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GRÁTIS Inclui Uma Cópia Completa da Revista TELE-satélite 01/2009

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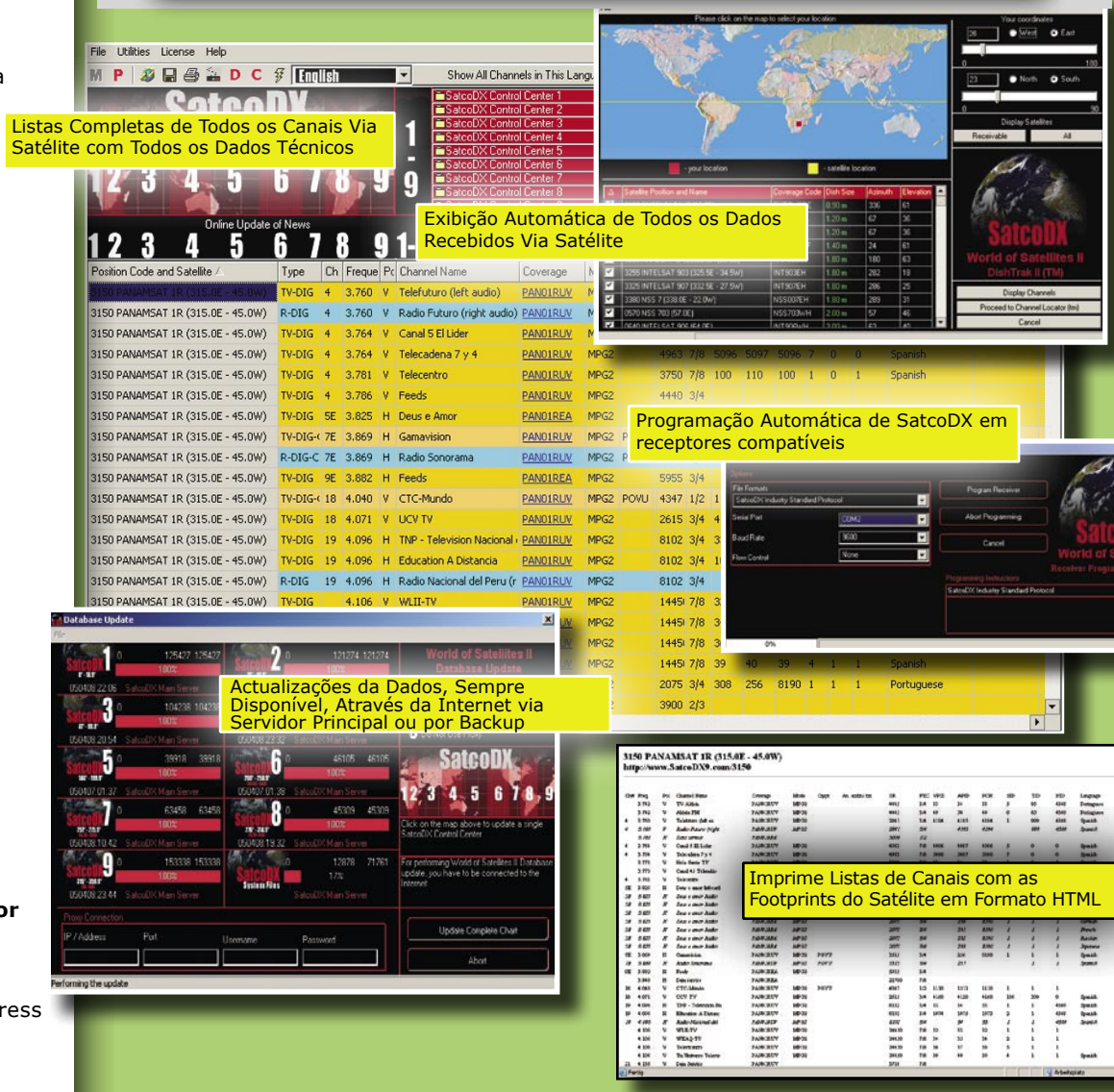

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Caros Leitores

Quando se trata da recepção por satélite de canais livres para o cidadão, a China tem sido desde há muito o último território inexplorado. Mas mesmo aí as coisas vão mudar este ano. A recepção por satélite Individual vai ser possível com a introdução do DTH na China, o que também significa que a tecnologia na recepção por satélite irá tocar num grande consumo deste mercado. No entanto a China decidiu lançar a sua própria nova norma digital: ABS-S. Nesta edição da revista TELE-satélite o leitor pode ler mais sobre seus aspectos técnicos.

Isto significa que a variedade de sistemas digitais normalizados ainda se encontra em ascensão. Lembro-me muito bem os debates acalorados que tivemos na TELE-satélite há muitos anos atrás, quando a televisão digital por satélite em MPEG-2 apareceu no horizonte. Muitos de nós receavam que no futuro haveria apenas uma única variedade de receptores, porque eram digitais ou não. E não é que estávamos enganados! Se olhar para a diversidade da tecnologia digital que supera de longe tudo o que poderia sonhar na era do analógico.

Ao mesmo tempo verificou-se que diferentes sistemas standards podem ser integrados num único produto. Por exemplo, esperamos que o nosso fenomenal receptor HDTV com DVB-S2 consiga com facilidade receber transmissões em DVB-S. Deste modo provavelmente não demorará muito tempo até que o novo sistema standard chinês ABS-S seja integrado bem como nos receptores DVB-S/S2. Estejam preparados para que as próximas embalagens de receptores apareçam no mercado com mais logótipos, trademarks e labels.

A maior vantagem do ABS-S é porque apresenta um desenvolvimento muito recente, o que significa que funciona melhor do que o DVB-S. É na realidade um luxo ser paciente e esperar. A Tecnologia não para de avançar e na maioria dos casos, um novo sistema também significa um passo à frente. De qualquer forma, será interessante observar como o ABS-S ganhará uma posição firme nos mercados fora da China. Em certa medida isso vai depender da política de licenciamento do ABS-S, mas principalmente estará pendente dos fabricantes chineses serem ou não capazes de reduzir ainda mais os custos agora que eles têm o gigantesco mercado chinês bem mesmo à sua porta. ABS-S poderá vir a ser um concorrente directo para com o sistema DVB-S2, que também vem com a promessa de reduzir os custos graças à sua menor largura de banda.

O lançamento do DTH na China, ao mesmo tempo abre o mercado chinês para todas as outras empresas de satélites – apesar de a maioria já estar a "jogar" na China. O certo é que o satélite vai dar um impulso adicional na indústria, o que em si é uma boa notícia no meio da actual desaceleração económica. Tudo isto vai mostrar que existe sempre espaço para a expansão – apenas tem de apresentar o produto certo no momento certo para o mercado correcto.

Atenciosamente,
Alexander Wiese

PS: O meu canal de rádio favorito deste mês é o Peppermint FM, um canal novo da Alemanha no Astra 19.2° Este (12,633 H) com muita música variada non-stop, não dá notícias e casualmente emite o som da auto-promoção com o slogan da estação 'Keep it fresh and young / Mantenha-se fresco e jovem. "

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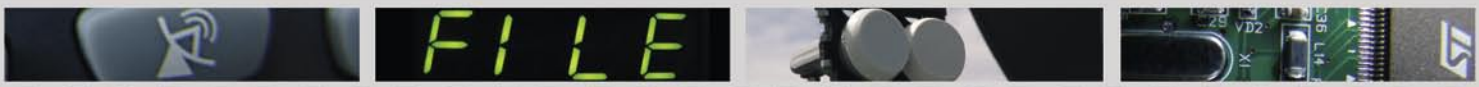

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Maintenance for your satellite installations

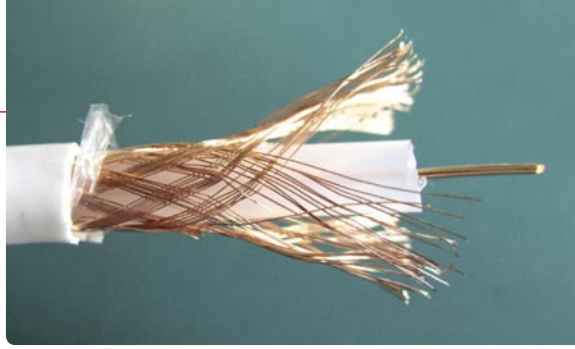
Heinz Koppitz

New receivers are always impressive with their promises of user-friendliness, ample editing options or blind scan. HDMI and more aspect settings may improve video output while a USB interface speeds up software updates and may even allow storing video streams on external media. Still, a perfectly running system does not require a new set-top box every other year. After all, most satellites are increasing their transmission power with every new generation of orbital birds and this means that even a slightly outdated system will work perfectly in most conditions. What is much more important is regular maintenance and exchanging faulty components so that viewing pleasure is guaranteed even in bad weather.

Exchanging the LNB

Many receptions systems were set up back in the analog age, some even at a time when only the lower band of the Ku band was being used. Do you already have a universal LNB? If not, you should rush to the store and get one right away – you'll be surprised how many additional transponders you'll be able to receive all of a sudden.

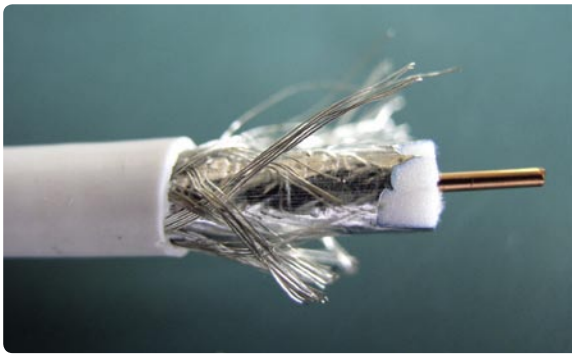
LNBs are subjected to the elements and their performance suffers if moisture cannot be kept outside. But even if your old LNB is still fine it's well worth getting a modern universal LNB with a low noise figure (0.3 dB), which will improve the threshold of your system in any case.



Single screening cable

Exchanging the coax cables

Old cables can be cracked, squeezed or otherwise damaged, which in most cases leads to problems that are hard to identify. There was a time when most coax cables came with only single screening, which is not enough to effectively block out interference from other signal sources. If that is the case we recommend replacing all cables and making sure new cables provide double screening – which comes as standard these days.



Double screening cable

Aligning the satellite antenna

Due to wind and corrosion your antenna may not be in perfect position after a few years. This is why you should look at the exact antenna alignment once a year. When doing this, the reception bar provided by the receiver when searching for signals or – depending on the receiver model – also in the info bar can be helpful for this job, even though this is of little use when the dish is on the rooftop and the receiver down in the living room. You might want to use a small satellite finder instead, which is attached to the antenna cable right at the LNB output and indicates the signal strength.

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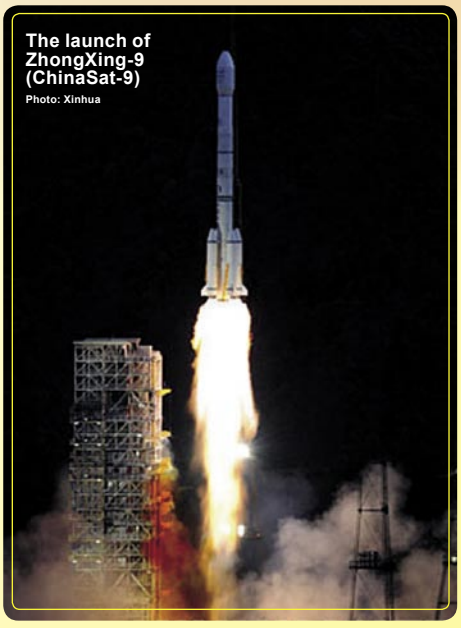
ABS-S: a competition for DVB-S/S2?

Jacek Pawlowski

When we were reading a press release about the launch of ZhongXing-9 (ChinaSat-9), it looked like something quite routine. It was nothing out of ordinary that China had another DTH satellite in service. It was the coding and modulation this satellite was supposed to use that surprised us. It was neither DVB-S nor DVB-S2. It was something brand new: ABS-S (Advanced Broadcast System-Satellite).

We all know that the standardization is a very useful practice. However, it happens really rarely that one thing is accepted all over the world. For example analog TV had always a few standards in different regions of the world (PAL, NTCS, SECAM, D2-MAC). Digital TV is no exception. Of course, our readers are very familiar with DVB-S and DVB-S2 standards but these are not the only ones in use. There is also the DSS (DirectTV) in North and South Americas and ISDB-S in Japan. They are similar to DVB but not identical. A receiver capable of receiving one standard is useless for the other. And now, China decided to establish the forth standard: ABS-S.



The launch of ZhongXing-9 (ChinaSat-9)
Photo: Xinhua

ZX 9 (Chinasat 9)
Photo: Thales Alenia Space

Why create yet another standard? One obvious reason is evading the expensive license fees. For example, every receiver manufacturer has to pay a royalty to MPEG organization for every unit sold. Taking into account the population of China, the amount of money involved is huge. We are speaking of 400 million households! China administration started a program called "Every Village" aimed at making digital satellite TV available to a large percentage of country population. This means that a receivers must be really cheap.

It all started back in June 2002 when the Chinese AVS standard has been published. AVS stands for Audio Video coding Standard. AVS compared to MPEG has some advantages. It has twice or three times the coding efficiency of the traditional MPEG-2 - so it is closer to H.264 (popularly called MPEG-4). However, the complexity of algorithms is lower than that of H.264. Thanks to that AVS requires less memory and occupies lower bandwidth. While H.264 is the video encoding standard only, the AVS deals with video, audio and media right management altogether. So it is a complete industry system for coding the source data.

ABS-S goes one step further. Similarly to DVB-S2 which is based on H.264 and MPEG-2, the ABS-S is based on AVS standard. ABS-S has bandwidth efficiency similar to that of DVB-S2 (ca. 30% more data can be sent compared with DVB-S in the same transmission channel). DVB-S2 efficiency is already close to the theoretical limit (Shannon limit) and apparently so is ABS-S. At the same time ABS-S is regarded as simpler from the technical point of view. This gives a better chance that a higher number of IC manufacturers can master this technology in relatively short time. DVB-S2 and H.264 are rather complex and not too many IC manufacturers offer compatible chips.

For example, ABS-S does not use BCH code, it can seamlessly combine fixed-rate modulation (CCM), variable bit-rate modulation (VCM) and adaptive coding modulation (ACM). It uses forward error coding where it is difficult to implement LDPC (low density parity check) and depending on application one can use different rate in 4 modulation modes: QPSK, 8PSK, 16APSK, 32APSK. There are more differences between ABS-S and DVB-S2 but they are all understandable only for the high-tech professionals.

At the moment, we do not have a credible independent assessment of the new standard. Will it be really almost as good as DVB-S2 while being cheaper and simpler to use and as Chinese sources claim? When we have such opportunity, we will perform such a test for you.

It can be interesting to watch what the world IC maker will do. Will they ignore the new standard and let the Chinese manufacturers monopolize the China market, or they will fight to offer their own implementation of ABS-S/AVS compatible chips? Will it be possible to create a universal chip suitable for both standards: DVB-S2 and ABS-S?

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Dizipia DS4H-9160
Grande e Melhor

Pode não ter o nome mais atraente, mas a DS4H-9160 do fabricante Coreano Dizipia faz uma afirmação que impõe com o seu tamanho e aparência. O receptor vem numa caixa de metal polido a preto e é maior do que a maioria com 43 centímetros de largura, 28 centímetros de profundidade e 6 centímetros de altura e a caixa robusta em metal significa que é o receptor é bastante pesado. O painel frontal polido tem um visor cintilante e nítido com informação do canal.

O controlo remoto também é maior do que o habitual, medindo 24x5cm. Para além de comandar o receptor pode ser programado para funcionar como comando de uma TV e foi rápido e fácil de configurar para a minha TV a partir dos códigos que vem na parte de trás do manual. Desta vez não foi necessário procurar na internet por um código adicional para fazer funcionar! O comando é de fácil compreensão e as teclas fazem um clique quando são pressionadas mas por outro lado não é preciso fazer muita pressão para fazer funcionar, enquanto outros comandos deste tipo não respondem com tanta facilidade. E para completar temos os botões STB ou TV que acendem quando são pressionados.

O painel frontal tem mais uma importante característica invulgar que é umas luzes vermelhas dentro de um quadrado. À primeira vista parecem que são apenas indicadores, mas são alguns botões e através deles podemos controlar a maioria das mais importantes funções do receptor. No lado direito do painel frontal temos uma tampa e podemos ver no interior dois slots CI e uma porta USB.

Na parte de trás temos praticamente todas as possibilidades de ligações que precisamos. As entradas da antena para cada um dos dois sintonizadores têm as saídas loop-through e o primeiro tunner pode fazer loop no segundo se apenas tiver um feed disponível. Dentro da embalagem vem incluído um cabo pequeno loop-through para fazer exactamente isso. Estão disponíveis para vídeo e áudio digital o HDMI e o S/PDIF, juntamente com as duas tradicionais ligações SCART, componente e vídeo composto e o RCA áudio estéreo. Temos também outra entrada para USB, assim como o RS232 e até mesmo uma porta Ethernet, embora não tenha informações no manual a explicar como se utiliza.

Instalação

Instalar o receptor é fácil através se utilizarmos a ajuda de uns simples gráficos do manual. Temos incluído imagens para cada uma das possíveis ligações e são explicadas as opções para cada uma delas. Qualquer ponto importante que possa causar confusão é explicado: se é utilizado apenas uma antena em conjunto com o cabo loop-throught, a comutação de canais durante a gravação está limi-

tado apenas aos canais do mesmo transponder. As duas entradas de LNB também podem ser configuradas para satélites diferentes, para que as duas antenas fixas independentes sejam também uma opção, isto também vai limitar o que podemos ver e gravar ao mesmo tempo.

A primeira vez que ligamos vamos directamente para o assistente de instalação e podemos configurar a hora local, o fuso horário e o idioma preferido. Temos poucos idiomas - para os menus no ecrã e as mensagens só estão disponíveis os Inglês, Alemão e Russo. Por estranho que pareça a lista padrão de idiomas para o áudio e as legendas são diferentes. A escolha aqui é entre o Inglês, Alemão ou Francês.

A seguir temos a procura de canais para podermos escolher e criar os satélites pretendidos pela primeira vez. São suportadas antenas Motorised DiSEqC e USALS. Temos o simples trabalho de dizer ao receptor que pretendemos uma determinada localização pela sua latitude e longitude e desta forma ele calcula as posições dos satélites seleccionado para receber.

A lista dos satélites pré-programada no receptor é muito impressionante - existem cerca de 170 satélites! Eu desafio o leitor a encontrar um que não esteja lá, mas no caso de existir ou se aparecer no futuro um satélite novo no céu, sabemos que os satélites podem ser editados, adicionados e removidos, conforme necessário. As frequências do transponder para os satélites parecem também estar actualizadas.

A procura de canais é boa e rápida, demorou apenas oito minutos a análise completa no ASTRA 2. Assim que os canais estão memorizados temos presente uma boa selecção de funções para permitir posterior edição e classificação.

O acesso à lista completa de canais é simples, apenas precisa premir a tecla "OK" quando está a ver na TV. Esta lista pode ser rapidamente organizada por ordem alfabética, por canais codificados /FTA, ou ficar no estado ori-

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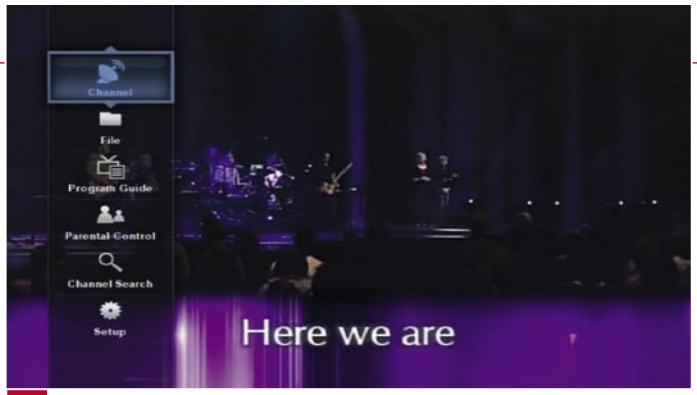

Menu principal

Informação do canal

ginal de arrumação pelo número do canal. Um simples pressionar na função "zoom", para ver a lista de canais a preencher todo o ecrã ou apenas a parte lateral esquerda, de modo a que consigamos também ver televisão ao mesmo tempo.

Todas as funções de edição e organização são acedidos a partir daqui, desta forma fica muito mais fácil do que ter de ir ao menu de edição. Caso seja necessário os canais podem ser deslocados para cima e para baixo da lista memorizada. As listas de Favoritos podem ser definidas ao seu gosto e pode facilmente adicionar e editar. Para que tem filhos menores existem duas opções para o controlo parental – grava uma password ou poderá simplesmente esconder completamente determinados canais até que a senha seja digitada. Para além disso pode limitar a visualização de uma simples lista de canais favoritos ou escolher uma determinada hora para que o receptor desligue-se sozinho - para impedir as crianças de ficarem o dia inteiro sentadas diante do televisor. A última opção existe para limitar os programas por classificação etária, embora dependa totalmente de quem está a transmitir poder ou não informar a classificação por ordem etária.

Disco rígido Funções

Como a transmissão HD difunde uma série de dados e é essencial uma grande velocidade de transferência dos dados, é utilizada uma interface SATA no receptor em vez do tradicional IDE. Infelizmente o nosso modelo de ensaio foi fornecido sem uma unidade interna instalada, de modo que pelo menos tivemos um pretexto para testar exaustivamente um disco rígido ligado numa das portas USB.

Não estava muito confiante, mas até uma unidade USB antiga ligada à porta USB traseira mostrou que estava enganado ao funcionar quase irrepreensível, incluindo gravação de canais em HD. No entanto como era de esperar foram poucas vezes em que a imagem se tornou um pouco desordenada. Mas mesmo assim foi possível, ou mesmo 100% perfeito, assistir a um canal em HD e gravar um outro canal na drive USB.

As unidades externas utilizam o sistema de arquivos FAT32, o que significa que podemos efectuar backup ou gravar no disco através de um computador e directamente. As pasta de arquivos do receptor são fáceis de aceder por alguém que já esteja habituado a utilizar um computador e esteja familiarizado com a estrutura de pastas e arquivos, e poderá até mesmo "..." voltar ao directório principal.

Tem a opção de poder escolher a função automática de apagar as gravações mais antigas, quando o espaço no disco se esgotar. Com este tipo de sistema, deixa de se preocupar de ter a indesejada perda de uma importante gravação. Felizmente, há uma opção útil para proteger determinadas gravações para que não sejam apagadas acidentalmente ou por utilizar a função de auto-excluir. O controlo parental de gravações também é fornecido através da protecção de uma password.

O Timeshifting também está disponível para a transmissão televisiva. Um simples premir do botão de pausa e é tudo o que precisa, logo de seguida fica disponível o controlo rewind e fast-forward. A função extra divide o programa gravado em segmentos como os capítulos de um DVD, e desta forma podemos procurar muito mais facilmente do que ter de visionar tudo o que se gravou. Vem programado de fábrica como intervalos de 30 minutos, mas pode ser alterado nas configurações até um máximo de duas horas.

Ficamos um pouco decepcionados por não ter qualquer tipo de função para editar. É sempre útil ter até mesmo alguns comandos básicos para editar e apagar os espaços publicitários numa gravação e é uma pena não terem uma previsão para solucionar esta função. Como amante do desporto eu também senti a falta da opção de reprodução em slow-motion que tenho por hábito usar.

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Uso diário

É relativamente fácil navegar entre os satélites, canais e menus do receptor, embora talvez não seja tão intuitivo como alguns outros receptores que temos visto. Por exemplo, mesmo depois de estar muito tempo a usar o receptor fiquei confuso com a existência de um botão "voltar" que na realidade não leva os menus de volta á posição anterior! O botão "menu" também não faz isso e eu tinha esperança que tivesse essa função. Por sua vez o botão "sair" executa isso pelo menos algumas vezes - noutras situações ele faz o que indica e sai completamente do menu de sistema.

A Qualidade da imagem é de grande importância nos receptores HD e felizmente a qualidade HD da Dizipia fica acima das expectativas. A definição standard das imagens também são de luxo ao visualizar numa resolução HD e isso também adiciona um pequeno extra na qualidade da imagem quando comparadas com o RGB Scart.

O controlo remoto tem um botão especial muito útil para mudar directamente a resolução. E aqui está uma ideia que foi retirada do mundo dos computadores. Assim que a resolução é alterada aparece uma janela no ecrã para confirmar que pode ver a imagem. Por defeito é "não" por isso se acabar por ter uma imagem que não consegue ver basta premir o botão OK e é revertido para a resolução anterior. Está disponível o modo progressivo e entrelaçado, que dá uma resolução de 480 a 1080 linhas.

Nos dias de hoje são habituais as transmissões em Widescreen e é bom saber que todas as opções estão aqui disponíveis. Para a visualização temos disponível os modos widescreen, ecrã 4:3, letterbox e o modo pan/scan. Ao reverso a difusão 4:3 numa tela de 16:9 pode ser intocadas com as barras negras de lado, ou ampliada se necessário. Temos ainda para isso um botão especial no controlo remoto também para alternar entre os modos 16:9 e 4:3.

Tive dificuldade em fazer o EPG funcionar, muito provavelmente porque requer um disco rígido interno para armazenar os seus dados. Supondo que vai funcionar correctamente num modelo de fábrica, este contém todas as funções habituais que precisamos e esperávamos ter. Os programas podem ser pré configurados para gravar ou simplesmente para visionar. Assim como na lista de canais, o botão azul pode ser usado para ampliar a EPG entre a exibição em tela inteira ou apenas uma parte dela. Nos programas para gravar poderemos colocar um controle parental no momento da gravação. O conhecido modo de

Menu de configuração do televisor

EPG

gravação por temporizador está também disponível.

Numa utilização regular o zapping de canais funcionou na perfeição e respondeu rapidamente ao comando, e sem esforço graças à implementação do widescreen. Uma vez escolhida a ordem desejada de visionamento dos canais, ou das listas de favoritos, a navegação em torno dos canais está facilitada. O botão "back" finalmente vai ser aqui necessário e se o pressionar vai voltar de novo para o último canal visualizado. O indispensável Teletexto também está disponível e temos botões especiais no controlo remoto que dá acesso a faixas de áudio e legendas.

Existe uma característica inovadora para possuidores de sistemas de televisão por assinatura. Como é habitual se um programa codificado for gravado, é necessário mais tarde ter um cartão válido para ver a gravação. No entanto, temos uma função "descodificar"especial. Numa hora predefinida de sua preferência, por exemplo enquanto estiver a dormir, o receptor vai pegar no arquivo gravado e remover a criptografia. Obviamente que ainda é necessário um cartão válido para descodificar as imagens.

Como existem duas portas USB, é fácil ter uma ligada a um disco rígido, que foi o que eu fiz, e ainda poder aceder a outros dispositivos a partir da

outra porta USB. Os ficheiros de áudio em MP3 podem ser reproduzidos e as imagens são espectaculares através de um grande ecrã em HD.

Resumindo

É um receptor competente com várias opções de ligação e como capacidades poderosas. Contudo depois de usarmos durante algum tempo começamos a sentir como funciona um carro desportivo com um limitador de velocidade no motor, achamos que o seu software não está totalmente desenvolvido como poderia ser. Navegar pelos menus por vezes se sente um pouco cansativo porque não se sente tão intuitivo como os outros PVRs disponíveis.

No entanto do lado positivo vemos que tem um bom desempenho na imagem, facilidade de alterar o tamanho da imagem. Com botões especiais para mudar o tipo de formato da imagem e inclui CI slots. Para uma utilização vulgar o PVR deverá fazer muito bem o seu trabalho.

Especialista no assunto

Andy Middleton
TELE-satellite
Test Center
UK

+

Twin tuners que funcionam com uma vasta gama de antenas e opções de ligações, controlo de descodificação, suporte total de widescreen e resoluções em HD.
Actualização de software e gravação para o PC via Ethernet
2 canais de gravação e reprodução de um arquivo gravado
Timeshifting imediato
32-bit true-color OSD
Menu operacional facilitado
Sistema Operacional Linux
Suporta resolução de vídeo 1080p

-

O menu não é dos sistemas mais intuitivos
Não tem a opção de edição de gravação

ENERGY
DIAGRAM

Mode	Apparent	Active	Factor
StandBy	12 W	3 W	0.25
Reception	45 W	25 W	0.55

Lista de arquivos gravados

Reprodução do arquivo gravado

TECHNIC
DATA

Manufacturer	Dizipia, Inc., 2nd Floor, Shinhan Bldg., 147-9 Garak-dong, Songpa-Gu, Seoul 138160, Korea
Tel	+82 (0)2 21 52 32 00
Fax	+82 (0)2 407 34 05
www	www.dizipia.com
email	info@dizipia.com
Model	DS4H-9160
Type	HDTV-Receiver with Scaler
Satellites	170+
SCPC compatible	Yes
USALS	Yes
DiSEqC	1.0/1.2/1.3
Scart connectors	2
Symbol rates	DVB-S: 1000-45000
DVB-S2	20000-30000 (QPSK)
DVB-S2	10000-30000 (8PSK)
Audio outputs	2 (left & right)
Video outputs	Composite, Component, HDMI
UHF output	No
0/12 volt output	No
Digital audio output	S/PDIF
EPG	Yes
C/Ku-band compatible	Yes
Power supply	100-250V AC, 50/60Hz

Topfield TF6000PVR ES

Uma Beleza por Dentro e por Fora

TELE SATELLITE AWARD & BROADBAND 02-03/2009

TOPFIELD TF6000PVR ES
Receptor fácil de usar e vocacionado para a família com upscaler integrado - ideal para usar num LCD ou Televisor plasma

A televisão de alta definição já começou o seu desfile triunfal da vitória. Mas se for dar uma espreitadela nas estatísticas da www.SatcoDX.com, fica decepcionado com a realidade: por exemplo o HOTBIRD na posição dos 13° Este possui um total de 29 canais HDTV em comparação com os 1355 canais SDTV em PAL. Existem muitas razões para isso, mas é principalmente de natureza financeira; a largura de banda custa dinheiro e se um provider já estiver oferecendo serviço em SDTV, apenas oferecem em HDTV como um recurso adicional. Para o cliente final isto significa que apesar de ter uma televisão moderna de ecrã plano ficará na mesma a assistir a canais SDTV provavelmente num televisor grande, e a qualidade da imagem pode não ser tão boa.

Energy Efficiency Rating eco friendly 0.57 power factor tested by TELE-satellite

Este problema foi reconhecido pelo fabricante sul-coreano Topfield. Eles apareceram com uma solução muito inteligente nos novos TF6000PVR ES. É muito parecido com o TF6000PVRE com excepção de uma característica decisiva: o upscaler.

O upscaler absorve o sinal de entrada e aumenta a sua resolução por interpolação dos pixels em falta, de tal ordem que já não existe qualquer varredura, algo que seria inevitável com a simples ampliação da resolução. Nós queríamos colocar o receptor através de um ensaio completo para ver até a que ponto este recurso realmente funciona.

Quando abrimos a embalagem percebemos que o TF6000PVR ES não é tão amplo como se esperava. Por outro lado o modelo anterior

TELE-satellite World www.TELE-satellite.com/...

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Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0903/bul/topfield.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0903/ces/topfield.pdf
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Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0903/hel/topfield.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0903/hrv/topfield.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0903/ita/topfield.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0903/mag/topfield.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0903/man/topfield.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0903/ned/topfield.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0903/pol/topfield.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0903/por/topfield.pdf
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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0903/sve/topfield.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0903/tur/topfield.pdf

Available online starting from 30 Jaunuary 2009

TF6000PVRE era compatível com os 43 centímetros de largura, o TF6000PVR ES tem apenas 38 centímetros de largura. Mas este modelo de menor dimensão não se afasta da sua poderosa elegância.

No centro do painel frontal temos um display VFD alfanumérico muito fácil de ler, de lado temos três botões para comandar o receptor, caso o controlo remoto esteja ausente. Foram colocados sob a forma de um círculo prateado quatro botões para controlar o volume e mudar de canal. E por fim temos o botão srandby em azul-incandescente que dá um certo estilo ao receptor.

Se abrirmos uma tampa do lado direito, podemos encontrar dois slots CI para recepção de PayTV. Funciona com todos os módulos tradicionais, Irdeto, Viaccess, Seca, Conax, Nagravision ou Cryptoworks e funciona em conjunto sem qualquer tipo de problemas. Tal como esperávamos o painel traseiro do TF6000PVR ES nos espanta com os vários tipos de opções de ligações no receptor. Para além da entrada IF e saída do looped-through dos dois sintonizadores, também vai encontrar uma saída HDMI, duas ligações Scart, três conectores RCA de vídeo e saída de áudio estéreo, uma saída S-Video, uma saída de áudio digital óptica, Um conector USB 2.0 e, por ultimo uma interface Ethernet. Embora não seja muito utilizado nos dias de hoje mas também está disponível uma interface RS-232 para ligar a um PC.

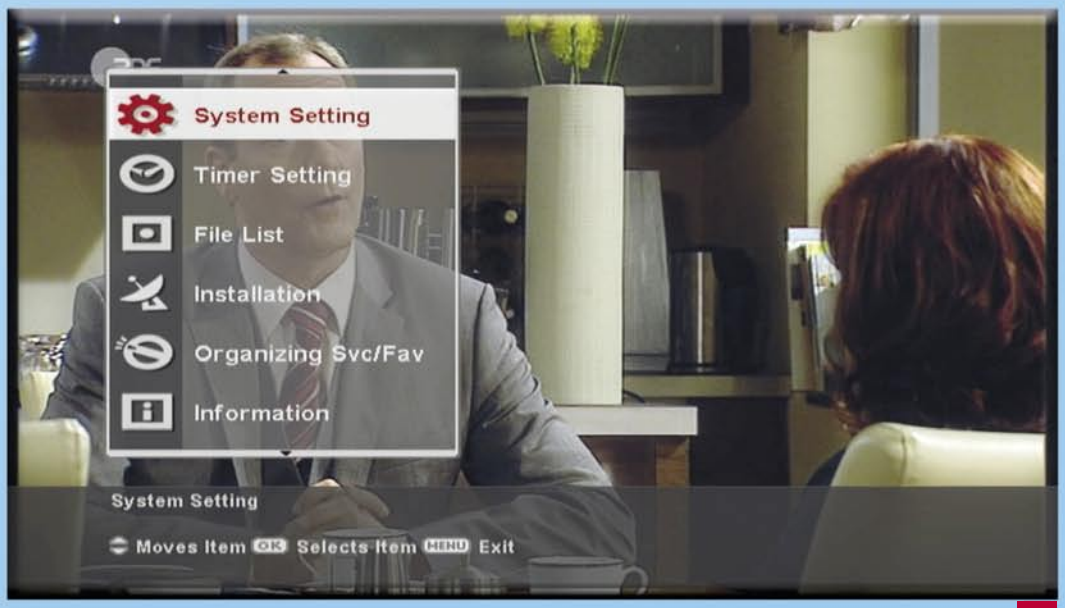
O controlo remoto adapta-se perfeitamente na mão e os botões são fáceis de aceder e compreender. Assim como gostamos do design deste receptor também tivemos a mesma opinião sobre o controlo remoto. Como era de esperar da Topfield, o manual do utilizador é de leitura fácil de compreender, devidamente ilustrado quando surge qualquer tipo de pergunta e resposta que poderá surgir durante a utilização do receptor. A solução é apresentada de forma rápida e descomplicada.

Uso diário

Assim que ligar o receptor pela primeira vez, o novo Topfield exibe o menu principal e o utilizador deve configurar o receptor para as suas necessidades específicas. Antes de utilizá-lo pela primeira vez deverá configurar para a(s) antena(s) instalada(s). Não tem assistente de instalação, mas na realidade ele não faz falta, uma vez que a estrutura do menu da Topfield está bem concebida, de tal ordem que até mesmo um principiante deverá ser capaz de encontrar o local com facilidade.

A primeira coisa a fazer será configurar o Idioma dos menus no menu de configurações. O TF6000PVR ES tem muito por onde escolher: Alemão, Inglês, Francês, Espanhol, Alemão, Árabe, Grego, Turco, Dinamarquês, Sueco, Norueguês, Neerlandês, Polaco, Persa, Espanhol, Finlandês, Búlgaro e Checo. Assim que terminar de configurar o idioma poderá prosseguir para o menu de configurações individuais.

Da mesma forma que qual-



O TF6000PVR ES tem um menu principal bem concebido

quer outro receptor de satélite, o TF6000PVR ES também pode acertar a hora automaticamente via satélite. Ao contrário de modelos concorrentes, a Topfield prevê uma série de diferentes possibilidades de configuração. Por exemplo, a fonte para configuração da hora poderá ser limitada a canais codificados ou até a transponders individuais. Infelizmente, este recurso é necessário considerar porque muitos providers, para alem das posições em DTH, não informam a hora correcta das suas transmissões, e por esta razão o receptor recebe informações erradas da hora. O mesmo acontece com a hora standard e a hora de Verão que podem ser activadas ou desactivadas ao premir um botão no comando, e fica resolvido o problema do ajuste no GMT. Evidentemente, que a hora e a data também pode se ajustado manualmente. O TF6000PVR ES funciona com um relógio de tempo-real - mantém a hora certa, mesmo depois de faltar a energia e, ao contrário de outros receptores, assim que voltar a ter energia o receptor inicia automaticamente as gravações temporizadas.

Felizmente que este receptor tem um upscaler integrado, o TF6000PVR ES é ideal para ligar a um televisor moderno de ecrã plano. Esta caixa tem uma saída HDMI integrada com o qual o receptor consegue ampliar a conversão do sinal de vídeo para 576p, 720p ou 1080i. Para que tudo fique ainda mais fácil, o utilizador poderá fazer estas alterações directamente de um botão especial no controlo remoto e sem ter que percorrer por várias páginas no menu.

Se mesmo assim pretender ligar o novo receptor da Topfield ao televisor através das saídas Scart, tem à sua disposição o RGB, CVBS, S-Video ou YUV. A imagem pode ser definida para apresentar em 4:3, assim como 16:9. Os modos de exibição adicionais estão disponíveis para que 4:3 seja visto numa TV de 16:9. O sistema PAL e NTSC são suportados e a mudança é feita automaticamente entre os dois, assim se estiver na Europa não vai ter problemas na recepção de canais dos Estados Unidos e vice-versa. E com a ajuda do upscaler integrado, também é possível ajustar o tamanho da imagem em +/- 20%, isto significa que vai ter um a imagem perfeita em qualquer tipo de Televisor.

Assim que tiverem feitas todas as definições, o receptor pode ser configurado para o sistema actual da antena. Os dois sintonizadores podem receber sinais por satélite distintos – isto é uma aplicação ideal - ou poderão compartilhar o mesmo cabo de entrada. A segunda variação tem restrições significativas sobre um sintonizador quando está a gravar um programa sobre o outro sintonizador. Estas restrições não existem se forem utilizados dois sinais por satélite independentes.

O novo Topfield vem com uma lista pré programada de 156 satélites europeus, asiáticos e americanos. Estão actualizadas na lista as posições mais conhecidas, embora não seja má ideia fazer uma revisão geral das posições inativas.

Ficamos admirados com as inúmeras possibilidades de configurações que obviamente podem ser criadas para cada satélite. Já tem vários LOF (Local Oscillator Frequency) com valores pré programados para escolher, mas se for necessário está disponível a entrada de LOF manualmente. Isto permite que utilize LNBs que não os habituais neste receptor. Todos os protocolos DiSEqC estão integrados a fim de poder receber várias posições via satélite. DiSEqC 1.0 permite a recepção de até quatro satélites, 1.1 pode ser utilizado em antenas multifoco até a 16 LNBs e inclui o 1.2 e 1.3 (USALS) para o controle de antenas motorizadas.

Depois de estes parâmetros estarem configurados, o próximo passo será encher a memória do receptor que tem uma capacidade de guardar até 5000 canais (Televisão 3500, Rádio 1500). Esta tarefa não pode ser feita apenas com uma varredura manual, mas com uma varredura automática e também com a ajuda dos dados do transponder pré programados. Há também um scan adicional para a entrada manual do PID. Tal como aconteceu com os outros scans, uma varredura de rede também pode ser limitada a canais FTA (livres) ou apenas a canais encriptados.

Foi também bastante impressionante a velocidade de varredora de canais: foi necessário apenas cerca de quatro minutos para digitalizar 100 + os transponders em teste do satélite. Não se esqueça de que o TF6000PVR ES não é uma receptor HDTV e, portanto não pode receber quaisquer sinais de DVB-S2 e/ou MPEG4/H2.64. No entanto o receptor recebe os sinais normais de SDTV e amplia para que consiga visualizar numa televisão moderna plasma ou de LCD com melhor qualidade de imagem.

Depois de digitalizar uma das maiores plataformas DTH por satélite, é altamente provável que a lista de canais seja

Sea Tel's market share... is currently around 75% globally." *- 2008 Comsys report*

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Sea Tel's logo has changed with the addition of Cobham's name, but Sea Tel's superior products and service remain the same. Along with the new logo and the recently released 2406 60cm antenna, Sea Tel is pleased to announce a smaller, lighter 60 cm Tx/Rx antenna system, the USAT 24, an Ultra Small Aperture Terminal. Plus the new ST14 TV-at-Sea antenna features an advanced pedestal assembly, made of durable nylon polyamide injection molding used on aircraft antennas. Tests reveal 1.3 dB more signal than competitors.
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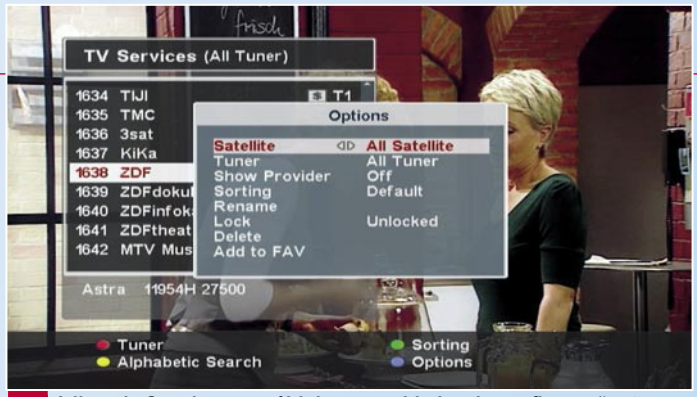
preenchida com centenas de canais que pode até não estar interessado em virtude, por exemplo estarem codificados, o que significa que não vai poder receber. Por razões como esta é demasiado importante ser capaz de editar a lista de canais e configurar da maneira que quiser. Durante anos a Topfield tem mostrado ao mundo como isto é feito e isso não é diferente com o TF6000PVR ES. Os canais dentro da lista de canais memorizada podem ser facilmente apagados, renomeados, movidos ou trancados com um código PIN para que as crianças não tenham acesso a canais impróprios. Podemos classificar a lista automática por diversas maneiras diferentes e os canais que mais apreciamos podem ser deslocados para qualquer local da lista de Favoritos, e desta forma sejam facilmente encontrados ao premir um botão no controlo remoto.

Agora que todos os ajustes foram feitos e a varredura de canais ficou concluída, o utilizador pode sair do menu principal e, em seguida o receptor apresenta o primeiro canal da lista. Com o aparecimento do primeiro canal, também aparece momentaneamente uma barra Informativa que fornece informações sobre o canal específico, seus parâmetros e características técnicas (DD-áudio, legendas, teletexto, criptografia, etc) além de informações sobre o programa que estamos a ver - pressupondo, evidentemente, que esses dados estejam disponíveis pelo fornecedor. Esta mesma informação também aparece na barra de comutação entre os canais.

Se pressionarmos o botão Info podemos ver a informação expansível do programa actualmente em execução. O botão Guia exibe um preview dos próximos programas, incluindo informações detalhadas da programação e esta informação pode ir até uma semana de antecedência. Uma vez mais, tudo isto pressupõe que o fornecedor coloca estes dados disponíveis. Existem também dois modos de exibição que pode escolher. É muito prático gravar um programa directamente do EPG. Tudo o que tem de fazer é carregar num botão para marcar o programa que pretende gravar.

Podemos aceder à lista de canais em detalhe do Topfield e para isso apenas precisa de pressionar o botão "OK". Existem vários métodos de filtragem e procura que permitem encontrar facilmente o canal que deseja. Se necessário pode escolher qual o sintonizador que vai receber um determinado canal ou a escolha pode ser feita pelo receptor. A última opção poderia ser a melhor escolha se no momento estiver activa uma gravação. O tempo de comutação entre os canais é muito bom, e se os dois canais não estiverem no mesmo transponder o tempo de mudança é razoável e demora cerca de um segundo.

Os sintonizadores utilizados pela Topfield têm um excelente ganho de sensibilidade e não têm qualquer problema com sinais mais fracos como os do



A lista de Canais com múltiplas capacidades de configurações

Informação EPG expansível

Barra informativa

ASTRA2D 28.2° Este ou o NILESAT 7° Oeste. Ficamos muito impressionados com a capacidade SCPC do receptor; conseguiu fixar os sinais no inicio dos 1,0 Ms/seg e a imagem foi exibida livre de interferências. Não vemos muitos receptores no nosso laboratório de ensaios que consigam dominar o difícil RSP dos canais do EUTELSAT SEASAT 36° Este com um symbolrate de apenas 1,0 Ms/ seg.

Existem ainda uma série de outras características adicionais que completa perfeitamente a imagem global do TF6000PVR ES. Incluído nessa lista temos as inúme-

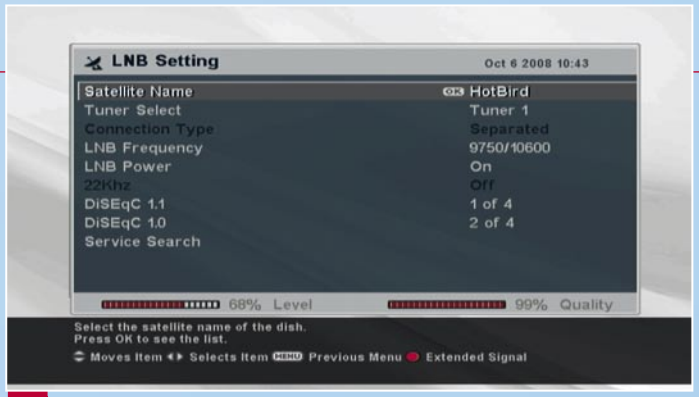
ras entradas disponíveis no temporizador programável (as capacidades de gravação disponível são: semanal, diário, dia-da-semana ou fim-de-semana), a incrível facilidade de utilização do receptor, o bom funcionamento do descodificador teletexto bem como uma variedade de extras práticos que também estão disponíveis.

A função RVP fica sem dúvida no topo da lista. O receptor pode gravar no disco rígido do sistema integrado dois canais ao mesmo tempo e depois ver sem qualquer degradação de qualidade. Se houver uma interrupção como um telefone a tocar, temos a função Time Shift que também serve para pausar um programa que esteja a ser exibido. O programa pode ser retomado a partir do local onde ele foi deixado. A função Bookmark é também uma característica muito prática. Durante a gravação podemos marcar um local específico com o premir de um botão, para que este ponto da gravação seja facilmente encontrado mais tarde.

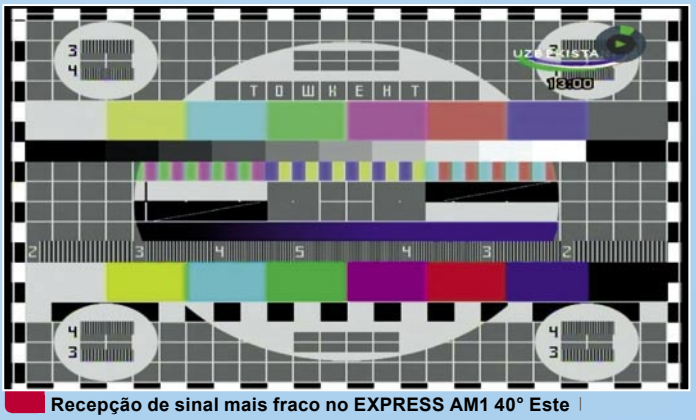
Na parte detrás do aparelho temos o USB 2.0 e uma interface de rede que permite ligar a um PC com Windows. As gravações podem ser transferidas para um PC através destas duas interfaces e a partir do PC, por exemplo podemos gravar para um DVD. Naturalmente que os dados podem ser transferidos no sentido oposto e se copiarmos arquivos em MP3 para o receptor podemos facilmente transformar o TF6000PVR ES num jukebox. Está disponível através da interface de rede a web e o servidor FTP, com a qual as gravações para o disco rígido podem ser geridas. Até mesmo as gravações programadas podem ser configuradas directamente num PC. Infelizmente, a velocidade de transferência de dados através da interface de rede funciona apenas a 1MB/sec. Isso significa que estaremos longas horas para baixar gravações de longa duração. As configurações da ligação à rede podem ser feitas a partir do modem DSL ou do router no TF6000PVR ES que suporta o protocolo DHCP.

A função Picture-in-picture do receptor também é bastante prática. Permite, por exemplo, mudar para um segundo canal ou um programa gravado anteriormente enquanto o canal principal está num intervalo comercial. O canal principal fica visível numa pequena janela. Quando terminar o intervalo comercial, pressiona num botão é tudo o que precisa para mudar o receptor de volta para o canal principal.

Uma das razões de sucesso dos receptores da Topfield é a interface TAP incluída que permite que os utilizadores façam o upload de expansão de software particular para o receptor. O TF6000PVR ES não é diferente. Este receptor tem semelhança com o hardware TF6000PVRE, e quase toda a TAP disponível também deverá funcionar neste novo TF6000PVR ES. Testamos o conhecido EPG TAP, 3PG, e descobrimos que o receptor funcionava perfeitamente e



Configurações do LNB



Recepção de sinal mais fraco no EXPRESS AM1 40° Este

complementa o excelente EPG da Topfield com uma série de funções adicionais, como a compilação automática de dados EPG numa hora específica, para que estes dados fiquem sempre disponíveis para o utilizador e por ordem.

A Topfield está constantemente a trabalhar para melhorar os seus receptores e, oferece uma série de maneiras para carregar uma actualização de software. Pode ser feito via satélite, através da Internet com a ajuda da interface de rede ou o arquivo deverá ser baixado do site da Topfield para um PC e depois transferidos através da interface USB para o receptor.

Por último, temos alguns comentários sobre o upscaler integrado. Queremos deixar claro que não deve ter um sinal fraco com uma baixa taxa de dados e transformá-lo numa super imagem HD. Isso seria pedir demasiado. Mas pode melhorar a imagem de tal ordem que o que se vê numa TV plasma ou LCD seria semelhante na qualidade ao que se obtém num televisor normal de 80 centímetros. Os outros canais que já transmitem em SD podem ser processados pelo Topfield upscaler, com uma taxa de dados mais elevada e proporcionar uma melhoria de imagem visível que o cliente final diria que se assemelha bastante à qualidade HD.

Especialista no assunto

Thomas Haring
TELE-satellite
Test Center
Austria

+

O TF6000PVR ES é um receptor digital fácil de manusear e amigo familiar. Graças à integração do upscaler, é ideal para utilizar num LCD ou televisor plasma e proporciona uma melhoria qualidade visível de imagem. As funções do PVR são bastante práticas e assim que usar pela primeira vez, nunca mais quer ficar sem ele.

-

A memória de apenas 5000 canais disponíveis é um pouco pequena. Um interruptor de energia no painel traseiro ficaria melhor.

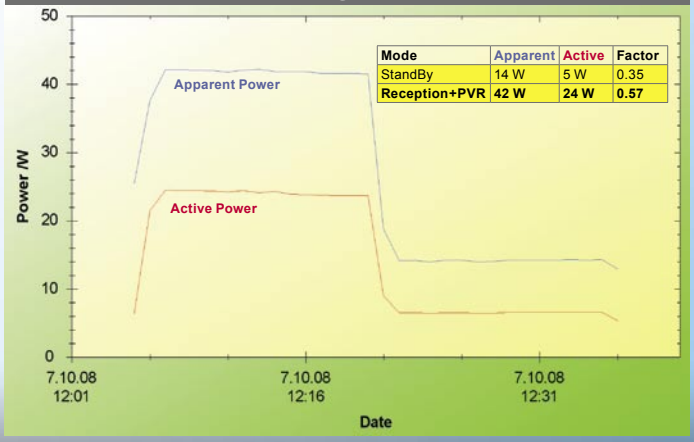
TECHNIC

DATA

Manufacturer	Topfield, Seongnam/Korea
Fax	+82-31-7082607
E-Mail	inquiry@topfield.co.kr
Model	TF6000PVR ES
Function	Digital SDTV DVB-S receiver with built in upscaler
Channel Memory	5000
Symbolrate	1-45 Ms/sec.
SCPC Compatible	yes (> 1000 Ms/s)
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
HDMI Output	yes
Scart Connector	2
Audio/Video Outputs	3 x RCA
Component Video Output	yes, via Scart
S-Video Output	yes
UHF Modulator	no
0/12 Volt Connector	no
Digital Audio Output	yes
EPG	yes
C/Ku-Band compatible	yes
PVR-Function	yes
USB 2.0 Connector	yes
Ethernet	yes
Power supply	90-250 VAC, 50/60 Hz
Dimensions	38/26.5/6cm
Weight	3.4kg

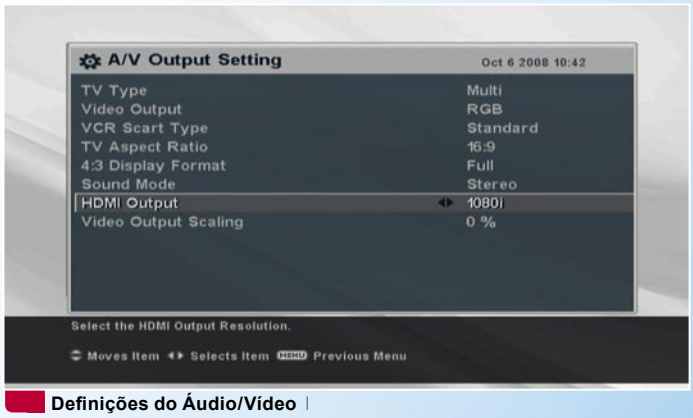
ENERGY

DIAGRAM

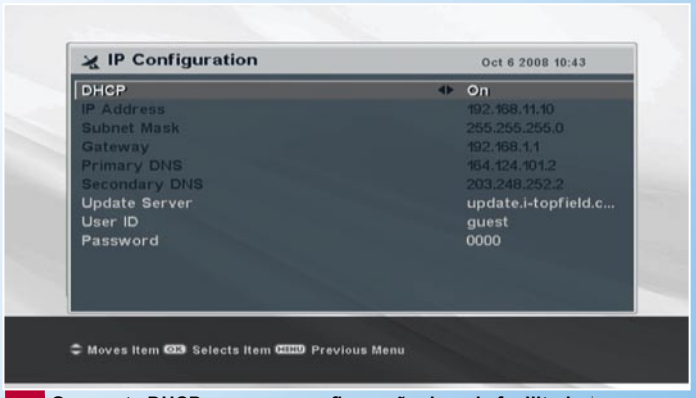


Primeiros 15 minutos: operação activa com a comutação de canais, gravação, reprodução, etc. Próximos 15 minutos: em Standby.

3PG TAP para expansão do EPG



Definições do Áudio/Vídeo



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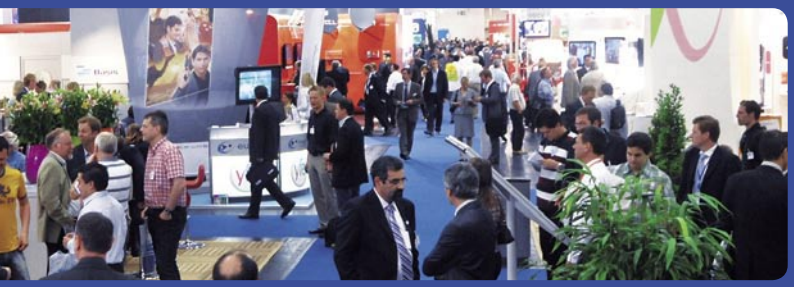

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Antena Parabólica em Malha de Apenas 4 Segmentos Fabricado pela Venus

O fabricante Indonésio PT Subur Semesta (bem conhecido pela sua marca Venus) desenvolveu um sistema de antena inovador em malha que é perfeitamente adequado para a recepção da banda C e pode ser montado muito facilmente graças ao seu design inteligente.

O que torna esta antena diferente foi a ideia de dividir os doze painéis da antena em apenas quatro segmentos. Portanto o que vai ter são quatro peças, cada uma composta por três painéis pré-fabricados. Naturalmente que isto acelera a montagem final.

O produto vem com um manual de montagem que nos vai ajudar a montar a antena e executar o processo no máximo de 30 minutos. E também está incluído

■ **A nova antena em malha modelo AL7210 (o diâmetro é de sete pés, daí esta denominação) da PT Subur Semesta é fabricado de acordo com um sistema inovador de produção e consiste de apenas quatro segmentos.**

TELE SATELLITE AWARD & BROADBAND 02-03/2009

ANTENA EM MALHA DA VENUS
sistema inovador de produção em malha antena com uma consistente alta qualidade

■ **Os quatro segmentos da antena em malha da PT Subur Semesta.**

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Available online starting from 30 January 2009

■ Todos os componentes e o guia de montagem incluído.

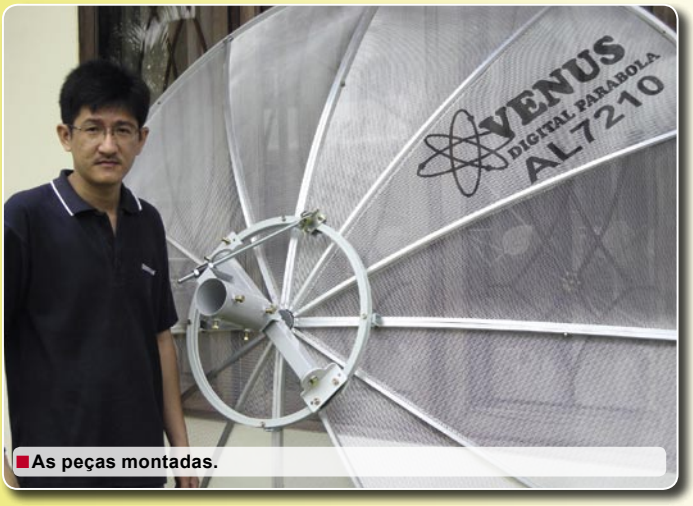
■ Um olhar sobre o centro do painel.

■ Montagem central do prato.

■ Todos os painéis adicionais são montados na placa central.

■ Pronto! Todos os quatro painéis estão ligados uns aos outros no centro e nas barras de ferro.

■ Apertar os parafusos.



■ As peças montadas.

■ Agora são montados os apoios do LNB.

Trimax SM-2500

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■O LNB 2-em-1 é montado como um interruptor duplo.

■O esquadro com nível de água, patenteado pela PT Subur Semesta facilita muito a afinação da antena.

todas as imagens da montagem! As peças individuais são de grande elevada qualidade: são totalmente galvanizadas, para que a nova antena Venus não seja só uma antena de montagem fácil e rápida, mas também uma que ofereça confiança ao longo de muitos anos. Nós testamos a antena de 2,1 metros (7 pés) que vai ser vendida principalmente na Indonésia. Devido à proximidade do país com o Equador o ângulo de elevação é muito elevado e é por isso que a antena fica montada num mastro. É exigido um ângulo de elevação próximo dos 90°, por isso mesmo qualquer outro tipo de montagem não poderá funcionar.

A antena em malha da PT Subur Semesta é praticamente na sua totalidade de fabrico automático, com apenas 15 por cento do total do processo a exigir trabalho manual. Isto garante que a qualidade permanece consistente e os painéis individuais têm a forma exacta de uma parabólica. Quando comparado com uma antena sólida, esta acaba por ficar em pé de igualdade. A propósito, a nova antena de malha vem com praticamente as mesmas braçadeiras e suportes do LNB de uma antena sólida da PT Subur Semesta.

Foi escolhido o tamanho de 7 pés (2,13 metros) pela PT Subur Semesta por uma razão: em algumas regiões da Indonésia uma antena de 6 pés não funciona, por sua vez uma com nove pés é um pouco grande demais para a maior parte do país. Por conclusão os sete pés são o tamanho perfeito para a Indonésia. Confessaram que isto é apenas o começo da PT Subur Semesta. Em primeiro lugar a empresa pretende obter uma base de operações no mercado doméstico, antes de começar a oferecer nesta gama outros tamanhos de antena também para o mercado internacional.

Tal como com todas as embalagens da PT Subur Semesta esta antena também vem com o nível de água patenteado pela Venus. Os imãs integrados garantem a simples possível colocação dos suportes numa posição horizontal ou vertical e o esquadro indica o Ângulo da antena. Isto tira os grandes problemas que temos para aperfeiçoar a posição da antena.

Foi utilizado um LNB 2-em-1 para montar na nossa recepção de ensaio. Esta montagem está disponível na PT Subur Semesta, e tambem um LNB 4-em-1 para quatro LNB´s da banda C. Esta montagem de LNB´s é o ideal para as condições na indonésia uma vez que permitem recepção de sinais de diversas posições com uma única antena. As opções disponíveis são: PALAPA C2 (113.0E) e TELKOM 1 (108.0E), ou ASIASAT 3S (105.5E) e ASIASAT 2 (100.5E), ou todos estes quatro ao mesmo tempo.

Alguns pequenos minutos depois da afinação da antena conseguimos receber televisão por satélite com a nova antena. O novo sistema da antena de malha da PT Subur Semesta é uma solução inovadora para a produção de uma antena consistente com painéis de alta qualidade. Tudo isto completa-se com uma montagem rápida e fácil de transportar.

■Está tudo instalado - agora temos que medir o sinal da recepção.

■Maravilha - o medidor de sinal apresenta uma recepção perfeita.

Especialista no assunto

Vincent Witjhun
TELE-satellite
Test Center
Indonesia

+

O novo sistema de antena em malha da PT Subur Semesta destaca-se graças à sua qualidade superior. A montagem é fácil graças ao seu design inteligente. A antena parabólica vem completa com todos os componentes necessários de forma que consiga ver televisão por satélite logo após a afinação do prato.

-

A antena não é compatível com a banda Ku.

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SPAUN Switch for USA

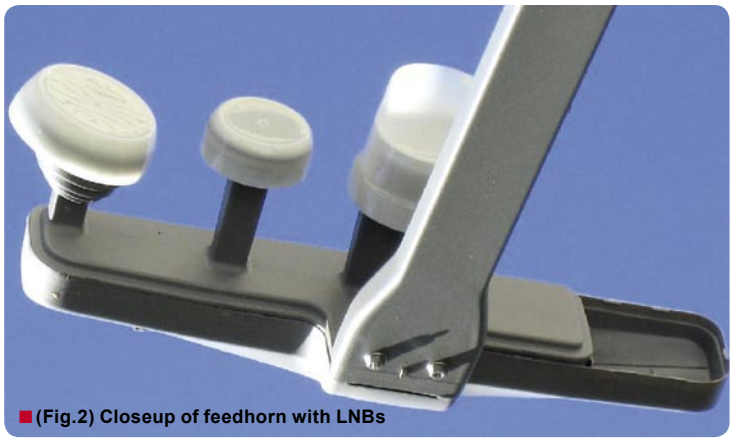
Ron Roessel

One of the biggest names in the industry when it comes to multiswitches would undoubtedly have to be SPAUN. The company was founded back in October of 1969 and began by manufacturing OEM terrestrial antenna products. In 1991 they began distributing products under their own name and shortly after that introduced the first multiswitch with an integrated power supply. Since then they have continuously added to their product line such that today their product range consists of more than 300 products.

Recently, SPAUN ventured into a new arena by beginning to offer amplifier and multiswitch products for use exclusively with the DirecTV satellite PayTV system in the USA. DirecTV itself came into existence back in 1990 and launched their satellite TV service in June of 1994. The idea of watching TV via satellite instead of through a cable TV service provider became so popular that in just a little over a year, they reached one million subscribers.

Just ten years later in 2005 they had 15 million subscribers! In 2007 DirecTV began offering 70 HD channels and today that number has risen to over 130 HD channels.

When you talk to most people about DirecTV, they think of DirecTV as merely a provider of TV services to individual end users such as those in private homes. But the truth is DirecTV also provides service to commercial end users such as hotels and larger apartment buildings. Here the commercial end users want to provide independent satellite TV signals to each hotel room or apartment with all of this being accomplished using a single satellite antenna. Obviously, a standard DirecTV satellite system can't handle this all by itself. That's where SPAUN comes in.



■ (Fig.2) Closeup of feedhorn with LNBs

■ (Fig.1) The DirecTV dish setup we used for this test

SPAUN has developed an array of products exclusively for the DirecTV SlimLine dish antenna system (Fig.1) that allows the incoming satellite signals from five different satellites to be distributed to multiple receivers using only the one satellite dish.

The SlimLine LNB (Fig.2) comes with four independent outputs that when used normally allow the end user to connect up to four satellite receivers. But when used with the SPAUN components, 16 and more receivers can be connected.If you take a close look at the SlimLine LNB, you might say to yourself: "I only see three LNB's". And, yes, that's exactly what it looks like from the outside. On the inside however, much more is going on.

The LNB on the right is actually three LNB's in one that together with the other

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two add up to five. Then you might be asking yourself how it can be possible to switch between five different satellites and at the same time give all the connected receivers access to these satellites independent of each other.

The answer again lies in the SlimLine LNB. A typical LNB converts the incoming satellite signals to the 950 to 2150 MHz range and sends these signals via the coax cable to the receiver.

The SlimLine LNB does this and more. A portion of the incoming satellite signals are converted to the 250 to 750 MHz range. Through a variety of switching functions within the LNB, the 250 to 750 MHz range and the 950 to 2150 MHz range are both made available at each of the four outputs on the SlimLine LNB. The receiver chooses which band and polarization it wants simply by switching between 14 or 18 volts and also whether or not to include a 22 KHz signal along with the proper voltage.

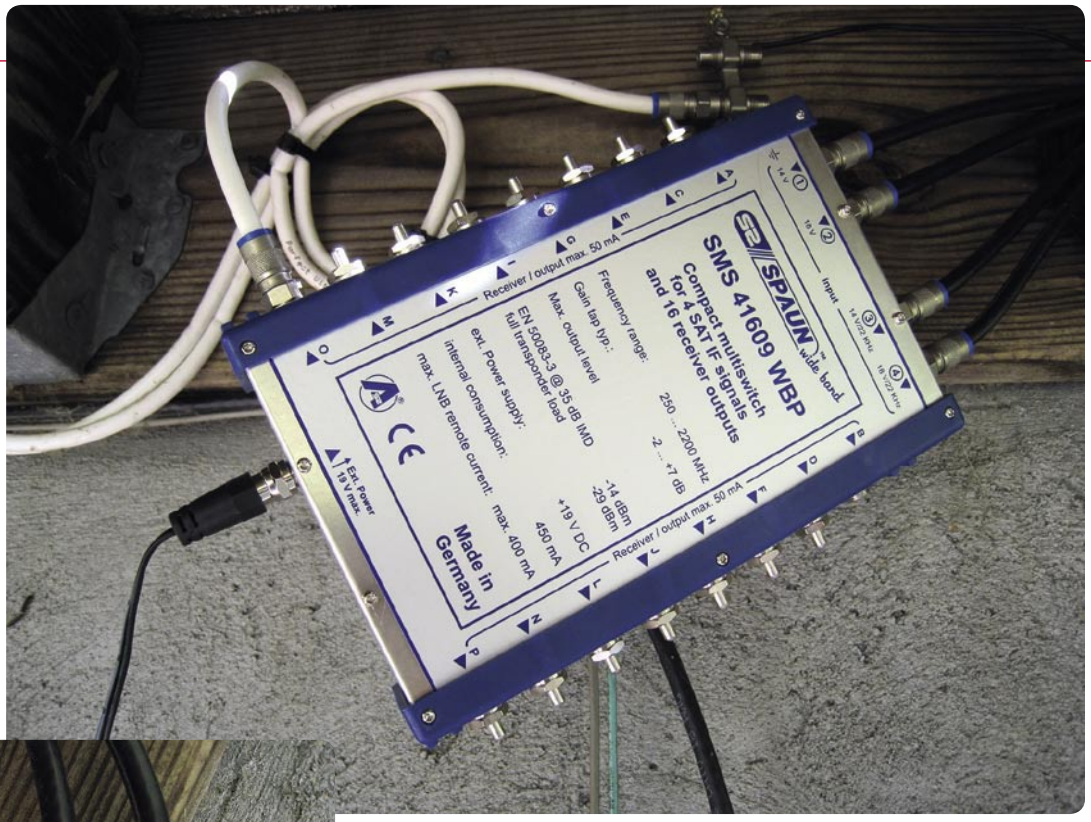
We found the idea of using SPAUN switches in this application very intriguing so we decided to taker a closer look at how all of this works. SPAUN was kind enough to provide us with a number of their components so that we could put them to the test.

■ (Fig.3) SPAUN SMS 41609 WBP switch

The number of receivers that need to be serviced will dictate what SPAUN components will be used and how many of them will be needed.

The most basic set up will provide outputs for as many as 16 receivers. For example, the four LNB outputs can be connected directly to a SPAUN SMS 41609 WBP switch (Fig.3) without the need for any amplifier components.

This switch already comes with the 16 outputs needed for 16 different receivers. Just plug the included power supply into a wall outlet, connect the other end into the proper jack on the switch and it's ready to go (Fig.4). All of the receivers connected to this switch can independently access all of the satellite signals from the DirecTV antenna as if each receiver were connected to its own antenna.



■ (Fig.4) We removed the 4 black colored coax cables from grounding block and connected them to the SPAUN SMS 41609 WBP. Now we could connect up to 16 receivers.

How does this work? The concept is actually quite simple. The receiver has the ability to send four different control signals (14V, 18V, 14V + 22 KHz and 18V + 22 KHz) via the coax cable to the LNB so that the proper band/polarization is selected. But when the SPAUN components are used in between the receiver and the SlimLine LNB, the sequence of events unfolds with a slight difference. The receiver still sends out the proper control signal depending on the band/polarization it wants to receive but, instead of this finding its way to the receiver, it ends up sent to a SPAUN multiswitch. As far as the receiver is concerned, it thinks it's connected to an LNB.

The SPAUN SMS 41609 WBP multiswitch comes with four satellite signal inputs. Each of these inputs sends its own unique control signal to the SlimLine LNB:

Input 1 – 14V
Input 2 – 18V
Input 3 – 14V + 22 KHz
Input 4 – 18V + 22 KHz

In this way, all of the available satellite IF bands from the SlimLine LNB are delivered to the SMS 41609 WBP multiswitch at the same time. The switch then routes the desired band/polarization to the connected receivers based on the control signals received by the switch from each of the receivers.

As mentioned earlier, one of these bands is the 250 to 750 MHz frequency band. Depending on the DirecTV receiver model, an internal or external BBC (base band converter) module is used to upconvert this frequency band to the standard satellite IF band so that the receiver can access these signals.

If the satellite system to be installed involves the use of more than 16 receivers, then additional multiswitches need to be used.

In some cases, this system must also be capable of handling terrestrial TV signals as well. The SPAUN SMS 41609 WBP multiswitch does not have a terrestrial input so for applications like this the GMS 51609 WBP can be used. Also, now that we are dealing with more than one multiswitch, it becomes necessary to include signal amplifiers

and signal taps to the SPAUN set up as well.

For the first part of our test we wanted to set a baseline measurement from which a comparison could be made when the SPAUN components were added. So, before any SPAUN components were put in place, we measured and recorded all the active transponders on the five satellites using the signal strength display that is included in the DirecTV receiver setup menu.

For the second part of our test we used the following SPAUN components:

1xGBK 5500 WBP Wideband Launch Amplifier

1xGTS 525 WB Penta Splitter

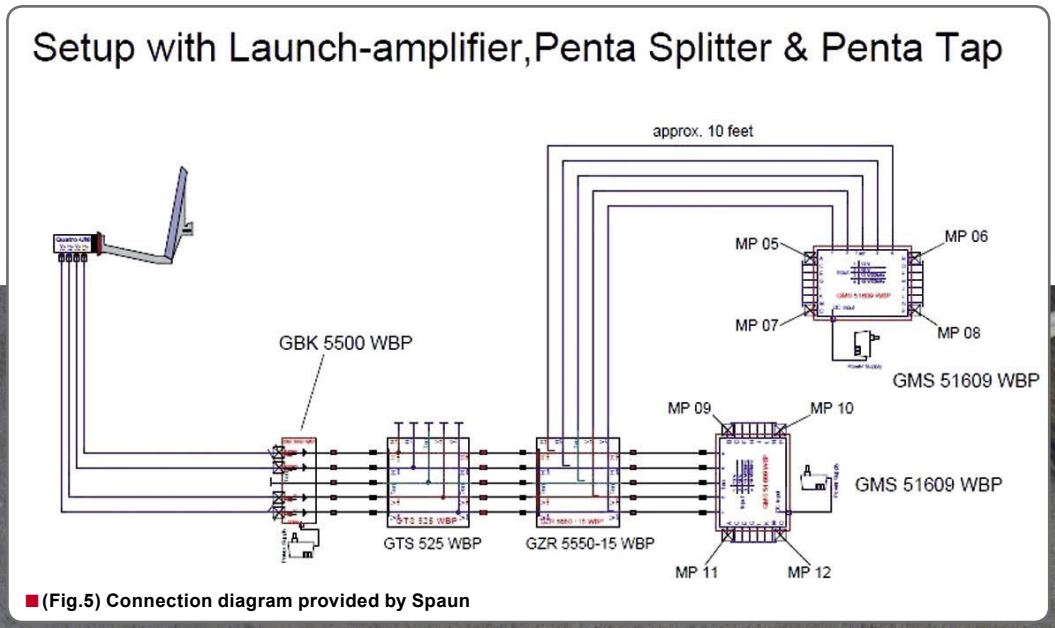
1xGZR 5550/15 WB Penta Tap with Directional Coupler

2xGMS 51609 WBP Compact 16-Output Multiswitch

These components were connected to each other as shown in the diagram in Fig.5. The actual connected components can be seen in Fig.6. In the normal setup, the four cables from the SlimLine LNB were routed to a grounding block (Fig.7) at a location outside of the house just before the cables went into the house. This was a convenient point to connect the SPAUN components.

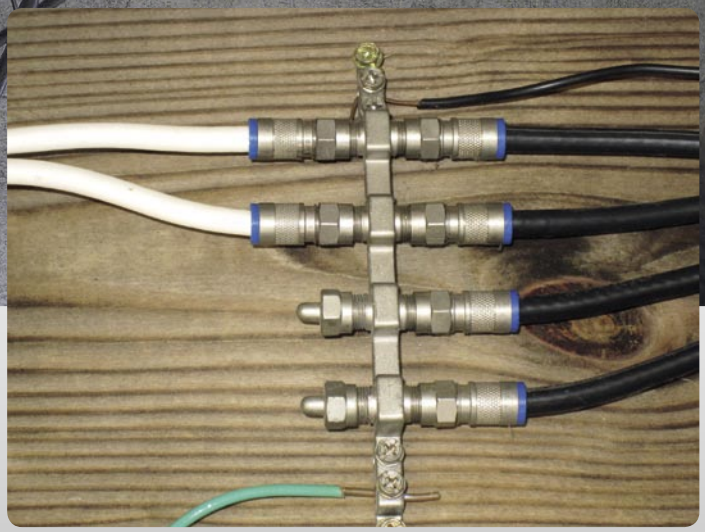
The four IF cables were removed from the grounding block and connected to the four inputs on the SPAUN Launch Amplifier. This particular setup has the capability to provide independent satellite signal outputs for up to 32 receivers.

For the purpose of our tests we opted to measure the outputs at the eight Measuring Points (MP) highlighted in Fig.5. The unused outputs were terminated with 75



■ (Fig.5) Connection diagram provided by Spaun

■ (Fig.6) Our actual setup for this test. Now up to 32 receivers could be connected



■ Grounding block conveniently located for us to change the cables: the black colored cables are the ones coming from dish.

(Fig.8) DirecTV Satellite at 101 west									
Transponder#	Normal	MP05	MP06	MP07	MP08	MP09	MP10	MP11	MP12
1	96	96	96	94	96	89	89	89	85
2	96	92	92	87	92	74	72	74	72
3	96	94	94	96	96	87	87	85	87
4	96	94	96	94	94	89	87	89	89
5	94	96	96	94	94	85	85	85	87
6	100	98	98	98	98	94	94	94	94
7	96	94	94	94	94	89	89	89	89
8	100	98	98	98	98	94	94	94	92
9	96	94	94	94	94	85	85	85	87
10	98	94	90	94	94	74	74	74	72
11	96	96	96	94	94	87	89	87	87
12	96	96	96	94	96	87	87	87	87
13	96	94	94	94	94	81	83	83	83
14	100	98	98	98	98	85	85	87	83
15	94	94	94	94	92	72	74	72	72
16	100	98	98	98	98	78	76	78	74
17	94	94	92	94	89	65	67	67	67
18	100	100	100	100	100	94	94	94	92
19	92	94	94	94	94	58	63	63	61
20	89	89	87	87	87	49	49	56	50
21	96	94	94	94	94	56	60	63	60
22	98	96	96	96	96	52	50	54	49
23	96	94	94	92	94	70	72	72	70
24	98	94	94	94	94	60	58	61	54
25	94	94	94	96	96	69	70	70	69
26	98	94	94	94	94	58	58	58	52
27	94	94	94	94	94	63	65	65	63
28	0	0	0	0	0	0	0	0	0
29	96	94	94	94	94	70	72	72	72
30	100	96	96	96	96	72	72	72	70
31	90	90	90	92	92	74	76	74	74
32	100	98	96	96	98	78	78	78	74

(Fig.9) DirecTV Satellite at 110 west									
Transponder #	Normal	MP05	MP06	MP07	MP08	MP09	MP10	MP11	MP12
...									
9	96	94	94	94	94	83	81	78	78
...									
11	94	92	94	94	90	78	76	74	74
...									
13	96	96	96	96	96	89	89	85	85
...									

(Fig.10) DirecTV Satellite at 119 west									
Transponder #	Normal	MP05	MP06	MP07	MP08	MP09	MP10	MP11	MP12
...									
22	92	94	96	94	96	74	72	67	65
23	100	100	100	100	100	94	94	94	94
24	94	89	94	92	89	76	74	72	67
25	98	98	98	98	98	90	92	92	94
26	96	96	96	96	96	76	74	69	67
27	98	98	98	98	98	89	90	89	92
28	96	94	94	94	94	72	69	63	63
29	100	98	98	96	98	94	96	94	96
30	96	96	96	96	94	89	87	85	83
31	96	96	96	96	96	94	94	94	94
32	98	98	98	98	98	94	94	92	90

(Fig.11) DirecTV Satellite at 99a west									
Transponder #	Normal	MP05	MP06	MP07	MP08	MP09	MP10	MP11	MP12
1	94	67	69	72	70	0	20	0	20
2	94	87	87	87	87	70	70	69	67
3	92	72	72	74	72	27	36	27	34
4	92	87	87	87	87	72	72	72	72
5	94	81	81	83	81	45	52	45	52
6	94	87	87	87	87	72	72	72	70
7	92	83	83	85	85	56	61	54	60
8	92	87	87	87	85	67	67	65	63
9	94	89	89	89	89	67	72	67	72
10	94	87	87	87	87	65	63	63	63
11	92	87	87	89	89	70	72	70	72
12	92	85	85	85	85	60	60	58	58
13	96	94	94	94	96	76	78	76	78
14	94	87	89	87	87	65	65	63	61
...									

(Fig.12) DirecTV Satellite at 99b west									
Transponder #	Normal	MP05	MP06	MP07	MP08	MP09	MP10	MP11	MP12
1	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0
...									
15	52	58	54	60	58	47	47	52	49
16	98	96	96	96	96	87	87	87	85
17	72	72	72	69	72	58	60	56	56
18	81	80	81	78	80	65	65	65	63
19	0	0	0	0	0	0	0	0	0
20	100	98	98	98	98	94	94	94	94
21	74	70	70	70	72	60	61	60	61
22	76	72	72	72	74	61	60	60	60
23	40	43	34	38	38	36	34	34	34
24	40	43	36	41	41	41	34	38	34
...									

Ohm terminations. The MP's were also terminated with 75-Ohm terminations when they were not connected to a receiver.

As with the first part of the test, all the active transponders for the five satellites were measured and recorded for each of the MP's (MP05 to MP12) using the same DirecTV receiver menu display. All of the collected data was organized and tabulated in seven different tables (one for each satellite) so that each MP output could easily be compared with the other outputs as well as with the results of the first part of the test. These results can be seen in Fig.8 thru 14.

Looking closely at each of the tables you can see that the measured signal strengths at MP05 to MP08 compared very nicely to the normal setup. In fact there was very little difference between any of the measurements and in some cases there was no difference at all. And as far as watching TV goes, all of the channels available with the normal setup (SD and HD) were also available at the four MP outputs.

There was, however, some differences between the measured signal strengths at MP09 to MP12 and the normal setup. In this case the measured signal strengths were somewhat lower at these four MP's than those of the normal setup. Although the signal strengths were lower, it did not interfere with any of the available TV channels. All of the available TV channels (SD and HD) could be viewed through any of the four MP outputs.

Conclusion

So, is the number of receiver outputs using these SPAUN components limited to 32? Absolutely not. If you need more than 32 outputs for your specific DirecTV setup, simply add additional SPAUN components! The possibilities are endless. In the end all of the SPAUN components functioned exactly as they should. Does this surprise you?

It shouldn't. SPAUN has been around since 1969 and in that time has built up quite a bit of experience when it comes to manufacturing satellite components. They make quality products that fully live up to expectations.

(Fig.13) DirecTV Satellite at 103a west									
Transponder #	Normal	MP05	MP06	MP07	MP08	MP09	MP10	MP11	MP12
1	100	100	100	100	100	98	98	98	100
2	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0
5	100	100	100	100	100	0	100	100	0
6	0	0	0	0	0	0	0	0	0
...									
15	92	89	89	90	90	0	85	87	89
16	96	94	94	94	94	83	83	81	81
17	0	0	0	0	0	0	0	0	0
18	98	98	0	98	98	94	94	96	0
19	94	94	94	94	96	85	85	97	87
20	100	98	98	96	98	90	89	97	87
21	76	76	76	76	76	70	69	70	70
22	0	0	0	0	0	0	0	0	0
23	83	80	81	81	81	76	76	78	76
24	100	100	100	100	100	96	96	96	96
...									

(Fig.14) DirecTV Satellite at 103b west									
Transponder #	Normal	MP05	MP06	MP07	MP08	MP09	MP10	MP11	MP12
1	94	94	94	94	94	81	85	83	85
2	94	90	90	90	90	0	76	69	72
3	94	92	92	92	92	78	81	78	81
4	92	89	89	89	89	54	78	72	74
5	92	92	92	92	92	80	83	81	83
6	92	89	89	89	89	74	78	74	76
7	92	90	90	90	90	78	81	80	83
8	94	89	89	89	89	74	76	72	72
9	92	92	92	92	92	78	80	78	81
10	90	87	87	87	87	72	74	70	72
11	94	92	92	92	92	78	81	81	83
12	94	89	89	89	89	76	76	72	74
13	94	92	92	92	92	81	81	81	83
14	92	89	89	89	89	74	76	72	72
...									

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TOPFIELD TF6000PVR ES
Easy to use family oriented receiver with built-in upscaler – ideal for use on LCD or plasma TVs

Manufacturer	Topfield
Website	www.topfield.co.kr
Function	HDTV PVR Satellite Receiver with Scaler
DVB-S2/LAN	• / •
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 02-03/2009

DIZIPIA DS4H-9160
A competent receiver with lots of connection options and powerful capabilities

Manufacturer	Dizipia
Website	www.dizipia.com
Function	HDTV Satellite Receiver with Scaler
DVB-S2/LAN	• / •
Channel Memory	!
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 12-01/2009

JIUZHOU DTS6600
A brilliant blend of ease of use and great functions

Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Digital PVR Satellite Receiver for SDTV/HDTV
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 12-01/2009

OPENSAT XT-9500 HD
Style and substance in a single package

Manufacturer	ABC BIZNIS
Website	www.opensat.info
Function	HDTV Satellite Receiver with two CI slots
DVB-S2/LAN	• / —
Channel Memory	!
DiSEqC	1.2
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 12-01/2009

TEVII S650 – DVB-S2 USB BOX
Compact HDTV receiver for PC or laptop computer with comprehensive software

Manufacturer	TeVii Technology
Website	www.tevii.com
Function	USB box for the reception of SDTV and HDTV,radio and data on the PC
DVB-S2/LAN	• / —
Channel Memory	unlimited
DiSEqC	1.0, 1.1, 1.2, 1.3
S-Video/HDMI	— / —
Scart/Digital Audio	— / —

TELE SATELLITE AWARD & BROADBAND 12-01/2009

AB IPBOX 900HD
Perfect HD receiver both for a family as for the satellite enthusiast

Manufacturer	AB-COM
Website	www.abcom.sk
Function	Digital Linux-based HDTV PVR receiver for DVB-S, DVB-S2, DVB-C and DVB-T
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 10-11/2008

IMPERIAL SATBOX HD
Perfect HDTV Reproduction with Ease of Use and Extraordinary Display

Manufacturer	DVB-Shop
Website	www.dvbshop.net
Function	HDTV Satellite Receiver
DVB-S2/LAN	• / •
Channel Memory	7000
DiSEqC	1.0 / 1.2
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 10-11/2008

TOPFIELD TF7700HSCI
A solidly built SDTV and HDTV receiver that includes a variety of very practical features

Manufacturer	Topfield
Website	www.topfield.co.kr
Function	HDTV PVR Satellite Receiver
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 10-11/2008

SONICVIEW SV-360 ELITE PVR
A family-friendly receiver and easiest to use with a multitude of features

Manufacturer	Sonicview
Website	www.sonicviewusa.com
Function	Digital Satellite PVR Receiver with two tuners
DVB-S2/LAN	— / —
Channel Memory	6000
DiSEqC	1.0 / 1.1 / 1.2
S-Video/HDMI	• / —
Scart/Digital Audio	— / •

TELE SATELLITE AWARD & BROADBAND 10-11/2008

VENUS NEW MILLENNIUM II-EP
Easy to use receiver for big motorized dishes at an economic price

Manufacturer	PT. Subur Semesta
Website	www.subursmt.com
Function	Digital Satellite Receiver for motorized dishes
DVB-S2/LAN	— / —
Channel Memory	4000
DiSEqC	1.2
S-Video/HDMI	— / —
Scart/Digital Audio	— / —

TELE SATELLITE AWARD & BROADBAND 08-09/2008

ABCOM IPBOX 9000 HD PLUS

A huge range of connection options make this box a true all-rounder – yet it remains easy to use as a family receiver.

Manufacturer	ABCom
Website	www.abipbox.com
Function	HDTV PVR for DVB-S, DVB-S2, DVB-C and DVB-T
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 08-09/2008

IMPERIAL DB 1 CI HDMI

Practical and user-friendly interface – the perfect match for satellite radio listeners and DXers

Distributor	DVBShop
Website	www.dvbshop.net
Function	Digital Satellite Receiver with CI-Slot
DVB-S2/LAN	— / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 06-07/2008

ARION AF9400PVR HDMI

A solid and easy to use receiver that with its Scaler can present satellite channels in excellent quality.

Manufacturer	Arion, South Korea
Website	www.arion.co.kr/global
Function	Digital Satellite PVR Receiver with built-in Scaler
DVB-S2/LAN	• / —
Channel Memory	8000
DiSEqC	1.0 / 1.1 /1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 04-05/2008

OPENSAT X9000HDCI

Fasten your seatbelt: super fast channel zapping combined with superb audio and video quality in SD and HD

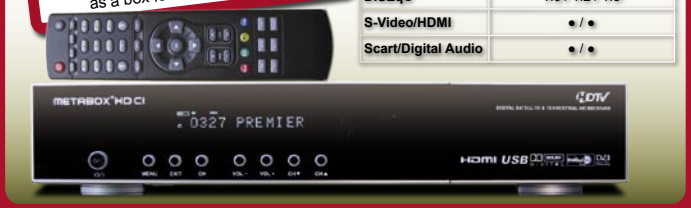
Manufacturer	ABC BIZNIS
Website	www.opensat.info
Function	DVB-S/S2 MPEG2/4 HD Receiver with single tuner
DVB-S2/LAN	• / —
Channel Memory	4000
DiSEqC	1.0 / 1.2
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 04-05/2008

METABOX HD COMBO CI

HD all-rounder for satellite and terrestrial reception with perfect usability – great as a box for the whole family

Manufacturer	Metamultimedia
Website	www.metamultimedia.net
Function	HDTV Receiver for DVB-S, DVB-S2 and DVB-T
DVB-S2/LAN	• / —
Channel Memory	10000
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •



TELE SATELLITE AWARD & BROADBAND 04-05/2008

NANOXX 9500HD

Small enclosure, superbly crisp picture, extremly fast channel search, and connection for HDD

Manufacturer	NanoXX
Website	www.nanoxx.info
Function	Digital HDTV PVR Receiver
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 04-05/2008

TOPFIELD TF7720HSIR

Ideal HDTV Receiver for FTA and Irdeto encrypted channels

Manufacturer	Topfield
Website	www.topfield.co.kr
Function	DVB-S, DVB-S2 HDTV Receiver with Irdeto CA
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 02-03/2008

TOPFIELD TF7700 HDPVR

Fully capable twin receiver with proven HDTV technology and outstanding picture quality.

Manufacturer	Topfield
Website	www.topfield.co.kr
Function	Digital DVB-S, DVB-S2 HD-PVR Receiver with ethernet connection
DVB-S2/LAN	• / •
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 02-03/2008

AB IPBOX 350PRIME PVR

A Linux-based Receiver as Powerful as Never Before

Manufacturer	AB-COM
Website	www.abcom.sk
Function	Linux-based receiver for terrestrial, cable and satellite DVB reception
DVB-S2/LAN	— / •
Channel Memory	4000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / —
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND 02-03/2008

NANOXX 9600 IP

Perfectly working CA receiver with smart use of network interface

Manufacturer	NanoXX
Website	www.nanoxx.info
Function	Digital CA satellite receiver with PVR functionality via network
DVB-S2/LAN	— / •
Channel Memory	6000
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	— / —
Scart/Digital Audio	• / •

O caminho da Arion

Há cerca de um ano atrás a TELE-satélite publicou um relatório destacando o sucesso do fabricante de receptores de alta qualidade da Arion, com sede em Anyang, um dos subúrbios a sul de Seul. Desta vez fomos visitar para descobrir como a Arion conseguiu seguir o seu percurso através do caminho percorrido o ano passado e quais são os planos de expansão para o roteiro de 2009.

Encontramos o Gerente sênior de Marketing, Sam Chang, num edifício novo não muito longe das antigas sedes. Ele actualiza os acontecimentos: "Fomos deslocalizados para este lugar, porque aqui podemos oferecer aos nossos colaboradores melhores condições de trabalho." Arion tem actualmente um quadro de pessoal composto por 80 trabalhadores, 50 dos quais são engenheiros que trabalham em R&D no centro da cidade Anyang, Coreia. "A principal indústria de receptores Arion tem lugar no sul da China." Explica Sam Chang.

O Gestor de Marketing Joey Lee acrescenta algumas informações geográficas: "30 por cento dos nossos produtos vão para a Índia, os outros 30 por cento são enviados para a América do Sul e os restantes 40 por cento são distribuídos

TELE-satellite World www.TELE-satellite.com/...

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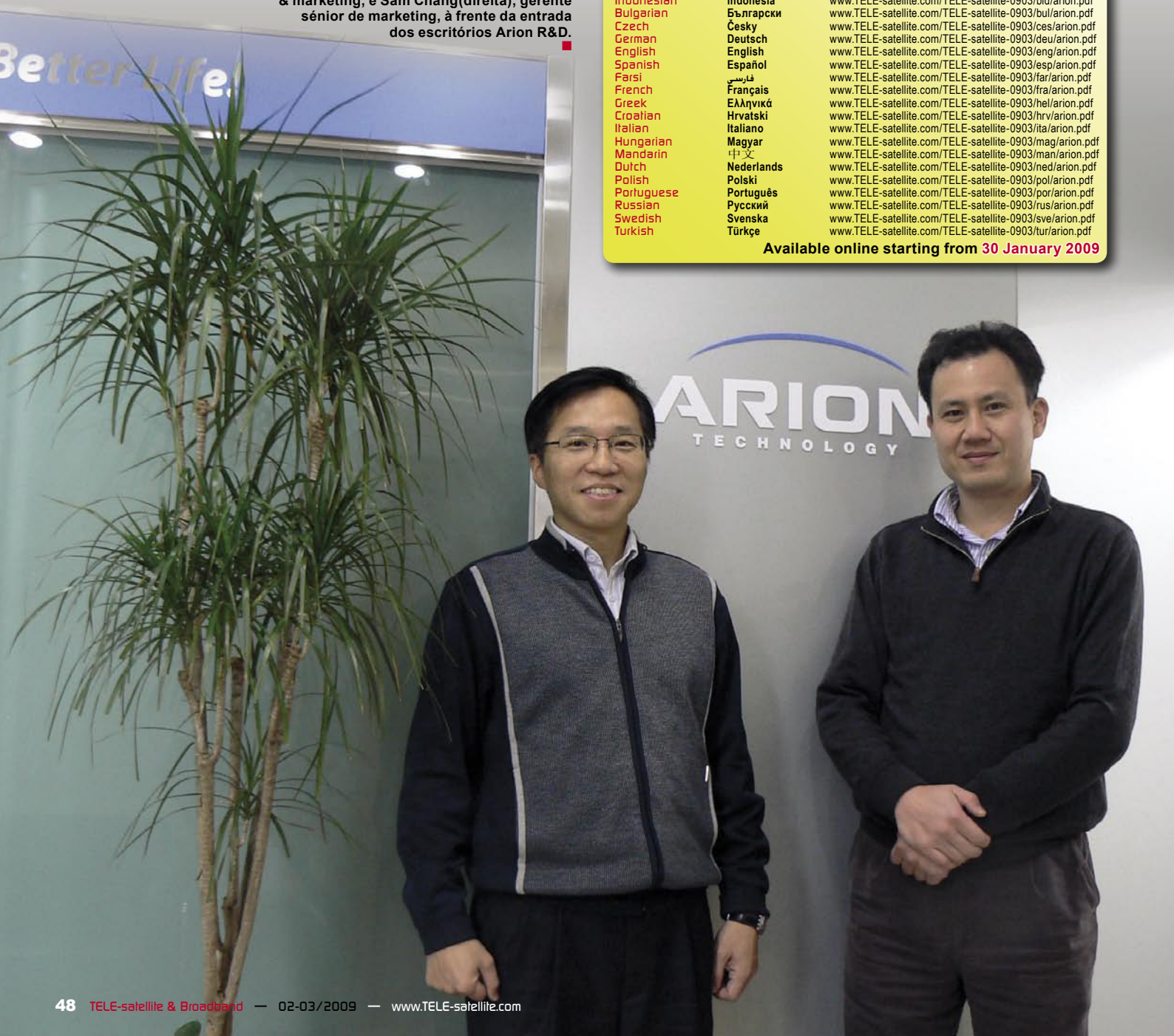
Available online starting from 30 January 2009

Thomas Roh(esquerda), director de vendas & marketing, e Sam Chang(direita), gerente sénior de marketing, à frente da entrada dos escritórios Arion R&D.



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Não é óbvio? Uma empresa com tantas antenas parabólicas no telhado, deve ter algo a ver com receptores de satélite. Jeong Woo Lee é um dos engenheiros da Arion e podemos ver aqui alinhando um LNB. No fundo pode ver a paisagem de Anyang, um dos subúrbios do sul de Seul.

pela Europa." Acrescenta Sam Chang, "O nosso escritório de vendas na Argentina está activo e em funcionamento desde o início de 2007 "e continua por revelar que" em 2009 estamos particularmente a planear manter o crescimento na Europa Ocidental."

Thomas Roh é o director de Vendas & Marketing e fornece algumas informações sobre os principais mercados para a Arion: "Desde 2006 que a Arion se concentra mais no mercado dos operadores de TV na América Latina, Índia e outros mercados emergentes e contratou a liderança na TV por cabo e os operadores de satélite. Mas em breve estaremos voltados para a Europa, um dos nossos principais mercados, e reforçaremos com novas plataformas como o HD ST7101 based HD, HD PVR-ready e Broadcom based dual HD PVR. "É aqui que a Arion foca o seu ponto especial, numa criação de cooperação para com vários provedores de satélite e de TV por cabo. E sobre o produto da gama Arion? "Nitidamente o mercado HD está actualmente na Europa", sugere Chang Sam e acrescenta que até a lista de produtos que vão ser introduzidos para o mercado europeu em 2009: "No primeiro trimestre de 2009, temos programado para o lançamento um receptor HDTV PVR-ready, o que significa que um disco rígido externo pode ser ligado ao aparelho. E seguidamente teremos no segundo trimestre um receptor integrado com disco rígido e para o final de

A equipa de vendas da Arion no seu local de trabalho.

Joey Lee, gerente de marketing da equipa de marketing da Arion.

H.M. Park é o director gerente sénior da Arion's e lidera os 50 engenheiros de software e hardware em actividades de na equipa R&D.

Um dos engenheiros de software configura o software para o novo receptor HD PVR que será lançado em breve.

Não incomodar! A concepção de um novo circuito para o receptor está a ser discutido por uma equipe de engenheiros.

2009 poderemos mesmo esperar por algumas caixas de IPTV. "Acrescenta Joey Lee " assim que os primeiros receptores piloto estiverem disponíveis iremos enviar uma amostra para a TELE-satélite fazer um relatório de ensaio. "Nós na TELE-satélite e também os nossos leitores estamos anciosos para ver estes novos receptores HDTV MPEG-4, até porque os produtos da Arion têm surgido como um pack em termos de qualidade.

Se preferir conhecer em pessoa os representantes da Arion deve marcar duas exposições na sua agenda para 2009: "Teremos um stand em ANGA e em IBC," Sam Chang confirma.

A Arion está tão activa como nunca e nós aguardaremos impacientes para conhecer os novos receptores de Qualidade Arion!

Um receptor de qualidade deve ser submetido aos mais rigorosos controlos de qualidade: Choi Eun-Ju é uma engenheira de testes na equipa de qualidade e podemos ver aqui a analisar o comportamento do novo receptor Arion na câmara de aquecimento.

Empresa Milionária em 4 anos - Talvez até 3!
SonicView, E.U.A.

A SonicView ainda se encontra neste parque industrial. Foram alugadas duas unidades pela SonicView. "Mas dentro de poucos meses vamos ter o nosso próprio edifício", diz Steve Falvey, Director Financeiro da SonicView, "Aqui o armazém está a ficar demasiado pequeno para responder ao nosso forte crescimento de vendas. "

Se pretende vender mais receptores por satélite, mais do que alguma vez imaginou no primeiro ano de actividade, então não deverá ter problemas em alcançar a marca dos milhões em quatro anos - quem sabe, talvez até em três anos! SonicView, com sede na Califórnia, foi fundada apenas no final de 2006. Bobby Sanz tomou posse no Verão de 2007 e as vendas aumentaram drasticamente desde então. Isto é realmente uma história de sucesso, uma que Tony Lively, Gerente de Vendas da SonicView, tem para nos explicar em pormenor.

No Verão de 2007 Bobby Sanz adquiriu a empresa iniciante da SonicView. Foi quando começou a acção. Tony explica, "a SonicView era uma empresa iniciante em receptores de satélite que cresceu e lutou contra algumas empresas bastante fortes no mercado norte-americano. A empresa começou com apenas três colaboradores. No início era uma empresa de pouco movimento. Com um produto de linha superior e com conhecimento do mercado norte-americano Bobby adquiriu a exclusividade da distribuição de direitos na América e a nível mundial de um fabricante coreano de receptores. "

Para a sua empresa crescer Bobby foi buscar uma equipa de profissionais de primeira classe. Steve Falvey, que trabalhava para um grande banco americano como Vice-presidente, veio também juntar-se à equipa. Após se aposentar veio para a SonicView e ocupou o lugar de Director Financeiro, e desde então tem gerido as suas funções todos os dias. A decisão de ter mudado para a SonicView foi realmente muito fácil:

Bobby Sanz é filho dele. O Steve agiu assim que o gerente do banco abriu terreno para as finanças da SonicView e permitiu-lhes construir os seus negócios com os receptores em grande estilo.

Em 2008 as vendas da SonicView duplicaram desde que o Bobby adquiriu o negócio. Face ao que inicialmente tinham previsto as expectativas para 2009 já ultrapassaram.

Afinal de onde vem este optimismo? "O mercado dos FTA (canais livres por satélite) na América do Norte ainda está no começo", explica Tony, "Uma grande percentagem de imigrantes aqui só agora se aperceberam que podem ver televisão via satélite em casa de forma gratuita." Os receptores via satélite da SonicView foram concebidos exactamente para este mercado.

"Há um segundo mercado de telespectadores que até ao momento têm vindo a pagar para ver televisão, mas aos poucos vão descobrindo que existe um grande número de canais livres que podem ser recebidos." Com a actual desaceleração económica, muitos se perguntam, porque razão devo gastar mais dinheiro num operador de Pay-TV.

A SonicView está a abrir um terceiro mercado para uma expansão na América do Sul. "Este é um grande e inexplorado mercado", Tony está convencido, "Chamamos-lhe espaço em branco ".

Pode ser visto com facilidade o profissionalismo da SonicView: primeiro todas as questões relacionadas como o envio e transporte são feitas antes que algum revendedor fique de fora. "Vamos reduzir o nosso risco, porque nós só enviamos até aos limites da fronteira, todo o resto é feito por nossos parceiros locais." Crime e corrupção são coisas que uma empresa como a SonicView deve manter à distância. Tony continua a conversa, "Pedimos sempre o pré-pagamento para reduzir o nosso risco ao mínimo."

Fomos ver o seu produto nas prateleiras e podemos verificar que por aqui passam as mãos de pessoas organizadas. Os receptores têm configuração personalizada para o mercado. Temos o receptor de Alta Qualidade modelo HD8000 HDTV para recepção via satélite, bem como terrestre, e depois vemos o SV360 Elite que a TELE-satélite falou recentemente e vem com dois sintonizadores via satélite, e o SV360 numa versão de sintonizador simples.

Antes de chegar o dia em que a SonicView vai estar presente no CES show em Las Vegas a Janeiro de 2009, a SonicView vai aparecer no mercado mais três receptores para o mundo ver: O SV360 versão HDTV com um ou dois sintonizadores e uma versão light para o mercado sul-americano com um sintonizador simples e com um modelador UHF, em vez de uma saída HDMI.

Tony confessou qual a sua visão para o negócio: "Nós vendemos aproximadamente o mesmo número de cada um dos três modelos, em outras palavras, 30% cada um."

SonicView tem actualmente 11 trabalhadores e envia apenas para o mercado grossista. "Os nossos clientes é composto por oito distribuidores regionais na E.U.A., Canadá e México", explica Tony "Estes distribuidores por sua vez entregam a cerca de 130 revendedores."

A variedade de produtos da SonicView vai ser expandida. Tony explica: "Em 2008

■ **Steve Falvey, Director Financeiro, é um ex-bancário. Steve sabe como uma empresa pode obter sucesso a nível financeiro e como consegue rapidamente chegar ao topo.**

Tony Lively, Director de Vendas da SonicView, a ler a revista TELE-satélite sobre o Relatório de Ensaio da SonicView. "Aprendi muito com a TELE-satélite", revela Tony,"Particularmente dá-me prazer ler os Relatórios de todos os países. "

■ **A Brasileira Patrícia Moreira. Renco é o seu Consultor de Negócios Internacional e está a trabalhar para montar uma rede de revendedores na América do Sul.**

TELE-satellite World

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Chris Witcomb é o Gerente do Armazém. Ele comenta, "Uma caixa contém cinco receptores e 1000 dessas caixas cabem num contentor que dá um total de 5.000 receptores. "Este é o número mínimo que um distribuidor deve encomendar, mas para muitos deles isto não é suficiente. "Para se fazer uma entrega não existe mais rápido, é tudo entregue até ao dia seguinte", comenta Chris.

Ken Cherry é o Especialista do Controlo de Inventário e para além de controlar o transporte para os distribuidores, também trata de todas as formalidades relacionadas com a importação das entregas a partir da Coreia do Sul. "O transporte para o estrangeiro demora cerca de uma semana e mais um dia no controlo alfandegário", explica Ken.

Adam Dunn, Gerente de Suporte Técnico, no local de trabalho a reparar um receptor defeituoso. Ele explica: "Temos muito poucas devoluções, no ano passado as devoluções foram .002% das vendas anuais. " Os produtos de alta qualidade da SonicView são outra razão para o seu sensacional sucesso.

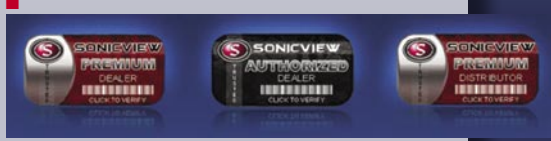
Os responsáveis pelo Suporte Técnico da SonicView são o Dick e Julie Sweeney de Michigan, e Rick Caylor (foto) nas proximidades de Kansas City, Missouri. Ele é o especialista da SonicView quando se trata de questões difíceis e ajuda os clientes a resolverem problemas de recepção via satélite e presta uma atenção especial a clientes com sistemas motorizados. Rick fala sobre as suas antenas parabólicas e diz: "Tenho seis antenas com 13 receptores. Um prato com 3 metros, Um prato com 2,5 metros em alumínio, ambos com motores, além de um prato com 90 centímetros para a DirecTV, um prato de 75 centímetros para a Galaxy 25 e duas antenas motorizadas de 75 centímetros. "Rick é um viciado na procura por frequências e gosta particularmente de corridas de automóveis, por isso também administra parte de um fórum de satélite e ele apresenta a listas de feeds de corridas de automóveis: www.websitetoolbox.com/mb/rickcaylor

apenas 10% das nossas vendas eram em acessórios, mas esperamos que este número aumente drasticamente em 2009, na verdade os acessórios poderão ocupar metade das nossas vendas no futuro." Isso principalmente vai incluir os multiswitches e cabos HDMI, mas também LNBs e sticks USB para os PVRs.

Bobby Sanz tem vários planos para o futuro e está devidamente preparado para fazer com que tudo isto aconteça: Profissionalismo no financiamento, a escolha acertada nos diversos produtos ideais para o mercado e um óptimo timing.

Quem sabe, talvez a SonicView seja bem sucedida e venha a tornar-se milionária em apenas três anos!

Estes logótipos são utilizados pela SonicView para mostrar ao cliente final a confiança que têm colocado em seus concessionários. Eles só recebem estes selos depois de serem controlados pela SonicView; os comerciantes por sua vez colocam este selos de garantia na sua página inicial.



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HDTV fabricado pela Jiuzhou

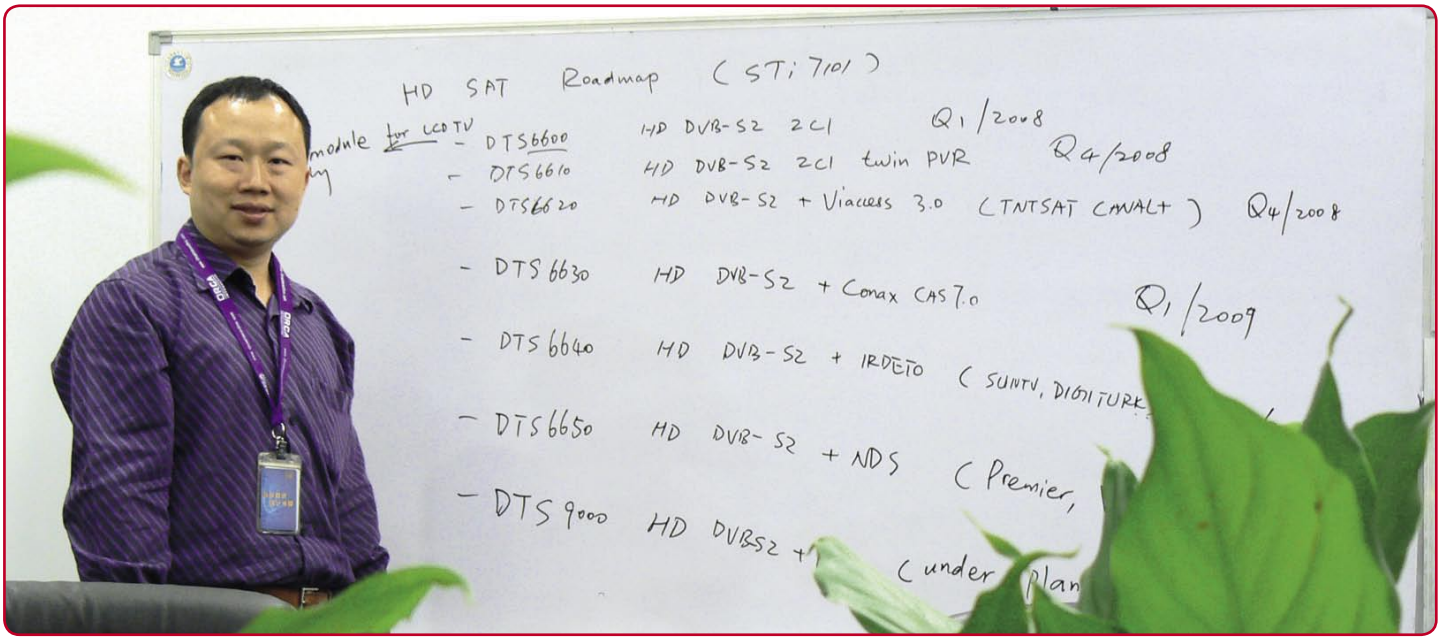
Se olharmos para trás na história das empresas de alta tecnologia, verificamos que são poucas que as que chegam aos 50 anos de vida. Uma das poucas é a Jiuzhou de Sichuan na China. Em 2008 a empresa celebrou o seu 50º aniversário, conforme dissemos na edição 03/008 da TELE-satélite. As comemorações oficiais tiveram lugar no dia 16 de Novembro na sede em Sichuan. Agora, a pergunta é: que surpresas têm para o 51º ano?

O edifico da Jiuzhou Electric no parque industrial da Nanshan hight situado na Zona Oeste de Shenzhen (China) está decorado com o aniversario dos 50º da empresa.

Os últimos Desenvolvimentos dos 51 anos da empresa

A distribuição e a base de investigação da Jiuzhou estão localizadas em Shenzhen, junto a Hong Kong no sul da China. Foi aqui que conhecemos Huang Wei, Director de Vendas da Shenzhen Jiuzhou Electric e da sua subsidiária Digital Telemedia, que está a cargo das set-top boxes em conjunto com a Jiuzhou Group. Para além dos receptores por satélite a Jiuzhou oferece também receptores para TV por cabo, televisão terrestre e IPTV.

"A TV digital terrestre TH-DMB já foi lançada em Hong Kong, e está preparado ser introduzida na China em 2009 ", de acordo com Huang Wei, antes de efectuar a mudança no sistema no satélite: "Em 2008 cerca 95% por cento de nossos produtos foram para o sistema standard, mas em 2009 o segmento de alta definição vai aumentar fortemente e perfazer 20 a 25 por cento."



■ **O Diretor de Vendas, Huang Wei apresenta o projecto dos novos modelos de receptores da Jiuzhou em 2009 - todos eles estão equipados com chipsets ST.**

Jiuzhou tem no stand uma gama completa de novos modelos para responder à procura. Na edição anterior da TELE-satélite já tinha apresentado DTS 6600. Entretanto, o DTS 6610 com twin tuner também foi lançado e será testado pela TELE-satélite em breve.

"A DTS 6620 também é novidade e foi feito especialmente para a pay TV do fornecedor TNTSAT do Canal Plus", Huang Wei continua a conversa enquanto apresenta nun quadro os novos modelos e as suas datas de lançamento no mercado.

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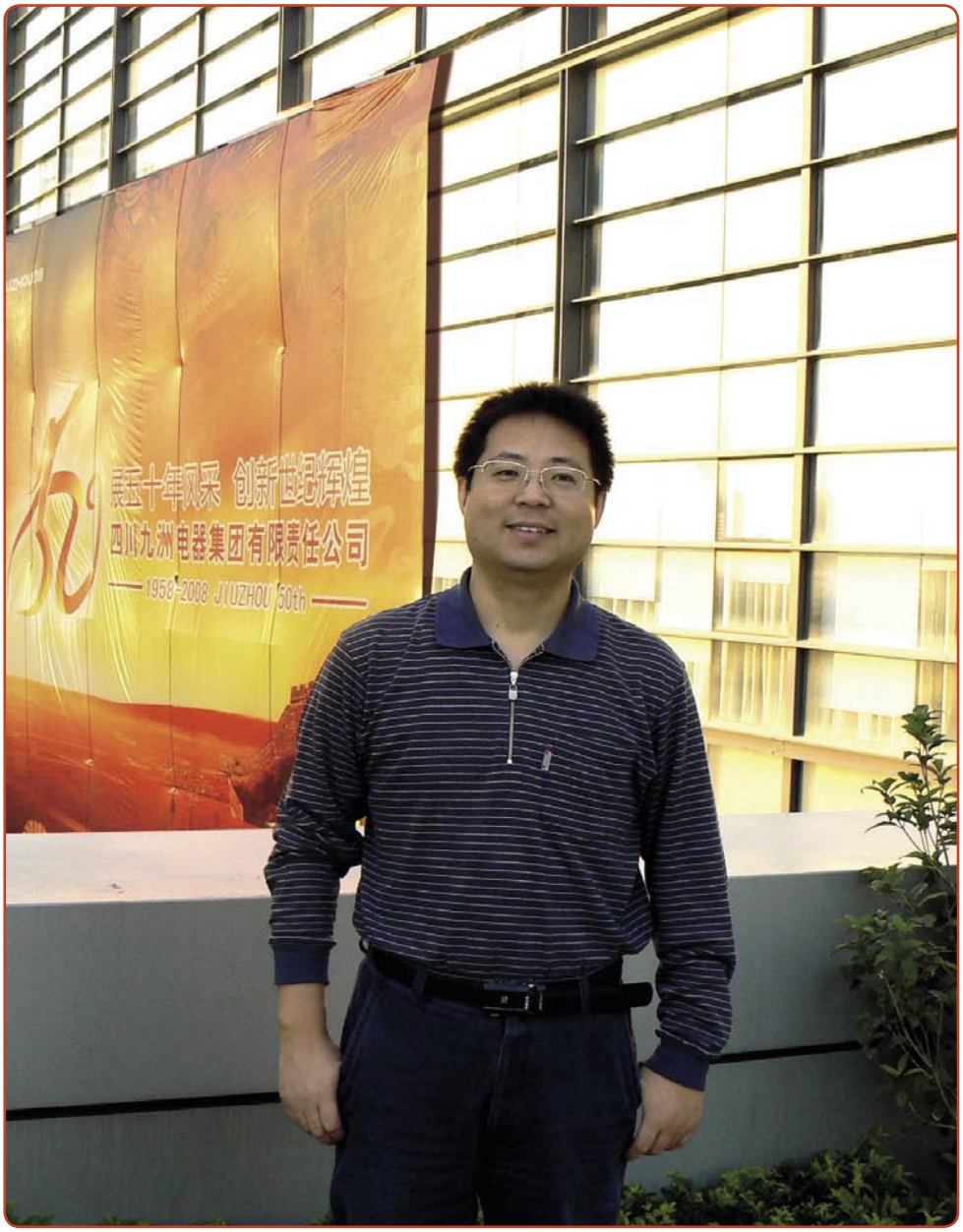
"No decorrer de 2009 vamos apresentar modelos integrados com Conax, Irdeto para a Índia e Turquia, bem como com a NDS." Até mesmo um modelo IPTV está actualmente em elaboração, mas "de momento ainda não temos procura," Huang Wei revela," apesar de a France Telecom ter publicado um concurso."

Em princípio todos os receptores são PVR, uma vez que um disco rígido ou memory stick pode ser ligado à porta USB. "Estamos cada vez mais a trabalhar em conjunto com os principais fornecedores de conteúdos e, portanto, produzimos de acordo com as suas especificações", Huang Wei Jiuzhou informa os detalhes da estratégia empresarial. Isto significa que a partir do ponto de vista técnico Jiuzhou pode fabricar com disco rígido integrado e deste modo oferecer um recurso de PVR´s em grande escala.

"Actualmente em Shenzhen damos emprego a cerca de 250 Engenheiros de software e fornecemos novos empregos a cerca de 20 a 30 por ano", afirma orgulhosamente Huang Wei e explica de que maneira a Jiuzhou com grande facilidade

Chen Jun é um dos Engenheiros de Software na Jiuzhou. Aqui ele programa o software de um receptor HDTV.



consegue dar resposta às exigências. "Os receptores Combo, por exemplo, não representam um problema de todo, e até mesmo o áudio Dolby pode ser integrado, uma vez que recentemente adquirimos uma licença para isso."

ABS é um dos mais recentes desenvolvimentos - veja as suas funções na reportagem desta revista para obter mais detalhes. ABS é a norma de difusão implementada para transmissões DTH na China e poderá ser um importante cartão para chamar o mercado chinês. "Estamos ainda à espera de especificações finais, mas 2009 deverá ver a implantação do sistema de ABS", afirma Huang Wei.

Como consequência Jiuzhou projecta que 20 por cento de seus receptores são modelos ABS. 50 por cento para a definição standard e 20 por cento para a alta definição. Huang Wei conclui que "nós também fabricamos o receptor 6600 como um plug-in para ligar painéis LCD." Isto significa que os produtos da Jiuzhou são integrados até mesmo em outros produtos da marca.

Quererá isso dizer que é tudo por agora em relação aos receptores via satélite e a Jiuzhou? Nem por isso! O Grupo Jiuzhou é a casa de mais uma empresa: Jiuzhou Electronic, que é um fabricante profissional de receptores por satélite que são usados principalmente em clientes de provedores da TV por cabo. A TELE-satélite apresentou o DVS-2018BS na edição 11/2007.

Embora esta seja a definição normalizada do receptor, o Director de Exportação Yonchin Shou explica que o novo

O director da Jiuzhou Grup Overseas marketing,Tang Erman, na zona verde da varanda do edifício Jiuzhou Electric. Podemos ver ao fundo um enorme cartaz do 50º aniversário da Jiuzhou.

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modelo DVS-2018CS HDTV é compatível. "Agora as empresas de TV por cabo podem também incluir na sua oferta canais de HDTV." Mesmo com módulos CI, caso seja necessário.

A TELE-satélite está actualmente a trabalhar para publicar um relatório de ensaio deste modelo específico. "O actual modelo é feito para o MPEG-2, mas temos mais de 200 engenheiros em Sichuan e Pequim a trabalhar num modelo MPEG-4," diz-nos Yonchin Shou sobre os projectos futuros. "No entanto neste momento a procura por receptores com MPEG-4 ainda é bastante moderada."

Mesmo após os 50 anos a Jiuzhou tem ideias inovadoras para fabricar novos modelos. Naturalmente que também estamos interessados nas estratégias de comercialização empregues pela Jiuzhou e falamos com Tang Erman para obter respostas. Tang é Director da Jiuzhou Group Overseas Marketing Department e - quando perguntamos onde ele vê o futuro do mercado para os produtos da Jiuzhou - considera que "na Europa e na América do Norte temos nitidamente a procura por receptores HDTV, por outro lado a Ásia quer SDTV."

Tang Erman coloca os recursos de marketing em conformidade: "Em 2009 vamos estar presentes em doze exposições especializadas", diz-nos Tang Erman e explica as diferenças de 2008: "O ano passado tivemos pequenos stands em 19 Feiras, em 2009 o número de feiras vai diminuir para nós, mas o tamanho do nosso stand vai aumentar. " Claro que Jiuzhou também confia na Internet como suporte publicitário. Tang Erman revela que "25 por cento do nosso orçamento é gasto na comercialização de publicidade On-line." Principalmente o alvo é B2B sites, Alibaba ou Globalsources. "15 por cento dos nossos recursos vão para publicidade na imprensa como na TELE-satélite, e 60 por cento são gastos em feiras e exposições especializadas."

Tang Erman também explica por que o dinheiro é distribuído desta forma: "Recebemos uma grande quantidade de feedback na publicidade on-line, mas estamos simplesmente a gerar pequenas encomendas. A presença na Feira é mais eficiente em termos de adquirir encomendas, porque lá entraremos em contacto com distribuidores grossistas. "Por outro lado, a participação em feiras custa muito dinheiro e" a feira dura apenas alguns dias, "Tang Erman lamenta. Portanto ainda temos a publicidade impressa:

O Director de Vendas, Yonchin Shou aponta para o novo profissional HDTV, o receptor de satélite DVS-2018CS, que podemos ver novo catálogo da CATV (www.jiuzhoutech.com).

A gama de produtos da empresa é exibida no stand da Jiuzhou. Sentada no sofá: Kitty(à esquerda), assistente de Linda Lee(à direita), no departamento da Jiuzhou Group Overseas Marketing.

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"Desta maneira estamos a presentes na frente de nossos potenciais clientes' Sempre de olhos postos por um longo período de tempo, o que nos dá a oportunidade de moldar a nossa imagem". Tang Erman está muito satisfeito com a sua estratégia global de marketing e comenta que "queremos manter esta taxa e não planeamos grandes mudanças." O departamento de Tang Erman´s é composto por 20 trabalhadores em Shenzhen, que são responsáveis pela comunicação externa.

A Jiuzhou – Nunca esteve tão activa, até mesmo no seu 51º ano!

Um protótipo HDTV é testado por Zhu Xiaoyong, o Engenheiro de Software através do sinal por satélite comum.

Worldwide Satellite in Northern Holland

The Dutch are known for their love of RV's and naturally want to be able to enjoy satellite reception in their mobile homes. A company that sells and installs the necessary motorized antennas is Worldwide Satellite located in northern Holland, in Purmerend near Edam north of Amsterdam.

Dennis van Leeuwen is one of the co-owners of Worldwide Satellite and immediately sets the record straight: "Today only 30% of our sales are related to mobile satellite system installations." Dennis along with his brother and partner Rob founded the company in 1995. "Back then we operated four video rental stores", explains Dennis and then went on, "but business continued to get worse and worse so we switched our business over to satellite equipment."

It was an obvious move considering that Dennis is an amateur radio enthusiast and was already interested in satellites back in 1989 when ASTRA started. "Only if you have fun with what you do can you be successful", suggests Dennis.

At first the two brothers installed satellite systems only for private end-users but after a few years that changed. Dennis explains: "We began to install satellite systems for sporting events in many of the sports bars in Amsterdam and this makes up about 40% of our sales today."

Installations for professional customers is not only more interesting than those for private end-users, reveals Dennis, "It also is more challenging since in many cases new solutions have to be found." Their professional customers include not only sports bars but also professional programming providers above all in the Hilver-

The two brothers Dennis and Rob van Leeuwen purchased this section in Purmerend's industrial park. It is made up of two floors totaling 400 sq-m and comes with a sales area, a stockroom and large garage to install motorized systems on RV's. A customer's RV is pictured here.

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Dennis van Leeuwen in Worldwide Satellites sales and display room.
One of their hot products is motorized satellite systems for RV's.

Rob van Leeuwen is seen here standing in front of a demonstration rack with receivers from various manufacturers. Ron and Dennis are brothers and operate Worldwide Satellite together.

sum region. "We also took part in satellite systems on oil platforms", explains Dennis.

Rob provides us with some insight into the products that are used: "In The Netherlands, multiple satellite reception is in high demand, especially ASTRA at 19.2 east and 28.2 east as well as HOTBIRD at 13 east. The best solution for these satellites is a Multi-LNB dish." Since The Netherlands is covered by strong signals, a 90cm diameter antenna would do the job. "On the professional side, we supply 120cm dishes", comments Rob, "We don't use larger antennas." Since Worldwide Satellite's customers are sophisticated, they only offer quality receivers such as those from Topfield and Arion.

Worldwide Satellite does not have any employees. "We used to use freelance installers", comments Dennis about the past, "but more often than not they were unreliable." Today, during the week Dennis and Rob are out on the road installing satellite systems while on Fridays and Saturdays their store is open for customers. "It can be a lot of work for us", says Dennis, "but it makes us happy."

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Os sistemas de satélites não recebem apenas os sinais de Televisão, rádio e canais de dados, mas também sinais não pretendidos que podem causar interferências. Como pode livrar-se destas interferências de sinais? A MFC é pioneira na indústria transformadora de filtros de satélite, que fica localizada nos E.U.A., e produz uma variedade de filtros que eliminam essas interferências.

Sempre ao telefone com clientes: Sandy Nelepovitz é a Superior associada do Marketing e gerência a equipa de vendas.

Scott Parsell, Director de Vendas, gere os representantes da rede de vendas Nacional e internacional da MFC que continuamente procuram novas oportunidades para a empresa.

"A empresa foi fundada em 1967, aqui no norte do estado de Nova York", explica Sandy Nelepovitz, Superior de Marketing da associada MFC, em certa medida é o coração e a alma da empresa. Está com a MFC acerca de 30 anos, e conta um pouco da história da empresa", Glyn Bostick, o fundador da MFC, na realidade iniciou o negócio numa garagem, produzindo filtros para utilizar em rádio amadores. Em 1973, mudamos para a nossa localização actual. Naquela época tínhamos simplesmente alugado uma parte das instalações, embora partilhando-a com outras empresas. Em 1983 a empresa continuou a crescer, fomos capazes de adquirir a instalação total com 3700 metros quadrados."

Scott Parsell, Director de Vendas, está na MFC há quase 20 anos, explica ainda que "Apesar do abrandamento económico e das mudanças tecnológicas que ocorreram na indústria das telecomunicações ao longo dos anos, o negócio do MFC permanece sólido - em grande parte devido ao fato de que nós oferecemos uma ampla variedade de produtos de filtragem - servindo praticamente todos os segmentos do mercado de telecomunicações (Satcom, CATV, Broadcast, Wireless, etc.) Esta diversidade de produtos significa que o nosso sucesso não está dependente do sucesso de um determinado segmento de mercado ". Adicionalmente, a fraca fabricação técnica implementada no mercado durante anos, tem vindo a aumentar a eficiência produtiva - permitindo à MFC ser mais competitiva.

O que realmente fabrica a MFC? Scott salienta uma das linhas de produto mais conhecida da MFC: "Nossa série de filtros da banda C que são usados nas parabólicas de todo o mundo para receber a C-band. Estes filtros são instalados entre o LNB e a alimentação, removendo indesejáveis sinais situados acima ou abaixo da banda desejada."

Embora estes sinais indesejáveis estejam fora da banda, o nível de potência é bastante elevado, e essencialmente saturam o LNB e criam padrões de interferência intermitentes ou contínuos em toda a banda-C. Consequentemente, os filtros IF de 1ª e 2ª fase são inúteis e a única solução é eliminar estes sinais, antes de os converter, com um filtro de banda na alimentação. Scott salienta, "Nós fabricamos filtros para standard band (500 MHz), extended band (600 MHz) e a super-extended band (800 MHz). Também fazemos filtros de sintonia personalizada para aplicações especiais. Nós podemos fornecer o modelo de filtro correcto para que a C-band funcione em qualquer parte do mundo. "

Quando é necessário instalar um filtro como este? Scott deu-nos alguns exemplos, "os sinais altímetro que reflectem entre as aeronaves e os aeroportos foram reconhecidos como um dos primeiros tipos de interferências out-of-band dos utilizadores da C-band. No entanto, este problema é geralmente limitado a parabólicas com C-Band localizadas perto de aeroportos. Depois vieram os sinais de radar de alta potência utilizados na vigilância militar (por exemplo, aviões AWACS), que causaram problemas a muitas antenas parabólicas com C-band. Esta vigilância aumentou acentuadamente após os ataques de 9/11 e parecia que todas as antenas C-band dos E.U. estavam a ser afectadas, juntamente com muitas outras antenas de todo o mundo. Como resultado o radar continua a ser a causa nº1 a provocar interferência nos utilizadores da c-band."

"Recentemente," acrescenta Scott, "uma nova fonte de interferências da C-band veio à superfície - Wimax". Em várias partes do mundo, Wimax opera dentro da banda dos (3,3-3,8) GHz. Estes sinais da

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Está tudo sob o mesmo teto: a produção pode ser vista na lateral esquerda do prédio com a administração do lado direito. A MFC está localizada em East Syracuse, no norte do estado de Nova York.

Eric Logan é um dos Técnicos de Engenharia. Ele pode configurar os desenhos dos filtros no seu PC de acordo com o pedido dos clientes. MFC também oferece muitos filtros para uso militar (por exemplo: - X-band).

Fica complicado, a equipe de engenharia está reunida e desenvolve soluções especiais. Paul Mears (à esquerda) é Vice-presidente de Engenharia, Bob Paul (centro) é o Engenheiro Chefe e Mike Wise (à direita) é Engenheiro Mecânico.

Wimax podem perturbar a recepção da C-band por satélite na super-extended C-band (3,4-4,2 GHz) - devido às bandas de frequências comuns que partilham. Nestes casos o utilizador da C-band deve instalar um filtro para rejeitar os sinais indesejados da Wimax. No entanto, uma vez que o filtro anula os mesmos sinais da Wimax, alguns sinais da C-band são anulados (paciência).

Contudo, os operadores estão dispostos a perder estes sinais se o resultado for bom com uma recepção nítida nas frequências restantes. Uma vez que a Wimax é relativamente recente, Scott vê um potencial de crescimento para a necessidade de filtros nos utilizadores da C-band como forma de solucionar este problema de nível mundial.

Comparando com os utilizadores da C-band, os utilizadores da Ku-band enfrentam muito menos interferência de outras fontes, já que eles funcionam num menor grau de congestionamento, são bandas de frequência mais elevadas do que o congestionamento da C-band.

"No entanto, o TRF (Transmit Reject Filters/Filtros de Rejeição de Sinais Transmitidos) é necessário em muitas aplicações de transceptores da Ku-band – onde se realiza através da mesma antena o uplink e downlink. O TRF é montado na recepção da alimentação (10,7-12,75 GHz) para eliminar a transmissão dos sinais fortes (13,75-14,5 GHz) que estão presentes", explica Scott.

A MFC também fabrica filtros de banda para a Ka-band, " ainda é insignificante a procura de filtros para a Ka-band ", admite Scott, "uma vez que a operação nesta banda de frequência tem sido limitada até ao momento."

Sandy Nelepovitz fornece mais informação da empresa, "Nossa maior clientela é o cliente final - desde que a MFC tem continuado a ser o fornecedor líder de filtros da CATV para os operadores de televisão por cabo nos E.U.". Sandy continua, "As vendas de exportação foram entre 5%-7% desde 1992. No entanto, esperamos que estas vendas venham a aumentar ainda mais com o crescente pedido por filtros de para o satélite fora os E.U."

Qualquer pessoa pode encomendar na MFC, se pretende um grande número de filtros ou apenas um único. "Temos ainda uma oferta de 30 dias de garantia de reembolso nos filtros standard", comenta Sandy ", o cliente só tem de pagar os custos do transporte marítimo caso este filtro não seja a solução." No entanto, uma vez que os clientes normalmente sabem com antecedência qual o tipo de filtro que necessitam, não costumam ter de tirar partido da garantia de reembolso.

O que acontece quando eles não sabem que tipo de filtro escolher? Sandy explica: "Nossa equipa de vendas inclui técnicos associados que estão familiarizados com a maioria dos problemas que enfrentam os nossos clientes. Assim, atendendo ao pedido, podem auxiliar o cliente na escolha do filtro apropriado para esse trabalho. "Mas para aquele cliente que ainda não tem a certeza se um filtro irá resolver o seu problema, esta garantia permite-lhe simplesmente tentar comprar um filtro standard, evitando assim o custo elevado de contratar um especialista para determinar a respectiva solução.

Ao longo dos anos a MFC tem construído um interessante e sofisticado mercado do mundo dos satélites. Se juntarmos o seu conhecimento e o seu compromisso para com a elevada qualidade a MFC pode facilmente satisfazer o desejo especial de qualquer cliente. Se estiver à procura de uma maneira de lutar contra essas interferências encontrou a solução certa aqui na linha de filtros da MFC.

Ruth Arace é Gerente de Recursos Humanos e fala sobre a empresa MFC: "Nós temos 6 engenheiros, 36 pessoas na produção e 11 administrativos associados."

Na fresadora CNC temos Bruce Sentoff (esquerda) e Dale Newton (direita). Os corpos de muitos modelos de filtros são produzidos aqui fora de blocos sólidos. "Programamos as máquinas à noite para depois serem executadas automaticamente durante a noite", explica Bruce Sentoff

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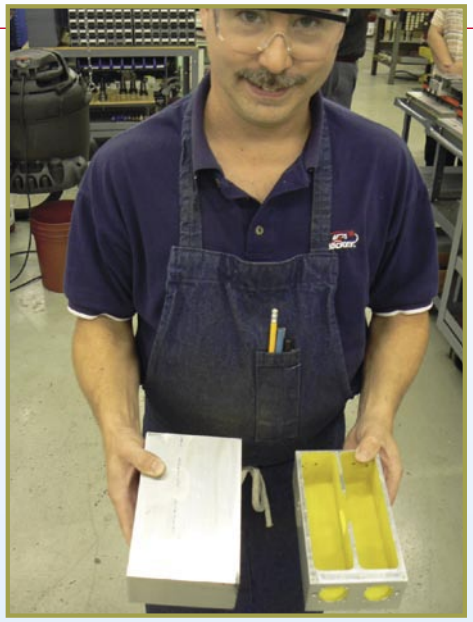
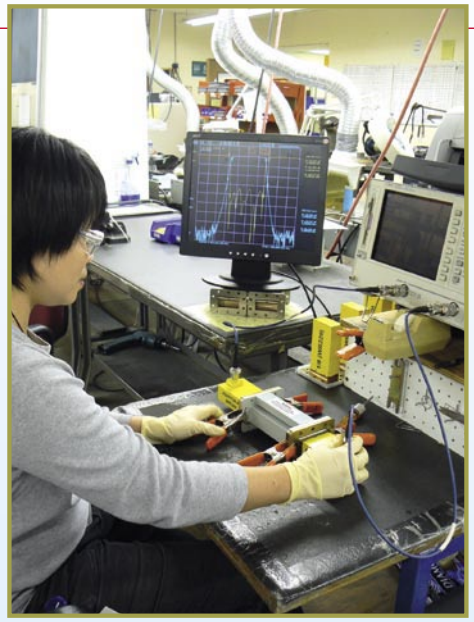


■ Dale Newton mostra a sequência da produção: fora de um bloco sólido de alumínio (à esquerda) o corpo completo de um filtro foi moído para ter todas as aberturas dos conectores e parafusos (direita).

■ A sonda de recepção do filtro é colocada no seu lugar pela Vertell Brantley. A cola utilizada precisa de assentar durante três horas, os filtros são armazenadas nesta câmara que do ar circundante. Depois os filtros ficam protegidos de condições meteorológicas.



■ Foi tudo correctamente executado durante a produção? Thuy Naylor desempenha um teste final para determinar se o filtro garante as suas especificações, ligando-o a um analisador de rede para confirmar o seu desempenho.

■ Aqui o filtro é mecanicamente montado. A empregada da MFC Melissa Bench prepara um filtro para o fogão de soldagem...

■ Bill Adamo é o Líder do Controlo de Qualidade do Grupo e demonstra como o filtro (que está vedado a resistir a várias condições meteorológicas) é testado sob pressão: "O filtro é colocado aqui e pressurizado com a 5 PSI com ar comprimido." Desta forma podem verificar se o interior do conector, bem como a sua montagem estão hermeticamente fechados. "O mais pequeno vazamento pode deixar humidade ao longo do tempo e pode alterar as características do filtro", diz Bill Adamo, "Nós testamos 100% dos nossos filtros!" Cada cliente pode ter certeza que todos e que cada filtro da MFC garante as características de alta qualidade.

■ A MFC faz praticamente tudo por conta própria: os filtros acabados são pulverizados aqui com um revestimento protector colorido.

■ ... Os filtros passam por um processo próprio de soldadura que tem lugar neste fogão de soldagem.

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ABC BIZNIS – Uma verdadeira batalha

Temos aqui uma equipa jovem a caminho do topo no mercado europeu dos receptores de satélite com a sua própria marca OPENSAT. ABC BIZNIS foi fundado no final de 2004 e desde então conseguiu transformar-se a curto espaço de tempo num grande fornecedor de receptores por satélite. Infelizmente, o caminho para o sucesso foi obscurecido pela trágica morte do fundador da empresa em 2008. Quisemos saber como ABC BIZNIS foi capaz de fazer face a este acontecimento trágico.

Hoje ABC BIZNIS é uma empresa de mercado grossista direccionada para o mercado local Eslovaco, oferecendo também antenas, LNBs, cabo coaxial e receptores. Como fabricante a ABC BIZNIS exporta os seus próprios receptores sob a marca OPENSAT. No início de 2007 a empresa iniciou a sua linha de produção com o seu primeiro receptor que era comercializado com a marca OPENSAT. Iniciaram com quatro receptores SD, que concluíram em meados de 2007 com o aparecimento do primeiro receptor HD e em meados de 2008 apareceu a oferta do segundo HD. Aliás este foi também o produto que a TELE-satélite apresentou na sua edição anterior.

Então como é que lidaram com a súbita perda de seu fundador? A resposta pode ser encontrada na equipa bastante jovem criada pela nova directora Veronika Rešetková, que conta o que aconteceu depois: "Depois da morte do meu filho Erik, que foi o fundador do ABC BIZNIS, Eu assumi a gestão da sua empresa ". Categoricamente Veronika faz uma observação:" Há rumores de que estamos à

Veronika Rešetková está apenas há poucos meses como Directora da ABC BIZNIS. Uma foto de seu filho Erik, que fundou a empresa e morreu recentemente, tem um lugar especial na sua secretária. Ele é quem lhe dá a força motriz nos bastidores fazendo com que a ABC BIZNIS seja um grande jogador no mercado.

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■ Veronika Rešetková é Gerente de Marketing, filha da directora Veronika Rešetková e irmã do fundador da empresa Erik Rešetka. Ela organiza as estratégias publicitárias da ABC BIZNIS e decide no design dos anúncios: “ As nossas cores corporativas são os diferentes tons de verde e preto.”

■ O edifício da empresa ABC BIZNIS: o armazém fica à nossa frente, com o complexo de Gabinetes ao fundo. “Mas isto não é tudo”, revela a Gerente de marketing Veronika Rešetková: “Temos ainda espaço de armazenamento adicional arrendado a outra empresa.”

■ Vista do departamento de contabilidade com a Gerente de Contas Zelmira Remenova(esquerda), Assistente de Contas Ondrusova Martina(centro) e o Administrador de Sistemas Jefferson Kenji Takahashi.

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procura de uma fusão ou uma parceria, mas isto é um disparate! "

Como prova disto, dois importantes pilares prestam apoio na sua rotina diária: de um lado é sua equipe de 14 funcionários que estão a 100 por cento por trás da visão da empresa e por outro lado é o vasto conhecimento que adquiriu Veronika Rešetková no seu emprego anterior na gestão de um negócio semelhante no sector das tecnologias.

A irmã mais nova de Erik, que também tem o nome de Veronika, recua no tempo em que iniciaram a sociedade: "Mesmo na faixa etária dos 13 anos Erik costumava ajudar nos nossos negócios do pai." A sua carreira profissional também começou na empresa de seu pai, mas cerca de dez anos depois Erik sentiu que estava na hora de colocar um pratica as suas próprias ideias,

As mercadorias são preparadas para a expedição no armazém. O Gerente do Armazém Martin Patay manobra a empilhadora, Lukas Michalik (à direita) é um dos motoristas, e Jefferson Kenji Takahashi (à esquerda) verifica um receptor que está designado para a expedição.

A Gerente de Compras, Karolina Štreicherová está em contacto permanente com os fornecedores.

Quem encomendar os receptores de satélite da ABC BIZNIS entrará em contacto com a Gerente de Vendas Hana Danišová. Ela fala perfeitamente Inglês e oferece apoio profissional para os clientes de toda a Europa. Naturalmente, ela está muito orgulhosa do sucesso dos modelos da ABC BIZNIS: "O OPENSAT X7000 é o modelo que tem maior saida - 40 por cento das encomendas de receptores são para este modelo específico." 25 por cento para cada um são as OPENSAT X7000CI e X7700, enquanto os restantes 10 por cento vão actualmente para o XT9500HD, uma caixa de HDTV.

Mesmo o produto de qualidade superior pode falhar em qualquer momento. Peter Ciljak é um dos dois Técnicos da ABC BIZNIS. Aqui podemos ver ele a substituir um chipset defeituoso numa placa principal.

Alexander Marko, Gestor de IT(Informação Tecnológica) é responsável pela infra-estrutura interna e também oferece serve de suporte aos clientes da ABC BIZNIS.

que incidiu principalmente em criar a sua própria marca OPENSAT. Em conjunto com a Karolina Štreicherová, que hoje é a gerente de compras da ABC BIZNIS e que foi a força motriz que em 2004 ajudou a fundar a empresa ABC BIZNIS.

Graças às suas ideias criativas e ao facto de estarem representar exactamente aquilo que o mercado procurava, não demorou muito tempo para ter sucesso com os produtos que colocou no mercado sob a marca OPENSAT. Em breve estabeleceu a OPENSAT no mercado local, na Eslováquia, e em 2007 começou a olhar para o mercado externo, o mercado Checo. Rapidamente conseguiu atingir uma taxa de exportação de 40 por cento, no ano de 2008 assistimos a uma cota de exportação no exterior de cerca de 50 por cento dos receptores da marca OPENSAT.

Karolina Štreicherová faz parte da equipa desde o início e informa-nos sobre as cotas de exportação da marca OPENSAT para diversos mercados: "A República Checa que é nossa vizinha leva de imediato a maior fatia dos produtos OPENSAT, que engloba cerca de 50 por cento, seguido pela Alemanha e Suíça, com 20 por cento cada e o resto da Europa, com 10 por cento ". Actualmente a ABC BIZNIS tem como alvo os países como a Espanha e Portugal, onde eles gostariam de ver crescer a sua quota de mercado e, portanto estão procurando parceiros para a distribuição. "E estamos também a olhar para a Áustria e os países do Benelux", acrescenta Karolina ", bem como os nossos países vizinhos, a Hungria e a Ucrânia, onde também teremos mais distribuidores."

A Diretora Veronika Rešetková acrescenta e revela um significativo argumento na venda: "Nós enviamos todos os nossos produtos a título gratuito!" Isto é possí-

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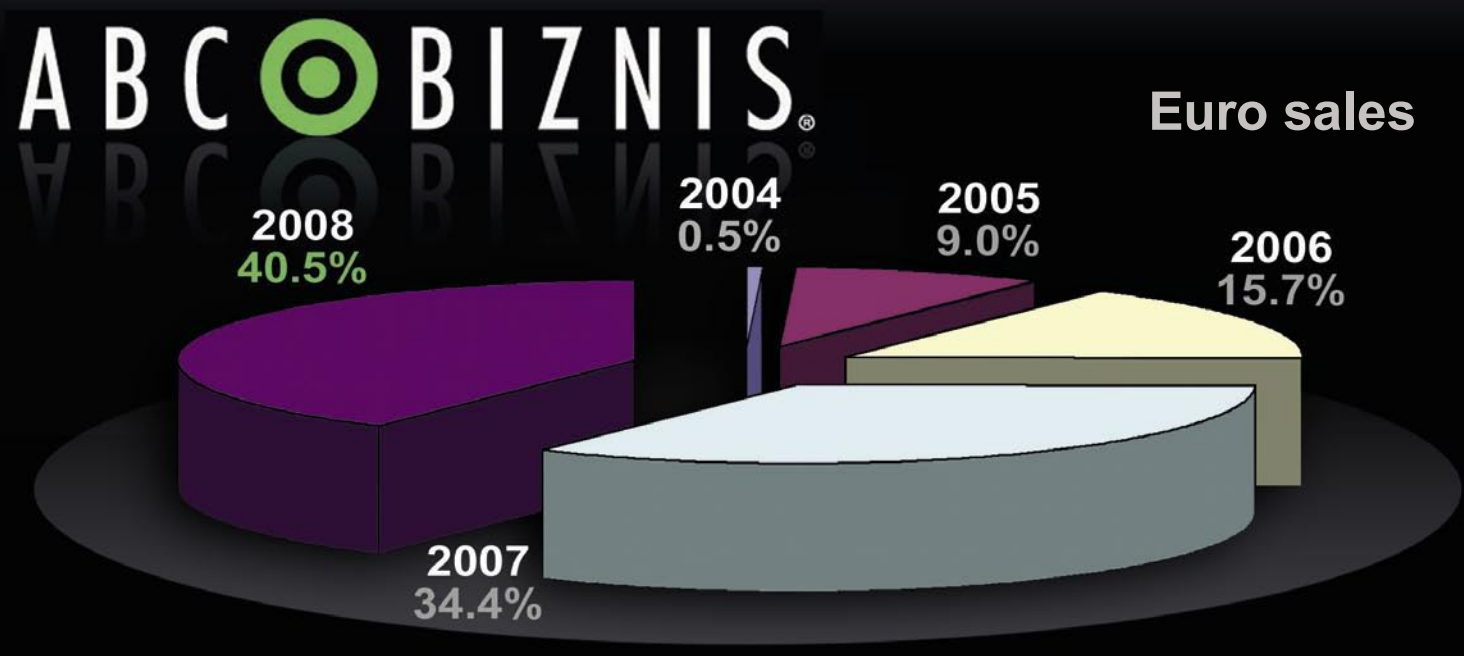
vel graças a uma frota de quatro camiões transportadores da Mercedes Benz Sprinter, que são propriedade da ABC BIZNIS e que andam na estrada a maior parte do tempo a entregar por toda a Europa. "Não temos restrições no mínimo de encomendas", acrescenta Veronika "e até mesmo podemos entregar pequenas embalagens sem adicionar custos." Este é um importante benefício para os pequenos comerciantes e distribuidores, em particular. "Queremos dar aos pequenos clientes a oportunidade de crescer, e desta forma podemos crescer com eles," Veronika tem um outro ponto positivo. A Gerente de vendas Hana Danišová vem ainda acrescentar mais esta boa notícia: "De modo geral, todos os nossos produtos vêm com uma garantia de dois anos!"

No momento em que estiver a ler este artigo haverá novos modelos nas prateleiras. A Gerente de vendas Hana Danišová foca os novos modelos: "Existe o OPENSAT 3000 CR PVR, que é um PVR com um único leitor de cartões inteligente. E também temos o OPENSAT 3000 CRCI PVR, que tem também um módulo CI. Ambos os modelos estão também disponíveis como OPENSAT 3500 HDMI PVR e o OPENSAT 3500 CI HDMI PVR, que - tal como o nome sugere - também possuem HDMI. "

Apesar da perda do fundador da empresa ser um acontecimento tão trágico como pode imaginar, toda a equipe rodeada pela Veronika Rešetková ficou ainda mais próxima desde então. Todos eles actuam em conjunto e cada um tem a sua tarefa designada para que as operações executadas corram em perfeita harmonia. Veronika, filha da irmã do novo gerente e fundador da empresa, tem uma explicação simples para o seu sucesso: "Todos nós sabemos o que Erik queria alcançar e estamos trabalhando com isso em mente para alcançar este objectivo."

Desde 2004 que o desenvolvimento da ABC BIZNIS tem vindo a subir de forma vertiginosa. Anteriormente o volume de negócios em euros era de apenas 0,5 por cento do volume total de negócios, comparado com os 40,5 por cento em 2008.

Preparados para a fotografia de grupo: as duas Veronikas (mãe ao centro, filha ao lado dela) rodeada por quase todos os empregados. A idade média do pessoal é entre 30 e 35 anos.



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Manfred Weller set up his shop in the Mar-Ola apartment complex right in the middle of the tourist capital Las Americas in the town of Los Cristianos.

Mennyfix

Obviously, the company name Mennyfix is a play on words: "many fix", the guy who can fix anything. Menny is the nickname for Manfred Weller who moved to Tenerife from Germany 21 years ago and began selling and installing satellite systems.

Manfred Weller, who comes from Cologne/Germany, arrived in Tenerife in the Canary Islands in 1987. He started as a time share salesman: tourists would purchase ownership in a vacation apartment for a certain time each year. But, as an electrician by trade, he soon began to miss working with his hands and in 1989 joined a local satellite company installing dishes. After a few years he decided to go out on his own and in 1994 founded his own company Mennyfix right in the middle of the tourist hotspot Playa Las Americas in southern Tenerife.

Naturally, that was a clever move since on the one hand, long-term tourists wanted to watch their TV from home, and on the other hand digital TV started peaking in 1994. "I imported quite a few D-boxes into Tenerife", remembers Manfred, "Back then BBC Prime still existed and thus our customers were the English." With five employees he installed mostly 100cm antennas: "In our first year it was nearly 2000 systems!" commented Manfred proudly.

But that kind of success did not continue, it didn't take too long to reach the saturation point. This made it necessary for Manfred to look for other types of customers: "Today we install satellite systems mostly for sports bars; this makes up roughly 60% of our sales. The remaining 40% continue to be with private customers."

Manfred, who married a nice English girl, states that 65% of their customers are from Great Britain. "The English are crazy about sports!" And Manfred knows how to deliver their sporting events and from what satellites to get them from. 60% of the satellite antennas his company installs are 1.1 meters in diameter, 30% are 3.0-meter offset dishes for ASTRA 2 reception and 10% are the smaller 60cm antennas for the reception of the Showtime package on NILESAT. "Every soccer game can be seen there", says Manfred. He really loves that programming provider from Dubai.

Manfred is skeptical about the future: "In ten years I believe everything will go through the Internet." He suggests that two-way Internet via satellite will have a chance, "but

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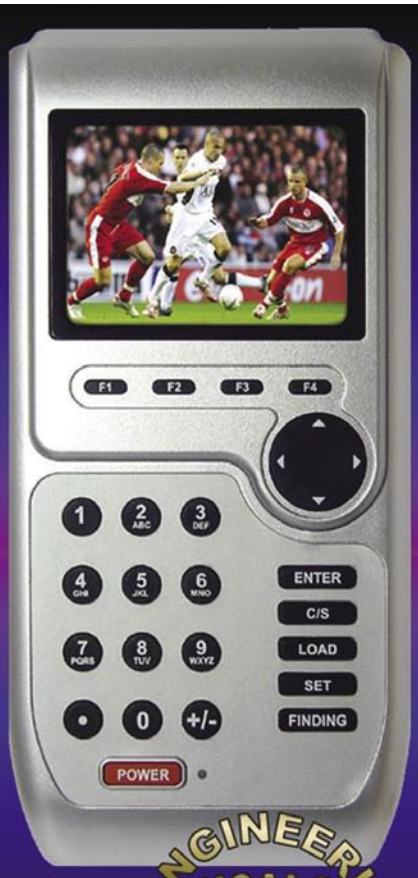

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Manfred Weller, nicknamed Menny, speaking with customers. After hanging up his landline telephone, it doesn't take long for his mobile phone to ring. He can speak with his customers fluently in three languages: German, English and Spanish. He has been reading TELE-satellite regularly for the past 14 years.

the prices are still significantly high." He is also skeptical about HDTV: "There is no decent programming available." Will his skepticism become reality? Only the future holds the answer.

Manfred Weller is also privately a satellite enthusiast. In addition to the smaller antennas he installed on his property in the exclusive Regency Country Club in Chayofa, he also has a 3.1-meter dish for ASTRA 2 reception.

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Shenzhen Satellites

■ Laoge works on setting up a reception system with three LNBs.

As of now private satellite reception is still illegal in China, but in actual fact you can always find a loophole if only you look hard enough. Satellite installers advertising their services in English and setting up systems for foreigners, for example, don't have much to fear from the authorities.

Laoge shows us a picture of one of his first installations on his laptop computer in a busy Starbucks right at the Dongmen Markets in Shenzhen. One of the Dream receivers he likes to use for AGILA reception is on the table. "The LAN interface is quite important," Laoge whispers with the blink of an eye. Professionals among our readers will know exactly why. ■

Take Laoge, for example. We met him on a busy Saturday at a Starbucks right in the helter skelter of Dongmen Markets in Shenzhen. He has been installing satellite systems for foreigners in Shenzhen since 2006 and tells us how everything started: "It was back in 2006 when I virtually stumbled across the www.tv88.cn website while googling." The site is run by Daxue, one of the heavyweights of the satellite community in southern China. "He taught me everything about satellite reception," Laoge remembers. The two got in touch and soon became friends. One day a Filipino living in Shenzhen approached

■ **Thanks to his skills as software engineer Laoge has written a little application for recording the video stream of the Dreambox. He calls it Dreambox Recorder v1.0 and offers it for download at tv88.cn/Soft.**

Daxue because he wanted to have a satellite system set up at his home. Daxue hardly speaks any English, however, and forwarded this request to Laoge. "This Filipino became my first customer," Laoge tells us with pride. And his first job was to install a 60 cm antenna for reception of AGILA at 146° East.

Loage was commissioned to set up five more systems in 2006, one year later the number of jobs had risen to 15 and in 2008 Laoge installed a total of 32 antennas. "But it's still only a hobby. I'm a software engineer by profession," Laoge explains and adds that "I charge 2000 RMB (approx. 200 EUR) for each installation – and this includes antenna, LNB and receiver." Where does Laoge source his components? "I buy them at auctions on www.taobao.com," Laoge tells us. Taobao is something like the Chinese version of e-bay.

90 percent of Laoge's customers originally come from the Philippines and most of them live in the Nanshan area of Shenzhen. The AGILA offering, however, includes more than 30 English language channels and therefore might be interesting for foreigners with other nationalities as well. The following satellites can also be received quite easily in Shenzhen: APSTAR 1 at 138° East, APSTAR 2R at 76.5° East and ASIASAT at 122° East.

■ **Daxue (left), one of the more known satellite enthusiasts in China, and Laoge (right) meet at a satellite exhibition.**

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EUROPE

EUROPE

ASTRA WITH 55 HDTV CHANNELS

The number of HD channels broadcast via the Astra Satellite System has increased significantly, reaching 55 in October 2008, an increase of 13 channels since August. With 55 HD channels broadcast from its main orbital positions, Astra represents the most important HDTV platform in Europe. The SES group, including SES Astra, SES Americom and SES New Skies, today transmits a total of 137 HD channels.

SPACE SYSTEMS/LORAL TO PROVIDE SIRIUS 5 SATELLITE

Space Systems/Loral (SS/L) has been awarded a contract to manufacture a new spacecraft for Luxembourg-based satellite operator SES. Designed to be located at 5 degrees East, SIRIUS 5 is configured with two Ku-band beams, one serving customers in the Nordic and Baltic countries and the other serving Sub-Saharan African. It has a total of 36 active Ku-band transponders available. The spacecraft also has two C-band beams, one with Global coverage and one with Hemispheric coverage, which can be operated with up to 24 active C-band transponders. The satellite design also includes a Ka-band uplink capability. The satellite is scheduled for delivery in 2011 and is designed to provide service for more than 15 years.

SES LAUNCHES ASTRA 1M SUCCESSFULLY

SES ASTRA's new ASTRA 1M satellite was successfully launched on November 8 from Baikonur to the orbital position 19.2 degrees East. It will be brought into its final orbital position in few weeks and will be made commercially available in January 2009 after extensive in-orbit testing. It will deliver DTH services including HDTV to Continental Europe.

MTV TO LAUNCH HDTV SERVICE WITH GLOBECAST

MTV Networks International has selected GlobeCast for the recent launch of its first international HDTV service dedicated to music and kids. MTVNHD carries music based and kids' programming that is original, acquired and from MTVNI's multi-branded library. The 24-hour English-language HDTV service will initially be available in Denmark, Finland, Norway, Poland and Sweden, with plans to expand to France, Germany, the Netherlands, Portugal, the United Kingdom, Argentina, Brazil, Chile, Colombia, Mexico and Venezuela in the coming months.

BULGARIA

MEGALAN SELECTS SECUREMEDIA FOR IPTV SERVICE

ISP Megalan Networks has selected content security from US firm SecureMedia to secure its new triple-play service including IPTV which it has launched in Sofia. Megalan Networks has selected SecureMedia's Encryptonite ONE System to protect its new triple-play service, delivered over its fibre-to-the-building (FTTB) network with over existing 50,000 subscribers. The Bulgarian ISP also reportedly plans to rollout the service to other major population centres in Bulgaria in the future.

CROATIA

T-HT WITH 100,000 SUBSCRIBERS FOR IPTV SERVICE

T-Hrvatski Telekom (T-HT) has announced its client base has increased to 100,000 for its MAXtv IPTV product. This represents a rise of 40% since the end of June this year. MAXtv, which launched in September 2006, includes more than 100 local and international TV channels and a VOD library.

FRANCE

PRIVATE MEDIA SIGNS IPTV CONTENT DEAL WITH VIRGINMEGA

Adult content provider Private Media Group has signed an agreement with Virginmega France for the supply of content for distribution on the PC platform of Virginmega.fr and its IPTV operator partner. Private's content is currently available in 18 European countries via 35 IPTV providers covering a subscriber base of 7.3 million. Private's presence in the European IPTV market represents close to 75% market coverage.

FOUR FRENCH TV CHANNELS GO HDTV

Four major French terrestrial HD channels launched in October, joining Canal Plus HD. TF1, M6 and France 2 are broadcasting their HD streams over R5, a new MPEG-4 DVB-T multiplex system with 27 transmitters covering about 40% of the French population. An additional 24 transmitters are planned to extend coverage to 60% by May. Arte is broadcast from the R4 multiplex, which has around 80% national coverage. An estimated 750,000 HD-ready TV sets have been sold in France so far this year, for a national total of around 7.2 million.

ORANGE FRANCE WITH 1,6 MILLION SUBSCRIBERS

France Telecom's Orange France had 1.603 million digital TV customers by the end of the third quarter of this year, of which 70,000 were subscribers to its new DTH service, and recorded a 64.4% year-on-year growth for its digital TV service (IPTV and satellite) in the period.

GERMANY

DT WITH 333,000 CUSTOMERS FOR IPTV SERVICE

Deutsche Telekom reported a 33% jump in IPTV orders during the third quarter, and now has about 333,000 customer orders total for its Entertain IPTV service. About 257,000 customers actually had service activated at the end of the third quarter. DT is aiming to get 500,000 customers signed up by the end of this year.

GREECE

PRIMETEL INTRODUCES ARABIC MIDDLEWARE

PrimeTel, which provides voice, video and data services in Greece as well as developing IPTV middleware for other operators, has launched an Arabic user interface for its IPTV middleware product PrimeTV. It supports features such as TV Zapping, VOD, user interface in multiple languages, multicast EPG, caller ID on-screen, network PVR and time-shifting. The middleware also features interactive applications such as Internet video, interactive music video jukebox, photo gallery with USB upload functionality, games, email, chat and RSS news.

ITALY

TELECOM ITALIA TARGETS 1.5 MILLION IPTV SUBSCRIBERS

In its new three-year strategy, Telecom Italia is aiming to reach 1.5 million IPTV subscribers by the end of 2011, an ambitious gain from the 218,000 customers reported for the end of last September. The operator expects to reach 300,000 subscribers for its IPTV service Alice TV by the end of this year, and was recently reported to be already trialling fibre-to-the-home (FTTH) services, including IPTV, for commercial launch in 2009.

LITHUANIA

TWO WAY MEDIA IN IPTV GAMES DEAL WITH PENKI KONTINENTAI

UK interactive media production company Two Way Media has signed a licensing deal with Lithuanian IPTV operator Penki Kontinentai to supply a package of unique games as part of a new games service on the Lithuanian service provider's IPTV platform. The package features puzzle and strategy games including Two Way Media's most successful titles such as Buzzwords, Maze Master, Deal With It and Jelly Sets. Penki Kontinentai currently has around 25,000 subscribers for its IPTV service.

TEO WITH 47,500 IPTV SUBSCRIBERS

Telecommunications operator TEO ended the third quarter of 2008 with 47,500 IPTV subscribers, compared to 28,000 at the end of the second quarter of this year. TEO recently added NBA TV to its 'Interactive GALA' IPTV and 'Digital GALA' DTT service, thus becoming the first operator in the region to offer the channel.

MACEDONIA

MAKTEL LAUNCHES MAXTV IPTV SERVICE

Makedonski Telekom (MakTel) launched an IPTV service in November, under the brand MaxTV. The operator also intends to offer the IPTV service as part of a triple-play bundle, 3 MaxTV, with internet access and fixed telephony. MakTel's basic MaxTV package costs MKD 999 (USD 20.48) per month and 3 MaxTV will be offered in two flavours – both of which require a one-off subscription payment of MKD 1,200. For MKD 2,499 per month, customers can take the unlimited internet traffic option, which also includes unlimited voice calls on the telco's network and over 70 TV channels.

THE NETHERLANDS

KPN WITH 30,000 IPTV SUBSCRIBERS

KPN ended the third-quarter 2008 with 700,000 subscribers for its combined digital TV operations, with 30,000 of these being IPTV subs and the remainder being customers for its pay-DTT service 'Digitenne'. This total number of 700,000 subscribers for all digital TV operations increased 69% year-on-year in the third-quarter of this year, while growth figures for its IPTV services in the period were not available.

POLAND

TPSA ADDS 3,000 IPTV SUBSCRIBERS IN Q3

TPSA added 3,000 IPTV subscribers in the third quarter of this year to reach 57,000 at the end of the period. The telecom operator also launched a satellite TV service in October in order to expand its footprint for the provision of triple-play services.

CYFROWY POLSAT LAUNCHES ECHOSTAR'S NEW STBS

EchoStar Europe's advanced HD set-top box has been introduced by Cyfrowy Polsat, the largest Polish satellite television platform serving 2.4 million subscribers. The DBS-7100HD is equipped with the latest, single-chip silicon solution and features HDMI connectivity for a high quality connection to flat screen HD-enabled TV sets, Ethernet port for future-upgrade to a high speed, broadband return channel for the delivery of advanced,

value-added services, and Dolby Digital loop-through for delivery of high quality sound to a home cinema system.

RUSSIA

IPTV SUBSCRIBERS TO DOUBLE BZ 2012

According to a report by research company J'son&Partners, 600,000 Russian households will have IPTV by 2012, a twofold increase from 2007. Revenue from providing the IPTV service will reach US$ 19 million in 2008, increasing to US$ 56 million in 2012. The largest operators in the Russian IPTV sector in the first half of 2008 were Stream-TV, which accounted for 61% of the market, and Svyazinvest (31%).

EUTELSAT TO COMPENSATE SHORTAGE OF SATELLITE CAPACITY

The Space Communications company is short of satellites to guarantee communications and TV broadcasting throughout Russia, according to its deputy general director Ksenia Drozdova. Satellite use is approaching 100%, while five out of the 10 satellites used by the company have reached the limit of their service life. With the goal of bridging the problem, Eutelsat and Space Communications have reached a deal on the assignment of satellites for guaranteeing communications in Russian territory, with the W2 satellite to be placed at the use of the Russian company.

REDCOM BRINGS HDTV TO FAR EAST REGION

Consumers in Russia's eastern region of Khabarovsk will now be able to enjoy affordable access to HDTV, VOD and other multimedia services through a Metro Multiservice Transport Network (MMTN) that is based on Cisco technology. Redcom, Khabarovsk's leading telecommunications service provider, has implemented a strong network backbone that is scalable and fault-tolerant with high levels of security, selecting Cisco's Ethernet Fiber to the Home solution with Metro Ethernet technology. With Metro Ethernet, Redcom can now also differentiate traffic, offer flexible billing options to consumers, and expand bandwidth to meet peaks in service demand.

SCANDINAVIA

TELIASONERA RACHES 450,000 IPTV SUBSCRIBERS

TeliaSonera added 23,000 IPTV customers in the third quarter of 2008 across all regions to bring its total to 450,000, with over half of its IPTV customer base in Sweden paying to receive the service. In Sweden, more than 100,000 new subscriptions year-on-year were added to reach 320,000, however the company reported no growth on a quarter-on-quarter comparison in the country. TeliaSonera had a total of 839,000 digital TV subscribers across all regions, including its cable TV operations in Denmark.

AMINO ACQUIRES TILGIN'S IPTV BUSINESS

Set-top box supplier Amino Technologies has acquired Tilgi's IPTV business, paying 30 million Swedish Kronor (US$ 3.6 million) for the Swedish vendor's loss-making IPTV set-top box business, which has sold and delivered 500,000 units to date. Tilgin has between 10 and 15 customers, mostly in Europe, with very little overlap between the two firms' customer bases.

SPAIN

REGULATOR SUSPENDS TELEFONICA'S TRIPLE-PLAY

The Spanish Telecommunications Market Commission (CMT) has temporarily suspended Telefónica from providing commercial services, including IPTV and Internet access, over its new fibre-to-the-home (FTTH) network, following a complaint lodged by Orange España. Orange España claims that Telefónica has not finalised wholesale access terms for the network infrastructure, and the CMT determined that services may only be launched on the new network once it is satisfied that agreements with alternative providers have been reached for access to the network. Telefónica recently launched trials on the network in Madrid and Barcelona to test Internet access at 30 Mbps, as part of a triple-play offer that includes its IPTV service Imagenio. Telefónica is thought to have planned to reach more than 1,000 FTTH clients by the end of 2009.

TELEFONICA LAUNCHES IMAGENIO HD

Telefónica has launched a new high-definition service for its IPTV service Imagenio, available to those IPTV subscribers which are connected to its new fibre-to-the-home (FTTH) network. All subscribers which have signed for a Trío Futura 10 or 30 Mbps connection are receiving an HD-capable set-top box, and the new Imagenio HD service currently offers the channel AXN in high-definition. Telefónica reportedly plans to gradu-

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ally increase the number of HD channels available, starting with addition of Canal+ in the near future.

SWITZERLAND

SWISSCOM BLUEWIN TV ADDS HD VOD TITLES

Swisscom's Bluewin TV is offering 130 feature films, concerts and documentaries in high-definition on-demand with Dolby Digital 5.1 sound, with prices starting at CHF 2.50 (US$ 2) each. Viewers will initially be able to choose from over 70 feature films, over 40 concert recordings and around 30 documentaries. A "large number" of dubbed films will also be made available in their original language with Dolby Digital 2.0. Bluewin TV had 95,000 paying customers at the end of September, up from 80,000 at the end of the second quarter of 2008 and 52,000 in September 2007.

TURKEY

SEACHANGE AND ARGELA TO BRING IPTV TO TURK TELEKOM

IPTV and VOD software, systems and services provider SeaChange International has partnered with Turkey-based telecom solutions provider Argela to provide IPTV solutions for Turk Telekom, for which SeaChange is also providing systems integration and professional services. SeaChange and Argela's combined product offering will enable telecom operators to offer telephony, messaging, Internet access, mobility services, VOD and personal video recording services that integrate seamlessly with their service delivery platforms (SDP). The companies are partnered to bring these services to the rapidly growing market for IPTV.

AIRTIES SELECTS OPERA FOR NEW IPTV STB

AirTies has selected Opera 9.5 for devices from Opera Software to serve as the presentation engine for its new high-definition 'Air 7120' IPTV set-top box. The selection of Opera 9.5 for devices is intended to lend web browsing capabilities to the Air 7120, , as well as allow developers to quickly and easily create user interfaces and other applications using Web technology such as HTML and CSS. The company adds that using widgets, users of the Air 7120 can additionally access Internet content in the form of small applications directly from the set-top box's home screen.

UNITED KINGDOM

BROADCASTERS TO LAUNCH HD ON DTT

Channel 4, the BBC and ITV are to be given free high-definition spectrum on the Freeview digital terrestrial platform, according to media regulator Ofcom. It plans to auction an additional HD channel to commercial players by the end of 2010. The new channels will roll out on a regional basis starting next fall with nationwide coverage expected by the end of 2012. ITV will broadcast its peak time schedule on the new service plus football and drama, Channel 4 intends to feature a mixed genre service including more than 150 hours of movies in the first year on air, while the BBC is yet to reveal its plans for its HD channel.

BBC PLANS OPEN IPTV PLATFORM

The BBC is in preparations to create an open industry standard Internet TV platform codenamed 'Canvas', intended to enable content providers to easily launch Web TV services, according to Erik Huggers, the corporation's Director of Future Media & Technology, speaking at industry event Mipcom. He stated that the service would potentially be available via a set-top box and enable "any service to build applications onto the platform". Huggers estimates that, if approved, Canvas is at least 12 to 18 months away.

BT VISION LAUNCHES CATCH-UP IPTV PLATFORM

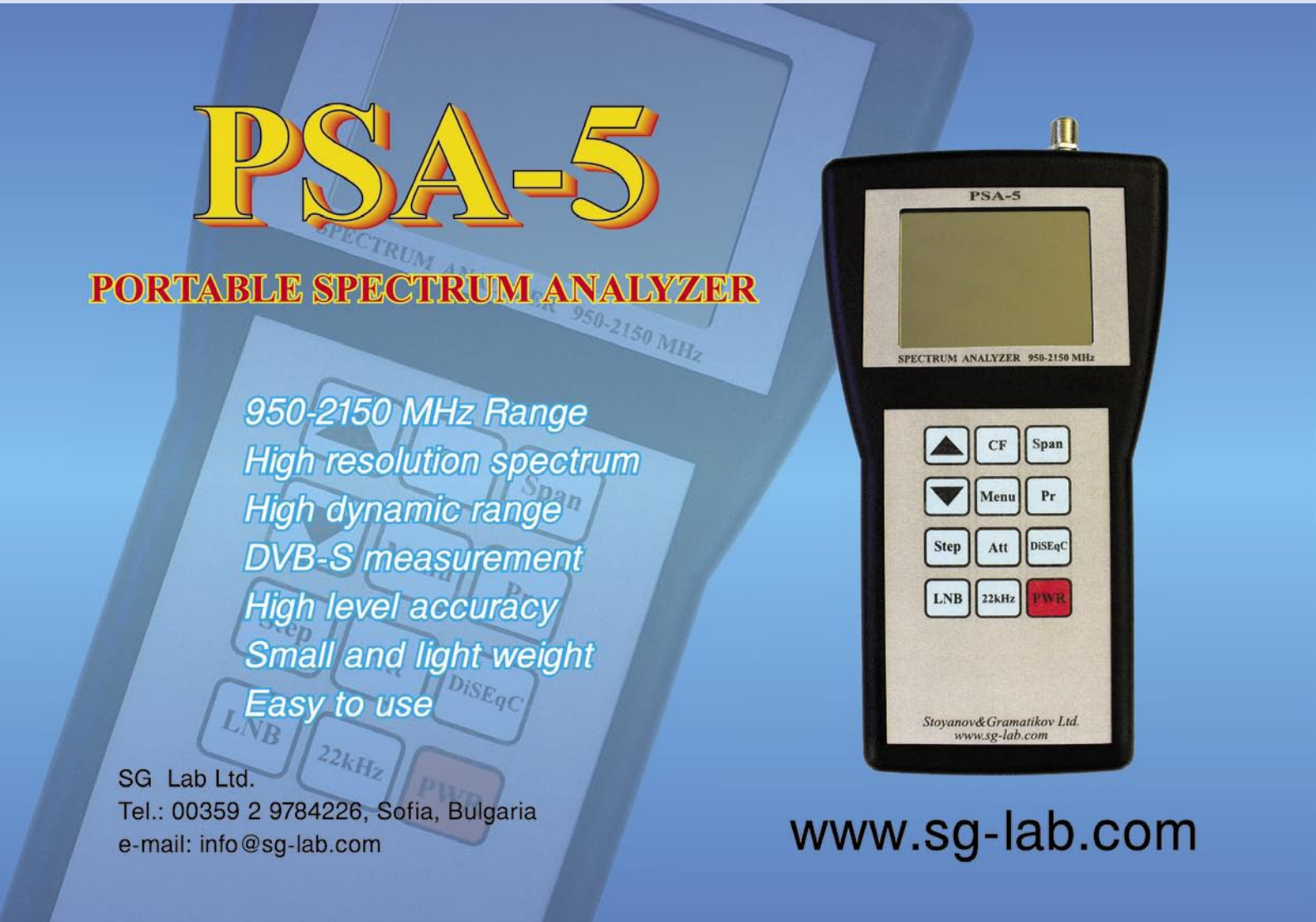
BT has become the first company to offer catch-up television from all the UK's terrestrial networks, after linking up with ITV to make the broadcaster's programming available via digital TV service BT Vision. The deal, which sees ITV syndicating its content in a closed VOD platform for the first time, provides full catch-up for eight days through BT Vision's TV Replay service. The move also gives viewers access to archive programming from terrestrial channel ITV1 and digital channels ITV2, ITV3 and ITV4.

SKY LAUNCHES ONLINE TV SERVICE

BSkyB has launched its standalone online pay-TV service Sky Player TV, providing access to some Sky channels without the need to subscribe to its satellite-based service. The service offers internet users a choice of three packages with prices ranging from £15 (US$ 22) to £34 a month. The Entertainment Pack costs £15 per month and includes the Disney Channel, British Eurosport, National Geographic Channel, Sky News, Sky Sports News, MTV One, Nickelodeon and Nick Jr.

FOX SIGNS VOD/IPTV DEAL WITH BT VISION

20th Century Fox has signed a deal with BT Vision giving the IPTV operation rights to a



range of new and classic Fox films. Some of the titles included in the pact are “Shine a Light,” “The Happening” and “Dr. Seuss’ Horton Hears a Who.” Library titles include “Alien Resurrection,” “The Beach,” “Die Hard” and “I, Robot.” The deal enables BT Vision subscribers to rent the shows on a PPV basis and follows on from a similar one inked with Disney-ABC.

BBC INTRODUCES LIVE STREAMS ON IPTV PLAYER

The BBC’s free broadband Internet TV (IPTV) service, iPlayer, has introduced live streams from its BBC One and BBC Two TV channels. BBC Three, BBC Four, CBBC, CBeebies and BBC News are already being broadcast in this way. The move means that popular shows, such as EastEnders, Heroes and Never Mind The Buzzcocks, are available online to license fee payers.

NORTH AMERICA

ARIANESPACE TO LAUNCH VIASAT-1

Arianespace and ViaSat have signed the launch Service & Solutions contract for the ViaSat-1 satellite. The high-capacity Ka-band spot beam satellite is scheduled for launch by an Ariane 5 during the first half of 2011 from the Guiana Space Center, Europe’s Spaceport in Kourou, French Guiana. ViaSat-1 will be dedicated to providing broadband internet media services to consumers and businesses over North America. With a capacity estimated at 100 Gbps and built by Space Systems/Loral, ViaSat-1 is expected to be (at launch) the highest capacity satellite in the world.

CANADA

ZENIT ROCKET TO LAUNCH TELSTAR SATELLITE

The Zenit-3SLB carrier rocket is scheduled to lift off from the Baikonur Cosmodrome space center at the end of December to launch a U.S. Telstar satellite. The satellite, built by Space Systems/Loral for Telesat Canada’s Loral Skynet telecom subsidiary, will provide services from 39 high-power Ku-band transponders spread across four different geographic beams in each of North and Central America, Europe, Africa and the maritime Atlantic Ocean region from its orbital slot at 15° West.

TELESAT TO MANAGE TWO NEW SATELLITES

Telesat has won a job to manage the in-orbit operations for two satellites that will soon be launched into U.S. and Canadian orbital slots. Virginia-based Mobile Satellite Ventures (MSV) and its Canadian joint venture partner have chosen Telesat to operate their MSV-1 and MSV-2 next-generation satellites, which are respectively scheduled to be launched into the U.S. orbit in 2009 and into the Canadian orbital slot in 2010. MSV, which also has operations in Ottawa, said the two satellites will be two of the world’s most powerful commercial satellites, enabling wireless coverage for conventional handsets and devices throughout the United States and Canada. Under the agreement, Telesat will conduct in-orbit operations of the two satellites from its Satellite Operations Centre in Ottawa and its backup facility in Mount Jackson, Virginia.

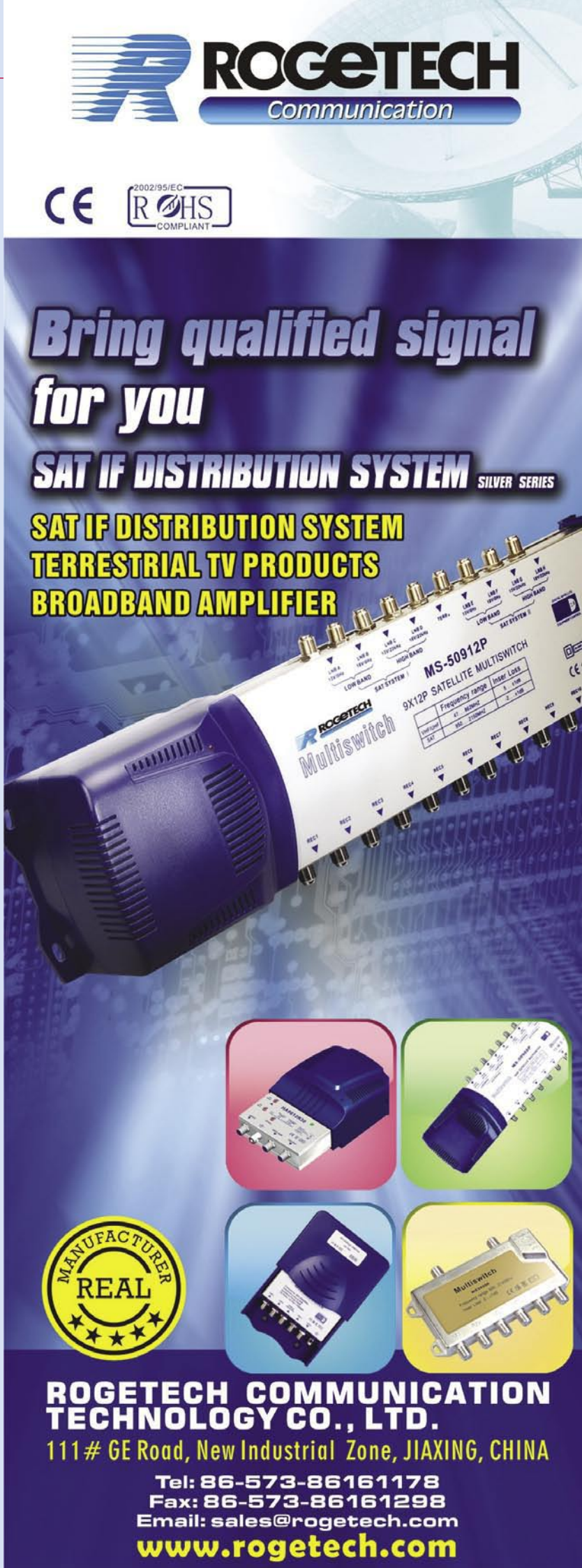
INTRACOM DELIVERS IPTV SOLUTION TO WIGHTMAN TELECOM

Greece-based Intracom Telecom, a part of Sitronics, has delivered its fs|cdn MPEG-4 IPTV solution to Canada-based Wightman Telecom, through its subsidiary, Conklin-Intracom, based in the US. Wightman Telecom has selected the fs|cdn MPEG-4 IPTV delivery solution to serve communities in the counties of Bruce, Grey, Huron, Wellington and Perth of Ontario. Wightman Telecom has started deploying these services to customers that are reached with their new fiber to the home initiative, as well as those served through existing copper infrastructure via xDSL.

UNITED STATES

ENTONE SELECTED BY ITC FOR IPTV DEPLOYMENT

Entone’s Hydra IP video gateway has been chosen by Interstate Telecommunications Cooperative, Inc. (ITC) for their IPTV rollout. ITC provides local telephone, digital television and broadband services to subscribers in South Dakota and Minnesota. ITC now offers a triple play service bundle of voice, video, and data using Entone’s Hydra IP video gateway, part of Entone’s Connected Home Solution that eliminates the need for multiple set-top boxes or new home wiring to deliver IPTV services. Using patent-pending technology, Hydra can deliver multiple video streams over a single DSL or Ethernet connection using existing in-home coax cabling.



AT&T TO SELL IPTV SERVICE AT RETAIL SERVICE

AT&T has signed agreements with Wal-Mart and Circuit City to sell its 'U-verse TV' IPTV service and 'U-verse High Speed Internet' broadband service in over 600 retail locations across the US from this month. The agreements are the first national retail deals for AT&T U-verse, which will initially be offered at Circuit City and Wal-Mart stores located near neighbourhoods where U-verse services are available. AT&T already sells its IPTV and Internet services direct to the consumer across the US and reached 549,000 subscribes to U-verse TV at the end of the first half of this year, with the aim of passing 1mn by the end of this year.

KIT DIGITAL TO DELIVER IPTV STB

IPTV technology and solutions provider KIT digital has been selected by TV2Moro, a new firm backed by several ethnic television aggregators and producers, to deploy a new IPTV set-top box (STB) service to deliver programming to ethnic consumers in North America. The TV2Moro/KIT digital partnership has a minimum term of 48 months, and involves platform development fees, ongoing platform licensing fees, and a revenue share model based on the number of subscribers adopting the service. TV2Moro's initial commercial roll-out will include a top-tier bouquet of Arabic language channels, and is scheduled for the beginning of 2009, with a test phase taking place now.

RURAL IPTV CARRIERS GET HBO, CINEMAX RIGHTS

The National Rural Telecommunications Cooperative (NRTC) has forged a long-awaited agreement with Home Box Office (HBO) that will allow rural IPTV carriers to offer a range of HBO and Cinemax standard-definition and high-definition programming. The video distribution agreement grants NRTC members rights to 26 HBO and Cinemax MPEG-2 SD offerings and 26 MPEG-4 HD feeds, as well as subscription video-on-demand rights.

SES AMERICOM FILLS UP CAPACITY ON AMC-21 SATELLITE

Within the first month of AMC-21 becoming commercially available, a total of 16 transponders are under contract and utilizing the new Ku-band capacity at 125 degrees West. AMC-21's high powered 50-U.S. state, Mexico, Southern Canada and Caribbean coverage is proving to be in great demand across multiple segments: media, enterprise and government. It is currently providing service to customers such as PBS, U.S. Army, U.S. Marine Corps (through Arrowhead), U.S. Northern Command (through ARTEL) and maritime broadband users.

WORLDSPACE FILES FOR BANKRUPTCY

Satellite operator WorldSpace has filed for Chapter 11 bankruptcy protection after repeated failures to meet debt obligations and to pay its employees. The company, which broadcasts its satellite radio services to more than 170,000 paid subscribers in 10 countries throughout Europe, Africa and Asia, sought Chapter 11 protection in the U.S Bankruptcy Court in Wilmington. It listed assets of US$ 307.4 million and liabilities of US$ 2.12 billion.

VERIZON DELIVERS 1,000 HD VOD OFFERINGS

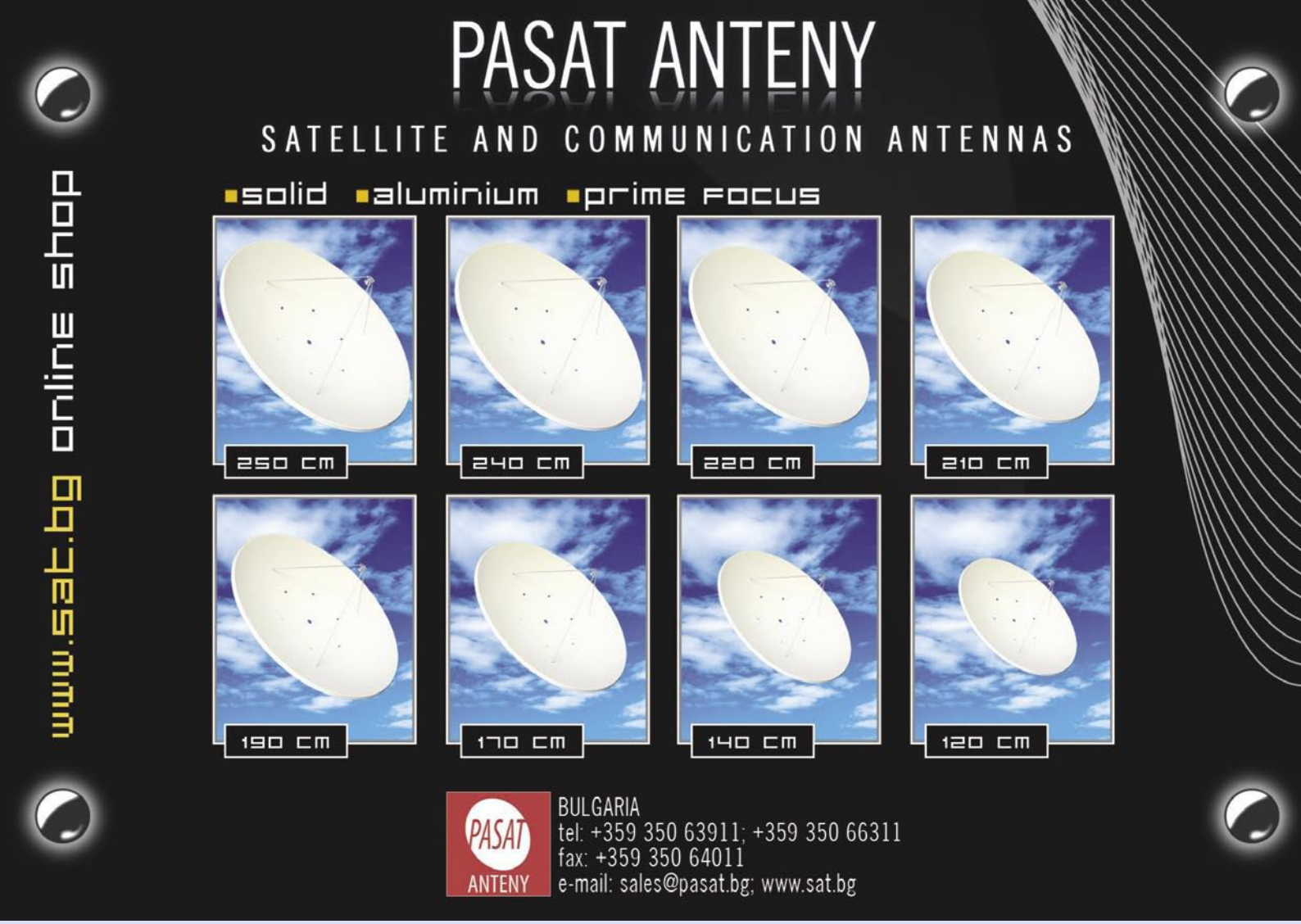
Verizon's FiOS TV customers can now enjoy more than 1,000 HD video-on-demand (VOD) titles per month, including HD content from several movie channels: Starz, Showtime and Sundance Channel. Verizon's FiOS TV VOD library offers titles that encompass a broad range of interests, including kids, music, pop culture, Spanish language, and home and leisure. The library offers more than 11,000 titles per month - 8,500 are free of charge.

ION TV SUITE TO LAUNCH IN HD DURING 2009

ION Media Networks has plans to launch its suite of networks - ION Television, qubo, and ION Life -- in high definition (HD) in 2009. ION Television, the Company's flagship general entertainment network, will be available as ION Television HD beginning the first quarter. The ION Television network features hit programs from CBS Television, NBC Universal, RHI Entertainment, Sony Pictures Television, Twentieth Television and Warner Bros., among others. ION Media Networks' digital TV brands, qubo, a multilingual kids network that champions literacy and positive values, and ION Life, a digital network dedicated to active lifestyles and personal growth, will also be upgraded to high definition later in 2009.

TV-DESI LAUNCHES NEW IPTV SERVICE FOR ASIANS

TV-Desi, a subsidiary of NeuLion and JumpTV, has launched a new IPTV service with a selection of live South Asian TV content to the Indian, Pakistani and Bangladeshi communities in North America. TV-Desi features a line-up of over 40 popular channels including: Sony Entertainment Television Asia, Indus TV, Aaj, NDTV, ATN, Ekushey, Diganta, RTV, Hum TV, Amrita TV, IBN-Lokmat, TV9 News as well as North American Desi channels ITV, ASC and many others. The live TV package



starts at USD 29.99 per month, while a la carte channels are offered starting from USD 3.99.

TWIN LAKES TELEPHONE COOPERATIVE LAUNCHES IPTV TRIALS

Twin Lakes Telephone Cooperative Corporation (Twin Lakes), based in the state of Tennessee, has installed and successfully tested its new IPTV services, based on a platform supplied by Infinite Video, a subsidiary of Canadian firm Event Technologies. With board approval, Twin Lakes will contract to deploy the system to offer 11 broadcast channels over its existing DSL network, including local television programming.

LATIN AMERICA

COLOMBIA

EMCALI AIMS FOR 13,000 IPTV CLIENTS

Colombian multi-utility Emcali expects to reach approximately 13,000 IPTV subscribers once the company launches the service. The company, which serves the city of Cali, currently has 70,000 clients in the broadband segment. National TV services regulator CNTV will soon open a bidding process for five licenses for pay-TV services, with Emcali expected to bid for one. ZTE has been selected as the technological partner.

VENEZUELA

VENESAT-1 LAUNCHED INTO ORBIT

The country's first satellite Simon Bolivar or Venesat-1 was successfully launched on October 29 as part of a joint project with China that started three years ago. The whole project is to cost USD 406 million and the Venesat-1, with a designed life of 15 years, will be used in broadcasting, distance learning, medical services, among others. The satellite became operational on December 20. Venezuela intends to launch its second satellite, for its own use, in 2013.

ASIA

GOLDSTONE TO LAUNCH IPTV SERVICES IN MALAYSIA, THAILAND

Software technology and services company Goldstone Technologies will launch IPTV services in two South-East Asian countries—Malaysia and Thailand. Goldstone has tied-up with MOL AccessPortal Berhad (MOL) of Malaysia to launch the IPTV service in Malaysia.

ORBITAL COMPLETES WORK ON NSS-9 SATELLITE

Orbital Sciences Corporation (ORB) has completed final testing on the SES New Skies NSS-9 commercial communications satellite. The NSS-9 will now be stored at the company's Dulles (Virginia) facilities until the company is notified of the launch date. Orbital stated that the spacecraft was designed, manufactured and tested in approximately 22 months from the start of the contract to the completion of the pre-shipment review. NSS-9 carries 28 active C-band transponders and features three beams that can be interconnected on a transponder-by-transponder basis: a global beam providing coverage of the entire earth visible from its 183 degrees East orbit slot, another beam covering Australia, Indonesia, the Philippines, Japan, China, Korea and the Pacific Islands, and a third beam providing coverage and connectivity to the U.S., Hawaii and Polynesia.

IPTV TO REACH 22.4 MILLION SUBSCRIBERS BY 2013

Market research firm Frost & Sullivan has estimated that the number of IPTV subscribers across 13 countries in the Asia-Pacific region may grow to 22.4 million by 2013. The latest research titled "IPTV Business Case" predicts that IPTV subscription will grow by an amazing 32.7 per cent over the next four years. Of the 13 countries, the researcher says, eight had commercial IPTV services in 2007, while the rest are conducting trials for deployments over the coming months. Asia-Pacific accounted for about a third of the global IPTV subscriber base last year. While Hong Kong is leading the group with 1.02 million subscribers, Mainland China is running close behind with 0.93 million customers, a figure that makes up 22.7 percent of the region's market.

CHINA

CHINA TELECOM TOPS 1.5 MILLION IPTV SUBSCRIBERS

China Telecom passed 1.51 million IPTV subscribers by the end of the third quarter of this year, according to Interfax China, compared to 940,000 subscribers reported in May of this year. The service is provided in cooperation with Shanghai Media Group (SMG) and has been available in major cities such as Shanghai, Jiangxu, Guangdong, Zhejiang and Shaanxi since 2005, offering broadcast and on-demand content, including high-definition, as well as information services.

JIANGSU PROVINCE IPTV SUBSCRIBERS UP 471 PERCENT

The number of IPTV subscribers in China's Jiangsu Province, located on the east coast of the country, rose by 471% in the first nine months of this year, according to Interfax China, making this the biggest

rise in IPTV adoption in the country during the period. Jiangsu Province had an IPTV subscriber base of over 200,000 by the end of September 2008, compared to 35,000 at the end of 2007. The province's growth rate has even exceeded Shanghai, which witnessed a growth of around 150% during the first nine months of this year to reach over 600,000 IPTV subscribers at the end of September.

SMC TO LAUNCH IPTV IN GUANDONG PROVINCE

Southern Media Corp. (SMC) plans to launch a new interactive TV and IPTV platform in the Guangdong Province in 2009, according to Interfax China. The platform is expected to be put into operation at the beginning of 2009, covering 50,000 trial users, and at full capacity is expected to be able to support 700,000 users simultaneously. The platform will reportedly be connected to the local hybrid fibre-coaxial (HFC) network in Guangdong Province and China Telecom's IPTV network, with the IPTV content to be carried on China Telecom's IPTV network.

HUAXIA NETWORK RECEIVES IPTV LICENSE

China's State Administration of Radio, Film and Television (SARFT) has issued a new IPTV licence to Beijing firm Huaxia Network. The SARFT has previously awarded licences to operators including China Central Television (CCTV), Shanghai Media Group (SMG), Southern Media Corporation (SMC), China Radio International (CRI) and Hangzhou-based Wasu. The IPTV licence covers the delivery of broadcast programming to televisions, while video-sharing websites currently have permits for audio-visual programming to be received by computers.

UTSTARCOM GETS IPTV ORDER FROM HUNAN PROVINCE

UTStarcom has signed an agreement with Best Tone Information Service Corporation to deploy a video information distribution network in Hunan province of China. The network would provide a fresh revenue source for UTStarcom through video advertisement in the province. As much as 3,500 iPAD1000 terminals are scheduled to go live in office buildings, government facilities, supermarkets, hotels, hospitals and schools in Hunan Province this year. The iPAD1000 technology could integrate UTStarcom's RollingStream IPTV set-top boxes, ADSL modem, Wi-Fi adapter, IPTV network connection and video monitor into a single terminal station.

INDIA

AKSH TARGETS 40,000 IPTV SUBSCRIBERS

Aksh Optifibre intends to increase its IPTV subscriber base to 40,000 by 2008-end. The company, trying to diversify into services by launching its IPTV services in 22 cities, currently has around 8,000 subscribers in Delhi and 2,000 in Mumbai. It is in the process of raising funds to part fund its ambitious expansion across north India. It rolls out its TV services over the copper-line infrastructure of public sector telecom operators such as MTNL and BSNL.

BHARTI AIRTEL TO LAUNCH IPTV IN SIX CITIES

After launching a DTH service, Bharti Airtel have started a trial run of their proposed IPTV service in New Delhi and are now planning to launch its commercial services in six cities (Delhi, Mumbai, Kolkata, Chennai, Bangalore and Hyderabad) soon. According to the president of telecom services, Atul Bindal, currently 1,000 households in New Delhi are covered on a pilot basis. Airtel currently has 2.5 million customers for both landline and broadband, whom it plans to target with IPTV services.

BNSL TO LAUNCH IPTV SERVICE IN PUNJAB

Ludhiana will soon become the first city in Punjab to receive the IPTV service, which will be launched in January 2009 by BNSL. The ISP is targeting a cable TV subscriber base of about 82 million users by counting on their 30 million landline subscribers across the country. After launching IPTV services in Jaipur and Jodhpur in Rajasthan in September, the company is planning to bring IPTV to more than 100 cities. BSNL will provide 120 TV channels to its broadband subscribers at a monthly rental of Rs 150, apart from a security deposit of Rs. 999 for a set-top box.

DTH OPERATORS TO OFFER HD CONTENT

DTH operators such as Dish TV and Sun Direct are planning to add HD content as a separate bouquet in the next few months. Currently, the popular DTH bouquets (80-120 channels) are available at Rs 150-300 a month across most DTH platforms. The HD bouquet of 10-15 channels may cost 20-30 per cent more than the regular bouquet, sources said. Dish TV will add the HD content once it gets additional transponder space on Protostar satellite, Sun Direct is launching its own HD channels on the existing transponder bandwidth, while others like Tata Sky, Big TV and Airtel's Digital TV are also expected to follow suit.

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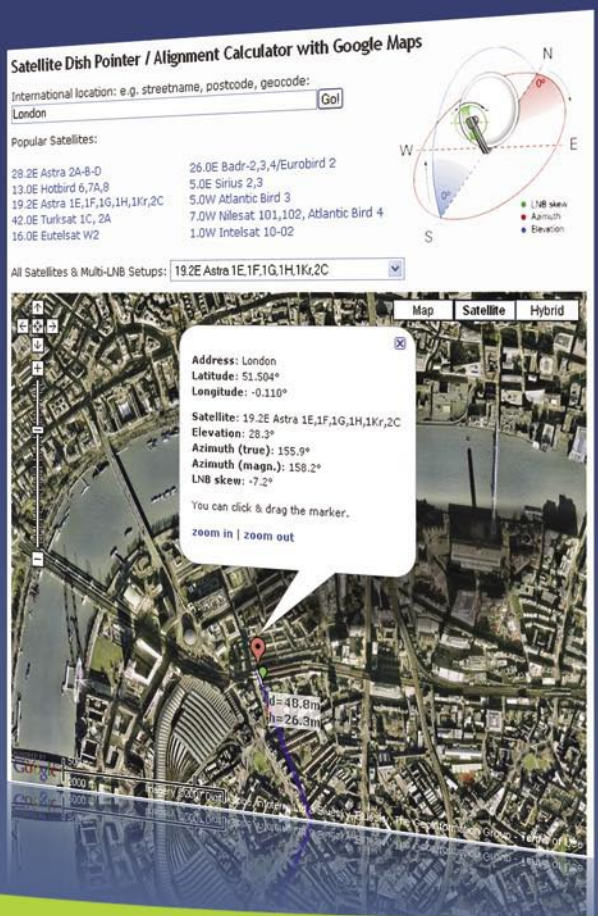

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DISHPOINTER Software Solution that, with the help of Google Maps and its real images as well as SatcoDX and its up-to-date channel data, provides highly accurate satellite reception information.

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JAPAN

NHK LAUNCHES ON DEMAND INTERNET PAY-TV

Japan Broadcasting Corp (NHK) has started an on-demand distribution of TV programmes for a fee over the internet. The service comprises two types of programme - recently missed programmes that are available for about one week after their initial airing including popular daily short dramas, and those in NHK's "library" comprising around 1,200 archived programmes including those that drew strong viewer interest in the past. The programmes are offered at 105-315 yen each. A monthly package plan is also available for missed programmes.

JAPAN WITH OVER 3 MILLION IPTV SUBSCRIBERS BY 2012

Japan is expected to top 3 million IPTV subscribers by 2012, according to new figures from research firm ROA Group, with approximately 10% of the predicted total to be accounted for by fibre-to-the-home (FTTH) subscribers, while IPTV's penetration will reach 6% by 2012. The average growth rate of IPTV subscribers in the country between 2006 and 2012 is expected to reach 65%, with Japan expected to close 2008 with an estimated 400,000 subscribers. Three companies are currently providing IPTV services in Japan, according to the research firm - NTT Plara with its offering 'Hikari TV', KDDI with its service 'Hikari One TV', and BB Cable Corporation with its offering 'BBTV'.

MITSUBISHI ELECTRIC GETS ORDER FOR ST-2 SATELLITE

Mitsubishi Electric has received an order to build the ST-2 communications satellite for a joint venture between Singapore's SingTel and Taiwan's Chunghwa. Currently, SingTel and Chunghwa jointly own the ST-1 and use this satellite in their various communications businesses. The ST-2 will succeed the ST-1 as their next communications satellite. For the production of the ST-2, Mitsubishi Electric has proposed to use its original DS2000 satellite bus platform, which was developed based on the Engineering Test Satellite-8 (ETS-8) made for NASDA.

KAZAKHSTAN

KAZAKH SATELLITE BROUGHT BACK INTO ORBIT

Experts have managed to bring a malfunctioning Kazakh satellite, KazSat-1, back into geostationary orbit. The US$ 65 million satellite stopped broadcasting on June 8. The Khrunichev space research and production centre said it had fixed the problem together with Kazakh specialists earlier in October, and the satellite would resume its regular operation once all of its systems had been tested. Khrunichev is currently building a second satellite for Kazakhstan, KazSat-2, in cooperation with Russian and foreign companies, including the Russian Institute of Space Engineering and European company Alcatel Alenia Space. KazSat-2 is to be launched in 2009.

LEBANON

ORANGE AND SOLIDERE LAUNCH FIRST IPTV SERVICE

Orange Business Services and Solidere have launched Lebanon's first IPTV service with 120 on-demand TV channels in central Beirut with a range of movies, sports and TV programs streamed directly to their TVs over a state-of-the-art Metro Ethernet network. It is believed to be one of the first commercially available IPTV services in the Middle East, and the first to support broadcast and on-demand HDTV. The service has been delivered, installed, supported and integrated into the existing Solidere-operated private broadband network that was designed and deployed by Orange in 2006.

PAKISTAN

PTCL REPORTS OVER 1,000 IPTV SUBSCRIBERS

Pakistan Telecommunication Company (PTCL) has reported that its new IPTV service now has 1,070 customers, following its launch in four major cities in the country. Launched last August, the service has subsequently been introduced in five major cities in Azad Jammu and Kashmir, and will be expanded to 144 other cities shortly. Initially, 100 TV channels are available and the IPTV service is free of charge until February 2009.

SINGAPORE

VOOM TEAMS UP WITH IFW FOR 2009 LAUNCH

Voom HD Holdings has signed a co-production and distribution deal with Singapore's Infinite Frameworks (IFW), in a bid to ramp up high-definition programming over the next five years. The deal sees each partner investing US$ 10 million in production and post-production, in collaboration with productions worldwide, to develop an HD slate across sports, art, lifestyle, fashion and music. All post-production will be handled at IFW's Singapore facilities, and the company also receives support from the Media Development Authority of Singapore (MDA).

STARHUB LAUNCHES NEW HD DVR

Pay-TV operator Starhub has launched a new HD DVR – HubStation HD – which enables customers to watch and record both SD and HD programmes. The HubStation HD also provides access to free broadband Internet service and StarHub's Digital Voice service. Starhub launched the first com-

mercial HD service in Southeast Asia in January 2007. Since then, the number of HD channels offered by StarHub TV has grown to five - HD5, NGC HD, Discovery HD, The History Channel HD and Sports HD. HD5 is offered to all StarHub TV customers at no extra cost while Sports HD is made available free to Sports Group customers. The other three channels are packaged together under the Education HD group.

SOUTH KOREA

KT TO OFFER NATIONAL TV CHANNELS ON IPTV

KT has reached agreements with KBS and SBS over the retransmission of their content for Web-based television. The company said it was also close to reaching an agreement with MBC, meaning that the programs of all three terrestrial broadcasters will be available on Mega TV, the company's IPTV brand. Other IPTV operators, SK Broadband and LG Dacom, are also in talks with the television networks for similar arrangements.

SK BROADBAND SELECTS TANDBERG FOR IPTV

SK Broadband is deploying a Tandberg Television IPTV head end, which includes HD and SD MPEG-4 AVC encoding. This solution will enable SK Broadband to launch linear broadcast television services in 2009, following the recent granting of regulatory approval for Korean IPTV providers to introduce broadcast services to complement existing VOD content. SK Broadband intends to introduce 30 SD and 10 HD channels initially.

TAIWAN

CHUNGWA TELECOM ENDS Q3 WITH 591,000 SUBSCRIBERS

Chunghwa Telecom reached 591,000 subscribers for its 'Multimedia On Demand' (MOD) IPTV service at the end of the third quarter of this year, of which 82,000 were new subscriptions added during the period, representing a 65.2% increase year-on-year. The operator had a total of 4.32 million broadband subscribers as of the end of last September, including ADSL and fibre-to-the-building (FTB) subscribers, an increase of 2.4% from the same time last year.

UNITED ARAB EMIRATES

AL ROSTAMANI PARTNERS WITH NAGRAVISION ON IPTV PLATFORM

Al Rostamani Communications has partnered with Nagravision to offer telecoms operators in the Middle East a complete end-to-end IPTV/Video on Demand platform. The Nagravision platform provides access control, rights management, EPG and content protection, while Al Rostamani Communications will provide the system integration services to assist telecoms operators to deliver their digital TV services, including HD content and on-demand programming, to any of the three screens of TV, PC and mobile device.

DU SURPASSES 50,000 IPTV SUBSCRIBER MARK

du has passed 50,000 subscribers for its IPTV service, a multilingual offering offering both local and international channels, secured by content protection technology from UK firm Latens. du selected Latens IPCAS, a software-based CAS for IPTV, replacing traditional smart cards with Secure Software Modules and removing the cost of additional hardware while decreasing time to launch.

AUSTRALIA & PACIFIC

NEW ZEALAND

FREEVIEW LAUNCHES HD BOX

The free-to-air equivalent of Sky's Television's MySky HDi set-top box has gone on sale in New Zealand, allowing Freeview viewers record simultaneous programmes and pause and rewind "live" television at the touch of a button. The boxes are selling for around $1000, but prices are likely to fall relatively quickly. The box can store 80 hours of high definition TV programmes or 240 hours of SD programmes, and double as a digital receiver. Sky TV announced in November that 31,000 of its subscribers were renting its MySky HDi personal video recorders.

AFRICA

ARIANESPACE TO LAUNCH RASCOM SATELLITE IN 2010

Arianespace and Thales Alenia Space have signed a launch service and solutions contract for the pan-African communications satellite, Rascom-QAF 1R which is scheduled for launch into geostationary transfer orbit in 2010. It will be launched by an Ariane 5 or Soyuz rocket from Europe's Spaceport in French Guiana. Rascom-QAF 1R will provide telecommunication services in rural areas of Africa over a period of 15 years, along with domestic and international connections, direct TV broadcast services and internet access. It will be equipped with 12 Ku-band transponders and eight C-band transponders. Replacing Rascom-QAF 1, it will be positioned at 2.85 degrees east.

NIGERIA

TECHNICAL PROBLEMS SHUT DOWN NIGERIAN SATELLITE

A Nigerian satellite - which was launched to provide phone, broadband Internet and broadcasting services to rural Africa - was switched off in December due to technical problems. The US$ 257 million Chinese-built satellite was launched into space from China in May 2007. It was expected to boost Nigeria's communications revolution and further the drive to make Internet technology accessible to the remote rural villages of the continent.

SOUTH AFRICA

SECUREMEDIA SELECTED FOR IPTV CONTENT PROTECTION

Goal Technology Solutions, based in Johannesburg, is to launch a triple-play service including IPTV across its GoalNet Network, secured by SecureMedia's Encryptonite ONE CA/DRM system. Goal Technology Solutions operates a fibre-to-the-kiosk (FTTK) and Powerline Communication access network for the delivery of its triple-play service, which it is reportedly planning on expanding to other major population centres in South Africa and neighbouring territories.

WORLD

ATIS RELEASES NEW IPTV STANDARD

The Alliance for Telecommunications Industry Solutions (ATIS) has released a new standard created by the ATIS IPTV Interoperability Forum (IIF) specifying the initial set of activities that prepare devices in the consumer domain to receive and consume IPTV services. The new Network Attachment and Initialization of Devices and Client Discovery of IPTV Services (AIS-0800017) standard is described by ATIS as a foundation specification addressing fundamentals such as the initialisation and attachment phases for the Delivery (home) Network Gateway (DNG) and the IPTV Terminal Function (ITF), which includes the set-top box. Specifically, the new release covers network attachment, service provider discovery, service provider attachment and services discovery procedures.

INTELSAT RETIRES MARISAT-F2 SATELLITE

After 32 years of serving ships at sea and scientists at the South Pole, an aging communications satellite owned by Intelsat has been retired. The Marisat-F2 satellite, manufactured by Hughes Aircraft and launched in 1976, had only a five-year design life, yet until the end, the communications payload continued operating within its original specifications, Intelsat engineers said. Once dubbed "The Little Satellite That Could," Marisat-F2 is believed to have been the oldest commercial communications satellite still actively operating in space. The final assignment of Marisat-F2 had been to provide Internet service to research scientists stationed at the Amundsen-Scott South Pole Station.

MTVNHD SET FOR GLOBAL ROLL OUT

MTV Networks (MTVN) is set to roll out its high-definition channel MTVNHD on the UK's Sky platform and Israel's Hot, and across Latin America. MTVNHD will be available in the UK, Israel, Argentina, Chile, Colombia, Venezuela, Peru, Ecuador, the Caribbean Islands and Uruguay by the end of 2008.

GLOBAL IPTV SUBSCRIBERS TO REACH 89.6 MILLION IN 2012

The number of global IPTV subscribers will hit 89.6 million in 2012, up from 20.4 million this year, according to Multimedia Research Group's latest IPTV Global Forecast. By region, Europe is expected to be ahead of Asia in 2012, with a 41.5 per cent share of the global IPTV market, followed by Asia with 35.8 per cent. North America will have just a 17 per cent share of total worldwide subscribers. It will, however, lead the market in terms of gross service revenues, raking in about US$ 13 billion, thanks to a higher ARPU.

MORE THAN 1500 NEW TRANSPONDER LEASES IN NEXT TEN YEARS

NSR's latest multi-client market research report, the "Global Assessment of Satellite Demand, 5th Edition," projects that the commercial satellite transponder leasing market should emerge relatively unscathed from the current global economic crisis. Between 2007 and 2017, NSR forecasts that global demand for commercial C- and Ku-band transponders will increase by more than 1,500 36 MHz transponder equivalents, and revenues will grow at the average annual rate of 4.5%. NSR anticipates that the majority of transponder demand growth in the coming ten years will be generated by various video services. In fact, 83% of the newly leased transponders will be for video distribution, DTH and video contribution & occasional use television services. On the revenues side of the picture, NSR estimated that the industry generated US$ 8.33 billion in 2007 from commercial C- and Ku-band capacity leasing, and this should grow to US$ 12.90 billion in 2017.

BNS LAUNCHES HD VOD VIA IPTV

BNS has launched an advanced in-room entertainment, room control and A/V solution for hotels and multi dwelling unit (MDU) developers looking to meet their customers' expectations for HD content delivered to their room. Part of the offering includes state-of-the-art room automation and A/V facility design and installation that are based on IP delivery. Connected via an IP network, the system is centrally programmed and controlled via an easy to operate management software. It is easy to operate and integrates seamlessly with existing Property Management Systems (PMS).

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- The Indian entertainment and media industry is estimated to be approximately US$ 30 billion by 2012 at a compounded annual growth rate of 18 % per annum.
- There are over 400 satellite TV channels registered with the Ministry of Information & Broadcasting in India.
- By 2010, about 16% of an estimated 100 million CAS households in India are expected to move to DTH.

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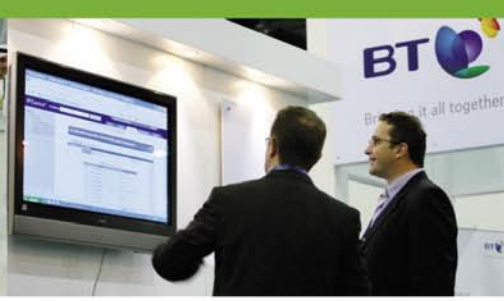

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Exhibition Preview

- **3 - 5 March 2009: CABSAT 2009**
  Middle East's Electronic Media & Satellite Communications
  Dubai World Trade Center, UAE
  www.cabsat.com

- **18 - 20 March 2009: Convergence India 2009**
  17th International Exhibition & Conference
  Pragati Maidan, New Delhi, India
  www.convergenceindia.org

- **21 - 23 March: CCBN 2009**
  The 17th China Content Broadcasting Network Exhibition
  China International Exhibition Center, Beijing, China
  www.ccbn.tv

- **25 - 27 March 2009: Satellite 2009**
  Exhibition for Satellite Enabled Communication
  Walter E. Washington Convention Center, Washington, USA
  www.satellite2009.com

- **25 - 27 May 2009: MECOM 2009**
  Middle East Communications Exhibition, Forum, TV
  Abu Dhabi National Exhibition Centre, Abu Dhabi, UAE
  www.mecomexpo.com

- **26 - 28 May 2009: ANGACABLE 2009**
  Tradefair for Cable, Broadband and Satellite
  Koelnmesse, Cologne, Germany
  www.angacable.com

- **16 - 19 June 2009: CommunicAsia 2009**
  20th International Communications and Information Technology Exhibition & Conference
  Singapore Expo, 1 Expo Drive, Singapore 486150
  www.communicasia.com

- **26 - 28 August 2009: SET 2009**
  18th Broadcast & Cable International Fair
  Centro de Exposições, Rod. dos Imigrantes
  04329-900 São Paulo (SP), Brasil
  www.broadcastcable.com.br

- **6 - 11 October 2009: CeBIT Eurasia**
  ICT Trade Show
  Tüyap Fuar ve Kongre Merkezi
  E5 Karayolu, Gürpınar Kavşağı, 34522 Büyükçekmece
  İstanbul, Turkey

TELE-satellite Deadlines

Editorial Deadlines, Magazine Publishing Dates

Number	Issue	Deadline	Hardcopies	Available Online
#210	04/2009	6 February 2009	13 March 2009	27 March 2009
#211	06/2009	3 April 2009	15 May 2009	29 May 2009
#212	08/2009	5 June 2009	17 July 2009	31 July 2009
#213	12/2009	2 October 2009	13 November 2009	27 November 2009
#214	02/2010	4 December 2009	15 January 2010	29 January 2010

SatcoDX Global Satellite Chart

Compiled by the Worldwide SatcoDX Monitoring Stations, exclusively for TELE-satellite Magazine

New Channels Since Last Issue of TELE-satellite Magazine are marked with a ●

EUROBIRD 4
4.0 East
EUB004WX

11.160	H	AFLENZ E-S	27500
12.130	V	DVBS2	27500
12.130	V	Standard_TV	27500

Europe
SIRIUS 4
5.0 East
SIR004EU

11.725	H	EbS Europe By Satell	27500
11.725	H	EU Test	27500
● 11.766	H	UT-1	27500
11.766	H	KANAL UKRAINA	27500
11.766	H	TET	27500
11.766	H	Channel 5 (Ukraine)	27500
11.766	H	GLAS	27500
11.766	H	KRT	27500
11.766	H	NOVY CHANNEL	27500
11.766	H	RADA	27500
11.766	H	Star TV UKR	27500
11.766	H	Love Radio	27500
11.766	H	RADIO ERA	27500
11.766	H	Radio Test	27500
11.766	H	RUI	27500
11.766	H	UR1	27500
11.766	H	UR2	27500
11.766	H	UR3	27500
12.072	H	OSK-Odessa	27500
12.072	H	ENTER	27500
12.072	H	ENTER-FILM	27500
12.072	H	INTER+	27500
12.072	H	SCI	27500
12.072	H	UBC	27500
12.072	H	Univermag	27500
12.072	H	Emmanuel	27500
12.149	H	Antena 3	27500
12.149	H	AXN	27500
12.149	H	AXN Crime	27500
12.149	H	AXN SciFi	27500
● 12.149	H	Da Vinci Learning	27500
12.149	H	Euforia Lifestyle	27500
12.149	H	Eurosport	27500
12.149	H	Kanal D	27500
12.149	H	MTV	27500
12.149	H	OTV	27500
12.149	H	Prima TV	27500
12.149	H	Realitatea	27500
12.149	H	TV Sport	27500
12.149	H	TVR 1	27500
12.149	H	TVR 2	27500
12.149	H	TVRM	27500
● 12.149	H	AKTA Info	27500
12.149	H	ProFM	27500
12.149	H	InfoPro	27500
12.149	H	Radio SON	27500
12.149	H	Romantic	27500
12.265	H	Boomerang	27500
12.265	H	Cartoon Network	27500
12.265	H	Eurosport 2	27500
12.265	H	Hallmark	27500
12.265	H	Jetix	27500
12.265	H	Jetix Play	27500
12.265	H	Minimax	27500
12.265	H	Movies 24	27500
12.265	H	Romantica	27500
12.265	H	TCM	27500
● 12.265	H	Test	27500
12.265	H	TVR Cultural	27500
12.265	H	Canal Teleshop	27500
12.265	H	Etno	27500
12.265	H	Meteo	27500
12.265	H	Taraf	27500
12.341	H	Acasa Tv	27500
12.341	H	Animal Planet	27500
12.341	H	Antena 1	27500
12.341	H	B1	27500
12.341	H	Cinemax	27500
12.341	H	Discovery	27500
12.341	H	FreeXTV	27500
12.341	H	HBO	27500
12.341	H	HBO Comedy	27500
12.341	H	National Tv	27500
12.341	H	Pro Cinema	27500
12.341	H	Pro Tv	27500
12.341	H	Telesport	27500
12.341	H	X Dream TV	27500
12.380	H	ATG EU BSS	27500
12.380	H	Harness Racing	27500
12.380	H	NTV	27500
12.380	H	Thoroughbred Racing	27500
12.380	H	TVCI new	27500
12.380	H	Belsat TV	27500
12.380	H	LTV World	27500
12.380	H	Multimania	27500
12.380	H	European Radio for B	27500
12.418	H	Alphameric Games	27500
12.418	H	Alphameric Games plu	27500
12.418	H	Alphameric Studio	27500
12.418	H	Alphameric Studio pl	27500
12.418	H	ATRi - English	27500
12.418	H	ATRi - German	27500
12.418	H	Betfred	27500
12.418	H	BOYLES SPORTS	27500
12.418	H	BRAND TV DEMO	27500
12.418	H	BTC Alpha Irish Da	27500
12.418	H	BTC Alpha UK Data	27500
12.418	H	CCC TEST CHANNEL	27500
12.418	H	CORAL - SIRIUS	27500
12.418	H	CORAL WITH SIS DA	27500
12.418	H	EMP TEST CHANNEL	27500
12.418	H	EURO RACING - NO	27500
12.418	H	EURO RACING - SIR	27500
12.418	H	Intertrack-Data To	27500
12.418	H	iSIS Channel	27500
12.418	H	LADBROKES IP DATA	27500
12.418	H	LTEST	27500
12.418	H	LXTRA SILVER	27500
12.418	H	SIS BTC - Vision a	27500
12.418	H	SIS Racing - Data	27500
12.418	H	SIS Racing - Germ	27500
12.418	H	SIS Racing - Germ	27500
12.418	H	SIS Racing - INDE	27500
12.418	H	SIS UK BTC	27500
12.418	H	SIS+	27500
12.418	H	SPECIAL LADBROKES	27500
12.418	H	SPECIAL WILLIAM H	27500
12.418	H	STAN JAMES	27500
12.418	H	TEMP LADBROKES EI	27500
12.418	H	TEST2	27500
12.418	H	TOTE - SIRIUS	27500
12.418	H	TOTE SIS AUDIO AN	27500
12.418	H	VISION AUDIO AND	27500
12.418	H	WHO IP CLEAR	27500
12.418	H	WILLIAM HILL - SI	27500
12.418	H	ALT VC 11	27500
12.418	H	ALT VC 140	27500
12.418	H	ALT VC 145	27500
12.418	H	ALT VC 160	27500
12.418	H	ALT VC 20	27500
12.418	H	ALT VC 29	27500
12.418	H	ALT VC 33	27500
12.418	H	ALT VC 39	27500
12.418	H	ALT VC 40	27500
12.418	H	ALT VC 49	27500
12.418	H	ALT VC 50	27500
12.418	H	ALT VC 53	27500
12.418	H	ALT VC 59	27500
12.418	H	AUDIO AND DATA ON	27500
12.418	H	EMP TEST ALT CHAN	27500
12.418	H	SIS Racing - Audi	27500
12.418	H	TEST CHANNEL 135	27500
12.608	H	TV 1000 Ru Kino FS	27500
12.608	H	Tv1000 Action East	27500
12.608	H	TV1000 East FSS	27500
12.608	H	TV6 Hungary FSS	27500
12.608	H	Viasat Sport FSS	27500
12.608	H	Viasat3 FSS	27500
12.637	H	Explorer/Spice(FSS)	14463
12.637	H	TV1000 Balkan FSS	14463
12.637	H	TV1000 Poland (FSS	14463
12.637	H	Viasat History (FSS)	14463

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11.747	V	TV4	27500
11.747	V	Allsvenskan 1	27500
11.747	V	Allsvenskan 2	27500
11.747	V	Allsvenskan 3	27500
11.747	V	Allsvenskan 4	27500
11.747	V	Allsvenskan 5	27500
11.747	V	Viasat Xtra 1	27500
11.747	V	Viasat Xtra 2	27500
11.747	V	Viasat Xtra 3	27500
11.747	V	Viasat Xtra 4	27500
11.747	V	Viasat Xtra 5	27500
● 11.747	V	Viasat Xtra 6	27500
11.785	V	SVT1 ABC	27500
11.785	V	SVT1 Gävledala	27500
11.785	V	SVT1 Mittnytt	27500
11.785	V	SVT1 Nordnytt	27500
11.785	V	SVT1 REG	27500
11.785	V	SVT1 Smålandsnytt	27500
11.785	V	SVT1 Sydnytt	27500
11.785	V	SVT1 Tvärsnytt	27500
11.785	V	SVT1 Värmlandsnytt	27500
11.785	V	SVT1 Västerbottensny	27500
11.785	V	SVT1 Västnytt	27500
11.785	V	SVT1 Östnytt	27500
11.785	V	SVT2 ABC	27500
11.785	V	SVT2 Gävledala	27500
11.785	V	SVT2 Mittnytt	27500
11.785	V	SVT2 Nordnytt	27500
11.785	V	SVT2 REG	27500
11.785	V	SVT2 Smålandsnytt	27500
11.785	V	SVT2 Sydnytt	27500
11.785	V	SVT2 Tvärsnytt	27500
11.785	V	SVT2 Värmlandsnytt	27500
11.785	V	SVT2 Västerbottensny	27500
11.785	V	SVT2 Västnytt	27500
11.785	V	SVT2 Östnytt	27500
11.804	H	MTV NO	27500
11.804	H	Ticket	27500
11.804	H	TV 2 Filmkanalen	27500
11.804	H	TV4 Film	27500
11.804	H	TV4 Plus	27500
11.804	H	TV400	27500
11.804	H	Viasat History	27500
11.804	H	Viasat Sport 2	27500
11.804	H	Viasat Sport 3	27500
11.823	V	CNN	27500
11.823	V	DR 1	27500
11.823	V	DR 2	27500
11.823	V	DR1	27500
11.823	V	DR2	27500
11.823	V	Explorer/Spice	27500
11.823	V	MTV DK	27500
11.823	V	TV 2 SPORT	27500
11.823	V	TV1000 Ru Kino	27500
11.823	V	TV8	27500
11.823	V	DR Klassisk	27500
11.823	V	DR P1	27500
11.823	V	DR P3	27500
11.843	H	1st Baltic Ch. Eston	27500
11.843	H	1st Baltic Ch. Latvi	27500
11.843	H	1st Baltic Ch. Lithu	27500
● 11.843	H	Lietuvos Rytas TV	27500
11.843	H	LNK	27500
11.843	H	LTV7	27500
11.843	H	Ren-TV B	27500
11.843	H	TV1 Lithuania	27500
11.843	H	1st Baltic Music Cha	27500
11.843	H	TV5	27500
11.862	V	FEM	27500
11.862	V	Nickelodeon nordic	27500
11.862	V	TV1000 Action East	27500
● 11.862	V	Viasat Fotboll	27500
● 11.862	V	Viasat Motor	27500
● 11.862	V	Viasat Sport Norge	27500
11.862	V	ztv.se	27500
11.862	V	Viasat Classic 2	27500
11.881	H	24	27500
11.881	H	Barnkanalen	27500
11.881	H	SVT1	27500
11.881	H	SVT2	27500
11.881	H	TV1000 Plus One	27500
11.881	H	TV1K+1	27500
11.881	H	GOD Channel	27500
11.881	H	Kanal 10	27500
11.881	H	Sirius Channel	27500
11.900	V	BTV	27500
11.900	V	Kanal 2	27500
11.900	V	MTV Baltics EE	27500
11.900	V	MTV Baltics LT	27500
11.900	V	MTV Baltics LV	27500
11.900	V	TV6 Estonia	27500
11.900	V	TV6 Latvia	27500
11.900	V	Viasat Sport	27500
11.900	V	RTR Planeta Baltic	27500
● 11.900	V	Radio Pukas	27500
11.919	H	MTV3 AVA	27500
11.919	H	MTV3 Fakta	27500
11.919	H	MTV3 MAX	27500
11.919	H	MTV3 Sarja	27500
11.919	H	Planeta Sport	27500
11.919	H	Sub Juniori	27500
11.919	H	Sub Leffa	27500
11.919	H	TV 2 Nyhetskanalen	27500
11.919	H	TV1000 Premium	27500
11.919	H	Viasat Golf	27500
11.938	V	Cartoon/TCM EE	27500
11.938	V	Discovery EE	27500
11.938	V	Nat Geo / CNBC	27500
11.938	V	RTR Planeta	27500
11.938	V	TV3 Mitt	27500
11.938	V	TV3 Norr	27500
11.938	V	TV3 Syd	27500
11.938	V	TV3 Väst	27500
11.938	V	TV3 Öst	27500
11.938	V	Bandit Rock	27500
11.938	V	Club/Dance	27500
11.938	V	Disco	27500
11.938	V	Golden Oldies	27500
11.938	V	Jazz	27500
11.938	V	Lugna Favoriter	27500
11.938	V	Soul R&b	27500
11.938	V	Star FM	27500
11.938	V	Super 80's	27500
11.938	V	Classic	27500
11.958	H	3+ Baltics	27500
11.958	H	3+ Baltics E	27500
11.958	H	ETV	27500
11.958	H	Lithuanian TV1	27500
11.958	H	LNT Latvia	27500
11.958	H	LTV1	27500
11.958	H	TV3 Estonia	27500
11.958	H	TV3 Latvia	27500
11.958	H	TV3 Lithuania	27500
11.958	H	TV6 Lithuania	27500
11.958	H	Power Hit Radio	27500
● 11.958	H	Star FM EE	27500
● 11.958	H	Star FM LV	27500
11.977	V	BBC World	27500
11.977	V	Hallmark	27500
11.977	V	MTV SE	27500
11.977	V	Nature/Crime/Playboy	27500
11.977	V	TV1000 East	27500
11.977	V	TV3+	27500
11.977	V	TV4 Fakta	27500
11.977	V	Viasat 4	27500
● 11.977	V	Viasat Sport Sverige	27500
11.977	V	P4 Norge	27500
11.996	H	K75 NORDEN	27500
11.996	H	Kanal 5	27500
11.996	H	SportN	27500
11.996	H	SvSp	27500
11.996	H	TVN Chile Nordic	27500
11.996	H	Russia today	27500
12.015	V	NRK Super / NRK3	27500
12.015	V	NRK1	27500
12.015	V	NRK1 Midtnytt	27500
12.015	V	NRK1 Møre og Romsdal	27500
12.015	V	NRK1 Nordland	27500
12.015	V	NRK1 Nordnytt	27500
12.015	V	NRK1 Rogaland	27500
12.015	V	NRK1 Sørlandet	27500
12.015	V	NRK1 Tegnspråk	27500
12.015	V	NRK1 Vestlandsrevyen	27500
12.015	V	NRK1 Østafjells	27500
12.015	V	NRK1 Østfold	27500
12.015	V	NRK1 Østnytt	27500
12.015	V	NRK2	27500
12.015	V	NRK Folkemusikk	27500
12.015	V	NRK Gull	27500
12.015	V	NRK Klassisk	27500
12.015	V	NRK mP3	27500
12.015	V	NRK Nyheter	27500
12.015	V	NRK P1	27500
12.015	V	NRK P2	27500
12.015	V	NRK P3	27500
12.015	V	NRK Sami Radio	27500
12.015	V	NRK Storting	27500
12.015	V	NRK Super	27500
12.015	V	NRK Været til sjøs	27500
12.034	H	Disney Channel	27500
12.034	H	E!	27500
12.034	H	NickelodeonSE/VH1	27500
12.034	H	Toon Disney	27500
12.034	H	TV1000 Classic	27500
12.034	H	TV1000 Family	27500
12.034	H	TV1000 Nordic	27500
12.034	H	TV1KC	27500
12.034	H	Zone Reality	27500
12.054	V	Cartoon/TCM	27500
12.054	V	Jetix/Travel	27500
12.054	V	TV1000	27500
12.054	V	TV1000 Action	27500
12.054	V	TV1K	27500
12.054	V	TV1KA	27500
12.054	V	TV3 Denmark	27500
12.054	V	TV3 Norge	27500
12.054	V	TV3 Stockholm	27500
12.054	V	TV6	27500
12.054	V	Bandit 106.3	27500
12.054	V	Rix FM	27500
12.092	V	Playhouse Disney	27500
12.092	V	TV 2 Norge	27500
12.092	V	TV2 NEWS	27500
12.092	V	TV4 Science Fiction	27500
12.092	V	TV4 Sport	27500
12.092	V	TV7	27500
12.092	V	TVNorge	27500
12.092	V	Visjon Norge	27500
12.399	V	TV 2 Sport HD	27500
12.399	V	Viasat Sport HD	27500
● 12.399	V	MTVNHD	27500
12.437	V	SVT HD	27500
12.437	V	TV1000 HD	27500
● 12.437	V	TV1000 HD_c	27500
12.476	V	TV 2/Bornholm	27500
12.476	V	TV 2/Fyn	27500
12.476	V	TV 2/Lorry	27500
12.476	V	TV 2/Midt-Vest	27500
12.476	V	TV 2/Nord	27500
12.476	V	TV 2/Syd	27500
12.476	V	TV 2/Øst	27500
12.476	V	TV 2/Østjylland	27500
12.680	H	A-One	9404
12.680	H	TEST2	9404
12.718	V	2T	15000
12.718	V	KiKo	15000
12.718	V	Planeta	15000
12.718	V	Svit	15000
● 12.718	V	Design-tv	15000
12.718	V	English_club	15000
12.718	V	NOVY DOM	15000
12.718	V	R-TV	15000
12.718	V	Turburo	15000

Europe
EUTELSAT W3A
7.0 East
EUTW3ABA

11.175	V	Int6	27500
11.175	V	TVP Info	27500
11.175	V	TVP Sport	27500
11.175	V	TVP1	27500
11.175	V	TVP2	27500
11.175	V	TV Polonia	27500
11.283	V	EUROSPORT	27500
11.283	V	EUROSPORT2	27500
11.283	V	EUROSPORTNEWS	27500
11.283	V	PROD ESP	27500
11.283	V	PROD ESP2	27500
11.283	V	M6_Suisse	27500
11.283	V	OCCA_1_W3	27500
● 11.283	V	RFI Newzik	27500
11.283	V	BuffaloGrill	27500
11.283	V	RFI Afrique	27500
11.283	V	RFI Albania	27500
11.283	V	RFI Americas 5	27500
11.283	V	RFI Anik	27500
11.283	V	RFI Austria	27500
11.283	V	RFI Bakou	27500
11.283	V	RFI Barcelona	27500
11.283	V	RFI BBC Hungary	27500
11.283	V	RFI BBC Saxe	27500
11.283	V	RFI Bucarest	27500
11.283	V	RFI Cambodge	27500
11.283	V	RFI Chisinau	27500
11.283	V	RFI Divers 1	27500
11.283	V	RFI Divers 2	27500
11.283	V	RFI Divers 3	27500
11.283	V	RFI Divers 4	27500
11.283	V	RFI Divers 5	27500
11.283	V	RFI Divers 6	27500
11.283	V	RFI Divers 7	27500
11.283	V	RFI Divers 8	27500
11.283	V	RFI Ekaterinbourg	27500
11.283	V	RFI Epra	27500
11.283	V	RFI Erevan	27500
11.283	V	RFI Fileas	27500
11.283	V	RFI Francais	27500
11.283	V	RFI Germany	27500
11.283	V	RFI Hispasat1	27500
11.283	V	RFI Hispasat2	27500
11.283	V	RFI Kosovo	27500
11.283	V	RFI Langues Div	27500
11.283	V	RFI Langues Est	27500
11.283	V	RFI Langues1	27500
11.283	V	RFI Latine	27500
11.283	V	RFI Liban	27500
11.283	V	RFI Lisbonne	27500
11.283	V	RFI Montenegro	27500
11.283	V	RFI Multilingue	27500
11.283	V	RFI Ocean Indien	27500
11.283	V	RFI Orbit	27500
11.283	V	RFI Prague	27500
11.283	V	RFI Reserve	27500
11.283	V	RFI Rmc Amman	27500
11.283	V	RFI Rmc Mo	27500
11.283	V	RFI Russia	27500
11.283	V	RFI Skopje	27500
11.283	V	RFI Sofia	27500
11.283	V	RFI St Peter	27500
11.283	V	RFI Tbilissi	27500
11.283	V	RFI Test	27500
11.324	V	BFBS 1	27500
11.324	V	BFBS 10	27500
11.324	V	BFBS 2	27500
11.324	V	BFBS 3	27500
11.324	V	BFBS 4	27500
11.324	V	BFBS 5	27500
11.324	V	BFBS 6	27500
11.324	V	BFBS 7	27500
11.324	V	BFBS 8	27500
11.324	V	BFBS 9	27500
11.324	V	AFGHANISTAN	27500
11.324	V	CONTRIBUTION*	27500
11.324	V	GERMANY*	27500
11.324	V	OPERATIONS*	27500
11.324	V	R2 CYPRUS	27500
11.324	V	R2 EUROPE	27500
11.324	V	R2 WORLD	27500
11.324	V	BALKANS	27500
11.324	V	BFBS UK	27500
11.324	V	CYPRUS	27500
11.324	V	EUROPE	27500
11.324	V	GURKHA	27500
11.324	V	M.EAST	27500
11.324	V	N.IRELAND	27500
11.345	H	ESP2 FAPL Clean	27500
11.345	H	ESP2 German	27500
11.345	H	2STV	27500
11.345	H	Africable	27500
11.345	H	ORTM	27500
11.345	H	RTS	27500
● 11.345	H	TPAI	27500
11.345	H	MOOD MEDIA	27500
11.345	H	MOOD RADIO	27500
11.345	H	Origine FM	27500
11.345	H	PUBLIRAD	27500
11.345	H	RSI	27500
11.452	V	ATA TV	25066
11.452	V	CHANNEL 1 RUSSIA	25066
11.452	V	E! ENTERTAINMENT	25066
11.452	V	HALK TV	25066
11.452	V	KANAL B	25066
11.452	V	SALONDA NE VAR?	25066
11.452	V	SES TV	25066
11.452	V	DIGI	25066
11.471	H	24	30000
11.471	H	BBC PRIME	30000
11.471	H	e2	30000
11.471	H	EURONEWS	30000
11.471	H	EUROSPORT 2	30000
11.471	H	EXTREME SPORTS	30000
11.471	H	FASHION TV	30000
11.471	H	FOXlife	30000
11.471	H	MEZZO	30000
11.471	H	MTV Türkiye	30000
11.471	H	NTV SPOR	30000
11.471	H	TVNET	30000
11.492	V	DIZIMAX	30000
11.492	V	HALLMARK CHANNEL	30000
11.492	V	LİG TV	30000
11.492	V	MEMLEKETİM TV	30000
11.492	V	SAMANYOLU TV	30000
11.492	V	SHOW PLUS	30000
11.492	V	TÜRKMAX	30000
11.492	V	WEDDING TV	30000
11.492	V	ZONE REALITY	30000
11.492	V	TRT1	30000
● 11.492	V	TRT2/TRT3	30000
11.492	V	test2	30000
11.492	V	testint	30000
11.513	H	BABY TV	27500
11.513	H	BABYFIRST	27500
11.513	H	CRIME&INVESTIGATI	27500
11.513	H	FLASH TV	27500
11.513	H	POWERTURK TV	27500
11.513	H	S HABER	27500
11.513	H	TV5 MONDE	27500
● 11.513	H	YUMURCAK TV	27500
11.513	H	İZ	27500
11.513	H	MASAL TV	27500

EUTW3ABB

10.880	V	EXQI sport	17360
10.880	V	HD1	17360
● 10.880	V	HD3	17360
10.880	V	HD2/5	17360
10.928	H	EUROSPORT HD	30000
10.928	H	LIG TV HD	30000
10.928	H	MMAX HD	30000
10.928	H	NAT GEO HD	30000
10.928	H	SPORMAX HD	30000
● 11.534	V	6 NEWS	30000
11.534	V	BBC WORLD	30000
11.534	V	BLOOMBERG	30000
11.534	V	CARTOON NETWORK	30000
11.534	V	CNBC-e	30000
11.534	V	CNN TÜRK	30000
11.534	V	KANAL 778	30000
11.534	V	KANALTURK	30000
11.534	V	KRAL TV	30000
11.534	V	MOVIEMAX	30000
11.534	V	NTV	30000
11.534	V	Test 453	30000
11.534	V	TV8	30000
11.554	H	AKILLI TV	27500
● 11.554	H	CEM TV	27500
11.554	H	DIGITURK INFO	27500
11.554	H	KANAL A	27500
11.554	H	KANAL BİZ	27500
11.554	H	KANAL T	27500
11.554	H	KARADENİZ TV	27500
11.554	H	SAUDI 1 TV	27500
11.575	V	JETIX	30000
11.575	V	JETIX PLAY	30000
11.575	V	KANAL 779	30000
11.575	V	KANAL D	30000
11.575	V	NBA TV	30000
11.575	V	SALON 2	30000
11.575	V	SHOW TV	30000
11.575	V	SHOWMAX	30000
● 11.575	V	TOUCH	30000
11.575	V	TURKCELL SALON 1	30000
11.575	V	VIP TV	30000
● 11.575	V	YACHT&SAIL	30000
11.595	H	AL JAZEERA English	30000
11.595	H	CNN INTERNATIONAL	30000
11.595	H	FB TV	30000
11.595	H	FOX SPORTS	30000
11.595	H	GOLDMAX 2	30000
11.595	H	HABERTURK	30000
11.595	H	LIG TV TICARI	30000
11.595	H	MYMAX	30000
11.595	H	RAI1	30000
11.595	H	SPORMAX	30000
11.595	H	TGRT HABER	30000
11.595	H	TJK TV	30000
11.595	H	test2.	30000
11.595	H	test455	30000
11.617	V	BTV 2	30000
11.617	V	HOME TV	30000
11.617	V	MCM TOP	30000
11.617	V	NAT. GEO. WILD	30000
11.617	V	NAT.GEOGRAPHIC	30000
11.617	V	NICKELODEON	30000
11.617	V	STAR	30000
11.617	V	THE HISTORY CH.	30000
11.617	V	VH1	30000
11.617	V	2000 s HITS	30000
11.617	V	50 s / 60 s HITS	30000
11.617	V	70 s HITS	30000
11.617	V	80 s HITS	30000
11.617	V	90 s HITS	30000
11.617	V	ALEM FM 89.2	30000
11.617	V	ALTERNATIVE ROCK	30000
11.617	V	ARIONRADIO.COM	30000
11.617	V	BLUES	30000
11.617	V	CHILL OUT / LOUNG	30000
11.617	V	CLASSIC ROCK	30000
11.617	V	CLASSICAL MUSIC	30000
11.617	V	DANCE	30000
11.617	V	DANCE CLASSICS	30000
11.617	V	EASY LISTENING	30000
11.617	V	HARD ROCK	30000
11.617	V	HIP HOP R&B	30000
11.617	V	HOTTEST HITS	30000
11.617	V	INTERNATIONAL	30000
11.617	V	JAZZ CLASSICS	30000
11.617	V	LATIN	30000
11.617	V	LİG RADYO	30000
11.617	V	MASAL RADYO	30000
11.617	V	NU JAZZ	30000
11.617	V	OPERA	30000
11.617	V	POWER FM	30000
11.617	V	POWERTÜRK	30000
11.617	V	R & B	30000
11.617	V	RADIO TIME	30000
11.617	V	RADYO SPOR	30000
11.617	V	REGGAE	30000
11.617	V	SMOOTH JAZZ	30000
11.617	V	SONGS OF LOVE	30000
11.617	V	STANDARDS	30000
11.617	V	SYMPHONIC	30000
11.617	V	YOGA ZONE	30000
11.617	V		30000
11.617	V	Test454	30000
11.637	H	ACTIONMAX	30000
11.637	H	AVRASYA TV	30000
11.637	H	BTV	30000
11.637	H	GOLDMAX	30000
11.637	H	INTIMACY	30000
11.637	H	JOJO	30000
11.637	H	JOLLY TATİL TV	30000
11.637	H	KANAL 1	30000
11.637	H	Kanal Biz	30000
11.637	H	MGM MOVIES	30000
11.637	H	PRO7	30000
11.637	H	TOUCH	30000
● 11.637	H	YACHT&SAIL	30000
11.637	H	DIGIOYUN	30000
11.679	H	ATV	30000
11.679	H	COMEDYMAX	30000
11.679	H	DISNEY CHANNEL	30000
11.679	H	DREAM TV	30000
11.679	H	EUROSPORT	30000
11.679	H	FOX	30000
11.679	H	KANAL 7	30000
11.679	H	MOVIEMAX 2	30000
11.679	H	NUMBER 1 TV	30000
11.679	H	SALON 3	30000
11.679	H	ÜLKE TV	30000
11.679	H	SKYTURK	30000

South Africa
EUTELSAT W3A
7.1 East
EUTW3AAB

10.978	H	MBS tv	3333
10.978	H	TVM Malagasy	3333
10.978	H	MBS Radio	3333
10.978	H	MG-InterFEEDS	3333
10.978	H	Radio Fahazavana	3333
10.978	H	Radio MADA	3333
10.978	H	RNM 2 Amontana	3333
10.978	H	RNM Madagasikara	3333
11.190	H	MBC-R0D. TV2 and	3210
11.190	H	R0DRIGUES TV1 and	3210
● 12.728	H	{Empty Name}	30000
10.962	H	TV Miramar	3255

Europe
EUROBIRD 9
9.0 East
EUB009KW

11.727	V	Discovery	27500
11.727	V	História	27500
11.727	V	Panda	27500
11.727	V	People & Arts	27500
11.727	V	RTP N	27500
11.727	V	SIC	27500
11.727	V	TVI	27500
11.727	V	RTP 1	27500
11.727	V	RTP 2	27500
11.727	V	ESPN	27500
11.727	V	Odisseia	27500
● 11.747	H	Bet Vision	27500
● 11.747	H	SISAL 1	27500
● 11.747	H	SISAL 2	27500
● 11.747	H	3 CH	27500
● 11.747	H	3D Switch	27500
● 11.747	H	BLU	27500
● 11.747	H	FacileTV	27500
● 11.747	H	GDS	27500
● 11.747	H	ITALIA 2	27500
● 11.747	H	REGIONE VENETO	27500
● 11.747	H	RETE 7	27500
● 11.747	H	SALENTO CHANNEL	27500
● 11.747	H	STUDIO 100 TV	27500
● 11.747	H	TVA VICENZA	27500
● 11.747	H	R&R SELEX	27500
● 11.747	H	RADIO GENIUS	27500
● 11.747	H	RADIO SHEPHERD	27500
● 11.747	H	ROS&ROS	27500
11.766	V	MGM	27500
11.766	V	MTV	27500
11.766	V	VH1	27500
11.766	V	MVMTV	27500
11.766	V	RNTV	27500
11.766	V	Biography	27500
11.766	V	Hollywood	27500
11.766	V	Musica Brasil	27500
11.766	V	NASN	27500
11.766	V	RBTI	27500
11.766	V	Travel	27500
11.785	H	CCTV 4	27500
11.785	H	M3 sat	27500
11.785	H	Nessuno TV	27500
● 11.785	H	Neth Srilanka	27500
11.785	H	Telelombardia	27500
11.785	H	CUOREDUE CENTRO	27500
11.785	H	CUOREDUE SUD	27500
11.785	H	GAMMARADIO	27500
11.785	H	Radio CRC	27500
11.785	H	Radio Nostalgia	27500
11.785	H	RADIO RELAX	27500
11.804	V	LUXE.TV HD	27500
11.804	V	MelodyZen.tv	27500
● 11.804	V	C-MUSIC	27500
11.804	V	LUXE.TV SD	27500
11.804	V	MelodyZen.tv	27500
11.823	H	TVB Classic	27500
● 11.823	H	TVB Entertainment ne	27500
11.823	H	TVB Life Style	27500
11.823	H	TVBN	27500
11.823	H	TVBS Europe	27500
● 11.823	H	Speda TV	27500
11.823	H	TBi	27500
11.843	V	ARY Digital	27500
11.843	V	ARY One World	27500
● 11.843	V	ARY QTV	27500
11.843	V	B4U Movies	27500
11.843	V	B4U Music	27500
11.843	V	S-LAND	27500
11.843	V	SVT Europa	27500
11.843	V	TEN Sports	27500
11.843	V	Aastha	27500
11.843	V	AL BASHARA	27500
11.843	V	Amrita TV	27500
11.843	V	DAN (Tamil)	27500
11.843	V	Kairali	27500
11.843	V	Nepali	27500
11.843	V	NLM TV	27500
11.843	V	RAAD TV	27500
11.843	V	Shalom	27500
11.843	V	TV Lanka	27500
11.843	V	ZEE Russia	27500
11.843	V	Radio HAY	27500
11.843	V	Radio Sweden 1	27500
11.843	V	Radio Sweden 2	27500
11.900	H	Al Jazeera Int	27500
11.900	H	BBC World	27500
11.900	H	E! Entertainment	27500
11.900	H	Fox Sports Africa	27500
11.900	H	G Prime	27500
11.900	H	G Prime	27500
11.900	H	G Sports 1	27500
11.900	H	G Sports 2	27500
11.900	H	G XTRA	27500
11.900	H	GOD	27500
11.900	H	Kiss	27500
11.900	H	MGM	27500
11.900	H	MTV base	27500
11.900	H	Nickelodeon	27500
11.900	H	Setanta Africa	27500
11.900	H	Sky News	27500
11.900	H	TV5 Monde Afrique	27500
11.900	H	Zee Cinema	27500
● 11.916	V	FTV HD	27500
● 11.916	V	TIN +972-73-7998873	27500
● 11.916	V	AL Aan	27500
● 11.916	V	AL JADEED	27500
● 11.916	V	Alhayat TV	27500
● 11.916	V	ARRAI	27500
● 11.916	V	Atlas-TV	27500
● 11.916	V	ETN TV	27500
● 11.916	V	FATAFEAT	27500
● 11.916	V	GEAR ONE	27500
● 11.916	V	IRAQ Economic	27500
● 11.916	V	Rainbow	27500
● 11.916	V	EDEN Radio	27500
11.958	V	MelodyZen HD	27500
11.958	V	Boomerang Germany	27500
11.958	V	CN Germany	27500
11.958	V	TBi	27500
11.958	V	TCM Germany	27500
11.958	V	C-MUSIC	27500
11.958	V	MelodyZen SD	27500
11.958	V	Poker Channel	27500
11.977	H	Akubis Classic	27500
11.977	H	Akubis Direkt	27500
11.977	H	OCC	27500
11.977	H	OCC_2	27500
11.977	H	TSBS-MB-cz	27500
11.977	H	TSBS-MB-dt	27500
11.977	H	TSBS-MB-f	27500
11.977	H	TSBS-MB-nl	27500
11.977	H	TSBS-MB-rum	27500
11.977	H	TSBS-MB-s	27500
11.977	H	TSBS-MB-sl	27500
11.977	H	Akubis Special IG	27500
11.977	H	Testbild	27500
12.034	V	HBO HD	27500
12.034	V	Eurosport HD	27500
12.034	V	Eurosport 2	27500
12.034	V	Filmbox	27500
12.034	V	Musicmax / Adult	27500
12.034	V	Jazzradio.hu	27500
12.074	V	Filmbox HD	27500
12.074	V	National Geographic	27500
12.074	V	The History Channel	27500
12.074	V	Magyar ATV	27500
12.074	V	RTL Klub	27500
12.074	V	TV2	27500
11.863	H	TEST 201	27500
11.863	H	TEST 202	27500
11.863	H	TEST 203	27500
11.863	H	TEST 204	27500
11.863	H	TEST 205	27500
11.863	H	TEST 206	27500
11.863	H	TEST 207	27500
11.863	H	TEST 208	27500
11.863	H	TEST 209	27500
11.863	H	TEST 210	27500
11.863	H	TEST 211	27500
11.863	H	TEST 212	27500
11.863	H	TEST 213	27500
11.863	H	TEST 214	27500
● 11.919	V	FTV HD	27500
● 11.919	V	TIN +972-73-7998873	27500
● 11.919	V	AL Aan	27500
● 11.919	V	AL JADEED	27500
● 11.919	V	Alhayat TV	27500
● 11.919	V	ARRAI	27500
● 11.919	V	Atlas-TV	27500
● 11.919	V	ETN TV	27500
● 11.919	V	FATAFEAT	27500
● 11.919	V	GEAR ONE	27500
● 11.919	V	IRAQ Economic	27500
● 11.919	V	Rainbow	27500
● 11.919	V	EDEN Radio	27500
● 11.938	V	FTV HD	27500
11.938	H	Red Light Experience	27500
11.938	H	Red Light Hot	27500
11.938	H	Red Light Spicy	27500
11.938	H	Red Light Treat	27500
● 11.938	V	TIN +972-73-7998873	27500
11.938	H	Walf TV	27500
● 11.938	V	AL Aan	27500
● 11.938	V	AL JADEED	27500
● 11.938	V	Alhayat TV	27500
● 11.938	V	ARRAI	27500
● 11.938	V	Atlas-TV	27500
● 11.938	V	ETN TV	27500
● 11.938	V	FATAFEAT	27500
● 11.938	V	GEAR ONE	27500
● 11.938	V	IRAQ Economic	27500
11.938	H	LIBERTY TV FR	27500
11.938	H	NSTV	27500
● 11.938	H	PTV	27500
● 11.938	V	Rainbow	27500
11.938	H	TAM TAM TV	27500
11.938	H	WALF 2	27500
● 11.938	V	EDEN Radio	27500
12.034	H	Disney Cinemagic	27500
12.034	H	Disney Cinemagic +1	27500
● 12.034	H	04 FEEDS TSA	27500
12.034	H	ANA FILMS TV	27500
● 12.034	H	DM ARABIAN	27500
12.034	H	OPAL TV	27500
12.054	H	Disney Cinemagic	27500
12.054	H	Disney Cinemagic +1	27500
● 12.054	H	04 FEEDS TSA	27500
12.054	H	ANA FILMS TV	27500
● 12.054	H	DM ARABIAN	27500
12.054	H	OPAL TV	27500
12.074	H	Sex Black	27500
12.074	H	Sex Erotic	27500
12.074	H	Sex Girls	27500
12.074	H	Sex Hot	27500
12.074	H	Sex Infinity	27500
12.074	H	Sex Italy	27500
● 12.074	H	Sex Mixxx	27500

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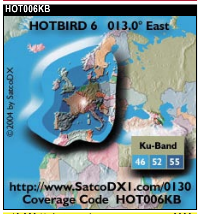
SatcoDX Global Satellite Chart 02/2009

Freq GHz	Pol	Channel Name	Symbol rate
12.074	H	Sex Planet	27500
12.074	H	Sex Spice	27500
12.074	H	Sex Top	27500
12.074	H	Sex Voyeur	27500
12.074	H	Sex World	27500
12.074	H	Musicam 1	27500
12.074	H	Musicam 2	27500
12.074	H	Musicam 3	27500
12.074	H	Musicam 4	27500
12.074	H	Musicam 5	27500
12.074	H	Musicam 6	27500
12.092	H	Sex Black	27500
12.092	H	Sex Erotic	27500
12.092	H	Sex Girls	27500
12.092	H	Sex Hot	27500
12.092	H	Sex Infinity	27500
12.092	H	Sex Italy	27500
● 12.092	H	Sex Mixxx	27500
12.092	H	Sex Planet	27500
12.092	H	Sex Spice	27500
12.092	H	Sex Top	27500
12.092	H	Sex Voyeur	27500
12.092	H	Sex World	27500
12.092	H	Musicam 1	27500
12.092	H	Musicam 2	27500
12.092	H	Musicam 3	27500
12.092	H	Musicam 4	27500
12.092	H	Musicam 5	27500
12.092	H	Musicam 6	27500

Europe
EUTELSAT W1
10.0 East
EUT0W1KE

Freq GHz	Pol	Channel Name	Symbol rate
11.126	H	JSCTLPRT	4340
11.156	H	Al Jazeera	3978
11.175	H	AL-FORAT	2532
11.190	V	InXtc TV	5208
11.190	V	eurotic TV	5208
11.190	V	Eurotic2	5208
12.568	V	DisneyME	3617
12.611	H	MGM EU	9259
12.611	H	MGM MC	9259
12.611	H	MGM ME	9259

Europe, Middle East
HOTBIRD 6,7A,8
13.0 East
HOT006KB



Freq GHz	Pol	Channel Name	Symbol rate
10.829	H	Autonomia	3333
10.834	V	Canal+	27500
10.834	V	Canal+ Cinéma	27500
10.834	V	Canal+ Décalé	27500
10.834	V	Canal+ Sport	27500
10.834	V	COMEDIE	27500
10.834	V	Eurosport 2	27500
10.834	V	France 2	27500
10.834	V	France 3	27500
10.834	V	ITELE	27500
10.853	H	INXTC TV	27500
10.853	H	'Arab-Girls.TV	27500
10.853	H	ALO TV	27500
10.853	H	ArabSexClub	27500
10.853	H	eurotic TV	27500
10.853	H	eurotic TV 2	27500
10.853	H	Fatayat 7'armanat	27500
10.853	H	Sexy-Arab.TV	27500
10.853	H	Supreme Master TV	27500
10.853	H	Ta3arees TV	27500
10.872	V	Equidia	27500
10.872	V	Equidia Outlist	27500
10.872	V	France 4	27500
10.872	V	France 5	27500
10.872	V	France Ô	27500
10.872	V	La Chaine Parlementa	27500
10.872	V	La Chaîne Parlementa	27500
10.872	V	M6 Music Black	27500
10.872	V	M6 Music Rock	27500
10.872	V	Sci Fi	27500
10.872	V	TV Breizh	27500
10.872	V	Ushuaia TV	27500
10.872	V	Fun Radio	27500
10.872	V	RTL2	27500
10.872	V	Alouette	27500
10.872	V	Europe1	27500
10.872	V	Guide	27500
10.872	V	RFM	27500
10.872	V	RTL	27500
10.872	V	Virgin Radio	27500
10.971	H	Baby TV	27500
10.971	H	TIN + 18668336763	27500
10.971	H	Al-Anwar	27500
10.971	H	Asianet Plus	27500
10.971	H	GOD TV	27500
10.971	H	LA8	27500
10.971	H	LA9	27500
10.971	H	MRTV / Univ TV	27500
10.971	H	Music Box Russia	27500
10.971	H	NTD TV	27500
10.971	H	Russia Today	27500
10.971	H	Suroyo tv	27500
10.971	H	Suryoyo Sat	27500
10.971	H	Telenova	27500
10.971	H	The Word Network	27500
10.971	H	TRT-INT	27500
10.971	H	Wind int. tv	27500
10.971	H	Nawa Kurd Radio	27500
10.971	H	R.jamawar_KSDP	27500
10.971	H	Radyo-2 (TRT FM)	27500
10.971	H	Thuthi FM-Tamil	27500
10.971	H	TSR Turkce	27500
10.971	H	Turizm Radyosu	27500
10.971	H	VOT West	27500
10.971	H	VOT World	27500
10.992	H	Baby TV	27500
10.992	V	Rai 4	27500
10.992	V	Rai Africa	27500
10.992	V	Rai Due	27500
10.992	V	Rai Tre	27500
10.992	V	Rai Uno	27500
10.992	V	RAITALIA INTERNAT	27500
10.992	H	TIN + 18668336763	27500
10.992	H	Al-Anwar	27500
10.992	H	Asianet Plus	27500
10.992	H	GOD TV	27500
10.992	H	LA8	27500
10.992	H	LA9	27500
10.992	H	MRTV / Univ TV	27500
10.992	H	Music Box Russia	27500
10.992	H	NTD TV	27500
10.992	H	Russia Today	27500
10.992	H	Suroyo tv	27500
10.992	H	Suryoyo Sat	27500
10.992	H	Telenova	27500

Freq GHz	Pol	Channel Name	Symbol rate
10.992	H	The Word Network	27500
10.992	H	TRT-INT	27500
10.992	H	Wind int. tv	27500
10.992	V	FD Leggera	27500
10.992	V	Multilingue 1	27500
10.992	V	Multilingue 2	27500
10.992	H	Nawa Kurd Radio	27500
10.992	H	R.jamawar_KSDP	27500
10.992	V	Radio OM unica	27500
10.992	V	Radio2 mono	27500
10.992	V	Radio3 mono	27500
10.992	H	Radyo-2 (TRT FM)	27500
10.992	V	SatelRadio	27500
10.992	H	Thuthi FM-Tamil	27500
10.992	H	TSR Turkce	27500
10.992	H	Turizm Radyosu	27500
10.992	H	VOT West	27500
10.992	H	VOT World	27500
11.013	H	3CHANNEL	27500
11.013	H	AIT	27500
11.013	H	AL FAYHAA	27500
11.013	H	Angel TV	27500
11.013	H	Bridge TV	27500
11.013	H	CGN	27500
11.013	H	Cinquestelle	27500
● 11.013	H	EUROITALY	27500
11.013	H	Free channel	27500
11.013	H	Gali Kurdistan TV	27500
11.013	H	Marine Biz TV	27500
11.013	H	MTA International	27500
11.013	H	RU TV	27500
11.013	H	Rusiya Al-Yaum	27500
11.013	H	S24	27500
11.013	H	SARAFAN	27500
11.013	H	TBM	27500
11.013	H	ULISSE	27500
11.013	H	VideoBergamo	27500
11.013	H	RUSSIAN RADIO	27500
● 11.013	H	EPersian Radio	27500
11.013	H	European Radio for B	27500
11.013	H	London Tamil Radio	27500
11.013	H	London TBC	27500
11.013	H	New Life Radio Russi	27500
11.013	H	R.Kurdistan	27500
11.013	H	RDK DUHOK	27500
11.013	H	Tamil ITR France	27500
11.013	H	Tamil Radio EU	27500
11.013	H	TAMIL RADIO TIR	27500
11.034	V	Berbere Television	27500
11.034	V	Boomerang	27500
11.034	V	MTV BASE	27500
11.034	V	Tele Melody	27500
11.034	V	W9	27500
11.034	V	Aljazeera Intl	27500
● 11.034	V	AZTV	27500
11.034	V	CCTV9	27500
11.034	V	Demain!	27500
11.034	V	M6 Boutique la chain	27500
11.034	V	RTR	27500
11.034	V	TELESUD	27500
11.034	V	Vesti	27500
11.034	V	Radio Berbere	27500
11.054	H	Akubis Classic	27500
11.054	H	Akubis Direkt	27500
11.054	H	bwtv	27500
11.054	H	Game One	27500
11.054	H	MTV France	27500
11.054	H	AKUBIS Special IG	27500
● 11.054	H	Al Beladi TV	27500
11.054	H	C TV Coptic CH	27500
11.054	H	Iran Beauty	27500
11.054	H	MI-TV	27500
11.054	H	RTL CH	27500
11.054	H	SRI TV	27500
11.054	H	tv PERSIA	27500
11.054	H	ZDF	27500
● 11.075	V	MTVNHD	27500
11.075	V	Comedy Central Polsk	27500
11.075	V	Comedy Central Polsk	27500
11.075	V	MTV 1	27500
11.075	V	MTV Polska	27500
11.075	V	MTV Polska.	27500
11.075	V	Nickelodeon Euro	27500
11.075	V	VH1	27500
11.075	V	VH1 Polska	27500
11.075	V	VH1 Polska.	27500
11.075	V	VIVA Polska	27500
11.075	V	VIVA Polska.	27500
11.096	H	AFN Family Channel	28000
11.096	H	AFN Freedom	28000
11.096	H	AFN Movie Channel	28000
11.096	H	AFN Vicenza Continge	28000
11.096	H	AFN Xtra/Time Code	28000
11.096	H	AFNS Contingency C	28000
11.096	H	Aviano	28000
11.096	H	Naples	28000
11.096	H	News/BrightAC/Coun	28000
11.096	H	Sigonella	28000
11.096	H	Vicenza	28000
11.096	H	Pentagon Channel	28000
11.096	H	AFN Freedom Radio	28000
11.096	H	Power - La Maddalena	28000
11.096	H	Power - Livorno	28000
11.096	H	Power - Naples	28000
11.096	H	Power - Sigonella	28000
11.096	H	Power 107 Vicenza	28000
11.096	H	Power-Vicenza	28000
11.096	H	The Eagle - Vicenza	28000
11.096	H	The Eagle - La Madda	28000
11.096	H	The Eagle - Livorno	28000
11.096	H	The Eagle - Naples	28000
11.096	H	The Eagle - Sigonell	28000
11.096	H	The Eagle Souda Bay	28000
11.096	H	The Eagle-Vicenza	28000
11.137	H	Motors TV	27500
11.137	H	ANN	27500
11.137	H	GEM TV	27500
11.137	H	Kurdistan TV	27500
11.137	H	RTB	27500
11.137	H	Starmarket	27500
● 11.137	H	The Lady Channel	27500
11.137	H	TV5MONDE EUROPE	27500
11.137	H	TV5MONDE FBS	27500
11.137	H	Videolina	27500
11.158	V	Polsat	27500
● 11.158	V	Polsat Cafe	27500
11.158	V	Polsat Sport	27500
11.158	V	Polsat Sport Extra	27500
11.158	V	Polsat2	27500
11.158	V	Superstacja	27500
● 11.158	V	Test P	27500
11.158	V	TV4	27500
11.158	V	Polsat News	27500
11.158	V	TV Biznes	27500
● 11.179	H	BTV INPS	27500
11.179	H	JSC Sport+1	27500
11.179	H	JSC Sport+2	27500
11.179	H	JSC Sport+3	27500
11.179	H	Sisal TV	27500
11.179	H	GBR	27500
11.179	H	GLOBE MEDIA	27500
11.179	H	NEW TELEVISION	27500
11.179	H	Sensuality	27500
11.179	H	SixtyNine	27500
11.179	H	Studio Europa	27500
11.179	H	Super Tennis	27500
11.179	H	Telemarket	27500
11.179	H	Test Tv 5 Enc 05	27500
11.179	H	TV Moda	27500
11.200	V	.Lolita	27500
11.200	V	ALL SEX	27500
11.200	V	Betting Channel	27500
11.200	V	EBC.1	27500
11.200	V	ELITE SHOPPING	27500
11.200	V	Heaven TV	27500
● 11.200	V	Live Channel	27500
11.200	V	Made In Italy	27500
11.200	V	Mediatel	27500
11.200	V	MOTORI TV	27500
● 11.200	V	Napoli Nova	27500
11.200	V	ODEON SAT	27500
11.200	V	PEOPLE TV-RETE7	27500
11.200	V	PLAY TV ITALIA	27500
11.200	V	ROMA SAT	27500
11.200	V	Sexy 1	27500

Freq GHz	Pol	Channel Name	Symbol rate
● 11.200	V	Sport Channel	27500
11.200	V	STARSAT	27500
11.200	V	Telenord	27500
11.200	V	TLC SAT	27500
11.200	V	Trentino TV	27500
11.200	V	AfgSalamWatandar	27500
11.200	V	McDonalds	27500
11.200	V	R.Di per Di	27500
11.200	V	R.ONDA D'URTO	27500
11.200	V	Radio Billa	27500
11.200	V	Radio Expert	27500
11.200	V	Radio Intesa	27500
11.200	V	Radio Metro	27500
11.200	V	Radio Standa	27500
11.200	V	RADIO ZAINET	27500
11.200	V	Radioshora	27500
11.566	H	Church Channel	27500
● 11.566	H	DAYSTAR	27500
11.566	H	EL SHAFAA	27500
11.566	H	Inspiration	27500
11.566	H	JCTV	27500
11.566	H	NEJAT TV	27500
11.566	H	Smile of a Child	27500
● 11.566	H	Smile of a Child Rus	27500
11.566	H	TBN Europe	27500
11.566	H	TBN ITALIA	27500
11.566	H	TBN RUSSIA	27500
11.566	H	TBNEspain	27500
● 11.585	V	Private Spice	27500
11.585	V	TV GLOBO	27500
11.585	V	.Viva L'Italia Chann	27500
11.585	V	Ariana TV	27500
11.585	V	Ayngaran TV	27500
11.585	V	BFM TV	27500
11.585	V	E'TV Emilia Romagna	27500
11.585	V	EWTN UK	27500
11.585	V	Hope Channel	27500
11.585	V	Hope Channel 2	27500
11.585	V	ISLAM TV	27500
11.585	V	NRJ 12	27500
11.585	V	NRJ 12 HQ	27500
11.585	V	Payam	27500
11.585	V	RTS SAT	27500
11.585	V	Test Radio Globo	27500
11.585	V	Cherie FM	27500
11.585	V	Nostalgie	27500
11.585	V	NRJ	27500
11.585	V	Payam Quran	27500
11.585	V	Rire & Chansons	27500
11.604	H	' ' Hot Arab Sex	27500
11.604	H	+18 Love Girls	27500
11.604	H	.arab babes	27500
11.604	H	69ArabMomes	27500
11.604	H	7'armanat Nar	27500
11.604	H	Ailaj TV	27500
11.604	H	Arab XXX	27500
11.604	H	arab-69.tv	27500
11.604	H	Arab-Jins	27500
11.604	H	ARD "Das Erste"	27500
11.604	H	ASO SAT	27500
11.604	H	DW-TV ARABIA	27500
11.604	H	DW-TV EUROPA	27500
11.604	H	Erde und Mensch	27500
11.604	H	IranMusic	27500
11.604	H	Italiamia	27500
11.604	H	KONTAKT CHANCE TV	27500
11.604	H	Lebnaniat TV.	27500
11.604	H	Love TV	27500
11.604	H	Napoli TLA	27500
● 11.604	H	Real Estate	27500
11.604	H	RTL 2 CH	27500
11.604	H	Sexy love girls	27500
11.604	H	Sexy Sexy TV	27500
11.604	H	Tele A	27500
11.604	H	Tele A+	27500
● 11.604	H	TEST	27500
11.604	H	Wala3 Arab tv	27500
11.604	H	xxx Action TV	27500
11.604	H	DW-FEED1	27500
11.604	H	DW-FM01	27500
11.604	H	DW-FM02	27500
11.604	H	DW-FM03	27500
11.604	H	DW-FM04	27500
11.604	H	DW-FM06	27500
11.604	H	DW-FM07	27500
11.604	H	DW-M	27500
11.604	H	DW01	27500
11.604	H	DW02	27500
11.604	H	DW04	27500
11.604	H	DW05	27500
11.604	H	DW06	27500
11.604	H	DW08	27500
11.604	H	DW09	27500
11.604	H	RNW-4	27500
11.623	V	KBS_WORLD	27500
11.623	V	123_SAT	27500
11.623	V	Abu_dhabi_Sport	27500
11.623	V	ARTE	27500
11.623	V	Best_of_Shopping	27500
11.623	V	Carisma_TV	27500
11.623	V	Cartomanzia_LOTTO	27500
● 11.623	V	DAN TV	27500
11.623	V	ITALIA_CHANNEL	27500
● 11.623	V	ITALY ITALY	27500
11.623	V	K+	27500
11.623	V	Nostradamus	27500
11.623	V	PIANETA	27500
11.623	V	RTL 102.5 TV	27500
11.623	V	TV_ROMANIA	27500
11.623	V	ARTE_Radio.com	27500
● 11.623	V	Dan Tamil Alai	27500
11.623	V	Guardia Costiera	27500
● 11.623	V	Israel 2000	27500
11.623	V	Radio_Romania_Intern	27500
11.623	V	RadioClassica	27500
● 11.623	V	RCF	27500
11.623	V	Romania_In_direct	27500
11.623	V	RTL 102.5	27500
11.623	V	RTL 102.5 HC	27500
11.623	V	RTL Classic	27500
11.623	V	RTL Italian Style	27500
● 11.623	V	TRT Tamil Olli	27500
11.642	H	Bloomberg Feeds (B	27500
11.642	H	Bloomberg Feeds (B	27500
11.642	H	Bloomberg Feeds (B	27500
11.642	H	Bloomberg Feeds (B	27500
11.642	H	Bloomberg Feeds (B	27500
11.642	H	Bloomberg Feeds (B	27500
11.642	H	Bloomberg Feeds (E	27500
11.642	H	Bloomberg Feeds (Mir	27500
11.642	H	Bloomberg Feeds (S	27500
11.642	H	Bloomberg Feeds (S	27500
11.642	H	Bloomberg Feeds (Era	27500
11.642	H	Bloomberg Feeds (Era	27500
11.642	H	Bloomberg Feeds (Era	27500
11.642	H	Bloomberg Feeds (Era	27500
11.642	H	Bloomberg Feeds (Era	27500
11.645	H	Bloomberg French TV	27500
11.645	H	Bloomberg Italian TV	27500
11.645	H	Bloomberg Spain TV	27500
11.645	H	Bloomberg English TV	27500
11.645	H	Bloomberg European T	27500
11.645	H	Bloomberg German TV	27500
11.645	H	ERTSAT Europe	27500
11.645	H	Miracle TV	27500
11.645	H	SAT-7 KIDS	27500
11.645	H	SAT-7 PARS	27500
11.645	H	Era 1	27500
11.645	H	Era 2	27500
11.645	H	Era 3	27500
11.645	H	Era 5	27500
11.645	H	Era Sport	27500
● 11.662	V	CANAL + FAMILY	27500
● 11.662	V	Fun TV	27500
11.662	V	Infosport	27500
● 11.662	V	M6 Music Hits	27500
● 11.662	V	Paris Première	27500
● 11.662	V	Piwi	27500
● 11.662	V	Planète Juniors	27500
● 11.662	V	SPORT+	27500
● 11.662	V	Série Club	27500
● 11.662	V	Teletoon Africa	27500
● 11.662	V	Télétoon	27500
● 11.662	V	Téva	27500
● 11.662	V	Radio FG	27500

Freq GHz	Pol	Channel Name	Symbol rate
11.678	H	AB MOTEURS	27500
11.678	H	AB1	27500
11.678	H	ACTION	27500
11.678	H	ANIMAUX	27500
11.678	H	CHASSE & PECHE	27500
11.678	H	ENCYCLOPEDIA	27500
11.678	H	ESCALES	27500
11.678	H	Fit/Toute l'Histoire	27500
11.678	H	France 5	27500
11.678	H	France ô	27500
11.678	H	LCP	27500
11.678	H	MANGAS	27500
11.678	H	RTL9	27500
11.678	H	TF1	27500
11.678	H	XXL	27500
11.678	H	XXL PL	27500
11.678	H	NT1	27500
11.678	H	TISHK	27500
12.520	V	HRT PLUS	27500
12.520	V	HRT-TV2	27500
● 12.520	V	CMC	27500
12.520	V	Health&Beauty TV	27500
12.520	V	HRT-TV1	27500
12.520	V	Ishtar TV	27500
12.520	V	Italia 8	27500
12.520	V	Jewels Sorg1	27500
12.520	V	Jewels Sorg2	27500
12.520	V	Jewels Sorg3	27500
12.520	V	NOELLO SAT	27500
12.520	V	OASI TV	27500
12.520	V	RBC-TV	27500
12.520	V	TAXI CHANNEL	27500
12.520	V	DALMATIA	27500
12.520	V	HIT MREZA	27500
12.520	V	HKR	27500
12.520	V	HRT HR-Pula	27500
12.520	V	HRT-HR1	27500
12.520	V	HRT-HR2	27500
12.520	V	HRT-HR3	27500
12.520	V	MEDIASERVIS	27500
12.520	V	Narodni radio	27500
12.520	V	OTVORENI	27500
12.520	V	PEVEC RADIO	27500
12.520	V	R MIR M	27500
12.520	V	Radio Banovina	27500
12.520	V	RADIO MARIJA	27500
12.520	V	RKC	27500
12.520	V	VOICE OF CRO	27500
12.539	H	A3	27500
12.539	H	Blu3	27500
12.539	H	BLUTV	27500
12.539	H	Canal Algerie	27500
12.539	H	CARPE DIEM	27500
12.539	H	DIRECT 8	27500
12.539	H	GENIUS TV	27500
12.539	H	MEDIOLANUM	27500
12.539	H	Nile News	27500
12.539	H	Nile TV Internationa	27500
12.539	H	RETE ORO	27500
12.539	H	Sports	27500
12.539	H	TV8 Mt Blanc	27500
12.539	H	TVA Vicenza	27500
12.539	H	Al moagehat	27500
12.539	H	Chaine 1	27500
12.539	H	Chaine 2	27500
12.539	H	Chaine 3	27500
12.539	H	El Shark El Awsat	27500
● 12.558	V	Administra.it - FLTV	27500
12.558	V	AL JAZEERA CHILDR	27500
12.558	V	EDUSAT	27500
12.558	V	POLONIA1	27500
● 12.558	V	T. R. Padre Pio	27500
12.558	V	TELE5	27500
● 12.558	V	TELELOTTO	27500
12.577	H	M6	27500
● 12.577	H	Orange cine choc	27500
● 12.577	H	Orange cine geants	27500
● 12.577	H	Orange cine happy	27500
● 12.577	H	Orange cine max	27500
● 12.577	H	Orange cine novo	27500
● 12.577	H	Orange cinema series	27500
● 12.577	H	Orange Sport	27500
12.597	V	JSTV1	27500
12.597	V	JSTV2	27500
12.597	V	1TVRUS Europe	27500
12.597	V	ARM_1	27500
12.597	V	BBC World News	27500
12.597	V	CNNi	27500
12.597	V	Euronews	27500
12.597	V	Planeta Sport	27500
12.597	V	AWR Radio 128Kbit	27500
12.597	V	Family Europe	27500
12.597	V	Family Int 1	27500
12.597	V	Family Int 2	27500
12.597	V	GBTS1	27500
12.597	V	GBTS2	27500
12.597	V	GBTS3	27500
● 12.597	V	GBTS4	27500
● 12.597	V	GBTS5	27500
● 12.597	V	GBTS6	27500
● 12.597	V	GBTS7	27500
12.597	V	IBC TAMIL RADIO	27500
12.597	V	PEC 3 RRI 3	27500
12.597	V	PRA Radio	27500
12.597	V	Radio New Hope	27500
12.597	V	RCI 1	27500
12.597	V	RCI 2	27500
12.597	V	RCI 3	27500
12.597	V	RD1_Radio_ARMENIA	27500
12.597	V	RTE	27500
12.597	V	Sedayelran	27500
12.597	V	The Voice	27500
12.597	V	WRN Deutsch	27500
12.597	V	WRN English	27500
12.597	V	WRN Events	27500
12.597	V	WRN Francais	27500
12.597	V	WRN Russkij	27500
12.597	V	WRN Sawt Al Alam	27500
● 12.597	V	WRN Special	27500
12.597	V	YLESAT 1	27500
12.597	V	YLESAT 2	27500

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Freq GHz	Pol	Channel Name	Symbol rate
11.470	V	Nick Polska	27500
11.470	V	Andisheh	27500
11.470	V	Ariana	27500
11.470	V	BET NAHRAIN	27500
11.470	V	Channel 6	27500
11.470	V	ICC TV	27500
11.470	V	IRAN	27500
11.470	V	IRAN.MNTV	27500
11.470	V	JAAM E JAM	27500
11.470	V	Mktv Sat	27500
11.470	V	MOHABAT TV	27500
11.470	V	OMID E IRAN	27500
● 11.470	V	OU	27500
11.470	V	PEN TV	27500
11.470	V	PROPHETIC	27500
11.470	V	RIKSAT	27500
11.470	V	SALAAM TV	27500
11.470	V	TAPESH	27500
11.470	V	Tasvir Iran	27500
11.470	V	CYFRA+ GRY	27500
11.470	V	CYFRA+ GRY2	27500
11.470	V	INFO+	27500
11.470	V	Music Ch. Dance	27500
11.470	V	Music Ch. Oldies	27500
11.470	V	Music Ch. Rock	27500
11.470	V	Music Ch. Swiat	27500
11.470	V	Music Ch. Urban	27500

Freq GHz	Pol	Channel Name	Symbol rate
11.470	V	Music Choice 1	27500
11.470	V	Music Choice 2	27500
11.470	V	Music Choice 3	27500
11.470	V	Music Choice 4	27500
11.470	V	Music Choice 5	27500
11.470	V	Music Choice 6	27500
11.470	V	Music Choice 7	27500
11.470	V	Music Choice Pop	27500
11.470	V	MusicC. Klasyka	27500
11.470	V	Bahai Radio	27500
11.470	V	Makedonsko Radio	27500
11.470	V	Radio Mojdeh	27500
11.541	V	ESP2 Hungary	22000
11.541	V	ESP2 Romania	22000
11.541	V	NATIONAL GEO	22000
11.541	V	50 Canale	22000
11.541	V	BERGAMOSAT	22000
11.541	V	La Nuova TV	22000
11.541	V	ROMAUNO	22000
11.541	V	Sardegna Channel	22000
11.541	V	TeleTirreno	22000
11.541	V	THOU TV	22000
11.541	V	Toscana Channel	22000
11.541	V	TV7 LOMBARDIA	22000
11.541	V	Umbria Channel	22000
● 11.541	V	YOUDEM	22000
11.541	V	CAPITAL	22000
11.541	V	DEEJAY	22000
11.541	V	DISCORADIO	22000
11.541	V	Global-Mir	22000
11.541	V	KISS KISS RADIO	22000
11.541	V	LifeGate	22000
11.541	V	M DUE O	22000
11.541	V	Millennium Radio	22000
11.541	V	R.BuonConsiglio	22000
11.541	V	R.S.F. inBlu	22000
11.541	V	R101	22000
11.541	V	Radio 24	22000
● 11.541	V	RADIO CENTRO95	22000
11.541	V	RADIO CUORE	22000
11.541	V	RADIO CUORE DUE	22000
11.541	V	RADIO GYE NYAME	22000
11.541	V	Radio Iglesias	22000
11.541	V	RADIO KOLBE	22000
11.541	V	Radio Padre Pio	22000
11.541	V	VIRGIN RADIO	22000
11.727	V	An Planet	27500
11.727	V	Disc Chnl	27500
11.727	V	Disc Civ	27500
11.727	V	Disc Science	27500
11.727	V	Trav + Leisure	27500
11.727	V	BBC Arabic	27500
11.727	V	Infochannel	27500
11.727	V	Sardegna Uno	27500
11.727	V	Sardinia	27500
11.727	V	SET	27500
11.727	V	Sicilia Int	27500
11.727	V	Telefortune	27500
11.727	V	Thendral	27500
11.727	V	TRSP	27500
11.727	V	Zagros Tv	27500
11.727	V	BBC Albanian	27500
11.727	V	BBC Arabic	27500
11.727	V	BBC Azeri	27500
11.727	V	BBC Balkans	27500
11.727	V	BBC English (Europe)	27500
11.727	V	BBC English Mid-Ea	27500
11.727	V	BBC English News	27500
11.727	V	BBC Feed 1	27500
11.727	V	BBC Feed 2	27500
11.727	V	BBC Feed 3	27500
11.727	V	BBC Feed 4	27500
11.727	V	BBC Feed 5	27500
11.727	V	BBC Feed 6	27500
11.727	V	BBC Persian	27500
11.727	V	BBC Romanian	27500
11.727	V	BBC Russian	27500
11.727	V	BBC Turkish	27500
11.727	V	BBC Ukrainian	27500
11.727	V	Zagros Radio	27500
11.766	V	RAI1	27500
11.766	V	RAI2	27500
11.766	V	RAI3	27500
11.766	V	RaiEdu2	27500
11.766	V	RaiMed	27500
11.766	V	Senato	27500
11.766	V	FD leggera	27500
11.766	V	Notturno italiano	27500
11.785	H	Al-Hayat	27500
11.785	H	BODY TIME TV	27500
11.785	H	Canal 24 Horas	27500
11.785	H	Didar Global TV	27500
11.785	H	GAY.TV	27500
● 11.785	H	HOMEDROM	27500
11.785	H	ICTIMAI TV	27500
11.785	H	IPN	27500
11.785	H	KontaktChance.TV	27500
11.785	H	MARE TV	27500
11.785	H	PARS TV	27500
11.785	H	Payame Afghan	27500
11.785	H	R1	27500
11.785	H	RAINBOW	27500
11.785	H	STRAVINCI TV	27500
11.785	H	TAK TV	27500
11.785	H	TVE Internacional	27500
11.785	H	TVE Internacional As	27500
11.785	H	Radio 1	27500
11.785	H	Radio 3	27500
11.785	H	Radio 4	27500
11.785	H	Radio 5	27500
11.785	H	Radio Clasica	27500
11.785	H	Radio Exterior	27500
11.785	H	RNE Contribucion	27500
11.804	V	Camera Deputati	27500
11.804	V	Rai Edu1	27500
11.804	V	Rai Gulp	27500
11.804	V	RAI Sport più	27500
11.804	V	Rai Test HD	27500
11.804	V	RaiNettunoSat1	27500
11.804	V	RaiNettunoSat2	27500
11.804	V	RaiNotizie24	27500
11.804	V	SAT2000	27500
11.804	V	BLUSAT2000	27500
11.804	V	DAB	27500
11.804	V	FD auditorium	27500
11.804	V	GR Parlam.	27500
11.804	V	Isoradio	27500
11.804	V	Radio Vaticana	27500
11.804	V	RADIODUE	27500
11.804	V	RADIOTRE	27500
11.804	V	RADIOUNO	27500
11.823	H	ALPHA TV	27500
11.823	H	ALTER	27500
11.823	H	ANT-1	27500
11.823	H	JETIX	27500
11.823	H	MEGA	27500
11.823	H	novacinema1	27500
11.823	H	novasports1	27500
11.823	H	novasports1 Cy	27500
11.823	H	R1	27500
11.823	H	R11	27500
11.823	H	R12	27500
11.823	H	R13	27500
11.823	H	R3	27500
11.823	H	R4	27500
11.823	H	R5	27500
11.823	H	R6	27500
11.823	H	STAR	27500
11.823	H	DS Test	27500
11.823	H	Greek Church	27500
11.823	H	Love Radio	27500
11.823	H	Melodi Radio	27500
11.823	H	RR1	27500
11.823	H	RR3	27500
11.823	H	Skai Radio	27500
11.823	H	SSExtra 1	27500
11.823	H	Test2	27500
11.842	V	Caccia e Pesca	27500
11.842	V	Fox Crime +1	27500
11.842	V	Jimmy	27500
11.842	V	MotoTV	27500
11.842	V	Yacht & Sail	27500
11.842	V	SKY Inside	27500
11.842	V	SKY Play IT	27500
11.842	V	SKY Sound	27500

Freq GHz	Pol	Channel Name	Symbol rate
11.861	H	Animal Planet	27500
● 11.861	H	Class CNBC	27500
11.861	H	Comedy Central	27500
11.861	H	Discovery	27500
11.861	H	Discovery Real Time	27500
11.861	H	NASN	27500
11.861	H	Nickelodeon	27500
11.861	H	Raisat Cinema	27500
11.861	H	Raisat Gambero	27500
11.861	H	Raisat YOYO	27500
11.861	H	Rock TV	27500
11.861	H	VideoItalia	27500
11.880	V	Alice	27500
11.880	V	Fantasy	27500
11.880	V	Fox +1	27500
11.880	V	Leonardo	27500
11.880	V	Marcopolo	27500
11.880	V	NatGeo Wild	27500
11.880	V	Nuvolari	27500
11.880	V	IEPG Data	27500
11.900	H	AXN	27500
● 11.900	H	DeAKids	27500
11.900	H	Disney Ch. +1	27500
11.900	H	Inter Channel	27500
11.900	H	Juventus Channel	27500
11.900	H	Matchmusic	27500
11.900	H	MTV	27500
11.900	H	Playhouse Disney	27500
11.900	H	Raisat Premium	27500
11.900	H	Raisat Smash	27500
11.900	H	RaisatExtra	27500
11.900	H	Toon Disney	27500
11.919	V	Test	27500
11.919	V	Canale 5	27500
11.919	V	Italia 1	27500
11.919	V	Mediashopping	27500
11.919	V	Retequattro	27500
11.919	V	Radio Mater	27500
11.938	H	ALFA	27500
● 11.938	H	Boomerang	27500
11.938	H	Chasse & Peche	27500
11.938	H	E! Entertainment	27500
11.938	H	LTV	27500
● 11.938	H	Motors TV	27500
11.938	H	novacinema3	27500
11.938	H	novacinema3 Cy	27500
11.938	H	novasports highlight	27500
11.938	H	novasports4	27500
11.938	H	novasports4 Cy	27500
11.938	H	novasports6	27500
11.938	H	novasports6 Cy	27500
11.938	H	Playboy TV	27500
11.938	H	Playboy TV Cy	27500
11.938	H	Private Spice	27500
11.938	H	Private Spice Cy	27500
11.938	H	The History Channel	27500
11.938	H	Nova Promo	27500
11.938	H	Mad Radio	27500
11.938	H	ol5	27500
11.958	V	iadv Video	27500
11.958	V	SKY Sport 1	27500
11.958	V	SKY Sport 2	27500
11.958	V	Sky Sport 24	27500
11.958	V	SKY SuperCalcio	27500
11.958	V	Sport Active 1	27500
11.958	V	Sports Active 2	27500
11.958	V	Sports Active 3	27500
11.976	H	Cartoon Network	27500
11.976	H	Cooltoon	27500
11.976	H	Cult	27500
11.976	H	Fox Crime	27500
11.976	H	Fox Life	27500
11.976	H	Fox News	27500
11.976	H	History +1	27500
11.976	H	Jetix	27500
11.976	H	NatGeoAdventur	27500
11.976	H	NationalGeo +1	27500
11.976	H	Sky News	27500
11.996	V	SKY Cinema HD	27500
11.996	V	SKY Sport HD 1	27500
11.996	V	SKY Sport HD 2	27500
11.996	V	NationalGeo HD	27500
11.996	V	Next HD	27500
12.015	H	ART CINEMA - ARAB	27500
12.015	H	ART HEKAYAT - ARA	27500
12.015	H	ART HEKAYAT ZAMAN	27500
12.015	H	ART MOVIES - ARAB	27500
12.015	H	ART MOVIES2 - ARA	27500
12.015	H	ART PRIME SPORT -	27500
12.015	H	ART SPORT 1 - ARA	27500
12.015	H	ART SPORT 2 - ARA	27500
12.015	H	ART SPORT 3 - ARA	27500
12.015	H	ART SPORT 4 - ARA	27500
● 12.015	H	ART SPORT 5 - ARA	27500
● 12.015	H	ART SPORT 6 - ARA	27500
12.015	H	ART- ARABESQUE	27500
12.015	H	LBC EUROPE - ARAB	27500
12.015	H	FUTURE NEWS - ARA	27500
12.015	H	IQRAA - ARABESQUE	27500
● 12.034	V	DeAKids +1	27500
12.034	V	Disney Channel	27500
12.034	V	E!	27500
● 12.034	V	iadv Amici	27500
12.034	V	SKY Calcio 1	27500
12.034	V	SKY Mania	27500
12.034	V	SKY Max	27500
12.034	V	SKY Show	27500
12.034	V	SKYCinema 1	27500
12.034	V	SKYCinema 3	27500
12.054	H	BBC Prime	27500
12.054	H	Bloomberg	27500
12.054	H	Discovery Sci	27500
12.054	H	ESPN Classic	27500
12.054	H	Eurosport	27500
12.054	H	Eurosport 2	27500
12.054	H	EurosportNews	27500
12.054	H	SKY Sport 3	27500
12.054	H	SKY Vivo	27500
12.054	H	Sportitalia	27500
12.072	V	Prima Fila 11	27500
12.072	V	Prima Fila 13	27500
12.072	V	Prima Fila 20	27500
12.072	V	Prima Fila 22	27500
12.072	V	Prima Fila 28	27500
12.072	V	Prima Fila 30	27500
12.072	V	Prima Fila 5	27500
12.072	V	SKY Calcio 2	27500
12.072	V	SKY Calcio 3	27500
12.072	V	SKY Calcio 4	27500
12.072	V	SKY Calcio 5	27500
12.072	V	SKY Calcio 6	27500
12.072	V	SKY Calcio 7	27500
12.072	V	SKY Calcio 8	27500
12.092	H	Don t Panic TV	27500
12.092	H	MCT Fantasy-Amateur	27500
12.092	H	MCT Gay-Trans	27500
12.092	H	MCT Gold	27500
12.092	H	MCT Lux-Best	27500
12.092	H	MCT Premium	27500
12.092	H	MCT Reality-Blu	27500
12.092	H	MCT Sct	27500
12.092	H	MCT Sex	27500
12.092	H	MCT Strong	27500
12.092	H	MCT Super-Dream	27500
12.092	H	TELEITALIA	27500
● 12.092	H	DM ARABIA	27500
● 12.092	H	DM EUROPE	27500
12.092	H	Musicam 1	27500
12.092	H	Musicam 2	27500
12.092	H	Musicam 3	27500
12.092	H	Musicam 4	27500
12.092	H	Musicam 5	27500
12.092	H	Musicam 6	27500
12.111	V	ACM Channel	27500
12.111	V	AL JAZEERA	27500
12.111	V	AlJazeera Documentar	27500
12.111	V	AlJazeera Mubasher	27500
12.111	V	HIGH LIFE TV	27500
12.111	V	MediterraneoSat	27500
12.111	V	Puglia Channel	27500
12.111	V	Radio Radio Tv	27500
12.111	V	Sicilia Channel	27500
12.111	V	Telefoggia	27500
12.111	V	Telemarket 2	27500
12.111	V	Telereporter	27500

Freq GHz	Pol	Channel Name	Symbol rate
12.111	V	ANNI 60	27500
12.111	V	DimSuono Roma	27500
12.111	V	Popolare	27500
12.111	V	R-Radio	27500
12.111	V	R.Italia S.m.i.	27500
12.111	V	R.Maria	27500
12.111	V	R.Speranza	27500
12.111	V	Radio Eurospin	27500
12.111	V	RADIO PADANIA	27500
12.111	V	Radio Padania IP	27500
12.111	V	Radio Radicale	27500
● 12.111	V	Radio Test	27500
12.111	V	Radio ZETA	27500
12.111	V	RDS	27500
12.111	V	Vietnamese PR	27500
12.149	V	CCTV4	27500
12.149	V	DunaTV	27500
12.149	V	FUEGO	27500
12.149	V	Khabar TV	27500
12.149	V	LIDER TV AZE	27500
12.149	V	Nessuno TV	27500
12.149	V	POKER TV	27500
12.149	V	SALENTO CHANNEL	27500
12.149	V	STUDIO 100 TV	27500
12.149	V	Telelombardia	27500
12.149	V	TR2SAT	27500
12.149	V	TV7 Tunis	27500
12.149	V	Ecoradio	27500
12.149	V	MR1-Kossuth	27500
12.149	V	MR2-Petofi	27500
12.149	V	MR4/MR5	27500
12.149	V	R.Citta Futura	27500
12.149	V	R.Tunisie Culture	27500
12.149	V	R.Tunisie Internatio	27500
12.149	V	R.Tunisie Nationale	27500
12.149	V	Radio 6	27500
12.149	V	Radio Spazio Aperto	27500
12.149	V	ReteSport	27500
12.169	H	Cartoon	27500
12.169	H	Discovery Channel	27500
12.169	H	ET-1	27500
12.169	H	ET-3	27500
12.169	H	MACEDONIA TV	27500
12.169	H	MAD T.V	27500
12.169	H	MAD TV	27500
12.169	H	NET	27500
12.169	H	novasports2	27500
12.169	H	novasports2 Cy	27500
12.169	H	novasports7	27500
12.169	H	novasports7 Cy	27500
12.169	H	R10	27500
12.169	H	R14	27500
12.169	H	R15	27500
12.169	H	R7	27500
12.169	H	R8	27500
12.169	H	R9	27500
12.169	H	SIGMA SPORTS 1	27500
12.169	H	SKAI TV	27500
12.169	H	TCM	27500
12.169	H	Βουλή	27500
12.169	H	ERA SPORT	27500
12.169	H	ERA1	27500
12.169	H	ERA2	27500
12.169	H	ERA3	27500
12.169	H	MAD MUSIC Hits G	27500
12.169	H	Mad Music Seasonal	27500
12.169	H	MAD MUSIC Greek	27500
12.169	H	Mad Music Greek Cy	27500
12.169	H	Mad Music Hits GR	27500
12.169	H	MAD MUSIC My Rock	27500
12.169	H	Mad Music My Rock Cy	27500
12.169	H	MAD MUSIC Rebetico	27500
12.169	H	Mad Music Rebetico C	27500
12.169	H	MAD MUSIC Seasonal	27500
12.188	V	AXN	27500
12.188	V	AXN Crime	27500
12.188	V	AXN Sci-Fi	27500
12.188	V	Cinemax2	27500
12.188	V	Discovery	27500
12.188	V	ESPN	27500
12.188	V	Extreme Sports	27500
12.188	V	FoxLife	27500
12.188	V	Jetix	27500
● 12.188	V	Polsat Play	27500
12.188	V	TVP1	27500
12.188	V	TVP2	27500
12.188	V	Zone Romantica	27500
12.188	V	EpgOpenTV	27500
12.207	H	Free-X TV	27500
12.207	H	FREE-XTV 2	27500
12.207	H	XDream TV	27500
12.207	H	3ABN International	27500
12.207	H	Arirang TV	27500
12.207	H	Asianet	27500
12.207	H	CNL	27500
12.207	H	F men	27500
12.207	H	Fashion TV	27500
12.207	H	KICC TV	27500
12.207	H	KURDsat	27500
12.207	H	Newroz	27500
12.207	H	Rojhelat	27500
12.207	H	SAMA FM TV	27500
12.207	H	TCT	27500
12.207	H	Thai Global Network	27500
12.207	H	VTV4	27500
12.207	H	3ABN Radio	27500
12.207	H	Hornafrik Somalia	27500
12.207	H	Music Box Radio	27500
12.207	H	neo zwei	27500
12.207	H	Overcomer Radio	27500
● 12.207	H	Radio Jazz Internati	27500
12.207	H	Rang A Rang radio	27500
● 12.207	H	ROCK NATION	27500
12.207	H	TGN Radio	27500
12.207	H	VOV Radio	27500
12.226	H	Free-X TV	27500
12.226	H	FREE-XTV 2	27500
12.226	H	XDream TV	27500
12.226	H	3ABN International	27500
12.226	H	Arirang TV	27500
12.226	H	Asianet	27500
12.226	H	CNL	27500
● 12.226	V	DOS TV 340	27500
12.226	H	F men	27500
12.226	H	Fashion TV	27500
12.226	V	IBB OS Download 8	27500
12.226	V	IBB OS Download 9	27500
12.226	V	IBB TV Dedicated C	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	V	IBB VOA RFERL Rad	27500
12.226	H	KICC TV	27500
12.226	H	KURDsat	27500
● 12.226	V	MTN-E TV 190	27500
12.226	H	Newroz	27500
12.226	H	Rojhelat	27500
12.226	H	SAMA FM TV	27500
12.226	H	TCT	27500
12.226	H	Thai Global Network	27500
12.226	V	VOA Music Mix 260	27500
12.226	V	VOA Music Mix 261	27500
12.226	V	VOA Music Mix 262	27500
12.226	V	VOA Music Mix 268	27500
12.226	V	VOA Persian TV 295	27500
12.226	V	VOA Persian TV 298	27500
12.226	V	VOA TV 1 (HB1-8)	27500
12.226	V	VOA TV 100 (HB1-4)	27500
12.226	V	VOA TV 240 (HB1-8)	27500
12.226	V	VOA TV 241 (HB1-2,	27500
12.226	V	VOA TV 242 (HB1-2,	27500
12.226	V	VOA TV 250 (HB1-8)	27500
12.226	V	VOA TV 251 (HB1-2,	27500

TV Digital
Radio Digital
TV Digital Crypt
Radio Digital Crypt
TV High Definition
TV High Definition Crypt

Freq Pol GHz	Channel Name	Symbol rate
12.226 V	VOA TV 252 (HB1-2,	27500
12.226 H	VTV4	27500
12.226 H	3ABN Radio	27500
● 12.226 V	Cyprus/Saudi MW 308	27500
12.226 V	Farda Radio 119	27500
12.226 V	Farda Radio 294	27500
12.226 H	Hornafrik Somalia	27500
12.226 V	IBB VOA Radio 107	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	27500
12.226 H	Music Box Radio	27500
12.226 H	neo zwei	27500
12.226 H	Overcomer Radio	27500
● 12.226 H	Radio Jazz Internati	27500
12.226 H	Rang A Rang radio	27500
● 12.226 H	ROCK NATION	27500
12.226 V	Sawa Egypt Radio 116	27500
12.226 V	Sawa Egypt Radio 290	27500
12.226 V	Sawa Egypt Radio 293	27500
12.226 V	Sawa Gulf Radio 117	27500
12.226 V	Sawa Gulf Radio 291	27500
12.226 V	Sawa Iraq Radio 115	27500
12.226 V	Sawa Iraq Radio 283	27500
12.226 V	Sawa Lebanon Radio 1	27500
12.226 V	Sawa Lebanon Radio 2	27500
12.226 V	Sawa Levant Radio 11	27500
12.226 V	Sawa Levant Radio 28	27500
12.226 V	Sawa N. Africa Radio	27500
12.226 V	Sawa N. Africa Radio	27500
12.226 V	Sawa Sudan Radio 122	27500
12.226 V	Sawa Sudan Radio 297	27500
12.226 H	TGN Radio	27500
12.226 V	VOA Music Mix 104	27500
12.226 V	VOA Urdu Radio 310	27500
12.226 H	VOV Radio	27500
12.245 H	MEZZO	27500
12.245 H	Private Spice	27500
● 12.245 H	Al Arabiya	27500
12.245 H	Canale Italia	27500
12.245 H	COMING SOON	27500
12.245 H	DAN TV	27500
● 12.245 H	Dubai Sports 2	27500
● 12.245 H	Dubai TV Europe	27500
● 12.245 H	HOLY GOD Test	27500
12.245 H	KURD 1	27500
● 12.245 H	Mbc Maghreb Al Arabi	27500
● 12.245 H	Sama Dubai	27500
12.245 H	SUBACQUEA TV	27500
12.245 H	Dan TAMIL ALAI Ra	27500
12.245 H	FRANCE MAGHREB	27500
12.245 H	Israel 2000	27500
12.245 H	RADIO ORIENT	27500
12.245 H	RCF	27500
12.245 H	TRT TAMIL OLLI	27500
● 12.264 V	HBO HD	27500
12.264 V	Polsat Sport HD	27500
12.284 H	Boomerang	27500
12.284 H	Dla Abonentow	27500
12.284 H	E!	27500
12.284 H	Jetix Play	27500
12.284 H	Playboy	27500
● 12.284 H	Test1	27500
12.284 H	Travel	27500
12.284 H	TV1000	27500
12.284 H	Zone Europa	27500
12.284 H	Jedynka - PR	27500
12.284 H	Pogoda	27500
12.284 H	Portal ITV	27500
12.284 H	RMF FM	27500
12.284 H	Test	27500
12.284 H	Trójka - PR	27500
12.284 H	Zlote Przeboje	27500
● 12.284 H	Planeta FM	27500
12.284 H	Radio PIN 102FM	27500
12.284 H	Radio ZET	27500
12.284 H	RMF Classic	27500
12.284 H	RMF MAXXX	27500
12.303 V	NTV HAYAT SAT	27500
12.303 V	BLU LINE	27500
12.303 V	BVN-TV	27500
12.303 V	CRO MUSIC CHANNEL	27500
12.303 V	DANCE TV	27500
12.303 V	Diva Futura	27500
12.303 V	ITALIAN MUSIC	27500
12.303 V	Kanal e Jadid	27500
12.303 V	LOVEWORLD	27500
● 12.303 V	PASSIONE PESCA	27500
12.303 V	PLEASURE TV	27500
12.303 V	SLO-TV1	27500
12.303 V	SLO-TV2	27500
12.303 V	SLO-TV3	27500
12.303 V	TV SLJEME	27500
12.303 V	TVS	27500
12.303 V	CAPODISTRIA	27500
12.303 V	RA.OGNJISCE SI	27500
12.303 V	RADIO SI	27500
12.303 V	RNW-1	27500
12.303 V	RNW-2	27500
12.303 V	SLO-RA1-INF	27500
12.303 V	SLO-RA2	27500
12.303 V	SLO-RA3	27500
● 12.322 H	AXN-Crime-pol	27500
12.322 H	RTVi Detskii Mir -	27500
12.322 H	RTVi Europe	27500
12.322 H	RTVi ME	27500
12.322 H	RTVi Nashe Kino	27500
12.322 H	SCI FI	27500
12.322 H	UNIVERSAL	27500
● 12.322 H	AXN-SciFi-pol	27500
12.322 H	France 24 (in Arabic	27500
12.322 H	RIT-TV	27500
12.322 H	World Fashion	27500
12.322 H	Glas Drine BiH	27500
12.322 H	GRAND	27500
12.322 H	Lijepa nasa (LINA)	27500
12.322 H	MegaRadio	27500
12.322 H	PEIRAIKI EKKLISIA	27500
12.322 H	Radio Azadegan	27500
12.322 H	Radio Dijla	27500
12.322 H	Radio SRNA-BOSANK	27500
12.322 H	RAM RAJ RADIO	27500
● 12.322 H	SvetPLUS	27500
12.322 H	TREF Radio	27500
12.322 H	VULKAN radio	27500
12.322 H	YU PLANET BEC	27500
12.341 V	Prima Fila 16	27500
12.341 V	Prima Fila 24	27500
12.341 V	Prima Fila 26	27500
12.341 V	Prima Fila 3	27500
12.341 V	Prima Fila 8	27500
● 12.341 V	SKY Calcio 10	27500
● 12.341 V	SKY Calcio 11	27500
● 12.341 V	SKY Calcio 12	27500
12.341 V	SKY Calcio 13	27500
12.341 V	SKY Calcio 14	27500
12.341 V	SKY Calcio 9	27500
12.341 V	SKY Sport 16:9	27500
12.341 V	SKY Sport Extra	27500
12.360 H	SEX VIEW 247	27500
12.360 H	SEX VIEW CLIMAX	27500
12.360 H	SEX VIEW DP	27500
12.360 H	SEX VIEW EXTRA	27500
12.360 H	SEX VIEW EXTREME	27500
12.360 H	SEX VIEW GAY	27500
12.360 H	SEX VIEW HOT	27500
12.360 H	SEX VIEW INFO	27500
12.360 H	SEX VIEW INTER	27500
12.360 H	SEX VIEW PLUS	27500
12.360 H	SEX VIEW SPECIAL	27500
12.360 H	SEX VIEW TV	27500
12.360 H	!ALLOVE	27500
12.360 H	BIO TV	27500
● 12.360 H	CASA ITALIA	27500
12.360 H	ETRURIA CHANNEL	27500
12.360 H	GALAXY	27500
12.360 H	HOUSE CHANNEL	27500

Freq Pol GHz	Channel Name	Symbol rate
12.360 H	MONDO ARTE	27500
● 12.360 H	ONE MINUTE TV	27500
● 12.360 H	R1	27500
12.360 H	SEXWORLD	27500
12.360 H	SEXYSAT2	27500
12.360 H	SEXYSAT3	27500
12.360 H	SEXYSAT4	27500
12.380 V	EQUIDIA PRO	27500
12.380 V	Abu Dhabi	27500
12.380 V	ALBAGHDADIA	27500
● 12.380 V	HOLY GOD	27500
12.380 V	Living God	27500
12.380 V	RTV Montenegro	27500
12.380 V	SAT 7	27500
12.380 V	Saudi arabia TV2	27500
12.380 V	Syria Satellite Chan	27500
12.380 V	Telepace	27500
● 12.380 V	The Spirit Word Chan	27500
12.380 V	Yemen TV	27500
12.380 V	ZAHRAA TV	27500
12.380 V	Aden Radio	27500
12.380 V	Emirates FM	27500
12.380 V	Main General Program	27500
12.380 V	Radio MARIA	27500
12.380 V	Radio Montenegro	27500
12.380 V	RADIO SAN	27500
12.380 V	RFI Francais	27500
12.380 V	Sana'a radio	27500
12.380 V	Voice Of People	27500
12.380 V	Voice of Youth	27500
12.399 H	HD suisse	27500
12.399 H	SF zwei	27500
12.399 H	SF 1	27500
12.399 H	SF info	27500
12.399 H	SRG-DRS 1	27500
12.399 H	SRG-DRS 2	27500
12.399 H	SRG-DRS 3	27500
12.399 H	SRG-DRS 4 News	27500
12.399 H	SRG-DRS Musikwelle	27500
12.399 H	SRG-DRS Virus	27500
12.399 H	SRG-Rumantsch	27500
12.399 H	SRG-Swiss Classic	27500
12.399 H	SRG-Swiss Jazz	27500
12.399 H	SRG-Swiss Pop	27500
12.418 V	Classica	27500
● 12.418 V	Discovery +1	27500
12.418 V	Discovery Travel	27500
12.418 V	La7	27500
12.418 V	Milan Channel	27500
12.418 V	SKY Calcio 15	27500
12.418 V	SKY Cinema Hits	27500
12.418 V	SKY Classics	27500
12.418 V	SKYCinema 2	27500
12.418 V	CNN Intl.	27500
12.437 H	AL-ALAM	27500
12.437 H	ALKAWTHAR	27500
● 12.437 H	FEED	27500
● 12.437 H	IRIB QURAN	27500
12.437 H	IRIB1 ENG	27500
12.437 H	IRIB1 PER	27500
12.437 H	IRIB2 ENG	27500
12.437 H	IRIB2 PER	27500
12.437 H	IRINN	27500
12.437 H	PRESS TV	27500
12.437 H	SAHAR	27500
12.437 H	IRIB1/IRIB2	27500
12.437 H	IRIB3/IRIB6	27500
12.437 H	IRIB5/IRIB4	27500
12.437 H	RADIO IRAN	27500
12.437 H	RADIO MAAREF(ENG)	27500
12.437 H	RADIO QURAN	27500
● 12.437 H	SEDAYE ASHNA1	27500
12.466 V	Deejay TV	27500
12.466 V	MTV Brand New	27500
12.466 V	MTV Gold	27500
12.466 V	MTV Hits	27500
12.466 V	MTV Pulse	27500
12.466 V	Music on SKY	27500
12.466 V	SKY Assist	27500
12.466 V	Vh1	27500
12.466 V	50 songs	27500
12.466 V	B-Side	27500
12.466 V	Baby Mix	27500
12.466 V	Capital '70	27500
12.466 V	Disc Joker	27500
12.466 V	Extrabeat	27500
12.466 V	Heart n' song	27500
12.466 V	Hit Italia	27500
12.466 V	ItalianVintage	27500
12.466 V	Jazz & Fusion	27500
12.466 V	Jazz Gold	27500
12.466 V	Livetime	27500
12.466 V	New Rock	27500
12.466 V	Onda Latina	27500
12.466 V	Opera	27500
12.466 V	Out Of Mind	27500
12.466 V	Rock Classic	27500
12.466 V	Rock Shock	27500
12.466 V	Sinfonia	27500
12.466 V	Soul Train	27500
12.466 V	Soulsista	27500
12.466 V	Stardust	27500
12.466 V	Vintage '60	27500
12.466 V	Yesterjay '80	27500
12.466 V	Yesterjay '90	27500
● 12.476 H	Alpha punjabi	27500
● 12.476 H	Zee cinema	27500
12.476 H	Zee TV	27500
● 12.476 H	2M TV	27500
● 12.476 H	Air Box TV	27500
● 12.476 H	AL Rasheed	27500
12.476 H	ICC+	27500
● 12.476 H	KJC	27500
● 12.476 H	KMC TV	27500
● 12.476 H	KNN TV	27500
● 12.476 H	KOMALA	27500
● 12.476 H	Liberty TV	27500
● 12.476 H	LIVE 24	27500
● 12.476 H	Mezopotamia	27500
12.476 H	Newroz TV	27500
12.476 H	NOUR TV	27500
12.476 H	Podroze TV	27500
12.476 H	ROJ	27500
● 12.476 H	XStream	27500
● 12.476 H	Rouge FM	27500
● 12.476 H	Almahaba	27500
● 12.476 H	Denge Radio	27500
● 12.476 H	Radio 2M	27500
● 12.476 H	Radio 74	27500
● 12.476 H	Radio Eviva	27500
● 12.476 H	Radio Tasvir	27500
● 12.476 H	Radio Top Two	27500
12.476 H	Radio Zamaneh	27500
● 12.476 H	RVI 1	27500
● 12.476 H	RVI 2	27500
12.480 V	Deejay TV	27500
12.480 V	MTV Brand New	27500
12.480 V	MTV Gold	27500
12.480 V	MTV Hits	27500
12.480 V	MTV Pulse	27500
12.480 V	Music on SKY	27500
12.480 V	SKY Assist	27500
12.480 V	Vh1	27500
12.480 V	50 songs	27500
12.480 V	B-Side	27500
12.480 V	Baby Mix	27500
12.480 V	Capital '70	27500
12.480 V	Disc Joker	27500
12.480 V	Extrabeat	27500
12.480 V	Heart n' song	27500
12.480 V	Hit Italia	27500
12.480 V	ItalianVintage	27500
12.480 V	Jazz & Fusion	27500
12.480 V	Jazz Gold	27500
12.480 V	Livetime	27500
12.480 V	New Rock	27500
12.480 V	Onda Latina	27500
12.480 V	Opera	27500
12.480 V	Out Of Mind	27500
12.480 V	Rock Classic	27500
12.480 V	Rock Shock	27500
12.480 V	Sinfonia	27500
12.480 V	Soul Train	27500
12.480 V	Soulsista	27500
12.480 V	Stardust	27500

Freq Pol GHz	Channel Name	Symbol rate
12.480 V	Vintage '60	27500
12.480 V	Yesterjay '80	27500
12.480 V	Yesterjay '90	27500

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Freq Pol GHz	Channel Name	Symbol rate
10.719 V	DTV CABLE MI	27500
10.719 V	DTV CABLE PL	27500
10.719 V	HALLMARK	27500
10.719 V	HBO	27500
10.719 V	HBO COMEDY	27500
10.719 V	HBO2	27500
10.719 V	INFO+/C+ Sport2	27500
10.719 V	MINIMINI	27500
10.719 V	Movies24	27500
10.719 V	MTV TWO	27500
10.719 V	Orange Sport	27500
10.719 V	PLANETE	27500
10.719 V	4fun.TV	27500
● 10.719 V	PATIO TV	27500
10.719 V	ESP	27500
10.719 V	tech 3	27500
10.723 H	Discovery Historia	29900
10.723 H	10.722 H	29900
10.723 H	ANT1 EUROPE	29900
10.723 H	Deepam TV	29900
● 10.723 H	Filmbox Family	29900
● 10.723 H	n Sport	29900
● 10.723 H	TVP Sport	29900
10.723 H	Buzz TV	29900
10.723 H	Canale 8	29900
10.723 H	Holiday Sat - Gold S	29900
● 10.723 H	Laurenti Channel	29900
10.723 H	LAZIO CHANNEL	29900
10.723 H	MTA INTL	29900
10.723 H	RTPi	29900
10.723 H	Telecolore	29900
10.723 H	NPR	29900
10.723 H	Radio A1	29900
10.723 H	RDPi Radio	29900
10.757 V	C Cinéma Classic	27500
10.757 V	C Cinéma Culte	27500
10.757 V	C Cinéma Emotion	27500
10.757 V	C Cinéma Famiz	27500
10.757 V	C Cinéma Frisson	27500
10.757 V	C Cinéma Premier	27500
10.757 V	C Cinéma Premier 16/	27500
10.757 V	C Cinéma Star	27500
10.757 V	TPS Star	27500
10.757 V	France Bleu	27500
10.757 V	France Vivace	27500
10.757 V	Sud Radio	27500
10.757 V	TPS & Vous	27500
10.775 H	AFN Atlantic/Power	28000
10.775 H	AFN Iraq Radio	28000
10.775 H	Bavaria	28000
10.775 H	Benelux	28000
10.775 H	Eifel	28000
10.775 H	Franconia	28000
10.775 H	Guide/Adult Rock	28000
10.775 H	Guide/AFN Bavaria	28000
10.775 H	Guide/AFN Bavaria	28000
10.775 H	Guide/AFN Benelux	28000
10.775 H	Guide/AFN Benelux	28000
10.775 H	Guide/AFN Franconi	28000
10.775 H	Guide/AFN Franconi	28000
10.775 H	Guide/AFN Heidelbe	28000
10.775 H	Guide/AFN Heidelbe	28000
10.775 H	Guide/AFN Hessen E	28000
10.775 H	Guide/AFN Hessen P	28000
10.775 H	Guide/AFN Kaisersl	28000
10.775 H	Guide/AFN Kaisersl	28000
10.775 H	Guide/AFN News Rad	28000
10.775 H	Guide/AFNE Eagle	28000
10.775 H	Guide/AFNE PowerNe	28000
10.775 H	Guide/Bright AC	28000
10.775 H	Guide/Contingency	28000
10.775 H	Guide/Country	28000
10.775 H	Guide/ESPN Radio	28000
10.775 H	Guide/Fox Sports Tal	28000
10.775 H	Guide/Hot AC	28000
10.775 H	Guide/NPR	28000
10.775 H	Guide/PowerNet/Hot	28000
10.775 H	Guide/Pure Gold	28000
10.775 H	Guide/The Touch	28000
10.775 H	Guide/Z-rock ABC H	28000
10.775 H	Heidelberg	28000
10.775 H	Hessen	28000
10.775 H	Kaiserslautern	28000
10.775 H	Pacific/Pure Gold	28000
10.775 H	Spectrum/Touch/Conti	28000
10.775 H	Sports/ESPN/FoxSpo	28000
10.775 H	Voice	28000
10.775 H	Bars and Test Tone +	28000
10.775 H	SMPTE Time Code	28000
10.775 H	UI Split/Voice	28000
● 10.795 V	D. SCIENCE	27500
● 10.795 V	D. TRAVEL	27500
● 10.795 V	D. WORLD	27500
● 10.795 V	NATIONAL GEO	27500
● 10.795 V	EDUSAT	27500
● 10.795 V	POLONIA1	27500
● 10.795 V	TELE5	27500
● 10.795 V	Music Choice 1	27500
● 10.795 V	Music Choice 2	27500
● 10.795 V	Music Choice 3	27500
● 10.795 V	Music Choice 4	27500
● 10.795 V	Music Choice 5	27500
● 10.795 V	Music Choice 6	27500
● 10.795 V	Music Choice 7	27500
● 10.795 V	MusicC. Dance	27500
● 10.795 V	MusicC. Klasyka	27500
● 10.795 V	MusicC. Oldies	27500
● 10.795 V	MusicC. Pop	27500
● 10.795 V	MusicC. Rock	27500
● 10.795 V	MusicC. Swiat	27500
● 10.795 V	MusicC. Urban	27500
10.892 H	119 test 1 E	27500
10.892 H	119 test 1. E	27500
10.892 H	119 test 2 E	27500
10.892 H	119 test 2. E	27500
10.892 H	119 test 3 E	27500
10.892 H	119 test 3. E	27500
10.892 H	ALE KINO!	27500
10.892 H	CANAL+	27500
10.892 H	CANAL+ FILM	27500
10.892 H	CANAL+ SPORT	27500
● 10.892 H	DOMO	27500
10.892 H	DTV CABLE	27500
10.892 H	DTV CABLE 2	27500
10.892 H	DTV CABLE 3	27500
10.892 H	DTV CABLE AL	27500
10.892 H	DTV CABLE KU	27500
10.892 H	DTV CABLE ZI	27500
10.892 H	H test 1	27500
10.892 H	H test 2	27500
10.892 H	H test 3	27500
10.892 H	KUCHNIA.TV	27500
10.892 H	TVP 1	27500
10.892 H	TVP 2	27500
10.892 H	ZigZap	27500
10.892 H	CYFRA+ RADIO	27500
10.892 H	CYFRA+ RMF	27500
10.892 H	tech	27500
10.892 H	tech 2	27500
10.892 H	CYFRA+ PR	27500
10.910 V	13ème RUE	27500
10.910 V	Eurosport	27500
10.910 V	Histoire	27500
10.910 V	LCI	27500
10.910 V	M6	27500

Freq Pol GHz	Channel Name	Symbol rate
10.910 V	Odyssée	27500
10.910 V	Planète Thalassa	27500
10.910 V	Privatespice	27500
10.910 V	TF1	27500
10.910 V	TF6	27500
10.910 V	Télétoon+1	27500
10.910 V	Météo Express	27500
10.910 V	Skyrock	27500
10.910 V	FIP	27500
10.910 V	France Culture	27500
10.910 V	France Musique	27500
10.910 V	Le Mouv	27500
● 10.910 V	Météo Express	27500
10.910 V	Radio Courtoisie	27500
10.930 H	A TEST	27500
10.930 H	Animal Planet	27500
10.930 H	MAD GREEKZ	27500
10.930 H	MGM	27500
10.930 H	MTV	27500
10.930 H	National Geographic	27500
10.930 H	novacinema1 Cy	27500
10.930 H	novacinema2	27500
10.930 H	novacinema2 Cy	27500
10.930 H	novasports3	27500
10.930 H	novasports3 Cy	27500
10.930 H	OTV Test	27500
10.930 H	SIGMA SPORTS 2	27500
10.930 H	Stest1	27500
10.930 H	Travel Channel	27500
10.930 H	VH1	27500
10.930 H	CITY 99,5	27500
10.930 H	CY Feed	27500
10.930 H	NOVA SCOPE	27500
10.930 H	novasport FM	27500
10.930 H	REAL FM	27500
10.930 H	SENTRA FM	27500
10.949 V	Cartoon Network	27500
10.949 V	CN/TCM	27500
10.949 V	Disney Channel	27500
10.949 V	Turner Classic Movie	27500
10.949 V	Al Forat	27500
10.949 V	Al Hiwar TV	27500
10.949 V	All Music	27500
10.949 V	ANB	27500
10.949 V	DMC TV	27500
10.949 V	Noursat	27500
10.949 V	Rete Capri	27500
10.949 V	Sun KTV	27500
10.949 V	Sun TV +442083356780	27500
10.949 V	Al Forat Radio	27500
10.949 V	IRN	27500
10.949 V	Radio Capri	27500
10.949 V	Suryan Radio	27500
11.117 V	BBC CBeebies Polan	27500
11.117 V	BBC Entertainment Po	27500
11.117 V	BBC Knowledge Poland	27500
11.117 V	BBC Lifestyle Poland	27500
11.117 V	BBC Prime	27500
11.117 V	D. Science	27500
11.117 V	D. Travel	27500
11.117 V	D. World	27500
11.117 V	Wedding TV	27500
11.117 V	BBC Persian	27500
11.117 V	BBC WS Persian Rad	27500
● 11.219 H	CNBC	27500
11.219 H	JimJam	27500
11.219 H	Prima Fila 31	27500
11.219 H	Prima Fila 32	27500
11.219 H	Prima Fila 33	27500
11.219 H	Prima Fila 36	27500
11.219 H	Prima Fila 37	27500
11.219 H	Prima Fila 38	27500
11.219 H	Prima Fila 39	27500
11.219 H	Prima Fila 40	27500
11.240 V	KP	27500
11.240 V	M	27500
11.240 V	S	27500
11.240 V	ESP Bulgarian	27500
11.240 V	ESP Cyprus	27500
11.240 V	ESP Czech	27500
11.240 V	ESP Dutch	27500
11.240 V	ESP Greek	27500
11.240 V	ESP Hungarian	27500
11.240 V	ESP Int'l	27500
11.240 V	ESP Polish	27500
11.240 V	ESP Portuguese	27500
11.240 V	ESP Romanian	27500
11.240 V	ESP Russian	27500
11.240 V	ESP Serbia	27500
11.240 V	ESP Turk	27500
11.240 V	ESP2 German	27500
11.240 V	ESP2 Greek	27500
11.240 V	ESP2 Int'l	27500
11.240 V	ESP2 Romanian	27500
11.240 V	ESP2 Rus	27500
11.240 V	ESP2 Serbia	27500
11.240 V	ESP2 Turk	27500
11.240 V	EUROSPORT PL	27500
11.240 V	EUROSPORT2 PL	27500
11.240 V	EUSP2 PL	27500
11.240 V	H1	27500
11.240 V	H2	27500
11.240 V	H3	27500
11.240 V	France 24 (en Franca	27500
11.240 V	France 24 (in Englis	27500
11.240 V	Prod ESP	27500
11.240 V	Prod ESP2	27500
11.258 H	Boomerang	27500
11.258 H	Cartoon TCM	27500
11.258 H	Cinemax 1	27500
11.258 H	Cinemax 2	27500
11.258 H	FILMBOX FAMILY	27500
11.258 H	HBO HD	27500
● 11.258 H	Jetix Play	27500
11.258 H	Jim Jam	27500
11.258 H	MTV2	27500
● 11.258 H	n 57	27500
● 11.258 H	n 58	27500
● 11.258 H	n 59	27500
11.258 H	NASN	27500
11.258 H	OTV	27500
11.258 H	Sport Klub	27500
11.258 H	Sport Klub +	27500
11.258 H	TVN Med	27500
11.258 H	TVP HD test	27500
11.258 H	TVP Historia	27500
11.258 H	TVP Sport	27500
11.258 H	ITVN EU	27500
11.258 H	R1	27500
11.278 V	CANAL+ FILM HD	27500
11.278 V	HBO HD	27500
11.278 V	CANAL+ SPORT HD	27500
11.278 V	ESP HD Bulgaria	27500
11.278 V	ESP HD Czech	27500
11.278 V	ESP HD Dutch	27500
11.278 V	ESP HD German	27500
11.278 V	ESP HD Hungarian	27500
11.278 V	ESP HD Intl	27500
11.278 V	ESP HD Italy	27500
11.278 V	ESP HD Polish	27500
11.278 V	ESP HD Portuguese	27500
11.278 V	ESP HD Russian	27500
11.278 V	ESP HD Turk	27500
11.278 V	EUROSPORT HD	27500
11.278 V	EUROSPORT HD PL	27500
11.278 V	EUSP PL AUDIO	27500
11.296 H	CONTO TV 1	27500
11.296 H	CONTO TV2	27500
11.296 H	S2K	27500
11.296 H	AB Channel	27500
11.296 H	ALL TV	27500
11.296 H	BLU	27500
11.296 H	Challenger Tv	27500
11.296 H	CONTO TV	27500
11.296 H	CONTO TV 3	27500
11.296 H	CONTO TV 4	27500
11.296 H	Denaro Tv	27500
11.296 H	IMC	27500
11.296 H	julie	27500
11.296 H	LIBERA	27500
11.296 H	Mediterraneo Sat 2	27500
11.296 H	MilanoTV Sat	27500
11.296 H	Napoli Mia	27500
11.296 H	Punto Sat	27500
11.296 H	Puntosat3	27500

Freq Pol GHz	Channel Name	Symbol rate
11.296 H	Radio Italia TV	27500
11.296 H	ROLSAT	27500
11.296 H	S.Neu Jerusalem	27500
11.355 V	SKY Focus HD	27500
11.355 V	Eurosport HD	27500
11.355 V	Fox Life +1	27500
11.355 V	Music Box	27500
11.355 V	NationalGeo HD	27500
11.355 V	Next HD	27500
11.355 V	Prima Fila 29	27500
11.355 V	Prima Fila 34	27500
11.355 V	Radio on SKY	27500
11.355 V	SKY Cinema HD	27500
11.355 V	SKY Sport HD	27500
11.355 V	SKY Test	27500
11.355 V	Kiss Kiss	27500
11.355 V	M2O	27500
11.355 V	R 101	27500
11.355 V	Radio 105	27500
11.355 V	Radio 24	27500
11.355 V	Radio Capital	27500
11.355 V	Radio DeeJay	27500
11.355 V	Radio Italia	27500
11.355 V	Radio Montecarlo	27500
11.355 V	RDS	27500
11.355 V	RTL 102.5	27500
11.355 V	Virgin Radio	27500
11.393 V	FILMBOX	27500
11.393 V	FILMBOX EXTRA	27500
11.393 V	TVN	27500
11.393 V	TVN 24	27500
11.393 V	TVN CNBC Biznes	27500
11.393 V	TVN METEO	27500
11.393 V	TVN Siedem	27500
11.393 V	TVN Style	27500
11.393 V	TVN TURBO	27500
● 11.393 V	TVN Warszawa	27500
11.393 V	Mango 24	27500
11.393 V	test_radio	27500
11.411 H	MTV IDOL	27500
11.411 H	MTV PULSE	27500
● 11.411 H	SEX ON TV CRYSTAL	27500
11.411 H	SEX ON TV DIAMOND	27500
● 11.411 H	SEX ON TV GOLD	27500
● 11.411 H	SEX ON TV SILVER	27500
11.411 H	ADJARA TV	27500
11.411 H	Bethel TV	27500
11.411 H	CALABRIA	27500
11.411 H	Cancao Nova	27500
11.411 H	Dorcel TV	27500
11.411 H	ECTV	27500
11.411 H	Extra 3	27500
11.411 H	PDF Channel	27500
11.411 H	RANG A RANG	27500
11.411 H	RTA	27500
● 11.411 H	SEX ON TV CLASSIC	27500
11.411 H	TAPESH TV2	27500
11.411 H	TIZIANA SAT	27500
11.411 H	TV2DAY	27500
● 11.449 H	AXN	27500
11.449 H	DaVinci	27500
11.449 H	Jetix	27500
11.449 H	Discovery HD	27500
11.449 H	MGM	27500
11.449 H	nSport	27500
11.488 H	ANIMAL PLANET	27500
11.488 H	CINEMAX	27500
11.488 H	CNBC	27500
11.488 H	KINO POLSKA	27500
● 11.488 H	RELIGIA.TV	27500
11.488 H	TRACE TV	27500
● 11.488 H	TVN LINGUA	27500
11.488 H	TVP INFO	27500
11.488 H	ZONE CLUB	27500
11.488 H	ZONE REALITY	27500
11.488 H	ITV	27500
11.488 H	PULS	27500
11.488 H	TV POLONIA	27500
11.488 H	TVP Kultura	27500
11.523 V	test	5000
11.526 H	TSR1	27500
11.526 H	TSI1	27500
11.526 H	TSI2	27500
11.526 H	TSR2	27500
11.526 H	SSR-Couleur3	27500
11.526 H	SSR-Espace 2	27500
11.526 H	SSR-La 1ere	27500
11.526 H	SSR-Option Musique	27500
11.526 H	SSR-Rete Due	27500
11.526 H	SSR-Rete Tre	27500
11.526 H	SSR-Rete Uno	27500
11.526 H	SSR-WRS	27500
11.747 H	AL ARABIYA	27500
11.747 H	AL SHARQIYA	27500
11.747 H	DUBAI SPORTS	27500
11.747 H	DUBAI TV	27500
11.747 H	EZ Shop	27500
11.747 H	INFINITY	27500
11.747 H	MBC MAGHREB AL AR	27500
11.747 H	ME SHOP	27500
11.747 H	PMC	27500
11.747 H	SAMADUBAI	27500
11.747 H	EDTV RADIO 1	27500
11.747 H	EDTV RADIO 2	27500
12.616 H	FX	27500
12.616 H	Prima Fila 1	27500
12.616 H	Prima Fila 10	27500
12.616 H	Prima Fila 12	27500
12.616 H	Prima Fila 2	27500
12.616 H	Prima Fila 4	27500
12.616 H	Prima Fila 6	27500
12.616 H	Prima Fila 7	27500
12.616 H	Prima Fila 9	27500
12.616 H	Vetrina Primafila	27500
12.635 V	Prima Fila 14	27500
12.635 V	Prima Fila 15	27500
12.635 V	Prima Fila 17	27500
12.635 V	Prima Fila 18	27500
12.635 V	Prima Fila 19	27500
12.635 V	Prima Fila 21	27500
12.635 V	Prima Fila 23	27500
12.635 V	Prima Fila 25	27500
12.635 V	Prima Fila 27	27500
12.635 V	Prima Fila 35	27500
12.654 H	AL IRAQIA TV	27500
12.654 H	ALMUSTAKILLA	27500
12.654 H	ESC	27500
12.654 H	JORDAN	27500
12.654 H	KUWAIT	27500
12.654 H	LIBYA	27500
12.654 H	OMAN	27500
12.654 H	QATAR TV	27500
12.654 H	SAUDI 1	27500
12.654 H	SHARJAH TV	27500
12.654 H	STRIKE TV	27500
12.654 H	SUDAN	27500
12.654 H	AL-IRAQIA QURAN	27500
12.654 H	ESC R1	27500
12.654 H	ESC R2	27500
12.654 H	ESC R3	27500
12.654 H	JORDAN R1	27500
12.654 H	KUWAIT R1	27500
12.654 H	KUWAIT R2	27500
12.654 H	OMAN R1	27500
12.654 H	OMAN R2	27500
12.654 H	OMAN R3	27500
12.654 H	OMAN-HOLY QURAN	27500
12.654 H	QATAR R1	27500
12.654 H	RADIO BAGHDAD	27500
12.654 H	SAUDI1 R1	27500
12.654 H	SAUDI1 R2	27500
12.654 H	SHARJAH R1	27500
12.654 H	SHARJAH R2	27500
12.654 H	SUDAN R1	27500
12.654 H	SUDAN R2	27500
12.673 V	AL Aoula	27500
12.673 V	Arriadia 2	27500
● 12.673 V	AL Aoula INTER	27500
12.673 V	AL MAGHRIBIA	27500
● 12.673 V	AlAoula INTER+L	27500
12.673 V	ARRABIAA	27500
12.673 V	ARRIADIA	27500
12.673 V	ASSADISSA	27500
12.673 V	Medi1SAT	27500
12.673 V	Amazigh	27500

Freq Pol GHz	Channel Name	Symbol rate
12.673 V	Chaine inter	27500
12.673 V	Radio Dakhla	27500
12.673 V	Radio FES	27500
12.673 V	Radio Mohamed VI	27500
12.673 V	RADIO MOHAMMED VI	27500
12.673 V	Radio national	27500
12.692 H	AB3	27500
12.692 H	AB4	27500
12.692 H	CINE FIRST	27500
12.692 H	CINE FX	27500
12.692 H	CINE POLAR	27500
12.692 H	France 2	27500
12.692 H	France 3	27500
12.692 H	France 4	27500
● 12.692 H	Gulli	27500
12.692 H	O. sport info	27500
12.692 H	TMC	27500
12.692 H	VIDEOCLICK	27500
● 12.692 H	Virgin 17	27500
12.692 H	Beur TV	27500
12.692 H	BIS TV PROMO	27500
12.692 H	LUXE TV	27500
12.713 V	Current	27500
● 12.713 V	Hip Hop TV	27500
12.713 V	NatGeo Music	27500
12.713 V	SNAI Sat	27500
12.713 V	Anc1003	27500
12.713 V	Anc1004	27500
12.713 V	Anc1005	27500
12.713 V	Anc1006	27500
12.713 V	SKY Meteo24	27500
12.713 V	SKY TG 24	27500
12.713 V	Test 24	27500
12.713 V	Test 5	27500
12.731 H	Boomerang	27500
12.731 H	Cartoon +1	27500
12.731 H	Fox	27500
12.731 H	GXT	27500
12.731 H	GXT +1	27500
12.731 H	Hallmark	27500
12.731 H	History	27500
12.731 H	Jetix +1	27500
12.731 H	NationalGeo	27500
12.731 H	Roma Channel	27500
12.731 H	The MGM Channel	27500
10.830 H	Autonomia	3333
12.130 H	m2 HD	27500
12.130 H	m2	27500
12.130 H	m2 16:9	27500
12.130 H	MR3 Bartok	27500
● 12.577 V	Administra.it - FLTV	27500
12.577 V	AL JAZEERA CHILDR	27500
12.577 V	EDUSAT	27500
12.577 V	POLONIA1	27500
● 12.577 V	T. R. Padre Pio	27500
12.577 V	TELE5	27500
● 12.577 V	TELELOTTO	27500

Europe

EUTELSAT W2

16.0 East

EUT0W2KW

Freq Pol GHz	Channel Name	Symbol rate
10.972 V	BBC Prime	27500
10.972 V	FreeX TV	27500
10.972 V	FreeX TV 2	27500
10.972 V	Hallmark	27500
10.972 V	Kanal D	27500
10.972 V	Kopernikus	27500
10.972 V	Most	27500
10.972 V	Motors TV	27500
10.972 V	MTV Adria	27500
10.972 V	TV1000	27500
10.972 V	Viasat History	27500
10.972 V	X-Dream TV	27500
10.972 V	Viasat Explorer	27500
10.976 H	DigitAlb HD-1	22500
● 10.976 H	DigitAlb HD-2	22500
10.976 H	DigitAlb HD-3	22500
● 10.976 H	Nat Geo HD	22500
10.976 H	SuperSport HD-1	22500
10.976 H	SuperSport HD-2	22500
● 11.011 V	AXN	27500
11.011 V	Cinemax	27500
11.011 V	Diema	27500
11.011 V	Diema Family	27500
11.011 V	Diema2	27500
11.011 V	Eurosport	27500
● 11.011 V	Hallmark	27500
11.011 V	HBO	27500
● 11.011 V	Hustler TV	27500
● 11.011 V	MMTV	27500
11.011 V	N.Geographic	27500
11.011 V	Nova+	27500
11.011 V	TV2	27500
11.011 V	TV7	27500
11.011 V	BNT Sat	27500
● 11.011 V	Fiesta TV	27500
● 11.011 V	VTV	27500
11.011 V	BNR Horizont	27500
● 11.011 V	ESP test	27500
11.011 V	Radyo Lojik	27500
● 11.034 V	AXN	27500
11.034 V	Cinemax	27500
11.034 V	Diema	27500
11.034 V	Diema Family	27500
11.034 V	Diema2	27500
11.034 V	Eurosport	27500
● 11.034 V	Hallmark	27500
11.034 V	HBO	27500
● 11.034 V	Hustler TV	27500
● 11.034 V	MMTV	27500
11.034 V	N.Geographic	27500
11.034 V	Nova+	27500
11.034 V	TV2	27500
11.034 V	TV7	27500
11.034 V	BNT Sat	27500
● 11.034 V	Fiesta TV	27500
● 11.034 V	VTV	27500
11.034 V	BNR Horizont	27500
● 11.034 V	ESP test	27500
11.034 V	Radyo Lojik	27500
11.045 H	National TV	10555
11.045 H	Favorit TV	10555
11.045 H	National 24	10555
11.045 H	Favorit FM	10555
11.045 H	National FM	10555
11.055 V	Bang Bang	27900
11.055 V	Cufo Tv	27900
● 11.055 V	Digi+	27900
● 11.055 V	Digifilm 5	27900
● 11.055 V	Digifilm Autor	27900
● 11.055 V	Digifilm Premiere	27900
11.055 V	Explorer 1	27900
11.055 V	Explorer 2	27900
● 11.055 V	Explorer 3	27900
11.055 V	Junior Tv	27900
● 11.055 V	My-Music	27900
11.055 V	Top Channel	27900
11.055 V	Top News	27900
● 11.055 V	My Music Radio	27900
● 11.055 V	Top Albania Radio	27900
● 11.061 H	Nat Geo Music	5722
● 11.061 H	Test Voxson	5722
● 11.061 H	Ecoradio	5722
● 11.061 H	Radio 6	5722
● 11.061 H	Radio Citta Futura	5722
● 11.061 H	Rete Sport	5722
● 11.094 V	4-X	27900
● 11.094 V	BBF	27900

Freq Pol GHz	Channel Name	Symbol rate
● 11.094 V	Digitalb 12	27900
● 11.094 V	Digitalb16	27900
● 11.094 V	Fox Crime	27900
● 11.094 V	Fox Life	27900
● 11.094 V	MGM	27900
● 11.094 V	Nat Geo	27900
● 11.094 V	Nat Geo Wild	27900
● 11.094 V	Neser Tv	27900
● 11.094 V	SuperSonic Tv	27900
● 11.094 V	Tirana Tv	27900
● 11.094 V	TVA	27900
● 11.094 V	XXX	27900
● 11.094 V	Channel X	27900
● 11.094 V	Digifilm 6	27900
● 11.094 V	Digifilm 7	27900
● 11.094 V	Digifilm 8	27900
● 11.094 V	XX	27900
● 11.094 V	Top Gold Radio	27900
● 11.095 H	Alfa	27300
● 11.095 H	B92 Info	27300
● 11.095 H	E!	27300
● 11.095 H	Happy Cable	27300
● 11.095 H	History Channel	27300
● 11.095 H	Jetix	27300
● 11.095 H	Minimax/FilmPlus	27300
● 11.095 H	Reality	27300
● 11.095 H	Romantica	27300
● 11.095 H	Test Service	27300
● 11.095 H	Televizija S	27300
● 11.132 V	Antena 1	14815
● 11.132 V	Antena 2	14815
● 11.132 V	Antena 3	14815
● 11.132 V	Antena International	14815
● 11.132 V	Euforia Lifestyle	14815
● 11.132 V	Radio Romantic	14815
● 11.132 V	Radio ZU	14815
● 11.138 H	BBT	27700
● 11.138 H	BNT 1	27700
● 11.138 H	bTV	27700
● 11.138 H	EK Bulgaria	27700
● 11.138 H	Evrokom NCTV	27700
● 11.138 H	FOX Crime	27700
● 11.138 H	Fox Crime BG	27700
● 11.138 H	Fox Life	27700
● 11.138 H	FOX Life Regional	27700
● 11.138 H	Kanal 1- PP	27700
● 11.138 H	Nova	27700
● 11.138 H	Ring TV	27700
● 11.138 H	Balkanika	27700
● 11.138 H	EvropaTV	27700
● 11.138 H	FANTV	27700
● 11.138 H	Radio 1 Rock	27700
● 11.138 H	AUREA Radio	27700
● 11.138 H	Darik Radio	27700
● 11.138 H	ESP BG	27700
● 11.138 H	Hristo Botev	27700
● 11.138 H	JAZZ FM	27700
● 11.138 H	OK RADIO BELGRADE	27700
● 11.138 H	Radio SRBIJA	27700
● 11.138 H	Radio Veronika	27700
● 11.138 H	Radio ZA Sevdah	27700
● 11.138 H	Z- ROCK	27700
● 11.148 V	7dni	8900
● 11.148 V	Ekids	8900
● 11.148 V	Evrofootball	8900
● 11.148 V	RE:TV	8900
● 11.148 V	Test Channel	8900
● 11.158 V	Pink	27500
● 11.158 V	Pink Action	27500
● 11.158 V	Pink BH	27500
● 11.158 V	Pink Extra	27500
● 11.158 V	Pink Film	27500
● 11.158 V	Pink Kids	27500
● 11.158 V	Pink M	27500
● 11.158 V	Pink Movies	27500
● 11.158 V	Pink Music	27500
● 11.158 V	Pink Plus	27500
● 11.158 V	Fashion TV	27500
● 11.158 V	Pink Family	27500
● 11.158 V	RADIO INDEX	27500
● 11.158 V	Radio Pink	27500
● 11.178 V	Pink	27500
● 11.178 V	Pink Action	27500
● 11.178 V	Pink BH	27500
● 11.178 V	Pink Extra	27500
● 11.178 V	Pink Film	27500
● 11.178 V	Pink Kids	27500
● 11.178 V	Pink M	27500
● 11.178 V	Pink Movies	27500
● 11.178 V	Pink Music	27500
● 11.178 V	Pink Plus	27500
● 11.178 V	Fashion TV	27500
● 11.178 V	Pink Family	27500
● 11.178 V	RADIO INDEX	27500
● 11.178 V	Radio Pink	27500
● 11.304 V	Animal Planet	30000
● 11.304 V	BTV1	30000
● 11.304 V	BTV2	30000
● 11.304 V	Discovery	30000
● 11.304 V	GTV	30000
● 11.304 V	NW	30000
● 11.304 V	Planeta	30000
● 11.304 V	Premium Digital	30000
● 11.304 V	RBS	30000
● 11.304 V	Folklor TV	30000
● 11.304 V	IkonomikaTV EBF	30000
● 11.304 V	SC Folk	30000
● 11.304 V	Zdrave	30000
● 11.428 V	ATV	30000
● 11.428 V	Avala	30000
● 11.428 V	FOX	30000
● 11.428 V	FTV	30000
● 11.428 V	HBO Comedy	30000
● 11.428 V	Metropolis	30000
● 11.428 V	OBN	30000
● 11.428 V	Palma Plus	30000
● 11.428 V	Panonija	30000
● 11.428 V	RTRS	30000
● 11.428 V	Sport Klub+	30000
● 11.428 V	Top Shop TV	30000
● 11.428 V	Travel	30000
● 11.428 V	Spectrum	30000
● 11.449 H	Digi Gold	27500
● 11.449 H	Folk Tv	27500
● 11.449 H	Klan Tv	27500
● 11.449 H	Koha Tv	27500
● 11.449 H	KTV	27500
● 11.449 H	News 24	27500
● 11.449 H	Ora News	27500
● 11.449 H	RTV 21	27500
● 11.449 H	SuperSport 1	27500
● 11.449 H	SuperSport 2	27500
● 11.449 H	SuperSport 3	27500
● 11.449 H	SuperSport 4	27500
● 11.449 H	SuperSport 5	27500
● 11.449 H	TVSH Tokesor	27500
● 11.449 H	Digitalb Promo	27500
● 11.471 V	TVR HD	29950
● 11.471 V	TVR1	29950
● 11.471 V	TVR2	29950
● 11.471 V	TVR Cluj	29950
● 11.471 V	TVR Craiova	29950
● 11.471 V	TVR Cultural	29950
● 11.471 V	TVR Iasi	29950
● 11.471 V	TVR Info	29950
● 11.471 V	TVR Timisoara	29950
● 11.471 V	TVR3	29950
● 11.471 V	TVRi	29950
● 11.471 V	Romania in Direct	29950
● 11.471 V	Romania Internationa	29950
● 11.513 V	Brava TV	29950
● 11.513 V	CNNi	29950
● 11.513 V	Disc.Science	29950
● 11.513 V	Disc.Travel	29950
● 11.513 V	Disc.World	29950
● 11.513 V	Reality Tv	29950
● 11.513 V	Tv 1000	29950
● 11.513 V	U Tv	29950
● 11.513 V	VH 1	29950
● 11.513 V	Viasat Explorer	29950
● 11.513 V	Viasat History	29950
● 11.513 V	AlfaOmega	29950
● 11.513 V	ALPHA TV	29950
● 11.513 V	Credo Tv	29950
● 11.513 V	Dambovita TV	29950

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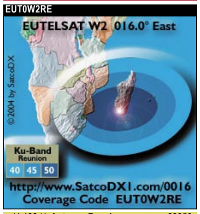
SatcoDX Global Satellite Chart 02/2009

Freq GHz	Pol	Channel Name	Symbol rate
●11.513	V	ifTv	29950
●11.513	V	Pro Tv Intl	29950
●11.513	V	Trinitas	29950
●11.513	V	Minisat	29950
●11.513	V	Radio K	29950
●11.513	V	RFI	29950
●11.513	V	Vocea Evangheliei	29950
●11.554	V	B92	30000
●11.554	V	Cinemania	30000
●11.554	V	DoQ	30000
●11.554	V	Enter	30000
●11.554	V	Film +	30000
●11.554	V	Happy/Kosava	30000
●11.554	V	HBO Adria	30000
●11.554	V	RTS1	30000
●11.554	V	RTS2	30000
●11.554	V	SOS	30000
●11.554	V	Sport Klub	30000
●11.554	V	Studio B	30000
●11.554	V	Super TV	30000
●11.554	V	Ultra TV	30000
●11.554	V	Radio B92	30000
●12.513	V	MELOS TV	2156
●12.520	V	Top Music	2156
●12.533	V	OU	5100
●12.538	V	BN R.Srpska	4340
●12.557	V	DM SAT	2156
●12.592	V	first_service	2934
●12.600	V	ATLAS	6771
●12.600	V	RTV MONTENEGRO	6771
●12.600	V	Radio ATLAS	6771
●12.600	V	Radio Montenegro	6771
●12.648	V	BH-TV1	5200
●12.648	V	BH-Radio1	5200
●12.650	H	44-SNAI TV promo	15000
●12.650	H	77- AUDIO UNICO	15000
●12.650	H	CH 10 - UNIRE BLU	15000
●12.650	H	CH 20 - U VERDE S	15000
●12.650	H	CH 4 - SNAI TV	15000
●12.650	H	CH 6 - U GRIGIO S	15000
●12.650	H	CH 7 - SPORTIVE S	15000
●12.650	H	UNIRE 1 - GRIGIO	15000
●12.650	H	UNIRE 2 - VERDE	15000
●12.650	H	CH 3 - CANALE TES	15000
●12.726	V	Kanal A	30000
●12.726	V	POP TV	30000
●12.726	V	SportKlub Slovenija	30000
●12.726	V	TV Pika	30000
●12.726	V	TV3 Slovenia	30000
●12.726	V	ALFA TV	30000
●12.726	V	ART Channel	30000
●12.726	V	ASTRO TV	30000
●12.726	V	Duga TV	30000
●12.726	V	Estate TV & TV1	30000
●12.726	V	HipHop TV	30000
●12.726	V	InfoTV	30000
●12.726	V	Radio SvetPLUS	30000
●12.726	V	StaticTvServiceTest1	30000
●12.726	V	Svet Plus	30000
●12.726	V	Test	30000
●12.726	V	TV 24 SAT	30000
●12.726	V	TV Jasmin	30000
●12.726	V	GRAND	30000
●12.726	V	Khrlo e Romengo	30000
●12.726	V	KISS DOINA VLASKI	30000
●12.726	V	KISS RADIO - MINH	30000
●12.726	V	KISS ROM RADIO -	30000
●12.726	V	LIJEPA NASA	30000
●12.726	V	LJUBICA-KAMENJE	30000
●12.726	V	MB MITIC BILJANA	30000
●12.726	V	MIKS RADIO	30000
●12.726	V	Oldies Radio	30000
●12.726	V	ORV Valentino BH	30000
●12.726	V	PLANET MUSIC	30000
●12.726	V	Radio 1	30000
●12.726	V	Radio BRCKO	30000
●12.726	V	Radio Brod	30000
●12.726	V	Radio DUKAT	30000
●12.726	V	Radio Fles	30000
●12.726	V	Radio Glas Drine	30000
●12.726	V	RADIO HRGOVI	30000
●12.726	V	RADIO IZVOR	30000
●12.726	V	Radio KOKTEL	30000
●12.726	V	Radio Pink Int	30000
●12.726	V	RADIO POSAVINA	30000
●12.726	V	RADIO RAKA ESINGE	30000
●12.726	V	RADIO S BEOGRAD	30000
●12.726	V	RADIO TREF PLUS	30000
●12.726	V	Radio VELKATON	30000
●12.726	V	Radio Za Sevdah	30000
●12.726	V	Radio Zurka Wien	30000
●12.726	V	SAJKASKA	30000
●12.726	V	Srpski Radio Suton	30000
●12.726	V	Top 3 radio	30000
●12.726	V	Vikom RTV	30000
●12.726	V	VIP Radio	30000
●12.734	H	Best of Macedonia	7609
●12.734	H	K15 Music	7609
●12.734	H	K15 TV	7609
●12.734	H	MKTV Sat	7609
●12.734	H	Sitel	7609
●12.734	H	Sitel 3	7609
●12.735	H	Best of Macedonia	7609
●12.735	H	K15 Music	7609
●12.735	H	K15 TV	7609
●12.735	H	MKTV Sat	7609
●12.735	H	Sitel	7609
●12.735	H	Sitel 3	7609

East Africa
EUTELSAT W2
16.1 East
EUT0W2RE



Freq GHz	Pol	Channel Name	Symbol rate
11.486	H	Antenne Reunion	29950
11.486	H	BFM TV	29950
11.486	H	CC Classic	29950
11.486	H	CC Culte	29950
11.486	H	CC Emotions	29950
11.486	H	CC Famiz	29950
11.486	H	CC Frissons	29950
11.486	H	CC Premier	29950
11.486	H	CC Star	29950
11.486	H	Discovery	29950
11.486	H	M6	29950
11.486	H	MANGAS	29950
11.486	H	Planete Juniors	29950
11.486	H	REAL TIME	29950
11.486	H	RTL9	29950
11.486	H	Serie Club	29950
11.486	H	STAR AC 8	29950
11.486	H	Supersport 3	29950
11.486	H	TeleReunion	29950
11.486	H	Tempo	29950
11.486	H	Teva	29950
11.486	H	TF6	29950
11.486	H	Cherie FM	29950
11.486	H	EXO FM	29950
11.486	H	Festival	29950
11.486	H	KOI	29950
11.486	H	Kreol FM	29950
11.486	H	NRJ Reunion	29950
11.486	H	Radio One	29950
11.486	H	RER	29950
●11.596	H	AB moteurs	30000
●11.596	H	CNN I	30000
●11.596	H	Comedie	30000
●11.596	H	DORCEL TV	30000
●11.596	H	Equidia	30000
●11.596	H	Eurosport	30000
●11.596	H	Eurosport 2	30000
●11.596	H	Fun TV	30000
●11.596	H	G SPORT ONE	30000
●11.596	H	Hotshow	30000
●11.596	H	Infosport	30000
●11.596	H	LCI	30000
●11.596	H	M6 Music Black	30000
●11.596	H	M6 Music Hits	30000
●11.596	H	Odyssee	30000
●11.596	H	TF1	30000
●11.596	H	TPS FOOT	30000
●11.596	H	TPS Star	30000
●11.596	H	TV Breizh	30000
●11.596	H	W9	30000
●11.596	H	Europe 1	30000
●11.596	H	Free DOM	30000
●11.596	H	Nostalgie	30000
●11.596	H	Radio Classique	30000
●11.596	H	Radio Plus	30000
●11.596	H	Radio Reunion	30000
●11.596	H	Radio Tana	30000
●11.596	H	RTA Gasy Radio	30000
●11.596	H	RTL	30000
●11.596	H	Sport O FM	30000
●11.596	H	Top FM	30000
●11.596	H	MIM Mayotte	30000
●11.596	H	RCF	30000
●11.658	H	{Empty Name}	30000
11.492	H	Antenne Reunion	29950
11.492	H	BFM TV	29950
11.492	H	CC Classic	29950
11.492	H	CC Culte	29950
11.492	H	CC Emotions	29950
11.492	H	CC Famiz	29950
11.492	H	CC Frissons	29950
11.492	H	CC Premier	29950
11.492	H	CC Star	29950
11.492	H	Discovery	29950
11.492	H	M6	29950
11.492	H	MANGAS	29950
11.492	H	Planete Juniors	29950
11.492	H	REAL TIME	29950
11.492	H	RTL9	29950
11.492	H	Serie Club	29950
11.492	H	STAR AC 8	29950
11.492	H	Supersport 3	29950
11.492	H	TeleReunion	29950
11.492	H	Tempo	29950
11.492	H	Teva	29950
11.492	H	TF6	29950
11.492	H	Cherie FM	29950
11.492	H	EXO FM	29950
11.492	H	Festival	29950
11.492	H	KOI	29950
11.492	H	Kreol FM	29950
11.492	H	NRJ Reunion	29950
11.492	H	Radio One	29950
11.492	H	RER	29950

Europe
ASTRA 1F,1G,1H,1KR,1L
19.2 East

Freq GHz	Pol	Channel Name	Symbol rate
10.936	V	RADIOBOB	
11.656	V	Antenne Brandenburg	
11.656	V	Fritz	
11.656	V	RBB 88acht	
11.656	V	RBB info	
11.656	V	RBB Kultur	
11.656	V	RBB Multikulti	
11.656	V	RBB Radio 1	
11.435	V	PORTADA	22000
11.435	V	TCM MODERNO	22000
11.435	V	TELEFE INT	22000
11.332	H	Antenne Bayern	
11.332	H	Rock Antenne	
11.720	H	PREMIERE FILMCLAS	27500
11.720	H	PREMIERE FILMFEST	27500
11.720	H	PREMIERE NOSTALGI	27500
11.720	H	PREMIERE SPORT PO	27500
●11.739	V	GAME ONE	27500
●11.739	V	MTV	27500
11.739	V	MTV BASE	27500
11.739	V	MTV Dance	27500
11.739	V	MTV ESP	27500
11.739	V	MTV Hits	27500
11.739	V	MTV Hits.	27500
11.739	V	MTV TWO	27500
11.739	V	MTV TWO.	27500
●11.739	V	Nick ESP	27500
11.739	V	NICKELODEON Franc	27500
11.739	V	VH1	27500
11.739	V	VH1 Classic	27500
11.739	V	VH1 Classic.	27500
11.739	V	VH1.	27500
●11.758	V	GAME ONE	27500
●11.758	V	MTV	27500
11.758	V	MTV BASE	27500
11.758	V	MTV Dance	27500
11.758	V	MTV ESP	27500
11.758	V	MTV Hits	27500
11.758	V	MTV Hits.	27500
11.758	V	MTV TWO	27500
11.758	V	MTV TWO.	27500
●11.758	V	Nick ESP	27500
11.758	V	NICKELODEON Franc	27500
11.758	V	VH1	27500
11.758	V	VH1 Classic	27500
11.758	V	VH1 Classic.	27500
11.758	V	VH1.	27500
11.759	H	ANIMAL PLANET	27500
11.759	H	BEATE-UHSE.TV	27500
11.759	H	CLASSICA	27500
11.759	H	DISCOVERY CHANNEL	27500
11.759	H	DISCOVERY GESCHIC	27500
11.759	H	DISNEY CHANNEL	27500
11.759	H	FOCUS GESUNDHEIT	27500
11.759	H	JETIX	27500
11.759	H	JUNIOR	27500
●11.797	H	FOX	27500
11.797	H	PREMIERE 1	27500
11.797	H	PREMIERE 2	27500
11.797	H	PREMIERE 3	27500
11.797	H	PREMIERE 4	27500
11.797	H	PREMIERE KRIMI	27500
11.817	V	C CINEMA EMOTION	27500
11.817	V	C CINEMA FRISSON	27500
11.817	V	HISTOIRE	27500
11.817	V	ITELE	27500
11.817	V	JIMMY	27500
11.817	V	LA CHAINE METEO	27500
11.817	V	MEZZO	27500
11.817	V	MEZZO.	27500
11.817	V	PARIS PREMIERE	27500
11.817	V	SEASONS	27500
11.817	V	SPORT+	27500
11.817	V	EURONEWS	27500
11.856	V	EQUIDIA	27500
11.856	V	C CINEMA PREMIER	27500
11.856	V	CANAL+	27500
11.856	V	CANAL+ CINEMA	27500
11.856	V	CANAL+ DECALE	27500
11.856	V	CANAL+ FAMILY	27500
11.856	V	CANAL+ SPORT	27500
11.856	V	DISNEY CHANNEL	27500
11.856	V	PMU sur Canal+	27500
11.876	H	AXN (a/P)	27500
11.876	H	BOOMERANG (a/P)	27500
11.876	H	DISNEY PLAYHOUSE	27500
11.876	H	DISNEY TOON (P)	27500
11.876	H	E.CLIPS (P)	27500
11.876	H	KINOWELT TV (P)	27500
11.876	H	ROMANCE TV	27500
11.876	H	sportdigital.tv	27500
11.876	H	TCM (a/P)	27500
11.876	H	STAR XL LIVE	27500
11.895	V	CHEZ VOUS TV	27500
●11.895	V	CINECINEMA CLUB	27500
11.895	V	M6	27500
11.895	V	MCM	27500
11.895	V	MCM POP	27500
11.895	V	MCM TOP	27500
11.895	V	TF1	27500
11.895	V	VIRGIN 17	27500
11.934	V	CANAL J	27500
11.934	V	CUISINE TV	27500
11.934	V	EUROSPORT	27500
11.934	V	FILLES TV	27500
11.934	V	LCI	27500
11.934	V	PLANETE	27500
11.934	V	PLANETE JUNIORS	27500
11.934	V	SCI FI	27500
11.934	V	TIJI	27500
11.934	V	TMC	27500
11.934	V	VOYAGE	27500
11.973	V	MTV ENTERTAINMENT	27500
11.973	V	MTV Euro	27500
11.973	V	MTV IDOL	27500
11.973	V	MTV Music	27500
11.973	V	MTV NL	27500
11.973	V	MTV PULSE	27500
11.973	V	NICK PREMIUM (P)	27500
11.973	V	COMEDY CENTRAL Ge	27500
11.973	V	MTV Germany	27500
11.973	V	NICK Germany	27500
11.973	V	VIVA Germany	27500
11.993	H	Cool	27500
11.993	H	Duna TV	27500
11.993	H	Echo TV	27500
11.993	H	Film+	27500
11.993	H	HBO	27500
11.993	H	HBO2	27500
11.993	H	m2	27500
11.993	H	Magyar ATV	27500
11.993	H	Minimax / Animax	27500
11.993	H	Sport 1	27500
11.993	H	Sport 2	27500
11.993	H	TV Deko	27500
11.993	H	TV Paprika	27500
12.012	V	A LA CARTE 10	27500
12.012	V	A LA CARTE 11	27500
12.012	V	ESPN CLASSIC	27500
12.012	V	FRANCE 2	27500
12.012	V	FRANCE 3	27500
12.012	V	MOTORS TV	27500
12.012	V	TELE MELODY	27500
12.012	V	TRACE TV	27500
12.012	V	CINE+	27500
12.012	V	TELEREALITE	27500
12.012	V	A LA CARTE	27500
12.031	H	13 TH STREET	27500
12.031	H	BLUE MOVIE	27500
12.031	H	MGM	27500
12.031	H	SCI FI	27500
12.031	H	PREMIERE DIREKT	27500
12.305	H	Animal Planet	27500
●12.305	H	Discovery Channel	27500
12.305	H	Extreme Sports	27500
12.305	H	Hallmark	27500
12.305	H	HBO Comedy	27500
12.305	H	Hustler TV	27500
12.305	H	Jetix/Jetix Max	27500
12.305	H	JimJam	27500
●12.305	H	National Geographic	27500
●12.305	H	NOVA SPORT	27500
●12.305	H	Zone Reality	27500
12.383	H	CT1	27500
12.383	H	CT2	27500
12.383	H	CT4 Sport	27500
12.383	H	Eurosport 2	27500
12.383	H	Filmmuzeum	27500
12.383	H	NOVA Cinema	27500
12.383	H	Prima TV	27500
●12.383	H	TEST	27500
12.383	H	TV JOJ	27500
12.383	H	TV Markiza	27500
12.383	H	TV Nova	27500
12.383	H	XXX	27500
12.383	H	CT24	27500
12.515	H	Film1.1	22000
12.515	H	Film1.2	22000
12.515	H	NED1	22000
12.515	H	NED2	22000
12.515	H	NED3	22000
12.515	H	NGC	22000
12.515	H	Nickelodeon/Comedy C	22000
12.515	H	Sport1	22000
12.515	H	Classic FM	22000
12.515	H	Q-Music	22000
12.515	H	FunX	22000
12.515	H	R538 Dance Departmen	22000
12.552	V	[tru:] young tv	22000
12.552	V	Astra Vision	22000
12.552	V	Bloomberg TV Germany	22000
12.552	V	Chamber TV	22000
●12.552	V	em24	22000
12.552	V	eUrotic NEU	22000
12.552	V	LibertyTV FR	22000
12.552	V	LUXE.TV SD	22000
12.552	V	Medi1SAT	22000
12.552	V	QVC Deutschland	22000
12.552	V	RTL Tele Letzebuerg	22000
12.574	H	Action/Etalage	22000
12.574	H	Eredivisielive 1	22000
12.574	H	Film1.3	22000
12.574	H	NET5	22000
12.574	H	SBS6	22000
12.574	H	TMF	22000
12.574	H	Veronica/JETIX	22000
12.574	H	BiB	22000
12.574	H	BVN	22000
12.574	H	NL-3FM	22000
12.574	H	NL-Radio 2	22000
12.574	H	NL-Radio 4	22000
12.574	H	CAZ!	22000
12.574	H	Juize.FM	22000
12.574	H	KINK FM	22000
12.574	H	NL-Radio 1	22000
12.574	H	NL-Radio 5	22000
12.574	H	NL-Radio 6	22000
12.574	H	Radio Veronica	22000
12.574	H	Radio10Gold	22000
12.574	H	Radio538	22000
12.574	H	RNW1	22000
12.574	H	RNW2	22000
12.574	H	RNW3	22000
12.574	H	Sky Radio	22000
12.604	H	WDR Aachen	22000
12.604	H	WDR Bonn	22000
12.604	H	WDR Duisburg	22000
12.604	H	WDR Wuppertal	22000
●12.669	V	EUROSPORT HD	22000
●12.669	V	USHUAIA TV HD	22000
●11.778	V	MTVNHD	27500
11.778	V	Boomerang	27500
11.778	V	Cartoon Network	27500
11.778	V	TCM	27500
11.778	V	TVBS	27500
11.778	V	CNN Int.	27500
11.778	V	CNN Radio	27500
11.836	H	Bayerisches FS Nord	27500
11.836	H	Bayerisches FS Süd	27500
11.836	H	BR-alpha*	27500
11.836	H	Das Erste	27500
11.836	H	hr-fernsehen	27500
11.836	H	SWR Fernsehen BW	27500
11.836	H	WDR Köln	27500
11.915	H	DISCOVERY HD	27500
11.915	H	PREMIERE HD	27500
11.915	H	ANIXE HD	27500
11.915	H	ASTRA HD+	27500
11.954	H	3sat	27500
11.954	H	KiKa	27500
11.954	H	ZDF	27500
11.954	H	ZDFdokukanal	27500
11.954	H	ZDFinfokanal	27500
11.954	H	ZDFtheaterkanal	27500
11.954	H	DKULTUR	27500
11.954	H	DLF	27500
11.954	H	Dok&Deb	27500
12.051	V	PULS 4 Austria	27500
12.051	V	Kabel 1 Austria	27500
12.051	V	Kabel 1 Schweiz	27500
12.051	V	ProSieben Austria	27500
12.051	V	ProSieben Schweiz	27500
12.051	V	SAT.1 A	27500
12.051	V	SAT.1 CH	27500
12.070	H	1-2-3.tv	27500
12.070	H	GOLDSTAR TV	27500
12.070	H	HEIMATKANAL	27500
12.070	H	HIT24	27500
12.070	H	PREMIERE START	27500
12.070	H	RTL CRIME	27500
12.070	H	RTL PASSION	27500
12.070	H	P-60ER/70ER	27500
12.070	H	P-80ER/90ER	27500
12.070	H	P-COUNTRY	27500
12.070	H	P-DEUTSCHE CHARTS	27500
12.070	H	P-LOVE SONGS	27500
12.070	H	P-RnB/HIP HOP	27500
12.070	H	P-ROCK HYMNEN	27500
12.090	V	C CINEMA STAR	27500
12.090	V	DISCOVERY	27500
12.090	V	INFOSPORT	27500
12.090	V	M6 MUSIC HITS	27500
12.090	V	PINK TV/PINK X	27500
12.090	V	SERIE CLUB	27500
12.090	V	TELETOON	27500
12.090	V	TELETOON+1	27500
12.090	V	TPS STAR	27500
12.090	V	W9	27500
12.110	H	ARD-TEST-2	27500
12.110	H	MDR S-Anhalt	27500
12.110	H	MDR Sachsen	27500
12.110	H	MDR Thüringen	27500
12.110	H	NDR FS HH	27500
12.110	H	NDR FS MV	27500
12.110	H	NDR FS NDS	27500
12.110	H	NDR FS SH	27500
12.110	H	rbb Berlin	27500
12.110	H	rbb Brandenburg	27500
12.110	H	SWR Fernsehen RP	27500
12.110	H	ARD-Online-Kanal	27500
12.129	V	A LA CARTE 1	27500
12.129	V	A LA CARTE 13	27500
12.129	V	A LA CARTE 14	27500
12.129	V	A LA CARTE 2	27500
12.129	V	A LA CARTE 3	27500
12.129	V	A LA CARTE 4	27500
12.129	V	A LA CARTE 5	27500
12.129	V	A LA CARTE 6	27500
12.129	V	A LA CARTE 7	27500
12.129	V	A LA CARTE 8	27500
12.129	V	A LA CARTE 9	27500
12.149	H	Alpenglühen TVX	27500
12.149	H	BD 4	27500
12.149	H	PFH	27500
12.149	H	PREMIERE Austria	27500
12.149	H	Der Schmuckkanal	27500
12.149	H	GOD Channel	27500
●12.149	H	HOPE Channel deutsch	27500
12.149	H	Q TV SHOP	27500
12.149	H	RNF	27500
12.149	H	TIER.TV	27500
12.149	H	Voyages Television	27500
12.149	H	YAVIDO CLIPS	27500
12.149	H	2255 Gewinnradio	27500
12.149	H	ANTENNE BAYERN	27500
12.149	H	ERF Radio	27500
12.149	H	ROCK ANTENNE	27500
12.149	H	sunshine live	27500
12.168	V	C CINEMA 16/9	27500
12.168	V	EUROSPORT 2	27500
12.168	V	EXTREME SPORTS	27500
12.168	V	FRANCE 4	27500
12.168	V	NAT GEO WILD	27500
12.168	V	PIWI	27500
12.168	V	TF6	27500
12.168	V	USHUAIA TV	27500
●12.168	V	A LA DEMANDE	27500
12.188	H	n-tv	27500
12.188	H	RTL HB NDS	27500
12.188	H	RTL HH SH	27500
12.188	H	RTL Shop	27500
12.188	H	RTL SHOP	27500
12.188	H	RTL Television	27500
12.188	H	RTL2	27500
12.188	H	Super RTL	27500
12.188	H	Super RTL CH	27500
12.188	H	VOX	27500
12.188	H	VOX CH	27500
12.207	V	A LA CARTE 12	27500
12.207	V	FRANCE 5	27500
12.207	V	FRANCE Ô	27500
12.207	V	OLTV	27500
12.207	V	OM'TV	27500
12.207	V	PLANETE THALASSA	27500
12.207	V	PLAYBOY TV	27500
12.207	V	TV BREIZH	27500
12.207	V	ADO	27500
12.207	V	ALOUETTE	27500
12.207	V	BBC ARABIC	27500
12.207	V	BBCW SERVICE	27500
12.207	V	BEUR FM	27500
12.207	V	BFM	27500
12.207	V	CANALSAT RADIOS	27500
12.207	V	CHERIE FM	27500
12.207	V	CONTACT FM	27500
12.207	V	COULEUR 3	27500
12.207	V	EUROPE 1	27500
12.207	V	FIP	27500
12.207	V	FRANCE BLEU IDF	27500
12.207	V	France CULTURE	27500
12.207	V	France INFO	27500
12.207	V	France INTER	27500
12.207	V	FRANCE MUSIQUE	27500
12.207	V	FUN RADIO	27500
12.207	V	JAZZ RADIO	27500
12.207	V	LE MOUV	27500
12.207	V	MC DOUALIYA	27500
12.207	V	MEDI 1	27500
12.207	V	NOSTALGIE	27500
12.207	V	NRJ	27500
12.207	V	OUI FM	27500
12.207	V	PARENTHESE RADIO	27500
12.207	V	RADIO 1	27500
12.207	V	RADIO 2	27500
12.207	V	RADIO 3	27500
12.207	V	RADIO ALPHA	27500
12.207	V	RADIO CLASSIQUE	27500
12.207	V	RADIO COURTOISIE	27500
12.207	V	RADIO FG	27500
12.207	V	RADIO FRANCE	27500
12.207	V	RADIO INT	27500
12.207	V	RADIO INT 2	27500
12.207	V	RADIO LATINA	27500
12.207	V	RADIO NOTRE-DAME	27500
12.207	V	RADIO NOVA	27500
12.207	V	RADIOS 2	27500
12.207	V	RADIOS 3	27500
12.207	V	RCJ / SHALOM	27500
12.207	V	RF	27500
12.207	V	RFI INT	27500
12.207	V	RFI MULTILINGUE	27500
12.207	V	RFM	27500
12.207	V	RIRE & CHANSONS	27500
12.207	V	RMC	27500
12.207	V	RTL	27500
12.207	V	RTL 2	27500
12.207	V	SKYROCK	27500
12.207	V	SUD RADIO	27500
12.207	V	TSF	27500
12.207	V	VIBRATION	27500
12.207	V	VIRGIN RADIO	27500
12.207	V	VOLTAGE	27500
12.207	V	WRN	27500
12.227	H	EuroNews	27500
12.227	H	Eurosport	27500
12.227	H	HSE24 Digital	27500
12.227	H	MTV AUSTRIA	27500
12.227	H	NICK AUSTRIA	27500
12.227	H	RTL Austria	27500
12.227	H	RTL2 Austria	27500
12.227	H	Super RTL A	27500
12.227	H	VOX Austria	27500
12.246	V	.6live	27500
12.246	V	2255live	27500
12.246	V	666 Girls.TV	27500
12.246	V	A1 Teleshop	27500
12.246	V	AbsolutSexy.TV	27500
12.246	V	ACHTUNG Singles.TV	27500
12.246	V	AllesfürsHandy	27500
12.246	V	Amore TV	27500
12.246	V	Beate Uhse Sexy Sat	27500
12.246	V	Blitzkontakt.TV	27500
12.246	V	Dateline	27500
12.246	V	DELUXE MUSIC	27500
12.246	V	DIE NEUE ZEIT TV	27500
12.246	V	DMAX	27500
12.246	V	DrDish Television	27500
12.246	V	EroticDome	27500
12.246	V	Franken SAT	27500
12.246	V	Friends TV	27500
12.246	V	Gebrauchtwagen TV	27500
12.246	V	Gratis Hot TV	27500
12.246	V	Herzschlag69	27500
12.246	V	Hot Girls TV	27500
12.246	V	Kanal-XXX.TV	27500
12.246	V	Liebesglück.TV	27500
12.246	V	Liebestraum.TV	27500
12.246	V	LokalSAT	27500
12.246	V	maennerwelt.tv	27500
12.246	V	Mallorca.TV	27500
12.246	V	Musicmax	27500
12.246	V	münchen.tv/RFO	27500
12.246	V	ONTV Regional	27500
12.246	V	Partnersuche.TV	27500
12.246	V	Po6	27500
12.246	V	Pro Erotik TV	27500
12.246	V	ReiseSchnäppchen.TV	27500
12.246	V	Ringtone TV	27500
12.246	V	SAT Erotiktreff.TV	27500
12.246	V	SexyGirls.TV	27500
12.246	V	tele6.tv	27500
12.246	V	tirol tv	27500
12.246	V	Top Girl Sex TV	27500
12.246	V	Traumkontakt.tv	27500
12.246	V	TVM/WWTV	27500
12.246	V	Venusclub.TV	27500
12.246	V	Zack Erotik TV	27500
12.246	V	DELUXE LOUNGE	27500
12.246	V	DELUXE RADIO	27500
12.246	V	TEDDY	27500
12.265	H	BR-alpha	27500
12.265	H	SR Fernsehen	27500
12.265	H	1LIVE	27500
12.265	H	1LIVE diggi	27500
12.265	H	Antenne Brandenburg	27500
12.265	H	B5 aktuell	27500
12.265	H	B5 plus	27500
12.265	H	Bayern 1	27500
12.265	H	Bayern 2	27500
12.265	H	BAYERN 3	27500
12.265	H	BAYERN 4 KLASSIK	27500
12.265	H	BAYERN plus	27500
12.265	H	BR Verkehr	27500
12.265	H	Bremen Eins	27500
12.265	H	Bremen Vier	27500
12.265	H	DASDING	27500
12.265	H	DW 1	27500
12.265	H	DW 4	27500
12.265	H	Fritz	27500
12.265	H	hr iNFO	27500
12.265	H	hr iNFO +	27500
12.265	H	hr1	27500
12.265	H	hr2	27500
12.265	H	hr3	27500
12.265	H	hr4	27500
12.265	H	Inforadio	27500
12.265	H	JUMP	27500
12.265	H	Kulturradio	27500
12.265	H	MDR FIGARO	27500
12.265	H	MDR Info	27500
12.265	H	MDR SPUTNIK	27500
12.265	H	MDR1 SA-ANHALT	27500
12.265	H	MDR1 SACHSEN	27500
12.265	H	MDR1 THÜRINGEN	27500
12.265	H	N-JOY	27500
12.265	H	NDR 1 Nieders.	27500
12.265	H	NDR 1 Radio MV	27500
12.265	H	NDR 2	27500
12.265	H	NDR 90,3	27500
12.265	H	NDR Info	27500
12.265	H	NDR Info Spez.	27500
12.265	H	NDR Kultur	27500
12.265	H	NDR1WelleNord	27500
12.265	H	Nordwestradio	27500
12.265	H	on3radio	27500
12.265	H	radioBERLIN 88,8	27500
12.265	H	radioeins	27500
12.265	H	radiomultikulti	27500
12.265	H	SR1 Europawelle	27500
12.265	H	SR2 KulturRadio	27500
12.265	H	SR3 Saarlandwelle	27500
12.265	H	SWR 1 BW	27500
12.265	H	SWR 1 RP	27500
12.265	H	SWR 2	27500
12.265	H	SWR 3	27500
12.265	H	SWR 4 BW	27500
12.265	H	SWR 4 RP	27500
12.265	H	SWR cont.ra	27500
12.265	H	WDR 2	27500
12.265	H	WDR 2 Klassik	27500
12.265	H	WDR 3	27500
12.265	H	WDR 4	27500
12.265	H	WDR 5	27500
12.265	H	WDR Event	27500
12.265	H	WDR Funkhaus Europa	27500
12.265	H	YOU FM	27500
12.285	V	XXL	27500
12.285	V	AB MOTEURS	27500
12.285	V	AB1	27500
12.285	V	ACTION	27500
12.285	V	ANIMAUX	27500
12.285	V	CINE FX	27500
12.285	V	CINE POLAR	27500
12.285	V	ENCYCLOPEDIA	27500
12.285	V	ESCALES	27500
12.285	V	MANGAS	27500
12.285	V	RTL9	27500
12.285	V	toute L'HISTOIRE	27500
12.285	V	LCP	27500
12.285	V	NT1	27500
●12.324	V	MOSAIQUE C+	27500
12.324	V	ONZEO	27500
12.324	V	PRIVATE SPICE	27500
●12.324	V	YACHT AND SAIL	27500
12.324	V	CASH TV	27500
12.324	V	MOSA 2	27500
12.324	V	MOSA 3	27500
12.324	V	MOSA 4	27500
12.324	V	MOSA 5	27500
●12.324	V	MOSAIQUE	27500
12.324	V	CDN12	27500
12.324	V	{Empty}	27500
12.344	H	Animal Planet	27500
12.344	H	Cartoon/TCM	27500
12.344	H	Discovery	27500
12.344	H	DORCEL TV	27500
12.344	H	EUROSPORT	27500
12.344	H	Hallmark	27500
12.344	H	RTL4	27500
12.344	H	RTL5	27500
12.344	H	RTL7	27500
12.344	H	RTL8	27500
12.344	H	TV Oranje	27500
●12.344	H	RTL 1440	27500
12.344	H	RTL RADIO	27500
12.344	H	RVi1 (VRT)	27500
12.344	H	RVi2 (VRT)	27500
12.363	V	DT1	27500
12.363	V	DT15	27500
12.363	V	DT16	27500
12.363	V	DT18	27500
12.363	V	DT4	27500
12.363	V	DT5	27500
12.363	V	DT6	27500
12.363	V	DT8	27500
12.363	V	DT9	27500
12.363	V	CE SOIR	27500
12.363	V	DT13	27500
12.363	V	DT2	27500
12.363	V	DT20	27500
●12.363	V	EUROSPORT HD	27500
12.363	V	{Empty}	27500
12.402	V	13EME RUE	27500
12.402	V	C CINEMA CLASSIC	27500
12.402	V	C CINEMA FAMIZ	27500
12.402	V	COMEDIE !	27500
12.402	V	EQUIDIA INFO	27500
12.402	V	JETIX	27500
12.402	V	L'EQUIPE TV	27500
12.402	V	NATIONAL GEO	27500
12.402	V	NRJ 12	27500
12.402	V	PLANETE NO LIMIT	27500
12.402	V	REAL TIME	27500
12.422	H	EinsFestival HD	27500
12.422	H	Radio Bremen TV	27500
12.422	H	WDR Bielefeld	27500
12.422	H	WDR Dortmund	27500
12.422	H	WDR Düsseldorf	27500
12.422	H	WDR Essen	27500
12.422	H	WDR Münster	27500
12.422	H	WDR Siegen	27500
12.422	H	WDR Test A	27500
12.422	H	MEHRKANALTEST	27500
12.441	V	ANIMAX (a/P)	27500
12.441	V	Biography Channel	27500
12.441	V	Bundesliga HOME	27500
12.441	V	Cartoon Network (a/P	27500
12.441	V	EuroSport 2 (a/P)	27500
12.441	V	FOX	27500
12.441	V	History Channel	27500
12.441	V	Kinowelt	27500
12.441	V	National Geographic	27500
12.441	V	RTL Living	27500
12.441	V	Bundesliga 1	27500
12.441	V	Bundesliga 2	27500
12.441	V	Bundesliga 3	27500
12.441	V	Bundesliga 4	27500
12.441	V	Bundesliga 7	27500
12.441	V	Bundesliga 8	27500
12.441	V	Bundesliga INFO	27500
12.441	V	Playboy TV (a)	27500
12.461	H	1-2-3.tv	27500
12.461	H	3A TV	27500
12.461	H	ANIXE SD	27500
12.461	H	DAS VIERTE	27500
12.461	H	Daystar Television N	27500
12.461	H	Deutsches Gesundheit	27500
12.461	H	ERF	27500
12.461	H	GIGA	27500
12.461	H	imusic TV	27500
12.461	H	JAMBA! TV	27500
12.461	H	tv.gusto	27500
12.461	H	domradio	27500
12.461	H	HOPE Channel Radio	27500
12.461	H	Klassik Radio	27500
12.461	H	oldiestar*	27500
12.480	V	AstroTV	27500
12.480	V	DAF-AnlegerTV	27500
12.480	V	DSF	27500
12.480	V	equi8	27500
12.480	V	glück TV	27500
12.480	V	HSE24	27500
12.480	V	meinTVshop	27500
12.480	V	Sonnenklar TV	27500
12.480	V	SpiritON.TV	27500
12.480	V	TELE 5	27500
12.480	V	XXHOME	27500
12.522	V	CANAL HD TEST 3	22000
●12.522	V	FRANCE 2 HD	22000
12.522	V	NATIONAL GEO HD	22000
●12.581	V	13EME RUE HD	22000
12.640	V	BLOOMBERG TV	22000
12.640	V	DISNEY CHANNEL+1	22000
12.640	V	DISNEY CINEMAGIC	22000
12.640	V	DISNEY MAGIC+1	22000
12.640	V	E! ENTERTAINMENT	22000
12.640	V	GULLI	22000
12.640	V	PLAYHOUSE DISNEY	22000
12.640	V	TEVA	22000
12.640	V	C CINEMA 16/9	22000
12.663	H	AUSTRIA 9 TV	22000
12.663	H	NASN	22000
12.663	H	NASN (P)	22000
12.663	H	.Ab18	22000
12.663	H	AKTIV DIREKT TV	22000
12.663	H	ALL FUN TV	22000
12.663	H	Bundesliga 9	22000
12.663	H	GoTV	22000
12.663	H	Heiße Nummer	22000
12.663	H	INNSAT.TV	22000
12.663	H	Intim TV	22000
12.663	H	Kuren und Wellness	22000
12.663	H	Kurven-Reich	22000
12.663	H	Liebeskanal	22000
12.663	H	Piep Show	22000
12.663	H	Spass im TV	22000
12.663	H	Telesünde	22000
12.663	H	TW1	22000
12.663	H	Uschi TV	22000
12.663	H	Uschi´s Schwestern	22000
12.663	H	Visit-X.TV	22000
12.663	H	VivaGina	22000
12.663	H	Weiber TV	22000
12.663	H	FM4	22000
12.663	H	OE1	22000
12.663	H	OE1 DD	22000
12.663	H	OE2 B	22000
12.663	H	OE2 K	22000
12.663	H	OE2 N	22000
12.663	H	OE2 O	22000
12.663	H	OE2 S	22000
12.663	H	OE2 St	22000
12.663	H	OE2 T	22000
12.663	H	OE2 V	22000
12.663	H	OE2 W	22000
12.663	H	OE3	22000
12.663	H	RADIO MARIA	22000
12.663	H	Ö1 International	22000
12.692	H	ORF2	22000
12.692	H	ORF2 N	22000
12.692	H	ORF2 O	22000
12.692	H	ORF2 St	22000
12.692	H	ORF2 T	22000
12.692	H	ORF2 V	22000
12.692	H	ATV+	22000
12.692	H	Bundesliga 5	22000
12.692	H	Bundesliga 6	22000
12.692	H	ORF1	22000
12.692	H	ORF2 B	22000
12.692	H	ORF2 K	22000
12.692	H	ORF2 S	22000
12.692	H	ORF2 W	22000
12.692	H	HITRADIO OE3	22000
12.692	H	ORF2E	22000
11.009	V	2 Klassik	
11.009	V	Bremen 4	
11.009	V	Vera	
11.009	V	WDR Europa WDR5	
11.053	H	EinsLive	
11.053	H	WDR 2	
11.053	H	WDR 3	
11.053	H	WDR 4	
11.053	H	WDR 5	
11.068	V	HR 1	
11.068	V	HR 2	
11.068	V	HR 3	
11.068	V	HR 4	
11.068	V	HR Info	
11.068	V	HR Info +	
11.068	V	You FM	
11.112	H	Jump	
11.112	H	MDR Figaro	
11.112	H	MDR Info	
11.112	H	MDR Sputnik	
11.141	H	Bayern 3	
11.141	H	Bayern 4	
11.141	H	Bayern 5 Plus	
11.141	H	Bayern1 Oberbayern	
11.141	H	Bayern2 Radio	
11.186	V	Cont.RA	
11.186	V	DasDing	
11.186	V	SWR 1 Baden Wurttemb	
11.186	V	SWR 1 Rheinland Pfal	
11.186	V	SWR 2 Baden Wurttemb	
11.186	V	SWR 2 RP	
11.186	V	SWR 3	
11.186	V	SWR 4 BW Stuttgart	
11.186	V	SWR 4 RP Kaisersla	
11.494	H	ARD-Sternpunkt 1 (Su	
11.494	H	ARD-Sternpunkt 2 (Su	
11.494	H	Bremen 1	
11.494	H	DeutschlandRadio Kul	
11.494	H	DLF	
11.494	H	Nordwest	
●11.509	V	Al Jazeera English	22000
11.509	V	Arirang TV	22000
11.509	V	BFM TV	22000
11.509	V	Cubavision Internaci	22000
11.509	V	Demain	22000
11.509	V	Extremadura TV	22000
●11.509	V	NHK World TV	22000
11.509	V	NRJ Paris	22000
11.509	V	Popular TV	22000
11.509	V	RedeRecord	22000
11.538	V	Aragon TV	22000
●11.538	V	CCTV F	22000
11.538	V	Direct 8	22000
11.538	V	EWTN Europe	22000
11.538	V	France 24 (en França	22000
11.538	V	France 24 (in Englis	22000
11.538	V	KTO	22000
11.538	V	NRJ Hits	22000
11.538	V	Russia Today	22000
11.538	V	Telesur	22000
11.538	V	Radio Aragon	22000
11.568	V	2M Maroc	22000
11.568	V	Al Jazeera	22000
11.568	V	Al Masriya	22000
11.568	V	ARTE	22000
11.568	V	CANAL ALGERIE	22000
11.568	V	RAI 1	22000
11.568	V	RTPI	22000
11.568	V	TRT International	22000
11.568	V	TV5MONDE	22000
11.568	V	TV7	22000
11.568	V	TVEi	22000
11.582	H	N-Joy	
11.582	H	NDR 2	
11.582	H	NDR Info	
11.582	H	NDR Info Spezial (su	
11.582	H	NDR Info Spezial (su	
11.582	H	NDR Kultur	
11.597	V	BBC World	22000
11.597	V	Best of shopping	22000
11.597	V	CNBC Europe	22000
11.597	V	DW-TV	22000
11.597	V	M6 BOUTIQUE LA CH	22000
11.597	V	Sky News	22000
11.597	V	TV5MONDE EUROPE	22000
12.545	H	kabel eins classics	22000
12.545	H	Sat.1 Comedy	22000
12.545	H	9Live	22000
12.545	H	kabel eins	22000
12.545	H	N24	22000
12.545	H	ProSieben	22000
12.545	H	SAT.1	22000
12.611	V	CANAL+	22000
●12.611	V	M6 MUSIC BLACK	22000
●12.611	V	M6 MUSIC ROCK	22000
●12.611	V	MA CHAINE SPORT	22000
●12.611	V	ODYSSEE	22000
●12.611	V	PLANETE JUSTICE	22000
●12.611	V	VIVOLTA	22000
12.633	H	123Damenwahl	22000
12.633	H	Camshots TV	22000
12.633	H	Das Erotische TV	22000
12.633	H	Date Line	22000
12.633	H	Deutsche Girls 2	22000
12.633	H	dhd24 plus	22000
12.633	H	dhd24.tv	22000
12.633	H	Dreamgirls.TV	22000
12.633	H	Erotik 24	22000
12.633	H	Erotik Sat	22000
12.633	H	Fotohandy	22000
12.633	H	Gratis Hot TV NEU	22000
12.633	H	jeden Tag x	22000
12.633	H	Juwelo TV	22000
12.633	H	K-TV	22000
12.633	H	Kamasutra TV	22000
12.633	H	Lustkanal.TV	22000
12.633	H	Manneskraft TV NEU	22000
12.633	H	Mobile Sex	22000
12.633	H	paradise	22000
12.633	H	rhein main tv	22000
12.633	H	Rundum Sex TV	22000
12.633	H	SexySat	22000
12.633	H	Supreme Master TV	22000
12.633	H	TIMM	22000
12.633	H	Top Girl Sex TV NE	22000
12.633	H	Traumgirls.TV	22000
12.633	H	ffn Comedy	22000
12.633	H	ffn digital	22000
12.633	H	harmony.fm	22000
12.633	H	HIT RADIO FFH	22000
12.633	H	Inselradio	22000
12.633	H	Paloma	22000
12.633	H	PEPPERMINT fm	22000
12.633	H	planet radio	22000
12.633	H	Radio Gloria	22000
12.633	H	Radio Regenbogen	22000
12.633	H	radio top40	22000
12.633	H	WRN Deutsch	22000
12.722	H	2BE	22000
12.722	H	een	22000
12.722	H	JIM	22000
12.722	H	KANAAL Z	22000
12.722	H	Ketnet/Canvas	22000
12.722	H	VIJFtv	22000
12.722	H	Vitaya	22000
12.722	H	VT4	22000
12.722	H	VTM	22000
12.722	H	Man-X	22000
12.722	H	4FM	22000
12.722	H	Donna	22000
12.722	H	Klara	22000
12.722	H	Q-music	22000
12.722	H	Radio 1	22000
12.722	H	Radio 2	22000
12.722	H	Studio Brussel	22000
12.729	V	FR3 CAEN	22000
12.729	V	FR3 DIJON	22000
12.729	V	FR3 GRENOBLE	22000
12.729	V	FR3 LILLE	22000
12.729	V	FR3 MONTPELLIER	22000
12.729	V	FR3 ORLEANS	22000
12.729	V	FR3 POITIERS	22000
12.729	V	FR3 REIMS	22000
12.729	V	FR3 STRASBOURG	22000
12.729	V	FR3 VIA STELLA	22000

AST1KRKU

Freq GHz	Pol	Channel Name	Symbol rate
10.744	H	arte	22000
10.744	H	EinsExtra	22000
10.744	H	EinsFestival	22000
10.744	H	EinsPlus	22000
10.744	H	Phoenix	22000
10.773	H	TVP HD - test	22000
10.773	H	Belsat TV	22000
10.773	H	TV Polonia	22000
10.773	H	TV TRWAM	22000
10.773	H	TVP Historia	22000
10.773	H	TVP Kultura	22000
10.773	H	Radio Maryja test	22000
10.788	V	ANIMAX	22000
10.788	V	BOOMERANG	22000
10.788	V	CARTOON NET.	22000
●10.788	V	LA 2	22000
10.788	V	TAQUILLA 1	22000
10.788	V	TAQUILLA 2	22000
10.788	V	TAQUILLA 3	22000
10.788	V	TAQUILLA 4	22000
10.788	V	TAQUILLA XY	22000
●10.788	V	TELEFE INT	22000

TV Digital
Radio Digital
TV Digital Crypt
Radio Digital Crypt
TV High Definition
TV High Definition Crypt

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Freq GHz	Pol	Channel Name	Symbol rate
●10.788	V	CHAMPIONS 4	22000
●10.788	V	CHAMPIONS 5	22000
10.788	V	TAQUILLA 10	22000
10.818	V	AXN	22000
10.818	V	C+ ACCIÓN...30	22000
10.818	V	C+ COMEDIA...30	22000
10.818	V	CANAL COCINA	22000
10.818	V	CARACOL TV	22000
10.818	V	DCINE ESPAÑOL	22000
10.818	V	ECUAVISA INT	22000
10.818	V	FOX	22000
10.818	V	SCI FI	22000
10.818	V	TVE 1	22000
10.818	V	TVV INT.	22000
10.832	H	ORF 1 HD	22000
10.832	H	Bibel TV	22000
10.832	H	RTBF SAT	22000
10.832	H	CFN/RFC	22000
10.832	H	Radio Horeb	22000
10.832	H	Radio neue Hoffnung	22000
10.832	H	RDC	22000
10.832	H	RTBF International	22000
10.847	V	ABONO FÚTBOL+	22000
10.847	V	COMPRA SMS	22000
10.847	V	FERIA PILAR	22000
10.847	V	GUÍA DIGITAL+	22000
10.847	V	IBERDROLA	22000
10.847	V	LIGA 07/08	22000
10.847	V	MÚSICA DIGITAL	22000
10.847	V	PLAYIN'TV	22000
●10.847	V	PORTADA	22000
10.847	V	RAD. LATINAS	22000
10.847	V	RADIOS	22000
10.847	V	TAQUILLA	22000
10.847	V	TEST_CSD2	22000
10.847	V	TEST_CSD4	22000
10.847	V	TEST_CSD5	22000
10.847	V	{Empty}	22000
10.847	V	RADIOS ESP	22000
10.862	H	TVP1	22000
10.862	H	INT6	22000
10.862	H	TVP Sport	22000
10.862	H	TVP2	22000
10.862	H	TVP Info	22000
10.877	V	40 LATINO	22000
10.877	V	BABYFIRST	22000
10.877	V	C+ DEPORTES	22000
10.877	V	C+ FÚTBOL	22000
●10.877	V	CALLE 13	22000
10.877	V	CANAL+...30	22000
10.877	V	FOX NEWS	22000
10.877	V	GOLF+	22000
10.877	V	NAT GEOGRAPH	22000
10.877	V	PLAYBOY TV	22000
10.877	V	CHAMPIONS 3	22000
10.921	H	AXN	22000
10.921	H	bebe tv	22000
10.921	H	Blue Hustler	22000
10.921	H	Boomerang	22000
10.921	H	Cartoon Network/TCM	22000
10.921	H	MGM	22000
10.921	H	STV1	22000
10.921	H	TA3	22000
10.921	H	Viasat 3	22000
10.921	H	Viasat Explorer	22000
10.921	H	Viasat History	22000
10.921	H	Travel	22000
10.979	V	24 HORAS	22000
10.979	V	CLAN TVE	22000
10.979	V	CLÁSICO	22000
10.979	V	CUATRO	22000
10.979	V	EUROSPORT	22000
10.979	V	G. HERMANO	22000
10.979	V	HISTORIA	22000
●10.979	V	HOGARUTIL	22000
10.979	V	HOLLYWOOD	22000
10.979	V	TELENOVELAS	22000
10.979	V	TNT	22000
●10.979	V	CHAMPIONS 2	22000
10.979	V	TV CANARIA	22000
11.038	V	40 TV	22000
11.038	V	CANAL+	22000
11.038	V	CANAL+ 2	22000
11.038	V	DISCOVERY	22000
11.038	V	DISNEY CH.	22000
11.038	V	DOCU TVE	22000
●11.038	V	PAR. COMEDY	22000
11.038	V	SPORTMANÍA	22000
●11.038	V	TCM MODERNO	22000
11.038	V	TELEDEPORTE	22000
11.038	V	CHAMPIONS 1	22000
11.038	V	CHAMPIONS 2	22000
11.097	V	BARÇA TV	22000
11.097	V	C+ EVENTOS	22000
●11.097	V	LIGA 08/09	22000
11.097	V	TAQUILLA 5	22000
11.097	V	TAQUILLA 6	22000
11.097	V	TAQUILLA 7	22000
11.097	V	TAQUILLA X	22000
11.097	V	TAQUILLA XX	22000
●11.097	V	EHS	22000
11.097	V	TAQUILLA 8	22000
11.097	V	TAQUILLA 9	22000
11.097	V	TESTP	22000
●11.156	V	BABYFIRST	22000
11.156	V	BLOOMBERG	22000
●11.156	V	CANAL ODISEA	22000
11.156	V	CAZA Y PESCA	22000
11.156	V	COSMOPOLITAN	22000
●11.156	V	HISTORIA	22000
11.156	V	LA 2	22000
11.156	V	MÉTEO	22000
11.156	V	PEOPLE+ARTS	22000
11.156	V	VIAJAR	22000
●11.156	V	CHAMPIONS 1	22000
●11.156	V	CHAMPIONS 2	22000
●11.156	V	CHAMPIONS 3	22000
●11.156	V	CHAMPIONS 4	22000
11.156	V	EHS	22000
11.156	V	PAR. COMEDY	22000
11.318	V	C+ ACCIÓN	22000
11.318	V	C+ COMEDIA	22000
11.318	V	C+ DCINE	22000
11.318	V	CARTOON N +1	22000
11.318	V	DISNEY CH. +1	22000
11.318	V	JETIX	22000
11.318	V	NICK +1	22000
11.318	V	PLAYHOUSE	22000
11.318	V	SONY TV	22000
●11.318	V	TELEFE INT	22000
●11.318	V	CHAMPIONS 1	22000
●11.479	V	NRJ HITS	22000
11.479	V	BABY FIRST	22000
11.479	V	CANAL EVENEMENT	22000
11.479	V	PLAYIN'TV	22000
11.479	V	TELEREALITE	22000
●11.479	V	{Empty}	22000
11.479	V	PLAYIN'TV	22000
11.479	V	PLAYIN'Tvi	22000
11.671	H	Cinemax	22000
11.671	H	Film+	22000
11.671	H	HirTV	22000
11.671	H	m1	22000
11.671	H	MTV Hungary	22000
11.671	H	RTL Klub	22000
●11.671	H	Spektrum	22000
11.671	H	Sport 1 CZE	22000
11.671	H	Sport Klub	22000
11.671	H	TV2	22000
●11.671	H	Viva TV	22000
●11.671	H	Budapest TV	22000
●11.671	H	Bartok Radio - MR3	22000
●11.671	H	Kossuth Radio - MR1	22000
●11.671	H	Petofi Radio - MR2	22000
11.685	V	C. ESTRELLAS	22000
11.685	V	CNN+	22000
11.685	V	PRO TV INT	22000
●11.685	V	R. MADRID TV	22000
11.685	V	TCM CLÁSICO	22000
11.685	V	ANDALUCÍA TV	22000
11.685	V	CANAL CLUB	22000
●11.685	V	CANAL+ HD	22000
11.685	V	EUSKADI TV	22000
11.685	V	TM SAT/LAOTRA	22000
11.685	V	TV GALICIA	22000

Freq GHz	Pol	Channel Name	Symbol rate
11.685	V	TVC INT.	22000
11.685	V	RAD. ROMANIA	22000
12.699	V	FR3 AMIENS	22000
12.699	V	FR3 BESANCON	22000
12.699	V	FR3 BORDEAUX	22000
12.699	V	FR3 CLERMONT FD	22000
12.699	V	FR3 LIMOGES	22000
12.699	V	FR3 LYON	22000
12.699	V	FR3 MARSEILLE	22000
12.699	V	FR3 NANCY	22000
12.699	V	FR3 PARIS	22000
12.699	V	FR3 RENNES	22000
12.699	V	FR3 ROUEN	22000
12.699	V	FR3 TOULOUSE	22000
12.729	V	FR3 NANTES	22000
12.729	V	FR3 NICE	22000
●11.171	V	BABYFIRST	22000
11.171	V	BLOOMBERG	22000
●11.171	V	CANAL ODISEA	22000
11.171	V	CAZA Y PESCA	22000
11.171	V	COSMOPOLITAN	22000
●11.171	V	HISTORIA	22000
11.171	V	LA 2	22000
11.171	V	MÉTEO	22000
11.171	V	PEOPLE+ARTS	22000
11.171	V	VIAJAR	22000
●11.171	V	CHAMPIONS 1	22000
●11.171	V	CHAMPIONS 2	22000
●11.171	V	CHAMPIONS 3	22000
●11.171	V	CHAMPIONS 4	22000
11.171	V	EHS	22000
11.171	V	PAR. COMEDY	22000
11.362	H	arte HD	22000
11.362	H	Simul HD	22000
11.362	H	Simul SD	22000

EUTELSAT W6

21.5 East

Freq GHz	Pol	Channel Name	Symbol rate
10.972	V	Service 2	2532
10.978	V	NAHRAIN TV	2170
11.345	H	ALPHA	28780
11.345	H	ALPHA RADIO	28780
11.490	V	SALAHADDIN TV	2170
11.527	V	AL RAI 1B	2857
11.586	V	CFI PECO PRO	6511
12.637	V	AL AHD	2532

Europe

ASTRA 1E,3A

23.5 East

Freq GHz	Pol	Channel Name	Symbol rate
10.862	H	Ocko TV	22000
11.836	H	INT_TV	29900
●11.836	H	SMD 01	29900
●11.915	H	E!Entertainment	27500
11.915	H	RNN7	27500
11.915	H	L1MBURG	27500
11.915	H	Omroep Brabant Telev	27500
11.915	H	Omroep Zeeland Telev	27500
11.915	H	Omrop Fryslan Televi	27500
11.915	H	TV Drenthe	27500
11.915	H	TV Gelderland	27500
11.915	H	TV Noord	27500
11.915	H	TV Noord-Holland	27500
11.915	H	TV Oost	27500
11.915	H	TV Rijnmond	27500
11.915	H	L1MBURG Radio	27500
11.915	H	Omroep Brabant Radio	27500
11.915	H	Omroep Zeeland Radio	27500
11.915	H	Omrop Fryslan Radio	27500
11.915	H	Radio Drenthe	27500
11.915	H	Radio Gelderland	27500
11.915	H	Radio Noord	27500
11.915	H	Radio Noord-Holland	27500
11.915	H	Radio Oost	27500
11.915	H	Radio Rijnmond	27500
11.993	H	FILMBOX	27500
11.993	H	FILMBOX EXTRA	27500
11.993	H	JimJam	27500
11.993	H	Leo TV	27500
11.993	H	Minimax	27500
11.993	H	NOSTALGIA	27500
11.993	H	Nova	27500
11.993	H	Nova Cinema	27500
11.993	H	Spektrum	27500
11.993	H	Viasat Explorer / Sp	27500
11.993	H	Viasat History	27500
11.993	H	Public TV	27500
●12.031	H	Not in use	27500
12.031	H	ASTRA HD Demo	27500
10.758	V	EXQI Culture	22000
10.758	V	EXQI sport	22000
10.758	V	HD1	22000
10.758	V	HD2/5	22000
10.842	V	BEL-59	13333
11.739	V	/Geschiedenis TV	27500
11.739	V	Consumenten TV	27500
11.739	V	Discovery Science	27500
11.739	V	Discovery Travel	27500
11.739	V	Eredivisielive 2	27500
11.739	V	Holland Doc	27500
11.739	V	Humor/Nost.Net	27500
11.739	V	MGM	27500
11.739	V	Nederland 4	27500
11.739	V	NGC Wild	27500
11.739	V	Playboy TV	27500
11.739	V	Vitaliteit	27500
11.739	V	100%NL	27500
11.778	V	BravaHDTV	27500
11.778	V	Discovery HD	27500
11.778	V	NGC HD	27500
11.778	V	NL1 HD	27500
11.778	V	VOOM HD	27500

AST03AKU

Freq GHz	Pol	Channel Name	Symbol rate
●10.803	H	STV 3	22000
●10.803	H	TEST	22000
●11.515	V	ANIXE SD	28500
11.515	H	Ch1 BT + KT	27500
11.515	H	Ch2 BPK	27500
11.515	H	Ch3 BR	27500
11.515	H	Ch4 MAZ	27500
11.515	V	Comedy Central	28500
11.515	V	Das Vierte	28500
●11.515	V	DELUXE MUSIC	28500
11.515	V	Eurosport	28500
11.515	V	n-tv	28500
11.515	V	RTL II	28500
11.515	V	RTL Television	28500
11.515	V	Super RTL	28500
●11.515	V	TIMM	28500
11.515	V	Viva	28500
11.515	V	VOX	28500
11.515	H	SAT1 HH/SH	27500
11.515	H	SAT1 National	27500
11.515	H	SAT1 NRW	27500
11.515	H	SAT1 NS/Bremen	27500
11.515	H	SAT1 RhlPf/Hessen	27500
11.515	H	Test BY	27500
11.515	V	1LIVE diggi	28500
11.515	V	MDR1 S-ANHALT	28500
11.515	V	MDR1 THÜRINGEN	28500
11.515	V	NDR 1 Radio MV	28500
11.515	V	NDR 2	28500
11.515	V	radioBERLIN 88,8	28500
11.515	V	SR1	28500
11.515	V	SR3	28500
11.515	V	SWR1 RP	28500
11.515	V	SWR2	28500
11.515	V	SWR3	28500
11.515	V	WDR 5	28500
11.555	H	9Live	28500

Freq GHz	Pol	Channel Name	Symbol rate
11.555	H	DSF	28500
11.555	H	HSE24	28500
11.555	H	kabel eins	28500
11.555	H	N24	28500
●11.555	H	OraiaTV (engl)	28500
11.555	H	ProSieben	28500
11.555	H	Sat. 1	28500
11.555	H	Tele 5	28500
11.555	H	B5 aktuell	28500
11.555	H	B5 plus	28500
●11.555	H	BAYERN plus	28500
11.555	H	BR Verkehr	28500
11.555	H	cont.ra	28500
11.555	H	DASDING	28500
11.555	H	DW 1	28500
11.555	H	DW 4	28500
11.555	H	hr iNFO	28500
11.555	H	hr iNFO +	28500
11.555	H	hr4	28500
11.555	H	InfoRadio	28500
11.555	H	kulturradio	28500
11.555	H	MDR FIGARO	28500
11.555	H	MDR JUMP	28500
11.555	H	MDR1 SACHSEN	28500
11.555	H	NDR 1 Niedersachsen	28500
11.555	H	NDR 1 Welle Nord	28500
11.555	H	NDR Info	28500
11.555	H	NDR Info Spezial	28500
11.555	H	on3radio	28500
11.555	H	radiomultikulti	28500
11.555	H	SR2	28500
11.555	H	SWR4 BW	28500
11.555	H	WDR 2 Klassik	28500
11.555	H	WDR Event	28500
11.555	H	WDR Funkhaus Europa	28500
11.555	H	YOU FM	28500
11.592	V	Cartoon Network	28500
11.592	V	Club TV	28500
11.592	V	Disney Playhouse	28500
11.592	V	Disney Toon + 1	28500
11.592	V	MTV Dance	28500
11.592	V	MTV Dance (engl)	28500
11.592	V	MTV Hits	28500
11.592	V	MTV Hits (engl)	28500
11.592	V	National Geo (engl)	28500
11.592	V	National Geographic	28500
11.592	V	Playboy TV	28500
11.592	V	Relax TV	28500
11.592	V	Sailing Channel	28500
11.592	V	Sailing Channel (eng	28500
11.592	V	SciFi (KD)	28500
11.592	V	Spiegel TV Digital	28500
●11.592	V	TCM Classic Movies (	28500
11.592	V	The Biography Channe	28500
11.592	V	Turner Classic Movie	28500
11.595	H	ATV Avrupa (türk)	28500
11.595	H	Canal 24 Horas	28500
11.595	H	ERT World (griech)	28500
11.595	H	Euro D (türk)	28500
11.595	H	Euro Star (türk)	28500
11.595	H	Kabel Digital Info	28500
11.595	H	Nashe Kino (rus)	28500
11.595	H	RTL Shop	28500
11.595	H	RTP Internacional	28500
11.595	H	RTR Planeta (rus)	28500
11.595	H	RTVi (rus)	28500
11.595	H	Tier TV	28500
11.595	H	TRTi (türk)	28500
11.595	H	TV Polonia (pol)	28500
11.595	H	TVEi (span)	28500
11.635	H	Astro TV	28500
11.635	H	Fashion TV	28500
11.635	H	Gute Laune TV	28500
11.635	H	History Channel	28500
11.635	H	Kinowelt TV	28500
11.635	H	Motors TV	28500
11.635	H	Planet	28500
11.635	V	redXclub 1	28500
11.635	V	redXclub 2	28500
11.635	V	redXclub Info	28500
11.635	V	Select Kino 1	28500
11.635	V	Select Kino 2	28500
11.635	V	Select Kino 3	28500
11.635	V	Select Kino 4	28500
11.635	V	Select Kino 5	28500
11.635	V	Select Kino 6	28500
11.635	V	Select Kino 7	28500
11.635	V	Select Kino Info	28500
11.635	H	sonnenklar.TV	28500
11.635	H	Trace.TV	28500
11.635	H	tv.gusto Premium	28500
11.635	H	Wetter Fernsehen	28500
11.635	H	60er & 70er Hits	28500
11.635	H	80er & 90er Hits	28500
11.635	H	Alternative	28500
11.635	H	Big Band/Swing	28500
11.635	H	Blues	28500
11.635	H	Brasil	28500
11.635	H	Chillout	28500
11.635	H	Classic Rock	28500
11.635	H	Country	28500
11.635	H	Dance	28500
11.635	H	Deutsche Hits	28500
11.635	H	Deutsche Schlager	28500
11.635	H	Deutscher Rock	28500
11.635	H	Euro Hits	28500
11.635	H	Heavy Metal	28500
11.635	H	Instrumentals	28500
11.635	H	Klassik Hits	28500
11.635	H	Klassischer Jazz	28500
11.635	H	Love Songs	28500
11.635	H	New Age	28500
11.635	H	Perfect Dinner Party	28500
11.635	H	Pop	28500
11.635	H	R & B Hip Hop	28500
11.635	H	Rap	28500
11.635	H	Reggae	28500
11.635	H	Rock Anthems	28500
11.635	H	Rock'n' Roll Oldies	28500
11.635	H	Spanischer Rock	28500
11.635	H	Symphonie	28500
11.635	H	UK Hits	28500
11.635	V	Bayern 2	28500
11.635	V	Bayern 4 Klassik	28500
11.635	V	Bremen Vier	28500
11.635	V	Fritz	28500
11.635	V	hr2	28500
11.635	V	hr3	28500
11.635	V	MDR SPUTNIK	28500
11.635	V	N-JOY	28500
11.635	V	NDR 90,3	28500
11.635	V	Nordwestradio	28500
11.635	V	radioeins	28500
11.635	V	SWR1 BW	28500
11.635	V	SWR4 RP	28500
11.635	V	WDR 2	28500
11.635	V	WDR 3	28500
11.635	V	WDR 4	28500
11.675	V	Al Jazeera Int (engl	28500
11.675	V	CH1 Russia (rus)	28500
11.675	V	EuroNews (itl)	28500
11.675	V	EuroNews (port)	28500
11.675	V	EuroNews (rus)	28500
11.675	V	EuroNews (span)	28500
11.675	V	Fox Turk (türk)	28500
11.675	V	France 2 (frz)	28500
11.675	V	France 3 (frz)	28500
11.675	V	France 5 (frz)	28500
11.675	V	iTVN (pol)	28500
11.675	V	Kanal 7 Int (türk)	28500
11.675	V	LiG TV (türk)	28500
11.675	V	Rai 1 (itl)	28500
11.675	V	Rai 2 (itl)	28500
11.675	V	Rai 3 (itl)	28500
11.675	V	Show Turk (türk)	28500
11.675	V	Turkmax (türk)	28500
●11.876	H	AXN	27500
11.876	H	CS Film /XXX/Detem	27500
11.876	H	DoQ	27500
11.876	H	Eurosport CZ	27500
11.876	H	Film+	27500
11.876	H	HBO	27500
●11.876	H	Nova Sport	27500
11.876	H	Sport 5	27500
12.525	V	CT 1	27500

Freq GHz	Pol	Channel Name	Symbol rate
12.525	V	CT 2	27500
●12.525	V	CT 4	27500
12.525	V	Ladte 11876 MHz	27500
12.525	V	Prima TV	27500
12.525	V	CT 24	27500
12.525	V	Noe TV	27500
12.525	V	BBC CZ	27500
12.525	V	CRo 1-Radiozurnal	27500
12.525	V	CRo 2+6/CRo 7	27500
12.525	V	CRo 2-Praha	27500
12.525	V	CRo 3-Vltava	27500
12.525	V	CRo D-dur	27500
12.525	V	CRo Leonardo	27500
12.525	V	CRo Radio Cesko	27500
●12.525	V	CRo Radio Wave	27500
12.525	V	CRo Region	27500
12.525	V	Proglas	27500
12.565	V	1-2-3.tv	27500
12.565	V	BBC World (engl)	27500
12.565	V	BibelTV	27500
12.565	V	Bloomberg	27500
12.565	V	EuroNews	27500
12.565	V	Eurosport 2	27500
12.565	H	MARKIZA	27500
12.565	H	MARKIZA TT	27500
12.565	V	MTV	27500
12.565	V	NICK	27500
12.565	H	STV1	27500
12.565	H	STV1 TT	27500
12.565	H	STV2	27500
12.565	H	STV2 TT	27500
12.565	V	TV 5 Monde (frz)	27500
12.565	H	TV JOJ	27500
12.565	H	TV JOJ_test	27500
12.565	H	TA3	27500
12.565	V	ERF	27500
12.565	V	Radio Horeb	27500
12.565	V	Radio-Test	27500
12.565	H	SM 1	27500
12.565	H	SM 2	27500
12.565	H	SM-CS	27500
12.565	V	Sunshine Live	27500
12.565	V	1LIVE	27500
12.565	V	Antenne Brandenburg	27500
12.565	V	Bayern 1	27500
12.565	V	Bayern 3	27500
12.565	V	Bremen Eins	27500
12.565	H	Devin	27500
12.565	H	EXPRES 7	27500
12.565	H	FUN-R	27500
12.565	V	hr1	27500
●12.565	H	Jemne melodie	27500
12.565	H	Lumen	27500
12.565	V	MDR INFO	27500
12.565	V	NDR Kultur	27500
12.565	H	OKEY	27500
12.565	H	Patria	27500
12.565	H	Radio - 7	27500
12.565	H	Radio Hey	27500
12.565	H	Radio_FM	27500
12.565	H	ReginaBA	27500
12.565	H	ReginaBB	27500
12.565	H	ReginaKE	27500
12.565	H	Slovakia	27500
12.565	H	Slovensko	27500
12.565	H	VIVA	27500
12.605	H	13th Street (KD)	28500
12.605	H	AXN	28500
12.605	H	AXN (engl)	28500
12.605	V	BBC Prime (engl)	28500
12.605	V	Boomerang	28500
12.605	V	Boomerang (engl)	28500
12.605	V	CNBC Europe (engl)	28500
12.605	H	CNN (engl)	28500
12.605	H	Der Schmuckkanal	28500
12.605	V	Detski Mir	28500
12.605	H	Disney Toon	28500
12.605	V	DMAX	28500
12.605	H	E! Entertainment	28500
12.605	H	ESPN Classic	28500
12.605	H	ESPN Classic (engl)	28500
12.605	V	Extreme Sports	28500
12.605	V	Extreme Sports (engl	28500
12.605	H	Giga Digital	28500
12.605	V	iMusic	28500
12.605	H	Jukebox	28500
12.605	V	Juwelo TV	28500
12.605	V	kabel eins classics	28500
12.605	H	NASN	28500
12.605	H	NASN (engl)	28500
12.605	V	Playhouse Disney (en	28500
12.605	H	QVC	28500
12.605	V	Rock TV	28500
12.605	V	Sat.1 Comedy	28500
12.605	H	Silverline	28500
12.605	V	Sky News (engl)	28500
12.605	V	Toon Disney (engl)	28500
12.605	H	VH1 Classic	28500
12.605	H	VH1 Classic (engl)	28500
12.605	H	Voyages Television	28500
12.605	H	Wein TV	28500
12.605	V	BBC World Service	28500
12.636	V	K-TV	2277
12.636	V	R.Gloria	2277
12.685	V	arte	27500
12.685	V	EinsExtra	27500
12.685	V	EinsFestival	27500
12.685	V	EinsPlus	27500
12.685	V	Phoenix	27500
●11.797	H	EUROSPORT HD	27500
●11.797	H	NOVA HD	27500
●11.797	H	JOJ PLUS	27500
●11.797	H	TV JOJ	27500
●11.797	H	Z 1	27500
●11.856	V	BravaHDTV	27500
●11.856	V	Discovery HD	27500
●11.856	V	een HD	27500
●11.856	V	NGC HD	27500

North Africa, Middle East

EUROBIRD 2

25.5 East

EUB002FB

Freq GHz	Pol	Channel Name	Symbol rate
11.012	H	BLOOMBERG	27500
11.012	H	CINEMA CITY	27500
11.012	H	FASHION TV	27500
11.012	H	MGM	27500
11.012	H	SERIES	27500
11.012	H	SPACE TOON	27500
11.012	H	SUPER MOVIES	27500
11.012	H	TVMAX	27500
11.012	H	TVMAX PROMO	27500
11.055	H	AL RIYADIYAH	27500
11.055	H	AMERICA PLUS	27500
●11.055	H	C-SPAN	27500
11.055	H	CNBC-US	27500
11.055	H	MUSIC NOW	27500
11.055	H	PTest	27500
11.055	H	SUPER COMEDY	27500
11.055	H	MARHABA	27500
11.055	H	BBC ARABIC	27500
11.055	H	BBC ENGLISH	27500
11.055	H	CLASSICAL	27500
11.055	H	COUNTRY OF BLUES	27500
11.055	H	DANCE	27500
11.055	H	GMA DZBB	27500
11.055	H	HITS	27500
11.055	H	JAZZ	27500
11.055	H	KHALIJYA'T	27500

Freq GHz	Pol	Channel Name	Symbol rate
11.055	H	LITE FM	27500
11.055	H	LOVE SONGS	27500
11.055	H	MONAWA'T	27500
11.055	H	MONTE CARLO	27500
11.055	H	MOTOWN	27500
11.055	H	POP	27500
11.055	H	R&B	27500
11.055	H	ROCK	27500
11.055	H	SUPER GOLD	27500
11.055	H	TARABIYA'T	27500
11.055	H	VIRGIN RADIO	27500
11.075	H	AL RIYADIYAH	27500
11.075	H	AMERICA PLUS	27500
●11.075	H	C-SPAN	27500
11.075	H	CNBC-US	27500
11.075	H	MUSIC NOW	27500
11.075	H	PTest	27500
11.075	H	SUPER COMEDY	27500
●11.075	V	Al Hayat 3	27500
●11.075	V	Al Hayat Series	27500
●11.075	V	Al Khalij	27500
●11.075	V	Al Lubnania	27500
●11.075	V	Al-Habeeb TV	27500
●11.075	V	Awal Tv	27500
●11.075	V	Family One	27500
11.075	H	MARHABA	27500
●11.075	V	Rawasy TV	27500
11.075	V	Talemiah	27500
●11.075	V	WATANI	27500
●11.075	V	WTV 128	27500
11.075	H	BBC ARABIC	27500
11.075	H	BBC ENGLISH	27500
11.075	H	CLASSICAL	27500
11.075	H	COUNTRY OF BLUES	27500
11.075	H	DANCE	27500
11.075	H	GMA DZBB	27500
11.075	H	HITS	27500
11.075	H	JAZZ	27500
11.075	H	KHALIJYA'T	27500
11.075	H	LITE FM	27500
11.075	H	LOVE SONGS	27500
11.075	H	MONAWA'T	27500
11.075	H	MONTE CARLO	27500
11.075	H	MOTOWN	27500
11.075	H	POP	27500
11.075	H	R&B	27500
11.075	H	ROCK	27500
11.075	H	SUPER GOLD	27500
11.075	H	TARABIYA'T	27500
11.075	H	VIRGIN RADIO	27500
●11.096	H	C-MUSIC	27500
●11.096	H	CINEMA CITY +1	27500
11.096	H	DISCOVERY CHANNEL	27500
11.096	H	DISCOVERY SCIENCE	27500
11.096	H	DISNEY PLAYHOUSE	27500
11.096	H	EURONEWS	27500
11.096	H	EXTREME SPORTS	27500
11.096	H	FUN CHANNEL	27500
11.096	H	NICKELODEON	27500
●11.096	H	TEST 1	27500
11.096	H	TRACE	27500
●11.096	H	XTRA MOVIES	27500
11.096	H	MTV ARABIA	27500
11.103	V	AL JAZEERA PATH 2	7200
●11.113	V	FLY 3	3255
11.123	V	DEFAULT	2220
11.148	V	AL JADEED	2960
11.152	V	GPTC	2220
●11.154	V	Manar Feed (TV 1)	2960
11.158	V	Arrai	2220
●11.165	V	WTV	2220
11.175	V	DEFAULT	2220
11.585	V	Discovery-Middle-Eas	27500
11.585	V	Discovery-Travel&Liv	27500
11.585	V	AL JADEED	27500
11.585	V	Atlas-TV	27500
●11.585	V	AWAL TV	27500
11.585	V	AWAL_TV	27500
11.585	V	DM-TV	27500
11.585	V	LBC-Europe	27500
11.585	V	NBN	27500
11.585	V	OTV	27500
11.585	V	Supreme-Master-TV	27500
11.604	H	AMERICA PLUS +2	27500
11.604	H	ANIMAL PLANET	27500
11.604	H	BBC PRIME	27500
11.604	H	BOOMERANG	27500
11.604	H	CARTOON NETWORK	27500
11.604	H	CINEMA CITY +1	27500
11.604	H	DISCOVERY CHANNEL	27500
11.604	H	DISCOVERY T&L	27500
11.604	H	DISNEY CHANNEL	27500
11.604	H	ORBIT NEWS	27500
●11.604	H	ORBIT NEWS 2	27500
11.604	H	SUPER COMEDY +2	27500
11.604	H	TOON DISNEY	27500
11.604	H	CNNI	27500
11.604	H	e-GMA DZBB	27500
11.604	H	e-KHALIJYA'T	27500
11.604	H	e-MONAWA'T	27500
11.604	H	e-TARABIYA'T	27500
11.623	V	Al-Khel TV	27500
●11.623	V	Alhema	27500
●11.623	V	Auto one TV	27500
11.623	V	Bahrain TV	27500
11.623	V	Bin-Othaimeen	27500
11.623	V	Jasco	27500
11.623	V	NART	27500
11.623	V	Oscar Drama	27500
11.623	V	Ritmo TV	27500
11.623	V	Sada Al Islam	27500
11.623	V	Salwa	27500
11.623	V	SANA	27500
11.623	V	Touor_Al-Janah	27500
11.635	H	Fann	14468
11.635	H	Mkls Feed	14468
11.635	H	Music Now	14468
11.635	H	Salwa	14468
11.662	V	4Shabab TV	27500
11.662	V	Afkar-wa-Mawaheb	27500
11.662	V	Al JADEED	27500
●11.662	V	Al-Montada	27500
11.662	V	AlSumaria	27500
11.662	V	Arrai	27500
●11.662	V	Auto One TV	27500
●11.662	V	DM ARABIA	27500
11.662	V	HAJ and OMRA	27500
11.662	V	IRAQ Economic	27500
11.662	V	Karbala	27500
11.662	V	Mihnati-Artvision	27500
11.662	V	Shababeek	27500
11.662	V	STOCK TV	27500
11.681	H	AL SAFWA	27500
11.681	H	AL YAWM	27500
11.681	H	CINEMA 1	27500
11.681	H	CINEMA 2	27500
11.681	H	FANN	27500
11.681	H	GMA LIFE TV	27500
11.681	H	GMA Pinoy TV	27500
11.681	H	HISTORY CHANNEL	27500
11.681	H	HOLLYWOOD	27500
11.681	H	NBA TV	27500
11.681	H	NBN PINOY NEWS	27500
11.681	H	SERIES+4	27500
11.681	H	SUPER MOVIES+1	27500
11.681	H	TCM	27500
11.681	H	GMA DWLS FM	27500
●11.001	V	ftvarabia	3570
●11.001	V	Jarastv	3570
●11.001	V	OYOUN TV	3570

North Africa, Middle East

BADR-3,4

26.0 East

BADR03KB

Freq GHz	Pol	Channel Name	Symbol rate
11.727	H	Algeria	27500
11.727	H	Booyut Motmaeena	27500
11.727	H	Eriteria	27500
11.727	H	Ethiopia	27500
11.727	H	Hannibal	27500
11.727	H	Libya Sport (Riadia)	27500
11.727	H	Libya TV	27500
11.727	H	Mauritania	27500
11.727	H	Morroco TV	27500
11.727	H	Tunis	27500
11.727	H	Tunisie 21	27500
11.727	H	Algeria R1	27500
11.727	H	Algeria R2	27500
11.727	H	Eritera R1	27500
11.727	H	Eriteria R2	27500
11.727	H	Ethiopia R1	27500
11.727	H	Mauritania R1	27500
11.727	H	R- Tunisie- Culture	27500
11.727	H	R- Tunisie- Internat	27500
11.727	H	R- Tunisie- National	27500
11.727	H	Zitouna Tunisie	27500
11.747	V	A Thuraya	27500
11.747	V	AAKAR	27500
11.747	V	Al Jawhara TV	27500
11.747	V	Alkawthar	27500
11.747	V	ASNshop	27500
11.747	V	Oman	27500
11.747	V	Oyoun Jeddah	27500
11.747	V	Saudi 1	27500
11.747	V	Saudi 2	27500
11.747	V	Tayba TV	27500
11.747	V	Test	27500
11.747	V	OMAN ENGLISH PROG	27500
11.747	V	OMAN GENERAL PROG	27500
11.747	V	OMAN YOUTH PROGRA	27500
11.747	V	Radio RMC	27500
11.747	V	RFI Radio	27500
11.747	V	Saudi 2 R1	27500
11.747	V	Saudi1 R1	27500
11.747	V	Saudi1 R2	27500
11.785	V	A1 Shop	27500
11.785	V	El Emarah	27500
11.785	V	Future USA	27500
11.785	V	Ghinwa	27500
11.785	V	Sahm TV	27500
11.785	V	Strike	27500
11.785	V	Test 1	27500
11.785	V	Test 10	27500
11.785	V	Test 11	27500
11.785	V	Test 12	27500
11.785	V	Test 13	27500
11.785	V	Test 15	27500
11.785	V	Test 5	27500
11.785	V	Test 6	27500
11.785	V	Test 8	27500
11.804	H	A1 Shop	27500
11.804	H	ABU DHABI-A	27500
11.804	H	ABU DHABI-E	27500
11.804	H	AD Sports	27500
11.804	H	AL Emarat	27500
11.804	H	AlQuds TV	27500
11.804	H	El Emarah	27500
11.804	H	Future USA	27500
11.804	H	Ghinwa	27500
11.804	H	Poet	27500
11.804	H	Sahm TV	27500
11.804	H	SHARJAH TV	27500
11.804	H	Strike	27500
11.804	H	Test 1	27500
11.804	H	Test 10	27500
11.804	H	Test 11	27500
11.804	H	Test 12	27500
11.804	H	Test 13	27500
11.804	H	Test 15	27500
11.804	H	Test 2	27500
11.804	H	Test 3	27500
11.804	H	Test 5	27500
11.804	H	Test 6	27500
11.804	H	Test 8	27500
11.804	H	Training	27500
11.804	H	ABU DHABI RADIO	27500
11.804	H	AD RADIO 1	27500
11.804	H	ALAIN Athaan	27500
11.804	H	ALATHAN Radio	27500
11.804	H	EMARAT FM	27500
11.804	H	Fujairah Athaan	27500
11.804	H	LIWA Athaan	27500
11.804	H	QURAAN QARIM	27500
11.804	H	SHARJAH Radio	27500
11.804	H	SOWT ALMUSICA	27500
11.804	H	Test	27500
11.843	H	Al-Resaala	27500
11.843	H	Arabsat Promotion Ch	27500
11.843	H	Fox Movies	27500
11.843	H	Info.Mohammd	27500
11.843	H	Rotana Cinema	27500
11.843	H	Rotana Clip	27500
11.843	H	Rotana Khalijiah	27500
11.843	H	Rotana Music	27500
11.843	H	Rotana Tarab	27500
11.843	H	Rotana Zaman	27500
11.843	H	test	27500
11.862	V	A lpha Shop	27500
11.862	V	AL JAZEERA CHILDR	27500
11.862	V	Montada	27500
11.862	V	Najah	27500
11.862	V	Oman TV2	27500
11.862	V	Rawae	27500
11.862	V	Scope TV	27500
11.862	V	Sehraya TV	27500
11.862	V	Test 2	27500
11.862	V	Test 3	27500
11.862	V	Test4	27500
11.862	V	Yara TV	27500
11.862	V	ALKAWTHAR Radio	27500
11.862	V	Oman Quraan Karim	27500
12.015	V	Al-EKhbaria	27500
12.015	V	Saudi Sport	27500
12.015	V	Saudi TV	27500
12.015	V	Saudi-1	27500
12.015	V	Saudi-2	27500
12.015	V	European	27500
12.015	V	Holy Quran	27500
12.015	V	Radio-5	27500
12.015	V	Saudi Radio-1	27500
12.015	V	Saudi Radio-2	27500

BADR04KB

Freq GHz	Pol	Channel Name	Symbol rate
11.823	V	AlManar	27500
11.823	V	Future News	27500
11.823	V	Future TV	27500
11.823	V	Future USA	27500
11.823	V	LBCI	27500
11.823	V	OTV	27500
11.823	V	Star Academy	27500
11.823	V	TeleLiban	27500
11.823	V	test 5	27500
11.823	V	Thane Express	27500
11.823	V	Radio El Nour	27500
11.823	V	Radio Orient	27500
11.919	H	MBC Int	27500
11.919	H	AL-Arabiya	27500
11.919	H	MBC Action	27500
●11.919	H	MBC MAX	27500
11.919	H	MBC Persia	27500
11.919	H	MBC1	27500
11.919	H	MBC2	27500
11.919	H	MBC3	27500
11.919	H	MBC4	27500
11.919	H	TXT TV	27500
11.919	H	Jeddah FM	27500
11.919	H	MBC FM	27500
11.919	H	MBC FM ER	27500
11.919	H	Panjordon	27500
11.919	H	Panorama	27500
11.919	H	Riyadh FM	27500
11.938	V	Al Hurra	27500
11.938	V	Al Hurra Iraq	27500
11.938	V	AlManar TV	27500
11.938	V	Ameen	27500
11.938	V	AutoOne	27500
11.938	V	Bab El Mawada	27500
11.938	V	Beeaty TV	27500
11.938	V	DiTVe Promo 3	27500
11.938	V	Done Deal TV	27500
11.938	V	Fanoos	27500
11.938	V	Hamsa	27500
●11.938	V	Musabaqat al Quran a	27500
11.938	V	OTV	27500
11.938	V	Rayhana TV	27500
11.938	V	Romanceya TV	27500
11.938	V	Shefaa TV	27500
●11.938	V	TEST	27500
11.938	V	U-Mark	27500
11.938	V	El Nour Radio	27500
11.938	V	Radio Farda	27500
11.938	V	Radio Iraq north and	27500
11.938	V	Radio Sawa Iraq	27500
11.938	V	Radio Sawa Levent	27500
11.938	V	Radio Sawa Sudan	27500
11.957	H	HD VISIO TV	27500
11.957	H	LUXE TV HD	27500
11.957	H	Melody Zen HD	27500
11.957	H	HD VISIO TV2	27500
11.957	H	TEST	27500
11.958	H	HD VISIO TV	27500
11.958	H	LUXE TV HD	27500
11.958	H	Melody Zen HD	27500
11.958	H	HD VISIO TV2	27500
11.958	H	TEST	27500
11.976	V	Al Watan Plus	27500
11.976	V	Al Watan TV	27500
11.996	H	Al Jazzera	27500
11.996	H	AlAlam	27500
11.996	H	AlMustakillah	27500
11.996	H	Arabsat Promotional	27500
11.996	H	BBC Arabic	27500
11.996	H	CNBC Arabiya	27500
11.996	H	France 24 (in Arabic	27500
11.996	H	Nessma TV	27500
11.996	H	Rusiya Al-Yaum	27500
11.996	H	TEST	27500
11.996	H	AlAlam R1	27500
11.996	H	AlAlam R2	27500
11.996	H	BBC World English	27500
11.996	H	BBC World Service	27500
11.996	H	CNBC Arabiya R1	27500
11.996	H	WRN (Sawt AlAlam)	27500
12.034	H	AL JAZEERA CHILDR	27500
12.034	H	Alkass	27500
12.034	H	JSC	27500
12.034	H	JSC Documentary	27500
12.034	H	JSC English	27500
12.034	H	JSC Mubasher	27500
12.034	H	JSC Sports	27500
12.034	H	Qatar TV	27500
12.034	H	Qatar Radio	27500
12.034	H	Sout Al Khaleej	27500
12.034	H	Sout Al Rayyan	27500
12.053	V	Addounia TV	27500
12.053	V	AlAqsa	27500
12.053	V	AlRai	27500
12.053	V	Awtan	27500
12.053	V	Jordan TV	27500
12.053	V	KBS W	27500
12.053	V	Khabar	27500
12.053	V	Live TV	27500
12.053	V	Press TV	27500
12.053	V	Syria TV	27500
●12.053	V	Test	27500
12.053	V	AlAqsa Voice	27500
12.053	V	Jordan Fann	27500
12.053	V	Jordan Radio	27500
12.053	V	Syria R1	27500
12.053	V	Syria R2	27500
12.053	V	Syria R3	27500
12.072	H	Aalam Hawaa	27500
12.072	H	Al Hiwar	27500
12.072	H	ANN TV	27500
12.072	H	Arabsat Promotion Ch	27500
12.072	H	Arosty	27500
12.072	H	Bab El Mawada	27500
12.072	H	BBC World Middle E	27500
12.072	H	Douaa TV	27500
12.072	H	Euronews	27500
12.072	H	Funoon TV	27500
12.072	H	Luxe TV	27500
12.072	H	NHK World	27500
12.072	H	Seha TV	27500
12.072	H	TEST	27500
12.072	H	TV5 Monde Orient	27500
12.073	H	Aalam Hawaa	27500
12.073	H	Al Hiwar	27500
12.073	H	ANN TV	27500
12.073	H	Arabsat Promotion Ch	27500
12.073	H	Arosty	27500
12.073	H	Bab El Mawada	27500
12.073	H	BBC World Middle E	27500
12.073	H	Douaa TV	27500
12.073	H	Euronews	27500
12.073	H	Funoon TV	27500
12.073	H	Luxe TV	27500
12.073	H	NHK World	27500
12.073	H	Seha TV	27500
12.073	H	TEST	27500
12.073	H	TV5 Monde Orient	27500
12.092	V	AL HRMAIN	27500
12.092	V	AL MOJTAMA	27500
12.092	V	ALDAFRAH Music	27500
12.092	V	Dunia TV	27500
●12.092	V	EBONY TV	27500
12.092	V	Fujairah Media 12	27500
12.092	V	orient	27500
●12.092	V	QRANNI TV	27500
●12.092	V	SAHAR TV	27500
12.092	V	Shaer al Rasoul	27500
12.092	V	TEAM TV	27500
12.092	V	Zoal TV	27500
●12.092	V	Coast FM	27500
12.092	V	Fujairah FM Radio	27500
12.111	H	Al Eqtisadia TV	27500
12.111	H	ALAAN TV	27500
12.111	H	ARIRANG	27500
12.111	H	ASHOROOQ TV	27500
12.111	H	Decision Makers Tv	27500
12.111	H	Dubai Sports 2	27500
12.111	H	INFINITY 2	27500
12.111	H	Jawna	27500
12.111	H	SHARAQIYA	27500
12.130	H	4FUN	27500
12.130	H	Ahlulbayt	27500
12.130	H	Al Eqtisadia TV	27500
12.130	V	Al Haqiqa	27500
12.130	V	Al Motahdth	27500

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Freq GHz	Pol	Channel Name	Symbol rate
12.130	H	ALAAN TV	27500
12.130	H	ARIRANG	27500
12.130	H	ASHOROOQ TV	27500
12.130	H	Decision Makers Tv	27500
12.130	V	Dubai One	27500
12.130	H	Dubai Racing	27500
12.130	H	Dubai Sport	27500
12.130	H	Dubai Sports 2	27500
12.130	H	Dubai TV	27500
12.130	H	INFINITY 2	27500
12.130	H	IQRA	27500
12.130	H	Jawna	27500
12.130	V	Marasil	27500
12.130	V	Nilat	27500
12.130	V	Sama Dubai	27500
12.130	H	SHARAQIYA	27500
12.130	V	Al Mirbad Radio	27500
● 12.149	H	Al-Adalah	27500
12.149	H	ALBAGHDADIA	27500
12.149	H	ALhayat	27500
12.149	H	ALRwaad	27500
12.149	H	Amwaj	27500
12.149	H	Arosty	27500
12.149	H	Bedayah Nesaaya TV	27500
12.149	H	Daleel	27500
12.149	H	FUNoon Plus	27500
12.149	H	Hala TV	27500
● 12.149	H	Hayatouna TV	27500
● 12.149	H	Safa TV	27500
12.149	H	Wtanya	27500
12.167	V	Al Dawliya	27500
12.167	V	Ghiras TV	27500
12.167	V	MTV ARABIA	27500
12.167	V	Nickelodeon	27500
12.167	V	NOOR DUBAI	27500
12.182	H	AL-EMAN	16200
12.182	H	SHEBA	16200
12.182	H	YAMANIA	16200
12.182	H	YEMEN	16200
12.182	H	YEMEN R1	16200
12.182	H	YEMEN R2	16200
12.182	H	YEMEN R3	16200
12.182	H	YEMEN R4	16200
12.206	V	Aalam Hawaa	27500
12.206	V	Al-Iraqia	27500
12.206	V	AL-majd	27500
12.206	V	AL-majd Quran	27500
12.206	V	PEACE TV	27500
12.206	V	PSC	27500
12.206	V	Qatar TV	27500
12.206	V	RTD DJIBOUTI	27500
12.206	V	Sehraya	27500
12.206	V	Shada	27500
12.206	V	Sudan TV	27500
12.206	V	Tayba TV	27500
12.206	V	Al-Iraqia Quran	27500
12.206	V	Djibouti Radio	27500
12.206	V	PSC Radio	27500
12.206	V	Qatar Radio	27500
12.206	V	Radio Baghdad	27500
12.206	V	Sudan R1	27500
12.206	V	Sudan R2	27500
12.206	V	Tayba Radio	27500
12.226	H	Bahrain 55	27500
12.226	H	Bahrain Sport	27500
12.226	H	Bahrain TV	27500
12.226	H	Test 1	27500
12.226	H	Test 2	27500
12.226	H	Test 3	27500
12.226	H	Test 4	27500
12.226	H	Test 5	27500
12.226	H	Test 6	27500
12.226	H	Test 7	27500
12.226	H	Arab Classical Music	27500
12.226	H	Bahrain FM	27500
12.226	H	Bahrain Radio genera	27500
12.226	H	Holy Quran Channel	27500
12.226	H	News Channel	27500
12.226	H	Radio Bahrain	27500
12.226	H	Test 1	27500
12.226	H	Traditional Music	27500
12.284	V	Aamal	27500
● 12.284	V	AL- SENAAEA - I .	27500
12.284	V	Douaa	27500
● 12.284	V	Eretria	27500
● 12.284	V	Ethiopia	27500
● 12.284	V	Future USA	27500
● 12.284	V	Mauritania TV	27500
12.284	V	Montada	27500
● 12.284	V	RAMATTAN MOBASHER	27500
12.284	V	Rawae TV	27500
● 12.284	V	Roayah	27500
12.284	V	Scope TV	27500
● 12.284	V	Syrian Education	27500
● 12.284	V	EMARAT FM	27500
● 12.284	V	Eretria R1	27500
● 12.284	V	Eriteria R2	27500
● 12.284	V	Ethiopia R1	27500
● 12.284	V	Ethiopia R2	27500
● 12.284	V	Mauritania R	27500
● 12.284	V	Radio Orient	27500
12.523	H	ETHRAA	27500
12.523	H	KTV CH1	27500
12.523	H	KTV.H.Quran	27500
12.523	H	KUWAIT CH2	27500
12.523	H	KUWAIT FEED	27500
12.523	H	SPORT PLUS	27500
12.523	H	YOUTH SPORT	27500
12.302	H	Aamal	27500
12.302	H	Douaa	27500
12.302	H	Montada	27500
12.302	H	Play Maker	27500
12.302	H	Rawae TV	27500
12.302	H	Ruayh	27500
12.302	H	Scope TV	27500

Europe, Africa
C-Band: BADR 6
26.1 East

BADR0CCH

Freq GHz	Pol	Channel Name	Symbol rate
3.882	H	AAKAR	27500
3.882	H	Al Jawhara	27500
3.882	H	Booyut Motmaeena	27500
3.882	H	Family TV	27500
3.882	H	Oyoun Jeddah	27500
3.882	H	Press TV	27500
3.882	H	Sehraya	27500
3.882	H	Test	27500
3.882	H	Test1	27500
3.882	H	Thane TV	27500
3.882	H	Thuraya TV	27500
3.882	H	Yara TV	27500
4.040	H	AD Sports	27500
4.040	H	Al Ekhbaria	27500
4.040	H	Dubai TV	27500
4.040	H	Ethiopia	27500
4.040	H	IQRA	27500
4.040	H	OTV	27500
4.040	H	PRESS TV	27500
4.040	H	Riyadiyah	27500
4.040	H	Saudi-1	27500
4.040	H	Saudi-2	27500
4.040	H	Ethiopia R1	27500
4.094	H	BT15	4340

Europe
ASTRA 2A,B,C,D, EUROBIRD 1
28.2 East

Freq GHz	Pol	Channel Name	Symbol rate
11.759	H	1381	27500
11.759	H	1382	27500
11.759	H	1383	27500
11.759	H	1384	27500
11.759	H	1385	27500
11.759	H	1386	27500
11.759	H	1387	27500
11.759	H	1388	27500
11.759	H	1389	27500
11.759	H	1481	27500
11.759	H	1482	27500
11.759	H	1483	27500
11.759	H	1484	27500
11.759	H	1485	27500
11.759	H	1486	27500
11.759	H	1487	27500
11.759	H	1488	27500
11.759	H	1489	27500
11.778	V	Music Choice	27500
11.778	V	60s	27500
11.778	V	70s	27500
11.778	V	80s	27500
11.778	V	90s	27500
11.778	V	All Day Party	27500
11.778	V	Arabic	27500
11.778	V	Bass, Breaks & Beats	27500
11.778	V	Blues	27500
11.778	V	Bollywood Hits	27500
11.778	V	Chansons	27500
11.778	V	Chillout	27500
11.778	V	Classic R'n'B & Soul	27500
11.778	V	Classic Rock	27500
11.778	V	Classical Calm	27500
11.778	V	Classical Greats	27500
11.778	V	Classical Orchestral	27500
11.778	V	Cocktail Lounge	27500
11.778	V	Cool Jazz	27500
11.778	V	Country	27500
11.778	V	DanceFloor Fillers	27500
11.778	V	Drive	27500
11.778	V	Freedom	27500
11.778	V	Groove (Disco & Funk	27500
11.778	V	Harder Than Hell	27500
11.778	V	Hip Hop	27500
11.778	V	Indie Classics	27500
11.778	V	Jazz Classics	27500
11.778	V	Kids	27500
11.778	V	New Age	27500
11.778	V	Reggae	27500
11.778	V	Revival (60s-70s)	27500
11.778	V	Rewind (80s-90s)	27500
11.778	V	Rock 'n' Roll	27500
11.778	V	Rock Anthems	27500
11.778	V	Schlager	27500
11.778	V	Silk (Love Songs)	27500
11.778	V	The Alternative - UK	27500
11.778	V	The Alternative-GER	27500
11.778	V	Total Hits - France	27500
11.778	V	Total Hits - Germany	27500
11.778	V	Total Hits - Italy	27500
11.778	V	Total Hits - NL	27500
11.778	V	Total Hits - Nordic	27500
11.778	V	Total Hits - Spain	27500
11.778	V	Total Hits - UK	27500
11.778	V	Türk Müziki	27500
11.778	V	Urban	27500
11.778	V	World Music	27500
11.778	V	EPG Background Audio	27500
11.778	V	IEPG data 1	27500
11.836	H	Sky Action	27500
11.836	H	Sky Classics	27500
11.836	H	Sky Comedy	27500
11.836	H	Sky Drama	27500
11.836	H	Sky Family	27500
11.836	H	Sky Indie	27500
11.836	H	Sky ScFi/Horror	27500
● 11.856	V	New	29500
● 11.856	V	Sky Family HD	29500
● 11.856	V	Sky Screen 2HD	29500
11.915	H	TV5	27500
● 11.934	V	Cust Chan Active	27500
11.934	V	Sky Cust Ch	27500
11.934	V	Games Slot 15	27500
11.954	H	6736	27500
11.954	H	BBC NEWS	27500
11.954	H	BBC PARL'MNT	27500
11.954	H	T7 STRM-0	27500
11.954	H	T7 STRM-1	27500
11.954	H	1Xtra BBC	27500
11.954	H	BBC London	27500
11.954	H	BBC 6 Music	27500
11.954	H	BBC 7	27500
11.954	H	BBC Asian N.	27500
11.954	H	BBC R Cymru	27500
11.954	H	BBC R n Gael	27500
11.954	H	BBC R Scot.	27500
11.954	H	BBC R Ulster	27500
11.954	H	BBC R Wales	27500
11.954	H	BBC R1	27500
11.954	H	BBC R2	27500
11.954	H	BBC R3	27500
11.954	H	BBC R4 FM	27500
11.954	H	BBC R4 LW	27500
11.954	H	BBC WS	27500
11.954	H	ETV3	27500
12.149	H	Eurosport2 UK	27500
12.149	H	Hallmark	27500
12.149	H	ParaComedy 2	27500
12.149	H	S1Test	27500
12.149	H	Sky Sports 1	27500
12.149	H	Sky Spts News	27500
12.149	H	Sky Spts Xtra	27500
12.149	H	SP News	27500
12.149	H	SP Xtra	27500
12.168	V	C4L Test 1	27500
12.168	V	Channel 4	27500
12.227	H	1837	27500
12.227	H	1840	27500
12.227	H	1871 - OSM Test	27500
12.227	H	KISS	27500
12.227	H	Q	27500
12.227	H	Sky One	27500
12.227	H	Sky Three	27500
12.227	H	Sky Two	27500
12.227	H	The Box	27500
12.227	H	CommunityChnl	27500
12.227	H	Movie Quiz	27500
12.227	H	Vegas Monopoly	27500
12.246	V	Sky Bet, Vegas & Sky	27500
12.246	V	Vegas Pyramid	27500
12.246	V	Vegas Rainbow Riches	27500
12.246	V	WAP Browser 1	27500
12.246	V	WAP Browser 2	27500
12.246	V	Wonder Perks	27500
● 11.720	H	Sky Screen 1HD	29500
11.720	H	Sky Sports HD2	29500
11.720	H	SkyPremiereHD	29500
11.739	V	Bravo	27500
11.739	V	Bravo+	27500
11.739	V	Bravo+1	27500
11.739	V	Bravo~	27500
11.739	V	Challenge	27500
11.739	V	Challenge+	27500
11.739	V	LIVING	27500
11.739	V	LIVING +1	27500
11.739	V	Living+	27500
11.739	V	LIVING2	27500
11.739	V	test~~	27500
11.739	V	Trouble	27500
11.739	V	Trouble+	27500
11.797	H	Channel 4 HD	29500
11.797	H	Sky Sports HD1	29500
● 11.797	H	SkyRealLiveHD	29500
● 11.817	V	6520	27500
11.817	V	Dave	27500
11.817	V	UK Food~	27500
11.817	V	UKTV Docs	27500
11.817	V	Uktv Docs~	27500
11.817	V	UKTV Drama	27500
11.817	V	UKTV Food	27500
11.817	V	UKTV Gold	27500
11.817	V	UKTV History	27500
11.817	V	UKTV Style	27500
11.876	H	Animal Planet	27500
11.876	H	dis+	27500
11.876	H	Disc.H&H+1	27500
11.876	H	Disc.H&Health	27500
11.876	H	Disc.Knowldge	27500
11.876	H	Disc.RealTime	27500
11.876	H	Disc.Science	27500
11.876	H	Disc.Travel&L	27500
11.876	H	Disc.Turbo	27500
11.876	H	Discovery	27500
11.876	H	Discovery+1	27500
11.876	H	H&Li	27500
11.895	V	7042	27500
11.895	V	Mti	27500
11.895	V	MTV BASE	27500
11.895	V	MTV DANCE	27500
11.895	V	MTV HITS	27500
11.895	V	MTV ONE	27500
11.895	V	MTV ONE +1	27500
11.895	V	MTV Trax	27500
11.895	V	MTV TWO	27500
11.895	V	MTV®	27500
11.895	V	TMF	27500
11.895	V	VH1	27500
11.895	V	VH1 Classic	27500
12.051	V	Boomerang	27500
12.051	V	Boomerang +1	27500
12.051	V	Cartoon I	27500
12.051	V	Cartoon Netwrk	27500
12.051	V	CN Too	27500
12.051	V	Toonami I	27500
12.051	V	CNN	27500
12.051	V	5606	27500
12.129	V	B4U Movies	27500
12.129	V	7308	27500
12.129	V	B4U Music	27500
12.129	V	Create & Craft	27500
12.129	V	Ideal World 2	27500
12.129	V	S4C	27500
12.129	V	S4C SE	27500
12.129	V	S4C2	27500
12.129	V	Teletext Holidays	27500
12.129	V	Teletext Hols	27500
12.480	V	12005	27500
12.480	V	Channel 4	27500
12.480	V	Channel 4 +1	27500
● 12.480	V	E4	27500
12.480	V	E4+1	27500
● 12.480	V	More4	27500
12.480	V	Brit Asia TV	27500
12.480	V	Red	27500
12.480	V	TT on 4	27500
12.480	V	PRL 24	27500
11.993	H	6103	27500
11.993	H	7360	27500
11.993	H	7601	27500
11.993	H	Dave +1	27500
11.993	H	UKTV Docs+1	27500
11.993	H	UKTV Drama+1	27500
11.993	H	UKTV Food +1	27500
11.993	H	UKTV Gold +1	27500
11.993	H	Uktv Gold+1~	27500
11.993	H	UKTV People	27500
11.993	H	UKTV Style +1	27500
12.012	V	Entertainment Video	27500
12.012	V	Portal Video	27500
12.012	V	Portal Video 1	27500
12.012	V	Portal Video 2	27500
12.012	V	Portal Video 5	27500
12.012	V	Sky Wonder Perks	27500
12.012	V	Video Application Va	27500
12.012	V	Cartoon Network Game	27500
12.012	V	Cartoon Network Game	27500
12.012	V	Cartoon Network Game	27500
12.012	V	Cartoon Network Game	27500
12.012	V	Games Slot 1	27500
12.012	V	Games Slot 10	27500
12.012	V	Games Slot 11	27500
12.012	V	Games Slot 12	27500
12.012	V	Games Slot 13	27500
12.012	V	Games Slot 14	27500
12.012	V	Games Slot 2	27500
12.012	V	Games Slot 3	27500
12.012	V	Games Slot 4 (catfla	27500
12.012	V	Games Slot 5	27500
12.012	V	Games Slot 6	27500
12.012	V	Games Slot 7	27500
12.012	V	Games Slot 9	27500
12.012	V	Personal Organiser	27500
12.012	V	Portal Video Applica	27500
12.012	V	Sky Bet, Vegas & Sky	27500
12.012	V	Vegas Rainbow Riches	27500
12.070	H	FOX News	27500
12.070	H	Kerrang!	27500
12.070	H	Magic	27500
12.070	H	Sky Sports 1	27500
12.070	H	Sky Sports 3	27500
12.070	H	Sky Spts News	27500
12.070	H	Sky Spts Xtra	27500
12.070	H	Smash Hits!	27500
12.070	H	The Hits	27500
12.070	H	Vegas Cashino	27500
12.070	H	Vegas Hit It Poker	27500
12.070	H	Vegas Wanted DOA	27500
12.090	V	STAR News	27500
12.090	V	STAR Plus	27500
12.285	V	4609	27500
12.285	V	Nat Geo	27500
12.285	V	Nat Geo+1hr	27500
12.285	V	RealmadridTV	27500
12.285	V	Sky One	27500
12.285	V	yd1oe6	27500
12.285	V	yd2oe6	27500
12.285	V	{Empty}	27500
12.285	V	Nat Geo App	27500
12.383	H	MMS 3	27500
12.383	H	MMS 4	27500
12.383	H	MMS 7	27500
12.383	H	{Empty}	27500
12.383	H	1697	27500
12.383	H	4301	27500
12.383	H	Movies Active	27500
12.383	H	Sky	27500
12.383	H	Chl Line-up	27500
12.402	V	12199	27500
12.402	V	ITV1 Anglia W	27500
12.402	V	ITV1 Central SW	27500
12.402	V	ITV1 Mer N	27500
12.402	V	ITV1 Mer SE	27500
12.402	V	ITV1 TT S	27500
12.402	V	ITV1 Yorks E	27500
12.461	H	Coi Tobacco Dal	27500
12.461	H	Portal Video 7	27500
12.461	H	WML IA Application	27500
12.461	H	WML IA Application	27500
12.461	H	Games Slot 25	27500
12.461	H	launchpad	27500
12.461	H	Sky Active	27500
12.461	H	Sky Upgrade Dal	27500
12.461	H	TLM Portal Plug In	27500
12.461	H	Vegas Bar x5	27500
12.461	H	Vegas Monty Python	27500
12.461	H	Vegas Pyramid	27500
12.461	H	WAP Browser 1	27500
12.461	H	WAP Browser 2	27500
12.461	H	WML Highscores	27500
12.461	H	Wonder Perks	27500
11.973	V	MAX	27500
11.973	V	Sony TV Asia	27500
11.973	V	UKTV Docs+1	27500
12.031	H	bid tv	27500
12.031	H	Ideal World	27500
12.031	H	price-drop tv	27500
12.031	H	QVC	27500
12.031	H	QVC IMM Test	27500
12.031	H	QVC Mosaic Test	27500
12.031	H	QVC Test	27500
12.031	H	QVC TSVNOW	27500
12.031	H	speedauctiontv	27500
12.110	H	Cartoonito	27500
12.110	H	FX	27500
12.110	H	SBL	27500
12.110	H	Sky Sports 1	27500
12.110	H	Sky Sports 2	27500
12.110	H	Sky Sports 3	27500
12.110	H	SP1	27500
12.110	H	SP3	27500
12.110	H	Games Slot 23	27500
12.110	H	Games Slot 24	27500
12.188	H	Chelsea TV	27500
12.188	H	E! Entertainm	27500
12.188	H	Eurosport UK	27500
12.188	H	MUTV	27500
12.188	H	Nat Geo Wild	27500
12.188	H	ParaComedy 1	27500
12.188	H	TCM	27500
12.188	H	HSSNR	27500
12.188	H	snr3	27500
12.188	H	Vegas DOND	27500
12.207	V	Sky News	27500
12.207	V	Sky News Eire (Cable	27500
12.207	V	Sky News UK (Cable)	27500
12.265	H	Jetix +1	27500
12.265	H	Nick Jr Test	27500
12.265	H	Nick Jr.	27500
12.265	H	Nick Replay	27500
12.265	H	Nick Test	27500
12.265	H	Nickelodeon	27500
12.265	H	Nicktoons	27500
12.265	H	Sky Sports 2	27500
12.265	H	SP2	27500
12.265	H	{Empty}	27500
12.305	H	1429	27500
12.305	H	Crime	27500
12.305	H	Five T2 Reg 2	27500
12.305	H	Jetix	27500
12.305	H	Retail Info	27500
12.305	H	Sky Premiere	27500
12.305	H	Sky Vegas	27500
12.305	H	SkyPoker.com	27500
12.324	V	Discovery HD	29500
12.324	V	HD Retail Info	29500
12.344	H	Eurosport HD	29500
12.344	H	Nat Geo HD	29500
12.344	H	Sky1 HD	29500
12.363	V	History HD	29500
12.363	V	SBO HD1	29500
12.363	V	Sky Sports HD3	29500
12.441	V	STREAM-0	27500
12.441	V	STREAM-1	27500
12.441	V	STREAM-2	27500
12.441	V	STREAM-3	27500
12.441	V	STREAM-4	27500
12.441	V	STREAM-5	27500
12.441	V	STREAM-6	27500

AST02CKU

Freq GHz	Pol	Channel Name	Symbol rate
● 10.964	H	7702	22000
● 10.964	H	7703	22000
10.964	H	Five	22000
10.964	H	Five US	22000
10.964	H	Five US +1	22000
10.964	H	FIVER	22000
10.964	H	FIVER +1	22000

AST02DKB

Freq GHz	Pol	Channel Name	Symbol rate
10.714	H	C4L Test 1	22000
10.714	H	Channel 4	22000
10.714	H	Film4	22000
10.714	H	Film4 +1	22000
10.714	H	More4 +1	22000
10.729	V	8389	22000
● 10.729	V	c4 I +1	22000
10.729	V	Channel 4 +1	22000
● 10.729	V	e4	22000
10.729	V	E4	22000
10.729	V	E4+1	22000
10.729	V	More4	22000
10.744	H	DW-TV	22000
10.744	H	RTE One	22000
10.744	H	RTE TWO	22000
● 10.744	H	TG4	22000
10.744	H	TV3	22000
10.744	H	RTE 2FM	22000
10.744	H	RTE Lyric fm	22000
10.744	H	RTE R na G	22000
10.744	H	RTE Radio 1	22000
● 10.759	V	CITV	22000
10.759	V	ITV1 Anglia E	22000
10.759	V	ITV1 Central W	22000
10.759	V	ITV1 Granada	22000
10.759	V	ITV1 London	22000
10.759	V	ITV2	22000
10.759	V	ITV4	22000
10.759	V	Men & Motors	22000
● 10.773	H	6335	22000
10.773	H	BBC 1 London	22000
10.773	H	BBC 1 NI	22000
10.773	H	BBC 2 England	22000
10.773	H	BBC FOUR	22000
10.773	H	BBC TES 3	22000
10.773	H	BBC THREE	22000
10.773	H	ETV	22000
10.788	V	BBC 1 E Mids	22000
10.788	V	BBC 1 East (E)	22000
10.788	V	BBC 1 N West	22000
10.788	V	BBC 1 W Mids	22000
10.788	V	BBC 1 Yorks	22000
10.788	V	BBC 1 Yrks&Lin	22000
10.788	V	ETV5	22000
10.803	H	BBC 1 Scotland	22000
10.803	H	BBC 1 Wales	22000
10.803	H	BBC 2 NI	22000
10.803	H	BBC 2 Scotland	22000
10.803	H	BBC 2W	22000
10.803	H	ETV2	22000
● 10.803	H	BBC R5L	22000
● 10.803	H	BBC R5SX	22000
10.818	V	BBC 1 NE & C	22000
10.818	V	BBC 1 Oxford	22000
10.818	V	BBC 1 S East	22000
10.818	V	BBC 1 S West	22000
10.818	V	BBC 1 South	22000
10.818	V	BBC 1 West	22000
10.818	V	ETV6	22000
10.832	H	G49	22000
10.832	H	ITV1 Border	22000
10.832	H	ITV1 Central E	22000
10.832	H	ITV1 Central S	22000
10.832	H	ITV1 W Country	22000
10.832	H	ITV1 Wales	22000
10.832	H	ITV1 West	22000
10.832	H	ITVi Stream 2	22000
10.847	V	6945	22000
10.847	V	BBC HD	22000
10.847	V	BBC 1 CI	22000
10.847	V	BBC 1 East (W)	22000
10.862	H	DCT (t51)	22000
10.862	H	Disney Chnl	22000
10.862	H	Disney Chnl+1	22000
10.862	H	Disney Cine	22000
10.862	H	Disney Cine+1	22000
10.862	H	Play Disney	22000
10.862	H	Play Disney+	22000
10.862	H	ArrwRock	22000
10.862	H	Galaxy	22000
10.862	H	Heart	22000
10.862	H	LBC 97.3	22000
10.862	H	Oneword	22000
10.862	H	punjabi radio	22000
10.862	H	Real Radio	22000
10.862	H	Smooth	22000
10.862	H	talkSPORT	22000
10.862	H	Vegas Cleopatra	22000
10.862	H	Vegas Diamond Compas	22000
10.862	H	Vegas Golden Doubloo	22000
10.862	H	Vegas Roulette II	22000
10.877	V	1356	22000
10.877	V	At The Races	22000
10.877	V	FX+	22000
10.877	V	Sky Real Lives	22000
10.877	V	Sky Sports 2	22000
10.877	V	Sky Travel	22000
10.877	V	SkyRealLive+1	22000
10.877	V	SkyRealLives2	22000
10.891	H	G53	22000
10.891	H	ITV1 Anglia S	22000
10.891	H	ITV1 BorderSco	22000
10.891	H	ITV1 Meridian E	22000
10.891	H	ITV1 Meridian S	22000
10.891	H	ITV1 TT N	22000
10.891	H	ITV1 Yorks W	22000
10.891	H	ITV2+1	22000
10.906	V	G54	22000
10.906	V	ITV Channel Is	22000
10.906	V	ITV3	22000
10.906	V	ITV3+1	22000
10.906	V	stv	22000
10.906	V	UTV	22000
10.921	H	Current TV	22000
10.921	H	NDTV 24x7	22000
10.935	V	1391	22000
10.935	V	1392	22000
10.935	V	1393	22000
10.935	V	1394	22000
10.935	V	1395	22000
10.935	V	1396	22000
10.935	V	1397	22000
10.935	V	1398	22000
10.935	V	1399	22000
10.935	V	1471	22000
10.935	V	1472	22000
10.935	V	1473	22000
10.935	V	1474	22000
10.935	V	1475	22000
10.935	V	1476	22000
10.935	V	1477	22000
10.935	V	1478	22000
10.935	V	{Empty}	22000

EUB001KF

Freq GHz	Pol	Channel Name	Symbol rate
11.222	H	Disc.Know.+1	27500
11.222	H	DMAX+1	27500
11.222	H	CelebrityShop	27500
11.222	H	Chat Box	27500
11.222	H	Clubland TV	27500
11.222	H	Fashion TV	27500
11.222	H	Get Lucky TV	27500
11.222	H	JJB Golf	27500
11.222	H	ROCKWORLDTV	27500
11.222	H	UCB TV	27500
11.222	H	Zone Horror+1	27500
11.222	H	BFBS Radio	27500
11.222	H	Club Asia	27500
11.222	H	Sunrise	27500
11.224	V	Nollywood	27500
11.224	V	SAB TV	27500
11.224	V	Sahara One	27500
11.224	V	jazeerachildren	27500
11.224	V	movies4men	27500
11.224	V	movies4men 2	27500
11.224	V	oMusic TV	27500
11.224	V	Pitch TV	27500
11.224	V	Pitch World	27500
11.224	V	PTV Global	27500
11.260	V	AAJ TAK	27500
11.260	V	Audi Channel	27500
11.260	V	Casino TV	27500
11.260	V	Fight Network	27500
11.260	V	Gospel Channel	27500
11.260	V	Nepali TV	27500
11.260	V	Open Access	27500
11.260	V	Open Access 2	27500
11.260	V	Open Access 3	27500
11.260	V	SmartLive	27500
11.260	V	Tease Me	27500
11.261	H	Africa Channel	27500
11.261	H	Channel 6	27500
11.261	H	CNBC	27500
11.261	H	DMAX	27500
11.261	H	STAR Gold	27500
11.261	H	STAR One	27500
11.261	H	Business Chn'l	27500
11.261	H	DM Digital	27500
11.261	H	Gay Network	27500
11.261	H	Max TV	27500
11.261	H	SportxxxBabes	27500
11.261	H	Thane Direct	27500
11.261	H	Zone Horror	27500
11.261	H	Zone Reality +1	27500
11.261	H	Newstalk	27500
11.261	H	Panjab Radio	27500
11.307	V	53325	27500
11.307	H	Bravo 2	27500
11.307	H	Challenge+1	27500
11.307	H	LIVING	27500
11.307	V	Motors TV	27500
11.307	V	The Style Ntwk	27500
11.307	H	Virgin 1	27500
11.307	H	Virgin 1+1	27500
11.307	V	9X	27500
11.307	V	Aastha TV	27500
11.307	V	BET	27500
11.307	V	High Street TV	27500
11.307	V	Ideal World 3	27500
11.307	V	Jewellery Ch.	27500
11.307	H	JML	27500
11.307	V	NigeriaMovies	27500
11.307	H	NTAI	27500
11.307	H	propeller	27500
11.307	H	Premier	27500
11.343	V	ParaComedy2+	27500
11.343	V	Babestation	27500
11.343	V	Babeworld.tv	27500
11.343	V	Baby Channel	27500
11.343	V	Fizz	27500
11.343	V	Lucky Star	27500
11.343	V	Mainstreet	27500
11.343	V	My Channel	27500
11.343	V	NDTV Imagine	27500
11.343	V	Psychic TV	27500
11.343	V	Raj TV	27500
11.343	V	SA Direct	27500
11.343	V	Sumo TV	27500
11.343	V	ZoneRomantica	27500
11.345	H	Animal Plnt+1	27500
11.345	H	Disc.RT Extra	27500
11.345	H	Disc.RT+1	27500
11.345	H	Disc.Sci+1	27500
11.345	H	Nick Jr. 2	27500
● 11.345	H	AAP TV	27500
11.345	H	Bangla TV	27500
11.345	H	Blue Kiss TV	27500
11.345	H	Essex Babes	27500
● 11.345	H	KBC	27500
11.345	H	LivexxxBabes	27500
11.345	H	Real Estate TV	27500
11.345	H	Wedding TV	27500
● 11.389	H	52400	27500
11.390	V	Adult Channel	27500
11.390	V	Climax3 - 1	27500
11.390	V	Climax3 - 2	27500
11.390	V	Climax3 - 3	27500
11.390	V	movies24	27500
11.390	V	movies24+	27500
11.390	V	Playboy One	27500
11.390	V	Playboy TV	27500
11.390	V	psdtt	27500
11.390	V	Spice Extreme	27500
11.390	V	ARY Oneworld	27500
11.390	V	Dating Channel	27500
11.390	V	Amrit Bani	27500
11.390	V	big L 1395	27500
11.390	V	Caroline	27500
11.390	V	CC Radio	27500
11.390	V	Colourful	27500
11.390	V	Desi Radio	27500
11.390	V	DutchIntSv	27500
11.390	V	Family Radio	27500
11.390	V	Gaydarradio	27500
11.390	V	Ignition	27500
11.390	V	InsightRadio	27500
11.390	V	MOS Radio	27500
11.390	V	NME	27500
11.390	V	Pulse Rated	27500
11.390	V	Raaj Radio	27500
11.390	V	Rainbow	27500
11.390	V	Recordbrazil	27500
11.390	V	RTE R1 Extra	27500
11.390	V	Spectrum 1	27500
11.390	V	Starpoint Radio	27500
11.390	V	The Word	27500
11.390	V	TWR	27500
11.390	V	VIP Radio	27500
11.390	V	Virgin Radio	27500
11.390	V	Virgin105.8	27500
11.390	V	VirginCRock	27500
11.390	V	VirginXtrme	27500
11.390	V	WRN Europe	27500
11.390	V	Yorkshire R	27500
11.426	V	AAG	27500
11.426	V	ARY QTV	27500
11.426	V	Diva TV	27500
11.426	V	GEO UK	27500
11.426	V	SouthForYou	27500
11.426	V	Bloomberg	27500
11.426	V	DD-India	27500
11.426	V	Glory TV	27500
11.426	V	i Play TV	27500
11.426	V	KICC TV	27500
11.426	V	OBE	27500
11.426	V	Screenshop2	27500
11.426	V	Venus TV	27500

EUB001S1

Freq GHz	Pol	Channel Name	Symbol rate
11.469	H	MMS 1	27500
11.469	H	MMS 2	27500
11.469	H	MMS 5	27500
11.469	H	MMS 6	27500
11.469	H	MMS 8	27500
11.469	H	TVEi	27500
11.469	H	{Empty}	27500
11.469	H	Vegas House of Horro	27500
11.469	H	Vegas Kung Fu Cash	27500
11.488	V	ATN	27500
11.488	V	Channel 'S'	27500
11.488	V	Channel S NTV	27500
11.488	V	France 24	27500
11.488	V	Genesis	27500
11.488	V	HappyHourGirls	27500
11.488	V	Info TV2	27500
11.488	V	Paranormal	27500
11.488	V	revelation	27500
11.488	V	sportsXchange	27500
11.488	V	Tease Me 2	27500
11.508	H	5ADT	27500
11.508	H	8N2	27500
11.508	H	9328	27500
11.508	H	EIA2 Test	27500
11.508	H	EIA2 Test 5	27500
11.508	H	ISM Sky News v6	27500
11.508	H	ISM Sky One v6	27500
11.508	H	ISM Sports 1 v6	27500
11.508	H	ISM Test1 v5	27500
11.508	H	Pub Channel	27500
11.508	H	Vegas Elvis	27500
11.527	V	Extreme Sports	27500
11.527	V	ParaComedy 1	27500
11.527	V	Bubble Hits	27500
11.527	V	Channel M	27500
11.527	V	GayDateTV	27500
● 11.527	V	Life	27500
11.527	V	Thomas Cook	27500
11.546	H	ARY Digital	27500
11.546	H	GEO News	27500
11.546	H	ParaComedy+1	27500
11.546	H	AVAGO (Cable)	27500
11.546	H	AvaTest	27500
11.546	H	cso	27500
11.546	H	Faith	27500
11.546	H	Gala TV	27500
11.546	H	Monte Carlo TV	27500
11.546	H	Shop on TV	27500
11.546	H	Wine TV	27500
11.565	V	Ford Fiesta Dal	27500
11.565	V	IA Homes Dal	27500
11.565	V	Portal Video 6	27500
11.565	V	Sky Games	27500
11.565	V	Remote Control Look	27500
11.565	V	Sky Anytime Dal	27500
11.585	H	Arsenal TV	27500
11.585	H	LiverpoolFCTV	27500
11.585	H	NASN	27500
11.585	H	Racing UK	27500
11.585	H	Setanta Ireland	27500
11.585	H	Setanta Sports	27500
● 11.604	V	4659	27500
11.604	V	Biography	27500
11.604	V	History	27500
11.604	V	Sky Mdn Greats	27500
11.604	V	Sky Prem+1	27500
11.604	V	Games Slot 22	27500
11.623	H	54009	27500
11.623	H	54011	27500
11.623	H	BabyTV	27500
11.623	H	Abu Dhabi TV	27500
11.623	H	Bedroom TV	27500
11.623	H	Horse & Country	27500
11.623	H	PCNE Chinese	27500
11.623	H	PTV Prime	27500
11.623	H	Russia Today	27500
11.623	H	Heat	27500
11.623	H	InTune	27500
11.623	H	Kerrang	27500
11.623	H	Kiss	27500
11.623	H	Magic	27500
11.623	H	MOJO	27500
11.623	H	Q	27500
11.623	H	Smash Hits!	27500
11.623	H	The Hits	27500
11.642	V	Bliss	27500
11.642	V	Chart Show TV	27500
11.642	V	Flaunt	27500
11.642	V	Flava	27500
11.642	V	Kix!	27500
11.642	V	NME TV	27500
11.642	V	POP	27500
11.642	V	PopGirl	27500
11.642	V	PopGirl +1	27500
11.642	V	Scuzz	27500
● 11.642	V	Showcase TV	27500
11.642	V	The Vault	27500
11.642	V	Tiny Pop	27500
11.642	V	Tiny Pop +1	27500
11.642	V	True Movies	27500
11.642	V	True Movies 2	27500
11.662	H	ESPN Classic	27500
11.662	H	CCTV-9	27500
11.662	H	Inspiration	27500
11.662	H	LOVEWORLD TV	27500
11.662	H	mta-muslim tv	27500
11.662	H	PlayJam Games	27500
● 11.662	H	SuperCasino	27500
11.662	H	Word Network	27500
11.662	H	Ladbrokes Roulette	27500
11.681	V	Hallmark +1	27500
11.681	V	SCI FI	27500
● 11.681	V	51108	27500
11.681	V	Al Jazeera Eng	27500
11.681	V	GOD Channel	27500
11.681	V	GOD Europe	27500
11.681	V	Islam Channel	27500
11.681	V	Peace TV	27500
11.681	V	TBN Europe	27500

EUB001S2

Freq GHz	Pol	Channel Name	Symbol rate
12.523	H	AIT Int'l	27500
● 12.523	H	AIT Movistar	27500
12.523	H	BEN	27500
12.523	H	Chat Back	27500
12.523	H	DAYSTAR	27500
12.523	H	EWTN	27500
12.523	H	Information TV	27500
12.523	V	JML BeautyShop	27500
12.523	V	JML Choice	27500
12.523	V	JML CookShop	27500
12.523	V	KBC2	27500
12.523	H	movies4men+1	27500
12.523	H	OHTV	27500
12.523	V	Record TV	27500
12.523	V	Stop + Shop	27500
● 12.523	H	Tease Me 3	27500
12.523	V	TV SHOP	27500
12.523	V	TV Warehouse	27500
12.523	V	TV Warehouse2	27500
12.523	V	Zone Reality	27500
12.523	V	Akash Radio	27500
12.523	V	Asian Gold	27500
12.523	V	Capital	27500
12.523	V	Choice FM	27500
12.523	V	Classic FM	27500
12.523	H	EWTN	27500
12.523	V	FUN Radio	27500
12.523	V	Gold	27500
12.523	V	Hot Digital	27500
12.523	V	Kismat	27500
12.523	V	Liberty	27500
12.523	V	Planet Rock	27500
12.523	H	RTI Radio	27500
12.523	V	Solar Radio	27500
12.523	V	Sukh Sagar	27500
12.523	V	theJazz	27500
12.523	V	UCB Bible	27500
12.523	V	UCB Gospel	27500
12.523	V	UCB Insp	27500
12.523	V	UCB UK	27500
12.523	V	XFM	27500
12.560	V	BabyFirst	27500
12.560	H	Celtic TV	27500
12.560	H	Rangers TV	27500
12.560	H	Setanta Golf	27500
12.560	H	Setanta News	27500
12.560	H	Setanta Sports1	27500
12.560	H	Setanta Sports2	27500
12.560	V	Best Direct	27500
12.560	V	BestDirect+	27500
12.560	V	Bubble Hits	27500
12.560	V	EuroNews	27500
12.560	V	O'seasproperty	27500
12.560	V	Real Estate +1	27500
● 12.560	V	Rocks & Co.	27500
12.560	V	Thomson TV	27500
12.560	V	Travel Channel	27500
12.560	V	TravelChannel2	27500
12.560	V	Wedding TV+1	27500
12.560	V	Zone Thriller	27500
11.053	H	G63	22000
11.053	H	ITVi Stream 3/41	22000
11.053	H	TTG63	22000
● 11.390	H	52400	27500
11.428	H	Brit Shorts	27500
11.428	H	-	27500
11.428	H	GROOVE	27500
11.428	H	HINRG LOWNRG	27500
11.428	H	RADIO SHEPHERD	27500
11.428	H	WELL CLASS	27500
● 12.168	V	Sky Comedy HD	29500
● 12.168	V	Sky Drama HD	29500
● 12.168	V	Sky MdnGrtsHD	29500
● 12.168	V	Sky ScFi/HorHD	29500
● 12.246	V	Bio. HD	29500
● 12.246	V	Crime HD	29500
● 12.246	V	Sky Action HD	29500
12.421	H	B4U Music	27500
12.421	H	bid tv	27500
12.421	H	price-drop tv	27500
12.421	H	QVC	27500
12.421	H	S4C	27500
12.421	H	S4C2	27500
12.421	H	Teachers Tv	27500
12.607	V	Rush HD	27500
12.607	V	AlphaEtcPun	27500
12.607	V	Gay TV	27500
12.607	H	redhot 40+	27500
12.607	H	redhot amateur	27500
12.607	H	redhot dd	27500
12.607	H	redhot fetish	27500
12.607	H	redhot girl girl	27500
12.607	H	redhot just 18	27500
12.607	H	Television X	27500
12.607	H	Television X 2	27500
12.607	H	Television X 3	27500
12.607	H	Television X 4	27500
12.607	V	Zee Cinema	27500
12.607	V	Zee Gujarati	27500
12.607	V	Zee TV	27500
12.607	H	Awareness	27500
12.607	V	Live XXX	27500
● 12.607	H	Pulse	27500
12.607	H	Pulse +1	27500
● 12.607	H	Pulse +1.5	27500
● 12.607	H	Pulse +2	27500
12.607	V	Zee Music	27500
12.643	H	Luxe TV HD	27500
12.643	V	DMAX+1.5	27500
12.643	V	DMAX+2	27500
12.643	V	Military	27500
● 12.643	V	Nick Jr	27500
12.643	V	Nickelodeon	27500
● 12.643	V	ParaComedy+1	27500
● 12.643	V	1896	27500
● 12.643	V	54350	27500

TV Digital
Radio Digital
TV Digital Crypt
Radio Digital Crypt
TV High Definition
TV High Definition Crypt

Freq GHz	Pol	Channel Name	Symbol rate
12.643	H	Body In Balance	27500
●12.643	H	Live Bingo	27500
12.643	H	Luxe TV	27500
12.643	H	Music India	27500
12.643	H	Noor TV	27500
●12.643	V	OceanFinance	27500
●12.643	V	Teachers TV	27500
12.643	V	World Movies	27500

ARABSAT 2B
30.5 East
ARA02BKU

Freq GHz	Pol	Channel Name	Symbol rate
12.582	V	ART-SNG 2	4220
12.589	V	BN SPACE CHANNEL	4220
12.661	V	Almajd 05	27500
12.661	V	Almajd 06	27500
12.661	V	Almajd 07	27500
12.661	V	Almajd 08	27500
12.661	V	Almajd 09	27500
12.661	V	Almajd 10	27500
12.661	V	Almajd 11	27500
12.661	V	Almajd 12	27500
12.661	V	Almajd 13	27500
12.661	V	Almajd 14	27500
12.661	V	Almajd 01	27500
12.661	V	Almajd 02	27500
12.661	V	Almajd 03	27500
12.661	V	Almajd 04	27500
12.740	V	OMAN TV SPECIAL	5084
12.740	V	OMAN TV CH1	5084
12.740	V	OMAN RADIO FEEDS	5084

C-Band: ARABSAT 2B
30.6 East

Freq GHz	Pol	Channel Name	Symbol rate
3.823	L	AD Sport	27500
3.823	L	Al Ekhbaria	27500
3.823	L	Dubai TV	27500
3.823	L	Ethiopia	27500
3.823	L	IQRAA	27500
3.823	L	OTV	27500
3.823	L	Press TV	27500
3.823	L	Riyadiyadh	27500
3.823	L	Saudi 1	27500
3.823	L	Saudi 2	27500
3.913	R	TVZ-01MR, TVM Plus	8150
3.913	R	TVZ-01MR, TVM 1	8150
4.091	R	RTM_Laayoune	6111
4.097	R	RTM RABAT PN	6111

Europe
ASTRA 5A/1D
31.5 East

Freq GHz	Pol	Channel Name	Symbol rate
●10.995	V	TEMPO -TURK	2222
●11.008	V	Service 1	2170

INTELSAT 802/EUROBIRD 3
33.0 East
EUB003KA

Freq GHz	Pol	Channel Name	Symbol rate
11.175	H	Animal Planet	23600
11.175	H	GTV	23600
11.175	H	Jetix	23600
11.175	H	Planeta	23600
11.175	H	Premium Digital	23600
11.175	H	ART Channel	23600
11.175	H	Estate	23600
11.175	H	FolklorTV	23600
11.175	H	Kanal 3	23600
11.175	H	RE:TV	23600
11.175	H	SC Folk	23600
11.175	H	Zdrave	23600
11.650	V	Turf TV	10098
11.685	H	AKILLI TV	17360
11.685	H	DIGITURK INFO	17360
11.685	H	KANAL A	17360
11.685	H	SAUDI 1 TV	17360
11.685	H	ZDF	17360

EUB003KB

Freq GHz	Pol	Channel Name	Symbol rate
10.978	V	Test	5787
11.098	H	TV8 Mont Blanc	2441
11.110	H	FOX TURK	3124
11.140	V	MTV/MICK WALLONNE	4881
11.165	V	RETE ORO	1666
●11.596	V	BTV	27500
11.596	V	MAP TV	27500
11.596	V	Radio BNL	27500
11.596	V	Radio Carrefour	27500
11.596	V	Radio GS	27500
●11.596	V	Radio IperStanda	27500
●11.555	H	SATNEWSTV 02	6400

East Europe
EUTELSAT SESAT, W4
36.0 East

Freq GHz	Pol	Channel Name	Symbol rate
●12.226	L	Вести	27500
●12.226	L	ДТВ	27500
●12.226	L	Звезда	27500
●12.226	L	Культура	27500
●12.226	L	МузТВ	27500
●12.226	L	НТВ	27500
●12.226	L	Первый	27500
●12.226	L	Петербург 5 канал	27500
●12.226	L	Рен ТВ	27500
●12.226	L	Россия	27500
●12.226	L	Спорт	27500
●12.226	L	ТВЦ	27500
●12.226	L	ТНТ	27500
●12.226	L	ТриколорТВ	27500
12.245	R	BBC World News	27500
12.245	R	Bloomberg	27500
12.245	R	Eurosport 2	27500
12.245	R	Nickelodeon	27500
12.245	R	Russia Today	27500
12.245	R	TV5	27500
12.245	R	World Fashion	27500
12.245	R	Детский мир/Телеклуб	27500
12.245	R	Кинохит	27500
12.245	R	НТВ Мир	27500
12.245	R	Наше новое кино	27500
12.303	L	Боец ТВ	27500
12.303	L	Домашний	27500
12.303	L	Зоо ТВ	27500
12.303	L	Индия ТВ	27500
12.303	L	Кинопоказ	27500
12.303	L	СТС	27500
●12.303	L	Тонус ТВ	27500
12.303	L	7TV	27500
12.303	L	A-ONE	27500
●12.303	L	BRIDGE TV	27500
●12.303	L	Союз	27500
●12.303	L	AvtoRadio	27500
●12.303	L	Energia	27500
●12.303	L	Humor-FM	27500
●12.303	L	Radio Alla	27500
●12.303	L	Воскресение	27500
12.303	L	Новый день	27500
12.322	R	Blue Hustler	27500
12.322	R	REN-TV	27500
12.322	R	Киноклуб	27500
12.322	R	Кто есть кто	27500
12.322	R	Наше кино	27500
12.322	R	Первый	27500
12.322	R	Премьера	27500
12.322	R	Спорт	27500
12.322	R	Футбол	27500
12.322	R	Инфоканал	27500
12.399	R	24ДОК	27500
12.399	R	Fashion TV Network	27500
12.399	R	MTV Russia	27500
12.399	R	Вести	27500
12.399	R	Звезда	27500
12.399	R	Киносоюз	27500
12.399	R	Культура	27500
12.399	R	НТВ	27500
12.399	R	Россия	27500
12.399	R	СТС-Москва	27500
12.399	R	Спас	27500
12.399	R	Спорт on-line	27500
12.399	R	ТНТ	27500
12.399	R	Relax FM	27500
12.399	R	Эхо Москвы	27500
12.418	L	3 канал	27500
12.418	L	Rusiya Al-Yaum	27500
12.418	L	TV SALE	27500
12.418	L	VH-1 Russia	27500
12.418	L	Бибигон	27500
12.418	L	Дом Кино	27500
12.418	L	МИР	27500
12.418	L	Музыка Первого	27500
12.418	L	Первый METEO	27500
12.418	L	Петербург - 5 канал	27500
12.418	L	РБК-ТВ	27500
12.418	L	ТВЦ	27500
12.418	L	Теленяня	27500
12.418	L	Радио Дети FM ТЕСТ	27500
12.456	L	Animal Planet	27500
12.456	L	Discovery	27500
12.456	L	Discovery Travel&Liv	27500
12.456	L	Eurosport	27500
12.456	L	Hallmark	27500
12.456	L	Jetix	27500
12.456	L	Jetix Play	27500
12.456	L	Mezzo (Muzzik)	27500
12.456	L	Music Box	27500
12.456	L	National Geographic	27500
12.456	L	Zone Romantica	27500
12.456	L	ТДК	27500
12.476	R	Cartoon Network/TCM	27500
12.476	R	CNN International	27500
12.476	R	Discovery Science	27500
12.476	R	Discovery World	27500
12.476	R	Euronews	27500
12.476	R	Extreme Sports	27500
●12.476	R	Jim Jam	27500
12.476	R	MCM	27500
12.476	R	MGM int.	27500
12.476	R	MTV Dance	27500
12.476	R	Nat Geo Wild	27500
12.476	R	VH1 Classic	27500
12.476	R	Zone Reality	27500
11.142	H	Ang 1	30000
11.142	H	Ang 2	30000
11.142	H	CCE&F	30000
11.142	H	Insp	30000
11.142	H	KBCTV	30000
11.142	H	KTN	30000
11.142	H	NGwld	30000
11.142	H	NTA_B	30000
11.142	H	NTV	30000
11.142	H	SMax	30000
11.142	H	ZDF	30000
11.142	H	CORO	30000
11.142	H	IDHAA	30000
11.142	H	KBCes	30000
11.142	H	METRO	30000
11.476	H	13RUE	29000
11.476	H	Can+C	29000
11.476	H	CineC	29000
11.476	H	FR2	29000
11.476	H	FR5	29000
11.476	H	Fut (was Arte)	29000
11.476	H	Plan	29000
11.476	H	RTBF	29000
11.476	H	RTL9	29000
11.476	H	Sprt+	29000
11.476	H	Tiji	29000
11.476	H	TRACE	29000
11.559	H	AXN	29000
11.559	H	DsnyP	29000
11.559	H	Globo	29000
11.559	H	MTV P	29000
11.559	H	NGeoP	29000
11.559	H	RTNC	29000
11.559	H	RTPa	29000
11.559	H	SIC I	29000
11.559	H	SIC N	29000
11.559	H	TVC1	29000
11.559	H	TVC2	29000
11.559	H	TVMoz	29000
11.559	H	TVRec	29000
11.559	H	TVUga	29000
11.559	H	Ant 1	29000
●11.727	L	{Empty Name}	27500
●12.072	L	Discovery HD	27500
●12.072	L	Eurosport HD	27500
●12.072	L	HD-Кино	27500
●12.072	L	HD-Life	27500
●12.072	L	HD-Спорт	27500
12.190	L	365 дней	20000
●12.190	L	Teen TV	20000
12.190	L	Автоплюс	20000
12.190	L	Веселое ТВ	20000
12.190	L	Дом Кино	20000
12.190	L	Комедия ТВ	20000
12.190	L	Мать и дитя	20000
12.190	L	Много ТВ	20000
12.190	L	Ночной Клуб	20000
12.190	L	Русская Ночь	20000
12.190	L	Теленяня	20000
12.190	L	Телепутешествия	20000
12.283	R	РТР-Планета	27500
12.283	R	5 канал (Украина)	27500
12.283	R	CCTV4	27500
12.283	R	CCTV9	27500
12.283	R	ICTV	27500
12.283	R	Время: далекое и бли	27500
12.283	R	Мегаспорт	27500
12.283	R	НТН	27500
12.283	R	Парк развлечений	27500
12.283	R	Первый канал. Всемир	27500
12.283	R	Совершенно секретно	27500
12.284	H	go	26480
12.284	H	KAIDy	26480
12.284	H	Mwld	26480
12.284	H	NaGeo	26480
12.284	H	SkyN	26480
12.284	H	SS5	26480
12.284	H	SS7	26480
12.284	H	SSupd	26480
12.284	H	Z D F	26480
12.284	H	ZnRea	26480
12.322	H	AJE	26480
12.322	H	AnimP	26480
12.322	H	Boom	26480
12.322	H	FTV	26480
12.322	H	HIST	26480
12.322	H	Learn	26480
12.322	H	Rhema	26480
12.322	H	SS6	26480
12.322	H	TCM	26480
12.322	H	70s	26480
12.322	H	AdulC	26480
12.322	H	Afric	26480
12.322	H	Beaut	26480
12.322	H	CampR	26480
12.322	H	ClasJ	26480
12.322	H	ClasR	26480
12.322	H	Contl	26480
12.322	H	Dance	26480
12.322	H	FrenC	26480
12.322	H	Gospl	26480
12.322	H	Htrax	26480
12.322	H	LiteC	26480
12.322	H	R'nR	26480
12.322	H	Regga	26480
12.322	H	SmthJ	26480
12.322	H	SoftH	26480
12.322	H	Symph	26480
12.322	H	UBeat	26480
12.322	H	Urban	26480
●12.341	L	Кинорейс 2	27500
●12.341	L	AXN Sci Fi	27500
●12.341	L	Gameland.TV	27500
●12.341	L	Sci Fi	27500
●12.341	L	Universal	27500
●12.341	L	Домашний	27500
●12.341	L	Кинорейс 1	27500
●12.341	L	Комеди ТВ	27500
12.360	H	B4U	26480
12.360	H	C+H	26480
12.360	H	CN	26480
12.360	H	CNN	26480
12.360	H	E !	26480
12.360	H	FR24	26480
12.360	H	LCI	26480
12.360	H	MTV	26480
12.360	H	RTPi	26480
12.360	H	TV5	26480
●12.360	R	{Empty Name}	27500
12.360	H	CII	26480
12.360	H	RFI	26480
12.360	H	TAR	26480
12.360	H	VOA	26480
12.360	H	WRN	26480
●12.380	L	365 дней ТВ	27500
●12.380	L	Авто Плюс	27500
●12.380	L	Боец ТВ	27500
●12.380	L	Закон-ТВ	27500
●12.380	L	Индия ТВ	27500
●12.380	L	Интересное ТВ	27500
●12.380	L	Комедия ТВ	27500
●12.380	L	Кухня ТВ	27500
●12.380	L	Ля-минор ТВ	27500
●12.380	L	МНОГОсерийное ТВ	27500
●12.380	L	Русская ночь	27500
●12.380	L	ТВ Бульвар	27500
12.399	H	ESPN	26480
12.399	H	EuroN	26480
12.399	H	HallM	26480
12.399	H	RAI	26480
12.399	H	SET A	26480
12.399	H	TF6	26480
12.399	H	TSN	26480
12.399	H	ZeeTV	26480
12.399	H	BBC1	26480
12.399	H	BBC2	26480
12.399	H	BBC3	26480
12.399	H	RAI R	26480
12.399	H	Okapi	26480
●12.437	R	NBA TV	27500
●12.437	R	Муз ТВ	27500
●12.437	R	НСТ	27500
●12.437	R	Наш футбол	27500
●12.437	R	Ностальгия	27500
●12.437	R	РТР-Спорт	27500
●12.437	R	Русское Экстремально	27500
●12.437	R	Спорт Классика	27500
●12.437	R	Спорт Союз	27500
●12.437	R	Теннис	27500
12.440	H	Actio	23437
12.440	H	BBC P	23437
12.440	H	BBC W	23437
12.440	H	CRIME	23437
12.440	H	Dsny	23437
12.440	H	MNetE	23437
12.440	H	Mstar	23437
12.440	H	MTV B	23437
12.440	H	OneG	23437
12.440	H	SABCA	23437
12.440	H	SS10	23437
12.440	H	SS2	23437
12.440	H	SSsel	23437
12.440	H	ITest	23437
12.476	H	AfMag	26040
12.476	H	BBC F	26040
12.476	H	ChO	26040
12.476	H	Disc	26040
12.476	H	MM1	26040
12.476	H	MM2	26040
12.476	H	MNetW	26040
12.476	H	Serie	26040
12.476	H	SS1	26040
12.476	H	SS3	26040
12.476	H	SSmax	26040
12.476	H	TBN	26040

Africa
EUTELSAT SESAT, W4
36.1 East
EUT0W4AF

Freq GHz	Pol	Channel Name	Symbol rate
12.284	H	AMag+	26480
12.284	H	go	26480
12.284	H	KAIDy	26480
12.284	H	Mwld	26480
12.284	H	NaGeo	26480
12.284	H	SkyN	26480
12.284	H	SS5	26480
12.284	H	SS7	26480
12.284	H	SSupd	26480
12.284	H	ZnRea	26480
●12.284	H	Fut_R	26480
12.360	H	B4U	26480
12.360	H	C+H	26480
12.360	H	CN	26480
12.360	H	CNN	26480
12.360	H	E !	26480
12.360	H	FR24	26480
12.360	H	MTV	26480
12.360	H	RTPi	26480
12.360	H	TV5	26480
12.360	H	CII	26480
12.360	H	RFI	26480
12.360	H	TAR	26480
12.360	H	VOA	26480
12.360	H	WRN	26480
12.399	H	ESPN	26480
12.399	H	EuroN	26480
12.399	H	HallM	26480
12.399	H	RAI	26480
12.399	H	SET A	26480
12.399	H	TF6	26480
12.399	H	TSN	26480
12.399	H	ZeeTV	26480
12.399	H	BBC1	26480
12.399	H	BBC2	26480
12.399	H	BBC3	26480
12.399	H	RAI R	26480
12.399	H	Okapi	26480
12.440	H	Actio	23437
12.440	H	BBC E	23437
12.440	H	BBC W	23437
12.440	H	CRIME	23437
12.440	H	Dsny	23437
12.440	H	Learn	23437
12.440	H	MNetE	23437
12.440	H	Mstar	23437
12.440	H	MTV B	23437
12.440	H	OneG	23437
12.440	H	SS2	23437
12.440	H	SSsel	23437
12.440	H	TCM	23437
12.440	H	ITest	23437
●12.476	H	AMag	26040
●12.476	H	BBC L	26040
●12.476	H	ChO	26040
●12.476	H	Disc	26040
●12.476	H	MM1	26040
●12.476	H	MM2	26040
●12.476	H	MNetW	26040
●12.476	H	Serie	26040
●12.476	H	SS1	26040
●12.476	H	SS3	26040
●12.476	H	SSmax	26040
●12.476	H	TBN	26040
●11.142	H	Ang 1	30000
●11.142	H	Ang 2	30000
●11.142	H	CCE&F	30000
●11.142	H	FUT	30000
●11.142	H	Insp	30000
●11.142	H	KBCTV	30000
●11.142	H	KTN	30000
●11.142	H	NGwld	30000
●11.142	H	NTA_B	30000
●11.142	H	NTV	30000
●11.142	H	SSTv	30000
●11.142	H	TBC1	30000
●11.142	H	ZDF	30000
●11.142	H	CORO	30000
●11.142	H	Easy	30000
●11.142	H	IDHAA	30000
●11.142	H	KBCes	30000
●11.142	H	METRO	30000
●11.476	H	13RUE	29000
●11.476	H	Can+C	29000
●11.476	H	CineC	29000
●11.476	H	FR2	29000
●11.476	H	FR5	29000
●11.476	H	Fut8	29000
●11.476	H	LCI	29000
●11.476	H	Plan	29000
●11.476	H	RTBF	29000
●11.476	H	RTL9	29000
●11.476	H	Sprt+	29000
●11.476	H	Tiji	29000
●11.476	H	TRACE	29000
11.507	V	BBC C	30000
11.507	V	BBC K	30000
11.507	V	ESPNC	30000
●11.507	V	GTV_B	30000
●11.507	V	NTVU	30000
11.507	V	PANDA	30000
11.507	V	S MAX	30000
11.507	V	SMAX2	30000

Europe
EUTELSAT SESAT, W4
36.2 East
EUTSE1EU

Freq GHz	Pol	Channel Name	Symbol rate
11.109	V	ARM 1	3418
11.109	V	RD1 Radio ARMENIA	3418
11.639	V	IMN 3	2170
11.639	V	IMN 3 FM	2170
11.645	V	AL-IRAQIA ATYAF	2180
11.645	V	ALFORqan	2180
11.648	V	AL-IRAQIA SPORT	2532
12.511	H	CASPIO-NET	4340
12.516	V	MTA International	10370
12.516	V	Telemedia 1	10370
12.516	V	Telemedia 5	10370
12.516	V	Telemedia 8	10370
12.516	V	Telemedia 9	10370
12.516	V	Telemedia Radio 1	10370
●12.521	H	LIDER TV AZERBAIJ	4340
12.532	H	AZTV-	4340
12.541	H	LEONARDO WORLD	4340
12.545	H	Medi1SAT	2734
12.558	V	EURONEWS-AFRICA	8138
12.558	V	EURONEWS-FRANCE	8138
12.611	V	JSC Contribution	5787
12.625	V	ZAGROS	2668
11.633	V	Fox Crime	5787
11.633	V	Fox Life	5787
11.642	V	AL-IRAQIA ATYAF	2175
11.642	V	IMN 3	2175
11.642	V	IMN 3 FM	2175
11.680	H	TBC 1	5000
12.652	V	Service 1	2480

C-Band: PAKSAT 1
38.0 East

Freq GHz	Pol	Channel Name	Symbol rate
● 3.788	H	RUNG TV	2850
● 3.797	H	OXYEGNE	3255
● 3.815	H	Program 1	4666
● 3.815	H	Program 2	4666
● 3.864	H	MasalaTv	3800
● 3.871	H	SAMAA TV	2170
● 3.874	H	Tandberg Service	2170
● 3.886	H	PUNJAB TV	6200
● 3.886	H	STAR ASIA	6200
● 3.945	H	Channel 11	4700
● 3.951	H	HAQTV-NETWORK	3240
● 3.957	H	Rohi	3255
● 3.968	H	ARY FASHION	11481
● 3.968	H	ARY VH1	11481
● 3.968	H	ARY ZAUQ	11481
● 3.968	H	FEED	11481
● 3.975	H	QTA	2170
● 4.031	H	SUNBIZ	3255
● 4.035	H	PTV.BOLAN	2894
● 4.056	H	ARY MADINA	3255
● 4.104	H	Service 2	3000
● 4.110	H	BUSINESS PLUS	3255
● 4.115	H	UPCOM	3333
● 4.120	H	INDUS TV NETWORK	3358
3.829	V	VTV1	12000
3.829	V	VTV2	12000
3.829	V	VTV3	12000
3.829	V	VTV4	12000
3.895	V	VALUE TV	2850
● 3.904	V	Service 2	3253
3.912	V	CITY NEWS 042	3255
4.145	V	DVB-Server	6000

Europe
HELLAS SAT 2
39.0 East
HEL002F1

Freq GHz	Pol	Channel Name	Symbol rate
12.524	H	Animal Planet	30000
12.524	V	AXN SCI FI	30000
●12.524	H	BNT 1	30000
12.524	H	bTV	30000
12.524	V	Cinemax 2	30000
12.524	H	Diema	30000
12.524	H	Diema 2	30000
12.524	V	Discovery	30000
12.524	H	Discovery Channel	30000
12.524	V	Euforia	30000
12.524	V	Eurosport 2	30000
12.524	H	HBO	30000
12.524	V	HBO Comedy	30000
12.524	V	Kiss TV	30000
12.524	V	Money Channel	30000
12.524	H	National Geographic	30000
12.524	H	Nova TV	30000
12.524	H	Planeta TV	30000
12.524	H	Private Spice	30000
12.524	V	Science	30000
12.524	V	Sport Klub	30000
12.524	H	TV7	30000
12.524	V	TVR 1	30000
12.524	V	TVR 2	30000
12.524	V	TVR Cultural	30000
12.524	V	VH 1 Classic	30000
12.524	H	The Voice	30000
12.559	H	BBT	20000
12.559	H	CNN	20000
12.559	H	Explorer/Playboy	20000
12.559	H	Fashion TV/FreeX T	20000
12.559	H	Jetix	20000
12.559	H	Perviy Kanal	20000
12.559	H	Ring TV	20000
12.559	H	Zone Reality	20000
12.559	H	Boomerang	20000
12.559	H	FAN TV	20000
12.559	H	Folklor TV	20000
12.559	H	K8	20000
12.559	H	RTVi	20000
●12.559	H	Sport7	20000
12.565	V	Acasa TV	30000
12.565	V	Antena 1	30000
12.565	V	Antena 2	30000
12.565	V	Antena 3	30000
12.565	V	AXN	30000
12.565	V	B1	30000
12.565	V	Favorit TV	30000
12.565	V	Minimax/Anime	30000
12.565	V	N24	30000
12.565	V	National TV	30000
12.565	V	OTV	30000
12.565	V	Prima TV	30000
12.565	V	PRO TV	30000
12.565	V	PRO TV INTL.	30000
12.565	V	Realitatea TV	30000
12.565	V	Sport.ro	30000
12.565	V	X-Dream TV	30000
12.577	H	Film Plus HD	10000
12.577	H	Bulsatcom HD	10000
12.606	H	4E HELLAS ORTHODO	30000
12.606	H	902 TV	30000
12.606	H	CYPRUS SAT	30000
12.606	H	ERT world	30000
12.606	H	KANALI 10	30000
12.606	H	SGC-SGI PRESS ROO	30000
12.606	H	SKAI	30000
12.606	H	TELEASTY	30000
12.606	H	VOULI	30000
12.606	H	902 FM	30000
12.606	H	ANGEL RADIO	30000
12.606	H	ANT1	30000
12.606	H	ATHINA 9,84	30000
12.606	H	BEST 92,6	30000
12.606	H	CyBc A	30000
12.606	H	CyBc B	30000
12.606	H	DIAVLOS1	30000
12.606	H	EKK. ELLADOS	30000
12.606	H	ERA-1	30000
12.606	H	ERA-4	30000
12.606	H	ERA-5	30000
12.606	H	ERT3 102 Makedonia	30000
12.606	H	EXTRA SPORT	30000
12.606	H	FLASH	30000
12.606	H	FM 100	30000
12.606	H	GALAXY	30000
12.606	H	HPEIROS 94,5	30000
12.606	H	John Greek	30000
12.606	H	Metropolis	30000
12.606	H	NITRO	30000
12.606	H	OASIS	30000
12.606	H	PEIRAIKI EKKLISIA	30000
12.606	H	RADIO THESSALONIK	30000
12.606	H	RADIOASTY	30000
12.606	H	RYTHMOS	30000
12.606	H	SFERA	30000
12.606	H	SKAI RADIO	30000
12.606	H	SPORT FM	30000
12.606	H	TOP FM RODOS	30000
12.606	H	TRITO	30000
12.647	V	AXN CRIME	30000
●12.647	H	BNT Sat	30000
12.647	V	Boomerang	30000
12.647	V	Cartoon Net/TCM	30000
12.647	V	Cartoon Network	30000
12.647	V	CNN Intern.	30000
12.647	H	Discovery Science	30000
12.647	H	Discovery Travel & L	30000
12.647	H	Discovery World	30000
12.647	H	Eurocom BG	30000
12.647	V	Euronews	30000
12.647	H	Film Plus	30000
12.647	V	Free-X TV	30000
12.647	V	Free-X TV 2	30000
12.647	H	GTV	30000
12.647	H	Hallmark	30000
12.647	H	Hustler TV	30000
12.647	V	Kanal D	30000
12.647	V	MTV 2	30000
12.647	V	MTV Dance	30000
12.647	H	MTV Romania	30000
12.647	V	Private Spice	30000
12.647	H	Super 7	30000
12.647	V	TCM	30000
12.647	V	Travel&Living	30000
12.647	H	TV Evropa	30000
●12.647	H	TV Plus	30000
12.647	H	VH1	30000
12.647	H	Viasat History	30000
12.647	H	Zone Club	30000
12.647	H	Kanal 3	30000
12.647	H	MM	30000
12.647	H	Planeta Folk TV	30000
12.647	H	Skat TV	30000
12.647	H	BG Radio	30000
12.647	H	Darik Radio	30000
12.647	H	NRJ	30000
12.647	H	Radio 1 Rock	30000
12.647	H	Tangra MegaRock	30000
12.688	H	AXN	30000
12.688	H	AXN Crime	30000
12.688	H	AXN Sci Fi	30000
12.688	H	Cinemax	30000
12.688	H	City TV	30000
12.688	H	Diema Family	30000
12.688	V	Discovery World	30000
12.688	V	Eurosport	30000
12.688	V	Eurosport 2	30000
12.688	V	Extreme Sports	30000
12.688	V	Fashion TV	30000
12.688	H	FOX Crime	30000
12.688	H	FOX Life	30000
12.688	H	Hallmark	30000
12.688	V	HBO	30000
12.688	H	HBO Comedy	30000
12.688	H	Hobby TV	30000
12.688	H	MTV Europe	30000
12.688	V	Nat. Geographic	30000
12.688	V	PRO Cinema	30000
12.688	V	TELESPORT	30000
12.688	V	TRACE	30000
12.688	V	Travel Channel	30000
12.688	H	TV1000	30000
12.688	H	TV2	30000
12.688	V	TV5 Monde	30000
12.688	V	VH 1	30000
12.688	V	Taraf	30000
12.688	H	radio Atlantic	30000
12.688	H	radio OMV	30000
12.688	H	radio Veselina E	30000
12.688	H	radio Veselina N	30000
12.688	H	radio Veselina W	30000
12.688	H	radio Vitosha E	30000
12.688	H	radio Vitosha W	30000
12.688	H	The Voice	30000
12.717	H	Hellas SD Test2	7720
12.717	H	Hellas HD Test1	7720
12.729	V	Baby TV	30000
12.729	V	Jetix	30000
12.729	V	KidsCo	30000
12.729	V	Movies 24	30000
12.729	V	Music Channel	30000
12.729	V	Nickelodeon	30000
12.729	V	Trinitas TV	30000
●12.729	V	TVR 3	30000
●12.729	V	TVR Info	30000
●12.729	V	UTV	30000
12.729	V	▯	30000
12.729	V	Etno	30000
12.729	V	Euro Channel	30000
12.647	V	Travel&Living	

HEL002F2

Freq GHz	Pol	Channel Name	Symbol rate
10.956	V	GNET	4123
10.956	V	MAD TV BULGARIA	4123
10.956	V	MAD RADIO	4123
11.037	V	PTV	5210
11.099	V	Reform TV	1478
11.140	V	Calabria	1425
12.715	V	test	6654

HEL002ME

Freq GHz	Pol	Channel Name	Symbol rate
11.512	H	FEED	30000
11.512	H	HTH	30000
11.512	H	KDRTRK	30000
11.512	H	KRT	30000
11.512	H	KULTURA	30000
11.512	H	TV BITA	30000
11.512	H	UBK	30000
11.512	H	UTR	30000
11.512	H	ZAGRAVA	30000
11.512	H	RUI2	30000
11.512	H	StudioChocolate	30000
11.512	H	StudioChocolate_2	30000
11.512	H	UR1	30000
11.512	H	UR2	30000
11.512	H	UR3	30000
10.969	V	MED OFFICE	2893
12.716	H	Hellas SD Test2	7720
12.716	H	Hellas HD Test1	7720
12.726	V	Baby TV	30000
12.726	V	Jetix	30000
12.726	V	KidsCo	30000
12.726	V	Movies 24	30000
12.726	V	Music Channel	30000
12.726	V	Nickelodeon	30000
12.726	V	Trinitas TV	30000
●12.726	V	TVR 3	30000
●12.726	V	TVR Info	30000
●12.726	V	UTV	30000
12.726	V	▯	30000
12.726	V	Etno	30000
12.726	V	Euro Channel	30000

South Africa
HELLAS SAT 2
39.1 East
HEL002S1

Freq GHz	Pol	Channel Name	Symbol rate
12.524	H	Extreme Sports	30000
12.524	H	Audi	30000
12.524	H	Boogaloos	30000
12.524	H	BYU TV	30000
12.524	H	Catwalk Extreme	30000
12.524	V	Checkers Checkout	30000
12.524	V	Christian TV	30000
12.524	H	Education - Primary	30000
12.524	V	Education - Secondar	30000
12.524	V	Education - Tertiary	30000
12.524	H	Fashion TV	30000
12.524	V	iPop TV	30000
12.524	V	Juice TV	30000
12.524	V	Lesotho Tourism	30000
12.524	V	LG	30000
12.524	V	Movie channel	30000
12.524	H	Muslim TV	30000
12.524	H	Nissan	30000
12.524	V	Primi TV	30000
12.524	H	Rivers Church	30000
12.524	H	Salon TV - Hair	30000
12.524	H	Samsung	30000
12.524	H	Spar TV	30000
12.524	V	TWC Channel	30000
12.524	H	Xleague.TV	30000
12.524	H	Capitol Radio 604	30000
12.524	V	Radio 10	30000
12.524	V	Radio 2	30000
12.524	V	Radio 3	30000
12.524	V	Radio 4	30000
12.524	V	Radio 5	30000
12.524	H	Radio 6	30000
12.524	V	Radio 7	30000
12.524	V	Radio 8	30000
12.524	V	Radio 9	30000

EXPRESS AM1
40.0 East

Freq GHz	Pol	Channel Name	Symbol rate
10.967	V	1MUZ	20000
10.967	V	5 Kanal	20000
10.967	V	7 TV	20000
10.967	V	Dom Kino	20000
10.967	V	Orbita-4	20000
10.967	V	Russia Double-4	20000
10.967	V	Telecafe	20000
10.967	V	Telenyanya	20000
10.967	V	TV Centr	20000
10.967	V	Vesti	20000
10.967	V	Vremya	20000
10.967	V	Radio Rossii D4	20000
10.967	V	Yunost	20000
10.995	V	1 Kanal	20000
10.995	V	5 Kanal	20000
10.995	V	Home	20000
10.995	V	Kultura	20000
10.995	V	MuzTV	20000
10.995	V	RTR Sport	20000
10.995	V	Russia	20000
10.995	V	STS	20000
10.995	V	TNT	20000
10.995	V	TNV	20000
10.995	V	TV Centr	20000
10.995	V	Love Radio	20000
10.995	V	Mayak	20000
10.995	V	Novy Vek	20000
10.995	V	Radio Kultura	20000
10.995	V	Radio Rossi	20000
11.097	H	TV	4000
11.097	H	FM	4000
11.159	V	SPACE TV AZERBAIJ	3333
11.679	H	NNTV_plus_RIC	7596
11.679	H	vesty_privolghe	7596

Europe, Russia
C-Band: EXPRESS AM1
40.1 East

Freq GHz	Pol	Channel Name	Symbol rate
3.675	R	1kanalR+Mayak	33483
3.675	R	7TV_Podmoskov'e	33483
3.675	R	Dubl-4+RRD4	33483
3.675	R	Orbita-4R+Yunost	33483
3.675	R	Rossiya+RR	33483
3.675	R	Kultura+Vesti-FM	33483
3.675	R	Kultura-3	33483
3.675	R	TRK5_MSK	33483
3.675	R	Radio Al-10	33483
3.675	R	Radio Al-11	33483
3.675	R	Radio Al-3_Al-9	33483
3.675	R	Radio Al-8_Al-5	33483
3.675	R	Radio CH12	33483
3.675	R	Radio CH13	33483
3.675	R	Radio Mayak	33483
3.675	R	Radio Podmoskov'e	33483
3.675	R	Radio Rossii	33483
3.675	R	Radio RossiiD4	33483
● 3.675	R	Radio RUVR-10	33483
● 3.675	R	Radio RUVR-9	33483
3.675	R	Radio Vesti-FM	33483
3.675	R	Radio Yunost	33483
3.740	R	GTRK VOLOGDA	3230
3.771	R	SCOPUS-NET-TECH	3330
3.865	R	RGVK-DAGESTAN	4000
3.873	R	VAYNAH TV	4340
3.933	R	Kirov	3300
4.059	R	GTRK ELISTA	3230
4.062	R	GTRK Volgograd TRV	2772
4.107	R	KRT	3215
4.112	R	GTRK-KURSK	4285
4.118	R	Tv43Region	3300
4.125	R	Planeta-1	3215
4.128	R	TV Kostroma	3230
4.131	R	GTRK Kostroma	3219
4.135	R	GTRK Alania	3240
4.142	R	GTRK Orenburg	3219
4.143	R	TB KBR	2003
4.140	R	GTRK ORENBURG	3230

TURKSAT 2A, 3A
42.0 East
TUR01CWB

Freq GHz	Pol	Channel Name	Symbol rate
10.968	V	BRTK KKTC	4556
10.981	V	D MAX	10800
10.981	V	D PLUS	10800
10.981	V	KIDSCO	10800
10.981	V	LULI	10800
10.981	V	TV DERSHANE	10800
10.981	V	WORLD FASHION	10800
11.007	V	OLAY TV & FM	2950
11.011	V	KANAL 35	2125
11.015	V	FASHIONONE	2050
11.018	V	AKSU TV	2150
11.023	V	HABUR	4444
11.023	V	Dating TV	4444
11.023	V	Finest	4444
11.029	V	TV 58	2400
11.136	V	ATA TV	2170
11.143	V	BASKENT-AB TV	2200
11.159	V	RUMELI TV	2596
11.162	V	MPL TV	2222
11.162	V	MPL RADYO	2222
11.166	V	BENGUTURK TV	2960
11.177	V	VATAN TV	2200

TUR02AKE

Freq GHz	Pol	Channel Name	Symbol rate
11.734	H	TURKSAT TANITIM	3291
11.734	H	POLIS RADYOSU	3291
11.739	H	KANALTÜRK	3125
11.739	H	KANALTÜRK RADYO	3125
●11.743	H	TVNET	2222
11.743	H	LALEGUL FM	2222
11.748	H	KANAL 7	4444
11.748	H	RADYO 7	4444
11.748	H	RADYO 7	4444
11.753	H	AVRASYA TV	3000
11.760	H	ALEM FM	5925
11.760	H	SHOW TV	5925
11.775	H	ALJAZEER	2222
11.794	H	STAR TV	5632
11.800	H	ANS GROUP	2400
11.892	H	CNBC-e	12800
11.892	H	e2	12800

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Freq GHz	Pol	Channel Name	Symbol rate
11.892	H	**NTV**	12800
11.892	H	**NTV Spor**	12800
11.892	H	**Capital Radio**	12800
11.892	H	**NTV Radyo**	12800
11.892	H	**Radyo Eksen**	12800
11.905	H	**KANAL D**	6666
11.905	H	**SMART HITS**	6666
11.905	H	**SMART JAZZ**	6666
11.905	H	**SMART OLDIES**	6666
11.905	H	**SMART ROCK**	6666
11.905	H	**SMART SLOW**	6666
11.905	H	**iRADYO_PORTAL**	6666
11.905	H	**RADYO D**	6666
11.912	H	**AYNA TV**	3333
● 11.970	H	**EUROSPORT HD**	17900
● 11.970	H	**HDTV SMART**	17900
● 11.970	H	**DISCOVERY HD**	17900
● 11.970	H	**KANAL D HD**	17900
11.984	H	**Nickelodeon**	4000
11.984	H	**MTV TURKIYE**	4000
12.002	H	**atv**	4800
12.008	H	**KANAL 1**	4400
12.008	H	**Intercom**	4400
12.008	H	**MARMARA RADYO**	4400
12.015	H	**TGRT Haber**	4800
12.015	H	**TGRT Pazarlama**	4800
12.015	H	**TGRT FM**	4800
12.022	H	**FOX**	5380
12.028	H	**samanyolu.tv**	4557
12.028	H	**Burc FM**	4557
12.028	H	**Dunya Radyo**	4557
12.028	H	**SHaber Radyo**	4557
12.127	H	**Blinko TV**	7400
12.127	H	**Denge TV**	7400
12.127	H	**Ekin TV**	7400
12.127	H	**Esin TV**	7400
12.127	H	**ILAN TV**	7400
12.127	H	**IMAN TV**	7400
12.127	H	**iPlay**	7400
12.127	H	**Kanal 6**	7400
12.135	H	**ASTRO**	3703
12.135	H	**FASIL**	3703
12.140	H	**ALJAZEER**	2222

TUR02AKW

Freq GHz	Pol	Channel Name	Symbol rate
11.712	V	**SES TV**	2963
11.717	V	**HILAL TV**	2222
11.717	V	**GÖZYAŞI FM**	2222
11.717	V	**SEYR FM**	2222
11.729	V	**ACTIONMAX**	15555
11.729	V	**INTIMACY**	15555
11.729	V	**JOJO**	15555
11.729	V	**LIG TV**	15555
11.729	V	**TÜRKMAX**	15555
11.729	V	**İZ**	15555
● 11.729	V	**ASK TV**	15555
11.729	V	**DIGI**	15555
● 11.729	V	**MAX TV**	15555
11.729	V	**MASAL RADYO**	15555
11.729	V	**POWER FM**	15555
11.729	V	**POWERTURK**	15555
11.729	V	**TEST int**	15555
11.729	V	**Test int2**	15555
11.743	V	**CAY TV**	2222
11.753	V	**24**	3900
11.757	V	**CEM TV**	2962
11.757	V	**CEM RADYO 96.4**	2962
11.762	V	**SU TV**	2155
11.766	V	**KaradenizTV**	2222
11.766	V	**KaradenizFM**	2222
11.770	V	**DTV**	2177
11.773	V	**Dost TV**	2420
11.777	V	**TGRT EU**	3150
11.777	V	**TGRT FM**	3150
11.781	V	**FOXTURK**	2815
● 11.830	V	**TV8**	6666
11.839	V	**TURKMENELI TV**	4444
11.846	V	**6News**	3333
11.846	V	**TV5**	3333
11.846	V	**Radyo_As**	3333
11.852	V	**_CLUP_TV**	4444
11.852	V	**_Taraftar_TV**	4444
● 11.852	V	**AKILLI_TV**	4444
11.852	V	**Smart**	4444
● 11.858	V	**TATLISES TV**	2400
● 11.858	V	**M.akdeniz**	2400
● 11.858	V	**M.ege**	2400
● 11.858	V	**Radyo_Mega**	2400
● 11.858	V	**Radyo_Vatan**	2400
11.867	V	**KANAL B**	4444
11.874	V	**MELTEM TV**	3400
11.874	V	**ÖZLEM TV**	3400
11.874	V	**MEDYA FM**	3400
11.874	V	**Meltem Radyo**	3400
11.874	V	**RADYO 2000**	3400
11.874	V	**RADYO ILAC**	3400
11.877	V	**KADIRGA TV**	3750
11.877	V	**MARMARA TV**	3750
11.877	V	**MESAJ TV**	3750
11.882	V	**Berat**	2965
11.882	V	**Halay**	2965
11.882	V	**Kanal Avrupa**	2965
11.887	V	**Expo_Channel**	3333
11.887	V	**NATURAL_LIFE_CH**	3333
11.892	V	**AVRASYA-TV**	2960
11.892	V	**Radyo *****	2960
11.896	V	**SAMSUN AKS TV**	2222
11.919	V	**TRT 1**	24444
11.919	V	**TRT 2**	24444
11.919	V	**TRT 3**	24444
11.919	V	**TRT 4**	24444
11.919	V	**TRT INT**	24444
11.919	V	**Meteorolojinin Sesi**	24444
11.919	V	**RADYO 1**	24444
11.919	V	**RADYO 2 (TRT FM)**	24444
11.919	V	**RADYO 3**	24444
11.919	V	**RADYO 4**	24444
11.919	V	**Radyo GAP**	24444
11.919	V	**TSR Turkce**	24444
11.919	V	**Turizm Radyosu**	24444
11.919	V	**VOT East**	24444
11.919	V	**VOT West**	24444
11.919	V	**VOT World**	24444
11.940	V	**TRT 1**	24444
11.940	V	**TRT 2**	24444
11.940	V	**TRT 3**	24444
11.940	V	**TRT 4**	24444
11.940	V	**TRT INT**	24444
11.940	V	**Meteorolojinin Sesi**	24444
11.940	V	**RADYO 1**	24444
11.940	V	**RADYO 2 (TRT FM)**	24444
11.940	V	**RADYO 3**	24444
11.940	V	**RADYO 4**	24444
11.940	V	**Radyo GAP**	24444
11.940	V	**TSR Turkce**	24444
11.940	V	**Turizm Radyosu**	24444
11.940	V	**VOT East**	24444
11.940	V	**VOT West**	24444
11.940	V	**VOT World**	24444
11.951	V	**MEHTAP TV**	8800
11.951	V	**S HABER**	8800
11.951	V	**SAMANYOLU TV**	8800
11.951	V	**YUMURCAK TV**	8800
11.951	V	**INTERCOM**	8800
11.951	V	**AKRA FM**	8800
11.951	V	**BURC FM**	8800
11.951	V	**DUNYA RADIO**	8800
11.951	V	**MARMARA FM**	8800
11.951	V	**MORAL FM**	8800
11.951	V	**RADYO 15**	8800
11.959	V	**KIBRIS GENC TV**	2960
11.959	V	**MMC TURK**	2960
11.959	V	**CYS FEED**	2960
11.959	V	**FIRST FM**	2960
11.963	V	**Service 2**	2300
11.973	V	**KONTV**	2240
11.996	V	**AS10**	26000
11.996	V	**DEM**	26000
11.996	V	**DugunTV**	26000
11.996	V	**Genc TV**	26000
11.996	V	**GERCEK TV**	26000
11.996	V	**HAYAT TV**	26000
11.996	V	**KANAL 12**	26000
11.996	V	**KANAL T**	26000
11.996	V	**M-ON**	26000
11.996	V	**Manolya.TV**	26000
11.996	V	**MAVI KARADENIZ**	26000
11.996	V	**Tempo TV**	26000
11.996	V	**TURKSHOW**	26000
11.996	V	**TV 5 Int**	26000
11.996	V	**TÜRKSHOP**	26000
11.996	V	**Yol TV**	26000
11.996	V	**DEM RADYO**	26000
11.996	V	**KUPE FM**	26000
11.996	V	**Metro FM**	26000
11.996	V	**Süper FM**	26000
12.126	V	**KANAL7 INT**	6666
12.126	V	**tvt**	6666
12.126	V	**ULKE TV**	6666
12.126	V	**,,,,**	6666
12.126	V	**;**	6666
12.126	V	**RADYO 7**	6666
12.134	V	**BUSINESS**	3333
12.140	V	**NUMBER ONE TV**	4444
12.140	V	**TURKSAT TANITIM**	4444
12.140	V	**NUMBER ONE FM**	4444
12.140	V	**POLIS RADYOSU**	4444
12.140	V	**RADYO KLAS**	4444
12.140	V	**RADYO MYDONOSE**	4444
12.692	H	**AZAD AZERBAYCAN**	2800

TUR02AS1

Freq GHz	Pol	Channel Name	Symbol rate
12.513	H	**KANAL A**	4400
12.513	H	**Dunya Radyo**	4400
12.513	H	**Radyo A**	4400
12.519	H	**SHOPPING**	3125
12.524	H	**SKYTURK**	4250
12.530	H	**SHOW TURK**	4444
12.536	H	**HALK TV**	2962
12.540	H	**KANAL BIZ**	3125
12.590	V	**MZE & 1ST .**	3000
12.596	V	**Rustavi 2**	2500
12.605	V	**georgian tv**	2962
12.614	V	**FLASH TV**	3333
12.633	V	**atv**	4800
12.633	V	**TURKC**	4800
12.633	V	**.**	4800
12.633	V	**RADIO CITY**	4800
12.636	H	**Buket TV**	4800
12.636	H	**Kral TV**	4800
12.636	H	**Kral FM**	4800
● 12.638	V	**EGE TV**	2400
12.646	V	**KACKAR TV**	3332
12.646	V	**TEST**	3332
12.646	V	**YILDIZ TV**	3332
12.646	V	**KACKAR FM**	3332
12.646	V	**RIZENIN SESI**	3332
12.646	V	**TEST**	3332
12.652	H	**D SPOR**	22500
12.652	H	**D YEŞİLÇAM**	22500
12.652	H	**D ÇOCUK**	22500
12.652	H	**FANTASY**	22500
12.652	H	**FUTBOL SMART**	22500
12.652	H	**LOCA1**	22500
12.652	H	**LOCA2**	22500
12.652	H	**LOCA3**	22500
12.652	H	**YEŞİLÇAM XXX**	22500
12.652	H	**D SHOPPING**	22500
12.652	H	**D-SMART PROMO**	22500
● 12.652	H	**KRAL AVRUPA**	22500
12.652	H	**T.A.Y. TV**	22500
12.661	V	**D MAX**	9150
12.661	V	**DHA FEED**	9150
12.661	V	**MARC DORCEL**	9150
12.661	V	**PEMBE SMART**	9150
12.673	H	**KANAL 67**	2222
12.680	H	**Cine5**	8888
12.680	H	**Gala**	8888
12.680	H	**Supersport**	8888
12.680	H	**Viva**	8888
12.680	H	**.**	8888
12.680	H	**Nostalji TURK**	8888
12.680	H	**Radyo Viva**	8888
12.680	H	**Radyo5**	8888
12.680	H	**Show Radyo**	8888
12.688	H	**A Plus Extra**	2400
12.688	H	**A Plus Live**	2400
12.688	H	**Kanal Market**	2400
12.696	H	**KRAL KARADENIZ**	2222
12.699	H	**EGE TV**	2400
12.702	H	**ULUSAL TV**	2285
12.702	H	**YON FM**	2285
● 12.717	V	**NBA TV**	5925
● 12.717	V	**NTV BATI**	5925
12.717	V	**Billboard**	5925
12.717	V	**Intercomm**	5925
12.717	V	**N 101**	5925
12.731	V	**TÜRKSAT TANITIM**	3333
● 10.960	H	**MEHTAP TV**	13000
● 10.960	H	**S HABER**	13000
● 10.960	H	**SAMANYOLU TV**	13000
● 10.960	H	**YUMURCAK TV**	13000
● 10.960	H	**INTERCOM**	13000
● 10.960	H	**AKRA FM**	13000
● 10.960	H	**BURC FM**	13000
● 10.960	H	**DUNYA RADIO**	13000
● 10.960	H	**MARMARA FM**	13000
● 10.960	H	**MORAL FM**	13000
● 10.960	H	**RADYO 15**	13000
10.968	V	**BRTK KKTC**	4557
● 10.970	V	**BEBEĞİM TV**	30000
● 10.970	V	**BEYAZPERDE**	30000
● 10.970	H	**CNN INTERNATIONAL**	30000
10.970	H	**COOL SMART**	30000
● 10.970	V	**D MAX**	30000
10.970	H	**D PLUS**	30000
● 10.970	V	**D SPOR**	30000
10.970	H	**DOG TV**	30000
10.970	H	**ESPN CLASSIC**	30000
● 10.970	V	**FOOTSCHOOL**	30000
● 10.970	V	**FUTBOLSMART**	30000
10.970	H	**FX**	30000
10.970	H	**KIDSCO**	30000
10.970	H	**LULI**	30000
10.970	H	**NASN**	30000
● 10.970	V	**STYLE NETWORK**	30000
10.970	H	**SİNEMA TV**	30000
10.970	H	**SİNEMA TV 2**	30000
● 10.970	V	**SİNEMA TV AİLE**	30000
● 10.970	V	**WORLD FASHION**	30000
10.970	H	**Z TV**	30000
● 10.970	V	**T.A.Y. TV**	30000
● 10.970	V	**{Empty}**	30000
10.980	V	**D MAX**	14150
10.980	V	**D PLUS**	14150
10.980	V	**KIDSCO**	14150
10.980	V	**LULI**	14150
10.980	V	**NIKE**	14150
10.980	V	**WORLD FASHION**	14150
10.980	V	**FX**	14150
10.980	V	**Z TV**	14150
10.999	V	**GAZIANTEP OLAY**	2222
● 11.003	V	**KANAL 55**	2175
● 11.012	V	**D YEŞİLÇAM**	30000
● 11.012	V	**D ÇOCUK**	30000
● 11.012	V	**DA VINCI LEARNING**	30000
● 11.012	V	**FANTASY**	30000
● 11.012	V	**FX**	30000
● 11.012	V	**LOCA1**	30000
● 11.012	V	**LOCA2**	30000
● 11.012	V	**LOCA3**	30000
● 11.012	V	**MARC DORCEL**	30000
● 11.012	V	**MOVIES 24**	30000
● 11.012	V	**MOVIES 24 EROTICA**	30000
● 11.012	V	**MOVIESMART**	30000
● 11.012	V	**PEMBESMART**	30000
● 11.012	V	**YEŞİLÇAM XXX**	30000
● 11.012	V	**D-SMART PROMO**	30000
● 11.012	V	**Z TV**	30000
● 11.012	V	**SMART HITS**	30000
● 11.012	V	**SMART JAZZ**	30000
● 11.012	V	**SMART OLDIES**	30000
● 11.012	V	**SMART ROCK**	30000
● 11.012	V	**SMART SLOW**	30000
● 11.014	V	**FASHIONONE**	2050
● 11.016	V	**D YEŞİLÇAM**	30000
● 11.016	V	**D ÇOCUK**	30000
● 11.016	V	**DA VINCI LEARNING**	30000
● 11.016	V	**FANTASY**	30000
● 11.016	V	**FX**	30000
● 11.016	V	**LOCA1**	30000
● 11.016	V	**LOCA2**	30000
● 11.016	V	**LOCA3**	30000
● 11.016	V	**MARC DORCEL**	30000
● 11.016	V	**MOVIES 24**	30000
● 11.016	V	**MOVIES 24 EROTICA**	30000
● 11.016	V	**MOVIESMART**	30000
● 11.016	V	**PEMBESMART**	30000
● 11.016	V	**YEŞİLÇAM XXX**	30000
● 11.016	V	**D-SMART PROMO**	30000
● 11.016	V	**Z TV**	30000
● 11.016	V	**SMART HITS**	30000
● 11.016	V	**SMART JAZZ**	30000
● 11.016	V	**SMART OLDIES**	30000
● 11.016	V	**SMART ROCK**	30000
● 11.016	V	**SMART SLOW**	30000
● 11.094	H	**TRT 1**	24444
● 11.094	H	**TRT 2**	24444
● 11.094	H	**TRT 3**	24444
● 11.094	H	**TRT 4**	24444
● 11.094	H	**TRT INT**	24444
● 11.094	H	**Antalya Radyosu**	24444
● 11.094	H	**Audio Test Tone**	24444
● 11.094	H	**Erzurum Radyosu**	24444
● 11.094	H	**RADYO 1**	24444
● 11.094	H	**RADYO 2 (TRT FM)**	24444
● 11.094	H	**RADYO 3**	24444
● 11.094	H	**RADYO 4**	24444
● 11.094	H	**Radyo GAP**	24444
● 11.094	H	**Trabzon Radyosu**	24444
● 11.094	H	**TSR Turkce**	24444
● 11.094	H	**Turizm Radyosu**	24444
● 11.094	H	**VOT East**	24444
● 11.094	H	**VOT West**	24444
● 11.094	H	**VOT World**	24444
● 11.094	H	**Çukurova Radyosu**	24444
● 11.096	V	**CAY TV**	30000
● 11.096	V	**DOGU TV**	30000
● 11.096	V	**Expo_Ch**	30000
● 11.096	V	**Expo_Channel**	30000
● 11.096	V	**FASHION ONE TV**	30000
● 11.096	V	**FLASH TV**	30000
● 11.096	V	**Karadeniz TV**	30000
● 11.096	V	**NUMBER ONE TV**	30000
● 11.096	V	**POWER TURK TV & P**	30000
● 11.096	V	**RUMELI TV**	30000
● 11.096	V	**YABAN TV**	30000
● 11.096	V	**FENOMEN**	30000
● 11.096	V	**Karadeniz FM**	30000
● 11.096	V	**NUMBER ONE FM**	30000
● 11.096	V	**POWER FM**	30000
● 11.096	V	**POWER TURK FM**	30000
● 11.096	V	**POWER XL**	30000
● 11.096	V	**RADYO KLAS**	30000
11.145	H	**DISCOVERY HD**	5000
11.152	H	**EUROSPORT HD**	15800
11.152	H	**HD SMART**	15800
11.175	H	**TRT 2**	14400
11.175	H	**TRT-1**	14400
11.175	H	**RADYO 2 (TRT FM)**	14400
11.175	H	**Radyo-3**	14400
● 11.194	H	**HABERTURK TV**	7200
● 11.194	H	**KANAL 1**	7200
● 11.194	H	**Intercom**	7200
● 11.194	H	**HABERTURK RADYO**	7200
● 11.194	H	**POPTURK**	7200
● 11.524	V	**BRTK KKTC**	4557
11.554	H	**ITV AZERBAYCAN**	2916
11.577	H	**XAZAR TV**	2400
11.577	H	**BURC FM(Baku)**	2400
11.577	H	**INT**	2400
11.577	H	**XAZAR FM**	2400
● 11.581	H	**TRT-TURK**	4444
11.607	H	**AzTV Azerbaijan**	3750
● 11.628	H	**atv**	6666
● 11.642	H	**KANALTURK**	10370
● 11.642	H	**Intercom**	10370
● 11.642	H	**Kanalturk Radyo**	10370
11.694	H	**TRT-TURK**	4444
● 11.746	H	**AL JAZEERA CHANNE**	27500
● 11.746	H	**AL JAZEERA INT.**	27500
● 11.746	H	**ASU TV**	27500
● 11.746	H	**ORDU 52 TV**	27500
● 11.746	H	**TEMPO TV**	27500
● 11.746	H	**TURKSAT TANITIM**	27500
● 11.746	H	**TURKSAT TEST 1**	27500
● 11.746	H	**TURKSAT TEST 2**	27500
● 11.746	H	**TURKSAT TEST 3**	27500
● 11.746	H	**TURKSAT TEST 4**	27500
● 11.746	H	**TURKSAT TEST 5**	27500
● 11.746	H	**TURKSAT TEST 6**	27500
● 11.746	H	**TURKSAT TEST 7**	27500
● 11.746	H	**POLIS RADYOSU**	27500
● 11.747	H	**AL JAZEERA CHANNE**	27500
● 11.747	H	**AL JAZEERA INT.**	27500
● 11.747	H	**ASU TV**	27500
● 11.747	H	**ORDU 52 TV**	27500
● 11.747	H	**TEMPO TV**	27500
● 11.747	H	**TURKSAT TANITIM**	27500
● 11.747	H	**TURKSAT TEST 1**	27500
● 11.747	H	**TURKSAT TEST 2**	27500
● 11.747	H	**TURKSAT TEST 3**	27500
● 11.747	H	**TURKSAT TEST 4**	27500
● 11.747	H	**TURKSAT TEST 5**	27500
● 11.747	H	**TURKSAT TEST 6**	27500
● 11.747	H	**TURKSAT TEST 7**	27500
● 11.747	H	**POLIS RADYOSU**	27500
11.766	V	**A.B.C.AQTSADIA TV**	27500
11.766	V	**Abu Dhabi TV**	27500
11.766	V	**AL Fajr**	27500
11.766	V	**Al Forat**	27500
● 11.766	H	**AL JAZEERA CHANNE**	27500
● 11.766	H	**AL JAZEERA INT.**	27500
11.766	V	**AL Wasta**	27500
11.766	V	**Al.Manara.(sci.ch)**	27500
● 11.766	H	**ASU TV**	27500
11.766	V	**Beladi**	27500
11.766	V	**EDUC 1**	27500
11.766	V	**EDUC 2**	27500
11.766	V	**EDUC 3**	27500
11.766	V	**EDUC 4**	27500
11.766	V	**Huda TV**	27500
● 11.766	H	**ORDU 52 TV**	27500
11.766	V	**Salah EL-Din**	27500
11.766	V	**Sehaty**	27500
11.766	V	**Tamima**	27500
● 11.766	H	**TEMPO TV**	27500
11.766	V	**Test**	27500
● 11.766	H	**TURKSAT TANITIM**	27500
● 11.766	H	**TURKSAT TEST 1**	27500
● 11.766	H	**TURKSAT TEST 2**	27500
● 11.766	H	**TURKSAT TEST 3**	27500
● 11.766	H	**TURKSAT TEST 4**	27500
● 11.766	H	**TURKSAT TEST 5**	27500
● 11.766	H	**TURKSAT TEST 6**	27500
● 11.766	H	**TURKSAT TEST 7**	27500
11.766	V	**UNIV 1**	27500
11.766	V	**Abu Dhabi Radio**	27500
11.766	V	**Alforat**	27500
● 11.766	H	**POLIS RADYOSU**	27500
11.769	V	**DTV**	2177
● 11.777	H	**KANAL 7**	4800
● 11.777	H	**RADYO 7**	4800
● 11.777	H	**RADYO 7**	4800
11.778	V	**AL SHARJAH**	27500
11.778	V	**CNBC-ARABIYA**	27500
11.778	V	**Dubai One**	27500
11.778	V	**Dubai Racing Channel**	27500
11.778	V	**Dubai Sports.**	27500
11.778	V	**Dubai TV**	27500
11.778	V	**MUSICPLUS**	27500
11.778	V	**NOJOOM 1**	27500
11.778	V	**Sama Dubai**	27500
11.778	V	**SHARQIYA**	27500
11.778	V	**Space Toon Arabic**	27500
11.778	V	**ALSHARJAH RADIO**	27500
11.778	V	**EDTV Radio E**	27500
11.778	V	**EDTV Radio 1**	27500
11.785	H	**Animal Planet**	27500
11.785	H	**ARY**	27500
11.785	H	**ASIA**	27500
11.785	H	**B4M**	27500
11.785	H	**B4UM**	27500
11.785	H	**Discovery Science**	27500
11.785	H	**FOXN**	27500
11.785	H	**FSPR**	27500
11.785	H	**JXA1**	27500
11.785	H	**RTV**	27500
11.785	H	**S-ONE**	27500
11.785	H	**SKYN**	27500
11.785	H	**STARN**	27500
11.785	H	**TENSP**	27500
11.785	H	**UKTV**	27500
11.785	V	**AL SHARJAH**	27500
11.785	V	**CNBC-ARABIYA**	27500
11.785	V	**Dubai One**	27500
11.785	V	**Dubai Racing Channel**	27500
11.785	V	**Dubai Sports.**	27500
11.785	V	**Dubai TV**	27500
11.785	V	**MUSICPLUS**	27500
11.785	V	**NOJOOM 1**	27500
11.785	V	**Sama Dubai**	27500
11.785	V	**SHARQIYA**	27500
11.785	V	**Space Toon Arabic**	27500
11.785	V	**ALSHARJAH RADIO**	27500
11.785	V	**EDTV Radio E**	27500
11.785	V	**EDTV Radio 1**	27500
11.804	H	**Animal Planet**	27500
11.804	H	**ARY**	27500
11.804	H	**ASIA**	27500
11.804	H	**B4M**	27500
11.804	H	**B4UM**	27500
● 11.804	V	**DHA FEED**	24440
11.804	H	**Discovery Science**	27500
● 11.804	V	**DREAM TÜRK**	24440
11.804	H	**FOXN**	27500
11.804	H	**FSPR**	27500
11.804	H	**JXA1**	27500
● 11.804	V	**PASSION TV**	24440
11.804	H	**RTV**	27500
11.804	H	**S-ONE**	27500
11.804	H	**SKYN**	27500
11.804	H	**STARN**	27500
11.804	H	**TENSP**	27500
11.804	H	**UKTV**	27500
11.804	V	**AL SHARJAH**	27500
● 11.804	V	**BJK TV**	24440
11.804	V	**CNBC-ARABIYA**	27500
● 11.804	V	**CNN TÜRK**	24440
11.804	V	**Dubai One**	27500
11.804	V	**Dubai Racing Channel**	27500
11.804	V	**Dubai Sports.**	27500
11.804	V	**Dubai TV**	27500
● 11.804	V	**EURO D**	24440
● 11.804	V	**EURO STAR**	24440
● 11.804	V	**FB TV**	24440
● 11.804	V	**FIX TV**	24440
● 11.804	V	**GS TV**	24440
11.804	V	**MUSICPLUS**	27500
11.804	V	**NOJOOM 1**	27500
● 11.804	V	**PLUS MUZIK**	24440
11.804	V	**Sama Dubai**	27500
11.804	V	**SHARQIYA**	27500
11.804	V	**Space Toon Arabic**	27500
● 11.804	V	**TNT**	24440
11.804	V	**ALSHARJAH RADIO**	27500
● 11.804	V	**BEST FM**	24440
● 11.804	V	**CNN TÜRK RADYO**	24440
11.804	V	**EDTV Radio E**	27500
11.804	V	**EDTV Radio 1**	27500
● 11.804	V	**RADYO D**	24440
● 11.804	V	**RADYO MODA**	24440
● 11.804	V	**SLOW TÜRK**	24440
● 11.804	V	**{Empty Name}**	24440
● 11.804	V	**İSTANBUL FM**	24440
11.823	V	**AL MAGHRIBIA**	27500
11.823	V	**Al-Resala**	27500
11.823	V	**Alhurra**	27500
11.823	V	**AlThuraya**	27500
11.823	V	**Bahrain**	27500
11.823	V	**Kuwait**	27500
11.823	V	**Kuwait Sport & +**	27500
11.823	V	**Mehwer**	27500
11.823	V	**Oman**	27500
11.823	V	**PSC**	27500
11.823	V	**Sudan**	27500
11.823	V	**Syria**	27500
11.823	V	**Test**	27500
11.823	V	**KW Radio**	27500
11.823	V	**Kw Sp Radio**	27500
11.823	V	**NEW FM Oman**	27500
11.823	V	**Oman -Quran**	27500
11.823	V	**Oman Arabic Radio**	27500
11.823	V	**Oman English Radio**	27500
11.823	V	**Syria R1**	27500
11.823	V	**Syria R2**	27500
11.823	V	**Syria R3**	27500
● 11.830	V	**KANAL7 INT**	7200
● 11.830	V	**TEST**	7200
● 11.830	V	**tvt**	7200
● 11.830	V	**ULKE TV**	7200
● 11.830	V	**,,,**	7200
● 11.830	V	**;**	7200
● 11.830	V	**RADYO 7**	7200
11.836	H	**Nile Drama**	27500
11.836	H	**Nile Sport**	27500
11.836	H	**Nile Variety**	27500
11.836	H	**AL Saha 2**	27500
11.836	H	**AlJamahirya**	27500
11.836	H	**Cham TV**	27500
11.836	H	**Dream2**	27500
11.836	H	**Fashion**	27500
11.836	H	**FUNoon**	27500
11.836	H	**Nile Culture**	27500
11.836	H	**Nile Family**	27500
11.836	H	**Nile News**	27500
11.836	H	**Sowalif**	27500
11.836	H	**Tanweer**	27500
11.836	H	**Al bernameg AL theka**	27500
11.836	H	**ALWadi ALGaded**	27500
11.836	H	**ART Radio**	27500
11.836	H	**Aswan**	27500
11.836	H	**Bakous Alexandaria**	27500
11.836	H	**BBC (A)**	27500
11.836	H	**BBC (E)**	27500
11.836	H	**Mawagahat-6**	27500
11.836	H	**Mowagahat-1**	27500
11.836	H	**Mowagahat-2**	27500
11.836	H	**Mowagahat-8**	27500
11.836	H	**Radio Farda**	27500
11.836	H	**Radio Sawa Iraq**	27500
11.836	H	**Radio Sawa Levant**	27500
11.836	H	**Radio Sawa Sudan**	27500
11.836	H	**Radio VOA Iraq**	27500
11.836	H	**RMC MO**	27500
11.836	H	**Umdorman Radio**	27500
● 11.843	H	**ANIMAL PLANET**	27500
● 11.843	H	**CNN INTERNATIONAL**	27500
● 11.843	H	**COMEDY SMART**	27500
● 11.843	H	**DISCOVERY CHANNEL**	27500
● 11.843	H	**ESPN CLASSIC**	27500
● 11.843	H	**EUROSPORT**	27500
● 11.843	H	**SCIENCE**	27500
● 11.843	H	**TRAVEL & LIVING**	27500
● 11.843	H	**WORLD**	27500
● 11.843	H	**CARTOON NETWORK**	27500
● 11.843	H	**D SHOPPING**	27500
● 11.843	H	**FASHION TV**	27500
● 11.843	H	**KANAL D**	27500
● 11.843	H	**STAR TV**	27500
● 11.843	H	**TV 35**	27500
● 11.844	V	**_CLUP_TV**	4444
● 11.844	V	**_Taraftar_TV**	4444
● 11.844	V	**AKILLI_TV**	4444
● 11.844	V	**Smart**	4444
● 11.845	V	**_CLUP_TV**	4444
● 11.845	V	**_Taraftar_TV**	4444
● 11.845	V	**AKILLI_TV**	4444
● 11.845	V	**Smart**	4444
● 11.857	V	**TGRT EU**	3150
● 11.857	V	**TGRT FM**	3150
● 11.862	H	**ANIMAL PLANET**	27500
● 11.862	H	**CNN INTERNATIONAL**	27500
● 11.862	H	**COMEDY SMART**	27500
● 11.862	H	**DISCOVERY CHANNEL**	27500
11.862	V	**Disney Channel**	27500
11.862	V	**E! Entertainment**	27500
● 11.862	H	**ESPN CLASSIC**	27500
● 11.862	H	**EUROSPORT**	27500
11.862	V	**JimJam/Extreme**	27500
11.862	V	**Nat Geo Wild**	27500
● 11.862	H	**SCIENCE**	27500
11.862	V	**ShowComedy Xtra**	27500
11.862	V	**ShowShasha**	27500
11.862	V	**ShowShasha Extra**	27500
● 11.862	H	**TRAVEL & LIVING**	27500
● 11.862	H	**WORLD**	27500
11.862	V	**Al Waha**	27500
● 11.862	H	**CARTOON NETWORK**	27500
11.862	V	**Chatco**	27500
11.862	V	**City 7 TV**	27500
● 11.862	H	**D SHOPPING**	27500
● 11.862	H	**FASHION TV**	27500
● 11.862	H	**KANAL D**	27500
11.862	V	**Nojoom 3**	27500
11.862	V	**ShowToday**	27500
● 11.862	H	**STAR TV**	27500
● 11.862	H	**TV 35**	27500
11.862	V	**TXT**	27500
11.862	V	**Arabic EPG**	27500
● 11.870	V	**TV8**	8888
● 11.881	H	**ANIMAL PLANET**	27500
● 11.881	H	**CNN INTERNATIONAL**	27500
● 11.881	H	**COMEDY SMART**	27500
● 11.881	H	**DISCOVERY CHANNEL**	27500
● 11.881	H	**ESPN CLASSIC**	27500
● 11.881	H	**EUROSPORT**	27500
● 11.881	H	**SCIENCE**	27500
● 11.881	H	**TRAVEL & LIVING**	27500
● 11.881	H	**WORLD**	27500
● 11.881	H	**CARTOON NETWORK**	27500
● 11.881	H	**D SHOPPING**	27500
● 11.881	H	**FASHION TV**	27500
● 11.881	H	**KANAL D**	27500
● 11.881	H	**STAR TV**	27500
● 11.881	H	**TV 35**	27500
11.882	V	**BERAT**	2955
11.882	V	**HALAY**	2955
11.882	V	**Kanal Avrupa**	2955
● 11.885	H	**AVRASYA TV**	2960
● 11.897	H	**KaradenizTV**	2420
● 11.897	H	**KaradenizFM**	2420
11.900	V	**BERAT**	27500
11.900	V	**HALAY**	27500
11.900	V	**Kanal Avrupa**	27500
● 11.906	H	**samanyolu.tv**	4800
● 11.906	H	**Burc FM**	4800
● 11.906	H	**Dunya Radyo**	4800
● 11.906	H	**SHaber Radyo**	4800
● 11.919	H	**EUROSPORT HD**	27500
● 11.919	H	**DISCOVERY HD**	27500
● 11.919	H	**HDTV SMART**	27500
● 11.919	H	**KANAL D HD**	27500
● 11.919	H	**DREAM TV**	27500
● 11.919	H	**KIDSCO**	27500
● 11.919	H	**LULİ**	27500
● 11.919	H	**NASN**	27500
11.919	V	**BERAT**	27500
11.919	V	**HALAY**	27500
11.919	V	**Kanal Avrupa**	27500
● 11.924	H	**BUSINESS**	3333
11.929	H	**CEM TV**	2962
11.929	H	**CEM RADYO 96.4**	2962
11.933	H	**SU TV**	2155
11.936	H	**KaradenizTV**	2222
11.936	H	**KaradenizFM**	2222
● 11.938	H	**DISCOVERY HD**	27500
● 11.938	H	**EUROSPORT HD**	27500
● 11.938	H	**KANAL D HD**	27500
● 11.938	H	**HDTV SMART**	27500
● 11.938	H	**DREAM TV**	27500
● 11.938	H	**KIDSCO**	27500
● 11.938	H	**LULİ**	27500
● 11.938	H	**NASN**	27500
11.938	V	**BERAT**	27500
11.938	V	**HALAY**	27500
11.938	V	**Kanal Avrupa**	27500
● 11.939	H	**DISCOVERY HD**	27500
● 11.939	H	**HDTV SMART**	27500
● 11.939	H	**KANAL D HD**	27500
● 11.939	H	**EUROSPORT HD**	27500
● 11.939	H	**DREAM TV**	27500
● 11.939	H	**KIDSCO**	27500
● 11.939	H	**LULİ**	27500
● 11.939	H	**NASN**	27500
11.943	V	**BERAT**	2950
11.943	V	**HALAY**	2950
11.943	V	**Kanal Avrupa**	2950
● 11.944	V	**Hamsi.tv**	2222
● 11.944	V	**KANAL B**	4444
11.945	H	**NUMBER ONE TV**	4444
11.945	H	**TURKSAT TANITIM**	4444
11.945	H	**NUMBER ONE FM**	4444
11.945	H	**POLIS RADYOSU**	4444
11.945	H	**RADYO KLAS**	4444
11.945	H	**RADYO MYDONOSE**	4444
● 11.953	V	**KIBRIS GENC TV**	2980
● 11.953	V	**MMC TURK**	2980
● 11.953	V	**CYS FEED**	2980
● 11.953	V	**FIRST FM**	2980
● 11.954	H	**DISCOVERY HD**	27500
● 11.954	H	**KANAL D HD**	27500
● 11.954	H	**EUROSPORT HD**	27500
● 11.954	H	**HDTV SMART**	27500
● 11.954	H	**DREAM TV**	27500
● 11.954	H	**KIDSCO**	27500
● 11.954	H	**LULİ**	27500
● 11.954	H	**NASN**	27500
● 11.957	H	**DISCOVERY HD**	27500
● 11.957	H	**EUROSPORT HD**	27500
● 11.957	H	**HDTV SMART**	27500
● 11.957	H	**KANAL D HD**	27500
● 11.957	H	**DREAM TV**	27500
● 11.957	H	**KIDSCO**	27500
● 11.957	H	**LULİ**	27500
● 11.957	H	**NASN**	27500
● 11.957	V	**AVRASYA-TV**	2960
● 11.957	V	**Radyo ***** **	2960
● 11.964	H	**ALEM FM**	5925
● 11.964	H	**SHOW TV**	5925
11.970	H	**ANIMAL PLANET**	17500
11.970	H	**CNN INTERNATIONAL**	17500
11.970	H	**COMEDY SMART**	17500
11.970	H	**DISCOVERY CHANNEL**	17500
11.970	H	**EUROSPORT**	17500
11.970	H	**MOVIE SMART**	17500
11.970	H	**MOVIES 24**	17500
11.970	H	**MOVIES 24 EROTICA**	17500
11.970	H	**SCIENCE**	17500
11.970	H	**TRAVEL & LIVING**	17500
11.970	H	**WORLD**	17500
11.970	H	**FASHION TV**	17500
● 11.972	H	**FOX**	7200
11.973	V	**BERAT**	27500
● 11.973	H	**FOX**	7200
11.973	V	**HALAY**	27500
11.973	V	**Kanal Avrupa**	27500
11.976	V	**BERAT**	27500
11.976	V	**HALAY**	27500
11.976	V	**Kanal Avrupa**	27500
● 11.981	H	**TGRT Haber**	5200
● 11.981	H	**TGRT Pazarlama**	5200
● 11.981	H	**TGRT FM**	5200
● 11.981	H	**{Empty Name}**	5200
11.983	H	**Nickelodeon**	4000
11.983	H	**MTV TURKIYE**	4000
● 11.991	H	**KANALTÜRK**	3125
● 11.991	H	**KANALTÜRK RADYO**	3125
11.996	H	**ShowComedy**	27500
11.996	H	**ShowMovies 1**	27500
11.996	H	**ShowMovies 2**	27500
11.996	H	**ShowMovies Act**	27500
11.996	H	**ShowMovies Com**	27500
11.996	H	**ShowMovies Fam**	27500
11.996	H	**ShowSeries**	27500
11.996	H	**ShowSeries Extra**	27500
11.996	H	**Showsports 1**	27500
11.996	H	**Showsports 2**	27500
11.996	H	**Showsports 3**	27500
11.996	H	**Showsports 4**	27500
● 11.996	H	**BASKENT-AB TV**	27500
● 11.996	H	**BENGUTURK**	27500
● 11.996	H	**BUSINESS CHANNEL**	27500
● 11.996	H	**KANAL 13**	27500
● 11.996	H	**MORAL TV**	27500
● 11.996	H	**TURKSAT TEST 1**	27500
● 11.996	H	**TURKSAT TEST 2**	27500
● 11.996	H	**TURKSAT TEST 3**	27500
● 11.996	H	**TURKSAT TEST 4**	27500
● 11.996	H	**TURKSAT TEST 5**	27500
● 11.996	H	**TURKSAT TEST 6**	27500
● 11.996	H	**TURKSAT TEST 7**	27500
● 12.015	H	**BASKENT-AB TV**	27500
● 12.015	H	**BENGUTURK**	27500
12.015	V	**BERAT**	27500
● 12.015	H	**BUSINESS CHANNEL**	27500
12.015	V	**HALAY**	27500
● 12.015	H	**KANAL 13**	27500
12.015	V	**Kanal Avrupa**	27500
● 12.015	H	**MORAL TV**	27500
● 12.015	H	**TURKSAT TEST 1**	27500
● 12.015	H	**TURKSAT TEST 2**	27500
● 12.015	H	**TURKSAT TEST 3**	27500
● 12.015	H	**TURKSAT TEST 4**	27500
● 12.015	H	**TURKSAT TEST 5**	27500
● 12.015	H	**TURKSAT TEST 6**	27500
● 12.015	H	**TURKSAT TEST 7**	27500
● 12.034	H	**BASKENT-AB TV**	27500
● 12.034	H	**BENGUTURK**	27500
● 12.034	H	**BUSINESS CHANNEL**	27500
● 12.034	H	**KANAL 13**	27500
● 12.034	H	**MORAL TV**	27500
● 12.034	H	**TURKSAT TEST 1**	27500
● 12.034	H	**TURKSAT TEST 2**	27500
● 12.034	H	**TURKSAT TEST 3**	27500
● 12.034	H	**TURKSAT TEST 4**	27500
● 12.034	H	**TURKSAT TEST 5**	27500
● 12.034	H	**TURKSAT TEST 6**	27500
● 12.034	H	**TURKSAT TEST 7**	27500
12.053	V	**BERAT**	27500
12.053	V	**HALAY**	27500
12.053	V	**Kanal Avrupa**	27500
12.072	H	**BBC Food**	27500
12.072	H	**Boomerang**	27500
12.072	H	**Cartoon Network**	27500
12.072	H	**CNBC Europe**	27500
12.072	H	**Hallmark**	27500
12.072	H	**MTV Music**	27500
12.072	H	**Show Kids**	27500
12.072	H	**Style Network**	27500
12.072	H	**T433**	27500
12.072	H	**TCM**	27500
12.072	H	**Travel Channel**	27500
12.072	H	**Vh1**	27500
12.072	H	**CNN**	27500
12.073	H	**BBC Food**	27500
12.073	H	**Boomerang**	27500
12.073	H	**Cartoon Network**	27500
12.073	H	**CNBC Europe**	27500
12.073	H	**Hallmark**	27500
12.073	H	**MTV Music**	27500
12.073	H	**Show Kids**	27500
12.073	H	**Style Network**	27500
12.073	H	**T433**	27500
12.073	H	**TCM**	27500
12.073	H	**Travel Channel**	27500
12.073	H	**Vh1**	27500
12.073	H	**CNN**	27500
● 12.111	V	**AKS TV**	27500
● 12.111	V	**HALK TV**	27500
● 12.111	V	**HAMSI TV**	27500
● 12.111	V	**KACKAR TV**	27500
● 12.111	V	**KANAL 67**	27500
● 12.111	V	**KON TV**	27500
● 12.111	V	**KRAL KARADENIZ**	27500
● 12.111	V	**SHOPPING TV**	27500
● 12.111	V	**TEKIN AKDENIZ TV**	27500
● 12.111	V	**TOPRAK TV**	27500
● 12.111	V	**TURKSAT TEST**	27500
● 12.111	V	**ULUSAL KANAL**	27500
● 12.111	V	**YILDIZ TV**	27500
● 12.111	V	**IMAJ RADYO**	27500
● 12.111	V	**KACKAR FM**	27500
● 12.111	V	**KRALTURK**	27500
● 12.111	V	**RIBAT FM**	27500
● 12.111	V	**RIZENIN SESI**	27500
● 12.111	V	**YON FM**	27500
12.127	H	**Blinko TV**	7410
12.127	H	**Denge TV**	7410
12.127	H	**Ekin TV**	7410
12.127	H	**Esin TV**	7410
12.127	H	**ILAN TV**	7410
12.127	H	**IMAN TV**	7410
12.127	H	**iPlay**	7410
12.127	H	**Kanal 6**	7410
● 12.129	H	**Nickelodeon**	4000
● 12.129	H	**MTV TURKIYE**	4000
● 12.130	V	**AKS TV**	27500
● 12.130	V	**HALK TV**	27500
● 12.130	V	**HAMSI TV**	27500
● 12.130	V	**KACKAR TV**	27500
● 12.130	V	**KANAL 67**	27500
● 12.130	V	**KON TV**	27500
● 12.130	V	**KRAL KARADENIZ**	27500
● 12.130	V	**SHOPPING TV**	27500
● 12.130	V	**TEKIN AKDENIZ TV**	27500
● 12.130	V	**TOPRAK TV**	27500
● 12.130	V	**TURKSAT TEST**	27500
● 12.130	V	**ULUSAL KANAL**	27500
● 12.130	V	**YILDIZ TV**	27500
● 12.130	V	**IMAJ RADYO**	27500
● 12.130	V	**KACKAR FM**	27500
● 12.130	V	**KRALTURK**	27500
● 12.130	V	**RIBAT FM**	27500
● 12.130	V	**RIZENIN SESI**	27500
● 12.130	V	**YON FM**	27500
● 12.133	V	**TGRT EU**	3150
● 12.133	V	**TGRT FM**	3150
12.134	V	**TGRT EU**	3150
12.134	V	**TGRT FM**	3150
12.137	V	**FOXTURK**	2815
● 12.137	V	**TEST CARD**	2815
● 12.142	V	**DTV**	2177
● 12.149	V	**AKS TV**	27500
12.149	H	**Al-EKhbaria**	27500
● 12.149	V	**HALK TV**	27500
● 12.149	V	**HAMSI TV**	27500
● 12.149	V	**KACKAR TV**	27500
● 12.149	V	**KANAL 67**	27500
● 12.149	V	**KON TV**	27500
● 12.149	V	**KRAL KARADENIZ**	27500
12.149	H	**Saudi Sport**	27500
12.149	H	**Saudi TV**	27500
12.149	H	**Saudi-1**	27500
12.149	H	**Saudi-2**	27500
● 12.149	V	**SHOPPING TV**	27500
● 12.149	V	**TEKIN AKDENIZ TV**	27500
● 12.149	V	**TOPRAK TV**	27500
● 12.149	V	**TURKSAT TEST**	27500
● 12.149	V	**ULUSAL KANAL**	27500
● 12.149	V	**YILDIZ TV**	27500
12.149	H	**European**	27500
12.149	H	**Holy Quran**	27500
● 12.149	V	**IMAJ RADYO**	27500
● 12.149	V	**KACKAR FM**	27500
● 12.149	V	**KRALTURK**	27500
12.149	H	**Radio-5**	27500
● 12.149	V	**RIBAT FM**	27500
● 12.149	V	**RIZENIN SESI**	27500
12.149	H	**Saudi Radio-1**	27500
12.149	H	**Saudi Radio-2**	27500
● 12.149	V	**YON FM**	27500
12.169	H	**Al-EKhbaria**	27500
12.169	H	**Saudi Sport**	27500
12.169	H	**Saudi TV**	27500
12.169	H	**Saudi-1**	27500
12.169	H	**Saudi-2**	27500
12.169	H	**European**	27500
12.169	H	**Holy Quran**	27500
12.169	H	**Radio-5**	27500
12.169	H	**Saudi Radio-1**	27500
12.169	H	**Saudi Radio-2**	27500
12.206	V	**BERAT**	27500
12.206	V	**HALAY**	27500
12.206	V	**Kanal Avrupa**	27500
12.225	H	**AGHANI TV**	27500
12.225	H	**Ajman TV**	27500
12.225	H	**AL DEERA TV**	27500
12.225	H	**ANB TV**	27500
12.225	H	**ARABIAN TRAVEL TV**	27500
12.225	H	**Awtar TV**	27500
12.225	H	**BOROUZ TV**	27500
12.225	H	**FAWASEL TV**	27500
12.225	H	**GEAR ONE**	27500
12.225	H	**Infinity TV**	27500
12.225	H	**Libra TV**	27500
12.225	H	**NOJOOM 2**	27500
12.225	H	**NOJOOM 4**	27500
12.225	H	**AJMAN CH 4 FM**	27500
12.226	H	**AGHANI TV**	27500
12.226	H	**Ajman TV**	27500
12.226	H	**AL DEERA TV**	27500
12.226	H	**ANB TV**	27500
12.226	H	**ARABIAN TRAVEL TV**	27500
12.226	H	**Awtar TV**	27500
12.226	V	**BERAT**	27500
12.226	H	**BOROUZ TV**	27500
12.226	H	**FAWASEL TV**	27500
12.226	H	**GEAR ONE**	27500
12.226	V	**HALAY**	27500
12.226	H	**Infinity TV**	27500
12.226	V	**Kanal Avrupa**	27500
12.226	H	**Libra TV**	27500
12.226	H	**NOJOOM 2**	27500
12.226	H	**NOJOOM 4**	27500
12.226	H	**AJMAN CH 4 FM**	27500
12.245	H	**AGHANI TV**	27500
12.245	H	**Ajman TV**	27500
12.245	H	**AL DEERA TV**	27500
12.245	H	**ANB TV**	27500
12.245	H	**ARABIAN TRAVEL TV**	27500
12.245	H	**Awtar TV**	27500
12.245	H	**BOROUZ TV**	27500
12.245	H	**FAWASEL TV**	27500
12.245	H	**GEAR ONE**	27500
12.245	H	**Infinity TV**	27500
12.245	H	**Libra TV**	27500
12.245	H	**NOJOOM 2**	27500
12.245	H	**NOJOOM 4**	27500
12.245	H	**AJMAN CH 4 FM**	27500
12.283	V	**BERAT**	27500
12.283	V	**HALAY**	27500
12.283	V	**Kanal Avrupa**	27500
12.284	V	**BERAT**	27500
12.284	V	**HALAY**	27500
12.284	V	**Kanal Avrupa**	27500
12.302	H	**FEED1**	27500
12.302	H	**Kairali**	27500
12.302	H	**NEOSP**	27500
12.302	H	**Shara1**	27500
12.302	H	**A1TV**	27500
12.302	H	**Al Diyar**	27500
12.302	H	**ALHAKEKA**	27500
12.302	H	**Dawn News**	27500
12.302	H	**FutureTV**	27500
12.302	H	**ISHTAR TV**	27500
12.302	H	**LBC EU**	27500
12.302	H	**Live TV**	27500
12.302	H	**Nourmina**	27500
12.302	H	**Seven Stars**	27500
12.302	H	**Spare**	27500
12.302	H	**Rotana Radio Jordan**	27500
12.303	V	**BERAT**	27500
12.303	V	**HALAY**	27500
12.303	V	**Kanal Avrupa**	27500
12.322	H	**FEED1**	27500
12.322	H	**Kairali**	27500
12.322	H	**NEOSP**	27500
12.322	H	**Shara1**	27500
12.322	H	**A1TV**	27500
12.322	H	**Al Diyar**	27500
12.322	H	**ALHAKEKA**	27500
12.322	H	**Dawn News**	27500
12.322	H	**FutureTV**	27500
12.322	H	**ISHTAR TV**	27500
12.322	H	**LBC EU**	27500
12.322	H	**Live TV**	27500
12.322	H	**Nourmina**	27500
12.322	H	**Seven Stars**	27500
12.322	H	**Spare**	27500
12.322	H	**Rotana Radio Jordan**	27500
12.341	V	**BERAT**	27500
12.341	V	**HALAY**	27500
12.341	V	**Kanal Avrupa**	27500
12.360	H	**A LPHA Shop**	27500
12.360	H	**Al Badeel**	27500
12.360	H	**Al Hafez**	27500
12.360	H	**Al Mowselya TV**	27500
12.360	H	**ALLIBIYA**	27500
12.360	H	**ALSALAM**	27500
12.360	H	**ANN TV**	27500
12.360	H	**DIJLA**	27500
12.360	H	**LIBYA AL-RIADHIA**	27500
12.360	H	**LIBYA AL-RIADHIA**	27500
12.360	H	**Panorama Drama**	27500
12.360	H	**SCOPE Tv**	27500
12.360	H	**Smash TV**	27500
12.360	H	**Test**	27500
12.360	H	**ALLIBIYA FM1**	27500
12.360	H	**AlSalam Radio**	27500
12.380	V	**BERAT**	27500
12.380	V	**HALAY**	27500
12.380	V	**Kanal Avrupa**	27500
12.399	H	**AL-Adalah**	27500
12.399	H	**ALHURRIA TV**	27500
12.399	H	**ALJamahereya ALLib**	27500
12.399	H	**ALMasar TV**	27500
12.399	H	**AlMawadah**	27500
12.399	H	**AlMawadah TV**	27500
12.399	H	**Ghinaeya**	27500
12.399	H	**Kurdistan TV**	27500
12.399	H	**Lebanon TV**	27500
12.399	H	**OTV**	27500
12.399	H	**Qamar-Kh**	27500
12.399	H	**Qatar Festival**	27500
12.399	H	**TSN**	27500
12.399	H	**TURKMEN TV**	27500
12.399	H	**Venus TV**	27500
12.399	H	**ALJamahereya R**	27500
12.535	H	**HALK TV**	2962
12.558	V	**BERAT**	27500
12.558	V	**HALAY**	27500
12.558	V	**Kanal Avrupa**	27500
● 12.592	H	**Cine5**	8888
● 12.592	H	**Gala**	8888
● 12.592	H	**Supersport**	8888
● 12.592	H	**Viva**	8888
● 12.592	H	**Nostalji TURK**	8888
● 12.592	H	**Radyo Viva**	8888
● 12.592	H	**Radyo5**	8888
● 12.592	H	**Show Radyo**	8888
● 12.593	H	**Cine5**	8888
● 12.593	H	**Gala**	8888
● 12.593	V	**Rustavi 2**	2500
● 12.593	H	**Supersport**	8888

TV Digital
Radio Digital
TV Digital Crypt
Radio Digital Crypt
TV High Definition
TV High Definition Crypt

Freq GHz	Pol	Channel Name	Symbol rate
● 12.593	H	Viva	8888
● 12.593	H	Nostalji TURK	8888
● 12.593	H	Radyo Viva	8888
● 12.593	H	Radyo5	8888
● 12.593	H	Show Radyo	8888
● 12.594	V	Rustavi 2	2500
12.597	V	BERAT	27500
12.597	V	HALAY	27500
12.597	V	Kanal Avrupa	27500
● 12.601	H	KANAL A	4400
● 12.601	H	Radyo A	4400
● 12.602	H	KANAL A	4400
● 12.602	H	Radyo A	4400
● 12.607	H	OLAY TV & FM	2950
12.609	V	IMEDI TV	3700
● 12.615	V	atv avrupa	4800
● 12.615	V	TURKUVAZ	4800
● 12.615	V	.	4800
● 12.615	V	atv radyo	4800
● 12.620	V	YENI ASIR TV	2400
● 12.632	V	MPL TV	2222
● 12.632	V	MPL RADYO	2222
● 12.636	V	KANAL BIZ	3125
12.638	V	BERAT	2300
12.638	V	HALAY	2300
12.638	V	Kanal Avrupa	2300
● 12.640	V	EGE TV	2400
● 12.643	H	Kral Avrupa	4800
● 12.643	H	NTV BATI	4800
● 12.643	H	Intercomm	4800
● 12.644	V	TVNET	2960
● 12.644	V	LALEGUL FM	2960
12.647	V	KACKAR TV	3333
12.647	V	Rize TV	3600
12.647	V	TEST	3333
12.647	V	TravelTurk	3600
12.647	V	YILDIZ TV	3333
12.647	V	KACKAR FM	3333
12.647	V	RIZENIN SESI	3333
12.647	V	TEST	3333
● 12.650	H	SKYTURK	4250
12.652	V	HABERTURK TV	3900
12.652	V	YABAN TV	3900
12.652	V	Intercom	3900
● 12.656	H	SHOW TURK	4444
12.662	V	D MAX	9150
12.662	V	DHA FEED	9150
12.662	V	MARC DORCEL	9150
12.662	V	PEMBE SMART	9150
12.664	V	BERAT	2344
12.664	V	HALAY	2344
12.664	V	Kanal Avrupa	2344
● 12.679	V	24	8888
● 12.679	V	STR	8888
● 12.679	V	Radyo ABC	8888
● 12.685	H	AKSU TV	30000
● 12.685	H	G.ANTEP OLAY TV	30000
● 12.685	H	HILAL TV	30000
● 12.685	H	KANAL 35	30000
● 12.685	H	KANAL T	30000
● 12.685	H	MAVI KARADENIZ	30000
● 12.685	H	TEMPO TV	30000
● 12.685	H	TURKSAT TEST 1	30000
● 12.685	H	TURKSAT TEST 2	30000
● 12.685	H	TURKSAT TEST 3	30000
● 12.685	H	TURKSAT TEST 4	30000
● 12.685	H	TURKSAT TEST 5	30000
● 12.685	H	TV 58	30000
● 12.685	H	VATAN TV	30000
● 12.685	H	GOZYASI FM	30000
● 12.685	H	SEYR FM	30000
● 12.686	H	AKSU TV	30000
● 12.686	H	G.ANTEP OLAY TV	30000
● 12.686	H	HILAL TV	30000
● 12.686	H	KANAL 35	30000
● 12.686	H	KANAL T	30000
● 12.686	H	MAVI KARADENIZ	30000
● 12.686	H	TEMPO TV	30000
● 12.686	H	TURKSAT TEST 1	30000
● 12.686	H	TURKSAT TEST 2	30000
● 12.686	H	TURKSAT TEST 3	30000
● 12.686	H	TURKSAT TEST 4	30000
● 12.686	H	TURKSAT TEST 5	30000
● 12.686	H	TV 58	30000
● 12.686	H	VATAN TV	30000
● 12.686	H	GOZYASI FM	30000
● 12.686	H	SEYR FM	30000
12.707	H	24	3900
12.719	V	BERAT	2950
12.719	V	HALAY	2950
12.719	V	Kanal Avrupa	2950
● 12.729	H	6 NEWS	30000
● 12.729	H	AIRPORT TV	30000
● 12.729	H	ATA TV	30000
● 12.729	H	BUSINESS CHANNEL	30000
● 12.729	H	CEM TV	30000
● 12.729	H	DOST TV	30000
● 12.729	H	KADIRGA TV	30000
● 12.729	H	MARMARA TV	30000
● 12.729	H	MELTEM TV	30000
● 12.729	H	MESAJ TV	30000
● 12.729	H	OZLEM TV	30000
● 12.729	H	SU TV	30000
● 12.729	H	TURKSAT TANITIM	30000
● 12.729	H	TV 5	30000
● 12.729	H	CEM RADYO 96.4	30000
● 12.729	H	MEDYA FM	30000
● 12.729	H	MELTEM RADYO	30000
● 12.729	H	POLIS RADYOSU	30000
● 12.729	H	RADYO AS	30000
● 12.729	H	RADYO ILAC	30000
● 12.729	H	RADYO MYDONOSE	30000

TURKSAT 2A

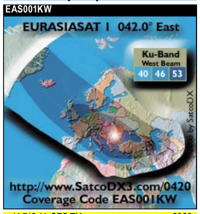
42.1 East

EAS001KE

Freq GHz	Pol	Channel Name	Symbol rate
11.733	H	Eurasiasat promo	3291
11.733	H	Polis Radyosu	3291
11.757	V	Avrasya-ANK	2960
11.757	V	CEM TV	2960
11.757	V	CEM RADYO 96.4	2960
11.759	H	Show TV	5925
11.763	V	SU TV	2155
11.788	H	Palestine Channel	2892
11.794	H	STAR TV	5632
11.800	H	ANS TV	2400
11.800	H	ANS Ch.M.	2400
11.820	H	Avrasya TV	3000
11.820	H	Avrasya FM	3000
11.892	H	NBA TV	12800
11.892	H	CNBC-e	12800
11.892	H	e2	12800
11.892	H	NTV	12800
11.892	H	N 101	12800
11.892	H	NTV Radyo	12800
11.892	H	Radyo Eksen	12800
11.892	H	Rokket FM	12800
11.905	H	KANAL D	6666
11.905	H	Kanal D	6666
11.905	H	IFB&TEK1	6666
11.905	H	IFB&TEK2	6666
11.905	H	IFB&TEK3	6666
11.905	H	IFB&TEK4	6666
11.905	H	iPORTAL	6666
11.905	H	Radio Time	6666
11.905	H	Radyo D	6666
11.905	H	RADYO D	6666
11.912	H	Ayna TV	3332
11.977	H	CNBC-E	27500

Freq GHz	Pol	Channel Name	Symbol rate
11.977	H	DISCOVERY	27500
11.977	H	NBA	27500
11.977	H	NICKELODEON	27500
11.977	H	NTV	27500
11.977	H	KANAL 7	27500
11.977	H	NR1	27500
12.002	H	ATV Turkiye	4800
12.008	H	Kanal 1	4400
12.008	H	Turk C	4400
12.017	H	TGRT	8150
12.017	H	TGRT Haber TV	8150
12.017	H	TGRT Pazarlama TV	8150
12.017	H	Blank audio channel	8150
12.017	H	TGRT FM	8150
12.028	H	Samanyolu TV	4557
12.028	H	Audio tests	4557
12.028	H	Burc FM	4557
12.028	H	Dunya Radyo	4557

EAS001KW



Freq GHz	Pol	Channel Name	Symbol rate
11.712	V	SES TV	2963
11.717	V	HILAL TV	2222
11.717	V	GÖZYAŞI FM	2222
11.727	V	ELMAX	15555
11.727	V	INTIMACY	15555
11.727	V	KANAL 1.	15555
11.727	V	LIG TV	15555
11.727	V	RETROMAX	15555
11.727	V	S'NEK	15555
11.727	V	TÜRKMAX	15555
11.727	V	İZ	15555
11.727	V	JOJO	15555
11.727	V	SHOWROOM	15555
11.727	V	MASAL RADYO	15555
11.727	V	POWER FM	15555
11.727	V	POWERTURK	15555
11.727	V	TEST	15555
11.743	V	CAY TV	2222
11.765	V	KaradenizTV	2177
11.765	V	SU TV	2177
11.765	V	KaradenizFM	2177
11.765	V	MÜJDEFM EGE	2177
11.765	V	Radyo EKÝN	2177
11.765	V	RADYO VATAN	2177
11.773	V	Dost TV	2420
11.779	V	Manolya TV	6250
11.779	V	TEST	6250
11.779	V	TGRT EU	6250
11.779	V	TGRT FM	6250
11.804	V	DHA FEED	24444
11.804	V	MOVIE SMART	24444
11.804	V	PASSION TV	24444
11.804	V	BJK TV	24444
11.804	V	CNN TURK	24444
11.804	V	CNN TÜRK	24444
11.804	V	DHA FEED	24444
11.804	V	DREAM TURK	24444
11.804	V	DREAM TV	24444
11.804	V	DREAM TÜRK	24444
11.804	V	EURO D	24444
11.804	V	EURO STAR	24444
11.804	V	FB TV	24444
11.804	V	FIX TV	24444
11.804	V	GS TV	24444
11.804	V	MAX TV	24444
11.804	V	MMC Euroturk	24444
11.804	V	POWERTURK TV	24444
11.804	V	POWERTÜRK TV	24444
11.804	V	IFB-TEK 1 V POL	24444
11.804	V	IFB-TEK 2 V POL	24444
11.804	V	IFB-TEK 3 V POL	24444
11.804	V	IFB-TEK 4 V POL	24444
11.804	V	RADIO TEST	24444
11.804	V	BEST FM	24444
11.804	V	CNN TURK RADIO	24444
11.804	V	CNN TÜRK RADYO	24444
11.804	V	FENOMEN	24444
11.804	V	istanbul FM	24444
11.804	V	POWER XL	24444
11.804	V	RADYO D	24444
11.804	V	RADYO TIME	24444
11.804	V	SLOW TURK	24444
11.804	V	SLOW TÜRK	24444
11.804	V	İSTANBUL FM	24444
11.839	V	TURKMEN TV	4444
11.846	V	TV5	3333
11.852	V	MaviAkdeniz	4444
11.852	V	S TEST	4444
11.852	V	Smart	4444
11.857	V	Tatlises TV	2400
11.867	V	KANAL B	4444
11.874	V	Meltem TV	3400
11.874	V	FM	3400
11.874	V	Meltem Radyo	3400
11.874	V	Radyo	3400
11.874	V	Radyo Ilac	3400
11.877	V	mesaj tv	2598
11.882	V	KANAL AVRUPA	2965
11.887	V	T------ S-----	3333
11.892	V	Avrasya-ANK	2960
11.892	V	Radyo BANKO	2960
11.923	V	TRT 1	24440
11.923	V	TRT 2	24440
11.923	V	TRT 3	24440
11.923	V	TRT 4	24440
11.923	V	TRT INT	24440
11.923	V	Audio Test Tone	24440
11.923	V	Meteorolojinin Sesi	24440
11.923	V	RADYO 1	24440
11.923	V	RADYO 2 (TRT FM)	24440
11.923	V	RADYO 3	24440
11.923	V	RADYO 4	24440
11.923	V	Radyo GAP	24440
11.923	V	TSR Turkce	24440
11.923	V	Turizm Radyosu	24440
11.923	V	VOT East	24440
11.923	V	VOT West	24440
11.923	V	VOT World	24440
11.945	V	TD 1	2960
11.952	V	MEHTAP TV	8800
11.952	V	S HABER	8800
11.952	V	SAMANYOLU TV	8800
11.952	V	YUMURCAK TV	8800
11.952	V	INTERCOM	8800
11.952	V	AKRA FM	8800
11.952	V	BURC FM	8800
11.952	V	DUNYA RADIO	8800
11.952	V	MARMARA FM	8800
11.952	V	MORAL FM	8800
11.952	V	RADYO 15	8800
11.959	V	KIBRIS GENC TV	2960
11.959	V	CYS FEED	2960
11.959	V	FIRST FM	2960
11.963	V	DOGU TV	2300
11.970	V	Test	4340
11.973	V	KONTV	2239
11.996	V	Ask TV	26000
11.996	V	Box TV	26000
11.996	V	cips tv	26000
11.996	V	DugunTV	26000
11.996	V	KanalC	26000
11.996	V	KARE	26000
11.996	V	Mavi Karadeniz	26000
11.996	V	ORDU TV	26000
11.996	V	TShop	26000
11.996	V	TurkDugun	26000
11.996	V	TurkShop	26000
11.996	V	TurkShow	26000
11.996	V	ASK FM	26000
11.996	V	KUPE FM	26000

Freq GHz	Pol	Channel Name	Symbol rate
11.996	V	Mujde Akdeniz	26000
11.996	V	Mujde Ege	26000
11.996	V	Ozgur Radyo Ankara	26000
11.996	V	RADYO	26000
11.996	V	RADYO SAHIN	26000
11.996	V	Radyo Spor	26000
11.996	V	Radyo TATLISES	26000
11.996	V	Radyo Time	26000
11.996	V	Radyo Vatan	26000
12.126	V	HABER 7	6665
12.126	V	KANAL7 INT	6665
12.126	V	tvt	6665
12.126	V	;	6665
12.126	V	ISTANBULUN SESI	6665
12.126	V	RADYO M-R 7	6665
12.134	V	BUSINESS CH	3333
12.141	V	EAS PROMO	4442
12.141	V	NUMBER ONE TV TES	4442
12.141	V	TURKSAT TEST 2	4442
12.141	V	NUMBER ONE FM	4442
12.141	V	RADYO KLAS	4442
12.141	V	RADYO MYDONOSE	4442
12.506	V	Babe TV	2222
12.506	V	Gunizi TV	2222
12.506	V	Private TV	2222

EAS001S1

Freq GHz	Pol	Channel Name	Symbol rate
12.513	H	Kanal A	4444
12.513	H	Test	4444
12.518	H	SHOPPING	3125
12.518	H	Shopping TV	3125
12.524	H	SKYTURK	4250
12.530	H	SHOW TURK	4444
12.535	H	HALK TV	2962
12.540	H	EUROTURK.	3125
12.590	V	LIFE CHANNEL	3002
12.595	V	Rustavi 2	2500
12.605	V	Georgian TV	2962
12.605	V	GEORGIAN TV	2962
12.608	V	IMEDI TV	3700
12.614	V	CLUB	3003
12.614	V	EUROPE	3003
12.614	V	GEORGIAN TV	3003
12.614	V	RED	3003
12.614	V	SHE	3003
12.620	V	ARKADAS TV	6161
12.620	V	CANLI SHOBET TV	6161
12.620	V	CEP MELODI-SMS TV	6161
12.620	V	God	6161
12.620	V	GOD UK	6161
12.620	V	Satmedia tv	6161
12.620	V	VIC TV Promo	6161
12.620	V	VICTV Promo	6161
12.620	V	Cross Rhythms	6161
12.633	V	FEED	4800
12.633	V	atv	4800
12.633	V	.	4800
12.633	V	Marmara Radyo	4800
12.633	V	RADIO CITY	4800
12.638	V	TURK C	2300
12.649	V	test	6666
12.652	H	FANTASY	22500
12.652	H	LOCA1	22500
12.652	H	LOCA2	22500
12.652	H	LULİ	22500
12.652	H	D COCUK	22500
12.652	H	D MAX	22500
12.652	H	D PLUS	22500
12.652	H	D SHOPPING	22500
12.652	H	D SINEMAX	22500
12.652	H	D SPOR	22500
12.652	H	D YESiLCAM	22500
12.652	H	D YEŞİLÇAM	22500
12.652	H	D ÇOCUK	22500
12.652	H	EMLAK TV	22500
12.652	H	HABERTURK	22500
12.652	H	KRAL TV	22500
12.652	H	MOVIE SMART 2	22500
12.652	H	T.A.Y. TV	22500
12.652	H	test2	22500
12.652	H	KRAL FM	22500
12.652	H	METRO FM	22500
12.652	H	RADYO HABERTURK	22500
12.652	H	SUPER FM	22500
12.665	V	teknoloji tv	2344
12.665	V	Teknoloji TV	2344
12.680	H	Cine5	8888
12.680	H	Gala	8888
12.680	H	Halay TV	8888
12.680	H	Supersport	8888
12.680	H	Viva	8888
12.680	H	Radyo Nostalji	8888
12.680	H	Radyo Viva	8888
12.680	H	Radyo5	8888
12.680	H	Show Radyo	8888
12.688	H	Kanal 6	2400
12.692	H	AZAD AZERBAYCAN	2800
12.695	H	Nur TV	2285
12.695	H	Nur Radio	2285
12.699	H	Ege TV	2400
12.699	H	Radio Ege	2400
12.706	H	Ey TV Antalya	2400
12.706	H	Ey FM Antalya	2400
12.715	V	NTV Int	2965
12.719	V	Olay TV	2950
12.733	V	EAS_PROMO	3333

South Africa

INTELSAT 12

45.0 East

Freq GHz	Pol	Channel Name	Symbol rate
● 11.452	H	KIMBERLEY2	3254
11.461	H	Skytrain	5926
11.461	H	Spare	5926
11.470	H	URBAN_BREW 2_	2894
● 11.483	H	E-TV PE	3100

India

INTELSAT 12

45.1 East

Freq GHz	Pol	Channel Name	Symbol rate
● 11.468	V	aarti TV	27680
11.468	V	Cartoon Network	27680
11.468	V	Channel C	27680
11.468	V	Derana	27680
11.468	V	Eye/Nethra	27680
11.468	V	God TV	27680
11.468	V	Islam channel	27680
11.468	V	ITN	27680
11.468	V	MTV	27680
11.468	V	NEO Sports	27680
11.468	V	Nickelodeon	27680
11.468	V	POGO	27680
11.468	V	Ranaroo	27680
11.468	V	Rupavahini	27680
11.468	V	Star Cricket	27680
11.468	V	Swarnawahini	27680
11.468	V	TNL	27680
11.468	V	VH1	27680
11.468	V	Zee Sports	27680
11.468	V	The Buddhist	27680
11.591	V	Al Jazeera	27689
11.591	V	AXN	27689
11.591	V	BBC World	27689
11.591	V	CineMax	27689
11.591	V	CNN	27689
11.591	V	Hallmark	27689
11.591	V	HBO	27689
11.591	V	HBO Family	27689
11.591	V	HBO Hits	27689
11.591	V	HBO Signature	27689
11.591	V	NDTV	27689
11.591	V	Set MAX	27689
11.591	V	Star Movies	27689
11.591	V	Star Vijay	27689
11.591	V	Star World	27689
11.591	V	TBO	27689
11.591	V	Zee Cinema	27689
11.591	V	Zee Studio	27689
11.632	V	CH 18	27689
● 11.632	V	Bloomberg	27689
● 11.632	V	Boomerang	27689
11.632	V	CH 4	27689
● 11.632	V	Kalaignar TV	27689
● 11.632	V	UTV Movies	27689
● 11.632	V	UTV World Movies	27689
11.632	V	CH 10	27689
11.632	V	CH 11	27689
11.632	V	CH 12	27689
11.632	V	CH 13	27689
11.632	V	CH 14	27689
11.632	V	CH 15	27689
11.632	V	CH 16	27689
11.632	V	CH 17	27689
11.632	V	CH 7	27689
11.632	V	CH 8	27689
11.632	V	CH 9	27689
11.673	V	Animal Planet	27689
11.673	V	AustraliaNetwork	27689
11.673	V	CiTi Hitz	27689
11.673	V	Discovery	27689
11.673	V	ESPN	27689
11.673	V	History	27689
11.673	V	NatGEO	27689
11.673	V	NatGEO Adventure	27689
11.673	V	NDTV GoodTimes	27689
11.673	V	Neo Cricket	27689
11.673	V	SET	27689
11.673	V	Star Plus	27689
11.673	V	Star Sports	27689
11.673	V	Ten Sports	27689
11.673	V	Travel & Living	27689
11.673	V	Zee Cafe	27689
11.673	V	Zee Trendz	27689
11.673	V	Zee TV	27689

Europe

INTELSAT 12

45.2 East

Freq GHz	Pol	Channel Name	Symbol rate
11.468	V	ESPN	27500
11.468	V	FootSchool TV	27500
11.468	V	National Geographic	27500
11.468	V	Sarafan	27500
11.468	V	Travel Channel	27500
11.468	V	Provse Net	27500
11.468	V	Wedding TV	27500
11.500	V	Racing International	4340
11.500	V	SA Clean Feed	4340
11.511	V	SOUTHERN SUDAN TE	2894
11.550	V	Feniks-Art	27500
11.550	V	Inter Plus	27500
11.550	V	Israel + Russia	27500
11.550	V	MAKS TV	27500
11.550	V	MEZZO	27500
11.550	V	POP TV	27500
11.550	V	TDK	27500
11.550	V	TV Centr Internation	27500
11.550	V	WorldMadeChannel	27500
11.550	V	ZEE TV Russian	27500
11.550	V	Blagovest Channel	27500
11.550	V	Kitay	27500
11.550	V	New Illusion	27500
11.550	V	Ocean TV	27500
11.550	V	Russian TV Time Info	27500
11.550	V	Doroznoe Radio	27500
11.591	V	Discovery HD	30000
11.591	V	Discovery HD Polish	30000
● 11.591	V	Animal Planet Russia	30000
11.591	V	Disc Iberia Por	30000
11.591	V	Disc Iberia Sp	30000
11.591	V	Disc Iberia Sp Por	30000
11.591	V	Discovery Historia	30000
11.591	V	Discovery Hungary	30000
11.591	V	Discovery Russia	30000
12.675	V	SERVICE1	3296

Asia, Europe

C-Band: YAMAL 202

49.0 East

YAM202CB

Freq GHz	Pol	Channel Name	Symbol rate
3.585	L	TURA_TV	3215
3.706	L	PLANETA SPORT	15550
3.706	L	rentv0	15550
3.706	L	rentv2	15550
3.706	L	RIK	15550
3.706	L	RTR PLANETA	15550
3.740	L	Rusiya Al-Yaum	38000
3.740	L	Russia Today	38000
● 3.740	L	TV ZVEZDA+0	38000
● 3.740	L	TVC Europe	38000
● 3.740	L	TVCI	38000
3.740	L	D1-1	38000
3.740	L	D1-10	38000
3.740	L	D1-11	38000
3.740	L	D1-12	38000
3.740	L	D1-13	38000
3.740	L	D1-14	38000
3.740	L	D1-15	38000
3.740	L	D1-16	38000
3.740	L	D1-2	38000
3.740	L	D1-3	38000
3.740	L	D1-4	38000
3.740	L	D1-5	38000
3.740	L	D1-6	38000
3.740	L	D1-7	38000
3.740	L	D1-8	38000
3.740	L	D1-9	38000
● 3.740	L	Russian Public Radio	38000
3.794	L	NOVY VEK	1800
3.909	L	VTC YAMAL	1356
3.940	L	RTR+Pomor'e	7500
3.940	L	TVS_Severnaya Dvina	7500
3.945	L	JAYA TV	1555
3.948	L	PRIME SPORTS	2220
3.953	L	DAN	4500
3.953	L	TVLanka 2	4500
3.953	L	TVL Radio	4500
3.961	L	RTR+REGION TYUMEN	8570
3.961	L	TYUMEN TIME	8570
3.970	L	GTRK Yamal	4275
3.977	L	TYMEN-YGORIA TV	4285
3.982	L	TV KOMI	4285
● 3.988	L	TV-UNIVERSITET	2150
4.068	L	Feed (FEED-1)	29755
4.068	L	Feed (FEED-2)	29755

EXPRESS AM22/SESAT 2

53.0 East

Freq GHz	Pol	Channel Name	Symbol rate
11.682	V	Limar TV	5000
11.682	V	Tolo TV	5000
10.974	H	5 Channel	8150
11.031	H	CTPAHA COBETOB	3750
11.044	V	1-Muz BY	44950
11.044	V	CTC+0	44950
11.044	V	CTC+2	44950
11.044	V	Domashny+0	44950
11.044	V	Domashny+2	44950
11.044	V	FNS	44950
11.044	V	MuzTV+Love	44950
11.044	V	World Music Channel	44950
11.044	V	Love Radio	44950
11.044	V	Radio CH50	44950
11.044	V	Radio CH51	44950
11.044	V	Radio CH52	44950
11.044	V	Radio CH53	44950
11.044	V	Radio Max	44950
11.095	V	NTN	6400
11.095	V	UTR	6400
11.095	V	RUI2	6400
11.095	V	UR1	6400
11.161	V	STV	5785
11.161	V	Belarus-TV	5785
11.616	V	Tandberg Service	2892
12.631	V	ASHUR TV	2530
12.632	H	SALAM TV	2170
12.637	H	Al Masar	2532
12.639	V	AL RAI 1B	2892
12.639	V	TV	2892
12.652	H	Al-Mosullia	2532
12.664	V	ART-Feed	30000
12.664	V	CH1-SCR	30000
12.664	V	CH2-SCR	30000
12.664	V	ERTU	30000
12.664	V	ESCA	30000
12.664	V	Feed-2	30000
12.664	V	JSC-Feed	30000
12.664	V	OrbitLine1	30000
12.664	V	OrbitLine2	30000
12.664	V	OrbitLine3	30000
12.664	V	Al-Majd Feed	30000
12.664	V	CH5	30000
12.664	V	CH8	30000
12.664	V	Feed-4	30000
12.664	V	N DRAMA	30000
12.664	V	HolyQuran Radio	30000
12.741	H	Temp 1	7086
12.741	H	Temp 2	7086
12.741	H	Service 2	7086
12.741	H	Ch-4	7086
12.741	H	Ch 5	7086
12.741	H	Ch 8	7086

EXPRESS AM22/SESAT 2

53.1 East

Freq GHz	Pol	Channel Name	Symbol rate
11.682	V	Limar TV	5000
11.682	V	Tolo TV	5000
10.974	H	5 Channel	8150
10.974	H	Kanal 5	8150
11.031	H	CTPAHA COBETOB	3750
11.044	V	1-Muz BY	44950
11.044	V	CTC+0	44950
11.044	V	CTC+2	44950
11.044	V	Domashny+0	44950
11.044	V	Domashny+2	44950
11.044	V	FNS	44950
11.044	V	MuzTV+Love	44950
11.044	V	World Music Channel	44950
11.044	V	Love Radio	44950
11.044	V	Radio CH50	44950
11.044	V	Radio CH51	44950
11.044	V	Radio CH52	44950
11.044	V	Radio CH53	44950
11.044	V	Radio Max	44950
11.095	V	NTN	6400
11.095	V	UTR	6400
11.095	V	RUI2	6400
11.095	V	UR1	6400
11.161	V	MINSK TV	5785
11.161	V	STV	5785
11.161	V	Belarus-TV	5785
11.616	V	Allibiya Satellite C	2892
12.631	V	ASHUR TV	2530
12.632	H	Al Salam	2170
12.637	H	Al Masar	2532
12.639	V	AL RAI 1B	2892
12.639	V	TV	2892
12.652	H	Al-Mosullia	2532
12.664	V	ART-Feed	30000
12.664	V	CH1-SCR	30000
12.664	V	CH2-SCR	30000
12.664	V	ERTU	30000
12.664	V	Feed-2	30000
12.664	V	JSC-Feed	30000
12.664	V	OrbitLine1	30000
12.664	V	OrbitLine2	30000
12.664	V	OrbitLine3	30000
12.664	V	Al-Majd Feed	30000
12.664	V	CH5	30000
12.664	V	CH8	30000
12.664	V	ESCA	30000
12.664	V	Feed-4	30000
12.664	V	N DRAMA	30000
12.664	V	HolyQuran Radio	30000
12.741	H	ERTU	7086
12.741	H	Service 2	7086
12.741	H	Ch-4	7086
12.741	H	test-e	7086

C-Band: INSAT 3E

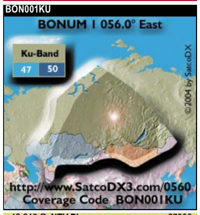
55.0 East

Freq GHz	Pol	Channel Name	Symbol rate
3.970	V	Test	4250
4.000	V	DDK-HISAR	4250

BONUM 1

56.0 East

BON001KU



Freq GHz	Pol	Channel Name	Symbol rate
12.245	R	NTV Plus	27500
12.303	L	Ermak	27500
12.322	R	NTV Plus	27500
12.456	L	Serebryany Dozhd	5000
12.476	R	NTV Plus	27500

NSS 703

57.0 East

NSS703GL

Freq GHz	Pol	Channel Name	Symbol rate
● 4.055	R	Alhurra TV 15 (H.264	26000
● 4.055	R	Alhurra-Iraq 17 (H.2	26000
● 4.055	R	AETN TV 340	26000
4.055	R	Default - Ch #1	26000
● 4.055	R	IBB OS Download 8	26000
● 4.055	R	IBB OS Download 9	26000
● 4.055	R	VOA IOR TV 420	26000
● 4.055	R	Cyprus/Abu Dhabi MW	26000
● 4.055	R	Farda Radio 448	26000
● 4.055	R	IBB VOA RFE/RL Ra	26000
● 4.055	R	IBB VOA RFE/RL Ra	26000
● 4.055	R	IBB VOA RFE/RL Ra	26000
● 4.055	R	IBB VOA RFE/RL Ra	26000
● 4.055	R	IBB VOA RFE/RL Ra	26000
● 4.055	R	IBB VOA RFE/RL Ra	26000
● 4.055	R	IBB VOA RFE/RL Ra	26000
● 4.055	R	IBB VOA RFE/RL Ra	26000
● 4.055	R	Khost/Tani MW 461	26000
● 4.055	R	RFA Radio 436	26000
● 4.055	R	RFA/VOA Radio 437	26000
● 4.055	R	Sawa Djibouti 421	26000
● 4.055	R	Sawa Egypt/Gulf Radi	26000
● 4.055	R	Sawa Gulf/VOA Djib	26000
● 4.055	R	Sawa Iraq/Iraq N-S 4	26000
● 4.055	R	Sawa Lebanon Radio 4	26000
● 4.055	R	Sawa N. Africa Radio	26000
● 4.055	R	Sawa Sudan Radio 455	26000
● 4.055	R	VOA Djibouti/Farda	26000
● 4.055	R	VOA Sawa Iraq Radi	26000
● 4.055	R	VOA/SAWA Levant Ra	26000
● 4.055	R	VOA/SAWA Radio 440	26000
● 3.910	L	TV	2892
● 3.932	L	ABAY	2892
● 4.071	L	Al_Hura	3500
● 12.551	V	bTV	9404
● 12.551	V	eUrotic ASTRA	9404
● 12.551	V	VTK	9404
● 12.551	V	BRAVO Radio	9404

INTELSAT 904

60.0 East

INT904K1

Freq GHz	Pol	Channel Name	Symbol rate
11.093	V	Nika TV	3980
11.093	V	Miliceiskaya Volna	3980
11.491	V	RTV Kuban	5787
11.491	V	Mayak Kubani	5787
11.491	V	Radio Roks-Region	5787
11.514	V	test	7600
11.529	V	Belarus TV	2893

INT904K2

Freq GHz	Pol	Channel Name	Symbol rate
11.555	H	Animal Planet Europe	29270
11.555	H	BBC World	29270
11.555	H	Discovery Travel & A	29270
11.555	H	El Arna	29270
11.555	H	Fox Kids Russia & Tu	29270
11.555	H	Hallmark Channel (Ru	29270
11.555	H	KTK TV	29270
11.555	H	MTV Russia	29270
11.555	H	NTK	29270
11.555	H	NTV	29270
11.555	H	Rakhat TV	29270
11.555	H	TV XXI	29270
11.555	H	Europa Plus Kazakhst	29270
11.595	H	Discovery Channel Ru	29270
11.595	H	EuroNews	29270
11.595	H	Eurosport Russia	29270
11.595	H	Kazakhstan TV	29270
11.595	H	Khabar TV	29270
11.595	H	MCM Europe	29270
11.595	H	ORT Kazakhstan	29270
11.595	H	Telekanal Rossiya	29270
11.595	H	Kazakhstan RV	29270
11.595	H	Russkoe Radio - Asia	29270

INTELSAT 902

62.0 East

Freq GHz	Pol	Channel Name	Symbol rate
4.180	L	Reuters TV	31530
4.180	L	Sky News Intl	31530
4.180	L	ABC	31530
4.180	L	Arqiva OU ch 2	31530
4.180	L	Arqiva OU ch1	31530
4.180	L	Intelsat 2	31530
4.180	L	Taiwan Radio	31530
10.973	V	Alantefaza TV	27500
10.973	V	IRIB TV1	27500
10.973	V	IRIB TV2	27500
10.973	V	IRIB TV3	27500
10.973	V	IRIB TV4	27500
10.973	V	IRIB TV5	27500
10.973	V	Jaam-e-Jam Internati	27500
10.973	V	IRIB Radio 1	27500
10.973	V	Radio Farhang	27500
10.973	V	Radio Farhang Varzes	27500
10.973	V	Radio Javan	27500
10.973	V	Radio Maaref	27500
10.973	V	Radio Payam	27500
10.973	V	Radio Quran	27500
10.973	V	Radio Quran Maaref	27500
10.973	V	Radio Salamt	27500
10.973	V	Radio Sarasari	27500
10.973	V	Radio Sport	27500
10.973	V	Sedaye Ashna	27500
11.043	V	Khozestan TV	3600
11.068	V	Mazandaran TV	3610
11.073	V	Azarbayjan TV	3600
11.078	V	Khorasan TV	3610
11.083	V	Esfahan TV	3600
11.088	V	Yazd TV	3610
11.093	V	Kerman TV	3600
11.103	V	Fars	10000
11.103	V	Fars TV	10000
11.103	V	feed	10000
11.103	V	khalij fars(T)	10000
11.105	H	VTV	3328
11.108	H	A1 PLUS	2170
11.148	H	KISS TV	2710
11.152	H	Prima TV	3333
11.175	H	KANAL-D	3333
11.186	H	AXA TV	2046
11.189	H	TELESHOP	2221
3.814	L	NTV (Kenya)	3852
3.814	L	Nation Radio	3852
3.837	L	Citizen TV	2466
3.967	L	E.TV	9326
3.967	L	Akermans	9326
3.967	L	Good Hope FM	9326
3.996	L	BTV 2	20000
3.996	L	BTV 3	20000
3.996	L	SABC 1	20000
3.996	L	SABC 2	20000
3.996	L	SABC 3	20000
3.996	L	BTV 1	20000
3.938	R	MBC (Mauritius)	2964
4.171	R	9xA	3960
● 11.151	H	KISS TV	5787
11.151	H	PRIMA TV	5787
11.190	H	BRAVA TV	2480

C-Band: INTELSAT 906

64.0 East

INT906CG

Freq GHz	Pol	Channel Name	Symbol rate
4.095	L	Atlantic	3680
4.095	L	News	3680
4.095	L	Sports	3680

Freq GHz	Pol	Channel Name	Symbol rate
● 3.654	R	TIM	5632
● 3.654	R	TPA1	5632
● 3.654	R	TV MOZAMBIQUE.	5632

C-Band: INTELSAT 704

66.0 East

Freq GHz	Pol	Channel Name	Symbol rate
4.055	R	CFI ASIE PRO	27500
4.055	R	TV5 ASIE	27500
4.055	R	CFI Audio 1	27500
4.055	R	RFI AS Francais	27500
4.055	R	RFI AS Langues	27500
4.055	R	RFI Cambodge	27500
4.055	R	RFI China	27500
4.055	R	RFI Francais	27500
4.055	R	RFI French-Eng	27500
4.055	R	RFI Kaboul	27500
4.055	R	RFI Langues1	27500
4.055	R	RFI Langues2	27500
4.055	R	RFI Musique	27500
4.055	R	RFI Palapa	27500
4.055	R	RFI Russia	27500
4.055	R	RFI WS Ouest	27500
4.055	R	RFI WS Sud	27500

South Africa

INTELSAT 7, 10

68.5 East

INT007SA

Freq GHz	Pol	Channel Name	Symbol rate
● 10.970	H	{Empty Name}	30000
11.050	H	BBC C	30000
11.050	H	BBC E	30000
11.050	H	BBC K	30000
11.050	H	BBC L	30000
11.050	H	ESPNC	30000
11.050	H	Nick	30000
11.050	H	SET A	30000
11.050	H	SMAX	30000
● 11.050	V	{Empty Name}	30000
11.081	H	Learn	14875
11.081	H	Health	14875
● 11.170	V	{Empty Name}	26652
11.625	V	BOTSWANA TELEVISI	15000
● 11.674	V	{Empty Name}	26652
● 12.682	H	3ABN	26657
● 12.682	H	Adonai	26657
● 12.682	H	Chosen	26657
● 12.682	H	CVV	26657
● 12.682	H	Day*	26657
● 12.682	H	Dvine	26657
● 12.682	H	Emmanuel TV	26657
● 12.682	H	ezekiel	26657
● 12.682	H	John 3v16	26657
● 12.682	H	LoveWorld	26657
● 12.682	H	Solid Rock	26657
● 12.682	H	TKC	26657
● 12.682	H	VwAfr	26657
● 12.682	H	Divine Radio	26657

INT010AV

Freq GHz	Pol	Channel Name	Symbol rate
12.522	H	Arsenal/Setanta News	26657
12.522	H	Fox Sports	26657
12.522	H	France 24	26657
12.522	H	NTA Plus	26657
12.522	H	Teletoon	26657
12.522	H	Zee Cinema	26657
12.522	H	Footschool	26657
12.522	H	My TV Promo	26657
12.562	H	ACBN	26657
12.562	H	Apostolic Oneness Ne	26657
● 12.562	H	BEN TV	26657
12.562	H	DBN	26657
12.562	H	Faith	26657
12.562	H	Noursat	26657
12.562	H	Novo Tempo	26657
12.562	H	OMEGA	26657
12.562	H	Press TV	26657
12.562	H	Supreme Master TV	26657
12.562	H	View Africa Promo	26657
12.562	H	1Africa	26657
12.562	H	CVC Africa	26657
12.562	H	IRIB3/IRIB6	26657
12.575	V	Mana 2	3378
12.575	V	Mana Africa	3378
12.722	H	AIT	26657
12.722	H	Baby TV	26657
12.722	H	BBC World	26657
12.722	H	Fashion TV	26657
12.722	H	MCM TOP	26657
12.722	H	MGM	26657
12.722	H	My TV Africa	26657
12.722	H	NatGeo Adventure	26657
12.722	H	Setanta Sports	26657
12.722	H	Trace TV	26657
● 12.722	V	{Empty Name}	26656

C-Band: INTELSAT 7,10

68.6 East

INT007CV

Freq GHz	Pol	Channel Name	Symbol rate
● 3.557	V	Sin-Pakistan	3250
3.662	V	DM Digital World	14074
3.662	V	KBC	14074
3.662	V	Noor TV	14074
3.662	V	View Asia	14074
● 4.003	H	Service 2	2963
4.011	V	Reform TV	2200
4.033	V	DD Bharti	19559
4.033	V	DD India	19559
4.033	V	DD News	19559
4.033	V	DD Sports	19559
4.033	V	DDFeeds CPC	19559
4.160	H	EXPRESS NEWS	3618

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INT010CH

Freq Pol GHz	Channel Name	Symbol rate
3.745 H	Premium	16175
3.745 H	525 English	16175
3.745 H	525 Japanese	16175
3.745 H	625 English	16175
3.745 H	625 Japanese	16175
3.745 H	Radio 01	16175
3.765 V	MGM	2950
3.767 H	ZEE SPORTS	6500
3.767 H	ZEE SPORTS USA	6500
● 3.773 V	{Empty Name}	2940
3.774 H	HUMTV Service	3300
3.777 V	AASTHA INT.	2940
3.811 H	CNBC_Pakistan	3313
● 3.836 H	Aajtak	19850
● 3.836 H	Aajtak Tez	19850
● 3.836 H	Delhi Aajtak	19850
● 3.836 H	Headlines Today	19850
● 3.836 H	INT AAJTAK	19850
● 3.836 H	INT HEADLINES TOD	19850
3.836 H	S10	19850
3.836 H	S7	19850
3.836 H	S8	19850
3.836 H	S9	19850
3.927 H	A copy of MAX Intern	26500
3.927 H	A copy of SET_Intern	26500
3.927 H	A copy of SETMAX	26500
3.927 H	Download 200	26500
3.927 H	MAX International	26500
3.927 H	MAX TRAI	26500
3.927 H	MAX_UK	26500
3.927 H	MIDDLE EAST	26500
3.927 H	PIX	26500
3.927 H	SAB INTL	26500
3.927 H	SABTV	26500
3.927 H	SET_Encrypted	26500
3.927 H	SET_Encrypted Finger	26500
3.927 H	SET_International	26500
3.927 H	SETMAX	26500
3.974 H	Cartoon India	19500
3.974 H	Cartoon India ENGL	19500
3.974 H	Cartoon India HIND	19500
3.974 H	Cartoon India TAMI	19500
3.974 H	Cartoon India TELE	19500
3.974 H	Cartoon Pakistan	19500
3.974 H	CNN India	19500
3.974 H	HBO India	19500
3.974 H	Pogo	19500
3.974 H	Real Global Broadcas	19500
3.974 H	WB India	19500
3.974 H	WB Pakistan	19500
4.034 H	COLORS	20500
4.034 H	MTV India	20500
4.034 H	Nickelodean-Nick Ind	20500
4.034 H	VH1 India	20500
4.034 H	XYZ	20500
4.064 H	B4U Movies	19850
4.064 H	Discovery	19850
4.064 H	SIS	19850
4.064 H	Al Jazeera	19850
4.064 H	B4U Music	19850
4.064 H	E!	19850
4.064 H	EWTN	19850
4.064 H	BBC WS Radio	19850
4.064 H	EWTN Radio	19850
4.064 H	Voice of Tibet	19850
4.064 H	WRN AAP1	19850
4.103 H	IBN	5720
4.103 H	SAW	5720
4.117 H	SAMAA	3333
4.124 V	AAG	19850
4.124 V	AAG INTL	19850
4.124 V	GEO	19850
4.124 V	GEO ME.	19850
4.124 V	GEO NEWS	19850
4.124 V	GEO SUPER	19850
4.124 V	GEO UK	19850
4.124 V	GEO USA	19850
4.126 H	DAWN NEWS TV	3255
4.131 H	Ujala TV	2572
4.143 H	ROHI TV	3306
4.150 H	DUNYA ENT.	6600
4.150 H	DUNYA NEWS	6600
4.165 H	ROYAL TV	3255

INT010CV

Freq Pol GHz	Channel Name	Symbol rate
3.716 V	BBC E	20600
3.716 V	BBC L	20600
● 3.716 V	E!	20600
3.716 V	go	20600
3.716 V	KAIDy	20600
3.716 V	Learn	20600
3.716 V	MM1	20600
3.716 V	MNetE	20600
3.716 V	MNetW	20600
3.716 V	SS1	20600
3.716 V	70's	20600
3.716 V	AdulC	20600
3.716 V	Afric	20600
3.716 V	Beaut	20600
3.716 V	CampR	20600
3.716 V	ClasJ	20600
3.716 V	ClasR	20600
3.716 V	Contl	20600
3.716 V	Dance	20600
3.716 V	FrenC	20600
3.716 V	Fut	20600
3.716 V	Gospl	20600
3.716 V	Htrax	20600
3.716 V	LiteC	20600
3.716 V	R'nR	20600
3.716 V	Regga	20600
3.716 V	SmthJ	20600
3.716 V	SoftH	20600
3.716 V	Symph	20600
3.716 V	UBeat	20600
3.716 V	Urban	20600
3.743 V	AMag	20600
3.743 V	BBA 3	20600
3.743 V	C+H	20600
3.743 V	ChO	20600
3.743 V	CNN	20600
3.743 V	Dsny	20600
3.743 V	MStar	20600
3.743 V	SS2	20600
3.743 V	Ssupd	20600
3.783 V	CGNTV	2964
3.783 H	PEACE TV	3250
● 3.787 V	India - Australia Ne	3617
● 3.787 V	RAS2	3617
● 3.787 V	RAS3	3617
● 3.787 V	RAS4	3617
● 3.787 V	RAS5	3617
● 3.787 V	RAS6	3617
3.796 V	AVT KHYBER	7300
3.796 V	K2	7300
3.796 V	KHYBER NEWS	7300
3.808 V	Rai Africa	10340
3.808 V	Reality TV	10340
3.808 V	God Asia	10340
3.808 V	Supreme Master TV	10340
3.808 V	Multilingue	10340
3.808 V	RNW-7	10340
3.808 V	satelRadio	10340
3.836 V	Actio	20600
3.836 V	BBC W	20600
3.836 V	CN	20600
3.836 V	Disc	20600
3.836 V	ESPN	20600
3.836 V	HallM	20600
3.836 V	MTV	20600
3.836 V	NaGeo	20600
3.836 V	SS7	20600
3.836 V	TV5	20600
3.836 V	BBC1	20600
3.836 V	BBC2	20600
3.836 V	BBC3	20600
3.836 V	CRI	20600
3.836 V	DMove	20600
3.836 V	Event	20600
3.836 V	RAI R	20600
3.836 V	RFI	20600
3.836 V	VOA	20600
3.836 V	WRN	20600
3.863 V	Bloom	20600
3.863 V	FTV	20600
3.863 V	HIST	20600
3.863 V	MM2	20600
3.863 V	Rhema	20600
3.863 V	Serie	20600
3.863 V	SkyN	20600
3.863 V	SS3	20600
3.863 V	SS5	20600
3.863 V	SS6	20600
3.863 V	Travl	20600
3.863 V	ZnRea	20600
3.863 V	CII	20600
3.863 V	TAR	20600
3.864 H	ARY Digital UK	19850
3.864 H	ARY Digital USA	19850
3.864 H	ARY Middle East	19850
3.864 H	ARY ONE World	19850
3.864 H	HBO ARY	19850
3.864 H	Nick ARY	19850
3.864 H	ARY Asia	19850
3.864 H	ARY One World	19850
3.864 H	ARY Qtv	19850
3.864 H	The Musik	19850
3.900 V	Nimbus 1	12300
3.900 V	Nimbus 2	12300
3.913 V	KBS WORLD P	6510
3.913 V	YTN P	6510
3.920 V	LA CADENA	3000
3.924 V	FETV 0	3003
3.974 V	APL India	19850
3.974 V	BBC World News	19850
3.974 V	DSC India - English	19850
3.974 V	DSC India - Hindi	19850
3.974 V	DTL India	19850
3.974 V	Encoder 4	19850
3.974 V	Encoder 6	19850
3.974 V	BBC Burmese	19850
4.054 V	ArirangTV W1	4400
4.059 V	CTS	3530
● 4.064 V	Times Now	4610
4.069 V	Hope Channel Intl	3002
4.069 V	Hope Intl Alt Lang1	3002
4.069 V	Hope Intl Alt Lang2	3002
4.069 V	Lifetalk Radio	3002
4.075 V	Hungama Tv	4003
4.083 V	CRI Radio	3428
4.087 H	CCTV 4	9375
4.087 H	CCTV 9	9375
4.087 H	CCTV E	9375
4.087 H	CCTV F	9375
4.156 H	Express English	2930
4.156 H	Express Urdu	2930
4.173 V	INDIA TV	3000
● 4.178 V	ZOOM	4000
● 4.178 V	Zoom	4000
4.184 H	24x7	20000
4.184 H	INDIA	20000
4.184 H	METRO	20000
4.184 H	PROFIT	20000
4.184 H	TEST2	20000
4.184 H	TEST3	20000
4.184 H	TEST4	20000
4.189 V	IMAGINE	12207
4.189 V	LIFEST	12207
4.189 V	LUMIER	12207
4.189 V	SHWBIZ	12207

South East Asia
EUTELSAT W5
70.5 East

Freq Pol GHz	Channel Name	Symbol rate
11.305 V	AIT International	17360
11.305 V	C-Music	17360
11.305 V	EuroNews Asia	17360
11.334 V	NTD TV	6511
11.334 V	Minghui Radio	6511
11.334 V	Sound of Hope Statio	6511
11.334 V	Sound of Hope Statio	6511
11.242 V	CH 450 VOA TV EUR	27500
11.242 V	CH 452 VOA TV ASI	27500
11.242 V	CH 453 VOA/RFE/RL	27500
11.242 V	CH 454 VOA/RFE/RL	27500
11.242 V	CH 455 VOA/RFE/RL	27500
11.242 V	CH 451 VOA/RFE/RL	27500
11.242 V	CH 456 VOA/RFE/RL	27500
11.242 V	CH 457 VOA/RFE/RL	27500
11.242 V	CH 458 VOA/RFE/RL	27500
11.242 V	CH 459 VOA	27500
11.242 V	CH 460 VOA	27500
11.242 V	CH 461 VOA/RFE/RL	27500
11.242 V	CH 462 RFA	27500
11.242 V	CH 463 VOA/RFE/RL	27500
11.242 V	CH 464 VOA	27500
11.242 V	CH 465 VOA	27500
11.242 V	CH 466 VOA	27500
11.242 V	CH 467 VOA	27500

Europe
EUTELSAT W5
70.6 East

Freq Pol GHz	Channel Name	Symbol rate
11.214 H	ENG	13020
11.214 H	FR	13020
11.214 H	ENGRAD	13020
11.214 H	FRRAD	13020
11.214 H	CBCRAD	13020
11.214 H	DND_Audio	13020
11.378 V	TVBPV1	7440
11.378 V	TVBPV2	7440
11.378 V	TVBPV3	7440
11.378 V	TVBPV4	7440
11.210 H	ENG	6509
11.210 H	FR	6509
11.210 H	ENGRAD	6509
11.210 H	FRRAD	6509
11.210 H	CBCRAD	6509
11.210 H	DND_Audio	6509

Africa
C-Band: INTELSAT 4
72.0 East

Freq Pol GHz	Channel Name	Symbol rate
3.730 H	CCTV	10500
3.730 H	DCC	10500
3.730 H	RTGA	10500
3.730 H	RTNC 1	10500
3.730 H	RADIO 1	10500
3.730 H	RADIO 2	10500
3.730 H	RADIO 3	10500
3.730 H	RADIO 4	10500
3.730 H	RADIO SARVICE 5	10500
● 3.710 H	{Empty Name}	2083

Europe
INTELSAT 4
72.1 East
INT004K1

Freq Pol GHz	Channel Name	Symbol rate
12.518 V	NEWS ONE	8232
12.518 V	RU MUSIC	8232
12.518 V	EUROPA FM	8232
12.518 V	RADIO.5	8232

South Africa
INTELSAT 4
72.2 East
INT004SH

Freq Pol GHz	Channel Name	Symbol rate
12.505 H	eTV	2500
12.544 H	Asianet	1480
12.544 H	eTV	1480
12.544 V	Asianet	1480

C-Band: INSAT 3C
74.0 East

Freq Pol GHz	Channel Name	Symbol rate
3.780 H	DD NATIONAL 3C	6250
4.166 H	CEC-UGC-4	26000
4.166 H	EKLAVYA-3	26000
4.166 H	GYANDARSHAN-1	26000
4.166 H	GYANDARSHAN-2	26000
4.166 H	GYANVANI-6	26000
4.166 H	KISAN-5	26000

EDUSAT, INSAT 4CR
74.1 East
EDU001KU

Freq Pol GHz	Channel Name	Symbol rate
10.954 H	DSERT-VIDYAVAHINI	1700
10.958 H	EDUSAT-VTU	1808
10.966 H	SLRC2	2143
● 10.969 H	KAIRALI TV	2000
10.979 H	VICTERS	3000
● 11.674 V	COCHIN.	3000
● 11.678 V	DEFAULT	3000

South-East Asia
ABS-1
75.0 East
ABS001SB

Freq Pol GHz	Channel Name	Symbol rate
12.507 H	ALGhadeer	2500
12.579 H	1TVRUS Asia	22000
12.579 H	3ABN	22000
12.579 H	APOSTOLIC ONENESS	22000
12.579 H	JCTV	22000
12.579 H	NET-25	22000
12.579 H	Smile of A Child	22000
12.579 H	Supreme Master TV	22000
12.579 H	TBN	22000
12.579 H	The Church Channel	22000
● 12.579 H	The Healing Channel	22000
12.600 H	ROCD	5168

C-Band: ABS-1
75.1 East
ABS001CB

Freq Pol GHz	Channel Name	Symbol rate
● 3.579 H	ABTV2	9600
● 3.579 H	ABTV3	9600
● 3.579 H	ABTV4	9600
● 3.579 H	ABTV1	9600
● 3.579 H	ABTV5	9600
● 3.579 H	ABTV6	9600
● 3.579 H	ABTV7	9600
● 3.579 H	BIG FM	9600
● 3.579 H	FM 90.5	9600
● 3.579 H	PSL	9600
● 3.579 H	RS RADIO	9600
● 3.607 H	MTI	6110
● 3.653 V	UKTV	8880
● 3.653 V	RR-PROMO	8880
3.660 H	World Fashion Channe	27500
● 3.660 H	DESH TV	27500
3.660 H	GCN TV	27500
3.660 H	ITV+	27500

China
ABS-1
75.2 East
ABS001NB

Freq Pol GHz	Channel Name	Symbol rate
12.519 V	Israel+	22000
12.519 V	TV1000 (+21)	22000
12.519 V	TV1000 East (FSS)	22000
12.519 V	TV1000 Ru Kino	22000
12.519 V	Viasat Explorer (FSS	22000
12.519 V	Viasat History (FSS)	22000
12.519 V	Viasat Sport	22000
12.519 V	DTV-2	22000
12.519 V	Radio 21	22000
12.549 V	24Techno	22000
12.549 V	AXN-ScFi-Ru	22000
12.549 V	Detsky	22000
12.549 V	HCT	22000
12.549 V	Russkij illuzion	22000
12.549 V	Russkiy Extream	22000
12.549 V	TV-21	22000
12.549 V	Fashion-TV	22000
12.549 V	Gameplay	22000
12.549 V	illuzion +	22000
12.549 V	Inter+	22000
12.549 V	Zoo	22000
12.610 V	Fox Crime	22000
12.610 V	Fox Life	22000
12.610 V	Jetix Russia	22000
12.610 V	Gameplay	22000
12.610 V	Prodengi	22000
12.610 V	TPO	22000
12.641 V	CTC+7	22000
12.641 V	HOME+7R	22000
12.641 V	DTV-0	22000
12.641 V	HTB	22000
12.641 V	HTB-3	22000
12.641 V	RBC TV	22000
12.671 V	Discovery Channel	22000
12.671 V	ESP Russian	22000
12.671 V	ESP2 Russian	22000
12.671 V	Fenix-Art	22000
12.671 V	Mat' i Ditya	22000
12.671 V	NAT GEO	22000
12.671 V	2X2	22000
12.671 V	LUXE TV	22000
12.671 V	TVclub	22000
12.671 V	DOPO*HOE	22000
12.671 V	New Life Radio	22000
12.695 V	Endemol	10000
12.695 V	MGOU	10000
12.695 V	Mir Service	10000
12.695 V	MIR-TV	10000
12.695 V	MIR-TV +3	10000
12.695 V	Videofilm	10000
12.695 V	MIR Radio Service	10000
12.695 V	Radio MIR	10000
12.740 V	Tajik TV	7242
12.740 V	TV Bakhoriston	7242
12.740 V	TV Safina	7242
12.740 V	Tajik TV	7247
12.740 V	TV Bakhoriston	7247
12.740 V	TV Safina	7247

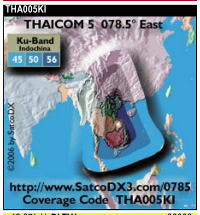
TELSTAR 10
76.5 East

Freq Pol GHz	Channel Name	Symbol rate
12.280 V	AD-HOC[UB05]	22425
12.280 V	BLTV 人間衛視 [UB02]	22425
12.280 V	CONGRESS 國會衛星 [U	22425
12.280 V	HZ 華藏[UB07]	22425
12.280 V	LIFE TV 生命電視台[UB04	22425
12.280 V	MAC TV 宏觀(UB10)	22425
12.280 V	TZUCHI 慈濟大愛 [UB01	22425
12.280 V	UCTV 法界衛星 新[UB03]	22425
12.280 V	大利電視台[UB06]	22425
12.280 V	蓬萊綜合台[UB09]	22425
12.308 V	CSN °ê®õ[UB306]	22425
12.308 V	EF TV¹B³q[UB304]	22425
12.308 V	HB ¤¤µØ¥ø·~ [UB303]	22425
12.308 V	HS «í¥Í[UB307]	22425
12.308 V	TACT¥xÃÀ[UB301]	22425
12.308 V	FINANCE °]°T°]¸g¥x	22425
12.308 V	SBN ¾Çªì°]¸g[UB308]	22425
12.308 V	World ¥@¬É[UB302]	22425
12.308 V	3033_KFC	22425
12.308 V	3001_US New songs &	22425
12.308 V	3002_US Popular Song	22425
12.308 V	3003_Sweet Love Song	22425
12.308 V	3004_50 & 60 Popular	22425
12.308 V	3005_R&B	22425
12.308 V	3006_Hip Hop	22425
12.308 V	3007_Party Music	22425
12.308 V	3008_Rock Music	22425
12.308 V	3009_Jazz Vocal	22425
12.308 V	3010_Jazz Main Strea	22425
12.308 V	3011_Lounge	22425
12.308 V	3012_Enke	22425
12.308 V	3013_Japanese Popuar	22425
12.308 V	3014_J&T Station	22425
12.308 V	3015_Bossa Nova	22425
12.308 V	3016_Classical	22425
12.308 V	3017_Piano Easy List	22425
12.308 V	3018_Crystal Music	22425
12.308 V	3019_Soft Hearing	22425
12.308 V	3020_Season Music	22425
12.308 V	3021_Old Deck	22425
12.308 V	3022_Chinese Best Se	22425
12.308 V	3023_Chinese Soft So	22425
12.308 V	3024_Chinese Classic	22425
12.308 V	3025_Children Music	22425
12.308 V	3026_Easy Listening	22425
12.308 V	3027_Birthday Songs	22425
12.308 V	3028_Wedding And Goo	22425
12.308 V	3029_Sweet Love Chan	22425
12.308 V	3030_Pop Music Pop	22425
12.308 V	3031_3357	22425
12.308 V	3032_Napoli	22425
12.308 V	3034_Audrey	22425
12.308 V	3035_KF	22425
12.308 V	3036_Crystal &Piano	22425
12.308 V	3037_Fashion Music	22425
12.308 V	3038_Soft Music	22425
12.308 V	3039_KG	22425
12.308 V	3040_Asia Radio	22425
12.406 V	afa TV µØ¤HÀ¸¼@[UB61	30000
12.406 V	GOLDSUN TV °ê¿³[U	30000
12.406 V	HOLLYWOOD ¦nµÜ¶õ¹	30000
12.406 V	JET[UB606]	30000
12.406 V	PTV-1 ¤¤¤Ñ·s»D[UB6	30000
12.406 V	PTV-2 ¤¤¤Ñ°¡¦X[UB6	30000
12.406 V	PTV-3 ¤¤¤Ñ®T¼Ö[UB6	30000
12.406 V	afa TV µØ¤H°Ó·~¥x[UB	30000
12.406 V	GOOD2 ¦n®ø®§¤G¥x[U	30000
12.406 V	Null'w³ÆÀW¹D[UB600]	30000
12.406 V	Null'w³ÆÀW¹D[UB604]	30000
12.406 V	«ax(UB612)	30000
12.406 V	133_KFC	30000
12.406 V	101_US New songs & C	30000
12.406 V	102_US Popular Songs	30000
12.406 V	103_Sweet Love Songs	30000
12.406 V	104_50 & 60 Popular	30000
12.406 V	105_R&B	30000
12.406 V	106_Hip Hop	30000
12.406 V	107_Party Music	30000
12.406 V	108_Rock Music	30000
12.406 V	109_Jazz Vocal	30000
12.406 V	110_Jazz Main Stream	30000
12.406 V	111_Lounge	30000
12.406 V	112_Enke	30000
12.406 V	113_Japanese Popuar	30000
12.406 V	114_J&T Station	30000
12.406 V	115_Bossa Nova	30000
12.406 V	116_Classical	30000
12.406 V	117_Piano Easy Liste	30000
12.406 V	118_Crystal Music	30000
12.406 V	119_Soft Hearing	30000
12.406 V	120_Season Music	30000
12.406 V	121_Old Deck	30000
12.406 V	122_Chinese Best Sel	30000
12.406 V	123_Chinese Soft Son	30000
12.406 V	124_Chinese Classica	30000
12.406 V	125_Children Music	30000
12.406 V	126_Easy Listening	30000
12.406 V	127_Birthday Songs	30000
12.406 V	128_Wedding And Good	30000
12.406 V	129_Sweet Love Chann	30000
12.406 V	130_Pop Music Pop	30000
12.406 V	131_3375	30000
12.406 V	132_Napoli	30000
12.406 V	134_Audrey	30000
12.406 V	135_KF	30000
12.406 V	136_Crystal &Piano M	30000
12.406 V	137_Fashion Music	30000
12.406 V	138_Soft Music	30000
12.406 V	139_KG	30000
12.406 V	140_Asia Radio	30000
12.434 H	DVB	10000
12.434 H	ZHONGGUANG	10000
12.462 V	Boss Golf	22425
12.462 V	CTS 華視	22425
12.462 V	CTV 中視	22425
12.462 V	FTV 民視	22425
12.462 V	PTS 公視	22425
12.462 V	TVBS	22425
12.462 V	Asia Trave 亞洲旅遊	22425
12.462 V	PR-CH 公告頻道	22425
12.462 V	TTV台視	22425
12.491 V	DesireTV	22425
12.491 V	DISNEY 迪士尼	22425
12.491 V	G&PTV	22425
12.491 V	SETI 三立國際	22425
12.491 V	TVBS-G	22425
12.491 V	TVBS-N	22425
12.491 V	UNTV	22425
12.491 V	FTV News	22425
12.530 V	ET Variety 東森綜合台	30000
12.530 V	ETtoday 財經生活台	30000
12.530 V	ETTV ASIA 東森亞洲衛視	30000
12.530 V	ETTV Drama 東森戲劇台	30000
12.530 V	ETTV MOVIE東森電影台	30000
12.530 V	ETTV News 東森新聞台	30000
12.530 V	ETTV SERVICE 12	30000
12.530 V	ETTV SERVICE 6	30000
12.530 V	STV 2	30000
12.530 V	STV 超視台	30000
12.530 V	Yo Yo TV 東森幼幼台	30000
12.530 V	ET ASIA NEWS 東森亞洲新	
30000		
12.530 V	ETTV SERVICE 10	30000
12.530 V	ETTV SERVICE 11	30000
12.700 V	Xizang TV1	5656
12.700 V	Xizang TV2	5656

C-Band: TELSTAR 10
76.6 East
TEL010CG

Freq Pol GHz	Channel Name	Symbol rate
3.646 V	Racing International	5065
● 3.646 V	SA Clean Feed	5065
3.658 H	SHANGRI-LA TV	3215
3.680 H	BBC India	27500
3.680 H	BBC India Hindi	27500
3.680 H	BBC Knowledge	27500
3.680 H	BBC LifeStyle	27500
3.680 H	BIG 10	27500
3.680 H	CBeeBies	27500
3.680 H	Tamil Box Office	27500
3.680 H	Adhoc Feed	27500
3.680 H	ERT	27500
3.706 V	GLTV	6715
3.706 V	International 2	6715
● 3.720 H	Hallmark Asia NTSC	29270
● 3.720 H	Hallmark Asia NTSC	29270
● 3.720 H	Hallmark Asia NTSC	29270
● 3.720 H	Hallmark Asia PAL	29270
● 3.720 H	Hallmark Asia PAL	29270
● 3.720 H	Hallmark Asia PAL	29270
● 3.720 H	Hallmark Asia PAL	29270
● 3.720 H	KidsCO AA NTSC	29270
● 3.720 H	KidsCO AA PAL	29270
● 3.720 H	KidsCO Cantonese Fee	29270
● 3.720 H	Virtual Hallmark A	29270
● 3.720 H	Virtual Hallmark A	29270
● 3.720 H	OU	29270
3.760 H	ALSHA	28066
3.760 H	BOM	28066
3.760 H	ESC1	28066
3.760 H	K15	28066
3.760 H	MAZZ	28066
3.760 H	MKTV	28066
3.760 H	NDM	28066
3.760 H	NEW TV	28066
3.760 H	NVAR	28066
3.760 H	ROTT	28066
● 3.760 H	CH30	28066
3.760 H	DSPT	28066
3.760 H	DTV	28066
3.760 H	SAMA	28066
3.760 H	SITEL	28066
3.760 H	AGNI	28066
3.760 H	ALB	28066
3.760 H	ALRA	28066
3.760 H	BH1R	28066
● 3.760 H	DEUTERO 91.1	28066
3.760 H	DWLS	28066
3.760 H	ELQN	28066
3.760 H	IASA	28066
3.760 H	MGF	28066
● 3.760 H	PROTO 97.2	28066
3.760 H	ROSA	28066
3.760 H	SOUT	28066
3.760 H	SUPERFM	28066
● 3.760 H	TRITO 94.8	28066
● 3.760 H	R130	28066
3.780 V	4E	28062
3.780 V	ALPHA	28062
3.780 V	ALTG	28062
3.780 V	ATV	28062
3.780 V	ESTAR	28062
3.780 V	EURO D	28062
3.780 V	MAD	28062
3.780 V	MEGA	28062
3.780 V	NTV	28062
3.780 V	SHOW	28062
3.780 V	STAR	28062
3.780 V	AGHAPY TV	28062
3.780 V	ERT	28062
3.780 V	RIKSAT	28062
3.780 V	SAMANYOLU TV	28062
3.780 V	ALEM FM	28062
3.780 V	ATHN	28062
3.780 V	BEST FM	28062
3.780 V	BURC	28062
3.780 V	COG	28062
3.780 V	ERAS	28062
3.780 V	ESFM	28062
3.780 V	ISFM	28062
3.780 V	KRAL FM	28062
3.780 V	MELO	28062
3.780 V	RADIO D	28062
3.780 V	REBLAIKA	28062
3.780 V	SFERA	28062
3.780 V	SOHO FM	28062
3.780 V	THES	28062
3.787 H	ETV ENC B	4600
● 3.793 H	Diganta TV	4340
● 3.840 H	ART TV	27500
● 3.840 H	BABY TV	27500
● 3.840 H	BBC WORLD	27500
● 3.840 H	EURONEWS	27500
● 3.840 H	Fashion TV	27500
● 3.840 H	KidsCo	27500
● 3.840 H	MCM TOP	27500
● 3.840 H	MTV BASE	27500
● 3.840 H	LUXE.TV HD	27500
3.840 H	BFTV	27500
● 3.840 H	FEED	27500
● 3.840 H	CTV	27500
3.840 H	DVB	27500
3.840 H	LOVE MUSIC	27500
3.840 H	My TV	27500
3.840 H	THE SOUNDTRACK CH	27500
3.840 H	Angel 3-L/4-R	27500
3.840 H	Angel6PalauFM	27500
4.031 V	TVM	6312
4.031 V	VOM	6312
4.034 H	CHANNEL-I	4300
4.057 H	Service 2	3215
4.071 H	BBC Arabic	13021
4.071 H	BBC Asia Feed 1	13021
● 4.071 H	BBC Asia Feed 2	13021
● 4.071 H	BBC Asia Feed 3	13021
● 4.071 H	BBC Asia Feed 4	13021
● 4.071 H	BBC Asia Feed 5	13021
● 4.071 H	BBC Asia Feed 6	13021
4.071 H	BBC Azeri	13021
4.071 H	BBC Bengali	13021
4.071 H	BBC Burmese	13021
4.071 H	BBC Dari	13021
4.071 H	BBC English (E Asi	13021
4.071 H	BBC English (Europe)	13021
4.071 H	BBC English (S Asi	13021
4.071 H	BBC English Mid-Ea	13021
4.071 H	BBC English News	13021
4.071 H	BBC Farsi	13021
4.071 H	BBC Hindi	13021
4.071 H	BBC Indonesian	13021
4.071 H	BBC Kirghiz	13021
4.071 H	BBC Mandarin	13021
4.071 H	BBC Pashto	13021
4.071 H	BBC Russian	13021
4.071 H	BBC Russian (C Asi	13021
4.071 H	BBC Tajik	13021
4.071 H	BBC Turkish	13021
4.071 H	BBC Urdu	13021
4.071 H	BBC Uzbek	13021
4.071 H	BBC Vietnamese	13021
4.086 H	BKT 1	2532
● 4.089 H	BOISHAKHI TV	4300
4.096 H	Channel One	4080
4.106 H	MNC INTERNATIONAL	3125
4.147 H	IslamicTV	3600
4.174 H	nTV DVB	7400
4.174 H	RTV DVB	7400
● 3.880 H	DC-Asia (Bahasa)	28125
● 3.880 H	DC-Asia (NTSC) Phi	28125
● 3.880 H	DC-Asia (NTSC) Phi	28125
● 3.880 H	DC-Asia (PAL)	28125
● 3.880 H	DC-Asia (Thai)	28125
● 3.880 H	DC-Asia with Cue-Ton	28125
● 3.880 H	DC-India (English)	28125
● 3.880 H	DC-India (Hindi)	28125
● 3.880 H	DC-India (Tamil)	28125
● 3.880 H	DC-India (Telugu)	28125
● 3.880 H	DC-Korea (NTSC) w/	28125
● 3.880 H	PDC-Asia (Bahasa)	28125
● 3.880 H	PDC-Asia (NTSC)	28125
● 3.880 H	PDC-Asia (PAL)	28125
● 3.880 H	PDC-Asia (Thai)	28125
● 3.880 H	PDC-India (English)	28125
● 3.880 H	Toon-India (English)	28125
● 3.880 H	Toon-India (Hindi)	28125
● 3.880 H	Toon-India (Tamil)	28125
● 3.880 H	Toon-India (Telugu)	28125

THAICOM 2,5
78.5 East
THA005KI



Freq Pol GHz	Channel Name	Symbol rate
12.271 H	DLTV1	30000
12.271 H	DLTV10	30000
12.271 H	DLTV11	30000
12.271 H	DLTV12	30000
12.271 H	DLTV13	30000
12.271 H	DLTV14	30000
12.271 H	DLTV15	30000
12.271 H	DLTV2	30000
12.271 H	DLTV3	30000
12.271 H	DLTV4	30000
12.271 H	DLTV5	30000
12.271 H	DLTV6	30000
12.271 H	DLTV7	30000
12.271 H	DLTV8	30000
12.271 H	DLTV9	30000
12.271 H	ETV	30000
12.271 H	MONY	30000
12.271 H	TGN	30000
12.271 H	FM92	30000
● 12.313 H	D-Channel	30000
12.313 H	EarthOne	30000
● 12.313 H	Fan TV	30000
12.313 H	FilMagix	30000
12.313 H	Future1	30000
12.313 H	KIDS CLUB	30000
12.313 H	Modern9 TV	30000
12.313 H	NBT	30000
12.313 H	Newsline	30000
12.313 H	Thai TV3	30000
12.313 H	TPBS	30000
12.313 H	TV5	30000
12.313 H	TV7	30000
12.313 H	TVTV	30000
12.313 H	Dhamma	30000
12.313 H	Parliament TV	30000
12.313 H	Test	30000
12.313 H	Vacant	30000
12.313 H	FM 101.0 MHz	30000
12.313 H	FM 101.75 MHz	30000
12.313 H	FM 102.5 MHz	30000
12.313 H	FM 103.5 MHz	30000
● 12.272 H	DLTV1	30000
● 12.272 H	DLTV10	30000
● 12.272 H	DLTV11	30000
● 12.272 H	DLTV12	30000
● 12.272 H	DLTV13	30000
● 12.272 H	DLTV14	30000
● 12.272 H	DLTV15	30000
● 12.272 H	DLTV2	30000
● 12.272 H	DLTV3	30000
● 12.272 H	DLTV4	30000
● 12.272 H	DLTV5	30000
● 12.272 H	DLTV6	30000
● 12.272 H	DLTV7	30000
● 12.272 H	DLTV8	30000
● 12.272 H	DLTV9	30000
● 12.272 H	ETV	30000
● 12.272 H	MONY	30000
● 12.272 H	TGN	30000
● 12.272 H	FM92	30000
● 12.313 V	D-Channel	30000
12.313 V	EarthOne	30000
● 12.313 V	Fan TV	30000
12.313 V	FilMagix	30000
12.313 V	KIDS CLUB	30000
12.313 V	Modern9 TV	30000
12.313 V	NBT	30000
12.313 V	Thai TV3	30000
12.313 V	TPBS	30000
12.313 V	TV5	30000
12.313 V	TV7	30000
12.313 V	TVTV	30000
12.313 V	Dhamma	30000
12.313 V	Parliament TV	30000
12.313 V	FM 101.0 MHz	30000
12.313 V	FM 101.75 MHz	30000
12.313 V	FM 102.5 MHz	30000
12.313 V	FM 103.5 MHz	30000
● 12.355 H	Australia Television	30000
12.355 H	D-Asian	30000
12.355 H	D-Movie	30000
● 12.355 H	FOX Crime	30000
● 12.355 H	Future3	30000
● 12.355 H	Future4	30000
12.355 H	Lao Star Channel	30000
12.355 H	LNTV	30000
12.355 H	Music Lifestyle	30000
12.355 H	MySci	30000
● 12.355 H	Nat Geo Wild	30000
12.355 H	Next Step Television	30000
12.355 H	Samrujlok	30000
12.355 H	Siam Sport Channel	30000
12.355 H	T-Sports	30000
12.355 H	Look Thoung Rak Thai	30000
12.355 H	Popper Radio	30000
12.438 H	CH-3	30000
12.438 H	CH-5	30000
12.438 H	CH-7	30000
12.438 H	CH-9	30000
12.438 H	FL A	30000
12.438 H	HBO	30000
12.438 H	MOVH	30000
12.438 H	NBT	30000
12.438 H	RS09	30000
12.438 H	SMES	30000
12.438 H	TNN	30000
12.438 H	TNN2	30000
12.438 H	TPBS	30000
12.438 H	70'S	30000
12.438 H	80'S	30000
12.438 H	BLUE	30000
12.438 H	CLAS	30000
12.438 H	CLRK	30000
12.438 H	CONT	30000
12.438 H	DISC	30000
12.438 H	INST	30000
12.438 H	JAZZ	30000
12.438 H	JVOC	30000
12.438 H	LOVE	30000
12.438 H	R&B	30000
12.438 H	R&R	30000
12.438 H	RATP	30000
12.438 H	SOFT	30000
12.479 H	AFMV	30000
12.479 H	ASER	30000
12.479 H	CINM	30000
12.479 H	GSQ	30000
12.479 H	H-HA	30000
12.479 H	HALL	30000
12.479 H	insE	30000
● 12.479 H	RS18	30000
12.479 H	RS24	30000
12.479 H	RS25	30000
12.479 H	SRES	30000
12.479 H	STMV	30000
12.479 H	XZYT	30000
12.479 H	ALT	30000
12.479 H	BBCW	30000
12.479 H	COOL	30000
12.479 H	DANC	30000
12.479 H	EURO	30000
12.479 H	GET	30000
12.479 H	GWV	30000
12.479 H	HOTT	30000
12.479 H	J100	30000
12.479 H	LKTG	30000
12.479 H	METR	30000
12.479 H	MJNG	30000
12.479 H	RIVR	30000
12.479 H	SPT	30000
12.479 H	TMSC	30000
12.521 H	AMAX	30000
12.521 H	AXN	30000
12.521 H	BBCE	30000
12.521 H	CH-V	30000
12.521 H	CHIC	30000
12.521 H	E!	30000
12.521 H	LTNG	30000
12.521 H	MA	30000
12.521 H	MGM	30000
12.521 H	MTV	30000
12.521 H	SWLD	30000
12.521 H	TCM	30000
12.521 H	TMUS	30000
12.521 H	TVB	30000
12.562 H	ANPL	25776
12.562 H	CNN	25776
12.562 H	DSCV	25776
12.562 H	EXP1	25776
12.562 H	EXP2	25776
12.562 H	EXP3	25776
12.562 H	HIST	25776
12.562 H	NGAV	25776
12.562 H	NGC	25776
12.562 H	SPRK	25776
12.562 H	STC	25776
12.562 H	TCCN	25776
12.604 H	BBC	30000
12.604 H	BMBG	30000
12.604 H	CCTV	30000
12.604 H	CNBC	30000
12.604 H	ESPN	30000
12.604 H	NHK	30000
12.604 H	SPRT	30000
12.604 H	TSP1	30000
12.604 H	TSP2	30000
12.604 H	TSP3	30000
12.604 H	TSP4	30000
12.604 H	TSP5	30000
12.604 H	TV5	30000
12.657 H	D HH	30000
● 12.657 H	D TB	30000
12.657 H	D TL	30000
12.657 H	Disn	30000
12.657 H	DisP	30000
12.657 H	DSci	30000
12.657 H	HBOF	30000
12.657 H	HBOH	30000
12.657 H	HBOS	30000
12.657 H	MCT1	30000
12.657 H	MCT2	30000
12.657 H	TSE1	30000
12.657 H	TSE2	30000
12.720 H	RS100	30000
12.720 H	RS98	30000
12.720 H	PPV1	30000
12.720 H	PPV2	30000
12.720 H	PREV	30000
12.720 H	RATV	30000
12.720 H	RS101	30000
12.720 H	RS103	30000
12.720 H	RS106	30000
12.720 H	RS107	30000
12.720 H	RS108	30000
12.720 H	TATV	30000

C-Band: THAICOM 2,5
78.6 East

Freq Pol GHz	Channel Name	Symbol rate
3.431 H	HADI TV	13333
3.431 H	MANMIN-TV	13333
3.505 H	KCTV	3368
● 3.506 V	Gang Cartoon Channel	1852
3.551 H	APOSTOLIC ONENESS	13333
● 3.551 H	ETN	13333
3.551 H	FTV INDIA	13333
3.551 H	GOD Africa	13333
3.551 H	Marine Biz TV	13333

TV Digital
Radio Digital
TV Digital Crypt
Radio Digital Crypt
TV High Definition
TV High Definition Crypt

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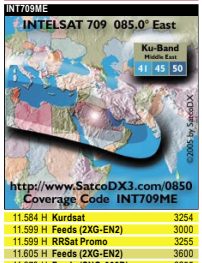
3.551 H RAAD TV 13333	3.432 V Nepal Television 2 6664	3.991 V IMAYAM 13330	11.606 V 1TVRUS CIS 44948	India
3.551 H TRT INT 13333	3.449 H FTV HD 13330	3.991 V INDIASIGN TEST6 13330	11.606 V Neo Music 44948	INSAT 3B,4A
3.551 H Hornafrik Radio 13333	3.449 H God Greater China 13330	3.991 V SHAKTI 13330	11.606 V Ердиқ ТВ 44948	83.0 East
3.551 H Radyo-2 (TRT FM) 13333	3.449 H Test 13330	3.991 V SS MUSIC 13330	11.606 V Китай 44948	11.090 H Aastha 27500
3.551 H TSR Turkce 13333	3.449 H Test 2 13330	3.991 V TARA PUNJABI 13330	C-Band: EXPRESS AM2	11.090 H Channel V 27500
3.551 H VOT World 13333	3.449 V TV9_Cambodia 2222	4.005 V Indiasign Test 6665	80.1 East	11.090 H DD Punjabi 27500
3.564 H VTV 4444	3.454 V AVENUESTV 3333	4.005 V TARA MUZIK 6665	EXPAM2CR	11.090 H Discovery T & L 27500
3.600 H S-LAND 26670	3.459 V TEST_LTV 2900	4.005 V TV Southasia 6665		11.090 H Fashion TV 27500
3.600 H ACE CHANNEL 26670	3.490 V Sagarmatha 3333	4.107 V ATN-Bangla 6665		11.090 H MTV 27500
3.600 H Big Brother 26670	3.502 V DhiTV 4445	4.136 V Apsara TV 4443		11.090 H Nat Geo 27500
3.600 H DMC 26670	3.522 V LaoStar Channel 2915	4.136 V TV5 Cambodia 4443		11.090 H UTVi 27500
3.600 H PEAK CHANNEL 26670	3.544 V EDN EDUTAINMENT N 30000	4.136 V FM 98 MHz Cambodia 4443		11.090 H Zee Trendz 27500
3.600 H SINDH TV 26670	3.544 V M1 30000	4.169 V KTN-KARACHI 9600		11.090 H 27500
3.600 H SLNTV 26670	3.544 V Movie Hits 30000	4.169 V DATA 9600		11.170 H Asianet News 27500
3.600 H THAICOM 13 26670	3.544 V POP CHANNEL 30000	4.169 V KTN-KARACHI-A 9600		11.170 H BBC WORLD 27500
3.600 H THAICOM 10 26670	3.544 V THAI CHAI YO 30000	EXPRESS AM2		11.170 H CNBC-TV18 27500
3.600 H THAICOM 4 26670	3.544 V THAICOM 12 30000	80.0 East		11.170 H CNN 27500
3.600 H THAICOM 9 26670	3.544 V THAICOM 13 30000	EXPAM2KR		11.170 H Gemini News 27500
3.600 H TV5 Global 26670	3.544 V THAICOM 14 30000			11.170 H Jaya 27500
3.600 H Vibe 26670	3.544 V THAICOM 15 30000			11.170 H MH One 27500
3.600 H VTV 26670	3.544 V THAICOM 3 30000			11.170 H MI MARATHI 27500
3.600 H TGN_radio 26670	3.544 V THAICOM 4 30000			11.170 H NDTV Profit 27500
3.609 V MRTV 2500	3.544 V Variety One 30000			11.170 H Sun Music 27500
3.617 V 5-CARTOONS 12500	3.544 V FAN_TV 30000			11.170 H Sun News 27500
3.617 V 5-MOVIES 12500	3.544 V Mongkol Channel 30000			11.170 H TV9 - Kannada 27500
3.617 V 5-SERIES 12500	3.544 V MVTV_BANGKOK TODA 30000			11.170 H Zee Business 27500
3.617 V CNN 12500	3.544 V SBB TV 30000			11.170 H 27500
3.617 V ESPN 12500	3.544 V TV pool 30000			C-Band: INSAT 2E,3B,4A
3.617 V NGC WILD 12500	3.544 V 89 25Mhz Sanghathan 30000			83.1 East
3.617 V STAR SPORTS 12500	3.575 H MRTV 7495			INS02ECW
3.617 V MRTV 12500	3.575 H MRTV3 7495			
3.617 V MRTV-4 12500	3.575 H MYANMARRADIO 7495			
3.617 V FM RADIO 12500	3.575 H RADIO2 7495			
3.617 V RADIO-2 12500	3.585 V TTN 26667			
3.640 H BABY TV 28062	3.585 V AI-NET CHANNEL 26667			
3.640 H Svt Europa 28062	3.585 V ETC 26667			
3.640 H 3ABN International 28062	3.585 V ETC PANJABI 26667			
3.640 H BVN 28062	3.585 V mvtv_h plus channel 26667			
3.640 H DAYSTAR 28062	3.585 V MVTV_HITSTATION 26667			
3.640 H HCTV 28062	3.585 V MVTV_MIC 26667			
3.640 H KURDSAT 28062	3.585 V MVTV_MV5 26667			
3.640 H LLBN TV 28062	3.585 V MVTV_My TV 26667			
3.640 H Russia Today 28062	3.585 V MVTV_STAR 26667			
3.640 H TCT 28062	3.585 V MVTV_VARIETY 26667			
3.640 H TELEMEDIA 28062	3.585 V PStv 26667			
3.640 H The Word Network 28062	3.585 V PTC NEWS 26667			
3.640 H UNIV TV 28062	3.585 V TCTV 26667			
3.640 H 3ABN RADIO 28062	3.585 V Data Broadcast SBI 26667			
3.640 H CVC 28062	3.585 V KCS Radio 26667			
3.640 H Overcomer Radio 28062	3.585 V OK HOT 26667			
3.640 H RNW-1 28062	3.585 V OK LOVE 26667			
3.640 H RNW-2 28062	3.585 V OK LUKTUNG 26667			
3.640 H RNW-3 28062	3.814 V MHONE NEWS 6660			
3.640 H Rvi1 (VRT) 28062	3.814 V MHONEMUSIC 6660			
3.640 H Swedish Radio 1 28062	3.814 V Shraddha 6660			
3.640 H Swedish Radio 2 28062	3.840 V MH1Music 26667			
3.694 H SKY1 5000	3.840 V Nepal1 26667			
3.711 V GOA NEWS 13330	3.840 V Sadhana 26667			
3.711 V HARYANA NEWS 13330	3.873 V FUN TV 2963			
3.711 V PUNJAB TODAY 13330	3.877 V Channel-5 3333			
3.711 V UP NEWS 13330	3.920 V DHOOM TV 30000			
3.731 V {Empty Name} 2412	3.920 V SINDH TV 30000			
3.760 V 7 Star Care 26660	3.920 V THAICOM 6 30000			
3.760 V Sanskar 26660	3.920 V THAICOM 1 30000			
THA005CR	3.920 V THAICOM 13 30000			
	3.920 V THAICOM 14 30000			
	3.920 V THAICOM 2 30000			
	3.920 V THAICOM 3 30000			
	3.920 V THAICOM 5 30000			
	3.920 V THAICOM 7 30000			
	3.920 V THAICOM 8 30000			
	3.960 V APNA 30000			
	3.960 V Channel 24 30000			
	3.960 V FILMAZIA 30000			
	3.960 V Joo Music 30000			
	3.960 V Multiple TV 30000			
	3.960 V NEWS TIME 30000			
	3.960 V PAK TV 30000			
	3.960 V SILVER SCREEN 30000			
	3.960 V SINDH TV NEWS 30000			
	3.960 V Starlite 30000			
	3.960 V THAICOM 12 30000			
	3.960 V Vibe 30000			
	3.960 V Voyages 30000			
3.421 V SCOPUS-NET-TEC0 6666	3.991 V DIVYA 13330	11.606 V Ocean TV 44948	4.147 R TVC Siberia 27500	3.523 V NE BANGLA 8640
3.421 V SCOPUS-NET-TECR 6666		11.606 V Telenyanya 44948	4.147 R TVC Ural 27500	3.523 V NE HIFI 8640
3.432 V Nepal Television 1 6664		11.606 V Universal 44948	4.147 R CTV Plus 27500	3.523 V NE TELEVISION 8640
		11.606 V Zee TV Russia 44948	4.147 R Radio 2 (test) 27500	3.560 V S1 TELEVISION 3365
		11.606 V Идеальный Мир 44948	4.147 R Radio 4 (test) 27500	3.582 V TV-9KANNADA 3255
		11.606 V Киномания ТВ 44948	4.147 R Radio 5 (test) 27500	3.594 V JAYA MAX 8680
		11.606 V Мультимания ТВ 44948	4.147 R Radio Arsenal 27500	3.594 V JAYA PLUS 8680
		11.606 V Спорт 44948	4.147 R Russian Public Radio 27500	3.594 V JAYA TV 8680
		11.606 V Феникс-Арт 44948	4.175 R Blagovest 4050	3.612 V AKAASH 9625
				3.612 V Channel Eight 9625
				3.612 V RAHUL SPRINGS 9625
				4.071 V DDI 2E NATIONAL 5000
				3.722 H ASEERVATHAM TV 26660
				3.722 H D TV 26660
				3.722 H JAIN TV 26660
				3.722 H NSTPL 26660
				3.722 H PBC TV 26660
				3.722 H POWER VISION TV 26660
				3.722 H SOBHAGYA TV 26660
				3.722 H SPACE TV 26660
				3.722 H STANDARD WORLD 26660
				3.722 H TIME TV 26660
				3.757 H Enterr10 13328
				3.757 H India NEWS 13328
				3.757 H Manoranjan TV 13328
				3.757 H REAL ESTATE TV 13328
				3.757 H Spacetoon Kids TV 13328
				3.757 H TML VOI 13328
				3.757 H VOI MP 13328
				3.757 H VOI RAJASTHAN 13328
				3.777 H STAR 10900
				3.777 H STAR ANANDA 10900
				3.777 H STAR NEWS 10900
				3.777 H STAR MAJHA 10900
				3.806 H BINDASS 28500
				3.806 H BINDASS MOVIES 28500
				3.806 H UTV MOVIES 28500
				3.806 H UTV NEWS 28500
				3.806 H WORLD MOVIES 28500
				3.806 H AZAD NEWS 28500
				3.806 H CHANNEL 1 28500
				3.806 H CNEB 28500
				3.806 H NEWS LIVE 28500
				3.806 H OTV 28500
				3.806 H PRAGYA 28500
				3.806 H SHALOM TV 28500
				3.806 H SUDARSHAN TV 28500
				3.806 H SVBC 28500
				3.806 H YO MUSIC 28500
				3.853 H CTVN AKD PLUS 3265
				3.857 H kasthuri TV 3463
				3.893 H Vanitha 3300
				3.893 H {Empty} 3300
				3.899 H Bhakti 6800
				3.899 H NTV 6800
				3.922 H MUSIC INDIA 13000
				3.922 H SADHANA NEWS 13000
				3.922 H SANGEET BANGLA 13000
				3.922 H SATSANG 13000
				3.922 H TOTAL TV 13000
				3.922 H TV 100 13000
				3.924 V MMINTL 3000
				3.934 V STAR JALSHA 13020
				3.934 V TEST 13020
				3.934 V MEGA TV 13020
				3.934 V SUBHA VAARTHA 13020
				3.936 H 9x 10100
				3.936 H 9xM 10100
				3.936 H NewsX 10100
				3.950 H DY365 3223
				3.975 V GUJRATI 13330
				3.975 V LEHREN 13330
				3.975 V MUMBAI 13330
				3.975 V NCR 13330
				3.975 V SANSKRUTI 13330
				3.977 H ZEE NEXT 3200
				4.004 H ETV 2 22210
				4.004 H ETV Bengali 22210
				4.004 H ETV Bihar 22210
				4.004 H ETV Gujrathi 22210
				4.004 H ETV Kannada 22210
				4.004 H ETV Madhya Pradesh 22210
				4.004 H ETV Marathi 22210
				4.004 H ETV Oriya 22210
				4.004 H ETV Rajasthan 22210
				4.004 H ETV Telugu 22210
				4.004 H ETV Uttar Pradesh 22210
				4.004 H ETV Urdu 22210
				4.032 V MAA MUSIC 7440
				4.032 V MOON TV 7440
				4.042 H ASHIRWAD 7500
				4.042 H Just Punjabi 7500
				4.042 H Mahuaa 7500
				4.042 H Saam TV 7500
				4.042 H Sang Bhoj 7500
				4.055 H LAMHAS TEST 4 13230
				4.055 H LAMHAS TEST-3 13230
				4.055 H LAMHASTEST 1 13230
				4.055 H LEMON TV 13230
				4.072 H TOPPER 6500
				4.072 H XYZ 6500
				4.072 H HSN18 6500
				4.081 H CNBC SOUTH 6500
				4.081 H IBN MUMBAI 6500
				4.081 H IBN LOKMAT 6500
				4.088 H LIVE INDIA 3300
				4.101 V VIA COM18MUMBAI 4200
				4.101 H BBS TV 4750
				4.101 H BBS FM 4750
				4.101 H Kuzoo FM 4750
				4.115 H MMCAL 5555
				4.115 H MMCOCHIN 5555
				4.115 H MMTVM 5555
				4.135 H E 24 10600
				4.135 H BIZ 24 10600
				4.135 H LIFE24 10600
				4.135 H NEWS 24 10600
				4.152 H ZEE KANNADA 6500
				4.152 H ZEE TELUGU 6500
				4.152 H 24 GHANTA 6500
				4.161 H PLAY TV 6500
				4.161 H ZEE TALKIES 6500
				4.161 H 24 TAAS 6500
				4.171 H LSTV 4650
				3.959 H Mahuaa 9500
				3.959 H Pragya TV 9500
				INTELSAT 709
				85.0 East
				INT709ME
				
				11.584 H Kurdsat 3254
				11.599 H Feeds (2XG-EN2) 3000
				11.599 H RRSat Promo 3255
				11.605 H Feeds (2XG-EN2) 3600
				11.679 H Feeds (SNG-006B) 3255

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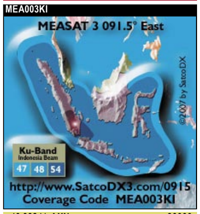
Freq GHz	Pol	Channel Name	Symbol rate
C-Band: CHINASTAR 1			
87.5 East			
4.010	H	**SHANG HAI 4**	4683
C-Band: ST 1			
88.0 East			
STC001CB			

Freq GHz	Pol	Channel Name	Symbol rate
3.413	V	**UBC Thailand**	3618
3.550	V	**1_VL Cinema**	30000
3.550	V	**2_VL Nipponese**	30000
3.550	V	**3_VL Drama**	30000
3.550	V	**4_VL Ensemble**	30000
3.550	V	**5_VL Sports**	30000
3.550	V	**6_VL Edu & Ent**	30000
3.550	V	**9_Ad hoc feed**	30000
3.550	V	**7_ch7**	30000
3.550	V	**8_UTV MOMO**	30000
3.550	V	**Life TV**	30000
3.633	V	**1_VL Cinema**	30000
3.633	V	**2_VL Nipponese**	30000
3.633	V	**3_VL Drama**	30000
3.633	V	**4_VL Ensemble**	30000
3.633	V	**5_VL Sports**	30000
3.633	V	**6_VL Edu & Ent**	30000
3.633	V	**9_Ad hoc feed**	30000
3.633	V	**7_ch7**	30000
3.633	V	**8_UTV MOMO**	30000
3.633	V	**Life TV**	30000
● 3.671	H	**Ch 1 BTS TV**	9255
● 3.671	H	**Ch 2 Life TV**	9255
● 3.671	H	**Ch 3**	9255
● 3.671	H	**Ch 4**	9255
● 3.671	H	**Ch 5 EBS FM**	9255
● 3.671	H	**Ch 6 EBS AM**	9255
● 3.671	H	**Ch 7**	9255
● 3.671	H	**Ch 8**	9255
3.688	H	**Service 2**	3000
India			
ST 1			
88.1 East			
STC001K2			

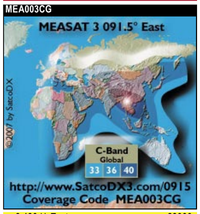
Freq GHz	Pol	Channel Name	Symbol rate
● 11.508	V	**TVL Test**	6000
11.508	V	**TVLanka**	6000
11.508	V	**TVL Radio 2**	6000
11.508	V	**TVL Radio 3**	6000
11.508	V	**TVL Radio 4**	6000
11.508	V	**TVL Radio 5**	6000
YAMAL 201			
90.0 East			
YAM201KB			

Freq GHz	Pol	Channel Name	Symbol rate
10.995	V	**YAMAL**	4285
11.057	V	**CTC+7**	26470
11.057	V	**Home+7**	26470
11.057	V	**NTV2**	26470
11.057	V	**NTV4**	26470
11.057	V	**SHKOLNIK**	26470
11.057	V	**TNT 2**	26470
11.057	V	**TNT 4**	26470
11.057	V	**DFM_REGION**	26470
11.057	V	**HIT_FM**	26470
11.057	V	**RSN**	26470
11.057	V	**RUSSIAN_RADIO**	26470
11.057	V	**Audio 31 F-Way+Novos**	26470
11.057	V	**MAXIMUM**	26470
11.092	V	**BIBIGON**	26470
11.092	V	**CHANSON**	26470
11.092	V	**CTC+4**	26470
11.092	V	**FOOTBALL**	26470
11.092	V	**Home+4**	26470
11.092	V	**PARK RAZVL**	26470
11.092	V	**RENTV4**	26470
11.092	V	**RENTV7**	26470
11.092	V	**RIK**	26470
11.092	V	**SOVSEKRETNO**	26470
11.092	V	**Europa Plus**	26470
11.092	V	**Radio 7**	26470
11.092	V	**Retrm FM**	26470
C-Band: YAMAL 201			
90.1 East			
YAM201CB			

Freq GHz	Pol	Channel Name	Symbol rate
● 3.536	L	**Nau TV**	2532
● 3.539	L	**TBN _RUSSIA**	3274
● 3.553	L	**Altyn Asyr**	20000
● 3.553	L	**Miras**	20000
● 3.553	L	**TV-4**	20000
● 3.553	L	**Yaslyk**	20000
● 3.577	L	**CNL**	2626
● 3.582	L	**Chita TV**	4275
● 3.588	L	**TV-NORD**	4285
● 3.594	L	**GTRK-BIRA 2**	4275
● 3.600	L	**OTV**	4285
● 3.605	L	**CNL-EUROPE**	2626
● 3.674	L	**MTV**	17500
● 3.674	L	**RADOST MOYA**	17500
● 3.674	L	**SGU TV**	17500
● 3.674	L	**TV-3 PLUS 2**	17500
● 3.674	L	**TV-3 PLUS 7**	17500
● 3.674	L	**D2-1**	17500
● 3.674	L	**D2-10**	17500
● 3.674	L	**D2-11**	17500
● 3.674	L	**D2-12**	17500
● 3.674	L	**D2-13**	17500
● 3.674	L	**D2-14**	17500
● 3.674	L	**D2-2**	17500
● 3.674	L	**D2-3**	17500
● 3.674	L	**D2-4**	17500
● 3.674	L	**D2-5**	17500
● 3.674	L	**D2-6**	17500
● 3.674	L	**D2-7**	17500
● 3.674	L	**D2-8**	17500
● 3.674	L	**D2-9**	17500
● 3.725	L	**SKVORTSOVO**	3200
● 3.903	L	**TV SPORT**	8888
● 3.903	L	**TV ROSTOV**	8888
● 3.903	L	**TV ZVEZDA**	8888
● 3.912	L	**ORTRK-12**	4295
● 3.954	L	**AGRO TV**	29500
● 3.954	L	**AM LIFE**	29500
● 3.954	L	**O2TV**	29500
● 3.954	L	**PTK**	29500
● 3.954	L	**RUTV**	29500
● 3.954	L	**STYLE TV**	29500
● 3.954	L	**TV ZVEZDA +4**	29500
● 3.954	L	**TVC Siberia**	29500
● 3.954	L	**TVC Ural**	29500
● 3.954	L	**CH31**	29500
● 3.954	L	**CH32**	29500
● 3.954	L	**CH33**	29500
● 3.954	L	**CH34**	29500
● 3.954	L	**CH35**	29500
● 3.954	L	**Russian Public Radio**	29500
Indonesia			
MEASAT 3			
91.5 East			
MEA003KI			



Freq GHz	Pol	Channel Name	Symbol rate
10.982	V	**AXN**	30000
10.982	V	**DISN**	30000
10.982	V	**HBO**	30000
10.982	V	**HHD**	30000
10.982	V	**NGEO**	30000
10.982	V	**PHDC**	30000
10.982	V	**SMV**	30000
● 10.982	V	**TEST**	30000
10.982	V	**TVBS**	30000
10.982	V	**VAAN**	30000
10.982	V	**WLT**	30000
10.982	V	**PPV PORTAL (home t**	30000
● 11.062	V	**ABO**	30000
11.062	V	**AEC**	30000
11.062	V	**CER**	30000
11.062	V	**CINE**	30000
11.062	V	**CNN**	30000
11.062	V	**DISC**	30000
11.062	V	**PHNX**	30000
11.062	V	**PRIMA**	30000
11.062	V	**SUN**	30000
● 11.062	V	**TEST**	30000
11.062	V	**TVB8**	30000
11.062	V	**VT**	30000
11.062	V	**XHE**	30000
11.062	V	**ERA**	30000
11.062	V	**GAME**	30000
11.062	V	**GEGAR**	30000
11.062	V	**GOLD**	30000
11.062	V	**HITZ**	30000
11.062	V	**IB**	30000
11.062	V	**JAZ**	30000
11.062	V	**LITE**	30000
11.062	V	**MIX**	30000
11.062	V	**MLD**	30000
● 11.062	V	**MSQA**	30000
11.062	V	**MY**	30000
11.062	V	**OPUS**	30000
11.062	V	**OSAI**	30000
11.062	V	**RAAGA**	30000
● 11.062	V	**RAD**	30000
11.062	V	**ROCK**	30000
11.062	V	**SINAR**	30000
11.062	V	**XM FM**	30000
11.102	V	**ABO**	30000
11.102	V	**ANIM**	30000
11.102	V	**CEL**	30000
11.102	V	**ESPN**	30000
11.102	V	**HITZ**	30000
11.102	V	**KIRA**	30000
● 11.102	V	**RIA**	30000
11.102	V	**SHX**	30000
11.102	V	**SPRT**	30000
● 11.102	V	**VAR**	30000
11.182	V	**@15**	30000
11.182	V	**ASSP**	30000
11.182	V	**BBCE**	30000
11.182	V	**BTV**	30000
11.182	V	**CTV4**	30000
11.182	V	**DH&H**	30000
11.182	V	**E!**	30000
11.182	V	**HMK**	30000
11.182	V	**JYU**	30000
11.182	V	**SM**	30000
11.182	V	**SWR**	30000
11.182	V	**TEST**	30000
● 11.182	V	**TURBO**	30000
11.182	V	**TVIQ**	30000
11.482	V	**AOD**	30000
11.482	V	**APL**	30000
11.482	V	**BBC**	30000
11.482	V	**CNBC**	30000
11.482	V	**CTV9**	30000
11.482	V	**DSCI**	30000
11.482	V	**ES**	30000
11.482	V	**MTV**	30000
11.482	V	**NTV7**	30000
11.482	V	**PIN**	30000
11.522	V	**[V]**	30000
11.522	V	**ABO**	30000
11.522	V	**AFC**	30000
11.522	V	**AOD**	30000
11.522	V	**ART**	30000
11.522	V	**GC**	30000
11.522	V	**NEWS**	30000
11.522	V	**RTM1**	30000
11.522	V	**TEST1**	30000
11.522	V	**TEST2**	30000
● 11.562	V	**@15**	30000
● 11.562	V	**ABO**	30000
● 11.562	V	**ASSP**	30000
● 11.562	V	**BBCE**	30000
● 11.562	V	**BTV**	30000
11.562	V	**CHTV**	30000
● 11.562	V	**CTV4**	30000
● 11.562	V	**DH&H**	30000
● 11.562	V	**E!**	30000
● 11.562	V	**HMK**	30000
● 11.562	V	**JYU**	30000
11.562	V	**KBS**	30000
11.562	V	**MAK**	30000
11.562	V	**NICK**	30000
● 11.562	V	**SM**	30000
● 11.562	V	**SWR**	30000
● 11.562	V	**TEST**	30000
● 11.562	V	**TURBO**	30000
11.562	V	**TV9**	30000
● 11.562	V	**TVIQ**	30000
11.562	V	**XTY**	30000
11.563	V	**ABO**	30000
11.563	V	**CHTV**	30000
11.563	V	**KBS**	30000
11.563	V	**MAK**	30000
11.563	V	**NICK**	30000
11.563	V	**TV9**	30000
11.563	V	**XTY**	30000
● 11.602	V	**@15**	30000
11.602	V	**AJE**	30000
11.602	V	**AODP**	30000
11.602	V	**ARU**	30000
● 11.602	V	**ASSP**	30000
11.602	V	**AWANI**	30000
● 11.602	V	**BBCE**	30000
● 11.602	V	**BTV**	30000
11.602	V	**CI**	30000
● 11.602	V	**CTV4**	30000
● 11.602	V	**DH&H**	30000
● 11.602	V	**E!**	30000
11.602	V	**ETVA**	30000
● 11.602	V	**HMK**	30000
● 11.602	V	**JYU**	30000
11.602	V	**OAS**	30000
11.602	V	**RTM2**	30000
● 11.602	V	**SM**	30000
● 11.602	V	**SWR**	30000
● 11.602	V	**TEST**	30000
11.602	V	**TRAV**	30000
● 11.602	V	**TURBO**	30000
11.602	V	**TV3**	30000
● 11.602	V	**TVIQ**	30000
11.602	V	**WATV**	30000
11.602	V	**ZEE**	30000
11.642	V	**AOD**	30000
11.642	V	**CTWK**	30000
11.642	V	**TEST**	30000
11.682	V	**8TV**	30000
● 11.682	V	**ABO**	30000
11.682	V	**AOD**	30000
11.682	V	**BRTV**	30000
● 11.682	V	**CHTV**	30000
11.682	V	**HIST**	30000
● 11.682	V	**KBS**	30000
● 11.682	V	**MAK**	30000
● 11.682	V	**MAL**	30000
11.682	V	**NHK**	30000
● 11.682	V	**NICK**	30000
● 11.682	V	**TV9**	30000
● 11.682	V	**XTY**	30000
● 11.833	V	**ABO**	30000
11.833	V	**AXN**	30000
● 11.833	V	**CHTV**	30000
11.833	V	**DISN**	30000
11.833	V	**HBO**	30000
11.833	V	**HHD**	30000
● 11.833	V	**KBS**	30000
● 11.833	V	**MAK**	30000
11.833	V	**NGEO**	30000
● 11.833	V	**NICK**	30000
11.833	V	**PHDC**	30000
11.833	V	**SMV**	30000
● 11.833	V	**TEST**	30000
● 11.833	V	**TV9**	30000
11.833	V	**TVBS**	30000
11.833	V	**VAAN**	30000
11.833	V	**WLT**	30000
● 11.833	V	**XTY**	30000
11.833	V	**PPV PORTAL (home t**	30000
● 11.957	V	**[V]**	30000
11.957	V	**ABO**	30000
● 11.957	V	**AFC**	30000
11.957	V	**ANIM**	30000
● 11.957	V	**AOD**	30000
● 11.957	V	**ART**	30000
11.957	V	**CEL**	30000
11.957	V	**ESPN**	30000
● 11.957	V	**GC**	30000
11.957	V	**HITZ**	30000
11.957	V	**KIRA**	30000
● 11.957	V	**NEWS**	30000
● 11.957	V	**RIA**	30000
● 11.957	V	**RTM1**	30000
11.957	V	**SHX**	30000
11.957	V	**SPRT**	30000
● 11.957	V	**TEST1**	30000
● 11.957	V	**TEST2**	30000
● 11.957	V	**VAR**	30000
12.333	V	**AOD**	30000
12.333	V	**APL**	30000
12.333	V	**BBC**	30000
12.333	V	**CNBC**	30000
12.333	V	**CTV9**	30000
12.333	V	**DSCI**	30000
12.333	V	**ES**	30000
12.333	V	**MTV**	30000
12.333	V	**NTV7**	30000
12.333	V	**PIN**	30000
● 12.414	V	**@15**	30000
12.414	V	**ABO**	30000
● 12.414	V	**ASSP**	30000
● 12.414	V	**BBCE**	30000
● 12.414	V	**BTV**	30000
12.414	V	**CHTV**	30000
● 12.414	V	**CTV4**	30000
● 12.414	V	**DH&H**	30000
● 12.414	V	**E!**	30000
● 12.414	V	**HMK**	30000
● 12.414	V	**JYU**	30000
12.414	V	**KBS**	30000
12.414	V	**MAK**	30000
12.414	V	**NICK**	30000
● 12.414	V	**SM**	30000
● 12.414	V	**SWR**	30000
● 12.414	V	**TEST**	30000
● 12.414	V	**TURBO**	30000
12.414	V	**TV9**	30000
● 12.414	V	**TVIQ**	30000
12.414	V	**XTY**	30000
● 12.493	V	**@15**	30000
12.493	V	**AOD**	30000
● 12.493	V	**ASSP**	30000
● 12.493	V	**BBCE**	30000
● 12.493	V	**BTV**	30000
● 12.493	V	**CTV4**	30000
12.493	V	**CTWK**	30000
● 12.493	V	**DH&H**	30000
● 12.493	V	**E!**	30000
● 12.493	V	**HMK**	30000
● 12.493	V	**JYU**	30000
● 12.493	V	**SM**	30000
● 12.493	V	**SWR**	30000
12.493	V	**TEST**	30000
● 12.493	V	**TURBO**	30000
● 12.493	V	**TVIQ**	30000
● 11.976	V	**[V]**	6520
● 11.976	V	**ABO**	6520
● 11.976	V	**AFC**	6520
● 11.976	V	**AOD**	6520
● 11.976	V	**ART**	6520
● 11.976	V	**CTWK**	6520
● 11.976	V	**GC**	6520
● 11.976	V	**NEWS**	6520
● 11.976	V	**RTM1**	6520
● 11.976	V	**TEST**	6520
● 11.976	V	**TEST1**	6520
● 11.976	V	**TEST2**	6520
● 11.985		**ABO**	5555
● 11.985		**ANIM**	5555
● 11.985		**AOD**	5555
● 11.985		**CEL**	5555
● 11.985		**CTWK**	5555
● 11.985		**ESPN**	5555
● 11.985		**HITZ**	5555
● 11.985		**KIRA**	5555
● 11.985		**RIA**	5555
● 11.985		**SHX**	5555
● 11.985		**SPRT**	5555
● 11.985		**TEST**	5555
● 11.985		**VAR**	5555
● 12.120	V	**AOD**	7234
● 12.120	V	**CTWK**	7234
● 12.120	V	**TEST**	7234
● 12.120	V	**AOD**	7234
C-Band: MEASAT 3			
91.6 East			
MEA003CG			



Freq GHz	Pol	Channel Name	Symbol rate
3.480	H	**Test**	28000
3.721	V	**TV NATIN**	2170
3.721	V	**BEAT**	2170
3.721	V	**DZRH**	2170
3.721	V	**HOT FM**	2170
3.721	V	**KIDS FM**	2170
3.721	V	**LOVE**	2170
3.721	V	**RN**	2170
3.721	V	**YES FM**	2170
● 3.787	V	**TV 3 DIGITAL**	7030
3.796	V	**HTV7**	7030
3.796	V	**HTV9**	7030
3.796	V	**SAIGON_FM**	7030
● 3.805	V	**Ria**	7500
● 3.805	V	**Aruna MCPC2a**	7500
● 3.805	V	**Jim Jam**	7500
3.840	V	**AFC**	30000
3.840	V	**BBC Entertainment**	30000
3.840	V	**BIOGRAPHY**	30000
3.840	V	**CCM**	30000
3.840	V	**Celestial 1**	30000
3.840	V	**Celestial 2**	30000
3.840	V	**CRIME&INVESTIGATI**	30000
3.840	V	**GOLF**	30000
3.840	V	**HISTORY**	30000
3.840	V	**JIA YU**	30000
3.877	V	**RTM 1**	12520
3.877	V	**RTM 2**	12520
3.877	V	**RTM FEED 1**	12520
3.877	V	**RTM FEED 2**	12520
3.877	V	**AI FM**	12520
3.877	V	**ASYIK FM**	12520
3.877	V	**KLASIK NASIONAL F**	12520
3.877	V	**MINNAL FM**	12520
3.877	V	**MUZIK FM**	12520
3.877	V	**SUARA MALAYSIA 1**	12520
3.877	V	**SUARA MALAYSIA 2**	12520
3.877	V	**TRAXX FM**	12520
● 3.920	V	**321 FOX Crime**	28000
● 3.920	V	**322 NG Wild**	28000
● 3.920	V	**323 Fox FX**	28000
● 3.920	V	**324 Nat Geo Philippi**	28000
● 3.920	V	**Filmazia**	28000
● 3.920	V	**MTV Pakistan**	28000
● 3.920	V	**WFC**	28000
● 3.920	V	**Film World**	28000
● 3.920	V	**Indus Vision**	28000
● 4.108	V	**Lease 3**	6668
● 4.114	V	**Ginx**	2960
● 4.118	V	**YR ASIA TV**	2963
India			
MEASAT 3			
91.7 East			
MEA003KA			

Freq GHz	Pol	Channel Name	Symbol rate
● 12.563	V	**English Action**	27500
● 12.563	V	**English Blockbuster**	27500
● 12.563	V	**English Blockbuster**	27500
● 12.563	V	**English Comedy**	27500
● 12.563	V	**English Drama**	27500
● 12.563	V	**English Family**	27500
● 12.563	V	**English Mega Hit**	27500
● 12.563	V	**English Suspense**	27500
● 12.563	V	**Hindi Action**	27500
● 12.563	V	**Hindi Art**	27500
12.563	V	**Hindi Blockbuster**	27500
● 12.563	V	**Hindi Classic**	27500
● 12.563	V	**Hindi Comedy**	27500
● 12.563	V	**Hindi Drama**	27500
12.563	V	**Hindi Family**	27500
12.563	V	**Hindi Mega Hit**	27500
● 12.563	V	**Hindi Romance**	27500
● 12.563	V	**Hindi Suspense**	27500
12.563	V	**ISP Video**	27500
12.563	V	**Preview**	27500
12.563	V	**AIR Gujarati**	27500
● 12.723	V	**Bengali**	27500
● 12.723	V	**Bhojpuri**	27500
● 12.723	V	**English Classic**	27500
● 12.723	V	**Gujarati**	27500
● 12.723	V	**Help Channel**	27500
● 12.723	V	**Kannada**	27500
● 12.723	V	**Marathi**	27500
● 12.723	V	**Oriya**	27500
● 12.723	V	**Regional Blockbuster**	27500
● 12.723	V	**Tamil**	27500
● 12.723	V	**Telugu 1**	27500
● 12.723	V	**Telugu 2**	27500
C-Band: INSAT 3A,4B			
93.5 East			
INS03ACE			

Freq GHz	Pol	Channel Name	Symbol rate
3.775	H	**DDK JAMMU**	4250
4.109	V	**DDK_AGARTALA**	4250
4.132	V	**RTA - Kabul**	4000
4.132	V	**RADIO**	4000
4.137	V	**Ningarhar Service**	2000
4.141	V	**ARIANA INT'L**	5148
4.141	V	**ARIANA NATIONAL**	5148
4.141	V	**ARIANA FM**	5148
● 4.147	V	**{Empty}**	3000
INS03ACI			

Freq GHz	Pol	Channel Name	Symbol rate
3.732	V	**DD Bangala**	6250
3.732	V	**Kolkata Feed**	6250
3.741	V	**DD PUNJABI**	6250
3.741	V	**JALANDHAR FEED**	6250
3.750	V	**Ahmedabad Feed**	6250
3.750	V	**DD Gujrati**	6250
3.771	V	**DD Feed - BBSR**	6250
3.771	V	**DD Oriya**	6250
3.781	V	**DD-KASHIR (SRINAG**	6250
3.781	V	**DD-News feed(SRIN**	6250
3.792	V	**DD SAHYADRI**	8600
3.792	V	**MUMBAI-FEED**	8600
3.792	V	**NEWS-FEED**	8600
3.811	V	**DD Malayalam RLSS**	6250
3.811	V	**NEWS DDK Trivandru**	6250
3.820	V	**News feed hyd (News**	6250
● 3.820	V	**News feed hyd (Sapth**	6250
3.832	V	**Chennai feed - 1**	8600
3.832	V	**Podhigai**	8600
3.931	V	**DD-News feed(Shimla)**	6250
3.931	V	**DD-Shimla**	6250
3.941	V	**DD-Jaipur**	6250
3.941	V	**DD-N/FeedJaipur**	6250
3.950	V	**DD-Bhopal**	6250
3.950	V	**DD-News feed(Bhopal)**	6250
3.960	V	**DD-Lucknow**	6250
3.960	V	**DD-News feed(Lucknow**	6250
4.093	V	**DDSHG-NEWSFEED**	6250
4.093	V	**DDSHG-REGIONAL**	6250
4.101	V	**AIZAWL-REGIONAL**	6250
4.101	V	**DD-AZL-NEWSFEED**	6250
3.725	H	**DD BANGLA**	27500
3.725	H	**DD BHARTI**	27500
3.725	H	**DD FEED**	27500
3.725	H	**DD NATIONAL**	27500
3.725	H	**DD NEWS**	27500
3.725	H	**DD RAJYASABHA**	27500
3.725	H	**DD SPORTS**	27500
3.725	H	**DD URDU**	27500
3.763	H	**DD Chhattisgarh**	4250
● 3.803	H	**DDK HISSAR**	4250
● 3.821	H	**DDK PORTBLAIR**	4250
3.833	H	**DD Patna**	6250
3.833	H	**Feed DD Patna**	6250
● 3.840	H	**{Empty Name}**	6250
3.885	H	**GEMINI CABLE VISI**	28000
3.885	H	**GEMINI MUSIC**	28000
3.885	H	**GEMINI NEWS**	28000
3.885	H	**GEMINI TV**	28000
3.885	H	**K TV**	28000
3.885	H	**SUN MUSIC**	28000
3.885	H	**SUN NEWS**	28000
3.885	H	**SUN TV**	28000
3.885	H	**TEJA TV**	28000
3.885	H	**UDAYA MOVIES**	28000
3.885	H	**UDAYA VARTHEGALU**	28000
3.885	H	**UDAYATV**	28000
3.885	H	**CHUTTI TV**	28000
3.885	H	**KIRAN TV**	28000
3.885	H	**SURYA TV**	28000
3.885	H	**SFM BANGALORE**	28000
3.885	H	**SFM HYDERABAD**	28000
3.885	H	**SURYAN FM**	28000
● 3.956	H	**second_service**	3400
3.956	H	**Tarang**	3400
● 4.005	H	**ISAI ARUVI**	25430
● 4.005	H	**KALAIGNAR TV**	25430
4.045	H	**TEJA NEWS**	28000
4.045	H	**UDAYA NEWS**	28000
4.045	H	**USHE TV**	28000
4.045	H	**ADITHYA TV**	28000
4.045	H	**UDAYA TV II**	28000
INSAT 4B			
93.6 East			
10.990	V	**LOK SABHA TV**	27500
10.990	V	**DD BANGLA**	27500
10.990	V	**DD BHARATI**	27500
10.990	V	**DD GUJARATI**	27500
10.990	V	**DD INDIA**	27500
10.990	V	**DD KASHIR**	27500
10.990	V	**DD NATIONAL**	27500
10.990	V	**DD NEWS**	27500
10.990	V	**DD SPORTS**	27500
10.990	V	**DD-CHANDANA**	27500
10.990	V	**AIR MARATHI**	27500
10.990	V	**AIR TAMIL**	27500
10.990	V	**AIR TELUGU**	27500
10.990	V	**AIR VBS**	27500
11.030	V	**Gemini TV**	27500
11.030	V	**Jaya TV**	27500
11.030	V	**K TV**	27500
11.030	V	**Kalaignar TV**	27500
11.030	V	**Kiran TV**	27500
11.030	V	**SS Music**	27500
11.030	V	**Sun TV**	27500
11.030	V	**Surya TV**	27500
11.030	V	**Teja**	27500
11.030	V	**Udaya**	27500
11.030	V	**Udaya Movies**	27500
11.070	V	**DD MALAYALAM**	27500
11.070	V	**DD NORTH EAST**	27500
11.070	V	**DD ORIYA**	27500
11.070	V	**DD PODHIGAI**	27500
11.070	V	**DD PUNJABI**	27500
11.070	V	**DD RAJYA SABHA**	27500
11.070	V	**DD SAHYADRI**	27500
11.070	V	**DD SAPTAGIRI**	27500
11.070	V	**ENTER10**	27500
11.070	V	**MH1 MUSIC**	27500
11.070	V	**AIR GUJRATI**	27500
11.070	V	**AIR PUNJABI**	27500
11.070	V	**FM GOLD**	27500
11.070	V	**FM RAINBOW**	27500
11.110	V	**B4u Music**	27500
11.110	V	**Bhakti TV**	27500
11.110	V	**Bindass Movies**	27500
11.110	V	**Chutti TV**	27500
11.110	V	**ETV 2**	27500
11.110	V	**ETV Telugu**	27500
11.110	V	**Gemini Music**	27500
11.110	V	**Gemini News**	27500
11.110	V	**Maa TV**	27500
11.110	V	**Shalom TV**	27500
11.110	V	**Star Majaa**	27500
11.110	V	**Sun Music**	27500
11.110	V	**Sun News**	27500
11.110	V	**TV5 Telugu**	27500
11.110	V	**TV9**	27500
11.110	V	**World Movies**	27500
11.150	V	**AASTHA**	27500
11.150	V	**9XM**	27500
11.150	V	**ETC**	27500
11.150	V	**KAIRALI TV**	27500
11.150	V	**MAKKAL TV**	27500
11.150	V	**PTC NEWS**	27500
11.150	V	**SMILE TV**	27500
11.150	V	**TIME TV**	27500
11.150	V	**TOTAL TV**	27500
11.150	V	**ZEE JAGRAN**	27500
11.150	V	**AIR BANGLA**	27500
11.150	V	**AIR HINDI**	27500
11.150	V	**AIR KANNADA**	27500
11.150	V	**AIR N E**	27500
11.185	V	**DW TV**	20000
11.185	V	**ETV Urdu**	20000
11.185	V	**Jain TV**	20000
11.185	V	**Kairali**	20000
11.185	V	**Makkal TV**	20000
11.185	V	**Mega TV**	20000
11.185	V	**Podhigai**	20000
11.185	V	**Sahara**	20000
11.185	V	**Star Utsav**	20000
11.185	V	**Win TV**	20000
11.185	V	**Yo Music**	20000
11.185	V	**SFM - B'lore**	20000
11.185	V	**SFM Hyderabad**	20000
11.185	V	**SuryanFM**	20000
11.490	V	**DW-TV**	27500
11.490	V	**TEST -16**	27500
11.490	V	**TEST -17**	27500
11.490	V	**TEST -18**	27500
11.490	V	**TEST -19**	27500
11.490	V	**TEST -20**	27500
11.490	V	**TEST 13**	27500
11.490	V	**TEST-12**	27500
11.490	V	**TEST-14**	27500
11.490	V	**TEST-15**	27500
11.490	V	**AIR ASSAMESE**	27500
11.490	V	**AIR MALAYALAM**	27500
11.490	V	**FM GOLD-MUM**	27500
11.490	V	**FM R'BOW-CHN**	27500
11.490	V	**RADIO KASHMIR**	27500
11.530	V	**9X**	27500
11.530	V	**9XM**	27500
11.530	V	**Asianet Suvarna**	27500
11.530	V	**ETV Kannada**	27500
11.530	V	**K TEST**	27500
11.530	V	**MI Marathi**	27500
11.530	V	**N TV**	27500
11.530	V	**NDTV Good Times**	27500
11.530	V	**NE TV**	27500
11.530	V	**Nepal TV**	27500
11.530	V	**TV 9 Kannada**	27500
11.530	V	**Udaya 2**	27500
11.530	V	**Udaya Varthegalu**	27500
11.570	V	**B4U Music**	27500
11.570	V	**DD URDU**	27500
11.570	V	**GYANDARSHAN-1**	27500
11.570	V	**GYANDARSHAN-2**	27500
11.570	V	**JAIHIND TV**	27500
11.570	V	**Kalaignar TV**	27500
11.570	V	**MEGA TV**	27500
11.570	V	**MUSIC INDIA**	27500
11.570	V	**STAR UTSAV**	27500
11.570	V	**WIN TV**	27500
11.570	V	**AIR ORIYA**	27500
11.570	V	**AIR RAGAM**	27500
11.570	V	**AIR URDU**	27500
11.570	V	**FM R'BOW-BLR**	27500
11.610	V	**Akash bangla**	27500
11.610	V	**Amrita**	27500
11.610	V	**Angel TV**	27500
11.610	V	**Asianet**	27500
11.610	V	**Asianet News**	27500
11.610	V	**Asianet Plus**	27500
11.610	V	**Bindass**	27500
11.610	V	**ETV Marathi**	27500
11.610	V	**God TV**	27500
11.610	V	**India Vision**	27500
11.610	V	**Jeevan**	27500
11.610	V	**Kairali People**	27500
11.610	V	**Kairali We**	27500
11.610	V	**O TV**	27500
11.610	V	**Sanskar**	27500
11.610	V	**Shakthi TV**	27500
11.644	V	**7 Star Care**	20000
11.644	V	**ABC**	20000
11.644	V	**CCTV 9**	20000
11.644	V	**Daystar**	20000
11.644	V	**Manorama news**	20000
11.644	V	**NDTV 24x7**	20000
11.644	V	**NDTV India**	20000
11.644	V	**NDTV Profit**	20000
11.681	V	**Mosaic Test**	9500
11.681	V	**SN**	9500
India			
INSAT 4B, NSS 6			
95.0 East			
10.990	V	**LOK SABHA TV**	27500
10.990	V	**DD BANGLA**	27500
10.990	V	**DD BHARATI**	27500
10.990	V	**DD GUJARATI**	27500
10.990	V	**DD INDIA**	27500
10.990	V	**DD KASHIR**	27500
10.990	V	**DD NATIONAL**	27500
10.990	V	**DD NEWS**	27500
10.990	V	**DD SPORTS**	27500
10.990	V	**DD-CHANDANA**	27500
10.990	V	**AIR MARATHI**	27500
10.990	V	**AIR TAMIL**	27500
10.990	V	**AIR TELUGU**	27500
10.990	V	**AIR VBS**	27500
● 11.030	V	**Chirithira**	27500
11.030	V	**ETV Gujarathi**	27500
11.030	V	**ETV Oriya**	27500
11.030	V	**Gemini TV**	27500
11.030	V	**Jaya TV**	27500
11.030	V	**K TV**	27500
11.030	V	**Kalaignar TV**	27500
11.030	V	**Kiran TV**	27500
● 11.030	V	**M TV**	27500
11.030	V	**Set Max**	27500
11.030	V	**SS Music**	27500
11.030	V	**Star Movies**	27500
11.030	V	**Sun TV**	27500
11.030	V	**Surya TV**	27500
11.030	V	**Teja**	27500
11.030	V	**Udaya**	27500
11.030	V	**Udaya Movies**	27500
11.030	V	**Vijay TV**	27500
11.030	V	**Zee Action**	27500
11.030	V	**Zee Marathi**	27500
11.070	V	**DD MALAYALAM**	27500
11.070	V	**DD NORTH EAST**	27500
11.070	V	**DD ORIYA**	27500
11.070	V	**DD PODHIGAI**	27500
11.070	V	**DD PUNJABI**	27500
11.070	V	**DD RAJYA SABHA**	27500
11.070	V	**DD SAHYADRI**	27500
11.070	V	**DD SAPTAGIRI**	27500
● 11.070	V	**SHAKTI TV**	27500
● 11.070	V	**SHRADDHA**	27500
11.070	V	**AIR GUJRATI**	27500
11.070	V	**AIR PUNJABI**	27500
11.070	V	**FM GOLD**	27500
11.070	V	**FM RAINBOW**	27500
● 11.110	V	**Bhakthi TV**	27500
11.110	V	**Bindass Movies**	27500
11.110	V	**Channel V**	27500
11.110	V	**Chutti TV**	27500
11.110	V	**Comedy Thirai**	27500
11.110	V	**ETC Punjabi**	27500
11.110	V	**ETV 2**	27500
11.110	V	**ETV Telugu**	27500
11.110	V	**Gemini Music**	27500
11.110	V	**Gemini News**	27500
11.110	V	**Jetix**	27500
11.110	V	**Maa TV**	27500
11.110	V	**Pogo**	27500
11.110	V	**Raj TV**	27500
11.110	V	**Shalom TV**	27500
11.110	V	**Star Majaa**	27500
11.110	V	**Sun Music**	27500
11.110	V	**Sun News**	27500
11.110	V	**TV5 Telugu**	27500
11.110	V	**TV9**	27500
11.110	V	**World Movies**	27500
11.110	V	**Zee Gujarathi**	27500
11.110	V	**Zee Punjabi**	27500
11.110	V	**Zee Telugu**	27500
11.150	V	**AASTHA**	27500
11.150	V	**9XM**	27500
● 11.150	V	**CARE WORLD**	27500
● 11.150	V	**E 24**	27500
11.150	V	**ETC**	27500
11.150	V	**KAIRALI TV**	27500
11.150	V	**MAKKAL TV**	27500
11.150	V	**PTC NEWS**	27500
11.150	V	**TEST 310**	27500
11.150	V	**TOTAL TV**	27500
11.150	V	**AIR BANGLA**	27500
11.150	V	**AIR HINDI**	27500
11.150	V	**AIR KANNADA**	27500
11.150	V	**AIR N E**	27500
11.185	V	**CNBC**	20000
11.185	V	**ETV Bengali**	20000
11.185	V	**ETV Urdu**	20000
11.185	V	**HBO**	20000
11.185	V	**Hungama**	20000
11.185	V	**Jain TV**	20000
11.185	V	**Kairali**	20000
11.185	V	**Makkal TV**	20000
11.185	V	**Mega TV**	20000
11.185	V	**Podhigai**	20000
11.185	V	**Star Gold**	20000
11.185	V	**Star One**	20000
11.185	V	**Win TV**	20000
11.185	V	**Yo Music**	20000
11.185	V	**Zee Cafe**	20000
11.185	V	**Zee Music**	20000
11.185	V	**Zee TV**	20000
11.185	V	**Zoom TV**	20000
11.185	V	**SFM - B'lore**	20000
11.185	V	**SFM Hyderabad**	20000
11.185	V	**SuryanFM**	20000
● 11.185	V	**{Empty Name}**	20000
11.490	V	**Amrita TV**	27500
11.490	V	**DW-TV**	27500
11.490	V	**INDIA NEWS**	27500
11.490	V	**KBS WORLD**	27500
11.490	V	**NEWS 24**	27500
11.490	V	**NEWS LIVE**	27500
11.490	V	**NHK WORLD**	27500
11.490	V	**TEST 508**	27500
11.490	V	**TEST 509**	27500
11.490	V	**TEST 510**	27500
11.490	V	**AIR Assamese**	27500
11.490	V	**AIR Malayalam**	27500
11.490	V	**FM Gold Mumbai**	27500
11.490	V	**FM Rainbow Chennai**	27500
11.490	V	**Radio Kashmir**	27500
11.490	V	**TEST**	27500
11.530	V	**9X**	27500
11.530	V	**9XM**	27500
11.530	V	**Asianet Suvarna**	27500
11.530	V	**Cartoon Network**	27500
11.530	V	**CNN IBN**	27500
11.530	V	**Disney English**	27500
11.530	V	**ETV Kannada**	27500
● 11.530	V	**Hasya There**	27500
11.530	V	**MI Marathi**	27500
11.530	V	**N TV**	27500
11.530	V	**NDTV Good Times**	27500
11.530	V	**NDTV Imagine**	27500
11.530	V	**NE TV**	27500
11.530	V	**Nepal TV**	27500
11.530	V	**PTC Punjabi**	27500
11.530	V	**Star ananda**	27500
11.530	V	**Star Plus**	27500
11.530	V	**Star World**	27500
11.530	V	**TV 9 Kannada**	27500
11.530	V	**Udaya 2**	27500
11.530	V	**Udaya Varthegalu**	27500
● 11.530	V	**Vasanth TV**	27500
11.530	V	**Zee Cinema**	27500
11.530	V	**Zee Studio**	27500
11.570	V	**B4U Music**	27500
11.570	V	**DD Urdu**	27500
11.570	V	**Gyandarshan-1**	27500
11.570	V	**Gyandarshan-2**	27500
11.570	V	**Jaihind TV**	27500
11.570	V	**Kalaignar TV**	27500
11.570	V	**Mega TV**	27500
11.570	V	**Music India**	27500
11.570	V	**Star Utsav**	27500
11.570	V	**TEST 407**	27500
11.570	V	**AIR Oriya**	27500
11.570	V	**AIR Ragam**	27500
11.570	V	**AIR Urdu**	27500
11.570	V	**FM Rainbow Banglore**	27500
● 11.610	V	**Aaj Tak**	27500
11.610	V	**Akash Bangla**	27500
11.610	V	**Asianet**	27500
11.610	V	**Asianet News**	27500
11.610	V	**Asianet Plus**	27500
11.610	V	**Bindass**	27500
11.610	V	**Colors**	27500
11.610	V	**ETV Marathi**	27500
11.610	V	**God TV**	27500
11.610	V	**History Channel**	27500
11.610	V	**India Vision**	27500
11.610	V	**Jeevan**	27500
11.610	V	**Kairali People**	27500
11.610	V	**Kairali We**	27500
● 11.610	V	**Navvula Thera**	27500
11.610	V	**NGC**	27500
11.610	V	**O TV**	27500
11.610	V	**Sanskar**	27500
11.610	V	**Shakti TV**	27500
11.610	V	**Times Now**	27500
11.610	V	**UTV Movies**	27500
11.610	V	**UTV News**	27500
11.610	V	**Zee bengali**	27500
11.610	V	**Zee Sports**	27500
11.645	V	**ABC**	20000
● 11.645	V	**AXN**	20000
11.645	V	**CCTV 9**	20000
11.645	V	**CNN**	20000
11.645	V	**Daystar**	20000
11.645	V	**Fashion TV**	20000
11.645	V	**Jaya Plus**	20000
11.645	V	**Manorama News**	20000
11.645	V	**NDTV 24x7**	20000
11.645	V	**NDTV India**	20000
11.645	V	**NDTV Profit**	20000
● 11.645	V	**News X**	20000
11.645	V	**Raj Vissa**	20000
11.645	V	**Ten Sports**	20000
● 11.645	V	**VH1**	20000
11.645	V	**Zee Classic**	20000
11.645	V	**Zee Kannada**	20000
11.645	V	**Zee Premier**	20000
● 11.645	V	**{Empty Name}**	20000
● 11.668	V	**TEST HD -2**	9500
● 11.668	V	**TEST HD -1**	9500
● 11.682	V	**Animal Planet**	9500
11.682	V	**CNBC Awaaz**	9500
● 11.682	V	**Discovery**	9500
● 11.682	V	**Nickelodeon**	9500
● 11.682	V	**SAB**	9500
● 11.682	V	**Sony**	9500
● 11.682	V	**Sony Pix**	9500
11.682	V	**Star News**	9500
11.038	H	**CHANNEL V**	40700
11.038	H	**CNBC AWAAZ**	40700
11.038	H	**CNN IBN**	40700
11.038	H	**DISH INTERACTIVE**	40700
11.038	H	**DISNEY CHANNEL**	40700
11.038	H	**ETV 2**	40700
11.038	H	**ETV BANGLA**	40700
11.038	H	**ETV GUJARATI**	40700
11.038	H	**ETV KANNADA**	40700
11.038	H	**ETV ORIYA**	40700
11.038	H	**ETV TELUGU**	40700
11.038	H	**ETV UP**	40700
11.038	H	**ETV URDU**	40700
11.038	H	**HISTORY CHANNEL**	40700
11.038	H	**HUNGAMA**	40700
11.038	H	**KHEL ACTIVE**	40700
11.038	H	**KIDS ACTIVE**	40700
11.038	H	**NAT GEO**	40700
11.038	H	**NE TV**	40700
11.038	H	**STAR UTSAV**	40700
11.038	H	**TOON DISNEY**	40700
11.038	H	**TV 5 MONDE**	40700
11.091	H	**CGNTV**	29500
12.534	V	**BBC WORLD**	40700
12.534	V	**BOOMERANG**	40700
12.534	V	**ESPN**	40700
12.534	V	**FILMY**	40700
12.534	V	**GEMINI NEWS**	40700
12.534	V	**INDIA NEWS**	40700
12.534	V	**ISAI ARUVI**	40700
12.534	V	**MAA TV**	40700
12.534	V	**MANORAMA NEWS**	40700
12.534	V	**MGM**	40700
12.534	V	**NDTV IMAGINE**	40700

TV Digital | **Radio** Digital | **TV** Digital Crypt | **Radio** Digital Crypt | **TV** High Definition | **TV** High Definition Crypt

	Freq GHz	Pol	Channel Name	Symbol rate
	12.534	V	RAJ DIGITAL	40700
	12.534	V	RAJ TV	40700
	12.534	V	SAHARA ONE	40700
	12.534	V	SAMAY TV	40700
	12.534	V	STAR ONE	40700
	12.534	V	STAR PLUS	40700
	12.534	V	ZEE GUJARATI	40700
	12.534	V	ZEE TELUGU	40700
	12.534	V	ZOOM TV	40700
	12.534	V	ZEE JAGRAN	40700
	12.595	V	24 GHANTA	40700
	12.595	V	9X	40700
	12.595	V	AAKAASH BANGLA	40700
	12.595	V	ASIANET	40700
	12.595	H	ASIANET NEWS	40700
	12.595	H	ASIANET PLUS	40700
	12.595	V	CNEB	40700
	12.595	H	DISH NEWS ACTIVE	40700
	12.595	H	DISH SPORTS ACTIV	40700
	12.595	H	ETV MARATHI	40700
	12.595	V	FASHION TV	40700
	12.595	H	GAMES ACTIVE	40700
	12.595	V	INDIA TV	40700
	12.595	V	JAYA TV	40700
	12.595	V	LIVE INDIA	40700
	12.595	V	MI MARATHI	40700
	12.595	V	Movie Active	40700
	12.595	H	MOVIE ON DEMAND 1	40700
	12.595	H	MOVIE ON DEMAND 2	40700
	12.595	H	MOVIE ON DEMAND 3	40700
	12.595	H	MOVIE ON DEMAND 4	40700
	12.595	H	MOVIE ON DEMAND 5	40700
	12.595	H	MOVIE ON DEMAND 6	40700
	12.595	H	NDTV PROFIT	40700
	12.595	V	NEPAL 1	40700
	12.595	V	PLAY TV	40700
	12.595	V	SS MUSIC	40700
	12.595	H	STAR VIJAY	40700
	12.595	V	TBN	40700
	12.595	H	TCM	40700
	12.595	V	TOPPER	40700
	12.595	V	TV9 KANNADA	40700
	12.595	V	TV9 TELUGU	40700
	12.595	V	VOICE OF INDIA	40700
	12.595	V	ZEE 24 TAAS	40700
	12.595	H	ZEE NEWS	40700
	12.595	V	ZEE TALKIES	40700
●	12.595	H	BHAKTI Mosaic	40700
	12.595	V	SMILE TV	40700
●	12.595	V	ZEE TAMIL	40700
●	12.638	V	COLORS	13300
	12.638	V	OTV	13300
	12.638	V	PTC Punjabi	13300
●	12.638	V	ZEE 24G CHHATTISG	13300
●	12.638	V	TIME TV	13300
	12.647	H	ANIMAL PLANET	27500
	12.647	H	ANIMAX	27500
	12.647	H	AXN	27500
	12.647	H	DISCOVERY	27500
	12.647	H	DISCOVERY T & LIV	27500
	12.647	H	M TV	27500
	12.647	H	MAX	27500
	12.647	H	NDTV INDIA	27500
	12.647	H	NICKELODEON	27500
	12.647	H	PIX	27500
	12.647	H	SAB TV	27500
	12.647	H	SONY	27500
	12.647	H	TEN SPORTS	27500
	12.647	H	999 Active	27500
	12.688	H	CHUTTI TV	27500
	12.688	H	GEMINI MUSIC	27500
	12.688	H	GEMINI TV	27500
	12.688	H	K TV	27500
	12.688	H	KIRAN TV	27500
	12.688	H	SUN MUSIC	27500
	12.688	H	SUN NEWS	27500
	12.688	H	SUN TV	27500
	12.688	H	SURYA TV	27500
	12.688	H	TEJA TV	27500
	12.688	H	U2	27500
	12.688	H	UDAYA MOVIES	27500
	12.688	H	UDAYA TV	27500
	12.688	H	UDAYA VARTHEGALU	27500
	12.688	V	ZEE BANGLA	27500
	12.688	V	ZEE CAFE	27500
	12.688	V	ZEE KANNADA	27500
	12.688	V	ZEE MARATHI	27500
	12.688	V	ZEE MUZIC	27500
	12.688	V	ZEE PUNJABI	27500
	12.688	V	ZEE STUDIO	27500
	12.688	V	ZEE TV	27500
	12.688	V	Playjam	27500
	12.729	V	CARTOON NETWORK	27500
	12.729	V	CNBC TV 18	27500
	12.729	V	CNN	27500
	12.729	V	HBO	27500
	12.729	V	NDTV 24x7	27500
	12.729	V	NEWS X	27500
	12.729	V	STAR CRICKET	27500
	12.729	V	ZEE BUSINESS	27500
	12.729	V	ZEE CINEMA	27500
	12.729	V	ZEE NEXT	27500
	12.729	V	ZEE SPORTS	27500
	12.729	V	ZEE TRENDZ	27500
●	11.172	H	AAJ TAK	27500
●	11.172	H	Cinema Active	27500
●	11.172	H	ETC PUNJABI	27500
●	11.172	H	MUSIC Active	27500
●	11.172	H	POGO	27500
●	11.172	H	STAR GOLD	27500
●	11.172	H	STAR MOVIES	27500
●	11.172	H	STAR NEWS	27500
●	11.172	H	STAR SPORTS	27500
●	11.172	H	STAR WORLD	27500
●	11.172	H	TIMES NOW	27500
●	11.172	H	VH1	27500
●	11.172	H	ZEE ACTION	27500
●	11.172	H	ZEE CLASSIC	27500
●	11.172	H	ZEE PREMIERE	27500

South East Asia

NSS 6
95.1 East

	Freq GHz	Pol	Channel Name	Symbol rate
●	11.635	H	ACE CHANNEL	27500
	11.635	H	CGNTV	27500
	11.635	H	DMC	27500
	11.635	H	For Mankind TV	27500
	11.635	H	Nation Channel	27500
●	11.635	H	News 1	27500
●	11.635	H	PEAK CHANNEL	27500
	11.635	H	Suwannabhumi Ch	27500
	11.635	H	TCC	27500
	11.676	H	Body and Mind	27500
	11.676	H	e-San Discovery	27500
	11.676	H	For the Earth TV	27500
	11.676	H	News 1	27500
	11.676	H	Suwannabhumi Channel	27500
	11.676	H	TOC	27500
	11.676	H	Variety	27500
	11.676	H	ASTV Radio 1	27500
	11.676	H	ASTV Radio 2	27500
	11.676	H	ASTV Radio 3	27500
	11.676	H	ASTV Radio 4	27500
	11.676	H	ASTV Radio 5	27500
	11.676	H	ASTV Radio 6	27500

EXPRESS AM 33
96.5 East

EXP033CB

	Freq GHz	Pol	Channel Name	Symbol rate
●	3.675	R	7TV	33483
●	3.675	R	Dubl-3+RRD3	33483
●	3.675	R	Orbita-3R+Mayak	33483
●	3.675	R	Kultura-2+Vesti-FM	33483
●	3.675	R	TRK5_Kamchatka	33483
●	3.675	R	TRK5_MSK	33483
●	3.675	R	TRK5_Sibir	33483
●	3.675	R	DFM Region	33483
●	3.675	R	Hit-FM	33483
●	3.675	R	MAXIMUM	33483
●	3.675	R	RSN	33483
●	3.675	R	Russian Radio	33483
●	3.675	R	Data SMR_96.5	33483
●	3.675	R	DOBRYE_PESNI	33483
●	3.675	R	Radio Al-15	33483
●	3.675	R	Radio Al-16	33483
●	3.675	R	Radio CH20	33483
●	3.675	R	Radio CH21	33483
●	3.675	R	Radio CH22	33483
●	3.675	R	Radio CH23	33483
●	3.675	R	Radio CH24	33483
●	3.675	R	Radio CH25	33483
●	3.675	R	Radio CH26	33483
●	3.675	R	Radio CH27	33483
●	3.675	R	Radio CH28	33483
●	3.675	R	Radio CH29	33483
●	3.675	R	Radio CH30	33483
●	3.675	R	Radio CH70	33483
●	3.675	R	Radio CH71	33483
●	3.675	R	Radio MayakO3	33483
●	3.675	R	Radio RossiiD3	33483
●	3.675	R	Radio Vesti-FM	33483
●	3.675	R	Radio Yunost O2	33483
●	3.758	R	TK Rossia NGTRK	4340
●	3.795	R	Alt TV	1478
●	3.808	R	TPK-CEBEP	3215
●	3.817	R	GTRK Altai	4270
●	3.838	R	GTRK Perm	3230
●	3.843	R	GTRK_KURGAN	3220
●	3.925	R	1TVRUS vostok	4883
●	4.108	R	BGTRK	4275
●	4.114	R	RTPC Irkutsk	4285
●	4.143	R	TRV Muzhi	3210
●	4.175	R	Krasnoyrsk	3294

PROTOSTAR 1
98.5 East

	Freq GHz	Pol	Channel Name	Symbol rate
●	11.536	H	TVLanka	27500
●	11.536	H	TVLTest	27500
●	11.536	H	Shakthi	27500
●	11.536	H	Sooryan	27500

C-Band: ASIASAT 2
100.5 East

ASI002CB

	Freq GHz	Pol	Channel Name	Symbol rate
	3.660	V	AL EMARAT	27500
	3.660	V	AL-ALAM	27500
	3.660	V	ALKASS	27500
	3.660	V	IRIB3	27500
	3.660	V	NILE NEWS	27500
	3.660	V	PRESS TV PROMO	27500
	3.660	V	EL BERNAMERG	27500
	3.660	V	EL-QURAN EL-KARIM	27500
	3.660	V	RADIO MAAREF	27500
	3.660	V	RADIO QURAN	27500
	3.660	V	RADIO SARASARI	27500
	3.707	H	UP4	4165
	3.760	H	E! Asia	27500
●	3.760	H	The Style Network As	27500
●	3.768	V	AsiaPacific	6525
	3.779	V	AJK-TV.	3333
	3.789	H	BRUNEI INTERNATIO	6000
	3.793	V	Shamshad TV	2443
●	3.802	H	APTN1 GVW +4420748	5630
	3.820	V	Abu Dhabi TV	27500
	3.820	V	Aljazeera Channel	27500
	3.820	V	KUWAIT	27500
	3.820	V	Libiya TV	27500
	3.820	V	Oman TV	27500
	3.820	V	Qatar TV	27500
	3.820	V	Saudi Arabian TV 2	27500
	3.820	V	SAUDI TV	27500
	3.820	V	Sharjah TV	27500
	3.820	V	Sudan TV	27500
	3.820	V	Syria TV	27500
	3.820	V	Yemen TV	27500
	3.820	V	EMIRATES FM	27500
	3.820	V	Main General Program	27500
	3.820	V	Oman Holy Quran	27500
	3.820	V	Oman Radio	27500
	3.820	V	Qatar Radio	27500
	3.820	V	Radio Omdurman Holy	27500
	3.820	V	Radio Quran	27500
	3.820	V	Saudi Radio 1	27500
	3.820	V	Sharjah FM	27500
	3.820	V	Sudan Radio	27500
	3.820	V	Voice of people	27500
	3.820	V	Voice of Youth	27500
	3.820	V	Yemen Radio 1	27500
	3.820	V	Yemen Radio 2	27500
●	3.907	H	Reuters WNS	4000
	3.960	H	CFI Asia pro	27500
	3.960	H	TRACE TV	27500
	3.960	H	VISION2	27500
	3.960	H	Cancao Nova	27500
●	3.960	H	DAYSTAR	27500
	3.960	H	EURONEWS-AFRICA	27500
	3.960	H	RECORD INTERNATIO	27500
	3.960	H	Supreme Master TV	27500
	3.980	V	511	28100
	3.980	V	702 STAR PLUS	28100
	3.980	V	704 STAR Movies	28100
	3.980	V	707 STAR GOLD	28100
	3.980	V	736 Adventure	28100
	3.980	V	737 Adventure	28100
	3.980	V	741 History/Adventur	28100
	3.980	V	751 Star World India	28100
	3.980	V	752 Channel [V] Indi	28100
	3.980	V	754 STAR Plus Paki	28100
	3.980	V	777 STAR One India	28100
	3.980	V	800 Vijay India	28100
	3.980	V	Adventure	28100
	3.980	V	CHanneL [V]	28100
	3.980	V	History/Adventure	28100
	3.980	V	STAR Gold	28100
	3.980	V	STAR Movies	28100
	3.980	V	STAR One India	28100
	3.980	V	STAR Plus	28100
	3.980	V	STAR World	28100
	3.980	V	VIJAY	28100
	4.000	H	LUXE-TV-HD	28120
	4.000	H	Cubavision	28120
	4.000	H	LUXE-TV-SD	28120
	4.000	H	RAI International	28120
	4.000	H	RTPi	28120
	4.000	H	RTR Planeta	28120
	4.000	H	TVE	28120
	4.000	H	RAI International As	28120
	4.000	H	RAIRadio	28120
	4.000	H	RDP Antena 1	28120
	4.000	H	RDP Internacional	28120
	4.000	H	REE	28120
	4.000	H	RFI Cambodge	28120
	4.000	H	RFI Francais	28120
	4.000	H	RFI Langues1	28120
	4.000	H	RNE Contribucion	28120
	4.000	H	RNW	28120
	4.000	H	WRN	28120
	4.000	H	WRN Mul AAP	28120
	4.000	H	YLESAT1	28120
	4.000	H	YLESAT2	28120
	4.149	V	BAR	11850
	4.149	V	MACAU1	11850
	4.149	V	MACAU2	11850
	4.149	V	MACAU3	11850
	4.149	V	MACAU4	11850
	4.149	V	MACAU5	11850

ASIASAT 2
100.6 East

ASI002KU

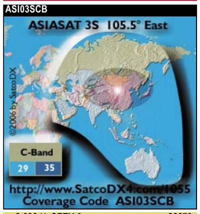
	Freq GHz	Pol	Channel Name	Symbol rate
	12.267	V	XHTV	5400

EXPESS A2,KAZSAT 1
103.0 East

	Freq GHz	Pol	Channel Name	Symbol rate
	3.675	R	Duble-1+RRD1	31100
	3.675	R	Duble-2+RRD2	33469
	3.675	R	FNS	31100
	3.675	R	Orbita-1+Mayak	
	3.675	R	Orbita-2+Yunost	33469
	3.675	R	Kultura-1	31100
	3.675	R	MuzTV_Love	31100
	3.675	R	Radio Love	31100
	3.675	R	Radio Maximum	31100
	3.675	R	Radio Mayak	31100
	3.675	R	Radio RussiaD1	31100
	11.475	R	FNS	29800
	11.475	R	MuzTV_Love	29800
	11.475	R	Radio Love	29800
	11.475	R	Radio Mayak	29800

C-Band: ASIASAT 3S
105.5 East

ASI03SCB



	Freq GHz	Pol	Channel Name	Symbol rate
	3.680	H	CETV-2	26670
	3.680	H	CETV-1	26670
	3.680	H	Maharishi	26670
	3.700	V	Test 2	27500
	3.700	V	Z STUDIO	27500
	3.700	V	Z TRENDZ	27500
	3.700	V	ZEE CAFE	27500
	3.700	V	ZEE M E	27500
	3.700	V	ZEE MALAY	27500
	3.700	V	Zee S E A	27500
	3.706	H	CNAI NTSC	6000
	3.706	H	CNAI PAL	6000
	3.725	V	BTV WORLD	4450
	3.729	H	Celestial CMC	13650
	3.729	H	Celestial CMV	13650
	3.729	H	AZIO ASIA PLUS	13650
	3.729	H	TVB8	13650
	3.733	V	ACTION Cinema DTO	6500
	3.733	V	CLASSIC Cinema DT	6500
	3.733	V	PREMIER Cinema DT	6500
	3.733	V	Test New DTO	6500
	3.746	V	FASHION TV	2628
●	3.751	V	AAJ TV	2820
●	3.755	V	Arirang2	4418
●	3.760	H	Eurosport Asia	26000
●	3.760	H	EurosportNews	26000
●	3.760	H	Al Jazeera Internati	26000
●	3.760	H	Bloomberg	26000
●	3.760	H	DW-TV ASIA	26000
●	3.760	H	Muslim TV1	26000
●	3.760	H	Muslim TV2	26000
●	3.760	H	NOW	26000
●	3.760	H	Russia Today	26000
●	3.760	H	Supreme Master TV	26000
●	3.760	H	TV5	26000
●	3.760	H	DW-M	26000
●	3.760	H	DW01	26000
●	3.760	H	DW02	26000
●	3.760	H	DW04	26000
●	3.760	H	DW05	26000
●	3.760	H	DW06	26000
●	3.760	H	DW08	26000
●	3.760	H	DW09	26000
●	3.760	H	RFI Francais	26000
●	3.760	H	RFI Langues1	26000
	3.780	V	508	28100
	3.780	V	701 FOX Sports	28100
	3.780	V	708 Nat. Geo	28100
	3.780	V	709 NG Wild	28100
	3.780	V	710 Fox Crime	28100
	3.780	V	722 STAR Chinese M	28100
	3.780	V	764 StarCont	28100
	3.780	V	767 Movies ME	28100
	3.780	V	773 Movies ME	28100
	3.780	V	779 World ME	28100
	3.780	V	780 World PH	28100
	3.780	V	793 STAR Chinese M	28100
	3.780	V	Nat. Geo	28100
	3.780	V	STAR	28100
	3.780	V	STAR Movies ME	28100
	3.780	V	STAR World	28100
	3.780	V	769 STAR Utsav	28100
	3.780	V	STAR UTSAV	28100
	3.786	H	News One	5700
	3.786	H	Tv One	5700
	3.786	H	WASEB_TV	5700
	3.793	H	Service 2	3000
	3.840	H	609 Sky News	26850
	3.840	H	610 Fox News	26850
	3.840	H	750 [V] Taiwan	26850
	3.840	H	756 STAR Chinese C	26850
	3.840	H	757 Star Chinese Mov	26850
	3.840	H	758 Star Movies	26850
	3.840	H	759 Nat Geo T	26850
	3.840	H	760 [V] TAIWAN	26850
	3.840	H	761 Sky News	26850
	3.840	H	762 Fox News	26850
	3.840	H	790 STAR Chinese I	26850
	3.840	H	FOX News	26850
	3.840	H	Sky News	26850
	3.880	H	9X_A	27500
	3.880	H	9XM_A	27500
	3.920	H	20 STAR SPORTS AS	26850
	3.920	H	201 ESPN Malaysia	26850
	3.920	H	202 ESPN ASIA	26850
	3.920	H	206 STAR SPORTS T	26850
	3.920	H	207 Star Sports Mala	26850
	3.920	H	208 STAR Sports SE	26850
	3.920	H	220 ESS CONT1	26850
	3.920	H	222 ESPN CHINA	26850
	3.920	H	216 BPL RADIO	26850
	3.940	V	703 STAR PLUS ME	28100
	3.940	V	711 Fox FX	28100
	3.940	V	712 Nat Geo Philippi	28100
	3.940	V	714 STAR One ME	28100
	3.940	V	725 STAR Gold Int'	28100
	3.940	V	785 STAR Plus ME	28100
	3.940	V	786 STAR One	28100
	3.940	V	787 Vijay US	28100
	3.940	V	788 STAR Chinese M	28100
	3.940	V	789 STAR News HK	28100
	3.940	V	791 STARCon	28100
	3.940	V	STAR Gold Int'l	28100
	3.940	V	STAR News	28100
	3.940	V	STAR Plus	28100
	3.960	H	Boomerang	27500
	3.960	H	Boomerang SE Asia	27500
	3.960	H	Carton Macau	27500
	3.960	H	Cartoon Asia	27500
	3.960	H	Cartoon Australia	27500
	3.960	H	Cartoon Philippines	27500
	3.960	H	Cartoon Taiwan	27500
	3.960	H	CNNI Asia	27500
	3.960	H	Newsource DNEW	27500
	3.960	H	TCM Australia	27500
	3.980	V	511	28100
	3.980	V	702 STAR PLUS	28100
	3.980	V	704 STAR Movies	28100
	3.980	V	707 STAR GOLD	28100
	3.980	V	736 Adventure	28100
	3.980	V	737 Adventure	28100
	3.980	V	741 History/Adventur	28100
	3.980	V	751 Star World India	28100
	3.980	V	752 Channel [V] Indi	28100
	3.980	V	754 STAR Plus Paki	28100
	3.980	V	777 STAR One India	28100
	3.980	V	800 Vijay India	28100
	3.980	V	Adventure	28100
	3.980	V	CHanneL [V]	28100
	3.980	V	History/Adventure	28100
	3.980	V	STAR Gold	28100
	3.980	V	STAR Movies	28100
	3.980	V	STAR One India	28100
	3.980	V	STAR Plus	28100
	3.980	V	STAR World	28100
	3.980	V	VIJAY	28100
●	4.000	H	604 Channel [V] Int'	26850
●	4.000	H	715 Ph'x Movies	26850
●	4.000	H	716 STAR Chinese M	26850
●	4.000	H	721 Movies Int'l	26850
●	4.000	H	739 Movies Int'l	26850
●	4.000	H	748 Star World Asia	26850
●	4.000	H	749 Star World	26850
●	4.000	H	765 Nat. Geo	26850
●	4.000	H	766 Channel [V] Int'	26850
●	4.000	H	771 Movies Int'l	26850
●	4.000	H	775 Movies Int'l	26850
●	4.000	H	776 Nat. Geo	26850
●	4.000	H	778 Xing Kong Region	26850
●	4.000	H	Channel [V] Int'l	26850
●	4.000	H	Nat. Geo	26850
●	4.000	H	STAR Movies Int'l	26850
●	4.000	H	STAR World	26850
●	4.000	H	Subtitle-Test.	26850
●	4.000	H	726 Ph'x Info	26850
●	4.000	H	743 Phoenix Chinese	26850
●	4.000	H	745 XING KONG	26850
●	4.000	H	747 Channel [V] Chin	26850
	4.020	V	FIRANGI	27250
	4.020	V	Sahara FILMI	27250
	4.020	V	Sahara ONE	27250
	4.020	V	Aalami Sahara	27250
	4.020	V	Sahara BIH	27250
	4.020	V	Sahara MP	27250
	4.020	V	Sahara MUM	27250
	4.020	V	Sahara NAT	27250
	4.020	V	Sahara NCR	27250
	4.020	V	Sahara UP	27250
●	4.040	H	AETN TV 340	20400
●	4.040	H	Farda Radio 404	20400
●	4.040	H	Farda/VOA/RFE Radi	20400
●	4.040	H	IBB OS Download 8	20400
●	4.040	H	IBB OS Download 9	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
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●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	IBB VOA RFE/RL Ra	20400
●	4.040	H	Not Scheduled 402	20400
●	4.040	H	RFA Radio 390	20400
●	4.040	H	VOA Asiasat TV 1	20400
●	4.040	H	VOA Asiasat TV 370	20400
●	4.040	H	VOA Asiasat TV 371	20400
●	4.040	H	VOA Asiasat TV 372	20400
●	4.040	H	VOA Asiasat TV 377	20400
●	4.040	H	VOA Asiasat TV 378	20400
●	4.040	H	VOA IOR TV 409	20400
●	4.040	H	VOA Radio 380	20400
●	4.040	H	VOA Radio 381	20400
●	4.040	H	VOA Radio 383	20400
●	4.040	H	RFA 1 Radio 411	20400
●	4.040	H	RFA 2 Radio 412	20400
●	4.040	H	RFA 3 Radio 413	20400
●	4.040	H	RFA 4 Radio 414	20400
	4.091	V	ATV	13330
	4.091	V	AVT Khyber	13330
	4.091	V	PTV world	13330
	4.091	V	PTV1	13330
	4.091	V	Radio Pakistan 1	13330
	4.091	V	Radio Pakistan 2	13330
●	4.095	H	{Empty Name}	5550
	4.103	V	PTV GLOBAL USA	2895
	4.108	V	PTV GLOBAL UK EUR	2893
	4.111	H	MATV	13650
	4.111	H	Xing He	13650
	4.111	H	i-Horizon	13650
●	4.111	H	Lotus	13650
●	4.114	V	Ptv-K LAT	7000
●	4.114	V	Ptv National	7000
●	4.114	V	PTV-K FEED	7000
●	4.114	V	Radio Pakistan 1	7000
●	4.130	H	Hum TV	13600
●	4.130	H	Masala TV	13600
●	4.130	H	Style 360	13600
	4.140	V	ZEE TAMIL	27500
●	4.140	V	ZEE 36GARH	27500
	4.140	V	ZEE BANGLA	27500
	4.140	V	ZEE BUSINESS	27500
	4.140	V	ZEE CINEMA	27500
	4.140	V	ZEE GUJRATI	27500
	4.140	V	ZEE MARATHI	27500
	4.140	V	ZEE PUNJABI	27500
	4.140	V	ZEE NEWS	27500
	4.140	V	ZEE TV - NEW	27500
	4.140	V	ZEE MUSIC	27500
	4.140	V	ZEE SMILE	27500
●	4.180	V	GEO INTL	26666
	4.180	V	GEO ME	26666
●	4.180	V	GEO NEWS	26666
●	3.860	V	401 ESPN Taiwan	27500
●	3.860	V	402 ESPN Taiwan	27500
●	3.860	V	405 ESPN Asia	27500
●	3.860	V	406 ESPN Asia	27500
●	3.860	V	407 ESPN Asia	27500
●	3.860	V	408 ESPN Asia	27500
●	3.860	V	409 STAR Sports So	27500
●	3.860	V	410 STAR Sports So	27500
●	3.860	V	411 STAR Sports In	27500
●	3.860	V	412 STAR Sports In	27500
●	3.860	V	413 STAR Sports Ta	27500
●	3.860	V	414 STAR Sports Ta	27500
●	3.860	V	420 STAR Sports So	27500
●	3.860	V	423 STAR Cricket	27500
●	3.860	V	424 STAR Cricket	27500
●	3.860	V	441 STAR Sports	27500
●	3.860	V	442 STAR Sports	27500
●	3.860	V	481 STAR Sports	27500
●	3.860	V	482 STAR Sports	27500
●	3.860	V	705 STAR Sports	27500
●	3.860	V	706 STAR Sports	27500
●	3.860	V	717 STAR Cricket	27500
●	3.860	V	718 STAR Cricket	27500
●	3.860	V	719 ESPN India	27500
●	3.860	V	720 ESPN India	27500
●	3.860	V	723 STAR Sports	27500
●	3.860	V	742 STAR Sports	27500
●	3.860	V	755 ESPN	27500
●	3.860	V	763 STAR Sports	27500
●	3.860	V	772 ESPN India	27500
●	3.860	V	792 ESPN India	27500
●	3.860	V	ESPN Asia	27500
●	3.860	V	ESPN India	27500
●	3.860	V	ESPN Philippines	27500
●	3.860	V	STAR Cricket	27500
●	3.860	V	STAR Sports	27500
●	3.860	V	STAR Sports SEA	27500
●	3.860	V	480 CUE	27500

ASIASAT 3S
105.6 East

ASI03SSA

	Freq GHz	Pol	Channel Name	Symbol rate
	12.352	V	IRIB QURAN	30000
	12.352	V	IRIB3	30000
	12.352	V	IRIBAMOOZESH	30000
	12.352	V	IRIBTV1	30000
	12.352	V	IRIBTV2	30000
	12.352	V	IRIBTV3	30000
	12.352	V	IRIBTV4	30000
	12.352	V	IRIBTV5	30000
	12.352	V	IRINN	30000
	12.352	V	PRESS TV	30000
	12.352	V	SAHAR	30000
	12.352	V	RADIO FARHANG	30000
	12.352	V	RADIO IRAN	30000
	12.352	V	RADIO JAVAN	30000
	12.352	V	RADIO MAAREF	30000
	12.352	V	RADIO PAYAM	30000
	12.352	V	RADIO QURAN	30000
	12.352	V	RADIO SEDAYE ASHN	30000
	12.352	V	RADIO VARZESH	30000
	12.378	V	IRIB TABAN	3100
	12.382	V	HAMOON	3100
●	12.465	V	Noor TV	3100
	12.469	V	TAMADON TV	2900
●	12.683	V	IRIB KERMAN	5800
●	12.683	V	IRIB KHALIJEFARS	5800
●	12.683	V	KERMAN FEED	5800
●	12.683	V	RADIO BANDARABAS	5800
●	12.683	V	RADIO KERMAN	5800

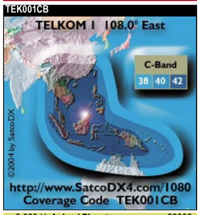
CAKRAWARTA 1
107.7 East

CAK001SB

	Freq GHz	Pol	Channel Name	Symbol rate
	2.535	H	Animax	20000
	2.535	H	BBC Knowledge	20000
	2.535	H	Celestial Movies	20000
	2.535	H	Channel [V]	20000
	2.535	H	Disc. Travel & Livin	20000
	2.535	H	ESPN	20000
	2.535	H	FoxCrime	20000
	2.535	H	Indosiar	20000
	2.535	H	MNC Music Channel	20000
	2.535	H	NGC	20000
	2.535	H	RCTI	20000
	2.535	H	STAR World	20000
	2.535	H	Universal Channel	20000
	2.535	H	BBC World Service	20000
	2.535	H	Radio Kis FM	20000
	2.535	H	Radio Woman	20000
	2.535	H	RadioNet Mandiri	20000
	2.565	H	Australia Network	20000
	2.565	H	Cartoon Network	20000
	2.565	H	Cbeebies	20000
	2.565	H	Channel NewsAsia	20000
	2.565	H	Disney	20000
	2.565	H	KBS World	20000
	2.565	H	Nickelodeon	20000
●	2.565	H	OKE Nusantara	20000
	2.565	H	Playhouse Disney	20000
	2.565	H	Quick Channel	20000
	2.565	H	Swara	20000
	2.565	H	TBN/U Chnl Trial	20000
	2.565	H	TVRI	20000
	2.565	H	Vision3 Baby	20000
●	2.595	H	Animax	20000
	2.595	H	AXN	20000
●	2.595	H	BBC Knowledge	20000
	2.595	H	BBC World	20000
●	2.595	H	Celestial Movies	20000
●	2.595	H	Channel [V]	20000
	2.595	H	CNBC Asia	20000
	2.595	H	CNNI	20000
	2.595	H	Discovery	20000
●	2.595	H	ESPN	20000
	2.595	H	Eurosport	20000
●	2.595	H	FoxCrime	20000
	2.595	H	Hallmark	20000
	2.595	H	HBO	20000
	2.595	H	HBO Signature	20000
●	2.595	H	Indosiar	20000
●	2.595	H	MNC Music Channel	20000
●	2.595	H	NGC	20000
	2.595	H	NHK	20000
●	2.595	H	RCTI	20000
●	2.595	H	STAR World	20000
	2.595	H	Stock Watch	20000
●	2.595	H	Universal Channel	20000
	2.595	H	Vision1 Sports	20000
	2.595	H	Vision2 Drama	20000
●	2.595	H	Disc. Travel & Livin	20000
●	2.595	H	BBC World Service	20000
	2.595	H	Radio ARH Global	20000
●	2.595	H	Radio Kis FM	20000
	2.595	H	Radio LITE FM	20000
	2.595	H	Radio Mustang	20000
	2.595	H	Radio PAS FM	20000
	2.595	H	Radio Pelita Kasih	20000
	2.595	H	Radio SMART FM	20000
	2.595	H	Radio Trijaya	20000
●	2.595	H	Radio Woman	20000
●	2.595	H	RadioNet Mandiri	20000
	2.625	H	AFC	20000
	2.625	H	Animal Planet	20000
	2.625	H	ANTV	20000
	2.625	H	Cinemax	20000
	2.625	H	E!	20000
●	2.625	H	FEED 1	20000
	2.625	H	Ginx	20000
	2.625	H	Max Bollywood	20000
	2.625	H	MTV Asia	20000
	2.625	H	STAR Movies	20000
	2.625	H	STAR Sports	20000
	2.625	H	Test Channel	20000
	2.625	H	Trans 7	20000
	2.625	H	Radio Australia	20000
	2.625	H	Radio Dangdut TPI	20000
	2.625	H	Radio Sonora	20000
	2.625	H	Voice of America	20000
●	2.655	H	Animax	20000
●	2.655	H	BBC Knowledge	20000
●	2.655	H	Celestial Movies	20000
●	2.655	H	Disc. Travel & Livin	20000
●	2.655	H	ESPN	20000
●	2.655	H	FoxCrime	20000
●	2.655	H	Indosiar	20000
●	2.655	H	MNC Music Channel	20000
●	2.655	H	NGC	20000
●	2.655	H	STAR World	20000
●	2.655	H	Universal Channel	20000
●	2.655	H	Channel [V]	20000
●	2.655	H	RCTI	20000
●	2.655	H	BBC World Service	20000
●	2.655	H	Radio Kis FM	20000
●	2.655	H	Radio Woman	20000
●	2.655	H	RadioNet Mandiri	20000

C-Band: TELKOM 1
108.0 East

TEK001CB

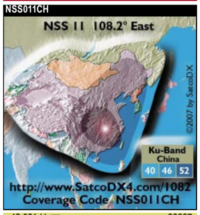


	Freq GHz	Pol	Channel Name	Symbol rate
	3.580	H	Animal Planet	28000
●	3.580	H	Cartoon Network	28000
	3.580	H	Cinemax	28000
	3.580	H	CNBC	28000
●	3.580	H	CNN Intl	28000
	3.580	H	Discovery	28000
	3.580	H	Formosa TV	28000
	3.580	H	HBO	28000
	3.580	H	MTV	28000
●	3.580	H	National Geographic	28000
	3.580	H	NHK	28000
	3.580	H	Nickleodeon	28000
●	3.580	H	Star Movies	28000
	3.580	H	Star Sports	28000
	3.580	H	Star World	28000
	3.580	H	TV One	28000
	3.580	H	Radio 1	28000
●	3.620	H	AFC	28000
	3.620	H	Animax	28000
	3.620	H	AXN	28000
●	3.620	H	BBC World	28000
	3.620	H	Celestial	28000
	3.620	H	Channel 2	28000
●	3.620	H	Discovery T&L	28000
●	3.620	H	Discovery Tb	28000
●	3.620	H	Disney Channel	28000
●	3.620	H	E! Ent	28000
	3.620	H	ESPN	28000
	3.620	H	Fashion TV	28000
	3.620	H	Hallmark	28000
	3.620	H	HBO Signature	28000
	3.620	H	Ten Sport	28000
	3.620	H	Channel 1	28000
●	3.620	H	Radio 2	28000
●	4.085	H	TransTV_Test1	6000
●	3.776	H	RADIO TELEVISAO T	4285
●	3.785	H	Televjsi Edukasi	4000
●	3.797	H	JAYAPURA*TV_PAPUA	3900
●	3.807	H	TVE 2ND PROGRAMME	4000
●	3.990	H	TV7-Network	6000
●	4.015	H	RO BANDA ACEH	6000
●	4.092	H	MetroPapua	3570
●	4.097	H	JTV-REK	3125

China

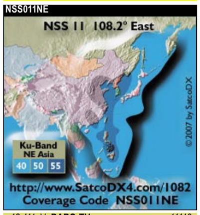
NSS 11
108.2 East

NSS011CH



	Freq GHz	Pol	Channel Name	Symbol rate
	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
●	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
	12.531	V	[illegible]	26667
	12.611	V	[illegible]	26667
	12.611	V	[illegible]	26667
	12.611	V	[illegible]	26667
	12.611	V	[illegible]	26667
	12.611	V	[illegible]	26667
	12.611	V	[illegible]	26667
	12.611	V	[illegible]	26667
	12.611	V	[illegible]	26667
	12.689	V	[illegible]	26667
	12.689	V	[illegible]	26667
	12.689	V	[illegible]	26667
	12.689	V	[illegible]	26667
	12.689	V	[illegible]	26667
●	12.689	V	[illegible]	26667
	12.689	V	[illegible]	26667
	12.689	V	[illegible]	26667
	12.689	V	[illegible]	26667
	12.689	V	[illegible]	26667

NSS011NE

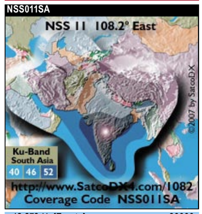


	Freq GHz	Pol	Channel Name	Symbol rate
	12.411	V	BARO-TV	11110
	12.411	V	JBS	11110
●	12.411	V	LGCC	11110
	12.411	V	ZAMJARI 1	11110
	12.411	V	ZAMJARI 2	11110

India

NSS 11
108.3 East

NSS011SA



	Freq GHz	Pol	Channel Name	Symbol rate
	12.273	H	{Empty}	30000
	12.329	H	ASHIRWAD	5000

BSAT 1A,2A
110.0 East

	Freq GHz	Pol	Channel Name	Symbol rate
	11.727	R	BS Asahi (Ch 151)	
	11.727	R	BS Asahi (Ch 152)	
	11.727	R	BS Asahi (Ch 153)	
	11.727	R	BS-i	
	11.766	R	Wowow	
	11.766	R	Wowow 2	
	11.766	R	BS Japan	
	11.766	R	St.Giga	
	11.766	R	BSJ Radio	
	11.958	R	BS Fuji	
	11.958	R	BS Nippon	
	11.958	R	BS NTV Radio 2	
	11.958	R	BSQR 489	
	11.958	R	Healing Station	
	11.958	R	LFX 488	
	11.996	R	BS Asahi	
	11.996	R	Star Channel	
	11.996	R	NHK BS-1	
	11.996	R	NHK BS-2	
	11.996	R	B & M 318	
	11.996	R	Blooming 316	
	11.996	R	JFN Satellite Radio	
	11.996	R	Opera My Seat	
	11.996	R	World Tour Station	

N-SAT 110
110.1 East

JCS110KB

	Freq GHz	Pol	Channel Name	Symbol rate
	12.291	R	Plat One Promo	
	12.291	R	60s/70s Rock & Pops	
	12.291	R	80s/90s Rock & Pops	
	12.291	R	Beatles	
	12.291	R	Borderless	
	12.291	R	C&W	
	12.291	R	Cafés Sound	
	12.291	R	Fusion	
	12.291	R	Healing	
	12.291	R	J-Pop Classic	
	12.291	R	J-Pop Hits	
	12.291	R	Kids	
	12.291	R	Latin	
	12.291	R	Nippon Song	
	12.291	R	R&B Soul	
	12.291	R	Right Classic	
	12.291	R	Rock & Pops Best Hit	
	12.291	R	Soundteria	
	12.291	R	Soundtrack	
	12.291	R	Strings	
	12.291	R	Swing	
	12.331	R	Cartoon Network Japa	
	12.331	R	Fighting TV Samurai!	
	12.331	R	Fox Channel	
	12.331	R	Space Shower TV	
	12.331	R	Sky Perfect TV Promo	
	12.371	R	AXN Japan	
	12.371	R	Channel Neco	
	12.371	R	Cinefil Imagica	
	12.371	R	Eisei Gekijo	
	12.371	R	Nihon Eiga	
	12.371	R	Super Channel	
	12.371	R	Toei Channel	
	12.411	R	EP 56	
	12.411	R	EP Promo	
	12.451	R	BBTV	
	12.451	R	Belmeson TV	
	12.451	R	Wowow PPV1	
	12.451	R	Wowow PPV2	
	12.451	R	Wowow PPV3	
	12.451	R	Wowow PPV4	
	12.491	R	Asahi NewStar	
	12.491	R	BBC World	
	12.491	R	CNN International As	
	12.491	R	Comin' Soon TV	
	12.491	R	FavoriTV	
	12.491	R	MTV Japan	
	12.491	R	The Golf Channel	
	12.531	R	J Sky Sports 1	
	12.531	R	J Sky Sports 2	
	12.531	R	J Sky Sports 3	
	12.531	R	Sky A	
	12.531	R	Sports-i ESPN	
	12.531	R	Active! Sports Chann	
	12.551	L	U-One TV	29915
	12.551	L	SCC Promo	29915
	12.571	R	AT-X	
	12.571	R	CSN 1 Movie Channel	
	12.571	R	Takarazuka Sky Stage	
	12.571	R	The History Channel	
	12.571	R	Takarazuka Sky Stage	
	12.611	R	Golf Network	
	12.611	R	LaLa TV	
	12.611	R	Nikkei CNBC	
	12.611	R	Shop Channel	
	12.651	R	Animal Planet Japan	
	12.651	R	Animax	
	12.651	R	Discovery Channel Ja	
	12.651	R	Fuji TV 721	
	12.651	R	Fuji TV 739	
	12.691	R	Family Gekijyo	
	12.691	R	Kids Station	
	12.691	R	TBS Channel	
	12.691	R	Viewsic	
	12.691	R	C-TBS Welcome Chan	
	12.691	R	QVC Japan	
	12.730	R	Bloomberg TV Japan	
	12.730	R	Data College	
	12.730	R	DPSTV	
	12.730	R	G + Sport&News	
	12.730	R	Music Japan TV	
	12.730	R	NNN 24	
	12.730	R	Science Channel	

C-Band: SINOSAT 1
110.5 East

	Freq GHz	Pol	Channel Name	Symbol rate
	3.824	V	Human university	2100
	4.067	V	GW L11R31	5990
	4.067	V	GW L13R14	5990
	4.067	V	GW L15R16	5990
	4.067	V	GW L17R18	5990
	4.067	V	GW L19R20	5990
	4.067	V	GW L21R22	5990
	4.067	V	GW L23R24	5990
	4.067	V	GW L25R26	5990
	4.067	V	GW L27R28	5990
	4.067	V	GW L29R30	5990
	4.067	V	K15 stero	5990

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SatcoDX Global Satellite Chart 02/2009

Freq GHz	Pol	Channel Name	Symbol rate
4.067	V	Lzh5 Rzh6	5990
4.067	V	Lzh8 Rdjy	5990
4.067	V	SW1 stero	5990
4.067	V	SW2 stero	5990
4.067	V	ZH1 stero	5990
4.067	V	ZH2 stero	5990
4.067	V	ZH3 stero	5990
4.067	V	ZH7 stero	5990
4.067	V	zh7-2 Stereo	5990
C-Band: PALAPA C2			
112.9 East			
3.765	H	TVRI JKT	5555
3.774	H	rcti	6520
3.774	H	rcti2	6520
3.774	H	Trijaya Network	6520
3.926	H	Service 1	4208
3.934	H	PT SCTV IDJKT	6620
● 3.936	V	rcti	3000
● 3.936	V	rcti2	3000
● 3.936	V	Trijaya Network	3000
● 4.000	H	PT SCTV IDJKT	6620
● 4.000	H	rcti	6620
● 4.000	H	rcti2	6620
● 4.000	H	Trijaya Network	6620
4.053	V	ANTEVE	6510
● 4.055	H	ASIALINK	5640
4.056	V	ANTEVE	6510
● 4.074	V	PT SCTV IDJKT	6500
● 4.074	V	rcti	6500
● 4.074	V	rcti2	6500
● 4.074	V	Trijaya Network	6500
4.080	H	CH10	28125
4.080	H	CH11	28125
4.080	H	CH3	28125
4.080	H	CH6	28125
4.080	H	CH7	28125
● 4.080	H	Global TV	28125
4.080	H	Global TV2	28125
4.080	H	MetroTV	28125
4.080	H	Spacetoon	28125
4.080	H	68H	28125
4.080	H	Antero	28125
4.080	H	BBC	28125
4.080	H	Delta FM1	28125
4.080	H	Delta2 FM	28125
4.080	H	POP FM	28125
4.080	H	Pro2 FM	28125
● 4.185	V	TPI TV Makin Asyik	6700
4.185	V	R.Dangdut TPI	6700
● 3.926	V	rcti	4208
● 3.926	V	rcti2	4208
● 3.926	V	Service 1	4208
● 3.926	V	Trijaya Network	4208
● 3.932	H	PT SCTV IDJKT	6620
● 4.054	H	ASIALINK	5632
● 4.107	V	K-TV	3000
KOREASAT 5			
113.1 East			
12.458	H	DIGITAL SNG	3072
12.578	H	EEC SAT HUB1	5230
12.601	V	FGTV SAT	3700
12.665	H	MBC TV-LINK	3699
12.731	H	FSTV	28187
12.731	H	SANG S TV	28187
12.731	H	SkyCast 06	28187
12.731	H	SkyCast 07	28187
12.731	H	SkyCast 10	28187
12.731	H	SkyCast 11	28187
12.731	H	SkyCast 12	28187
12.731	H	SkyCast 2	28187
12.731	H	SkyCast 4	28187
12.731	H	SkyCast 08	28187
12.731	H	SkyCast 09	28187
12.731	H	SkyCast 1	28187
C-Band: CHINASAT 6B			
115.5 East			

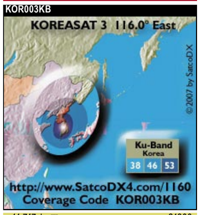
CHI06BCB

Freq GHz	Pol	Channel Name	Symbol rate
● 3.680	V	{Empty Name}	27500
3.706	H	FujianRadio1	4420
3.706	H	FujianTV1	4420
3.730	H	PhoC	10720
3.730	H	PhoI	10720
3.730	H	PhoM	10720
3.740	V	HD	27500
3.740	V	CHC	27500
3.740	V	CMC	27500
3.740	V	MOTION	27500
3.750	H	hnstv	10490
3.750	H	jykaton	10490
3.750	H	hnjj	10490
3.750	H	hnjt	10490
3.750	H	hnwy	10490
3.750	H	hnxw	10490
● 3.750	H	{Empty Name}	10490
3.771	H	CCTV E	9375
3.771	H	CCTV F	9375
3.771	H	CCTV-4	9375
3.771	H	CCTV-9	9375
3.780	V	DONGMAM1	27500
3.780	V	ENGLISH	27500
3.780	V	EXHIBITION	27500
3.780	V	FOOD	27500
3.780	V	FOOTBALL1	27500
3.780	V	PinYu	27500
3.780	V	QiPai	27500
● 3.780	V	YINGXIANGSHIJIE	27500
3.786	H	sichuan	5440
3.786	H	scgb1	5440
3.786	H	scgb2	5440
3.786	H	scgb3	5440
3.786	H	scgb4	5440
3.786	H	scgb5	5440
3.786	H	scgb6	5440
3.786	H	scgb7	5440
3.796	H	GZTV	6930
3.796	H	GZ-DSGB	6930
3.796	H	GZ-JJGB	6930
3.796	H	GZ-JTGB	6930
3.796	H	GZ-XWZHGB	6930
3.796	H	GZ-YYGB	6930
3.807	V	ChongqingTV	6000
3.807	V	Audio1	6000
3.807	V	Audio2	6000
3.807	V	Audio3	6000
3.807	V	Audio4	6000
3.807	V	Audio5	6000
3.807	V	Audio6	6000
3.808	H	OTV6	8800
3.808	H	SBN	8800
3.825	V	ZJTV	6780
3.825	V	RS232	6780
3.825	V	ZJBC1	6780
3.825	V	ZJBC2	6780
3.825	V	ZJBC3	6780
3.825	V	ZJBC4	6780
3.825	V	ZJBC5	6780
3.825	V	ZJBC6	6780
3.825	V	ZJBC7	6780
3.825	V	ZJBC8	6780
3.834	V	ShanDongTV	5400
3.834	V	SDJiaoTong	5400
3.834	V	SDJingJi	5400
3.834	V	SDRenMin	5400
3.834	V	SDShengHuo	5400
3.834	V	SDWenYi	5400
3.834	V	SDXiangCun	5400
3.840	H	CCTV-1	27500
3.840	H	CCTV-10	27500

Freq GHz	Pol	Channel Name	Symbol rate
3.840	H	CCTV-11	27500
3.840	H	CCTV-12	27500
3.840	H	CCTV-2	27500
3.840	H	CCTV-7	27500
3.840	H	CCTV-MUSIC	27500
3.840	H	Skystream data	27500
● 3.846	V	SHANXI SAT TV	5950
● 3.846	V	SHANXI TV	5950
3.854	V	Henan TV	4420
3.854	V	HN Radio1	4420
3.854	V	HN Radio2	4420
3.854	V	HN Radio4	4420
3.854	V	HN Radio5	4420
3.861	V	Ningxia TV	4800
3.861	V	Ningxia Radio	4800
3.871	V	NLTV	9080
3.871	V	SXTVS	9080
3.871	V	SX-DuShi-BC	9080
3.871	V	SX-JiaoTong-BC	9080
3.871	V	SX-JingJi-BC	9080
3.871	V	SX-NC/GS-BC	9080
3.871	V	SX-ShaoEr-BC	9080
3.871	V	SX-XinWen-BC	9080
3.871	V	SX-XiQu-BC	9080
3.871	V	SX-YinYue-BC	9080
3.880	H	CCTV-3	27500
3.880	H	CCTV-5	27500
3.880	H	CCTV-6	27500
3.880	H	CCTV-8	27500
3.880	H	CCTV-新闻	27500
3.880	H	CCTV-少儿	27500
3.885	V	SDETV	4340
3.892	V	JXTV1	4420
3.892	V	JXTV2	4420
3.892	V	JXTV3	4420
3.892	V	JXTV4	4420
3.900	V	JSTV	6670
3.900	V	Audio01	6670
3.900	V	Audio02	6670
3.900	V	Audio03	6670
3.900	V	Audio04	6670
3.900	V	Audio05	6670
3.900	V	Audio06	6670
3.900	V	Audio07	6670
3.900	V	Audio08	6670
3.900	V	Audio09	6670
3.900	V	Audio10	6670
3.910	V	GSTV	6400
3.910	V	GSBC1	6400
3.910	V	GSBC2	6400
3.910	V	GSBC3	6400
3.910	V	RS232	6400
● 3.920	H	first_service	4420
3.929	V	Ahtv Service	8835
3.929	V	Ahradio Service	8835
3.940	V	Tianjin TV	5950
3.940	V	TJBINHAI	5950
3.940	V	TJQUXIAN	5950
3.940	V	TJWENYI	5950
3.940	V	TJXINWEN	5950
3.940	V	TJZONGHE	5950
● 3.950	H	Guangdong 1	11400
● 3.950	H	GXTV	11400
● 3.950	H	SZTV	11400
3.951	V	BEIJING KAKU	9525
3.951	V	BEIJING TV	9525
3.980	V	城市建设	27500
3.980	V	东方物流	27500
3.980	V	发现之旅	27500
3.980	V	环球奇观	27500
3.980	V	老故事	27500
3.980	V	女性时尚	27500
3.980	V	书画	27500
3.980	V	现代女性	27500
3.980	V	中视购物	27500
3.980	V	中小学同步辅导	27500
4.000	H	CETV1	27500
4.020	V	百姓健康	27500
4.020	V	财富天下	27500
4.020	V	彩民在线	27500
4.020	V	高尔夫	27500
4.020	V	快乐购物	27500
4.020	V	老年福	27500
4.020	V	摄影频道	27500
4.020	V	英语辅导	27500
4.020	V	早期教育	27500
4.040	H	东方财经	27500
4.040	H	东方健康	27500
4.040	H	动漫秀场	27500
4.040	H	劲爆体育	27500
4.040	H	全纪实	27500
4.040	H	幸福彩	27500
4.040	H	游戏风云	27500
4.040	H	Ó×¶ù½ÌÓý	27500
4.040	H	爱乐频率	27500
4.060	V	第一剧场	27500
4.060	V	风云剧场	27500
4.060	V	风云音乐	27500
4.060	V	风云足球	27500
4.060	V	高尔夫网球	27500
4.060	V	国防军事	27500
4.060	V	怀旧剧场	27500
4.060	V	世界地理	27500
4.060	V	央视精品	27500
4.060	V	电视指南	27500
4.080	H	都市剧场	27500
4.080	H	法治天地	27500
4.080	H	欢笑剧场	27500
4.080	H	极速汽车	27500
4.080	H	金色频道	27500
4.080	H	七彩戏剧	27500
4.080	H	生活时尚	27500
4.080	H	说文解字	27500
4.080	H	魅力音乐	27500
4.100	V	CCTV-HD	27500
4.110	H	东方卫视海外版	13300
4.110	H	美食天府	13300
4.110	H	玩具益智	13300
4.110	H	文物宝库	13300
4.110	H	武术世界	13300
4.140	V	DV生活	27500
4.140	V	梨园	27500
4.140	V	留学世界	27500
4.140	V	汽摩	27500
4.140	V	青年学苑	27500
4.140	V	天元围棋	27500
4.140	V	先锋纪录	27500
4.140	V	游戏竞技	27500
4.140	V	孕育指南	27500
4.140	V	靓妆	27500
4.147	H	HubeiTV	6150
4.147	H	hubei1	6150
4.147	H	hubei2	6150
4.147	H	hubei3	6150
4.147	H	hubei4	6150
4.147	H	hubei5	6150
4.147	H	hubei6	6150
4.147	H	hubei7	6150
4.147	H	hubei8	6150
4.147	H	hubei9	6150
4.158	H	CHINIC 10K101	8680
4.158	H	DVT	8680
4.158	H	EncoMux1	8680
4.158	H	EncoMux2	8680
4.171	H	NMTV-H	9200
4.171	H	NMTV-M	9200
4.175	V	GW L11R31	5990
4.175	V	GW L13R14	5990
4.175	V	GW L15R16	5990
4.175	V	GW L17R18	5990
4.175	V	GW L19R20	5990
4.175	V	GW L21R22	5990
4.175	V	GW L23R24	5990
4.175	V	GW L25R26	5990
4.175	V	GW L27R28	5990
4.175	V	GW L29R30	5990
4.175	V	K15 stero	5990
4.175	V	Lzh5 Rzh6	5990
4.175	V	Lzh8 Rdjy	5990
4.175	V	SW1 stero	5990
4.175	V	SW2 stero	5990
4.175	V	ZH1 stero	5990
4.175	V	ZH2 stero	5990
4.175	V	ZH3 stero	5990
4.175	V	ZH7 stero	5990

Freq GHz	Pol	Channel Name	Symbol rate
4.175	V	zh7-2 Stereo	5990
4.192	V	Hebei TV	6000
4.192	V	Hebei Radio1	6000
4.192	V	Hebei Radio2	6000
4.192	V	Hebei Radio3	6000
4.192	V	HebeiRadio4	6000
4.192	V	HebeiRadio5	6000
KOREASAT 3			
116.0 East			

KOR003KB



Freq GHz	Pol	Channel Name	Symbol rate
11.747	L	□□	21300
11.747	L	□□	21300
11.747	L	□□□	21300
11.747	L	□	21300
11.785	L	□□	21300
● 11.785	L	□	21300
11.785	L	□	21300
11.785	L	□□□	21300
11.785	L	□□	21300
11.785	L	□□□□	21300
11.785	L	□□	21300
11.785	L	□□	21300
11.862	H	□□	21300
11.862	H	□□□	21300
11.862	H		21300
11.862	H	□□□	21300
11.862	H	□□	21300
11.862	H	□	21300
11.862	H	□□□□	21300
11.862	H	□□	21300
12.330	H	□□□	27489
12.330	H	□□□□□□□□□	27489
12.330	H	□□□	27489
12.330	H	□□□	27489
12.330	H	□	27489
12.330	H	□□□	27489
12.330	H	□	27489
12.330	H	□	27489
12.410	H	□□	27489
12.410	H		27489
12.410	H	□□	27489
12.410	H	□	27489
12.410	H	□□	27489
12.410	H	□	27489
12.410	H	□□	27489
12.450	H	□	27489
12.450	H	□□	27489
12.450	H	□	27489
12.450	H	□	27489
12.450	H	□□□□	27489
12.730	H	□□	27490
12.730	H	□	27489
12.730	H	□□□	27490
12.730	H	□	27489
12.730	H	□	27490
12.730	H	□	27489
12.730	H	□□□	27490
12.730	H	□□□□	27490
12.730	H	□	27490
● 11.747	L	□□	21300
● 11.747	L	□□	21300
● 11.747	L	□□□	21300
● 11.747	L	□	21300
● 11.823	H	□□	21300
● 11.823	H	□	21300
● 11.823	H	□□	21300
● 11.823	H	□□	21300
● 11.823	H	□□	21300
THAICOM 1A			
120.0 East			

THA01ACR

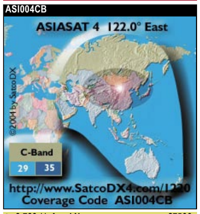
Freq GHz	Pol	Channel Name	Symbol rate
3.758	V	Laos TV	3033
3.758	V	Radio Laos	3033
3.855	V	CTN 1	5926
3.855	V	CTN 2	5926
3.886	V	Thai Society Channel	3000
3.916	V	BAYON/TKM, 2 Audio	3359
12.602	H	Test card	29000
ASIASAT 4			
122.0 East			

ASI004KE

Freq GHz	Pol	Channel Name	Symbol rate
11.727	R	Happy Together	24440
11.727	R	Playboy	24440
11.727	R	ANIMAX	24440
11.727	R	AXN	24440
11.727	R	BBC	24440
11.727	R	Bloomberg	24440
11.727	R	CCTV-4	24440
11.727	R	CCTV-9	24440
11.727	R	ETTV Asia	24440
11.727	R	Phoenix Info	24440
11.804	R	Southern TV	24440
11.804	R	Asia Plus	24440
11.804	R	Hallmark	24440
11.804	R	National Geographic	24440
11.804	R	Phoenix Chinese	24440
11.804	R	Shanghai Dragon TV	24440
11.804	R	TVB-8	24440
11.804	R	TVB-Xinghe	24440
11.804	R	TVBS-News	24440
11.804	R	Xing Kong	24440
11.881	R	Hu Nan	24440
11.881	R	Macau Sat. Asia TV	24440
11.881	R	[V] Mandarin	24440
11.881	R	A1	24440
11.881	R	Beijing TV	24440
11.881	R	CCTV-11	24440
11.881	R	Guangdong	24440
11.881	R	MTV China	24440
11.881	R	TVBS Asia	24440
11.881	R	Zhujiang TV	24440
11.958	R	Channel News Asia	24440
11.958	R	ETTV Movie	24440
11.958	R	Fashion TV	24440
11.958	R	Football Channel	24440
11.958	R	NHK Premium	24440

Freq GHz	Pol	Channel Name	Symbol rate
11.958	R	Skywave Info	24440
11.958	R	Sport Channel	24440
11.958	R	Goal 2	24440
11.958	R	Test	24440
● 11.727	R	Happy Together	24437
● 11.727	R	Playboy	24437
● 11.727	R	ANIMAX	24437
● 11.727	R	AXN	24437
● 11.727	R	BBC	24437
● 11.727	R	Bloomberg	24437
● 11.727	R	CCTV-4	24437
● 11.727	R	CCTV-9	24437
● 11.727	R	ETTV Asia	24437
● 11.727	R	Phoenix Info	24437
C-Band: ASIASAT 4			
122.1 East			

ASI004CB



Freq GHz	Pol	Channel Name	Symbol rate
● 3.760	H	Azad News	27500
● 3.760	H	MH-1 Shraddha	27500
● 3.760	H	Zee 24 Taas	27500
● 3.760	H	Zee Cinema	27500
● 3.760	H	Zee Talkies	27500
● 3.760	H	Zee Telgu	27500
● 3.760	H	Chutti TV	27500
● 3.760	H	DD Sports	27500
● 3.760	H	GOD TV	27500
● 3.760	H	Isai Uravi	27500
● 3.760	H	Kolkata Tv	27500
● 3.760	H	Sahara Mumbai	27500
● 3.760	H	Shalom Tv	27500
● 3.760	H	Surya TV	27500
● 3.760	H	VOI	27500
● 3.820	V	24 Ghanta	27500
● 3.820	V	9X ENT	27500
● 3.820	V	Discovery	27500
● 3.820	V	NDTV Imagine	27500
● 3.820	V	Play Tv	27500
● 3.820	V	Pogo	27500
● 3.820	V	Star One	27500
● 3.820	V	Zee Business	27500
● 3.820	V	Zee News	27500
● 3.820	V	Zee TV	27500
● 3.820	V	Jeevan Tv	27500
● 3.820	V	Mahuaa	27500
● 3.820	V	Nepal-1	27500
● 3.820	V	S 1 Television	27500
● 3.820	V	Sahara National	27500
● 3.820	V	Sahara UP	27500
● 3.820	V	TV-5 Monde	27500
3.857	H	BeiFen	2170
3.857	H	HN JJ	2170
3.857	H	HN JT	2170
3.857	H	HN LY	2170
3.857	H	HN NC	2170
3.857	H	HN XQ	2170
3.857	H	HN XW	2170
3.857	H	HN YSWZ	2170
3.857	H	HN YY	2170
3.857	H	MY Radio	2170
● 3.880	H	Animal Planet	27500
● 3.880	H	CNN	27500
● 3.880	H	CNN IBN	27500
● 3.880	H	E 24	27500
● 3.880	H	Star Cricket	27500
● 3.880	H	Vissa TV	27500
● 3.880	H	Zee Bangla	27500
● 3.880	H	Zee Cafe	27500
● 3.880	H	Zee Trendz	27500
● 3.880	H	Aakash Bangla	27500
● 3.880	H	Ashirwad TV	27500
● 3.880	H	BTV World	27500
● 3.880	H	IBN Lokmat	27500
● 3.880	H	Manorama Cochin	27500
● 3.880	H	News Time	27500
● 3.880	H	Subhvartha TV	27500
● 3.920	H	9X News	27500
● 3.920	H	HBO	27500
● 3.920	H	NDTV Showbiz	27500
● 3.920	H	Zee Action	27500
● 3.920	H	Zee Classic	27500
● 3.920	H	Zee Marathi	27500
● 3.920	H	Zee Next	27500
● 3.920	H	Zee Premier	27500
● 3.920	H	Zee Punjabi	27500
● 3.920	H	Zee Studio	27500
● 3.920	H	Makkal TV	27500
● 3.920	H	NETV	27500
● 3.920	H	TV-9 Kannada	27500
● 3.920	H	Udaya-2	27500
● 3.920	H	Zee Music	27500
● 3.960	H	Cartoon Network	27500
● 3.960	H	ETC Punjabi	27500
● 3.960	H	Jaya TV	27500
● 3.960	H	PIX	27500
● 3.960	H	Star Sports	27500
● 3.960	H	Zee Gujarati	27500
● 3.960	H	Zee Kannada	27500
● 3.960	H	Zee Sports	27500
● 3.960	H	Channel News Asia In	27500
● 3.960	H	Jaya Max	27500
● 3.960	H	PTC Punjabi	27500
● 3.960	H	Tara Musix	27500
● 3.960	H	Time TV	27500
● 3.960	H	TV 5 Asia	27500
● 3.960	H	TV-9 Telgu	27500
● 3.960	H	Yo Music	27500
● 4.180	V	Asianet Plus	27500
● 4.180	V	CNEB	27500
● 4.180	V	ETV Urdu	27500
● 4.180	V	FTV	27500
● 4.180	V	India TV	27500
● 4.180	V	Jaya Plus	27500
● 4.180	V	Kiran TV	27500
● 4.180	V	Live India	27500
● 4.180	V	MH-1 News	27500
● 4.180	V	News 24	27500
● 4.180	V	Sadhana	27500
● 4.180	V	Sanskar	27500
● 4.180	V	Siti Care	27500
● 4.180	V	SS Music	27500
● 4.180	V	Zee Jagaran	27500
● 4.180	V	Air Gujarati	27500
● 4.180	V	Air Punjabi	27500
● 4.180	V	FM Gold	27500
● 4.180	V	FM RainBow	27500
JCSAT 4A			
124.0 East			
12.283	H	Gokaku TV	21096
12.283	H	Medical Sat	21096
12.283	H	Success TV	21096
12.283	H	SVML	21096
12.403	H	Star Stream Channel	21096
12.523	H	Sky PerfecTV	21096
12.538	V	Fuji TV	21096
12.538	V	Toei Channel	21096
12.538	V	Viewsic	21096
12.538	V	Channel BB	21096
12.553	H	Health & Welfare Cha	21096
12.553	H	Manzox Channel	21096
12.553	H	Pachinko Pachislot C	21096
12.553	H	Queen Bee	21096
12.553	H	Zap TV	21096
12.568	V	Perfect Choice	21096
12.568	V	Perfect Choice Premi	21096
12.568	V	Perfect Choice	21096
12.643	H	Sky PerfecTV	21096
12.658	V	Sky Perfect Info Cha	21096
12.673	H	Sky PerfecTV	21096

Freq GHz	Pol	Channel Name	Symbol rate
12.688	V	Cinema R	21096
12.688	V	Paradise TV	21096
12.688	V	Pink Cherry Bomb	21096
12.688	V	Sakura Channel	21096
12.688	V	Yellow Cherry Bomb	21096
12.703	H	Sky PerfecTV	21096
12.718	V	Classica Japan	21096
12.718	V	Coming Soon TV	21096
12.718	V	The Mistery Channel	21096
12.718	V	Japanet Studio 242	21096
12.718	V	Reform Senmon Channe	21096
12.718	V	ViTV	21096
12.733	H	Sky PerfecTV	21096
C-Band: SINOSAT 3			
125.0 East			
3.827	H	Guangxi TV	5720
3.845	H	Guangdong	17780
3.893	H	HLJ	6880
3.909	H	Jillin	8934
3.922	H	Yunnan	7250
3.933	H	Travel TV	6590
3.989	H	Xizang	5660
4.006	H	Liaoning	4420
4.080	H	CCTV	27500
4.120	H	XinJiang	27500
4.160	H	CCTV	27500
JCSAT 3			
128.0 East			
12.268	V	Green Channel	21096
12.268	V	Kit Manzox Club	21096
12.268	V	The University of th	21096
12.268	V	TVE International	21096
12.268	V	Yozemi TV Net	21096
12.268	V	The University of th	21096
12.348	V	J Sky Sport 1	21096
12.348	V	J Sky Sport 2	21096
12.348	V	J Sky Sport 3	21096
12.348	V	Perfect Choice	21096
12.368	H	Blue Cherry Bomb	21096
12.368	H	Enjoy TV	21096
12.368	H	Flamingo	21096
12.368	H	Gaora	21096
12.368	H	Milk 906	21096
12.368	H	Music Japan TV	21096
12.408	H	Channel Ruby	21096
12.408	H	Family Gekijyo	21096
12.408	H	Perfect Choice	21096
12.408	H	Playboy Channel	21096
12.408	H	Star Channel	21096
12.408	H	Supper Channel	21096
12.428	V	Perfect Choice	21096
12.523	H	Access!	21096
12.523	H	Global Learning Chan	21096
12.523	H	Sky A	21096
12.523	H	Splash	21096
12.523	H	Travelers Channel	21096
12.523	H	Victory Channel	21096
12.538	V	Japan Leisure Channe	21096
12.538	V	JNN News Bird	21096
12.538	V	Nickelodeon Japan	21096
12.538	V	Pioneer Karaoke Chan	21096
12.538	V	Tabi Channel	21096
12.538	V	Mondo 21	21096
12.553	H	Bloomberg TV Japan	21096
12.553	H	E-Tenki Net	21096
12.553	H	MTV Japan	21096
12.553	H	Space Shower TV	21096
12.553	H	Speed Channel 1	21096
12.553	H	Speed Channel 2	21096
12.568	V	Asahi NewStar	21096
12.568	V	Cartoon Network Japa	21096
12.568	V	DK Star Karaoke	21096
12.568	V	Eco Music TV	21096
12.568	V	Igo Shogi Channel	21096
12.568	V	Rainbow Channel	21096
12.583	H	Discovery Channel Ja	21096
12.583	H	Golf Network	21096
12.583	H	Lala TV	21096
12.583	H	Movie Plus	21096
12.583	H	Shop Channel	21096
12.598	V	Fighting TV Samurai!	21096
12.598	V	Keiko to Manabu Chan	21096
12.598	V	She TV	21096
12.598	V	The Music 272	21096
12.613	H	CNN International	21096
12.613	H	Japan Leisure Ch2	21096
12.613	H	The Golf Channel	21096
12.613	H	The History Channel	21096
12.613	H	V Paradise	21096
12.613	H	QVC Japan	21096
12.628	V	Adult Contemporary	21096
12.628	V	Background Music Amu	21096
12.628	V	Background Music Fri	21096
12.628	V	Background Music Org	21096
12.628	V	Background Music Sok	21096
12.628	V	Background Music Sou	21096
12.628	V	Background Music Tre	21096
12.628	V	Blues	21096
12.628	V	CD TopHits Digest	21096
12.628	V	Chinese Pop	21096
12.628	V	Chinese Songs	21096
12.628	V	Classic Artist Speci	21096
12.628	V	Classic Artist Speci	21096
12.628	V	Classic Baroque	21096
12.628	V	Classic Chamber	21096
12.628	V	Classic Historical	21096
12.628	V	Classic New Album	21096
12.628	V	Classic Opera	21096
12.628	V	Classic Orchestral	21096
12.628	V	Club Collection	21096
12.628	V	Computer Music	21096
12.628	V	Country	21096
12.628	V	D-Navi Station	21096
12.628	V	Disco Collection	21096
12.628	V	East Japan Best Hits	21096
12.628	V	Enka Karaoke	21096
12.628	V	Eurobeat	21096
12.628	V	Folk & New Music	21096
12.628	V	Foreign Karaoke	21096
12.628	V	Group Sounds	21096
12.628	V	Hard Rock & Metal	21096
12.628	V	Hip Hop	21096
12.628	V	Inter FM Tokyo	21096
12.628	V	J-Anime & SFX Song	21096
12.628	V	J-Groove Special	21096
12.628	V	J-Idol & Voice Idol	21096
12.628	V	J-Pop	21096
12.628	V	J-Pop 19xx	21096
12.628	V	J-Pop 70's Hits	21096
12.628	V	J-Pop 70's&80's Albu	21096
12.628	V	J-Pop 80's Hits	21096
12.628	V	J-Pop 90's Album	21096
12.628	V	J-Pop 90's Hits	21096
12.628	V	J-Pop Artist Special	21096
12.628	V	J-Pop Artist Special	21096
12.628	V	J-Pop Artist Special	21096
12.628	V	J-Pop Ballads	21096
12.628	V	J-Pop Compilation	21096
12.628	V	J-Pop Dam Hits	21096
12.628	V	J-Pop Hit Album	21096
12.628	V	J-Pop Indies	21096
12.628	V	J-Pop Karaoke	21096
12.628	V	J-Pop New Album Pops	21096
12.628	V	J-Pop New Album Reco	21096
12.628	V	J-Pop New Album Rock	21096
12.628	V	J-Pop New Single	21096
12.628	V	J-Pop Single Chart	21096
12.628	V	J-Pop Single Hits	21096
12.628	V	J-Pop Special	21096
12.628	V	J-Soundtrack	21096
12.628	V	Jazz Artist Special	21096
12.628	V	Jazz Artist Special	21096
12.628	V	Jazz Contemporary	21096
12.628	V	Jazz Fusion	21096
12.628	V	Jazz Mainstream	21096
12.628	V	Jazz New Album	21096
12.628	V	Jazz Swing	21096
12.628	V	Jazz Vocal	21096
12.628	V	JBC	21096
12.628	V	Kayo 19xx	21096
12.628	V	Kayo 60's Hits	21096
12.628	V	Kayo Artist Special	21096
12.628	V	Kayo Classics	21096
12.628	V	Kayo Compilation	21096
12.628	V	Kayo Dam Hits	21096

Freq GHz	Pol	Channel Name	Symbol rate
12.628	V	Kayo Hit Chart	21096
12.628	V	Kids	21096
12.628	V	Korean Pop	21096
12.628	V	Korean Songs	21096
12.628	V	Latin	21096
12.628	V	Minyo&Talk	21096
12.628	V	Okinawa Music	21096
12.628	V	Oldies	21096
12.628	V	R&B & Soul	21096
12.628	V	Reggae	21096
12.628	V	Rock Alternative	21096
12.628	V	Rock/Pops 19xx	21096
12.628	V	Rock/Pops Artist S	21096
12.628	V	Rock/Pops Artist S	21096
12.628	V	Rock/Pops Classics 7	21096
12.628	V	Rock/Pops Classics 9	21096
12.628	V	Rock/Pops Compilatio	21096
12.628	V	Rock/Pops Gold Album	21096
12.628	V	Rock/Pops Hit Chart	21096
12.628	V	Rock/Pops New Album	21096
12.628	V	Rock/Pops New Single	21096
12.628	V	Rock/Pops Single Hit	21096
12.628	V	Shibuya FM	21096
12.628	V	West Japan Best Hits	21096
12.643	H	BBC World	21096
12.643	H	G+ Sport & News	21096
12.643	H	Kids Station	21096
12.643	H	Speed Channel 5	21096
12.643	H	Sports-i ESPN	21096
12.643	H	Better Life Channel	21096
12.643	H	Rakuten Shopping	21096
12.643	H	Rakuten Shopping Cha	21096
12.658	V	Power Plat	21096
12.658	V	Power Plats PPV	21096
12.658	V	Club Sukapa! TV	21096
12.673	H	Dento Bunka Housou	21096
12.673	H	Eisei Gekijo	21096
12.673	H	Home Drama Channel	21096
12.673	H	Power Movie Plus 1	21096
12.673	H	Power Movie Plus 2	21096
12.673	H	Power Movie Plus 4	21096
12.673	H	Power Plat	21096
12.688	V	Channel Neco	21096
12.688	V	Cinefil Imagica	21096
12.688	V	Foodies TV	21096
12.688	V	Music Air Networks	21096
12.688	V	Nikkei CNBC	21096
12.688	V	Speed Ch 4	21096
12.688	V	Theater TV	21096
12.688	V	V Theater 135	21096
12.703	H	IPC Brasil	21096
12.703	H	IPC Latin America	21096
12.703	H	Korea Now TV	21096
12.703	H	Midnight Blue	21096
12.703	H	Speed Channel 3	21096
12.703	H	Mall of TV	21096
12.703	H	Digital J-Wave	21096
12.718	V	Japan Leisure Channe	21096
12.718	V	Perfect Choice	21096
12.718	V	Power Plats PPV	21096
12.718	V	Star Channel 2	21096
12.718	V	Star Channel 3	21096
12.718	V	Toshin School D1	21096
C-Band: JCSAT 3			
128.1 East			
● 3.960	V	AZIO	30000
● 3.960	V	CTI-I	30000
● 3.960	V	ERA News	30000
● 3.960	V	MUCH TV	30000
● 3.960	V	PILI	30000
● 3.960	V	Taiwan Music	30000
● 3.960	V	Z	30000
● 3.960	V	Z2	30000
● 3.960	V	AD-HOC	30000
● 3.960	V	BLTV-I	30000
● 3.960	V	GOOD2	30000
● 3.960	V	01_US New Songs & Ch	30000
● 3.960	V	02_US Popular Songs	30000
● 3.960	V	03_Sweet Love Songs	30000
● 3.960	V	04_50&60 Popular Hit	30000
● 3.960	V	05_R&B	30000
● 3.960	V	06_HIPHOP	30000
● 3.960	V	07_Party Music	30000
● 3.960	V	08_Rock Music	30000
● 3.960	V	09_Jazz Vocal	30000
● 3.960	V	10_Jazz Main Stream	30000
● 3.960	V	11_Lounge	30000
● 3.960	V	12_Enka	30000
● 3.960	V	13_Japanese Popular	30000
● 3.960	V	14_J&T Station	30000
● 3.960	V	15_Bossa Nova	30000
● 3.960	V	16_Classical	30000
● 3.960	V	17_Piano Easy Listen	30000
● 3.960	V	18_Crystal Music	30000
● 3.960	V	19_Soft Hearing	30000
● 3.960	V	20_Season Music	30000
● 3.960	V	21_Old Deck	30000
● 3.960	V	22_Chinese Best Sell	30000
● 3.960	V	23_Chinese Soft Song	30000
● 3.960	V	24_Chinese Classical	30000
● 3.960	V	25_Children Music	30000
● 3.960	V	26_Easy Listening	30000
● 3.960	V	27_Birthday Songs	30000
● 3.960	V	28_Wedding & Goodbye	30000
● 3.960	V	29_Sweet Love Channe	30000
● 3.960	V	30_POP Music	30000
● 3.960	V	31_3375	30000
● 3.960	V	32_Napoli	30000
● 3.960	V	33_KFC	30000
● 3.960	V	34_Audrey	30000
● 3.960	V	35_KF	30000
● 3.960	V	36_Crstal & Piano Mu	30000
● 3.960	V	37_Fashion Music	30000
● 3.960	V	38_Soft Music	30000
● 3.960	V	39_KG	30000
● 3.960	V	40_Asia Radio	30000
● 4.000	V	CTINews	30000
● 4.000	V	ERA-E	30000
● 4.000	V	ETNews	30000
● 4.000	V	JET_I	30000
● 4.000	V	MEGA	30000
● 4.000	V	MTV	30000
● 4.000	V	PTV-2	30000
● 4.000	V	PTV-3	30000
● 4.000	V	STV	30000
● 4.000	V	UBN	30000
● 4.000	V	UBNNews	30000
● 4.000	V	DAAI	30000
● 4.000	V	MAC_TV	30000
● 4.000	V	Data1	30000
● 4.000	V	UFO	30000
4.120	V	GTV-27	30000
4.120	V	GTV-28	30000
4.120	V	GTV-41	30000
4.120	V	GTV-K	30000
4.120	V	SET-29	30000
4.120	V	SET-30	30000
4.120	V	SET-54	30000
4.120	V	SET-I	30000
4.120	V	FTV	30000
4.120	V	FTVN	30000
● 4.056	V	{Empty Name}	3330
South East Asia			
VINASAT 1			
132.0 East			

VIN001CB

Freq GHz	Pol	Channel Name	Symbol rate
3.414	V	VTV1	9768
3.414	V	VTV2	9768

Freq GHz	Pol	Channel Name	Symbol rate
3.414	V	VTV3	9768
3.414	V	VTV4	9768
3.414	V	VTV6	9768
C-Band: APSTAR 6			
134.0 East			

APS006CB

Freq GHz	Pol	Channel Name	Symbol rate
3.766	H	first_service	4285
3.840	H	Media Bridge	27500
3.840	H	Test	27500
3.840	H	EASTV	27500
3.904	H	TVN-1	3250
Asia			
APSTAR 6			
134.1 East			

APS005K2

Freq GHz	Pol	Channel Name	Symbol rate
12.275	V	CCTV-1	27500
12.275	V	CCTV-10	27500
12.275	V	CCTV-11	27500
12.275	V	CCTV-12	27500
12.275	V	CCTV-2	27500
12.275	V	CCTV-5	27500
12.275	V	CCTV-6	27500
12.275	V	CCTV-7	27500
12.275	V	CCTV-8	27500
12.275	V	CCTV-K	27500
12.275	V	CCTV-F	27500
12.275	V	CNR-1	27500
12.275	V	CNR-2	27500
12.275	V	CNR-3	27500
12.275	V	CNR-4	27500
12.275	V	CNR-5	27500
12.275	V	CNR-6	27500
12.275	V	CNR-7	27500
12.275	V	CRI	27500
12.302	V	GW L13R14	5992
12.302	V	GW L15R16	5990
12.302	V	GW L17R18	5990
12.302	V	GW L19R20	5990
12.302	V	GW L21R22	5992
12.302	V	GW L23R24	5992
12.302	V	GW L25R26	5992
12.302	V	GW L27R28	5992
12.302	V	GW L29R30	5992
12.302	V	GWL11R31	5990
12.302	V	K15 stero	5992
12.302	V	Lzh5 Rzh6	5990
12.302	V	Lzh8 Rdjy	5992
12.302	V	SW1 stero	5990
12.302	V	SW2 stero	5992
12.302	V	ZH1 stero	5992
12.302	V	ZH2 stero	5990
12.302	V	ZH3 stero	5990
12.302	V	ZH7 stero	5990
12.302	V	ZH7-2 stero	5990
12.355	V	CQTV	27500
12.355	V	GSTV	27500
12.355	V	GZTV	27500
12.355	V	HENTV	27500
12.355	V	HUNTV	27500
12.355	V	LIVE1	27500
12.355	V	NMTV	27500
12.355	V	QHTV	27500
12.355	V	SCTV	27500
12.355	V	SHXTV	27500
12.355	V	YNTV	27500
12.355	V	NMHR	27500
12.355	V	NMMR	27500
12.355	V	RAD_1	27500
12.355	V	RAD_2	27500
12.355	V	XJHR	27500
12.355	V	XJWR	27500
12.355	V	XZHR	27500
12.355	V	XZZR	27500
12.395	V	CETV-1	27500
12.395	V	CETV-2	27500
12.395	V	CETV-Sky	27500
12.435	V	AXN	27500
12.435	V	CIN	27500
12.435	V	CNBC	27500
12.435	V	CNN	27500
12.435	V	DIS	27500
12.435	V	ESPN	27500
12.435	V	HALL	27500
12.435	V	HBO	27500
12.435	V	NGC	27500
12.435	V	STAR1	27500
12.435	V	TEST-1	27500
12.515	V	BBC	27500
12.515	V	CELES	27500
12.515	V	CETV	27500
12.515	V	CNAI	27500
12.515	V	HOR	27500
12.515	V	NHK	27500
12.515	V	NOW	27500
12.515	V	PHOE1	27500
12.515	V	TEST-2	27500
12.515	V	TVB	27500
12.515	V	TVB8	27500
12.595	V	[V]	27500
12.595	V	BLOOM	27500
12.595	V	EUROS	27500
12.595	V	MAS	27500
12.595	V	MTV	27500
12.595	V	PHOEC	27500
12.595	V	PHOEN	27500
12.595	V	STARS	27500
12.595	V	TEST-3	27500
12.595	V	TV5	27500
12.595	V	XINGK	27500
12.675	V	CUBA	27500
12.675	V	EAST	27500
12.675	V	KBS	27500
12.675	V	SUN	27500
TELSTAR 18			
138.0 East			
12.302	V	A1	30000
12.302	V	A10	30000
12.302	V	A11	30000
12.302	V	A12	30000
12.302	V	A13	30000
12.302	V	A14	30000
12.302	V	A2	30000
12.302	V	A3	30000
12.302	V	A4	30000
12.302	V	A5	30000
12.302	V	A6	30000
12.302	V	A7	30000
12.302	V	A8	30000
12.302	V	A9	30000
12.355	V	01-CCTV-1	43000
12.355	V	02-PHOENIX INFO	43000
12.355	V	03-PHOENIX CHANNE	43000

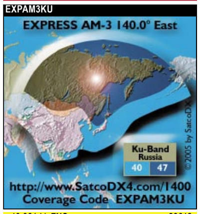
TV Digital | **Radio** Digital | **TV** Digital Crypt | **Radio** Digital Crypt | **TV** High Definition | **TV** High Definition Crypt

Freq GHz	Pol	Channel Name	Symbol rate
12.355	V	04-FASHION TV	43000
12.355	V	05-SUN TV	43000
12.355	V	06-MASTV	43000
12.355	V	07-ATV	43000
12.355	V	08-ATV	43000
12.355	V	09-TVB8	43000
12.355	V	10-TVB XINGHE	43000
12.355	V	11-TVBS	43000
12.355	V	12-TVBSG	43000
12.355	V	13-TVBSN	43000
12.355	V	14-UBNNEWS	43000
12.355	V	15-HALLLMARK CHAN	43000
12.355	V	16-ZHUJIANG	43000
12.355	V	17-CCTV-NEWS	43000
12.355	V	18-CMC	43000
12.355	V	19-CETV	43000
12.355	V	20-MTV	43000
12.355	V	21-CCTV-10	43000
12.355	V	22-LOVE TV	43000
12.355	V	23-CCTV	43000
12.355	V	24-CELESTIAL TV	43000
12.355	V	33-Channel TVBJ 3001	43000

C-Band: TELSTAR 18
138.1 East

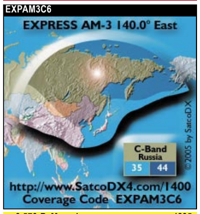
Freq GHz	Pol	Channel Name	Symbol rate
3.599	V	13 亞視本塔港台	30000
3.599	V	15 PTS DIMO 公視DIM	30000
3.599	V	16 MEGA 電影台	30000
3.599	V	17 ETTV-N 東森新聞台	30000
3.599	V	18 ETTV-Asia 東森亞州台	30000
3.599	V	19 TTV WORLD 台視國際	30000
3.599	V	20 JET日本台	30000
3.599	V	21 ETYoYo 東森幼幼美州	30000
3.599	V	22 Test1	30000
3.599	V	23 Test2	30000
3.599	V	24 Test3	30000
3.599	V	25 Test4	30000
3.599	V	14 TZUCHI 慈濟大愛	30000
3.660	V	01 AfaTV華人商業TTV台	30000
3.660	V	02 CTV 中視	30000
3.660	V	03 CTS 華視	30000
3.660	V	04 FTV 民視	30000
3.660	V	05 FTVN 民視新聞	30000
3.660	V	06 Uplink 1	30000
3.660	V	07 Uplink 2	30000
3.660	V	08 Uplink 3	30000
3.660	V	09 中視my life 亞洲旅遊	30000
3.660	V	10 SETI 三立國際	30000
3.660	V	11 CTI-I中天亞洲台	30000
3.660	V	12 HollywoodMovie好萊塢	30000
4.124	V	BBC Arabic	3255
4.124	V	BBC English (E Asi	3255
4.124	V	BBC English (S Asi	3255
4.124	V	BBC English Aus NZ	3255
4.124	V	BBC English News	3255
4.124	V	BBC Mandarin	3255
4.124	V	BBC Pac Feed 1	3255
4.124	V	BBC Pac Feed 2	3255
4.124	V	BBC Pac Feed 3	3255
4.124	V	BBC Pac Feed 4	3255

EXPRESS AM3
140.0 East
EXPAM3KU



Freq GHz	Pol	Channel Name	Symbol rate
10.981	V	FNS	29812
10.981	V	MuzTV+Love	29812
● 11.090	V	FNS	4996
● 11.090	V	MuzTV+Love	4996
11.104	V	Yakutia	5789
● 10.981	V	FNS	29800
● 10.981	V	MuzTV+Love	29800
● 11.104	V	Yakutia	5786

C-Band: EXPRESS AM3
140.1 East
EXPAM3C6



Freq GHz	Pol	Channel Name	Symbol rate
3.576	R	Magadan	4285
3.627	R	Duble2+GTRK CAXA	4340
3.633	R	AZIMUT-V	4340
3.675	R	Duble-1+RRD1	33470
3.675	R	Duble-2+RRD2	33470
3.675	R	Orbita-1R+Mayak	33470
3.675	R	Orbita-2R+Yunost	33470
3.675	R	Sport	33470
3.675	R	Kultura-1	33470
3.675	R	NTV7	33470
3.675	R	Radio Mayak	33470
3.675	R	Radio RussiaD1	33470
3.730	R	MATBEEBKA	3199

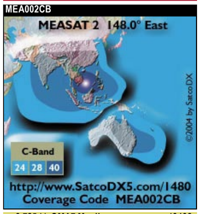
SUPERBIRD C
144.0 East

Freq GHz	Pol	Channel Name	Symbol rate
12.523	H	AMX	21096
12.523	H	AXN	21096
12.523	H	CNN International	21096
12.523	H	CTN	21096
12.523	H	EPG Channel Guide	21096
12.523	H	FAM	21096
12.523	H	FOX	21096
12.523	H	Gaora	21096
12.523	H	Golf Network	21096
12.523	H	HTR	21096
12.523	H	Music Air Networks	21096
12.523	H	SPC	21096
12.523	H	SPI	21096
12.523	H	SSW	21096
12.523	H	E11	21096
12.553	H	FIV	21096
12.553	H	FOD	21096
12.553	H	KAR	21096
12.553	H	M21	21096
12.553	H	NGC	21096
12.553	H	ST1	21096
12.553	H	ST2	21096
12.553	H	ST3	21096
12.553	H	TAB	21096
12.553	H	E71	21096
12.583	H	EPG Channel Guide	21096
12.583	H	J Sky Sports 2	21096
12.583	H	J Sky Sports 3	21096
12.583	H	Viewsic	21096
12.583	H	{Empty Name}	21096
12.613	H	BBG	21096
12.613	H	DS1	21096
12.613	H	DS2	21096
12.613	H	JNN	21096
12.613	H	KMC	21096
12.613	H	MTR	21096
12.613	H	QVC	21096
12.613	H	TBS	21096
12.613	H	VPR	21096
12.613	H	E51	21096
12.643	H	BBC	21096
12.643	H	GAO	21096
12.643	H	IGO	21096
12.643	H	JS2	21096
12.643	H	JS3	21096
12.643	H	KID	21096
12.643	H	NBC	21096
12.643	H	SHP	21096
12.643	H	VSC	21096
12.643	H	E31	21096
12.305	V	Feed	5275
12.597	V	Radio	21096
12.628	V	Test Card	21096
12.718	V	FOX Japan	21096
12.718	V	GMA International	21096
12.718	V	Thai TV Channel 3	21096
12.718	V	The Mabuhay Channel	21096
12.718	V	Dream FM 106.7	21096
12.718	V	DZBB 594 Super Rad	21096
12.718	V	PBS Sport	21096
12.683	V	Feeds (CTS)	3400
12.688	V	Da Ai	2900
12.688	V	DAAI-TV	2900
12.693	V	CTS IQ Channel	2000
12.698	V	CTS	1780

AGILA 2
146.0 East

Freq GHz	Pol	Channel Name	Symbol rate
3.645	H	Test	1171
3.671	V	Feeds	1851
3.808	V	Living Asia	3000
3.810	V	Chat TV 1	4300
3.810	V	ST_Channel	4300
3.834	H	testing	2612
3.834	H	Viva Prime	2612
3.837	V	Channel 11	2300
3.854	H	TCT WORLD	2602
3.870	H	ABC 5	3356
3.875	H	NBN PHILIPPINES	3000
3.885	H	RPN 9	3000
3.892	H	Channel 11	5425
3.892	H	Church Channel	5425
3.913	V	ACQ-KBN	2200
3.985	H	Kabayan TV	2000
3.985	H	apexcom1	2000
3.985	H	apexcom2	2000
3.985	H	apexcom3	2000
3.989	V	Ch. 1	5000
4.040	H	TELERED TEST	3009
4.092	H	IBC13	9760
4.092	H	Solar Sports	9760
4.092	H	Solar USA	9760
4.092	H	DZAS	9760
4.165	V	ACQ TV TEST BRDCS	3735
4.165	V	FAMILYLAND TV	3735
4.165	V	{Empty Name}	3735
4.165	V	TEST BRDCST	3735
4.185	V	TOP-CHNL	2169
4.188	V	UNTV-37	2170
4.190	V	NBN	3250
4.192	V	Isat Feeds	2169
12.301	H	ABC 5	25600
12.301	H	ABS-CBN 2	25600
12.301	H	e-Talk	25600
12.301	H	GMA 7	25600
12.301	H	IBC 13	25600
12.301	H	MTV Phil	25600
12.301	H	NBN 4	25600
12.301	H	RPN 9	25600
12.301	H	Studio 23	25600
12.301	H	Mabuhay Channel	25600
12.301	H	106 Dream FM	25600
12.301	H	BBC Radio	25600
12.301	H	CMN Radio	25600
12.301	H	Crossroads	25600
12.301	H	DREAM ROCK	25600
12.301	H	DWNU FM	25600
12.301	H	EDGE Radio	25600
12.301	H	I FM	25600
12.301	H	RJ 100	25600
12.301	H	RMN News AM	25600
12.501	H	Boss uplink A	30000
12.501	H	CH-A02	30000
12.501	H	CH-A03	30000
12.501	H	CH-A04	30000
12.501	H	CH-C01	30000
12.501	H	CH-C02	30000
12.501	H	CH-C03	30000
12.501	H	CH-E01	30000
12.501	H	CH-M01	30000
12.501	H	CH-M02	30000
12.501	H	CH-N01	30000
12.501	H	CH-N02	30000
12.501	H	CH-E02	30000
12.541	H	2nd Avenue	25600
12.541	H	Animal Planet	25600
12.541	H	Cinemax	25600
12.541	H	CNBC	25600
12.541	H	Deutsche Welle	25600
12.541	H	Discovery T & L	25600
12.541	H	ESPN	25600
12.541	H	ETC	25600
12.541	V	FLIP2	26000
12.541	H	HBO	25600
12.541	H	MBC Korea	25600
12.541	H	National Geographic	25600
12.541	H	Solar Sports	25600
12.541	H	Star Movies	25600
12.541	H	TCM	25600
12.541	V	AMA Channel	26000
12.541	V	Flip TV	26000
12.541	V	Jollibee TV	26000
12.541	V	Karaoke TV	26000
12.541	V	MAX TV	26000
12.541	V	MSC-SNG	26000
12.541	V	RJ TV	26000
12.541	V	Beat Box	26000
12.541	V	GV AM 792	26000
12.541	V	GV FM 99.1	26000
12.541	V	Jollibee R1	26000
12.541	V	MAGIC89.9	26000
12.541	V	RadioMaria	26000
12.541	V	RJ FM	26000
12.581	H	Animax	25600
12.581	H	Australia Network	25600
12.581	H	AXN	25600
12.581	H	BBC World	25600
12.581	H	Cartoon Network	25600
12.581	H	CNN	25600
12.581	H	Discovery	25600
12.581	H	Dream Cinema	25600
12.581	H	Hallmark	25600
12.581	H	Living Asia	25600
12.581	H	Nickelodeon	25600
12.581	H	Star Sports	25600
12.581	H	Star World	25600
12.581	H	TV Maria	25600
12.661	H	Animax	25600
12.661	H	CNN	25600
12.661	H	DCinema 1	25600
12.661	H	DCinema 2	25600
12.661	H	ESPN	25600
12.661	H	etc	25600
12.661	H	Hallmark	25600
12.661	H	MBC Korea	25600
12.661	H	Nat Geo	25600
12.661	H	Nat Geo Adventure	25600
12.661	H	Nickelodeon	25600
12.661	H	Solar Sports	25600
12.661	H	Star Sports	25600
12.661	H	Smile of a Child	25600

MEASAT 2
148.0 East
MEA002CB



Freq GHz	Pol	Channel Name	Symbol rate
3.725	V	GMA7 Manila	13432
3.725	V	International 1	13432
3.725	V	International 1 - AC	13432
3.725	V	International 2	13432
3.725	V	QTV 11	13432
4.113	V	TV NATIN	2170
4.113	V	BEAT	2170
4.113	V	DZRH	2170
4.113	V	HOT FM	2170
4.113	V	KIDS FM	2170
4.113	V	LOVE	2170
4.113	V	RN	2170
4.113	V	YES FM	2170

MEA002KM

Freq GHz	Pol	Channel Name	Symbol rate
11.537	H	AUSTRALIAN NW	35500
11.537	H	BIBI	35500
11.537	H	DISNEY	35500
11.537	H	GOALTV1	35500
11.537	H	GOALTV2	35500
11.537	H	HALLMARK	35500
11.537	H	HTV	35500
11.537	H	INFO-TV	35500
11.537	H	MTV ASIA	35500
11.537	H	THIEN ANH	35500
11.537	H	VCTV1	35500
11.537	H	VCTV2	35500
11.537	H	VCTV3	35500
11.537	H	VCTV4	35500
11.537	H	VCTV6	35500
11.537	H	VCTV7	35500
11.537	H	VTV1	35500
11.537	H	VTV2	35500
11.537	H	VTV3	35500
11.537	H	VTV4	35500
11.537	H	VTV5	35500
11.537	H	VTV6	35500
11.537	H	VOV1	35500
11.537	H	VOV3	35500
12.407	H	ASTRO SUPERSPORT	30000
12.407	H	ASTRO WAH LAI TOI	30000
12.407	H	ASTRO XPRESI	30000
12.407	H	CARTOON NTWK	30000
12.407	H	CCTV-9	30000
12.407	H	DISNEY	30000
12.407	H	GOAL TV1	30000
12.407	H	HBO	30000
12.407	H	PLAYHOUSE	30000
12.407	H	STAR WORLD	30000
12.407	H	TVB XING HE	30000
12.407	H	ZEE	30000
12.470	H	ASTRO ARUNA	30000
12.470	H	ASTRO KIRANA	30000
12.470	H	ASTRO TVIQ	30000
12.470	H	GOAL TV2	30000
12.470	H	NATIONAL GEOGRAPH	30000
12.470	H	NHK WORLD	30000
12.470	H	PHOENIX	30000
12.470	H	STAR MOVIES	30000
12.470	H	STAR SPORTS	30000
12.470	H	ALJAZEERA INTERNA	30000
12.470	H	ASTRO SHUANG XING	30000
12.470	H	DISCOVERY	30000
12.470	H	NICKELODEON	30000
12.532	H	ANIMAL PLANET	30000
12.532	H	ANIMAX	30000
12.532	H	ASTRO AWANI	30000
12.532	H	ASTRO CERIA	30000
12.532	H	ASTRO OASIS	30000
12.532	H	BLOOMBERG	30000
12.532	H	CELESTIAL MOVIES	30000
12.532	H	CHANNEL [V]	30000
12.532	H	CINEMAX	30000
12.532	H	ESPN	30000
12.532	H	INDOSIAR	30000
12.532	H	WA TV	30000
12.594	H	AXN	30000
12.594	H	BBC WORLD	30000
12.594	H	CCTV-4	30000
12.594	H	CNN	30000
12.594	H	DISCOVERY TRAVEL	30000
12.594	H	E! ENTERTAINMENT	30000
12.594	H	METRO TV	30000
12.594	H	MTV ASIA	30000
12.594	H	SCTV	30000
12.594	H	TRANS 7	30000
12.594	H	TRANS TV	30000
12.594	H	TVRI	30000

OPTUS D2
152.0 East

Freq GHz	Pol	Channel Name	Symbol rate
● 12.394	H	ALTG	22500
● 12.394	H	BOM	22500
● 12.394	H	DYES	22500
● 12.394	H	GMAL	22500
● 12.394	H	HYAT	22500
● 12.394	H	K15	22500
● 12.394	H	MAD	22500
● 12.394	H	MKTV	22500
● 12.394	H	PLAN	22500
● 12.394	H	RIKS	22500
● 12.394	H	RTCG	22500
● 12.394	H	SETS	22500
● 12.394	H	STAR	22500
● 12.394	H	NTC	22500
12.407	V	BTV2	30000
12.407	V	BTV3	30000
12.407	V	SKY1	30000
12.407	V	SKY10	30000
12.407	V	SKY2	30000
12.407	V	SKY3	30000
12.407	V	SKY4	30000
12.407	V	SKY5	30000
12.407	V	SKY6	30000
12.407	V	SKY7	30000
12.407	V	SKY8	30000
12.407	V	TUNE 152°E	30000
12.407	V	QTAB	30000
12.407	V	Retail R1	30000
12.407	V	Retail R2	30000
12.407	V	Retail R3	30000
12.407	V	Retail R4	30000
12.407	V	Retail R5	30000
12.407	V	Retail R6	30000
12.407	V	SKY Radio1	30000
12.407	V	Sport 927	30000
12.421	H	4E	22500
12.421	H	AJE	22500
12.421	H	ALSH	22500
12.421	H	BHTV	22500
12.421	H	CDF	22500
12.421	H	CHV	22500
12.421	H	DSPT	22500
12.421	H	DTV	22500
12.421	H	KAN7	22500
12.421	H	MAZZ	22500
● 12.421	H	AGPY	22500
● 12.421	H	CTV	22500
● 12.421	H	PACE	22500
12.519	V	MTV India	22500
12.519	V	NDTV	22500
12.519	V	PolSat	22500
12.519	V	SET	22500
12.519	V	SET Max	22500
12.519	V	Star Gold	22500
12.519	V	Star One	22500
12.519	V	Star Plus	22500
12.519	V	Zee TV	22500
12.519	V	Al Hayat	22500
12.519	V	aon	22500
12.519	V	SMTV	22500
● 12.546	V	IAC	22500
● 12.546	V	NAB TV	22500
● 12.546	V	nba3_Hot	22500
● 12.546	V	nba3_Thai	22500
● 12.546	V	ADHOC	22500
● 12.546	V	NHK World TV	22500
● 12.546	V	Radio MIR	22500
● 12.608	H	ALPH	22500
● 12.608	H	CEST	22500
● 12.608	H	COLM	22500
● 12.608	H	GMAP	22500
● 12.608	H	MEGA	22500
● 12.608	H	PELI	22500
● 12.608	H	RITL	22500
● 12.608	H	TEFE	22500
● 12.608	H	TNOV	22500
● 12.608	H	TVE	22500
● 12.608	H	ERT	22500
● 12.608	H	KTV	22500
● 12.608	H	SCTV	22500
● 12.608	H	BHTR	22500
● 12.608	H	DWLS	22500
● 12.608	H	DZBB	22500
● 12.608	H	FARD	22500
● 12.608	H	MRT	22500
● 12.608	H	R41	22500
● 12.608	H	R47	22500
● 12.608	H	R48	22500
● 12.608	H	R80	22500
● 12.608	H	R82	22500
● 12.608	H	RDPR	22500
● 12.608	H	ROSA	22500
● 12.644	H	ALYM	22500
● 12.644	H	ANA	22500
● 12.644	H	CIN1	22500
● 12.644	V	CMC	22500
● 12.644	H	INFY	22500
● 12.644	H	MSLT	22500
● 12.644	H	MWER	22500
● 12.644	H	NDM	22500
● 12.644	H	NEWT	22500
● 12.644	H	NNEW	22500
● 12.644	H	NVAR	22500
● 12.644	H	PARS	22500
● 12.644	V	Picture Of Croatia	22500
● 12.644	H	ROTC	22500
● 12.644	H	RTPI	22500
● 12.644	V	BVN	22500
● 12.644	V	Church TV	22500
● 12.644	V	Daystar	22500
● 12.644	V	EWTN	22500
● 12.644	V	GOD TV	22500
● 12.644	V	Inspiration	22500
● 12.644	V	JCTV	22500
● 12.644	V	Smile of a Child	22500
● 12.644	V	Trinity	22500
● 12.644	V	TRT Int	22500
● 12.644	H	ABAA	22500
● 12.644	H	AGNI	22500
● 12.644	H	COP	22500
● 12.644	H	DTRO	22500
● 12.644	H	ELEK	22500
● 12.644	H	ELQN	22500
● 12.644	H	IASA	22500
● 12.644	H	MCR	22500
● 12.644	H	PRTO	22500
● 12.644	H	R103	22500
● 12.644	H	R109	22500
● 12.644	H	SOUT	22500
● 12.644	V	Tarana	22500
● 12.644	V	Vietnamese Radio	22500
● 12.644	V	Voice of Croatia	22500
● 12.644	V	Kossuth Radio	22500
● 12.644	V	Overcomer Radio	22500
● 12.644	V	Raw FM	22500
● 12.644	V	RNW1	22500
● 12.644	V	RNW2	22500
● 12.644	V	RNW3	22500
● 12.644	V	RVI-1	22500
● 12.644	V	Tamil Radio	22500
● 12.644	V	TFM Radio	22500
● 12.644	V	TSR Turkce	22500
● 12.644	V	VOT World	22500
● 12.671	H	ALMJ	22500
● 12.671	H	ESC	22500
● 12.671	H	HEYA	22500
● 12.671	H	JSC	22500
● 12.671	H	ROTM	22500
● 12.671	H	ROTT	22500
● 12.671	H	ROTZ	22500
● 12.671	H	SAT7	22500
● 12.671	H	SHRQ	22500
● 12.671	H	SIC	22500
● 12.671	H	TASH	22500
● 12.671	H	TLBN	22500
● 12.671	H	TVS	22500
● 12.671	H	BCFM	22500
● 12.671	H	BTFM	22500
● 12.671	H	ESFM	22500
● 12.671	H	ISFM	22500
● 12.671	H	KRAL	22500
● 12.671	H	R23	22500
● 12.671	H	R24	22500
● 12.671	H	RADD	22500
● 12.671	H	SRFM	22500
● 12.671	H	TRTO	22500
● 12.671	H	TRTR	22500
● 12.671	H	2ME	22500
● 12.680	V	IAC8 PATH 2	6670
● 12.707	H	BAGH	22500
● 12.707	H	CH89	22500
● 12.707	H	CH90	22500
● 12.707	H	CH91	22500
● 12.707	H	CH92	22500
● 12.707	H	CH93	22500
● 12.707	H	CH94	22500
● 12.707	H	CH95	22500
● 12.707	H	CH96	22500
● 12.707	H	CH97	22500
● 12.707	H	CH98	22500
● 12.707	H	EUNW	22500
● 12.707	V	GTV	22500
● 12.707	V	ITVN	22500
● 12.707	V	Setanta Sports	22500
● 12.707	H	STL	22500
● 12.707	V	TV Polonia	22500
● 12.707	V	TVK 1	22500
● 12.707	V	TVK 2	22500
● 12.707	V	TVN Racing	22500
● 12.707	V	3ABN	22500
● 12.707	V	Aghapy	22500
● 12.707	V	Al Forat	22500
● 12.707	V	CGN	22500
● 12.707	V	Hope	22500
● 12.707	V	Press TV	22500
● 12.707	V	Narodni Radio	22500
● 12.707	V	Radio Polskie	22500
● 12.707	V	3ABN Radio	22500
● 12.707	V	Cronat Radio	22500
● 12.707	V	IFB	22500
● 12.707	V	RFI	22500
● 12.733	V	KTV Tamil	22500
● 12.733	V	SUN TV	22500
● 12.733	V	Abu Dhabi	22500
● 12.733	V	Deepam	22500
● 12.733	V	DMC	22500
● 12.733	V	DUNA	22500
● 12.733	V	ERT	22500
● 12.733	V	Kurdsat	22500
● 12.733	V	Oman TV	22500
● 12.733	V	Russia Today	22500
● 12.733	V	TGN	22500
● 12.733	V	TVRI	22500
● 12.733	V	Suryan FM	22500
● 12.733	V	2CR	22500
● 12.733	V	ATBC Tamil	22500
● 12.733	V	Bangkok FM94	22500
● 12.733	V	Emirates FM	22500
● 12.733	V	In Direct Romania	22500
● 12.733	V	KISS FM	22500
● 12.733	V	Net 105.8	22500
● 12.733	V	Oman Radio	22500
● 12.733	V	UCB Radio	22500
● 12.545	V	IAC	22500
● 12.545	V	NAB TV	22500
● 12.545	V	nba3_Hot	22500
● 12.545	V	nba3_Thai	22500
● 12.545	V	ADHOC	22500
● 12.545	V	NHK World TV	22500
● 12.545	V	Radio MIR	22500
● 12.581	H	ALNA	22500
● 12.581	H	ATV	22500
● 12.581	H	EURD	22500
● 12.581	H	EURS	22500
● 12.581	H	IRQY	22500
● 12.581	H	JAJM	22500
● 12.581	H	KRAL	22500
● 12.581	H	LATV	22500
● 12.581	H	NTV	22500
● 12.581	H	STV	22500
● 12.581	H	TRTI	22500
● 12.581	H	TVGL	22500
● 12.581	H	VZYN	22500
● 12.581	H	ALFM	22500
● 12.581	H	ATNA	22500
● 12.581	H	COG	22500
● 12.581	H	ERAS	22500
● 12.581	H	FERA	22500
● 12.581	H	MELO	22500
● 12.581	H	MGF	22500
● 12.581	H	MRL	22500
● 12.581	H	RA18	22500
● 12.581	H	RAUS	22500
● 12.581	H	SOHO	22500
● 12.581	H	THES	22500

JCSAT 2A
154.0 East

Freq GHz	Pol	Channel Name	Symbol rate
12.310	H	Agonsyu	3515
12.688	V	S-Net package	21096
12.700	H	AG Net	5275

OPTUS C1
156.0 East

Freq GHz	Pol	Channel Name	Symbol rate
12.305	H	ABC1	30000
12.305	H	AITV05	30000
12.305	H	SBS	30000
12.305	H	EXPO	30000
12.305	H	air	30000
12.305	H	EPG	30000
12.305	H	GamesWorld	30000
12.305	H	PDR EPG	30000
12.305	H	Star Picks	30000
12.358	H	Cartoon	27800
12.358	H	Discovery	27800
12.358	H	Fox Sports 3	27800
12.358	H	Hallmark	27800
12.358	H	History	27800
12.358	H	Movie Extra	27800
12.358	H	Movie Greats	27800
12.358	H	Nat Geo	27800
12.358	H	Nickelodeon	27800
12.358	H	Show Greats	27800
12.358	H	World Movies	27800
12.367	V	ABC1	27800
12.367	V	ACC	27800
12.367	V	Channel 7	27800
12.367	V	NITV	27800
12.367	V	SBS	27800
12.367	V	SBS News	27800
12.367	V	Setanta Sports	27800
12.367	V	TVN	27800
12.367	V	720ABCPerth	27800
12.367	V	ABC Classic	27800
12.367	V	ABC Goldflds	27800
12.367	V	ABCLocal WA	27800
12.367	V	ABCRadioNat	27800
12.367	V	SBS AM	27800
12.367	V	SBS FM	27800
12.398	H	Animal Planet	27800
12.398	H	Antenna	27800
12.398	H	Bio.	27800
12.398	H	Bloomberg	27800
12.398	H	CNN	27800
12.398	H	ESPN	27800
12.398	H	Food	27800
12.398	H	FOX News	27800
12.398	H	RAI	27800
12.398	H	Showcase	27800
12.398	H	Weather	27800
12.398	H	WEATHER ACTIVE	27800
12.398	H	Ant1 Radio	27800
12.398	H	RAI Radio	27800
12.438	H	xPush AVC SD	27800
12.438	H	bars	27800
12.438	H	FBOB	27800
12.438	H	Playhouse	27800
12.438	H	Sky News	27800
12.438	H	SKY NEWS ACTIVE	27800
12.438	H	Help	27800
12.438	H	iEPG Video Satellite	27800
12.438	H	{Empty}	27800
12.447	V	AUSA	27800
12.447	V	SPA	27800
12.447	V	SPB	27800
12.447	V	SPH	27800
12.447	V	SPM	27800
12.447	V	SPW	27800
12.478	H	Boomerang	27800
12.478	H	Fox Sports 1	27800
12.478	H	Fox Sports 2	27800
12.478	H	FOX SPORTS NEWS A	27800
12.478	H	FoxSportsNews	27800
12.478	H	FS1	27800
12.478	H	FSNA	27800
12.478	H	Main Event	27800
12.478	H	Ovation	27800
12.478	H	SATest	27800
12.478	H	Sky Business	27800
12.478	H	Sky Racing	27800
12.478	H	Spare	27800
12.478	H	SPORT SELECTOR	27800
12.478	H	SportSelector	27800
12.478	H	TVSN	27800
12.487	V	Channel 10	27800
12.487	V	Channel 9	27800
12.607	V	ACC	27800
12.607	V	FB05	27800
12.607	V	FB06	27800
12.607	V	FB07	27800
12.607	V	FB08	27800
12.607	V	FB19	27800
12.607	V	FB20	27800
12.607	V	FB21	27800
12.607	V	FB22	27800
12.607	V	FB23	27800
12.607	V	FB24	27800
12.647	V	Adults Only 1	27800
12.647	V	Adults Only 2	27800
12.647	V	CNBC	27800
12.647	V	EXPO	27800
12.647	V	FB09	27800
12.647	V	FB10	27800
12.647	V	FB11	27800
12.647	V	FB12	27800
12.647	V	FB25	27800
12.647	V	FB26	27800
12.728	V	ABC TV NT	24450
12.728	V	ABC TV Q	24450
12.728	V	ABC TV SA	24450
12.728	V	ABC TV SE	24450
12.728	V	ABC FM NT	24450
12.728	V	ABC FM Q	24450
12.728	V	ABC FM SA	24450
12.728	V	ABC FM SE	24450
12.728	V	ABC JJJ	24450
12.728	V	ABC PNN	24450
12.728	V	ABC RN NT	24450
12.728	V	ABC RN Q	24450
12.728	V	ABC RN SA	24450
12.728	V	ABC RN SE	24450
12.728	V	ABC RR AS	24450
12.728	V	ABC RR NQ	24450
12.728	V	ABC RR NT	24450
12.728	V	ABC RR Q	24450
12.728	V	ABC RR SA	24450
12.728	V	ABC RR SE	24450
12.728	V	ABC RR V	24450
12.518	H	ARENA +2	27800
12.518	H	Classics +2	27800
12.518	H	Comedy +2	27800
12.518	H	FOX8 +2	27800
12.518	H	LifeStyle +2	27800
12.518	H	Movie Two	27800
12.518	H	Showtime +2	27800
12.518	H	TV1 +2	27800
12.518	H	UKTV +2	27800
12.518	H	W2	27800
12.527	V	ABC TV WA	30000
12.527	V	GWN TV	30000
12.527	V	IMP TV	30000
12.527	V	NITV	30000
12.527	V	SBS SA	30000
12.527	V	WIN	30000
12.527	V	WLK	30000
12.527	V	2CUZ	30000
12.527	V	5PY	30000
12.527	V	8HA	30000
12.527	V	990 AM	30000
12.527	V	ABC FM WA	30000
12.527	V	ABC RN WA	30000
12.527	V	ABC RR WN	30000
12.527	V	ABC RR WS	30000
12.527	V	ARDS	30000
12.527	V	Arrow	30000
12.527	V	Caama	30000
12.527	V	GUM- ALA	30000
12.527	V	Mulba	30000
12.527	V	PAK- AM	30000
12.527	V	PAW	30000
12.527	V	RABS TONE	30000
12.527	V	SBS R SA	30000
12.527	V	SMA BUS6	30000
12.527	V	SMA BUS7	30000
12.527	V	Teab- ba	30000
12.558	H	AREN	27800
12.558	H	ARENA	27800
12.558	H	Comedy	27800
12.558	H	Disney	27800
12.558	H	FOX Classics	27800
12.558	H	FOX8	27800
12.558	H	LifeStyle	27800
12.558	H	Movie One	27800
12.558	H	Showtime	27800
12.558	H	TV1	27800
12.558	H	UKTV	27800
12.558	H	W	27800
12.567	V	AURORA	27800
12.567	V	FB01	27800
12.567	V	FB02	27800
12.567	V	FB03	27800
12.567	V	FB04	27800
12.567	V	FB13	27800
12.567	V	FB14	27800
12.567	V	FB15	27800
12.567	V	FB16	27800
12.567	V	FB17	27800
12.567	V	FB18	27800
12.598	H	BBC World	27800
12.598	H	Channel [V]	27800
12.598	H	CI	27800
12.598	H	FUEL TV	27800
12.598	H	How To	27800
12.598	H	MAX	27800
12.598	H	MTV	27800
12.598	H	SCI FI	27800
12.598	H	Sky News	27800
12.598	H	SkyN	27800
12.598	H	TCM	27800
12.598	H	Vh1	27800
12.638	H	BOX	27800
12.638	H	Box Office	27800
12.638	H	Channel [V]2	27800
12.638	H	Country Music	27800
12.638	H	Disc Health	27800
12.638	H	Disc Science	27800
12.638	H	Disc Travel	27800
12.638	H	E!	27800
12.638	H	Eurosportnews	27800
12.638	H	FTV	27800
12.638	H	NG Adventure	27800
12.638	H	Nick Jr	27800
12.638	H	AIR01	27800
12.638	H	AIR02	27800
12.638	H	AIR03	27800
12.638	H	AIR04	27800
12.638	H	AIR05	27800
12.638	H	AIR06	27800
12.638	H	AIR07	27800
12.638	H	AIR08	27800
12.638	H	AIR09	27800
12.638	H	AIR10	27800
12.638	H	AIR11	27800
12.638	H	AIR12	27800
12.638	H	AIR13	27800
12.638	H	AIR14	27800
12.638	H	AIR15	27800
12.638	H	AIR16	27800
12.638	H	AIR17	27800
12.638	H	AIR18	27800
12.638	H	AIR19	27800
12.638	H	AIR20	27800
12.638	H	AIR21	27800
12.638	H	AIR22	27800
12.638	H	AIR23	27800
12.638	H	AIR24	27800
12.638	H	AIR25	27800
12.638	H	AIR26	27800
12.638	H	AIR27	27800
12.638	H	AIR28	27800
12.638	H	AIR29	27800
12.638	H	AIR30	27800
12.688	H	ESPN HD	27800
12.688	H	HD Channel D	27800
12.688	H	Discovery HD	27800
12.688	H	HD Channel AA	27800
12.688	H	HD Channel BB	27800
12.688	H	HD push	27800
● 12.407	V	{Empty Name}	30000
12.287	V	BBC HD	27800
12.287	V	FOX Sports HD	27800
12.287	V	Nat Geo HD	27800
12.693	V	ABC1	28650
12.693	V	ABC2	28650
12.693	V	612ABC Bris	28650
12.693	V	702ABC Syd	28650
12.693	V	774ABC Melb	28650
12.693	V	891ABC Adel	28650
12.693	V	ABC Classic	28650
12.693	V	ABC Local SA	28650
12.693	V	ABC LocalVic	28650
12.693	V	ABC Nth Qld	28650
12.693	V	ABC Regnl	28650
12.693	V	ABCLocalNSW	28650
12.693	V	ABCNewsRadio	28650
12.693	V	ABCRadioNat	28650
12.693	V	ABCWest Qld	28650
12.693	V	Classic FM	28650
12.693	V	dig	28650
12.693	V	dig jazz	28650
12.693	V	Radio Nat	28650
12.693	V	triple j	28650

OPTUS D1
160.0 East

Freq GHz	Pol	Channel Name	Symbol rate
12.427	H	GWN	14289
12.427	H	WIN WA 16:9	14289
● 12.519	V	63	22500
● 12.519	V	Cartoon Network	22500
● 12.519	V	CTV 1	22500
● 12.519	V	Preview	22500
● 12.519	V	Preview	22500
● 12.519	V	SKY Movies	22500
● 12.519	V	SKY News	22500
● 12.519	V	MindGames	22500
● 12.519	V	Ad Tracks	22500
● 12.519	V	Christmas Music	22500
● 12.519	V	Classical	22500
● 12.519	V	Kids	22500
● 12.519	V	EPG Background Audio	22500
● 12.519	V	RNZ Concert	22500
● 12.519	V	RNZ National	22500
● 12.519	V	Tahu FM	22500
● 12.519	V	TS3 IEPG Data Serv	22500
● 12.637	V	DDT	5100
● 12.637	V	SC10 Ballarat	5100
● 12.637	V	SCTV Central	5100
● 12.637	V	SCTV Darwin	5100
12.637	V	Test	5100
● 12.637	V	TAIMA	5100
● 12.662	V	9MHz, PAL, 2 Audio	7200
● 12.671	V	SNV PATH-1	7200
● 12.680	V	7BCM D1/T7 Slot 6	7200
● 12.680	V	SNV PATH-1	7200
12.407	H	SBS	12600
12.407	H	SBS 2	12600
12.407	H	SBS HD	12600
12.407	H	SBS NEWS	12600
12.407	H	SBS RADIO 1	12600
12.407	H	SBS RADIO 2	12600
12.451	H	SBS	12600
12.451	H	SBS 2	12600
12.451	H	SBS HD	12600
12.451	H	SBS NEWS	12600
12.451	H	SBS RADIO 1	12600
12.451	H	SBS RADIO 2	12600
12.469	H	SBS	12600
12.469	H	SBS 2	12600
12.469	H	SBS HD	12600
12.469	H	SBS NEWS	12600
12.469	H	SBS RADIO 1	12600
12.469	H	SBS RADIO 2	12600
12.487	H	SBS	12600
12.487	H	SBS 2	12600
12.487	H	SBS HD	12600
12.487	H	SBS NEWS	12600
12.487	H	SBS RADIO 1	12600
12.487	H	SBS RADIO 2	12600
12.514	H	ABC HDTV	14294
12.514	H	ABC1	14294
12.514	H	ABC2	14294
12.514	H	ABC3	14294
12.514	H	ABC DiG Jazz	14294
12.514	H	ABC DiG Radio	14294
12.532	H	ABC HDTV	14294
12.532	H	ABC1	14294
12.532	H	ABC2	14294
12.532	H	ABC3	14294
12.532	H	ABC DiG Jazz	14294
12.532	H	ABC DiG Radio	14294
12.550	H	ABC HDTV	14294
12.550	H	ABC1	14294
12.550	H	ABC2	14294
12.550	H	ABC3	14294
12.550	H	ABC DiG Jazz	14294
12.550	H	ABC DiG Radio	14294
12.577	H	ABC HDTV	14294
12.577	H	ABC1	14294
12.577	H	ABC2	14294
12.577	H	ABC3	14294
12.577	H	ABC Dig Jazz	14294
12.577	H	ABC DiG Radio	14294
12.595	H	ABC HDTV	14294
12.595	H	ABC1	14294
12.595	H	ABC2	14294
12.595	H	ABC3	14294
12.595	H	ABC DiG Jazz	14294
12.595	H	ABC DiG Radio	14294
12.610	H	ABC HDTV	14294
12.610	H	ABC1	14294
12.610	H	ABC2	14294
12.610	H	ABC3	14294
12.610	H	ABC DiG Jazz	14294
12.610	H	ABC DiG Radio	14294
● 12.358	H	SKY Sport 2 HD	22500
● 12.358	H	SM Greats HD	22500
● 12.358	H	TV3 HD	22500
● 12.421	H	Alt TV	22500
● 12.421	H	Arts Channel	22500
● 12.421	H	CI	22500
● 12.421	H	CNBC	22500
● 12.421	H	Documentary	22500
● 12.421	H	Fashion TV	22500
● 12.421	H	Fox News	22500
● 12.421	H	Star Plus Hindi	22500
● 12.421	H	TCM	22500
12.456	H	C4	22500
12.456	H	CUE	22500
12.456	H	Parliament TV	22500
12.456	H	STRATOS	22500
12.456	H	Te Reo	22500
12.456	H	TV3	22500
12.456	H	GeorgeFM	22500
12.456	H	RNZ Concert	22500
12.456	H	RNZ National	22500
● 12.456	H	{Empty Name}	22500
● 12.537	V	Astralinks SNG	6670
● 12.546	H	CTV 2	22500
● 12.546	H	CTV 3	22500
● 12.546	H	CTV 4	22500
● 12.546	H	Food Television	22500
● 12.546	H	History Channel	22500
● 12.546	H	Living Channel	22500
● 12.546	H	Playhouse	22500
● 12.546	H	SKY Sport 1	22500
● 12.546	H	SKY Sport H/L's	22500
● 12.546	V	Astralinks SNG	6670
● 12.546	H	Blues	22500
● 12.546	H	New Supremo	22500
● 12.546	H	Real Good Life	22500
● 12.546	H	Calvary	22500
● 12.555	V	Astralinks SNG	6670
● 12.581	H	{Empty Name}	22500
● 12.608	H	Discovery	22500
● 12.608	H	E!	22500
● 12.608	H	Juice TV	22500
● 12.608	H	KTV 1	22500
● 12.608	H	Shine	22500
● 12.608	H	SKY Sport 3	22500
● 12.608	H	SM Greats	22500
● 12.608	H	the BOX	22500
● 12.608	H	50's & 60's	22500
● 12.608	H	Country	22500
● 12.608	H	House	22500
● 12.608	H	Jazz	22500
● 12.608	H	Party	22500
● 12.608	H	Rock	22500
● 12.671	H	{Empty Name}	22500
● 12.707	H	Animal Planet	22500
● 12.707	H	CNN	22500
● 12.707	H	Country Channel	22500
● 12.707	H	Disney Channel	22500
● 12.707	H	MTV	22500
● 12.707	H	Prime	22500
● 12.331	H	AUX HD	22500
● 12.331	H	SKY Movies HD	22500
● 12.331	H	SKY Sport 1 HD	22500

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C-Band: INTELSAT 8
166.0 East
INT008CH

Freq Pol GHz	Channel Name	Symbol rate
3.740 H	MTV Asia	27500
3.740 H	MTV Mandarin	27500
3.740 H	MTV Philippines	27500
3.740 H	MTVNA	27500
3.740 H	Nick Japan	27500
3.740 H	Nick NZ	27500
3.740 H	Nick SE	27500
3.740 H	MTV China	27500

INT008CV

Freq Pol GHz	Channel Name	Symbol rate
3.790 V	KBS WORLD N	6507
3.790 V	YTN N	6507
3.808 V	EMTV & Radio	5632
3.808 V	Radio Services	5632
3.815 V	ArirangTV W2	4400
3.833 V	Asia	17500
3.833 V	TVBS-M	17500
3.833 V	TVBS	17500
3.833 V	TVBSG	17500
3.833 V	TVBSN	17500
3.833 V	UTILITY	17500
3.833 V	Audio Only	17500
● 3.880 V	A copy of ANC statio	28700
● 3.880 V	A copy of TFC 1 cabl	28700
● 3.880 V	ABS CBN halalan	28700
● 3.880 V	ABS-CBN 1 cable	28700
● 3.880 V	ANC cable	28700
● 3.880 V	ANC station	28700
3.880 V	Channel 17	28700
3.880 V	channel 2	28700
● 3.880 V	Cinema 1 cable	28700
3.880 V	Cinema Global	28700
3.880 V	HERO Channel	28700
● 3.880 V	LIFESTYLE cable	28700
● 3.880 V	MYX cable	28700
3.880 V	OS Download Channel	28700
3.880 V	PinoyCentral TV	28700
3.880 V	PinoyCentral TV Kida	28700
● 3.880 V	Studio 23 cable	28700
● 3.880 V	TFC 1 cable	28700
● 3.880 V	Knowledge Channel ca	28700
3.880 V	PBB	28700
● 3.880 V	DZMM international	28700
● 3.880 V	DZMM local	28700
● 3.880 V	DWRR international	28700
● 3.880 V	DWRR local	28700
3.880 V	MOR Feed	28700
● 3.949 V	MBC 1	4613
3.960 V	CRI Radio	3428
3.808 H	EMTV & Radio	5632
3.808 H	Radio Services	5632
3.815 H	ArirangTV W2	4400
● 3.880 H	A copy of ANC statio	28700
● 3.880 H	A copy of TFC 1 cabl	28700
● 3.880 H	ABS CBN halalan	28700
● 3.880 H	ABS-CBN 1 cable	28700
● 3.880 H	ANC cable	28700
● 3.880 H	ANC station	28700
3.880 H	Channel 17	28700
3.880 H	channel 2	28700
● 3.880 H	Cinema 1 cable	28700
3.880 H	Cinema Global	28700
3.880 H	HERO Channel	28700
● 3.880 H	LIFESTYLE cable	28700
● 3.880 H	MYX cable	28700
3.880 H	OS Download Channel	28700
3.880 H	PinoyCentral TV	28700
3.880 H	PinoyCentral TV Kida	28700
● 3.880 H	Studio 23 cable	28700
● 3.880 H	TFC 1 cable	28700
● 3.880 H	Knowledge Channel ca	28700
3.880 H	PBB	28700
● 3.880 H	DZMM international	28700
● 3.880 H	DZMM local	28700
● 3.880 H	DWRR international	28700
● 3.880 H	DWRR local	28700
3.880 H	MOR Feed	28700

INTELSAT 8
166.1 East
INT008KA

Freq Pol GHz	Channel Name	Symbol rate
12.286 H	Animal Planet	28800
12.286 H	Canal Sur	28800
12.286 H	Discovery HH	28800
12.286 H	Discovery RT	28800
12.286 H	Discovery Sc	28800
12.286 H	Discovery TL	28800
12.286 H	Enews ES	28800
12.286 H	Enews Italy	28800
12.286 H	Euronews	28800
12.286 H	Latele Novela	28800
12.286 H	Leonardo World	28800
12.286 H	PGM 206	28800
12.286 H	PGM 207	28800
12.286 H	PGM 208	28800
12.286 H	PGM 213	28800
12.286 H	RAI Italia	28800
12.286 H	TV Chile	28800
12.286 H	VTV Uruguay	28800
12.286 H	Wine TV	28800
12.286 H	Satelradio	28800
12.326 H	Movie One	28800
12.326 H	E! Ent	28800
12.326 H	Movie Ex	28800
12.326 H	Movie Gr	28800
12.326 H	Movie Two	28800
12.326 H	MTV	28800
12.326 H	Nat.Geographic	28800
12.326 H	NG Adventure	28800
12.326 H	Ovation	28800
12.326 H	PGM 311	28800
12.326 H	PGM 313	28800
12.326 H	TCM	28800
12.326 H	VH1	28800
12.526 H	ANT1 Pacific	28800
12.526 H	BBC World News	28800
12.526 H	Bloomberg	28800
12.526 H	Cartoon Network	28800
12.526 H	CNNI	28800
12.526 H	ERT World	28800
12.526 H	Eurosport	28800
12.526 H	Fashion TV	28800
12.526 H	PGM 109	28800
12.526 H	PGM*114	28800
12.526 H	R.F.S. TV	28800
12.526 H	Sky Racing	28800
12.526 H	TVE	28800
12.526 H	Weatherzone	28800
12.526 H	SelecTV.	28800
12.526 H	Antenna Radio	28800
12.526 H	ERA Sport Radio	28800
12.526 H	Vce of Greece	28800
12.526 H	TCTFM	28800
12.575 H	ANC	13845
12.575 H	CINEMA1	13845
12.575 H	KC	13845
● 12.575 H	PPV	13845
12.575 H	TFC	13845
12.575 H	DA-I	13845
12.575 H	ISHTAR TV	13845
12.575 H	DWRR	13845
12.575 H	DZMM	13845
12.646 H	Al Arabiyah	28060
12.646 H	AL JAZEERA	28060
12.646 H	ART AUSTRALIA	28060
12.646 H	ART MOVIES	28060
12.646 H	Future TV	28060
12.646 H	LBC AUSTRALIA	28060
12.646 H	MBC	28060
12.646 H	Tele Lumiere	28060
12.646 H	ART GLOBAL	28060
12.646 H	ART LATINO	28060
12.646 H	Future News	28060
12.646 H	LBC AMERICA	28060
12.646 H	Leonardo World	28060
12.646 H	NBN	28060
12.646 H	NTV	28060
12.646 H	RAI NTSC	28060
12.646 H	RAI PAL Australia	28060
12.646 H	RAI PAL South Amer	28060
12.646 H	Orient Radio	28060
12.646 H	Radio 2Moro	28060
12.646 H	Radio Al Ddikr	28060
12.646 H	Radio Music	28060
12.646 H	Radio Voice of Chari	28060
12.646 H	Rai Radio Australia	28060
12.646 H	Rai Radio Service	28060
12.646 H	RI Anni 60	28060
12.686 H	CCTV 4	28125
12.686 H	Celestial	28125
12.686 H	Chong Qing TV	28125
12.686 H	Dragon TV	28125
12.686 H	Hunan	28125
12.686 H	Phoenix Chinese	28125
12.686 H	Phoenix InfoNews	28125
12.686 H	TVB K/C	28125
12.686 H	TVB8	28125
12.686 H	TVBJ	28125
12.686 H	tvbN	28125
12.686 H	TVBS - N	28125
12.686 H	TVBS Asia	28125
12.686 H	Xing He	28125
12.726 H	A1 PLUS	28060
12.726 H	BHT	28060
12.726 H	BK TV	28060
12.726 H	BN TV	28060
12.726 H	DM SAT	28060
12.726 H	NHK	28060
12.726 H	PINK EXTRA	28060
12.726 H	PINK PLUS	28060
12.726 H	VIKOM	28060
12.726 H	BETHEL TV	28060
12.726 H	ERI TV	28060
12.726 H	KTV	28060
12.726 H	Melody Arabia	28060
12.726 H	ORANGE TV	28060
12.726 H	SYRIA TV	28060
12.726 H	CRI RADIO	28060
12.726 H	ERI RADIO A	28060
12.726 H	ERI RADIO T	28060
12.726 H	Main General Program	28060
12.726 H	Voice of People	28060
12.726 H	Voice of Youth	28060
● 12.500 V	MACTV	3073

C-Band: INTELSAT 2
169.0 East

Freq Pol GHz	Channel Name	Symbol rate
● 3.958 V	SD-ENC-03	6621
● 3.901 H	Adhoc I VC2	30800
● 3.901 H	Adhoc II VC4	30800
3.901 H	Australian Broadcast	30800
3.901 H	BBC	30800
3.901 H	IQRAA	30800
3.901 H	Radio Australia ABC	30800
● 3.958 V	SD-ENC-03	6620
3.992 V	Channel 1	26470
3.992 V	Channel 2	26470
3.992 V	Channel 3	26470
3.992 V	Channel 5	26470
3.992 V	MetroMux Channel 7	26470
3.992 V	MetroMux Channel 8	26470
3.992 V	Channel 4	26470
3.992 V	Channel 6	26470
4.022 H	Hope Channel Intl	5900
4.022 H	Hope Intl Alt Lang1	5900
4.022 H	Hope Intl Alt Lang2	5900
4.022 H	Lifetalk Radio	5900
3.845 V	AL JAZEERA	4604
3.845 V	ART AUSTRALIA	4604

INTELSAT 2
169.1 East

Freq Pol GHz	Channel Name	Symbol rate
12.281 H	FTV	3700
● 12.281 V	ABC FM	27500
● 12.281 V	ABC RR	27500
12.281 V	ABC TV Northern	27500
● 12.281 V	ABC W TV , RR, RN	27500
● 12.281 V	ABC-W + RR	27500
● 12.281 V	GWN TV (WA)	27500
● 12.281 V	JJJ	27500
● 12.281 V	NAB	27500
● 12.281 V	SBS TV (WA)	27500
12.281 V	Win TV West	27500
● 12.281 V	WINWEST	27500
● 12.281 V	Italian Media	27500
● 12.281 V	ABC RN	27500
12.400 H	TVBS Newsnet	3000
12.401 V	Arirang TV	4400
12.604 V	JAXA/NASDA	5429
● 12.401 V	ArirangTV W1	4410

AMC 23
172.0 East

Freq Pol GHz	Channel Name	Symbol rate
3.779 H	Data	26404

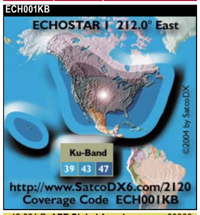
INTELSAT 701
180.0 East

Freq Pol GHz	Channel Name	Symbol rate
4.055 L	ABC Asia Pacific	16500
4.055 L	Cartoon Network (Aus	16500
4.055 L	CNN International	16500
4.055 L	Discovery Channel (N	16500
4.055 L	Fiji 1	16500
4.055 L	MTV (Southeast Asia)	16500
4.055 L	Sky Entertainment	16500
4.095 L	Sky Multiplex	16500
4.175 L	AFRTS News	3679
4.175 L	AFRTS Pacific	3679
4.175 L	AFRTS Sports	3679
11.060 V	Cinefaz	30000
11.060 V	Infosport	30000
11.060 V	LCI	30000
11.060 V	M6	30000
11.060 V	M6 Music	30000
11.060 V	Matavision	30000
11.060 V	Odyssee	30000
11.060 V	TeleToon	30000
11.060 V	TPS Star	30000
11.060 V	Tahiti Nui TV	30000
11.060 V	Europe 2	30000
11.060 V	Radio Nostalgie	30000
11.060 V	Rire et Chansons	30000
11.136 V	France O	23150
11.136 V	Malakof	23150
11.136 V	RFO feeds	23150
11.136 V	RFO Tempo Nouvelle	23150
11.136 V	RFO Tempo Polynesie	23150
11.136 V	Tele Nouvelle Caledo	23150
11.136 V	Tele Polynesie	23150
11.136 V	Tele Wallis et Futun	23150
11.514 V	Cartoon Network	30000
11.514 V	Cinestar 2	30000
11.514 V	CNN International	30000
11.514 V	Mangas	30000
11.514 V	RFO Tempo Tahiti tes	30000
11.514 V	RTL 9	30000
11.514 V	TCM	30000
11.514 V	Teva	30000
11.514 V	TF1	30000
11.514 V	TF6	30000
11.514 V	TV Polynesie tests	30000
11.514 V	RFO Tempo Polynesie	30000
11.514 V	Tele Polynesie	30000
11.514 V	SkyRock	30000
11.514 V	Radio Polynesie	30000
3.922 L	SBN - Scholar Busi	21200
3.922 L	Thai TV 5 Global Net	21200
10.975 H	Action	30000
10.975 H	Canal+ Jaune	30000
10.975 H	Cinefaz	30000
10.975 H	Cinestar 1	30000
10.975 H	Eurosport France	30000
10.975 H	Mezzo	30000
10.975 H	TF 6	30000
11.174 H	France O	23150
11.174 H	Malakof	23150
11.174 H	RFO Feeds	23150
11.174 H	RFO Tempo Nouvelle	23150
11.174 H	RFO Tempo Polynesie	23150
11.174 H	Tele Nouvelle Caledo	23150
11.174 H	Tele Polynesie	23150
11.174 H	Tele Wallis et Futun	23150
11.174 H	France Culture	23150
11.174 H	France Inter	23150
11.174 H	Le Mouv Inter	23150
11.174 H	Radio Nouvelle Caled	23150
11.174 H	Radio Polynesie	23150
11.610 H	Canal+ Caledonie	30000
11.610 H	Cartoon Network	30000
11.610 H	Cine Cinemas	30000
11.610 H	Disney Channel	30000
11.610 H	Euronews	30000
11.610 H	LCI	30000
11.610 H	LEquipe TV	30000
11.610 H	M6	30000
11.610 H	MCM	30000
11.610 H	Motors	30000
11.610 H	National Geographic	30000
11.610 H	Planete	30000
11.610 H	RFM TV	30000
11.610 H	RTL 9	30000
11.610 H	Sport+	30000
11.610 H	TCM	30000
11.610 H	Tele Caledonie	30000
11.610 H	TV5	30000
11.610 H	Voyage	30000
11.610 H	XXL	30000
11.610 H	France O	30000
11.610 H	Europe 1	30000
12.648 H	BBC World	28066
12.648 H	Discovery Channel (N	28066
12.648 H	EWTN (Asia)	28066
12.648 H	MUTV	28066
12.648 H	Nickelodeon (New Zea	28066
12.648 H	Pacific Sports Netwo	28066
12.648 H	PBS info card	28066
12.648 H	PTV 1	28066
12.648 H	SET Asia	28066
12.648 H	VH1 (Australia)	28066
12.648 H	Zee Cinema (Australi	28066
12.648 H	Zee Music (Asia)	28066
12.648 H	Zee TV (Asia Pacific	28066
12.648 H	BBC World Service	28066
12.648 H	Radio 16 NTC	28066
3.754 R	Feeds	6620
3.769 R	Church TV	20000
3.769 R	Feeds	20000
3.769 R	JCTV	20000
3.769 R	Pacific TV feeds	20000
3.769 R	Pictures of Croatia	20000
3.769 R	TBN - Trinity Broa	20000
3.793 R	TV Globo Internation	6111
3.793 L	WDC_Enc3	5632
3.803 R	NBC Solar 1	6111
3.815 R	NBA Feeds	6111
3.821 R	Feeds (DSNG 2)	6111
3.830 R	Feeds (DSNG 3)	6111
3.854 R	NASA TV	2000
3.885 R	Ch. 10 - POR9-10,	25000
3.885 R	Ch. 150 - Alhurra (M	25000
3.885 R	Ch. 170 - MTN-I	25000
3.885 R	Ch. 22 - POR13-14,	25000
3.885 R	Ch. 8 - OS Downloa	25000
3.885 R	Ch. 9 - OS Downloa	25000
3.885 R	Ch. 90 - POR25-26,	25000
3.885 R	Ch. 91 - POR29-30,	25000
3.885 R	DEFAULT	25000
3.885 R	Ch. 100 - POR25-26	25000
3.885 R	Ch. 120 - POR33-34	25000
3.885 R	Ch. 121 - POR37-38	25000
3.885 R	Ch. 130 - POR41-42	25000
3.885 R	Ch. 131 - POR45-46	25000
3.885 R	Ch. 140 - POR49-50	25000
3.885 R	Ch. 141 - POR53-54	25000
3.885 R	Ch. 151 - POR61-62	25000
3.885 R	Ch. 171 - POR77-78	25000
3.885 R	Ch. 36 - POR5-6, P	25000
3.885 R	CH. 40 - POR65-66,	25000
3.885 R	CH. 42- POR69-70,	25000
3.928 R	JCTV	11394
3.928 R	Smile of a Child	11394
3.928 R	TBN (USA)	11394
3.928 R	The Church Channel	11394
4.024 L	Prime TV	6876
4.028 R	Baccarat Game Channe	3702
4.044 R	Feed	5632

NSS 5
183.0 East (177.0 West)

Freq Pol GHz	Channel Name	Symbol rate
12.521 H	ABC NSW	14294
12.521 H	ABC2 NSW	14294
12.539 H	ABC South	14294
12.539 H	ABC2 South Australia	14294
12.556 H	ABC Northern Territo	14294
12.556 H	ABC2 Northern Territ	14294
12.574 H	ABC Queensland	14294
12.574 H	ABC2 Queensland	14294
12.604 H	ABC Victoria	14294
12.604 H	ABC2 Victoria	14294
12.612 V	AD-Hoc	28357
12.612 V	ADHOC Channel.	28357
12.612 V	B Y U	28357
12.612 V	BYU TV	28357
12.612 V	Now TV	28357
12.612 V	STAR NEWS INDIA	28357
12.612 V	TV 5 Asie	28357
12.612 V	TV5 Monde Asie	28357
12.612 V	ZEE TV	28357
12.612 V	{Empty}	28357
12.622 H	SBS South East	12600
12.622 H	SBS EPG	12600
12.622 H	SBS NSW	12600
12.622 H	SBS World News Cha	12600
12.640 H	SBS Queensland	12600
12.640 H	SBS South	12600
12.640 H	SBS EPG	12600
12.640 H	SBS Queensland	12600
12.640 H	SBS South	12600
12.640 H	SBS World News Cha	12600
12.658 H	SBS package	12600
4.185 R	BYU TV	4377
3.977 L	AFN Family	28000
3.977 L	AFN Guide	28000
3.977 L	AFN Movies	28000
3.977 L	AFN News	28000
3.977 L	AFN Prime Atlantic	28000
3.977 L	AFN Prime Korea	28000
3.977 L	AFN Prime Pacific	28000
3.977 L	AFN Spectrum	28000
3.977 L	AFN Sports	28000
3.977 L	Pentagon Channel	28000
3.977 L	Adult Rock'n'Roll	28000
3.977 L	AFN Voice Channel	28000
3.977 L	Bright AC	28000
3.977 L	Contingency Channel	28000
3.977 L	Country Music	28000
3.977 L	ESPN Plus	28000
3.977 L	Fox Sports Plus	28000
3.977 L	Hot AC	28000
3.977 L	Newsreel	28000
3.977 L	NPR Worldwide (AFR	28000
3.977 L	Oldies Radio	28000
3.977 L	The Touch	28000
3.977 L	Z-Rock	28000
3.920 R	RFO-Tempo	2893

ECHOSTAR 1, 2
212.0 East (148.0 West)
ECH001KB



Freq Pol GHz	Channel Name	Symbol rate
12.224 R	ART Global America	20000
12.224 R	ART Movies America	20000
12.224 R	Asia TV	20000
12.224 R	B4U Movies USA	20000
12.224 R	CCTV 4	20000
12.224 R	LBC America	20000
12.224 R	Phoenix Chinese Nort	20000
12.224 R	The Israeli Network	20000
12.224 R	TV 5	20000
12.224 R	Zee Gold	20000
12.224 R	Zee TV USA	20000
12.239 L	KBCB-TV	20000
12.239 L	KBTC-TV	20000
12.239 L	KGEB-TV	20000
12.239 L	KWDK-TV	20000
12.239 L	KWHB-TV	20000
12.239 L	KWOG (ShopNBC)	20000
12.239 L	Special 4	20000
12.253 R	HBO HDTV	20000
12.268 L	KAZH-TV	20000
12.268 L	KFTH-TV	20000
12.268 L	KLTJ-TV	20000
12.268 L	KNWS-TV	20000
12.268 L	KTBU-TV	20000
12.268 L	KTMD-TV	20000
12.268 L	KVDA-TV	20000
12.268 L	KWEX-TV	20000
12.268 L	KXLN-TV	20000
12.268 L	KZJL-TV	20000
12.282 R	WGVU-TV	20000
12.282 R	WLLA-TV test card	20000
12.282 R	WOOD-TV	20000
12.282 R	WOTV-TV	20000
12.282 R	WTLJ-TV	20000
12.282 R	WWMT-TV	20000
12.282 R	WXMI-TV	20000
12.282 R	WZPX-TV	20000
12.282 R	WZZM-TV	20000
12.297 L	KDTP-TV	20000
12.297 L	KINC-TV	20000
12.297 L	KPHZ-TV	20000
12.297 L	KTVW-TV	20000
12.297 L	KUVS-TV	20000
12.311 R	Antenna Satellite	20000
12.311 R	Arirang TV World 2	20000
12.311 R	ERT Sat	20000
12.311 R	Mega Cosmos	20000
12.311 R	NTV International	20000
12.311 R	NTV Plus	20000
12.311 R	International Promot	20000
12.326 L	KDTN-TV	20000
12.326 L	KFWD-TV	20000
12.326 L	KLDT-TV	20000
12.326 L	KMPX-TV	20000
12.326 L	KSTR-TV	20000
12.326 L	KUVN-TV	20000
12.326 L	KXTX-TV	20000
12.326 L	WZPX-TV	20000
12.341 R	EDTV Channel Europ	20000
12.341 R	ESC 1 USA	20000
12.341 R	Future TV USA	20000
12.341 R	Nile Drama	20000
12.341 R	PTV Prime	20000
12.341 R	Soccer	20000
12.370 R	RAI International 1&	20000
12.370 R	Rede Record Internac	20000
12.370 R	SET USA	20000
12.370 R	TV Asia	20000
12.370 R	TV Globo Internacion	20000
12.370 R	TV Japan	20000
12.399 R	KCBS-DT	20000
12.428 R	Dish 4 Showroom Prom	20000
12.428 R	Gem Shopping Network	20000
12.428 R	HD PPV	20000
12.428 R	Shop at Home	20000
12.457 R	Showtime HDTV East	20000
12.486 R	Al Jazeera	20000
12.486 R	PolSat 2 Internation	20000
12.486 R	TVN 24	20000
12.516 R	KADY-TV	20000
12.516 R	KAZA-TV	20000
12.516 R	KDOC-TV	20000
12.516 R	KFTR-TV	20000
12.516 R	KHIZ-TV	20000
12.516 R	KLCS-TV	20000
12.516 R	KOCE-TV	20000
12.516 R	KRCA-TV	20000
12.516 R	KSCI-TV	20000
12.516 R	KVCR-TV	20000
12.516 R	KVEA-TV	20000
12.545 R	Business TV	20000
12.545 R	ETC 1	20000
12.545 R	ETC 2	20000
12.545 R	Special 1	20000
12.545 R	Special 2	20000
12.545 R	Special 3	20000
12.574 R	KAZQ-TV	20000
12.574 R	KCHF-TV	20000
12.574 R	KJLA-TV	20000
12.574 R	KLUZ-TV	20000
12.574 R	KTEL-TV	20000
12.574 R	KVMD-TV	20000
12.574 R	KWHY-TV	20000
12.574 R	KXLA-TV	20000
12.603 R	KCSM-TV	20000
12.603 R	KDTV-TV	20000
12.603 R	KFSF-TV	20000
12.603 R	KMPT-TV	20000
12.603 R	KRCB-TV	20000
12.603 R	KRON-TV	20000
12.603 R	KSTS-TV	20000
12.603 R	KTEH-TV	20000
12.603 R	KTNC-TV	20000
12.603 R	KTSF-TV	20000
12.632 R	KBDI-TV	20000
12.632 R	KCEC-TV	20000
12.632 R	KDEN-TV	20000
12.632 R	KMAS-TV	20000
12.632 R	KRMT-TV	20000
12.632 R	KTVJ-TV	20000
12.632 R	KWHD-TV	20000
12.661 R	Dish-On Demand PPV	20000
12.661 R	Events PPV	20000
12.661 R	Florida Educational	20000
12.661 R	Good Samaritan Netwo	20000
12.661 R	Safety Net	20000
12.661 R	Sport PPV	20000
12.661 R	The Hot Zone	20000
12.661 R	Adult Guard Promo	20000

C-Band: AMC 8
221.0 East (139.0 West)
AMC008CB

Freq Pol GHz	Channel Name	Symbol rate
3.783 H	KTOO-TV Juneau, Al	4200
4.059 H	Gavel To Gavel Netwo	8100
4.059 H	Nasa TV	8100
4.059 H	Alaska Public Radio	8100
4.105 V	Feeds	5025
4.168 H	ARCS	4200
4.168 H	TEST 2	4200
4.168 H	True Country	4200

C-Band: AMC 7
223.0 East (137.0 West)
AMC007CB

Freq Pol GHz	Channel Name	Symbol rate
3.880 H	KAKM-TV Anchorage	25196
3.880 H	KIMO-TV Anchorage	25196
3.880 H	KTBY-TV Anchorage	25196
3.880 H	KTUU-TV Anchorage	25196
3.880 H	KTVA-TV Anchorage	25196
3.880 H	KYES-TV Anchorage	25196
4.100 V	Feed	6500

C-Band: AMC 10
225.0 East (135.0 West)
AMC010CB

Freq Pol GHz	Channel Name	Symbol rate
3.720 V	Food Network	29270
3.720 V	HGTV East	29270
3.720 V	Shop at Home TV	29270
3.740 H	Bravo US	19510
3.740 H	ESPN Classic	19510
3.740 H	HBO 2 West	19510
3.740 H	HBO Signature West	19510
3.740 H	HGTV US	19510
3.740 H	Love Stories West	19510
3.740 H	Mystery West	19510
3.740 H	Showtime Too West	19510
3.740 H	Starz! Theater West	19510
3.740 H	The History Channel	19510
3.740 H	The Movie Channel We	19510
3.740 H	Westerns West	19510
3.780 H	Galavision USA Este	29200
3.780 H	Galavision USA Oeste	29200
3.780 H	TeleFutura	29200
3.780 H	Univision Este	29200
3.783 V	The California Chann	3000
3.800 V	Black Starz! West	19510
3.800 V	Encore West	19510
3.800 V	MoviePlex East	19510
3.800 V	MoviePlex West	19510
3.800 V	Starz! Cinema West	19510
3.800 V	Starz! Family West	19510
3.800 V	Starz! Kids West	19510
3.800 V	Starz! Theater West	19510
3.800 V	Starz! West	19510
3.800 V	WAM! West	19510
3.840 V	In HD	19510
3.840 V	In HD2	19510
3.860 H	Test Card	19510
3.860 H	TV Guide	19510
3.920 V	MTV East	29270
3.920 V	VH1 East	29270
3.956 H	G4 Tech TV US	4000
3.980 H	Animal Planet	29270
3.980 H	BBC America West	29270
3.980 H	Discovery Channel We	29270
3.980 H	Discovery HD Theater	29270
3.980 H	Discovery Health	29270
3.980 H	The Learning Channel	29270
3.980 H	The Travel Channel	29270
4.020 H	Cine Latino	19510
4.020 H	CNN en Espanol	19510
4.020 H	Discovery Espanol	19510
4.020 H	Fox Sports World Esp	19510
4.020 H	HBO Latino	19510
4.020 H	HTV	19510
4.020 H	MTV Spanish	19510
4.020 H	Telemundo Internacio	19510
4.020 H	Toon Disney	19510
4.020 H	Utilisima Satelital	19510
4.020 H	VH Uno	19510
4.020 H	Fiesta Tropicana	19510
4.020 H	Latin Contemporary	19510
4.020 H	Latin Jazz	19510
4.020 H	Musica de las Americ	19510
4.020 H	Regional Mexican	19510
4.020 H	Rock en Espanol	19510
4.020 H	Salsa	19510
4.020 H	Tejano	19510
4.060 H	In Demand 10	19510
4.060 H	In Demand 11	19510
4.060 H	In Demand 12	19510
4.060 H	In Demand 13	19510
4.060 H	In Demand 14	19510
4.060 H	In Demand 7	19510
4.060 H	In Demand 8	19510
4.060 H	In Demand 9	19510
4.060 H	In Demand Barker	19510
4.067 V	C-SPAN 3	5000
4.100 H	Showtime HD East	29270
4.100 H	The Movie Channel HD	29270
4.180 H	The Weather Channel	29270

C-Band: GALAXY 15
227.0 East (133.0 West)

Freq Pol GHz	Channel Name	Symbol rate
3.740 V	Galavision USA Este	24570
3.740 V	Univision Este	24570
3.740 V	Univision Oeste	24570
3.740 V	Univision Package	24570
3.760 H	Action East	19510
3.760 H	Action West	19510
3.760 H	Encore East	19510
3.760 H	Love Stories East	19510
3.760 H	Love Stories West	19510
3.760 H	Mystery East	19510
3.760 H	Mystery West	19510
3.760 H	True Stories East	19510
3.760 H	True Stories West	19510
3.760 H	Westerns East	19510
3.760 H	Westerns West	19510
3.780 V	Do-It-Yourself Netwo	19510
3.780 V	Fine Living	19510
3.780 V	Food Network TV	19510
3.780 V	HGTV East	19510
3.780 V	HGTV West	19510
3.880 H	ESPN	29270
3.880 H	ESPN 2	29270
3.880 H	ESPN 2 Alternate	29270
3.880 H	ESPN Alternate	29270
3.960 H	Black Starz! East	19510
3.960 H	Encore East	19510
3.960 H	Encore West	19510
3.960 H	Starz! Cinema East	19510
3.960 H	Starz! Cinema West	19510
3.960 H	Starz! East	19510
3.960 H	Starz! Family East	19510
3.960 H	Starz! Kids East	19510
3.960 H	Starz! Theater East	19510
3.960 H	Starz! West	19510
3.960 H	WAM! East	19510
4.000 H	Cartoon Network East	29270
4.000 H	CNN Headline News	29270
4.000 H	CNN USA	29270
4.000 H	TBS East	29270
4.000 H	TNT East	29270
4.020 V	Boomerang	29270
4.020 V	Cartoon Network West	29270
4.020 V	CNN Airport Network	29270
4.020 V	CNN en Espanol	29270
4.020 V	CNN Headline News	29270
4.020 V	CNN Inernational	29270
4.020 V	CNN USA	29270
4.020 V	TBS Canada	29270
4.020 V	TBS West	29270
4.020 V	TCM US	29270
4.020 V	TNT West	29270
4.020 V	Turner South	29270
4.025 H	I-Life TV	4880
4.060 V	@Max East	29270
4.060 V	HBO Comedy East	29270
4.060 V	HBO Comedy West	29270
4.060 V	HBO Zone East	29270
4.060 V	HBO Zone West	29270
4.060 V	Outer Max East	29270
4.060 V	Star Max East	29270
4.060 V	ThrillerMax East	29270
4.060 V	ThrillerMax West	29270
4.060 V	WMax East	29270
4.140 V	American Life TV Net	29270
4.140 V	CSTV - College Spo	29270
4.140 V	TV One	29270
4.140 V	JCTV	29270
4.140 V	MTV Jams	29270
4.140 V	The Church Channel	29270
4.160 H	ActionMax East	29270
4.160 H	ActionMax West	29270
4.160 H	Cinemax East	29270
4.160 H	Cinemax West	29270
4.160 H	HBO 2 East	29270
4.160 H	HBO 2 West	29270
4.160 H	HBO East	29270
4.160 H	HBO Family East	29270
4.160 H	HBO Family West	29270
4.160 H	HBO Latino East	29270
4.160 H	HBO Latino West	29270
4.160 H	HBO Signature East	29270
4.160 H	HBO Signature West	29270
4.160 H	HBO West	29270
4.160 H	MoreMax East	29270
4.160 H	MoreMax West	29270
4.180 H	Americas Store	29270
4.180 H	SciFi East	29270
4.180 H	SciFi West	29270
4.180 H	Trio	29270
4.180 H	USA East	29270
4.180 H	USA West	29270

C-Band: AMC 11
229.0 East (131.0 West)
AMC011CB

Freq Pol GHz	Channel Name	Symbol rate
3.720 V	National Geographic	30000
3.720 V	Speed Channel	30000
3.720 V	Speed Channel Feeds	30000
3.720 V	Fox Feeds	30000
3.720 V	Fox Movie Channel	30000
3.720 V	Fox Sports World	30000
3.720 V	Fox Sports World Esp	30000
3.760 V	Fine Living	19510
3.760 V	Hot Choice	19510
3.760 V	In Demand 1	19510
3.760 V	In Demand 2	19510
3.760 V	In Demand 3	19510
3.760 V	In Demand 4	19510
3.760 V	In Demand 5	19510
3.760 V	In Demand 6	19510
3.760 V	Pleasure	19510
3.780 H	Lifetime Movie Netwo	29200
3.780 H	Lifetime Real Women	29200
3.780 H	Lifetime West	29200
3.800 V	Hallmark Channel US	29200
3.800 V	Hallmark Channel US	29200
3.800 V	Altitude 25	29200
3.800 V	Altitude 26	29200
3.800 V	Altitude 27	29200
3.820 H	Court TV East (VC	19510
3.820 H	Court TV West (VC	19510
3.820 H	Atlantic Satellite	19510
3.820 H	North West Cable N	19510
3.860 H	E! TV West	26470
3.860 H	GSN - Game Show Ne	26470
3.860 H	GSN - Game Show Ne	26470
3.860 H	Hallmark Channel Eas	26470
3.860 H	PBS Kids Sprout	26470
3.860 H	Style East	26470
3.860 H	Style West	26470
3.860 H	WE - Women's Enterta	26470
3.860 H	Wisdom TV	26470
3.860 H	Bloomberg TV US	26470
3.880 V	Do-It-Yourself Netwo	19510
3.880 V	Fine Living	19510
3.880 V	Food Network East	19510
3.880 V	Food Network West	19510
3.880 V	HGTV West	19510
3.913 H	America's Store	4000
3.940 H	A&E East	29270
3.940 H	A&E West	29270
3.940 H	Crime & Investigatio	29270
3.940 H	Military History Cha	29270
3.940 H	The History Channel	29270
3.940 H	The History Channel	29270
3.940 H	The History Channel	29270
3.980 H	NESN - Boston	29270
3.980 H	NESN - Feeds	29270
3.980 H	NESN - HD	29270
3.980 H	NESN - New England	29270
3.980 H	Boston Catholic TV	29270
3.980 H	Boston Catholic TV	29270
3.995 V	Viacom Package	19510
4.015 H	Showtime Package	19510
4.020 H	Discovery Espanol	29270
4.020 H	Discovery Health Cha	29270
4.020 H	Discovery Kids Ameri	29270
4.020 H	Discovery Travel and	29270
4.020 H	The Learning Channel	29270
4.060 H	CMT East	29270
4.060 H	CMT West	29270
4.060 H	The New TNN East	29270
4.060 H	TV Land East	29270
4.060 H	TV Land West	29270
4.075 V	Showtime Package	19510
4.100 H	Mun 2 East	29270
4.100 H	GAC - Great Americ	29270
4.100 H	PIN - Product Info	29270
4.100 H	Test Card	29270
4.140 H	BBC America (VC 70	19510
4.140 H	Discovery Civilizati	19510
4.140 H	Discovery Health (VC	19510
4.140 H	Discovery Home & L	19510
4.140 H	Discovery Kids (VC 6	19510
4.140 H	Discovery Wings (VC	19510
4.140 H	The Science Channel	19510
4.140 H	Discovery Espanol (V	19510
4.140 H	Fit TV (VC 616)	19510

GALAXY 27
231.0 East (129.0 West)

Freq Pol GHz	Channel Name	Symbol rate
3.974 V	Test Card	5632
11.964 H	White Springs TV	2920

ECHOSTAR 5
231.1 East (128.9 West)
ECH005KB

Freq Pol GHz	Channel Name	Symbol rate
12.224 R	DishNetwork	21500

HORIZONS 1
233.0 East (127.0 West)
HOR001KB

Freq Pol GHz	Channel Name	Symbol rate
11.720 H	Asia After Dark	26800
11.720 H	CCTV 4	26800
11.720 H	Chongqing TV	26800
11.720 H	CQTV	26800
11.720 H	CSFJ	26800
11.720 H	CSGD	26800
11.720 H	DAAI	26800
11.720 H	Fujian TV	26800
11.720 H	Guangdong TV	26800
11.720 H	HNTV	26800
11.720 H	IFTV	26800
11.720 H	Liaoning TV	26800
11.720 H	SKL1	26800
11.720 H	Pacvia TV	26800
11.720 H	PiTV	26800
11.720 H	Sky Link TV	26800
3.800 V	BBC NA MPEG	27690
3.800 V	Bethel TV	27690
3.800 V	Caribevision	27690
3.800 V	D9228 Upgrade	27690
3.800 V	Mega TV	27690
3.800 V	Shop Latino TV	27690
3.800 V	Caracol TV (Audio On	27690

C-Band: GALAXY 14
235.0 East (125.0 West)

Freq Pol GHz	Channel Name	Symbol rate
3.765 V	The Golf Channel US	3600
3.975 H	CNBC US	4400
4.120 H	Lifetime East HD	29270
4.120 H	Lifetime West HD	29270
4.120 H	Lifetime East	29270
4.120 H	Lifetime Movie	29270
4.120 H	Lifetime West	29270
4.120 H	Lifetime Women	29270
3.720 H	TBN HD	26666
3.720 H	TBN_HD_Dolby	26666
3.720 H	Enlace	26666
3.720 H	JCTV	26666
3.720 H	SOAC	26666
3.720 H	Spare	26666
3.720 H	TBN_sd	26666
3.720 H	TCC	26666
3.780 V	Golf HD	29270
3.780 V	International	29270
3.960 H	WGN HD	29270

North America
GALAXY 18
237.0 East (123.0 West)

Freq Pol GHz	Channel Name	Symbol rate
● 11.720 V	DAYSTAR-C	27692
● 11.720 V	KUKC	27692
● 11.720 V	KUOKb	27692
● 11.720 V	KUTU	27692
● 11.720 V	KWSD	27692
● 11.720 V	KWWF	27692
● 11.720 V	RTN NETWORK	27692
● 11.720 V	WBTW	27692
● 11.720 V	WMAK-DT	27692
● 11.720 V	WMQF CBAND	27692
● 11.720 V	WNGS-C	27692
● 11.720 V	WRAZ-DT	27692
● 11.720 V	WUDT	27692
● 11.720 V	WUVF C	27692
● 11.720 V	WZLE	27692
● 11.732 H	Channel Four	13240
11.732 H	Channel One	13240
11.732 H	Channel Two	13240
11.732 H	Channel Three-VBA	13240
11.798 V	DAYSTAR	26657
● 11.798 V	DAYSTAR-C	26657
● 11.798 V	KUKC	26657
● 11.798 V	KUOKb	26657
● 11.798 V	KUTU	26657
● 11.798 V	KWSD	26657
● 11.798 V	RTN NETWORK	26657
● 11.798 V	WBIF C	26657
● 11.798 V	WBTW	26657
● 11.798 V	WMAK-DT	26657
● 11.798 V	WMQF CBAND	26657
● 11.798 V	WNGS-C	26657
● 11.798 V	WRAZ-DT	26657
● 11.798 V	WUDT	26657
● 11.798 V	WUVF C	26657
● 11.798 V	WZLE	26657
11.805 H	Feeds ({Empty Name})	4580
● 11.905 V	CH 1	4352
12.078 V	KBS WORLD	3680
12.104 V	SNG	2222
12.114 V	RETROJAMS	4340
12.114 V	KBZT	4340
● 11.731 H	Channel Four	13240
11.731 H	Channel One	13240
11.731 H	Channel Two	13240
11.731 H	Channel Three-VBA	13240
● 11.855 V	3C Community	5000
● 11.855 V	3CTV	5000
● 11.855 V	Freedom	5000
● 11.855 V	TimeShift	5000
● 11.935 V	CH 1	5168
● 11.965 V	AAJ-TV HD	7234
● 11.965 V	AVT KHYBER	7234
● 11.965 V	HUM-TV HD	7234
● 11.965 V	WAQT-TV	7234
● 11.965 V	PEACE TV HD	7234
● 11.965 V	TVONE HD	7234
● 12.110 V	Service 2	3400
● 12.136 V	CEA	2666

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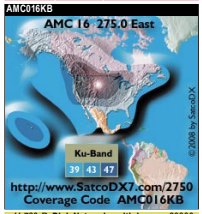
● 12.137 H EAST COAST T.V. E 6111	3.940 V Big Band 19510	4.100 H Toon Disney 29270
North America	3.940 V Boleros 19510	4.100 H C-SPAN 3 29270
C-Band: GALAXY 10R	3.940 V Brazilian Pop 19510	4.120 V ESPN PPV1 29270
237.1 East (122.9 West)	3.940 V Classic Country 19510	4.120 V ESPN PPV2 29270
3.795 V Flix West 19510	3.940 V Classic R&B 19510	4.120 V ESPN PPV3 29270
3.795 V Showtime Beyond West 19510	3.940 V Contemporary Christi 19510	4.120 V ESPN PPV4 29270
3.795 V Showtime Extreme Wes 19510	3.940 V Dance 19510	4.120 V ESPN PPV5 29270
3.795 V Showtime Showcase We 19510	3.940 V Folklorica 19510	4.120 V ESPN PPV6 29270
3.795 V Showtime Too West 19510	3.940 V International Love S 19510	4.140 H ESPN 2 HD 29270
3.795 V Showtime West 19510	3.940 V Jazz 19510	4.140 H ESPN HD 29270
3.795 V Sundance Channel Wes 19510	3.940 V Lite Classical 19510	4.140 H ESPN HD Alternate 29270
3.795 V The Movie Channel We 19510	3.940 V Metal 19510	4.160 V A&E East 29270
3.795 V The Movie Channel Xt 19510	3.940 V Showcase 2 19510	4.160 V A&E West 29270
3.812 V Showtime Family West 9760	3.940 V Soft Rock 19510	4.160 V Military History Cha 29270
3.812 V Showtime Next West 9760	3.940 V Tejano 19510	4.160 V The History Channel 29270
3.812 V Showtime Women West 9760	3.940 V Tropical 19510	4.160 V The History Channel 29270
3.837 V TVN 2 19510	3.940 V Worldbeat 19510	4.160 V The History Channel 29270
3.837 V TVN 3 19510	3.960 V TVN 33 19510	4.180 H The Outdoor Channel 29270
3.837 V TVN 4 19510	3.960 V TVN Action 19510	4.180 H JLTV 29270
3.837 V TVN 5 19510	3.960 V TVN Events Electric 19510	4.180 H The Outdoor CH Eas 29270
3.837 V TVN 6 19510	3.960 V TVN HotBody 19510	4.180 H The Outdoor CH Eas 29270
3.837 V TVN 7 19510	3.960 V TVN Passion Soft 19510	4.180 H The Outdoor CH Wes 29270
3.837 V TVN 8 19510	3.960 V TVN TeleNuestros 19510	4.180 H The Outdoor CH Wes 29270
3.837 V TVN 9 19510	3.960 V GRTV 2 19510	ECHOSTAR 9
3.840 V unknown 26470	3.960 V GRTV 3 19510	239.0 East (121.0 West)
3.880 V 70s Oldies 29270	3.960 V GRTV 4 19510	ECH009KB
3.880 V 80s Hits 29270	3.960 V 70's Oldies 19510	
3.880 V 90s Hits 29270	3.960 V 80's Hits 19510	
3.880 V Acid Jazz 29270	3.960 V 90's Hits 19510	12.016 V SuperDISH Info Car 20000
3.880 V Adult Alternative 29270	3.960 V Acid Jazz 19510	12.016 V DishNetwork Package 20000
3.880 V Adult Contemporary 29270	3.960 V Adult Alternative 19510	GALAXY 23
3.880 V Album Rock 29270	3.960 V Adult Contemporary 19510	239.1 East (120.9 West)
3.880 V Alternative Rock 29270	3.960 V Album Rock 19510	3.707 H CLEVELAND 5632
3.880 V Beautiful Instrument 29270	3.960 V Alternative Rock 19510	3.714 H Cox Sports TV 4340
3.880 V Blues 29270	3.960 V Beautiful Instrument 19510	3.719 H TVW 1 3000
3.880 V Children's 29270	3.960 V Blues 19510	3.724 H The Sportsmans Chann 3000
3.880 V Classic R&B 29270	3.960 V Cable Radio 1 19510	3.727 V MASN 6065
3.880 V Classic Rock 29270	3.960 V Cable Radio 2 Sport 19510	3.732 V In Demand 13235
3.880 V Contemporary Christi 29270	3.960 V Cable Radio 3 Talk R 19510	3.751 H ETV Bangla 8385
3.880 V Dance 29270	3.960 V Cable Radio 4 Lifest 19510	3.751 H ETV Gujarati 8385
3.880 V Flashback New Wave 29270	3.960 V Cable Radio 5 Law&Or 19510	3.751 H ETV Telugu 8385
3.880 V Folk Rock 29270	3.960 V Cable Radio 6 Issues 19510	3.765 H In Demand 19510
3.880 V Golden Oldies 29270	3.960 V Children's 19510	3.778 H ImaginAsian TV 1860
3.880 V Gospel 29270	3.960 V Classic R&B 19510	3.780 V In Demand 22500
3.880 V Great Standards 29270	3.960 V Classic Rock 19510	3.800 H Hot Net Plus 19510
3.880 V Hard Rock 29270	3.960 V Contemporary Christi 19510	3.800 H Playboy TV Classic 19510
3.880 V Holiday Happenings 29270	3.960 V Dance 19510	3.800 H Playboy TV en Espano 19510
3.880 V Hottest Hits 29270	3.960 V Flashback New Wave 19510	3.800 H Spice Hot 19510
3.880 V Jazz 29270	3.960 V Folk Rock 19510	3.800 H Spice Live 19510
3.880 V Latin Contemporary 29270	3.960 V Golden Oldies 19510	3.800 H Spice Platinum 19510
3.880 V Listening Room 29270	3.960 V Gospel 19510	3.815 V TBN Enlace USA 19510
3.880 V Lite Classical 29270	3.960 V Great Standards 19510	3.815 V TV Superstore 19510
3.880 V Modern Country 29270	3.960 V Hard Rock 19510	3.832 V OlympuSat Package 19510
3.880 V New Age 29270	3.960 V Holiday Happenings 19510	3.900 V 24HTVE 27684
3.880 V Rap 29270	3.960 V Hot Country 19510	3.900 V DOCUTVE 27684
3.880 V Reggae 29270	3.960 V Hottest Hits 19510	3.900 V TVEA1 27684
3.880 V Regional Mexican 29270	3.960 V Jazz 19510	3.900 V TVEA2 27684
3.880 V Retro Dance 29270	3.960 V Latin Contemporary 19510	3.900 V AJE 27684
3.880 V Rock & Roll Oldies 29270	3.960 V Listening Room 19510	3.900 V EURONEWS 27684
3.880 V Salsa 29270	3.960 V Lite Classical 19510	3.900 V IMF 27684
3.880 V Show Tunes 29270	3.960 V Modern Country 19510	3.900 V RCLA 27684
3.880 V Smooth Jazz 29270	3.960 V New Age 19510	3.900 V REE 27684
3.880 V Soft Hits 29270	3.960 V Rap 19510	3.900 V RNE1 27684
3.880 V Swing 29270	3.960 V Reggae 19510	3.900 V RNE3 27684
3.880 V Symphonic 29270	3.960 V Retro Dance 19510	3.900 V RNE5 27684
3.880 V Tejano 29270	3.960 V Rock 'n' Blues 19510	3.940 V APTN Test Card 29270
3.880 V Traditional Country 29270	3.960 V Rock 'n' Roll Oldies 19510	3.940 V Video Rola 29270
3.880 V Urban Adult Contempo 29270	3.960 V Salsa 19510	3.940 V Cine Latino 29270
3.880 V Urban Beat 29270	3.960 V Show Tunes 19510	3.940 V HTV 29270
3.920 V OS Download 26470	3.960 V Smooth Jazz 19510	3.940 V Infinito 29270
3.920 V Soap East 26470	3.960 V Soft Hits 19510	3.940 V Telefe Internacional 29270
3.920 V Soap West 26470	3.960 V Swing 19510	3.940 V Utilisima Satelital 29270
3.920 V Toon East 26470	3.960 V Symphonic 19510	3.940 V ZEE TV USA 29270
3.920 V Toon West 26470	3.960 V Traditional Country 19510	3.970 H The Sportsmans Chann 14027
3.920 V ABC Fam Backhaul 26470	3.960 V Urban Adult Contempo 19510	
3.940 V Playboy TV 19510	3.960 V Urban Beat 19510	
3.940 V TVND Theatre 16 19510	3.960 V Vocal Blends 19510	
3.940 V TVND Theatre 17 19510	3.970 V Symphonic 11162	
3.940 V TVND Theatre 18 19510	3.975 H Showtime Family West 19510	
3.940 V TVND Theatre 19 19510	3.975 H Showtime HDTV West 19510	
3.940 V TVND Theatre 20 19510	3.975 H Showtime Next West 19510	
3.940 V TVND Theatre 21 19510	3.975 H Showtime Woman West 19510	
3.940 V TVND Theatre 22 19510	4.100 H ESPN Classic 29270	
3.940 V TVND Theatre 23 19510	4.100 H ESPN Desportes 29270	
3.940 V TVND Theatre 24 19510	4.100 H ESPNews 29270	
3.940 V 70's Super Hits 19510	4.100 H Lifetime Movie Netwo 29270	
3.940 V American Originals 19510	4.100 H Lifetime Real Women 29270	
3.940 V Atmospheres 19510	4.100 H SoapNet 29270	

3.980 V AE Biography MPEG 27690	12.224 R KMBC-TV 20000	12.268 L Adult Contemporary 20000
3.980 V CNBC2 MPEG Audio 27690	12.224 R KMCI-TV 20000	12.268 L Concert Classics 20000
3.980 V DIY MPEG Audio 27690	12.224 R KOIN-TV 20000	12.268 L Expressions 20000
3.980 V History Channel In 27690	12.224 R KOKI-TV 20000	12.268 L Light Classical 20000
3.980 V IFC MPEG Audio 27690	12.224 R KOPB-TV 20000	12.268 L Tropical Breezes 20000
3.980 V Lifetime MPEG Audi 27690	12.224 R KOTV-TV 20000	12.268 L Urban Adult 20000
3.980 V ZDTV MPEG Audio 27690	12.224 R KPDX-TV 20000	12.282 R KAET-TV 20000
3.980 V Much Music MPEG Au 27690	12.224 R KPTV-TV 20000	12.282 R KASW-TV 20000
4.000 H Playboy Director's C 19510	12.224 R KSHB-TV 20000	12.282 R KDNL-TV 20000
4.000 H Si TV 19510	12.224 R KSMO-TV 20000	12.282 R KETC-TV 20000
4.000 H Spice 19510	12.224 R KTUL-TV 20000	12.282 R KHBW-TV 20000
4.000 H Spice 2 19510	12.224 R KWBP-TV 20000	12.282 R KHOU-TV 20000
4.000 H The Hot Network 19510	12.224 R WBZ-TV 20000	12.282 R KMOV-TV 20000
4.000 H The Hot Zone 19510	12.224 R WCAX-TV 20000	12.282 R KNXV-TV 20000
4.000 H The Tennis Channel 19510	12.224 R WCVB-TV 20000	12.282 R KPHO-TV 20000
4.000 H CRN 1 19510	12.224 R WDAF-TV 20000	12.282 R KPLR-TV 20000
4.000 H CRN 2 - Sports Talk 19510	12.224 R WETK-TV 20000	12.282 R KPNX-TV 20000
4.000 H CRN 4 - Lifestyles 19510	12.224 R WFFF-TV 20000	12.282 R KPRC-TV 20000
4.000 H CRN 5 - Law & Order 19510	12.224 R WFXT-TV 20000	12.282 R KRIV-TV 20000
4.000 H CRN 6 - Issues 19510	12.224 R WGBH-TV 20000	12.282 R KSAZ-TV 20000
4.000 H TRN - Talk Radio N 19510	12.224 R WHDH-TV 20000	12.282 R KSDK-TV 20000
4.060 V AMERICA ONE 20000	12.224 R WLVI-TV 20000	12.282 R KTRK-TV 20000
4.060 V FIRESTONE COMMUNI 20000	12.224 R WPEC-TV 20000	12.282 R KTVI-TV 20000
4.060 V SORPRESSA 20000	12.224 R WPTZ-TV 20000	12.282 R KTVK-TV 20000
4.060 V STC 20000	12.224 R WVNY-TV 20000	12.282 R KTXH-TV 20000
4.100 V Gospel Music 29270	12.239 L BET 20000	12.282 R KUHT-TV 20000
4.100 V JCTV 29270	12.239 L Bravo US 20000	12.282 R KUTP-TV 20000
4.100 V TBN US 29270	12.239 L CNN Financial Networ 20000	12.282 R WAXN-TV 20000
4.100 V The Church Channel 29270	12.239 L Court TV 20000	12.282 R WBTV-TV 20000
4.140 V Azteca America Este 25325	12.239 L Empire Sports Networ 20000	12.282 R WCCB-TV 20000
4.140 V Azteca America Oeste 25325	12.239 L Galavision Este 20000	12.282 R WCNC-TV 20000
4.140 V Azteca Siete 25325	12.239 L HBO East 20000	12.282 R WGVU-TV 20000
4.140 V Azteca Trece 25325	12.239 L PPV Sports 20000	12.282 R WJZY-TV 20000
4.160 H A Taste of Spice 19510	12.239 L Tech TV 20000	12.282 R WLOS-TV 20000
4.160 H Spice Live 19510	12.239 L The Hot Zone 20000	12.282 R WNSC-TV 20000
4.160 H Spice Ultimate 19510	12.253 R KAUT-TV 20000	12.282 R WOOD-TV 20000
4.172 V Pleasure 14600	12.253 R KCAL-TV 20000	12.282 R WSOC-TV 20000
4.172 V TEN 14600	12.253 R KCET-TV 20000	12.282 R WSPA-TV 20000
4.172 V TENBlox 14600	12.253 R KCOP-TV 20000	12.282 R WTVI-TV 20000
4.172 V TENBlue 14600	12.253 R KCPQ-TV 20000	12.282 R WWMT-TV 20000
4.172 V TENClips 14600	12.253 R KCTS-TV 20000	12.282 R WWMB-TV 20000
4.172 V TENXtsy 14600	12.253 R KETA-TV 20000	12.282 R WXMI-TV 20000
4.186 V HITN 5184	12.253 R KFMB-TV 20000	12.282 R WYFF-TV 20000
4.186 V HITN CH2 5184	12.253 R KFOR-TV 20000	12.282 R WZZM-TV 20000
ECHOSTAR 7, ANIK F3	12.253 R KGTV-TV 20000	12.297 L Discovery Health 20000
241.0 East (119.0 West)	12.253 R KING-TV 20000	12.297 L ESPN Classic 20000
AMC016KB	12.253 R KIRO-TV 20000	12.297 L Fox News Channel 20000
	12.253 R KMEX-TV 20000	12.297 L Fox Sports Alternate 20000
	12.253 R KNSD-TV 20000	12.297 L Fox Sports Rocky Mou 20000
11.720 R Dish Network multipl 26000	12.253 R KOCB-TV 20000	12.297 L HBO 2 East 20000
ECH007KB	12.253 R KOCO-TV 20000	12.297 L HBO Signature East 20000
	12.253 R KOED-TV 20000	12.297 L IFC US 20000
	12.253 R KOKH-TV 20000	12.297 L Showtime East 20000
12.224 R KATU-TV 20000	12.253 R KOMO-TV 20000	12.297 L Toon Disney 20000
12.224 R KCPT-TV 20000	12.253 R KONG-TV 20000	12.297 L Festive Italian 20000
12.224 R KCTV-TV 20000	12.253 R KPBS-TV 20000	12.311 R KAKW-TV 20000
12.224 R KCWE-TV 20000	12.253 R KSBI-TV 20000	12.311 R KAMU-TV 20000
12.224 R KGW-TV 20000	12.253 R KSTW-TV 20000	12.311 R KBHK-TV 20000
12.224 R KJRH-TV 20000	12.253 R KSWB-TV 20000	12.311 R KBWB-TV 20000
	12.253 R KTFO-TV 20000	12.311 R KCEN-TV 20000
	12.253 R KTWB-TV 20000	12.311 R KGO-TV 20000
	12.253 R KWBT-TV 20000	12.311 R KGUN-TV 20000
	12.253 R KWTV-TV 20000	12.311 R KHRR-TV 20000
	12.253 R WBFS-TV 20000	12.311 R KICU-TV 20000
	12.253 R WBTV-TV 20000	12.311 R KMSB-TV 20000
	12.253 R WBZL-TV 20000	12.311 R KNCT-TV 20000
	12.253 R WCFE-TV 20000	12.311 R KNTV-TV 20000
	12.253 R WCSV-TV 20000	12.311 R KOLD-TV 20000
	12.253 R WFLX-TV 20000	12.311 R KPIX-TV 20000
	12.253 R WLTV-TV 20000	12.311 R KQED-TV 20000
	12.253 R WNNE-TV 20000	12.311 R KTTU-TV 20000
	12.253 R WPBF-TV 20000	12.311 R KTVU-TV 20000
	12.253 R WPEC-TV 20000	12.311 R KUAT-TV 20000
	12.253 R WPTV-TV 20000	12.311 R KVOA-TV 20000
	12.253 R WTVX-TV 20000	12.311 R KWBA-TV 20000
	12.253 R WXEL-TV 20000	12.311 R KWBU-TV 20000
	12.253 R XETV-TV 20000	12.311 R KWKT-TV 20000
	12.268 L C-SPAN 20000	12.311 R KWTX-TV 20000
	12.268 L C-SPAN 2 20000	12.311 R KXGR-TV 20000
	12.268 L ESPN 2 20000	12.311 R KXXV-TV 20000
	12.268 L ESPNews 20000	12.311 R WASV-TV 20000
	12.268 L Flix East 20000	12.311 R WBSC-TV 20000
	12.268 L Food Network US 20000	12.311 R WFYI-TV 20000
	12.268 L GSN - Game Show Ne 20000	12.311 R WGN-TV 20000
	12.268 L Playboy TV 20000	12.311 R WHNS-TV 20000
	12.268 L QVC US 20000	12.311 R WISH-TV 20000
	12.268 L TEN - The Erotic N 20000	12.311 R WLFL-TV 20000
	12.268 L 70's Hits 20000	12.311 R WNCN-TV 20000

12.311 R WNDY-TV 20000	12.326 L Sci-Fi 20000
12.311 R WOTV-TV 20000	12.326 L Showtime West 20000
12.311 R WPWR-TV 20000	12.326 L The Learning Channel 20000
12.311 R WRAL-TV 20000	12.326 L TNT 20000
12.311 R WRAZ-TV 20000	12.326 L Acoustic Crossroads 20000
12.311 R WRDC-TV 20000	12.326 L Country Classics 20000
12.311 R WRTV-TV 20000	12.326 L Country Currents 20000
12.311 R WTHR-TV 20000	12.326 L Environmental East 20000
12.311 R WTLJ-TV 20000	12.326 L Foreground Music 20000
12.311 R WTTV-TV 20000	12.326 L Hot FM 20000
12.311 R WTTW-TV 20000	12.326 L New Country 20000
12.311 R WTVD-TV 20000	12.326 L Urban Beat 20000
12.311 R WUNC-TV 20000	12.341 R KBFD-TV 20000
12.311 R WXIN-TV 20000	12.341 R KBYU-TV 20000
12.326 L AMC - American Mov 20000	12.341 R KFVE-TV 20000
12.326 L CMT US 20000	12.341 R KGMB-TV 20000
12.326 L Discovery Channel 20000	12.341 R KHET-TV 20000
12.326 L ESPN 20000	12.341 R KHNL-TV 20000
12.326 L HBO Family East 20000	12.341 R KHON-TV 20000
12.326 L PBS 20000	12.341 R KIKU-TV 20000
12.326 L Sci-Fi 20000	12.341 R KITV-TV 20000
12.326 L Showtime West 20000	12.341 R KJZZ-TV 20000
12.326 L The Learning Channel 20000	12.341 R KPNZ-TV 20000
12.326 L TNT 20000	12.341 R KSL-TV 20000
12.326 L Acoustic Crossroads 20000	12.341 R KSTU-TV 20000
12.326 L Country Classics 20000	12.341 R KTMW-TV 20000
12.326 L Country Currents 20000	12.341 R KTVX-TV 20000
12.326 L Environmental East 20000	12.341 R KUED-TV 20000
12.326 L Foreground Music 20000	12.341 R KULC-TV 20000
12.326 L Hot FM 20000	12.341 R KUTV-TV 20000
12.326 L New Country 20000	12.341 R KUWB-TV 20000
12.326 L Urban Beat 20000	12.341 R KWHE-TV 20000
12.341 R KBFD-TV 20000	12.341 R WABM-TV 20000
12.341 R KBYU-TV 20000	12.341 R WBIQ-TV 20000
12.341 R KFVE-TV 20000	12.341 R WBRC-TV 20000
12.341 R KGMB-TV 20000	12.341 R WIAT-TV 20000
12.341 R KHET-TV 20000	12.341 R WJSU-TV 20000
12.341 R KHNL-TV 20000	12.341 R WTTO-TV 20000
12.341 R KHON-TV 20000	12.341 R WVTM-TV 20000
12.341 R KIKU-TV 20000	12.355 L ESPN 2 Alternate 20000
12.341 R KITV-TV 20000	12.355 L ESPN Alternate 20000
12.341 R KJZZ-TV 20000	12.355 L Fox Sports Bay Area 20000
12.341 R KPNZ-TV 20000	12.355 L Fox Sports New York 20000
12.341 R KSL-TV 20000	12.355 L Fox Sports South 20000
12.341 R KSTU-TV 20000	12.355 L Showtime Extreme Eas 20000
12.341 R KTMW-TV 20000	12.355 L The Movie Channel Ea 20000
12.341 R KTVX-TV 20000	12.355 L The Movie Channel Xt 20000
12.341 R KUED-TV 20000	12.355 L Universityhouse 20000
12.341 R KULC-TV 20000	12.355 L WE - Women's Enterta 20000
12.341 R KUTV-TV 20000	12.370 R ACN - America's Co 20000
12.341 R KUWB-TV 20000	12.370 R Business TV 1 20000
12.341 R KWHE-TV 20000	12.370 R Business TV 2 20000
12.341 R WABM-TV 20000	12.370 R EWTN US 20000
12.341 R WBIQ-TV 20000	12.370 R Fox Sports Alternate 20000
12.341 R WBRC-TV 20000	12.370 R HSN - Home Shoppin 20000
12.341 R WIAT-TV 20000	12.370 R ShopNBC 20000
12.341 R WJSU-TV 20000	12.370 R The Beauty and Fashi 20000
12.341 R WTTO-TV 20000	12.370 R The Disney Channel E 20000
12.341 R WVTM-TV 20000	12.370 R UCTV - University 20000
12.355 L ESPN 2 Alternate 20000	12.370 R Univision Este 20000
12.355 L ESPN Alternate 20000	12.370 R Angel One 20000
12.355 L Fox Sports Bay Area 20000	12.370 R PPV Guide 20000
12.355 L Fox Sports New York 20000	12.370 R Remote Control Help 20000
12.355 L Fox Sports South 20000	12.384 L DISH-on-Demand PPV 20000
12.355 L Showtime Extreme Eas 20000	12.384 L Fox Sports Detroit 20000
12.355 L The Movie Channel Ea 20000	12.384 L Fox Sports New Engla 20000
12.355 L The Movie Channel Xt 20000	12.384 L Fox Sports Pittsburg 20000
12.355 L Universityhouse 20000	12.384 L FX 20000
12.355 L WE - Women's Enterta 20000	
12.370 R ACN - America's Co 20000	
12.370 R Business TV 1 20000	
12.370 R Business TV 2 20000	
12.370 R EWTN US 20000	
12.370 R Fox Sports Alternate 20000	
12.370 R HSN - Home Shoppin 20000	
12.370 R ShopNBC 20000	
12.370 R The Beauty and Fashi 20000	
12.370 R The Disney Channel E 20000	
12.370 R UCTV - University 20000	
12.370 R Univision Este 20000	
12.370 R Angel One 20000	
12.370 R PPV Guide 20000	
12.370 R Remote Control Help 20000	
12.384 L DISH-on-Demand PPV 20000	
12.384 L Fox Sports Detroit 20000	
12.384 L Fox Sports New Engla 20000	
12.384 L Fox Sports Pittsburg 20000	
12.384 L FX 20000	

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Freq GHz	Pol	Channel Name	Symbol rate
12.384	L	Noggin	20000
12.384	L	Sunshine Network	20000
12.384	L	TBN - Trinity Broa	20000
12.384	L	The Weather Channel	20000
12.384	L	Destinations Audio	20000
12.384	L	Latino Pop	20000
12.384	L	Muzak	20000
12.384	L	Muzak 2	20000
12.384	L	Viva Marachi	20000
12.399	R	Animal Planet	20000
12.399	R	CNBC US	20000
12.399	R	Comedy Central East	20000
12.399	R	Fox Sports Northwest	20000
12.399	R	HBO 2 West	20000
12.399	R	Lifetime	20000
12.399	R	MSNBC	20000
12.399	R	TBS Superstation (	20000
12.399	R	TV Land	20000
12.399	R	VH 1 US	20000
12.399	R	WGN Superstation	20000
12.399	R	Contemporary Christi	20000
12.399	R	Contemporary Instrum	20000
12.399	R	Contemporary Jazz Fl	20000
12.399	R	Easy Instrumentals	20000
12.399	R	Jazz Traditions	20000
12.414	L	Black Starz! East	20000
12.414	L	Encore East	20000
12.414	L	Extasy	20000
12.414	L	Lifetime Movie Netwo	20000
12.414	L	Pax TV	20000
12.414	L	Starz! Cinema East	20000
12.414	L	Starz! East	20000
12.414	L	Starz! Family East	20000
12.414	L	Starz! Theater East	20000
12.414	L	Westerns East	20000
12.428	R	KABC-TV	20000
12.428	R	KCBS-TV	20000
12.428	R	KNBC-TV	20000
12.428	R	KTLA-TV	20000
12.428	R	KTTV-TV	20000
12.428	R	KWGN-TV	20000
12.428	R	WPIX-TV	20000
12.428	R	WSBK-TV	20000
12.428	R	WWOR-TV	20000
12.428	R	WXTV-TV	20000
12.428	R	70's Songbook	20000
12.428	R	Big Band Era	20000
12.428	R	Classic Rock	20000
12.428	R	Eurostyle	20000
12.428	R	JukeBox Gold	20000
12.428	R	Nonstop Hip Hop	20000
12.443	L	ABC Family	20000
12.443	L	Cartoon Network	20000
12.443	L	CNN Headline News	20000
12.443	L	E! Entertainment TV	20000
12.443	L	HGTV US	20000
12.443	L	MTV East	20000
12.443	L	Nickelodeon West	20000
12.443	L	TCM - Turner Class	20000
12.443	L	The New TNN	20000
12.443	L	Travel Channel	20000
12.443	L	USA Network East	20000
12.443	L	Adult Alternative	20000
12.443	L	Hawaiian Music	20000
12.443	L	Hot Hits	20000
12.443	L	Kids tunes	20000
12.443	L	LDS Radio Network	20000
12.443	L	Modern Rock Alternat	20000
12.443	L	Power Rock	20000
12.457	R	Cinemax East	20000
12.457	R	DISH-on-Demand PPV	20000
12.457	R	Fox Sports Chicago	20000
12.457	R	Fox Sports Southwest	20000
12.457	R	MoreMax East	20000
12.457	R	MSG Network	20000
12.457	R	Speed Channel	20000
12.457	R	Sundance Channel Eas	20000
12.457	R	TV Games Network	20000
12.472	L	Comcast SportsNet Mi	20000
12.472	L	DISH-on-Demand PPV	20000
12.472	L	Fox Sports Cincinnat	20000
12.472	L	Fox Sports Midwest	20000
12.472	L	MuchMusic USA	20000
12.472	L	NASA TV	20000
12.472	L	Nickelodeon East	20000
12.472	L	RAI International 1/	20000
12.472	L	WorldLink TV	20000
12.472	L	Info Card	20000
12.472	L	Broadway & Hollywood	20000
12.486	R	A&E - Arts & Enterta	20000
12.486	R	CNN USA	20000
12.486	R	HBO West	20000
12.486	R	Showtime Too East	20000
12.486	R	The Disney Channel W	20000
12.486	R	The History Channel	20000
12.486	R	Adult Favorites	20000
12.486	R	Blues	20000
12.486	R	Fiesta Mexicana	20000
12.486	R	Latin Style	20000
12.486	R	New Age	20000
12.486	R	Reggae	20000
12.501	L	Cinemax West	20000
12.501	L	Fox Sports West	20000
12.501	L	The Outdoor Channel	20000
12.501	L	WABC-TV	20000
12.501	L	WCBS-TV	20000
12.501	L	WNBC-TV	20000
12.501	L	WNET-TV	20000
12.501	L	WNYW-TV	20000
12.501	L	NESN - New England	20000
12.501	L	50's & 60's Hits	20000
12.501	L	80's Hits	20000
12.501	L	All that Jazz	20000
12.501	L	Beach Party	20000
12.501	L	Classical Ambience	20000
12.501	L	Hit Line	20000
12.501	L	Love Songs	20000
12.501	L	Metro	20000
12.501	L	Miami Mix	20000
12.501	L	Moodscapes	20000
12.501	L	New Orleans Jazz	20000
12.501	L	Piano & Guitar	20000
12.501	L	R&B Revue	20000
12.501	L	Tejano	20000
12.516	R	BBC America	20000
12.516	R	DISH-on-Demand PPV	20000
12.516	R	Fox Sports Alternate	20000
12.516	R	Fox Sports Arizona	20000
12.516	R	Fox Sports Florida	20000
12.516	R	Fox Sports North	20000
12.516	R	Fox Sports Ohio	20000
12.516	R	MTV 2 US	20000
12.516	R	RFD TV - Rural Far	20000
12.516	R	Country Music	20000
12.516	R	Reflections	20000

DIRECTV 7S
241.2 East (118.8 West)

Freq GHz	Pol	Channel Name	Symbol rate
12.530	L	Direct TV USA	20000

SATMEX 5
243.2 East (116.8 West)

Freq GHz	Pol	Channel Name	Symbol rate
11.722	H	Feed	30000
12.024	H	ESNE	3000
12.024	H	Radio Catolica El Se	3000
12.028	H	Almavision	3255
12.033	H	Test Card	2532
12.049	V	Feed	1977
12.060	V	TV Azteca feeds	5926
12.075	V	Test Card	3025
12.080	H	CCTV 4	25635
12.080	H	CTI TV	25635
12.080	H	TV Polonia	25635
12.080	H	Azio TV	25635
12.080	H	Da Ai TV	25635
12.080	H	ERA News	25635
12.080	H	Hwazan Satellite TV	25635
12.080	H	MAC TV Info Card	25635
12.080	H	Senal Columbia	25635
12.080	H	Tele Amiga Internaci	25635
12.080	H	TeleCaribe	25635
12.080	H	Polskie Radio 1	25635
12.080	H	Polskie Radio 2	25635
12.110	H	Feed	2000
12.164	H	BYU TV	3935
12.182	V	MTY 1	9666
12.182	V	MTY 2	9666
12.182	V	MTY 3	9666
12.182	V	UVE 1	9666
12.182	V	UVE 2	9666
12.196	V	CEM 1	3333
12.196	V	CEM 2	3333

SATMEX 5
243.2 East (116.8 West)

Freq GHz	Pol	Channel Name	Symbol rate
3.770	V	Universal Circus 1	7234
3.770	V	Universal Circus 2	7234
3.770	V	Universal Circus 3	7234
3.800	V	Animal Planet	29270
3.800	V	CNI Canal 40	29270
3.800	V	Discovery Health	29270
3.800	V	Discovery Kids	29270
3.800	V	ESPN	29270
3.800	V	Hallmark	29270
3.800	V	IPN Canal 11	29270
3.800	V	MTV	29270
3.800	V	People & Arts	29270
3.800	V	Travel & Adventure	29270
3.840	V	Casa Club	29270
3.840	V	Cinema Platino	29270
3.840	V	Film & Arts	29270
3.840	V	InteliTV	29270
3.840	V	MGM	29270
3.840	V	National Geographic	29270
3.840	V	Nickelodeon	29270
3.840	V	Ponchivision	29270
3.840	V	Telemundo	29270
3.840	V	Venevision Continent	29270
3.855	H	CB TV	2600
3.905	V	Sports Book	2975
3.913	V	Sotel Canal 11	2947
3.918	V	CNI Canal 40 - XHT	3329
3.935	V	Hipodromo de Preside	4440
3.935	V	Test Card	4440
3.960	V	Azteca 13 Mexico C	25325
3.960	V	Azteca 7 Mexico Ci	25325
3.960	V	Azteca America Este	25325
3.960	V	Azteca America Oeste	25325
3.980	H	Monte Maria TV	1850
3.985	V	Tele Ritmo	3183
3.989	V	Multimedios	2967
3.997	V	XEIMT Canal 22	3255
4.001	V	RGT TV Digital	2670
4.006	V	Ecuavisa	3516
4.011	V	Latinoamerica TV	3131
4.014	V	TeVe de Mente	2530
4.038	V	Video Rola	3364
4.044	V	Ocho TV	2893
4.052	V	TV Mexiquense XHTP	4307
4.060	H	Canal 22 Mexico Ci	19510
4.060	H	Canal de Congreso (V	19510
4.060	H	Gobierno de la Repub	19510
4.060	H	Test Card (VC811)	19510
4.060	H	XEIPN - Once TV (V	19510
4.084	H	Guate Vision	3162
4.103	H	CNC Columbia	2593
4.107	H	Teleformula	2012
4.133	H	Canal 9	3617
4.160	V	CMC	29270
4.160	V	ESPN 2	29270
4.160	V	Fox Sports	29270
4.160	V	HSE	29270
4.160	V	Momentum	29270
4.160	V	Movie World	29270
4.160	V	PHTV	29270
4.160	V	TVC	29270
4.160	V	Vacante	29270
4.164	H	Edusat feeds	1733
4.180	H	Cl@se - Canal 22	19510
4.180	H	Discovery Kids - Can	19510
4.180	H	Canal 13 (VC792)	19510
4.180	H	Canal 14 (VC793)	19510
4.180	H	Canal 15 (VC794)	19510
4.180	H	Canal 17	19510
4.180	H	Canal 18	19510
4.180	H	SEA y EMSAD - Can	19510
4.180	H	Telesecundaria - Can	19510
4.180	H	The History Channe	19510

SOLIDARIDAD 2
245.1 East (114.9 West)

SOL002CS

Freq GHz	Pol	Channel Name	Symbol rate
3.720	V	The History Channel	27000
3.720	V	Canal de las Artes	27000
3.720	V	Cl@se	27000
3.720	V	Discovery Kids Ameri	27000
3.720	V	Educacion Basica	27000
3.720	V	Educacion Superior	27000
3.720	V	Espacio Edusat	27000
3.720	V	Formacion docente y	27000
3.720	V	Iberoamerica TV	27000
3.720	V	Modelos cirriculares	27000
3.720	V	Radio Edusat	27000
3.720	V	Servicio Publico	27000
3.720	V	Telesecundaria	27000
3.720	V	test card	27000
3.720	V	TV Unam	27000

SATMEX 6
247.0 East (113.0 West)

Freq GHz	Pol	Channel Name	Symbol rate
3.733	H	TV Tabesquena	2875
3.744	V	UTEG	2893
3.745	H	Telemax	2976
3.752	V	TELEMAR	2893
3.759	V	MVS TV Test Card	2315
3.762	H	TV Sat	2315
3.763	H	TV Tabesquena	2933
3.772	V	Unknown	3254
3.784	V	Feed	1735
3.784	H	Tele Michoacan	8789
3.784	H	Radio Michoacan	8789
3.800	V	Canal de las Artes	27000
3.800	V	Discovery Kids Latin	27000
3.800	V	Edusat Test Card	27000
3.821	H	TV Tabesquena	3255
3.838	V	TV MAS Veracruz	3720
3.847	V	Service 1	3219
3.852	H	GPO IMAGEN	3255
3.856	H	TV Tabesquena	2670
3.858	H	SIS-JAL-RADIO-TV	2803
3.861	H	Azteca Noreste	3200
3.863	H	TV-NUEVO LEON	3200
3.865	H	Unknown	2963
3.870	H	TV Mexiquense	3580
3.872	H	Radio Mexiquense	3617
3.888	H	Central TV	3100
3.904	H	Canal 9	3617
3.928	V	Canal 7	3720
3.934	V	Radio Sonora	3300
3.934	V	Telemax	3300
3.943	V	Unknown	3701
3.951	H	Radio 1 de Marzo	3700
3.951	H	SNT	3700
3.964	V	Unknown	5000
4.058	H	XHST Canal 13	2875
4.075	V	MVS TV Test Card	3782
4.085	V	TMM TV	2821
4.095	V	MVS TV Test Card	3720
4.115	H	XHRCG Canal 7	2933
4.163	H	Hidalgo TV	3300
4.163	H	Hidalgo Radio	3300
4.174	H	TV Nuevo Leon	3200

ANIK F2
248.9 East (111.1 West)

Freq GHz	Pol	Channel Name	Symbol rate
3.866	H	Unknown	5000

North America
ECHOSTAR 10,11
250.0 East (110.0 West)

Freq GHz	Pol	Channel Name	Symbol rate
12.326	L	ARYDI	20000
12.326	L	B4UMU	20000
12.326	L	CCTV4	20000
12.326	L	DUBAI	20000
12.326	L	ESC-1	20000
12.326	L	FUTUR	20000
12.326	L	IQRAA	20000
12.326	L	ITVN	20000
12.326	L	LEOWD	20000
12.326	L	NILE	20000
12.326	L	PTV	20000
12.326	L	SPORT	20000
12.326	L	STAR+	20000
●12.355	L	ALIVE	20000
●12.355	L	BTV	20000
●12.355	L	C&T	20000
●12.355	L	FSTV	20000
●12.355	L	GEMS	20000
●12.355	L	GEMTV	20000
●12.355	L	IAD2	20000
●12.355	L	IAD3	20000
●12.355	L	IAD4	20000
●12.355	L	IAD5	20000
●12.355	L	IAD9	20000
●12.355	L	LF1	20000
●12.355	L	LINK	20000
●12.355	L	LSHOP	20000
●12.355	L	SOON	20000
●12.355	L	SOON3	20000
●12.355	L	SRN	20000
●12.355	L	TJC	20000
●12.355	L	TURBO	20000
●12.355	L	ASHOW	20000
●12.355	L	D500	20000
●12.355	L	DISH6	20000
●12.355	L	DVRDN	20000
●12.355	L	DVRVR	20000
●12.355	L	ORDER	20000
●12.355	L	MUSIC	20000
●12.384	L	KYW	20000
●12.384	L	WCAU	20000
●12.384	L	WFMZ	20000
●12.384	L	WHYY	20000
●12.384	L	WNJS	20000
●12.384	L	WPHL	20000
●12.384	L	WPSG	20000
●12.384	L	WPVI	20000
●12.384	L	WTVE	20000
●12.384	L	WTXF	20000
●12.384	L	WUVP	20000
●12.384	L	WWSI	20000
●12.384	L	WYBE	20000
●12.414	L	PPV	20000
●12.414	L	SPORT	20000
●12.428	R	5-MAX	20000
●12.428	R	ACMAX	20000
●12.428	R	BOOM	20000
●12.428	R	ENCRW	20000
●12.428	R	EWSTN	20000
●12.428	R	FOXMO	20000
●12.428	R	HBOCY	20000
●12.428	R	NICKG	20000
●12.428	R	NICKT	20000
●12.428	R	SBYND	20000
●12.428	R	STRZW	20000
●12.428	R	STZC	20000
●12.443	L	CSNCA	20000
●12.443	L	DISH1	20000
●12.443	L	DISH4	20000
●12.443	L	DRMT5	20000
●12.443	L	DRMT9	20000
●12.443	L	ELOVE	20000
●12.443	L	NBA	20000
●12.443	L	NHL	20000
●12.443	L	PPV	20000
●12.443	L	PRIME	20000
●12.443	L	SKDL	20000
●12.443	L	SPORT	20000
●12.443	L	SPSOU	20000
●12.443	L	TR3S	20000
●12.443	L	VOD	20000
●12.443	L	DISH6	20000
●12.443	L	ONPPV	20000
●12.472	L	WCFE	20000
●12.472	L	WETK	20000
●12.472	L	WGAL	20000
●12.472	L	WGBH	20000
●12.472	L	WGCB	20000
●12.472	L	WHP	20000
●12.472	L	WHTM	20000
●12.472	L	WITF	20000
●12.472	L	WLYH	20000
●12.472	L	WNYA	20000
●12.472	L	WPMT	20000
●12.472	L	WWDP	20000
12.545	R	PBS	20000
12.603	R	ALARA	20000
12.603	R	ART	20000
12.603	R	ARTMV	20000
12.603	R	B4U	20000
12.603	R	DREAM	20000
12.603	R	GEONW	20000
12.603	R	ISRLI	20000
12.603	R	MLODY	20000
12.603	R	TV5	20000
12.603	R	ZCINE	20000
12.603	R	ZEETV	20000
12.603	R	ARTMU	20000
12.603	R	ASIFM	20000
12.603	R	RFI	20000
12.603	R	ZIKR	20000
12.632	R	ALJAZ	20000
12.632	R	GEOTV	20000
12.632	R	LBC	20000
12.632	R	MBC	20000
12.632	R	PLSAT	20000
12.632	R	RTPI	20000
●12.661	R	WCWG	20000
●12.661	R	WFMY	20000
●12.661	R	WGHP	20000
●12.661	R	WLXI	20000
●12.661	R	WMYV	20000
●12.661	R	WRIC	20000
●12.661	R	WRLH	20000
●12.661	R	WTVR	20000
●12.661	R	WUND	20000
●12.661	R	WUNL	20000
●12.661	R	WUNM	20000
●12.661	R	WUNU	20000
●12.661	R	WWBT	20000
●12.661	R	WXII	20000
●12.661	R	WXLV	20000
●12.224	R	AZTCA	20000
●12.224	R	CHILR	20000
●12.224	R	CURNT	20000
●12.224	R	EMYST	20000
●12.224	R	FTRAE	20000
●12.224	R	FTRAW	20000
●12.224	R	HISTI	20000
●12.224	R	HMC	20000
●12.224	R	OVATN	20000
●12.224	R	PCLAS	20000
●12.224	R	PELIC	20000
●12.224	R	UNVSW	20000
●12.224	R	VS.	20000
●12.224	R	NBATV	20000
●12.239	L	ACDEM	20000
●12.239	L	BITV	20000
●12.239	L	BITVV	20000
●12.239	L	INFO	20000
●12.239	L	INFO5	20000
●12.239	L	KTV	20000
●12.239	L	LMN	20000
●12.239	L	NOTAX	20000
●12.239	L	PPV	20000
●12.239	L	PREVW	20000
●12.239	L	RTLR	20000
●12.239	L	SPORT	20000
●12.239	L	VOD	20000
●12.239	L	WBRZ	20000
●12.253	R	ANGL2	20000
●12.253	R	BABY	20000
●12.253	R	BYUTV	20000
●12.253	R	COLRS	20000
●12.253	R	DOC	20000
●12.253	R	FRESH	20000
●12.253	R	HITN	20000
●12.253	R	JTV	20000
●12.253	R	PLBYE	20000
●12.253	R	REAL	20000
●12.253	R	RSRCH	20000
●12.253	R	SLTV	20000
●12.253	R	TEEZ	20000
●12.253	R	TEST1	20000
●12.253	R	TEST2	20000
●12.253	R	TEST3	20000
●12.253	R	UWTV	20000
●12.253	R	VERIA	20000
●12.253	R	XCESS	20000
●12.268	L	WCNY	20000
●12.268	L	WCWN	20000
●12.268	L	WMHT	20000
●12.268	L	WNYS	20000
●12.268	L	WNYT	20000
●12.268	L	WRGB	20000
●12.268	L	WSTM	20000
●12.268	L	WSTQ	20000
●12.268	L	WSYR	20000
●12.268	L	WSYT	20000
●12.268	L	WTEN	20000
●12.268	L	WTVH	20000
●12.268	L	WXXA	20000
●12.282	R	BIO	20000
●12.282	R	CBS C	20000
●12.282	R	DIY	20000
●12.282	R	DOMIN	20000
●12.282	R	EACTN	20000
●12.282	R	ESPND	20000
●12.282	R	FLVNG	20000
●12.282	R	G4	20000
●12.282	R	HISTE	20000
●12.282	R	MIL	20000
●12.282	R	RLTY	20000
●12.282	R	TENIS	20000
●12.282	R	TMNDO	20000
●12.297	L	$1.99	20000
●12.297	L	CNAL1	20000
●12.297	L	EDRAM	20000
●12.297	L	PPV	20000
●12.297	L	SETA	20000
●12.297	L	SPORT	20000
●12.297	L	TVCOL	20000
●12.297	L	VOD	20000
●12.297	L	ORDER	20000
●12.328	L	DRMT4	20000
●12.328	L	INFO2	20000
●12.328	L	INSP	20000
●12.328	L	PPV	20000
●12.328	L	VOD	20000
●12.328	L	HOME	20000
●12.341	R	BIG10	20000
●12.341	R	DSCE	20000
●12.341	R	FSESP	20000
●12.341	R	GOLF	20000
●12.341	R	GREEN	20000
●12.341	R	ID	20000
●12.341	R	MUN2	20000
●12.341	R	SLTH	20000
●12.341	R	SUR	20000
●12.341	R	TFMLA	20000
●12.341	R	TLHIT	20000
●12.341	R	TVEI	20000
●12.370	R	CINEL	20000
●12.370	R	CNNES	20000
●12.370	R	DKIDS	20000
●12.370	R	FSC	20000
●12.370	R	FSESP	20000
●12.370	R	GAC	20000
●12.370	R	HLMRK	20000
●12.370	R	HTV	20000
●12.370	R	NTGEO	20000
●12.370	R	SCI	20000
●12.370	R	SOAP	20000
●12.370	R	STYLE	20000
●12.370	R	TMDOW	20000
●12.486	R	BDMAX	20000
●12.486	R	CBBIS	20000
●12.486	R	ETC10	20000
●12.486	R	NHLN	20000
●12.486	R	OBAMA	20000
●12.486	R	PSNES	20000
●12.486	R	TELAM	20000
●12.486	R	TMP08	20000
●12.501	L	WFSB	20000
●12.501	L	WFTY	20000
●12.501	L	WLIW	20000
●12.501	L	WLNY	20000
●12.501	L	WMBC	20000
●12.501	L	WNJB	20000
●12.501	L	WNJU	20000
●12.501	L	WNYE	20000
●12.501	L	WNYN	20000
●12.501	L	WRNN	20000
●12.501	L	WTIC	20000
●12.501	L	WTNH	20000
●12.501	L	WVIT	20000
●12.516	R	ABC-E	20000
●12.516	R	CAN-V	20000
●12.516	R	CBCNW	20000
●12.516	R	GLB-W	20000
●12.516	R	GLB-w	20000
●12.516	R	M-XS	20000
●12.516	R	SNETW	20000
●12.516	R	SUPR3	20000
●12.516	R	Vu31	20000
●12.516	R	Vu8	20000
●12.516	R	Vu9	20000
●12.516	R	VuF8	20000
●12.516	R	VuF9	20000
●12.516	R	WFN	20000
●12.516	R	GXY26	20000
●12.516	R	GXY28	20000
●12.516	R	GXY29	20000
●12.516	R	GXY39	20000
●12.516	R	GXY5	20000
●12.516	R	GXY8	20000
●12.516	R	METRO	20000
●12.516	R	BTVM	20000
●12.516	R	VUMAG	20000
●12.530	L	CCTV9	20000
●12.530	L	CCTVE	20000
●12.530	L	KCNC	20000
●12.530	L	KDVR	20000
●12.530	L	KMGH	20000
●12.530	L	KUSA	20000
●12.530	L	WBBM	20000
●12.530	L	WFLD	20000
●12.530	L	WLS	20000
●12.530	L	WMAQ	20000
●12.530	L	SING	20000
●12.530	L	SINGV	20000
●12.559	L	ALT	20000
●12.559	L	ALT10	20000
●12.559	L	ESPNA	20000
●12.559	L	ETC3	20000
●12.559	L	MASN2	20000
●12.559	L	NBA	20000
●12.559	L	NHL	20000
●12.559	L	SKDL	20000
●12.559	L	SPORT	20000
●12.574	R	WBRA	20000
●12.574	R	WDBJ	20000
●12.574	R	WDCA	20000
●12.574	R	WDCW	20000
●12.574	R	WDRL	20000
●12.574	R	WFXR	20000
●12.574	R	WJLA	20000
●12.574	R	WRC	20000
●12.574	R	WSET	20000
●12.574	R	WSLS	20000
●12.574	R	WTTG	20000
●12.574	R	WUSA	20000
●12.574	R	WWCW	20000
●12.589	L	WBZ	20000
●12.589	L	WCVB	20000
●12.589	L	WENH	20000
●12.589	L	WFXT	20000
●12.589	L	WGBX	20000
●12.589	L	WHDH	20000
●12.589	L	WLED	20000
●12.589	L	WLVI	20000
●12.589	L	WMUR	20000
●12.589	L	WNEU	20000
●12.589	L	WUNI	20000
●12.589	L	WUTF	20000
●12.589	L	WZMY	20000
●12.618	L	CTVHW	20000
●12.618	L	NCAA8	20000
●12.647	L	TLCHD	20000
●12.647	L	CBSHW	20000
●12.647	L	CBSHW1	20000
●12.647	L	RAPHD	20000
●12.676	L	ABCHW	20000
●12.676	L	EQATR	20000
●12.676	L	HDVu3	20000
●12.676	L	VuHD3	20000
●12.676	L	VuFH1	20000

DIRECTV 5
250.2 East (109.8 West)

Freq GHz	Pol	Channel Name	Symbol rate
12.618	L	DirecTV USA	20000

ANIK F1R
252.7 East (107.3 West)

Freq GHz	Pol	Channel Name	Symbol rate
11.867	V	Ontario Legislature	19510
11.867	V	Star Choice Info Cha	19510
11.867	V	Viewer's Choice Prei	19510
11.898	V	Kids Stuff	19510
12.063	H	Canal Indigo Preiew	19510
12.063	H	Star Choice Package	19510
12.081	V	Viewer's Choice Prev	19510
12.081	V	Star Choice Package	19510
12.094	H	Viewer's Choice Prev	19510
12.094	H	Star Choice Package	19510
11.952	H	Canal 6 TV	3100

C-Band: ANIK F1
252.8 East (107.2 West)

Freq GHz	Pol	Channel Name	Symbol rate
3.760	H	CBAT-TV	28500
3.760	H	CBC Mountain	28500
3.760	H	CBC Pacific North	28500
3.760	H	CBCT-TV	28500
3.760	H	CBHT-TV	28500
3.760	H	CBIT-TV	28500
3.760	H	CBKS-TV	28500
3.760	H	CBKT-TV	28500
3.760	H	CBLT-TV	28500
3.760	H	CBMT-TV	28500
3.760	H	CBNT-TV	28500
3.760	H	CBRT-TV	28500
3.760	H	CBUT-TV	28500
3.760	H	CBWT-TV	28500
3.760	H	CBXT-TV	28500
3.780	V	ARGENT/MPEG	28346
3.780	V	LCN	28346
3.780	V	LCN/MAGNETO.	28346
3.780	V	MYSTERE /MPEG	28346
3.780	V	PRISE 2 /MPEG	28346
3.780	V	CORUS RADIO	28346
3.780	V	CORUS RADIO test	28346
3.780	V	MA MAISON/MPEG	28346
3.780	V	OCCUS	28346
● 3.780	V	TELE QUEBEC	28346
3.780	V	Test	28346
3.780	V	CHMP alternate	28346
3.780	V	CINF alternate	28346
3.780	V	CINF primaire	28346
3.780	V	CKAC alternate	28346
3.780	V	CKAC primaire	28346
3.780	V	CORUS	28346
3.780	V	ENERGIE 2 /STD RA	28346
3.780	V	RADIO HUMSAFAR	28346
3.780	V	ROCK VELOUR/STD R	28346
3.780	V	TNI	28346
3.896	V	Global Gateway Chann	6150
3.896	V	Global TV (CIII f	6150
3.896	V	Global TV (cable fee	6150
3.896	V	Global TV (Global Re	6150
3.896	V	Blackout Channel	6150
3.924	V	Default setup channe	3000
3.924	V	Tone Calibrate. -20	3000
3.928	V	Default setup channe	6150
3.933	V	APTN-N	9300
3.933	V	APTN-SE	9300
3.933	V	RC channel	9300
3.933	V	APTN-SW	9300
3.933	V	Tone Calibrate	9300
3.936	V	APTN - North	6150
3.936	V	APTN Winnipeg	6150
3.936	V	TX RC	6150
3.936	V	Tone Calibrate	6150
3.962	H	CCP Download	6500
3.962	H	DCP Download	6500
3.962	H	FTN QPSK A1	6500
3.962	H	7F41_7F42	6500
3.962	H	7F43_7F80	6500
4.060	V	Meteo Media	28346
4.060	V	MUSIMAX	28346
4.060	V	MUSIMAX /CLASSIC	28346
4.060	V	MUSIQUE PLUS	28346
4.060	V	RDI	28346
4.060	V	RDI/POP	28346
4.060	V	RDS	28346
4.060	V	TV5	28346
4.060	V	ASN/TV GUIDE	28346
4.060	V	TEST	28346
4.060	V	ASTRAL BOOM 9B	28346
4.060	V	ASTRAL ENERGIE 9B	28346
4.060	V	CLASSIC	28346
4.060	V	RFI	28346
4.060	V	ROCK DETENTE 9B	28346
4.100	V	The Weather Network	28346
4.100	V	OCCUSE MPEG2	28346
4.100	V	TWN for Sirius	28346
4.121	H	Default setup channe	10851

AMC 15
255.0 East (105.0 West)

Freq GHz	Pol	Channel Name	Symbol rate
3.780	H	TLMD West	26680
3.780	H	TLMD East	26680
3.780	H	TLMD Occasional	26680
3.780	H	NBC Central	26680
3.780	H	NBC Ch 15	26680
3.780	H	NBC Ch 17	26680
3.780	H	NBC East	26680
3.780	H	NBC Mountain	26680
3.780	H	NBC Pacific	26680
11.740	H	KCAU	26000
11.740	H	KPTH	26000
11.740	H	KSIN	26000
11.740	H	KTIV	26000
11.740	H	KXNE	26000
11.740	H	WBDT	26000
11.740	H	WDTN	26000
11.740	H	WHIO	26000
11.740	H	WKAS	26000
11.740	H	WKEF	26000
11.740	H	WOUB	26000
11.740	H	WPTD	26000
11.740	H	WRGT	26000
11.840	V	WAHU	26000
11.840	V	WCAV	26000
11.840	V	WHTJ	26000
11.840	V	WVAW	26000
11.840	V	WVIR	26000
11.840	V	D105	26000
●11.969	V	Channel 1	7234
●11.969	V	Channel 2	7234
●11.969	V	Channel 3	7234
●11.969	V	Channel 4	7234
12.060	H	WBNS	26000
12.060	H	WCHS	26000
12.060	H	WCMH	26000
12.060	H	WOSU	26000
12.060	H	WOWK	26000
12.060	H	WPBO	26000
12.060	H	WPBY	26000
12.060	H	WQCW	26000
12.060	H	WSAZ	26000
12.060	H	WSFJ	26000
12.060	H	WSYX	26000
12.060	H	WTTE	26000
12.060	H	WVAH	26000
12.060	H	WWHO	26000
12.160	V	KCAU	26000
12.160	V	KMEG	26000
12.160	V	KPTH	26000
12.160	V	KSIN	26000
12.160	V	KTIV	26000
12.160	V	KXNE	26000
12.160	V	WBOY	26000
12.160	V	WDTV	26000
12.160	V	WNPB	26000
12.160	V	WVFX	26000

AMC 1
257.0 East (103.0 West)

AMC001CB

Freq GHz	Pol	Channel Name	Symbol rate
3.740	V	GMA Pinoy TV	29270
3.740	V	Cadena del Milagro	29270
3.740	V	DW-TV USA	29270
3.740	V	DW 1 Radio	29270
3.740	V	DW 2 Radio	29270
3.740	V	DW 7 Radio	29270
3.840	H	Broadcast 422	26681
3.840	H	East	26681
3.840	H	FEEDS12	26681
3.840	H	FEEDS4	26681
3.840	H	FEEDS7	26681
3.840	H	FEEDS8	26681
3.840	H	FEEDS9	26681
3.840	H	IONLife	26681
3.840	H	IONPlus	26681
3.840	H	Mountain	26681
3.840	H	Pacific	26681
3.840	H	qubo	26681
3.840	H	Worship	26681
3.910	V	KRMA-TV	13340
3.940	V	Comcast SportsNet	29270
3.940	V	KBDI-TV	29270
3.940	V	KCNC-TV	29270
3.940	V	KDVR-TV	29270
3.940	V	KMGH-TV	29270
3.940	V	KRMA-TV	29270
3.940	V	KTVD-TV	29270
3.940	V	KUSA-TV	29270
3.940	V	KWGN-TV	29270
3.940	V	Private Blue Latino	29270
3.940	V	CN8	29270
3.984	H	CTN-LARGO, FL E2	2734
4.005	H	AUX	18800
4.005	H	KEEN	18800
4.005	H	KTLN	18800
4.005	H	SKY1	18800
4.005	H	TLN	18800
4.005	H	WCFC	18800
4.067	H	Feed	3680
4.075	H	NYS LEGISLATIVE C	3000
4.180	H	MLB Extra Innings	19510

AMC001KB

Freq GHz	Pol	Channel Name	Symbol rate
11.760	H	NBC Feed (Ch 14A)	26670
11.840	H	Ch 11A	26670
11.840	H	Ch 12A	26670
11.840	H	Ch 15A	26670
11.840	H	Ch 16A	26670
11.840	H	Ch 17A	26670
11.880	H	Ch 09A	26670
11.880	H	Ch 10A	26670
11.880	H	Ch 13A	26670
11.880	H	Ch 14A	26670
11.938	V	MCC	20000
11.938	V	MS20	20000
11.938	V	MS3	20000
11.938	V	MS4	20000
11.938	V	MS81	20000
12.022	H	NBC Newschannel Fe	4231
12.028	H	NBC Newschannel F	4231
12.034	H	NBC Newschannel Fe	4231
12.044	H	NBC Newschannel Feed	4231
12.052	H	NBC Newschannel Fe	4231
12.062	V	Market Connect Netwo	4880
12.065	H	NBC Newschannel Feed	4231
12.068	H	NBC Newschannel F	4231
12.083	H	NBC Newschannel Feed	4231
12.086	H	NBC Newschannel F	4231
12.092	H	NBC Newschannel Feed	4231
12.096	V	PENTAGON DOLBY AC	20000
12.096	V	PENTAGON CHANNEL	20000
12.105	V	The Pentagon Channel	20000
12.110	H	NBC Newschannel Feed	15000
12.115	H	NBC Newschannel Fe	4231
12.126	H	NBC Newschannel Feed	4231
12.132	H	AC1.21F	4231
12.142	V	MS90	20000
12.142	V	MS92	20000
12.142	V	MS91	20000
12.142	V	MS61	20000
12.177	V	Channel Two	20000
12.177	V	Channel One	20000
12.177	V	FXTV Channel 150	20000
12.177	V	FXTV Channel 200	20000
12.177	V	Test Channel 100	20000
4.070	H	Liberty Channel	2300

DIRECTV 4S/8
AMC 2,4
259.0 East (101.0 West)

AMC004CA

Freq GHz	Pol	Channel Name	Symbol rate
3.709	V	CTVN_PGM_1	4578
3.709	V	CTVN_PGM_2	4578
3.716	V	Golden Eagle Broadca	4340
3.722	H	SUPERCANAL CARIBE	3617
3.773	V	Channel 1	4442
3.860	H	TLMD East	26670
3.860	H	TLMD Occasional	26670
3.860	H	TLMD West	26670
3.860	H	NBC Central	26670
3.860	H	NBC Ch 15	26670
3.860	H	NBC Ch 17	26670
3.860	H	NBC East	26670
3.860	H	NBC Mountain	26670
3.860	H	NBC Pacific	26670
3.880	V	CNBC	28347
3.880	V	Sci Fi West	28347
3.880	V	FAMILYLAND-TV	28347
3.920	V	A_E West	28347
3.920	V	BET West	28347
3.920	V	Bravo West	28347
3.920	V	Cartoon West	28347
3.920	V	Court TV West	28347
3.920	V	Food Channel West	28347
3.920	V	HGTV West	28347
3.920	V	History West	28347
3.920	V	Oxygen West	28347
3.920	V	The Discovery Channe	28347
3.920	V	The Learning Channel	28347
3.920	V	USA West	28347
3.940	H	AE	28347
3.940	H	EWTN	28347
3.940	H	Food Network	28347
3.940	H	HGTV	28347
3.940	H	History Channel	28347
3.940	H	Inspiration TV	28347
3.940	H	Lifetime	28347
3.940	H	Lifetime Movie Netwo	28347
3.940	H	Lifetime West	28347
3.940	H	Oxygen East	28347
3.940	H	TBN	28347
3.940	H	WGN	28347
3.958	V	FAMILYLAND-TV	6349
3.973	V	Service 1	4362
3.980	H	Homepage	24074
3.982	H	HD Movies	14630
3.982	H	Homepage	14630
3.982	H	Install Interface	14630
3.982	H	Just In Pg1	14630
3.982	H	Just In Pg2	14630
3.982	H	Kids Genre	14630
3.982	H	News Genre	14630
3.982	H	Sports Genre	14630
4.062	H	AMC East	28347
4.062	H	BET East	28347
4.062	H	Cartoon Network East	28347
4.062	H	Comedy Central East	28347
4.062	H	Disney East	28347
4.062	H	MTV East	28347
4.062	H	Nickelodeon East	28347
4.062	H	Sci-Fi Channel East	28347
4.062	H	The Discovery Channe	28347
4.062	H	TLC East	28347
4.062	H	USA East	28347
4.062	H	VH1 East	28347
4.080	V	Animal Planet	28347
4.080	V	C-SPAN	28347
4.080	V	C-SPAN 2	28347
4.080	V	CNN	28347
4.080	V	Discovery Health	28347
4.080	V	Golf Channel	28347
4.080	V	Great American Count	28347
4.080	V	Headline News	28347
4.080	V	HSN	28347
4.080	V	QVC	28347
4.080	V	Travel Channel	28347
4.080	V	TV One	28347
4.100	H	FAMILYLAND-TV	28347
4.175	V	FE TV - Far East T	4340
4.175	V	La Familia Network	4340
4.175	V	FE - Far East Radio	4340

AMC004KA

Freq GHz	Pol	Channel Name	Symbol rate
11.704	V	KUIL TV FOX64	2170
11.730	V	Data	5000
11.791	V	TAN TV 4	19700
11.807	H	Data	2713
11.820	H	TV English	5700
11.820	H	TV Latino	5700
11.820	H	3ABN Radio	5700
11.820	H	Radio 74	5700
11.845	V	Data	2170
11.860	H	TAN 1/KBS	28140
11.860	H	TAN 2/MBC	28140
11.860	H	TAN 3/SBS	28140
11.860	H	TAN 4/EBS	28140
11.860	H	TAN 5/YTN	28140
11.860	H	APOSTOLIC	28140
11.860	H	Bethel TV	28140
11.860	H	GCN	28140
11.860	H	Gospel Music TV	28140
11.860	H	TAN TV 6	28140
11.860	H	TAN TV 7	28140
●11.983	H	ATN SERVICE 2	5900
11.983	H	ATN/ACN SERVICE 1	5900
11.983	H	ESPERANZA TV	5900
11.983	H	HOPE CHANNEL	5900
11.983	H	LIFETALK RADIO	5900
12.018	H	Service 1	2034
12.025	H	401 (unknown channel	5207
12.025	H	402 (unknown channel	5207
12.060	H	21-MSNBC AC3	26700
12.060	H	22-CourtTV AC3	26700
12.060	H	23-Versus AC3	26700
12.060	H	27-CNBC AC3	26700
12.060	H	29-A E Biography AC3	26700
12.060	H	01-MSNBC	26700
12.060	H	02-CourtTV	26700
12.060	H	03-Versus	26700
12.060	H	04-National Geograph	26700
12.060	H	05-Fox News	26700
12.060	H	06-Weather Channel	26700
12.060	H	07-CNBC	26700
12.060	H	08-A E History	26700
12.060	H	10-A E	26700
12.060	H	9-A E Biography	26700
12.060	H	Enc 12 Test	26700
12.060	H	Enc11 Test	26700
12.120	V	CMC	30000
12.120	V	ETN	30000
12.120	V	HRT 1	30000
12.120	V	Planeta	30000
12.120	V	BVN	30000
12.120	V	CGN TV	30000
12.120	V	HRT TV	30000
12.120	V	TRWAM	30000
12.120	V	CMC Radio	30000
12.120	V	HRT Radio	30000
12.120	V	BVN RNW 1 Radio	30000
12.120	V	BVN RNW 2 Radio	30000
12.120	V	BVN RNW 3 Radio	30000
12.120	V	BVN RNW 5 Radio	30000
12.120	V	BVN RNW 6 Radio	30000
12.120	V	BVN Rvi 1 Radio	30000
12.120	V	Radio Maryja	30000
12.169	H	RTP Internacional	3003

TV Digital
Radio Digital
TV Digital Crypt
Radio Digital Crypt
TV High Definition
TV High Definition Crypt

SatcoDX Global Satellite Chart 02/2009

DIRECTV 4S/8
AMC 2,4
259.1 East (100.9 West)

AMC004KB

Freq Pol (GHz)	Channel Name	Symbol rate
11.654 V	BVN	30000
11.654 V	CGN TV	30000
11.654 V	HRT TV	30000
11.654 V	HRT Radio	30000
11.654 V	BVN RNW 1 Radio	30000
11.654 V	BVN RNW 2 Radio	30000
11.654 V	BVN RNW 3 Radio	30000
11.654 V	BVN RNW 5 Radio	30000
11.654 V	BVN RNW 6 Radio	30000
11.654 V	BVN Rvi 1 Radio	30000
11.655 V	BVN	30000
11.655 V	CGN TV	30000
11.655 V	HRT TV	30000
11.655 V	HRT Radio	30000
11.655 V	BVN RNW 1 Radio	30000
11.655 V	BVN RNW 2 Radio	30000
11.655 V	BVN RNW 3 Radio	30000
11.655 V	BVN RNW 5 Radio	30000
11.655 V	BVN RNW 6 Radio	30000
11.655 V	BVN Rvi 1 Radio	30000
● 12.120 V	BVN	30000
● 12.120 V	CGN TV	30000
● 12.120 V	HRT TV	30000
● 12.120 V	HRT Radio	30000
● 12.120 V	BVN RNW 1 Radio	30000
● 12.120 V	BVN RNW 2 Radio	30000
● 12.120 V	BVN RNW 3 Radio	30000
● 12.120 V	BVN RNW 5 Radio	30000
● 12.120 V	BVN RNW 6 Radio	30000
● 12.120 V	BVN Rvi 1 Radio	30000

GALAXY 16
261.0 East (99.0 West)

GXY04RCB

Freq Pol (GHz)	Channel Name	Symbol rate
3.742 V	Adhoc Ch 1	28340
3.742 V	Adhoc Ch 3	28340
3.742 V	Adhoc Sig 1 Ch 2	28340
3.742 V	Open	28340
3.742 V	Open Ch 4	28340
3.744 H	SNG	1953
3.776 H	{Empty}	3255
3.780 V	WB Los Angeles Fe	26000
3.786 H	FAMILYNET	5000
3.790 H	KCHF-TV	3256
3.811 H	SNG	3256
3.820 V	WB Los Angeles Fee	26000
3.825 H	SCOPUS-NET-TECH	2604
3.825 H	Telesur Campeche	2604
3.880 H	Red Canal 2	29688
3.880 H	Red Canal 5	29688
3.880 H	Red Canal 9	29688
3.917 H	TELEPUERTO.TUXTLA	3124
3.928 H	TELEVER	3124
3.952 H	{Empty}	12299
4.000 H	LESEA Network	26400
4.000 H	WHT - 1	26400
4.000 H	WHT - 2	26400
4.000 H	Angel 1&2	26400
4.000 H	Angel 1&2 - 2	26400
4.000 H	Angel 3&4	26400
4.000 H	Angel 3&4 - 2	26400
4.000 H	Angel 4&5	26400
4.000 H	Angel 4&5 - 2	26400
4.000 H	Future 1	26400
4.000 H	Future 1 - 2	26400
4.000 H	Future 2	26400
4.000 H	Future 2 - 2	26400
4.000 H	Future 3	26400
4.000 H	Future 3 - 2	26400
4.000 H	Pulse FM	26400
4.000 H	Pulse FM - 2	26400
4.000 H	Q-Tones	26400
4.140 V	Feed (ABC HD NET-2	29127
4.153 H	SERVICE 1	13235
4.180 V	Cartoon Network Lati	19510
4.180 V	Discovery Channel Me	19510
4.180 V	Fox Sports Latin Ame	19510
4.180 V	MultiCinema	19510
4.180 V	MultiPremier	19510
4.180 V	MVS Feeds	19510

GXY04RKH

Freq Pol (GHz)	Channel Name	Symbol rate
11.800 H	America's Voice	19510
11.800 H	ESPN Extra PPV	19510
11.800 H	ESPN PPV 1	19510
11.800 H	ESPN PPV 2	19510
11.800 H	ESPN PPV 3	19510
11.800 H	ESPN PPV 4	19510
11.800 H	ESPN PPV 5	19510
11.800 H	ESPN PPV 6	19510
11.800 H	ESPN Now	19510
11.840 H	Bravo US	19510
11.840 H	HBO 2 West	19510
11.840 H	HBO Signature West	19510
11.840 H	HGTV US	19510
11.840 H	Love Stories West	19510
11.840 H	Mystery West	19510
11.840 H	Showtime Too West	19510
11.840 H	Starz! Theater West	19510
11.840 H	The History Channel	19510
11.840 H	The Movie Channel We	19510
11.840 H	Westerns West	19510
11.920 H	BBC America	19510
11.920 H	Discovery Health	19510
11.920 H	Discovery Kids	19510
11.920 H	ESPNews	19510
11.920 H	Fox Sports World	19510
11.920 H	Game Show Network	19510
11.920 H	IFC US	19510
11.920 H	Noggin	19510
11.920 H	Playboy TV	19510
11.920 H	The Golf Channel	19510
11.920 H	The Science Channel	19510
11.920 H	Turner Classic Movie	19510

Freq Pol (GHz)	Channel Name	Symbol rate
11.960 H	Feed	26000
12.060 V	Action West	19510
12.060 V	Cinemax West	19510
12.060 V	Encore West	19510
12.060 V	HBO Family West	19510
12.060 V	HBO West	19510
12.060 V	MoreMax West	19510
12.060 V	Showtime Extreme Wes	19510
12.060 V	Showtime Showcase We	19510
12.060 V	Showtime West	19510
12.060 V	Starz! West	19510
12.060 V	The Movie Channel Xt	19510
12.060 V	True Stories West	19510
12.061 H	USPS TV	3125
12.077 H	PSTN 15	9000
12.077 H	PSTN 17	9000
12.077 H	PSTN 19	9000
12.077 H	PSTN 23	9000
12.160 H	DIY - Do It Yourse	19510
12.160 H	Fox Gold Atlantic	19510
12.160 H	Fox Gold Central	19510
12.160 H	Fox Gold Pacific	19510
12.160 H	Great American Count	19510
12.160 H	MBC Network	19510
12.160 H	NUE TV	19510
12.160 H	The Word Network	19510

GXY04RKV

Freq Pol (GHz)	Channel Name	Symbol rate
11.780 V	A&E History Internat	19510
11.780 V	Lifetime Movie Netwo	19510
11.780 V	MTV 2 US	19510
11.780 V	MuchMusic USA	19510
11.780 V	Nick Gas	19510
11.780 V	Style	19510
11.780 V	The Biography Channe	19510
11.780 V	Toon Disney	19510
11.780 V	TRIO	19510
11.820 V	Discovery Civilizati	19510
11.820 V	Discovery Home & Lei	19510
11.820 V	Discovery Wings	19510
11.820 V	ESPN 2	19510
11.820 V	ESPN Alternate	19510
11.820 V	National Geographic	19510
11.820 V	Speed Channel	19510
11.820 V	VH1 Classic	19510
11.820 V	VH1 Country	19510
11.820 V	50's Golden Oldies	19510
11.820 V	70's Oldies	19510
11.820 V	80's Hits	19510
11.820 V	Acid Jazz	19510
11.820 V	Album Rock	19510
11.820 V	Children's	19510
11.820 V	Classic Hits Blend	19510
11.820 V	Coffee House Rock	19510
11.820 V	Contemporary Christi	19510
11.820 V	Contemporary Instrum	19510
11.820 V	Dance	19510
11.820 V	Great Standards	19510
11.820 V	Holidays and Happeni	19510
11.820 V	Hot Country	19510
11.820 V	Lite Jazz	19510
11.820 V	New Age	19510
11.820 V	R&B Rap Hits	19510
11.820 V	Reggae	19510
11.820 V	Retro Dance	19510
11.820 V	Soft Hits	19510
11.880 H	Bravo US	19510
11.880 H	ESPN Classic	19510
11.880 H	HBO 2 East	19510
11.880 H	HBO Signature East	19510
11.880 H	HGTV US	19510
11.880 H	Love Stories East	19510
11.880 H	Mystery East	19510
11.880 H	Showtime Too East	19510
11.880 H	Starz! Theater East	19510
11.880 H	The History Channel	19510
11.880 H	The Movie Channel Ea	19510
11.880 H	Westerns East	19510
11.880 H	60's Oldies	19510
11.880 H	Adult Contemporary	19510
11.880 H	Classic Rock	19510
11.880 H	Lite Classical	19510
11.880 H	Urban Beat	19510
11.900 V	In Demand 1	19510
11.900 V	In Demand 2	19510
11.900 V	In Demand 3	19510
11.900 V	In Demand 4	19510
11.900 V	In Demand 5	19510
11.900 V	In Demand 6	19510
11.900 V	Outdoor Life Network	19510
11.900 V	Sci Fi	19510
11.900 V	The Hot Network	19510
11.900 V	TV Land	19510
11.900 V	WE - Women's Enterta	19510
11.900 V	Alternative Rock	19510
11.900 V	Hottest Hits	19510
11.900 V	Jazz Vocal Blends	19510
11.900 V	Listening Room	19510
11.900 V	Modern Country	19510
11.940 V	BET Action PPV	19510
11.940 V	BET on Jazz	19510
11.940 V	Black Starz! East	19510
11.940 V	Newsworld Internatio	19510
11.940 V	Ovation - The Arts N	19510
11.940 V	Spice 2	19510
11.940 V	Sundance Channel Wes	19510
11.940 V	The Box Edge	19510
11.940 V	The International Ch	19510
11.940 V	VH1 Soul	19510
11.940 V	Blues	19510
11.940 V	Classic Jazz	19510
11.940 V	Gospel	19510
11.940 V	Lite Classical	19510
11.940 V	Rap	19510
11.940 V	Symphonic	19510
11.940 V	Trends	19510
11.940 V	Urban Adult Contempo	19510
12.040 H	Action East	19510
12.040 H	Cinemax East	19510
12.040 H	Encore East	19510
12.040 H	HBO East	19510
12.040 H	HBO Family East	19510
12.040 H	MoreMax East	19510
12.040 H	Showtime East	19510
12.040 H	Showtime Extreme Eas	19510
12.040 H	Showtime Showcase Ea	19510
12.040 H	Starz! East	19510
12.040 H	The Movie Channel Xt	19510
12.040 H	True Stories East	19510
12.140 V	Bloomberg TV US	19510
12.140 V	Fox Movie Channel	19510
12.140 V	GoodLife TV Network	19510
12.140 V	Spice	19510
12.140 V	Tech TV	19510
12.140 V	The Insirational Lif	19510
12.140 V	The Outdoor Channel	19510
12.140 V	Trinity Broadcasting	19510
12.187 V	01-CNN	8500
12.187 V	02-MSNBC	8500
12.187 V	03-CNBC	8500
12.187 V	Alt 01-CNN	8500
12.187 V	IdeaCast	8500
12.187 V	04-Channel 4	8500

North America
GALAXY 25
263.0 East (97.0 West)

GXY025KB

Freq Pol (GHz)	Channel Name	Symbol rate
● 11.716 V	AL Anwar	22000
● 11.716 V	Best Turk	22000
● 11.716 V	DIDAR GLOBAL TV	22000
● 11.716 V	GBN	22000
● 11.716 V	Heaven Vision TV	22000
● 11.716 V	NTD	22000
● 11.716 V	Rang A Rang	22000
● 11.716 V	Rang-A-Rang	22000
● 11.716 V	RTA	22000
● 11.716 V	Supreme Master TV	22000
● 11.716 V	SUROYO TV	22000
● 11.716 V	TOLO TV	22000
● 11.716 V	TRISTIT USA	22000
● 11.716 V	VBS - Vietnam TV	22000
● 11.716 V	Accent Radio	22000
● 11.716 V	American Liberty Rad	22000
● 11.716 V	KNLB FM Christian	22000
● 11.716 V	The Radio Nueva Vida	22000
● 11.716 V	VBS Radio	22000
11.789 V	BN BOSNIA	28125
● 11.789 V	Globecast 64	28125
11.789 V	Orange TV	28125
11.789 V	TVK	28125
11.789 V	Al Karma	28125
11.789 V	AL MAGHRIBIA	28125
11.789 V	Canal Algerie	28125
● 11.789 V	GlobeCast 65	28125
11.789 V	KBN TV	28125
11.789 V	Kuwait 2	28125
11.789 V	Kuwait 3	28125
11.789 V	MHz Worldview	28125
11.789 V	BN Bosnia Radio	28125
11.789 V	Al Maghiribia Radio	28125
11.789 V	Radio Internationale	28125
11.789 V	TDA-1	28125
● 11.836 V	AL-ALAM	20765
● 11.836 V	Appadana	20765
● 11.836 V	Daystar TV	20765
● 11.836 V	IRIB 2	20765
● 11.836 V	IRINN	20765
● 11.836 V	NTD	20765
● 11.836 V	Payam E Azadi	20765
● 11.836 V	Spare/OPEN	20765
● 11.836 V	TV 7 TUNIS	20765
● 11.836 V	TV Nejat	20765
● 11.836 V	INT 1	20765
● 11.836 V	INT 3	20765
● 11.836 V	INT 4	20765
● 11.836 V	nextshared/CTR	20765
● 11.836 V	Overcomer/Star4	20765
● 11.836 V	Quran Radio	20765
● 11.836 V	RADIO MAAREF	20765
● 11.836 V	RADIO SARASARI	20765
● 11.836 V	Radio Seday-e Ashna	20765
● 11.836 V	RBN radio	20765
● 11.836 V	STAR1&2	20765
● 11.836 V	Star5 and AVR	20765
● 11.836 V	Tunis Radio1	20765
● 11.836 V	Tunis Radio2	20765
11.867 V	Duna TV	22000
11.867 V	Ariana TV	22000
11.867 V	AssyriaSat	22000
11.867 V	Coptic TV	22000
11.867 V	GlobeCast 406	22000
11.867 V	Salaam TV	22000
11.867 V	TelePadrePio	22000
● 11.867 V	Ten TV	22000
● 11.867 V	Time TV	22000
11.867 V	Kossuth Radio	22000
11.867 V	Amrit Bani	22000
11.867 V	Darbar Sahib	22000
11.867 V	Nanak Parchar	22000
11.867 V	Nishkaam	22000
11.874 H	RTV21	22000
11.874 H	TV Klan	22000
11.874 H	Alsat	22000
11.874 H	Ariana Afghan	22000
11.874 H	DMC	22000
11.874 H	KJC TV	22000
11.874 H	LTV World	22000
11.874 H	RTV21 Plus	22000
11.874 H	Telepace	22000
● 11.874 H	USArmenia	22000
11.874 H	GLR Radio 1	22000
11.874 H	GLR Radio 2	22000
11.874 H	RTV21 Radio	22000
11.874 H	TV Klan Radio	22000
11.874 H	Alsat Radio	22000
11.874 H	DZAR radio	22000
11.874 H	Futbol DP	22000
11.898 V	Amrita TV	22000
11.898 V	Asianet	22000
11.898 V	Asianet News	22000
11.898 V	Asianet Plus	22000
11.898 V	RTR Planeta	22000
11.898 V	RTR Sport	22000
11.898 V	SetantaSports	22000
11.898 V	Shalom TV	22000
11.898 V	ARTN TV	22000
11.898 V	Belarus TV	22000
11.898 V	NTA	22000
11.935 H	Armenian TV	20000
11.935 H	Bostel TV	20000
11.935 H	DFH-1	20000
11.935 H	DFH-2	20000
11.935 H	DFH-3	20000
11.935 H	DFH-4	20000
11.935 H	DFH-5	20000
11.935 H	DFHSports	20000
11.935 H	MBN TV	20000
11.935 H	TV Romania	20000
11.935 H	Armenian Radio	20000
11.935 H	Bostel Radio	20000
11.935 H	DFHFM-1	20000
11.935 H	DFHFM-2	20000
11.935 H	Romanian Radio	20000
● 11.966 H	AGHAPY TV	22000
11.966 H	AL FAYHAA	22000
11.966 H	CNL	22000
11.966 H	Kurdsat	22000
11.966 H	Lao Star USA	22000
11.966 H	MRTV/Al Jareeah	22000
11.966 H	RODNOY	22000
11.966 H	TGN	22000
11.966 H	The Word Network	22000
11.966 H	TOTV	22000
● 11.966 H	TRISTIT USA	22000
11.966 H	TRT	22000
11.966 H	VTV-4	22000
● 11.966 H	EPersian Radio	22000
11.966 H	Kol Haneshama	22000
11.966 H	Spirit1	22000
11.966 H	TGN Radio	22000
11.991 V	CTN	22000
11.991 V	ERI TV	22000
11.991 V	Pink Plus	22000
11.991 V	Setanta 2	22000
11.991 V	Kuwait TV	22000
11.991 V	M2 Morocco	22000
11.991 V	RTS Diaspora	22000
11.991 V	Setanta Adhoc	22000
11.991 V	Simay Azadi	22000
11.991 V	Radio Pink	22000
● 11.991 V	Radio Zara FM	22000

Freq Pol (GHz)	Channel Name	Symbol rate
11.991 V	M2 Morocco Radio	22000
11.991 V	RSI Radio	22000
11.991 V	Test 243	22000
11.998 H	KISB-001	20000
11.998 H	KISB-002	20000
11.998 H	KISB-003	20000
11.998 H	KISB-004	20000
11.998 H	KISB-005	20000
11.998 H	KISB-006	20000
11.998 H	Al Jazeera English	20000
11.998 H	KISB-007	20000
11.998 H	Saudi TV2	20000
11.998 H	TV Cancao Nova	20000
11.998 H	KISB Radio-001	20000
11.998 H	Radio Cancao Nova	20000
12.008 V	Knowledge Channel	3000
12.053 V	NTV Hayat	22000
12.053 V	Pink Extra	22000
12.053 V	RSC 1 Romania	22000
12.053 V	RSC 2 Romania	22000
12.053 V	RSC3 PROTV INT	22000
12.053 V	Al Forat	22000
12.053 V	GlobeCast 1	22000
12.053 V	GlobeCast 155	22000
12.053 V	GlobeCast 402	22000
12.053 V	GlobeCast 502	22000
12.053 V	GlobeCast 51	22000
12.053 V	GlobeCast 709	22000
12.053 V	GlobeCast 813	22000
12.053 V	Press TV	22000
12.053 V	'70s	22000
12.053 V	'80s	22000
12.053 V	Adult Alt.	22000
12.053 V	Adult Top 40	22000
12.053 V	Arena Rock	22000
12.053 V	Big Band	22000
12.053 V	Bluegrass	22000
12.053 V	Blues	22000
12.053 V	Christian	22000
12.053 V	Class/Master	22000
12.053 V	Classic R&B	22000
12.053 V	Classic rock	22000
12.053 V	Classic/Ctry	22000
12.053 V	Cont/Instrum	22000
12.053 V	Dance	22000
12.053 V	Easy/Listen	22000
12.053 V	Hip Hop / R&B	22000
12.053 V	Hit List	22000
12.053 V	Int'l/Love	22000
12.053 V	Jazz	22000
12.053 V	Light/Class	22000
12.053 V	Lite Hits	22000
12.053 V	Mexicana	22000
12.053 V	Oldies	22000
12.053 V	Party/Favs	22000
12.053 V	Pop Latino	22000
12.053 V	R&B Soul	22000
12.053 V	Reggae	22000
12.053 V	Reggaeton	22000
12.053 V	Retro-Active	22000
12.053 V	Rock	22000
12.053 V	Rock/Espanol	22000
12.053 V	Salsa/Mereng	22000
12.053 V	Seasons	22000
12.053 V	Singer/Stand	22000
12.053 V	Smooth Jazz	22000
12.053 V	Soundscapes	22000
12.053 V	Taste/Italy	22000
12.053 V	Tejano	22000
12.053 V	Today's/Ctry	22000
12.053 V	Al Forat Radio	22000
12.053 V	RFI /MC M O	22000
12.053 V	RFI Francaise	22000
12.084 V	ASC Flix	22000
12.084 V	ASC Xtra	22000
12.084 V	Globecast 157	22000
12.084 V	Tele5	22000
12.084 V	TV Polonia	22000
12.084 V	TVP Info	22000
● 12.084 V	Al Kass	22000
12.084 V	AZ TV	22000
12.084 V	EBRU TV	22000
12.084 V	Samanyolu TV	22000
12.084 V	AZ Radio	22000
12.084 V	PolskieRadio1	22000
12.084 V	PolskieRadio3	22000
● 12.090 H	IPtv News1	20000
● 12.090 H	Lakorn Thai	20000
● 12.090 H	V Smile	20000
12.090 H	ZHONG	20000
12.090 H	ABN	20000
12.090 H	ANDISHEH TV	20000
12.090 H	ARIA INTERNATIONA	20000
12.090 H	CASPIAN TV	20000
12.090 H	Hitz and Health	20000
12.090 H	HZTV	20000
● 12.090 H	ICtv	20000
12.090 H	ISHTAR TV	20000
12.090 H	LAO Champa TV	20000
12.090 H	LIVE CHANNEL	20000
12.090 H	MKTV	20000
12.090 H	NAT TV	20000
12.090 H	PARS TV	20000
12.090 H	TAMASHA	20000
12.090 H	DWRR	20000
12.090 H	DZMM	20000
12.090 H	RSI	20000
● 12.115 V	AFN MUSIC CHANNEL	22425
12.115 V	AMGA	22425
● 12.115 V	CCN MT/PT	22425
12.115 V	CTVN	22425
12.115 V	E2 Channel	22425
12.115 V	HORIZON ARMENIAN	22425
12.115 V	IMPACT TV	22425
12.115 V	ITC	22425
12.115 V	NEWS1	22425
12.115 V	Pastor Scott	22425
12.115 V	SAFE TV	22425
12.115 V	SPIRIT TV	22425
● 12.115 V	Accent Radio	22425
12.115 V	Access America	22425
12.115 V	Radio Cristo Vive	22425
12.115 V	The Edge radio	22425
12.121 H	2STV	20000
12.121 H	Walf TV	20000
● 12.121 H	CT Showtime	20000
12.121 H	DAAI	20000
12.121 H	Markazi TV	20000
● 12.121 H	ME TV	20000
12.121 H	NOORTV	20000
12.121 H	PARS TV	20000
12.121 H	Parvaz TV	20000
12.121 H	Payam-E-Afghan	20000
12.121 H	Persian Bazaar TV	20000
● 12.121 H	PITT 06	20000
● 12.121 H	PITT 13	20000
● 12.121 H	PITT 14	20000
12.121 H	KRSI	20000
● 12.121 H	Radio 15	20000
● 12.121 H	Radio 17	20000
● 12.121 H	Radio 18	20000
12.146 V	Abu Dhabi sport	22000
12.146 V	Al-Iraqiya	22000
12.146 V	Jamahirya TV	22000
12.146 V	Jordan TV	22000
12.146 V	Oman TV	22000
12.146 V	Qatar TV	22000
12.146 V	Saudi TV1	22000
12.146 V	Sharjah TV	22000
12.146 V	Sudan TV	22000
12.146 V	Syrian TV	22000
12.146 V	YEMEN TV	22000
12.146 V	Aden Radio	22000
12.146 V	Emirates FM	22000
12.146 V	Main General Program	22000
12.146 V	Oman radio	22000
12.146 V	Oman-Holy Quran	22000
12.146 V	Program One	22000
12.146 V	Quatar radio	22000
12.146 V	Radio Omduman Holy K	22000
12.146 V	Radio Quran	22000
● 12.146 V	Republic Of Iraq Rad	22000
12.146 V	Sana'a radio	22000
● 12.146 V	Sharjah FM	22000
12.146 V	Sudan Radio	22000

Freq Pol (GHz)	Channel Name	Symbol rate
12.146 V	Voice Of People	22000
12.146 V	Voice of Youth	22000
12.153 H	ARIA MEHR TV	20000
12.153 H	ETV	20000
● 12.153 H	GlobeCast 2	20000
12.153 H	Iran TV	20000
12.153 H	Jaam-E-Jam	20000
12.153 H	Omid-E-Iran	20000
12.153 H	PEN TV	20000
12.153 H	Russia Today	20000
12.153 H	Tapesh TV	20000
12.153 H	Tasvir Iran	20000
12.153 H	Bahai Radio	20000
12.153 H	EthiopianRadio	20000
● 12.153 H	GlobeCast 12	20000
12.153 H	KW1L/KW1R	20000
12.153 H	KW2L/KW2R	20000
12.153 H	Radio Seoul	20000
12.177 V	BTV	23000
● 12.177 V	CCN	23000
12.177 V	CHURCH CHANNEL	23000
12.177 V	Emmanuel TV	23000
12.177 V	FTV	23000
12.177 V	GODS LEARNING CH	23000
12.177 V	House of Yahweh	23000
12.177 V	JCTV	23000
12.177 V	KURD TV	23000
12.177 V	SOAC	23000
12.177 V	TBN	23000
12.177 V	TBN ENLACE	23000
12.177 V	TBN Russia	23000
● 12.177 V	TCS-TV	23000
12.177 V	AFN IRAN	23000
12.177 V	Asian FM	23000
12.177 V	Best NCE	23000
12.177 V	WRN Eng NAM	23000
● 12.177 V	WRN Fra EUR	23000
12.177 V	WRN Mul NAM	23000

GALAXY 3C
265.0 East (95.0 West)

GXY03CCH

Freq Pol (GHz)	Channel Name	Symbol rate
3.842 H	NPS - AB	11000
3.842 H	NPS - CB	11000
3.842 H	NPS - FO	11000
3.842 H	NPS - NB	11000
3.914 H	Horse/Dog Racing F	3074

GXY03CCV

Freq Pol (GHz)	Channel Name	Symbol rate
3.730 V	LATV HOUSTON	8825
3.730 V	Fusion TV	8825
3.730 V	INN News	8825
3.745 V	FAITHTV	2206
3.754 V	INN News	3978
3.767 V	Service 2	6111
3.885 V	Horse/Dog Racing F	3074
3.908 V	Horse/Dog Racing F	3074
3.925 V	Horse/Dog Racing F	3074
3.929 V	Horse/Dog Racing F	3074
3.934 V	Horse/Dog Racing F	3074
4.040 H	DAYSTAR-C	29110
4.040 H	KUOK C	29110
4.040 H	WBTW	29110
4.040 H	WJMF	29110
4.040 H	WNGS-C	29110
4.040 H	WSAV	29110
4.040 H	WUDT	29110
4.040 H	WUVF C	29110
4.100 V	ESPN	28640
4.100 V	ESPN 2	28640
4.100 V	Fox News Channel	28640
4.100 V	HGTV	28640
4.100 V	Lifetime	28640
4.100 V	Lifetime Movie Netwo	28640
4.100 V	Starz! East	28640
4.100 V	The Discovery Channe	28640
4.100 V	The Disney Channel	28640
4.100 V	The Food Network	28640
4.100 V	The Learning Channel	28640
4.100 V	Toon Disney	28640
4.100 V	USDTV - US Digital	28640
4.168 V	LPTV1	6617
4.168 V	LPTV2	6617
4.168 V	LPTV3	6617
4.168 V	LPTV4	6617
4.168 V	LPTV5	6617
4.176 V	CATV	6617
4.176 V	TV DOMINICANA	6617

GXY03CKH

Freq Pol (GHz)	Channel Name	Symbol rate
11.780 H	CCTV 4	20759
11.780 H	CCTV 9	20759
11.780 H	CCTV E	20759
11.780 H	CCTV F	20759
11.810 H	HRTV	20000
11.810 H	OTB1	20000
11.810 H	OTB2	20000
11.810 H	OTB3	20000
11.810 H	RTN1	20000
11.810 H	RTN11	20000
11.810 H	RTN12	20000
11.810 H	RTN13	20000
11.810 H	RTN14	20000
11.810 H	RTN15	20000
11.810 H	RTN16	20000
11.810 H	RTN17	20000
11.810 H	RTN18	20000
11.810 H	RTN19	20000
11.810 H	RTN2	20000
11.810 H	RTN20	20000
11.810 H	RTN22	20000
11.810 H	RTN3	20000
11.810 H	RTN4	20000
11.810 H	RTN5	20000
11.810 H	RTN6	20000
11.810 H	RTN7	20000
11.810 H	RTN8	20000
11.810 H	RTN9	20000
11.810 H	CHNL44	20000

Freq Pol (GHz)	Channel Name	Symbol rate
11.810 H	ILLOTB	20000
11.810 H	MTI1	20000
11.810 H	MTI2	20000
11.907 H	Feed	4296
12.050 H	ATV	20000
12.050 H	PSTV	20000
12.050 H	PTVN	20000
12.050 H	RTN21	20000
12.050 H	RTN22	20000
12.050 H	RTN23	20000
12.050 H	RTN24	20000
12.050 H	RTN25	20000
12.050 H	RTN26	20000
12.050 H	RTN27	20000
12.050 H	RTN28	20000
12.050 H	RTN29	20000
12.050 H	RTN30	20000
12.050 H	RTN31	20000
12.050 H	RTN32	20000
12.050 H	RTN33	20000
12.050 H	RTN34	20000
12.050 H	RTN35	20000
12.050 H	RTN36	20000
12.050 H	RTN37	20000
12.050 H	RTN38	20000
12.050 H	RTN39	20000
12.050 H	RTN40	20000
12.050 H	AON	20000
12.050 H	MACTV	20000

C-Band: GALAXY 26
267.0 East (93.0 West)

Freq Pol (GHz)	Channel Name	Symbol rate
11.711 V	CBS NEWSPATH	14312
11.728 H	Reuters WNS	4000
11.728 H	Unknown	4000
11.777 V	Feed	3979
11.797 H	Unknown	45000
11.827 V	BTV CH 603	8429
11.827 V	BTV CH 601	8429
11.827 V	BTV CH 602	8429
11.834 V	BTV CH 605	20510
11.836 H	Classic Arts Showcas	7180
11.836 H	iSkyCom	7180
11.836 H	SBS	7180
11.836 H	UpSessions	7180
11.836 H	WOW	7180
11.836 H	YTN	7180
11.838 H	Unknown	3400
11.847 H	ODU Channel A	7466
11.847 H	ODU Channel B	7466
11.847 H	ODU Channel C	7466
11.847 H	ODU Channel D	7466
11.847 H	ODU Channel E	7466
11.847 H	ODU Channel F	7466
11.870 V	AAFES	4167
11.870 V	AGHAPY	4167
11.877 V	HDTV-English	5079
11.877 V	HDTV-EnglishAltern	5079
11.877 V	HDTV-French	5079
11.877 V	HDTV-FrenchAlterna	5079
11.877 V	HDTV-Spanish	5079
11.877 V	HDTV-SpanishAltern	5079
11.892 H	A copy of Channel 1	3000
11.892 H	Channel 1	3000
11.900 H	Channel 2	3020
11.900 H	Channel 3	3020
11.900 H	Unknown	3020
11.905 V	CHANNEL 2	5000
11.905 V	Default Channel 1	5000
11.905 V	Non-IRS users	5000
11.906 H	Unknown	3030
11.911 V	McGee Tyson Ch1	1500
11.915 H	Justice Television N	4400
11.915 H	Unknown	4400
11.987 H	Feed	3979
11.997 V	Feed (Channel 1)	7234
11.997 V	Feed (Channel 2)	7234
11.997 V	Feed (Channel 3)	7234
11.997 V	Feed (Channel 4)	7234
11.997 V	Feed	7234
12.049 V	ABC News Now	3979
12.060 H	Feed	3979
12.077 H	Feed (Azteca 13)	8681
12.077 H	Feed (Azteca 7)	8681
12.077 V	Feed (Azteca America	8681
12.077 V	Feed (Azteca America	8681
12.077 V	Feed	8681
12.079 H	CNN Headline News	4000
12.080 H	Justice Television N	5070
12.086 H	Fish and Wildlife Ch	3010
12.086 H	Fish and Wildlife Ch	3010
12.086 H	Keesler AFB Ch1	3010
12.086 H	Keesler AFB Ch2	3010
12.096 H	Wright Patterson Ch	4500
12.096 H	Wright Patterson Ch	4500
12.096 H	Wright Patterson Ch	4500
12.096 H	Wright Patterson Ch	4500
12.096 H	Wright Patterson Ch	4500
12.096 H	Wright Patterson Ch	4500
12.096 H	Wright Patterson Ch	4500
12.096 H	Wright Patterson Ch	4500
12.118 V	Channel 1 Baltimore	20617
12.118 V	Channel 2 Baltimore	20617
12.118 V	Channel 3 Kansas Stu	20617
12.118 V	Channel 4 Atlanta St	20617
12.118 V	Channel 5 Dallas Stu	20617
12.118 V	Channel 6 Seattle St	20617
12.118 V	Channel 7 Baltimore	20617
12.118 V	Channel 8 Baltimor	20617
12.118 V	Channel 9	20617
12.132 H	Fox News Channel	3105
12.146 V	DMX Music Package	
12.161 H	f	6150
12.175 V	Lord & Taylor Video	5147
12.175 V	MACYS 4	5147
12.175 V	MACYS 5	5147
12.175 V	Flower Show	5147
12.175 V	JR/YM MUSIC	5147
12.177 V	MACYS 4	5147
12.177 V	MACYS 5	5147
12.177 V	Flower Show	5147
12.177 V	JR/YM MUSIC	5147
12.190 V	Feed	2098

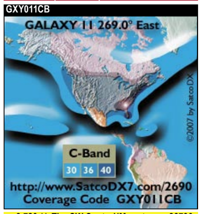
C-Band: BRASILSAT 4
268.0 East (92.0 West)

BRA0B4CB

Freq Pol (GHz)	Channel Name	Symbol rate
3.656 H	TV Antena 10	3150
3.665 H	CB Leiloes	3214
3.670 H	Feeds (NoName)	3214
3.684 H	Rede NGT	4780
3.836 H	Rede Mulher feeds	4444
3.844 V	TV Rio Negro	3255
3.851 V	Estacao TV	3617
3.925 V	TV Aparecida	2967
3.925 V	Radio Aparecida AM	2967
3.925 V	Radio Aparecida FM	2967
3.928 V	TVBV	2700
3.933 V	TV Tapajos	4000
3.933 V	FM 94	4000
3.956 V	TV Gazeta AL	4285

North America
GALAXY 11,17
269.0 East (91.0 West)

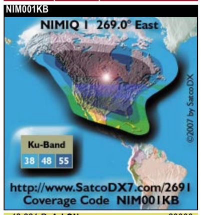
GXY011CB



Freq Pol (GHz)	Channel Name	Symbol rate
3.720 H	The CW Central/Mount	26700
3.720 H	The CW East	26700
3.720 H	The Cw West	26700
3.740 V	Fox Sports Feeds (Ba	27800
3.740 V	Fox Sports Feeds (Bi	27800
3.740 V	Fox Sports Feeds (	27800
3.740 V	Fox Sports Feeds (	27800
3.740 V	Fox Sports Feeds (	27800
3.740 V	Fox Sports Feeds (	27800
3.740 V	Fox Sports Feeds (	27800
3.740 V	Fox Sports Feeds (	27800
3.780 V	FX West	30000
3.800 H	ALT 2	30000
3.800 H	FBNHD	30000
3.800 H	FXEHD	30000
3.800 H	NGHD	30000
3.800 H	Out of Svc	30000
3.800 H	Out Service 248	30000
3.800 H	PPV	30000
3.800 H	TVG	30000
3.820 V	Atlantic	30000
3.820 V	Central	30000
3.820 V	FMC	30000
3.820 V	Fox News	30000
3.820 V	Nat Geo	30000
3.820 V	Pacific	30000
3.820 V	Network B/U	30000
3.820 V	FMC CRN	30000
3.840 H	Comcast HD	29250
3.840 H	VERSUS AC3	29250
3.840 H	CRS ALT MPEG	29250
3.840 H	mtn	29250
3.840 H	Sports Net West	29250
3.840 H	SportsNet NW (Portla	29250
3.840 H	Versus Alternate AC3	29250
3.840 H	VERSUS MPEG	29250
3.840 H	Versus Alternate Mpe	29250
3.860 V	Espanol	30000
3.860 V	Fuel	30000
3.860 V	Reality	30000
3.860 V	Soccer	30000
3.860 V	Speed	30000
3.860 V	FBN - Fox Business	30000
3.860 V	Future 2	30000
3.860 V	Future 2-Dig	30000
3.920 H	Africa	26000
3.920 H	Europe audios 3 & 4	26000
3.920 H	ac-3 US domestic	26000
3.920 H	Canada	26000
3.920 H	Canada AC-3	26000
3.920 H	David Radio	26000
3.920 H	Domestic	26000
3.920 H	Domestic-English onl	26000
3.920 H	Enc7 AC3	26000
3.920 H	EWTN Europe Englis	26000
3.920 H	EWTN Europe Intern	26000
3.920 H	latin AC-3	26000
3.920 H	PAC RIM	26000
3.920 H	Radio 95	26000
3.920 H	Radio 96	26000
3.920 H	Real SP & Radio	26000
3.920 H	Span Dom	26000
3.920 H	Span Int	26000
3.920 H	WEWN	26000
3.920 H	covenant	26000
3.920 H	Eurobird	26000
3.920 H	EWTN Audio Test	26000
3.920 H	Fund Appeal	26000
3.920 H	Occasional	26000
3.920 H	Radio 97	26000
3.920 H	Radio 98	26000
3.920 H	radio Direct	26000
3.920 H	Radio Pas	26000
3.920 H	Sirius satellite rad	26000
3.920 H	wewn	26000
3.920 H	WQOP-IHR	26000
4.007 H	KLUZ-TV	2480
4.014 H	THE WORD NETWORK	6620
4.040 H	Fox Sports Feeds (	27800
4.040 H	Fox Sports Feeds (	27800
4.040 H	Fox Sports Feeds (	27800
4.040 H	Fox Sports Feeds ({E	27800
4.082 H	SHOP AT HOME	3300
4.089 H	JEWELRY TV	3300
4.092 H	ADHOC	2170
4.120 H	The Hallmark Channel	19510
4.135 H	TOC - DVIDS 1	6112
4.135 H	TOC - DVIDS 2	6112
11.865 V	Unknown	2500
12.060 V	FETN	26700
12.060 V	HSTN	26700
12.060 V	LETN	26700
12.060 V	LTCN	26700
12.060 V	Occasional Use - 4	26700
12.060 V	Occasional Use - 1	26700
12.060 V	Occasional Use - 2	26700
12.060 V	Occasional Use - 3	26700
12.060 V	TXCN	26700
12.060 V	AAFES	26700
12.135 V	Unknown	15000
3.780 H	ALT 1	30000
3.780 H	ALT 2	30000
3.780 H	FX East	30000
3.780 H	FX West	30000
3.780 H	Out of Svc	30000
3.780 H	Out Service 248	30000
3.780 H	PPV	30000
3.780 H	TVG	30000
4.013 H	THE WORD NETWORK	6620
4.133 H	TOC - DVIDS 1	6111
4.133 H	TOC - DVIDS 2	6111
4.140 V	FBNHD	27800
4.140 V	FNCHD	27799
4.140 V	FXEHD	27800
4.140 V	FXWHD	27799
4.140 V	NGHD	27800
4.140 V	SPDHD	27799

North America
NIMIQ 1
269.1 East (90.9 West)

NIM001KB



Freq Pol (GHz)	Channel Name	Symbol rate
12.224 R	A-LON	20000
12.224 R	CBC-L	20000
12.224 R	CPAC	20000
12.224 R	CPACF	20000
12.224 R	CTV-L	20000
12.224 R	HIST	20000
12.224 R	HSTDv	20000

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Freq GHz	Pol	Channel Name	Symbol rate
12.224	R	ISSUE	20000
12.224	R	LONDv	20000
12.224	R	MTV	20000
12.224	R	NCAR2	20000
●12.224	R	RCVu0	20000
12.224	R	RCVu0*	20000
12.224	R	TSC	20000
12.224	R	TVLND	20000
12.224	R	Vu22	20000
12.224	R	RFI	20000
12.239	L	A-VIC	20000
12.239	L	CW11	20000
12.239	L	GAME	20000
12.239	L	HLTH	20000
12.239	L	NCAR4	20000
12.239	L	NHL8	20000
12.239	L	OLN	20000
12.239	L	OUTTV	20000
12.239	L	RAI	20000
12.239	L	VICDv	20000
12.239	L	Vu15	20000
12.239	L	Vu24	20000
12.239	L	VuF1	20000
12.239	L	CBC1T	20000
12.253	R	VNS10	20000
12.253	R	VNUS*	20000
12.253	R	VNUS0	20000
12.253	R	VNUS1	20000
12.253	R	VNUS2	20000
12.253	R	VNUS3	20000
12.253	R	VNUS4	20000
12.253	R	VNUS5	20000
12.253	R	VNUS6	20000
12.253	R	VNUS7	20000
12.253	R	VNUS8	20000
12.253	R	VNUS9	20000
12.268	L	A&E	20000
12.268	L	CTV-T	20000
12.268	L	CTVDv	20000
12.268	L	FOXNC	20000
12.268	L	GLB-T	20000
12.268	L	GLBDv	20000
12.268	L	IDMTV	20000
12.268	L	SETNA	20000
12.268	L	SPACE	20000
12.268	L	SPCDv	20000
12.268	L	STAR	20000
12.268	L	TLC	20000
12.268	L	VuFr	20000
12.268	L	VuP32	20000
12.268	L	GXY18	20000
12.268	L	GXY2	20000
12.268	L	GXY3	20000
12.268	L	GXY30	20000
12.268	L	GXY4	20000
12.268	L	GXY7	20000
12.268	L	WRN	20000
12.282	R	CTV-R	20000
12.282	R	CTV-W	20000
12.282	R	CTV-w	20000
12.282	R	DEJA	20000
12.282	R	FOXSP	20000
12.282	R	MSTRY	20000
●12.282	R	MTIME	20000
●12.282	R	VIVA	20000
12.282	R	GXY31	20000
12.282	R	GXY32	20000
12.282	R	GXY33	20000
12.282	R	GXY36	20000
12.282	R	GXY45	20000
12.282	R	HERZ	20000
12.282	R	POWER	20000
12.297	L	BluVu	20000
12.297	L	COSMO	20000
12.297	L	IFC	20000
12.297	L	MLB4	20000
12.297	L	NFL4	20000
●12.297	L	NHL-i	20000
12.297	L	NHL4	20000
12.297	L	PHDIS	20000
12.297	L	RAPTR	20000
●12.297	L	TNGR1	20000
12.297	L	VuBuy	20000
12.297	L	XPRS*	20000
12.297	L	XPRS2	20000
12.297	L	XPRS2*	20000
12.311	R	BBCWN	20000
12.311	R	DvEPG	20000
12.311	R	E!Dv	20000
12.311	R	E!ONT	20000
12.311	R	GLB-E	20000
12.311	R	NBC-E	20000
12.311	R	SCORE	20000
12.311	R	Vu14	20000
12.311	R	Vu2	20000
12.311	R	Vu7	20000
12.311	R	VuF7	20000
12.311	R	WSBK	20000
12.311	R	NPR	20000
12.326	L	CBC-T	20000
12.326	L	CBCDv	20000
12.326	L	CTVNN	20000
12.326	L	DISC	20000
12.326	L	FOOD	20000
12.326	L	M-MOR	20000
12.326	L	MLB3	20000
12.326	L	MSQPL	20000
12.326	L	NBC-W	20000
12.326	L	NFL3	20000
12.326	L	NHL3	20000
12.326	L	SNETO	20000
12.326	L	VuF4	20000
12.326	L	VPRNT	20000
12.326	L	vPRNT	20000
12.326	L	PTMob	20000
12.341	R	APTNn	20000
12.341	R	BabyE	20000
12.341	R	BabyF	20000
12.341	R	BabyS	20000
12.341	R	CITYV	20000
12.341	R	CTV-V	20000
12.341	R	DvCTV	20000
12.341	R	DvCTY	20000
12.341	R	DvE!	20000
12.341	R	DvPBS	20000
12.341	R	E!BC	20000
12.341	R	iTV	20000
12.341	R	PBS-W	20000
12.341	R	SUNTV	20000
12.341	R	TV5	20000
12.341	R	Vu	20000
12.341	R	Vu6	20000
12.341	R	VuF6	20000
12.341	R	VuS32	20000
12.355	L	ABC-W	20000
12.355	L	ANIML	20000
12.355	L	BNN	20000
12.355	L	HGTDv	20000
12.355	L	HGTV	20000
12.355	L	MMM	20000
●12.355	L	MPIX	20000
12.355	L	NCAA1	20000
12.355	L	NFL6	20000
12.355	L	SNETP	20000
12.355	L	SRC-W	20000
12.355	L	TREDv	20000
12.355	L	TREE	20000
12.355	L	Vu30	20000
12.355	L	DESJA	20000
12.355	L	GXY10	20000
12.355	L	GXY11	20000
12.355	L	GXY20	20000
12.355	L	GXY21	20000
12.355	L	GXY23	20000
12.355	L	GXY38	20000
12.370	R	BET	20000
12.370	R	CNN	20000
12.370	R	CTMDv	20000
12.370	R	CTV-M	20000
12.370	R	FOX-W	20000
12.370	R	MET*	20000
12.370	R	MET-i	20000
12.370	R	METEO	20000
12.370	R	MLB8	20000
12.370	R	MMDVi	20000
12.370	R	NFL-N	20000
12.370	R	NHL-C	20000
12.370	R	NHL-E	20000
12.370	R	PBS-E	20000
12.370	R	PBSDv	20000
12.370	R	Vu19	20000
12.370	R	WEA	20000
12.370	R	WEA*	20000
12.370	R	WEA-i	20000
12.370	R	WeDVi	20000
12.370	R	WGN	20000
12.370	R	NPR*	20000
12.384	L	CAN-D	20000
12.384	L	CAN-H	20000
12.384	L	CAN-Z	20000
12.384	L	DRM	20000
12.384	L	SE	20000
12.384	L	SE2	20000
12.384	L	SE3	20000
12.384	L	SE4	20000
12.384	L	SERIE	20000
12.384	L	SRC-V	20000
12.384	L	VRAK	20000
12.384	L	WAHSA	20000
12.399	R	CBC-A	20000
12.399	R	CBC-a	20000
12.399	R	FIGHT	20000
12.399	R	MCTV	20000
12.399	R	MCTV*	20000
12.399	R	NCAA4	20000
●12.399	R	NFL9	20000
●12.399	R	NHL7	20000
12.399	R	NHLMH	20000
12.399	R	OMNI1	20000
12.399	R	SUPR1	20000
12.399	R	TROP	20000
12.399	R	TRPDv	20000
12.399	R	Vison	20000
12.399	R	VISON	20000
12.399	R	Vu25	20000
12.399	R	Vu27	20000
12.399	R	XPRS	20000
12.414	L	CBC-M	20000
12.414	L	CIVIL	20000
12.414	L	ESPNc	20000
12.414	L	MUSMX	20000
12.414	L	OMNI2	20000
12.414	L	ONE	20000
12.414	L	ONEDv	20000
12.414	L	Prise	20000
●12.414	L	RCVu3	20000
12.414	L	RCVu3*	20000
12.414	L	SHO-E	20000
12.414	L	SPIKE	20000
●12.414	L	VuF17	20000
12.414	L	OnHD	20000
12.428	R	ASN	20000
12.428	R	BOOK	20000
12.428	R	CITYW	20000
12.428	R	COURT	20000
12.428	R	GLB-H	20000
●12.428	R	HPI-C*	20000
●12.428	R	HPI-W*	20000
12.428	R	MLB1	20000
●12.428	R	NFL1	20000
12.428	R	NHL1	20000
12.428	R	NTV	20000
12.428	R	SUPR2	20000
12.428	R	WLDTV	20000
12.443	L	KNOW	20000
12.443	L	ATV	20000
12.443	L	CBC-H	20000
12.443	L	CBCDC	20000
12.443	L	CITYE	20000
12.443	L	SCN	20000
12.443	L	CBC1H	20000
12.443	L	CBC1V	20000
12.443	L	CBC2V	20000
12.443	L	CHED	20000
12.443	L	OZ-FM	20000
12.443	L	PC-V	20000
12.443	L	VOAR	20000
●12.457	R	EA1	20000
●12.457	R	EA2	20000
12.457	R	FAM-W	20000
12.457	R	FMLY	20000
12.457	R	GolSP	20000
12.457	R	GolTV	20000
●12.457	R	HBO2	20000
●12.457	R	MC1	20000
●12.457	R	MC2	20000
●12.457	R	MC3	20000
12.457	R	TOONE	20000
12.457	R	TOONF	20000
12.457	R	TOONW	20000
12.457	R	TTeDv	20000
12.457	R	TTfDv	20000
12.457	R	TTwDv	20000
12.457	R	CBC2T	20000
12.472	L	CBC-C	20000
12.472	L	CITYC	20000
12.472	L	CTV-c	20000
12.472	L	CTV-C	20000
12.472	L	GLB-C	20000
12.472	L	GLB-S	20000
12.472	L	GLCDv	20000
12.472	L	GLSDv	20000
12.472	L	MIRCL	20000
12.472	L	PLBOY	20000
12.472	L	SEXTV	20000
12.472	L	VENUS	20000
12.472	L	105FM	20000
12.472	L	960AM	20000
12.472	L	EDGE	20000
12.472	L	RIGA	20000
12.472	L	PLBOYV	20000
12.472	L	VENUSV	20000
12.486	R	CBC-W	20000
12.486	R	CBC-w	20000
●12.486	R	CBCaa	20000
12.486	R	CMT	20000
12.486	R	DOCU	20000
12.486	R	GOLF	20000
12.486	R	NEWS2	20000
●12.486	R	PPVu	20000
●12.486	R	PPVu*	20000
12.486	R	TECH	20000
12.486	R	TRAVL	20000
12.486	R	TVA-R	20000
12.486	R	VnBuy	20000
12.486	R	VNUS	20000
●12.486	R	Vu21	20000
12.486	R	VuCOM	20000
12.486	R	YTV-W	20000
12.486	R	YTVWV	20000
●12.486	R	NCAR1	20000
12.501	L	BOLD	20000
12.501	L	CFJC	20000
12.501	L	CMDYW	20000
12.501	L	DvCom	20000
12.501	L	NCAR	20000
●12.501	L	RCVu1	20000
12.501	L	RCVu1*	20000
●12.501	L	RCVu2	20000
12.501	L	RCVu2*	20000
12.501	L	SCRM	20000
12.501	L	SPEED	20000
12.501	L	TROPW	20000
12.501	L	VIBE	20000
12.501	L	Vu20	20000
12.501	L	W	20000
12.501	L	YTV-E	20000
12.501	L	FAN	20000
12.516	R	ABC-E	20000
12.516	R	CAN-V	20000
12.516	R	CBCNW	20000
12.516	R	GLB-w	20000
12.516	R	GLB-W	20000
12.516	R	M-XS	20000
12.516	R	MLB5	20000
12.516	R	NFL5	20000
12.516	R	NHL5	20000
12.516	R	SNETW	20000
12.516	R	SUPR3	20000
12.516	R	Vu31	20000
12.516	R	Vu8	20000
12.516	R	Vu9	20000
12.516	R	VuF8	20000
12.516	R	VuF9	20000
12.516	R	WFN	20000
12.516	R	GXY26	20000
12.516	R	GXY28	20000
12.516	R	GXY29	20000
12.516	R	GXY39	20000
12.516	R	GXY5	20000
12.516	R	GXY8	20000
12.516	R	METRO	20000
12.516	R	BTVM	20000
12.516	R	VUMAG	20000
12.530	L	ANQ	20000
12.530	L	CAN-E	20000
12.530	L	CAN-S	20000
12.530	L	LCN	20000
12.530	L	SRC-M	20000
12.530	L	TELEQ	20000
12.530	L	TQS-M	20000
12.530	L	TVA-M	20000
12.530	L	TVA-O	20000
12.530	L	CC-M	20000
12.530	L	CJAD	20000
12.530	L	CJPX	20000
12.530	L	CKAC	20000
12.530	L	METO	20000
12.530	L	PC-M	20000
12.545	R	CITYT	20000
12.545	R	CP24	20000
12.545	R	CTYDv	20000
12.545	R	FOX-E	20000
12.545	R	Kids	20000
12.545	R	KIDS*	20000
12.545	R	M	20000
●12.545	R	RCVu4	20000
12.545	R	RCVu4*	20000
12.545	R	SNETE	20000
12.545	R	Vu10	20000
12.545	R	Vu11	20000
12.545	R	VuF10	20000
12.545	R	VuF11	20000
12.545	R	VuF15	20000
12.545	R	VuF3	20000
12.545	R	CJRT	20000
12.559	L	CBC-V	20000
12.559	L	CBS-W	20000
12.559	L	COMM	20000
12.559	L	DvCBC	20000
12.559	L	M-FUN	20000
●12.559	L	MFEST	20000
12.559	L	NFL11	20000
12.559	L	RDI	20000
12.559	L	SLICE	20000
12.559	L	TSN	20000
12.559	L	Vu4	20000
12.559	L	VuF13	20000
12.559	L	VuPPV	20000
12.559	L	1200	20000
12.574	R	CBS-E	20000
12.574	R	D-KDS	20000
12.574	R	DvGLB	20000
12.574	R	GLB-V	20000
12.574	R	LEAFS	20000
12.574	R	MLB2	20000
●12.574	R	MRPIX	20000
12.574	R	MUCH	20000
12.574	R	NHL2	20000
12.574	R	Vu1	20000
12.574	R	Vu3	20000
12.574	R	Vu5	20000
12.574	R	VuF5	20000
12.574	R	GXY34	20000
12.574	R	GXY40	20000
12.574	R	GXY41	20000
12.574	R	GXY42	20000
12.574	R	GXY44	20000
12.574	R	STiS	20000
12.588	L	ARGNT	20000
12.588	L	ARTV	20000
12.588	L	cnpop	20000
12.588	L	MENTV	20000
12.588	L	Mystr	20000
12.588	L	RDS	20000
12.588	L	SRC-Q	20000
12.588	L	TVASa	20000
12.588	L	TVASh	20000
12.588	L	680am	20000
12.588	L	GXY1	20000
12.588	L	GXY15	20000
12.588	L	GXY16	20000
12.588	L	GXY17	20000
12.588	L	GXY43	20000
12.588	L	GXY9	20000
12.603	R	APTN	20000
12.603	R	BIO	20000
12.603	R	BPM	20000
12.603	R	CTS	20000
12.603	R	HNN	20000
●12.603	R	MTV2	20000
12.603	R	NCAA6	20000
12.603	R	NCAR3	20000
12.603	R	NFL10	20000
12.603	R	NHL9	20000
●12.603	R	RCVu5	20000
12.603	R	RCVu5*	20000
12.603	R	SHO-W	20000
12.603	R	TELAT	20000
12.603	R	Vu23	20000
12.603	R	VuF14	20000
●12.603	R	VuF16	20000
12.618	L	ACTN	20000
12.618	L	CHEX	20000
12.618	L	CRKT1	20000
12.618	L	DIVA	20000
12.618	L	DRVin	20000
12.618	L	FineL	20000
12.618	L	FTV	20000
12.618	L	NHLVu	20000
12.618	L	PEACH	20000
●12.618	L	RCVu6	20000
12.618	L	RCVu6*	20000
●12.618	L	RCVu7	20000
12.618	L	RCVu7*	20000
12.618	L	TFO	20000
12.618	L	Vu16	20000
12.618	L	AM640	20000
12.618	L	{Empty}	20000
12.632	R	A-BAR	20000
12.632	R	BARDv	20000
12.632	R	CBCNA	20000
12.632	R	CNBC	20000
●12.632	R	EVNTS	20000
12.632	R	GEO	20000
12.632	R	MVOLA	20000
12.632	R	NCAA2	20000
12.632	R	NFL7	20000
12.632	R	RIS	20000
12.632	R	SWAP	20000
12.632	R	TOONR	20000
12.632	R	Vu-F	20000
12.632	R	Vu12	20000
12.632	R	Vu29	20000
12.632	R	96FM	20000
12.647	L	BBC-C	20000
12.647	L	BBC-K	20000
12.647	L	BRAVO	20000
12.647	L	CBC-O	20000
12.647	L	CTV-E	20000
12.647	L	CTV-e	20000
12.647	L	KTLA	20000
12.647	L	NCAA3	20000
12.647	L	NEWS1	20000
12.647	L	NFL8	20000
●12.647	L	RCVu9	20000
●12.647	L	RCVu9*	20000
●12.647	L	TSN2	20000
12.647	L	TVA-G	20000
12.647	L	Vu13	20000
12.647	L	Vu18	20000
12.647	L	Vu28	20000
12.661	R	A-OTT	20000
●12.661	R	ACCES	20000
12.661	R	CMDY	20000
12.661	R	COMDv	20000
12.661	R	NFL12	20000
12.661	R	NHL-N	20000
●12.661	R	NHL6	20000
12.661	R	OTTDv	20000
●12.661	R	RCVu8	20000
12.661	R	RCVu8*	20000
12.661	R	SRC-A	20000
12.661	R	SUPR4	20000
12.661	R	TVO	20000
12.661	R	Vu17	20000
●12.661	R	Vu26	20000
●12.661	R	VuF12	20000
12.661	R	VuF2	20000
12.661	R	ALERT	20000
12.661	R	ALRT	20000
12.661	R	BFVSC	20000
●12.661	R	HDFRE	20000
12.661	R	LOCK	20000
●12.661	R	MOVHD	20000
●12.661	R	NETHD	20000
●12.661	R	SPLTY	20000
●12.661	R	SPRTH	20000
12.661	R	Vu*	20000
●12.661	R	Vu-F*	20000
12.661	R	Q107	20000
12.661	R	{Empty}	20000
12.676	L	ADR	20000
12.676	L	SRCSh	20000
12.676	L	TQS-Q	20000
12.676	L	TQSRL	20000
12.676	L	TQSSa	20000
12.676	L	TQSSh	20000
12.676	L	TVA-Q	20000
12.676	L	TVARL	20000
12.676	L	TVARN	20000
12.676	L	GXY12	20000
12.676	L	GXY13	20000
12.676	L	GXY14	20000
12.676	L	GXY22	20000
12.676	L	GXY24	20000
12.676	L	GXY6	20000
12.589	L	ARGNT	20000
12.589	L	ARTV	20000
12.589	L	cnpop	20000
12.589	L	MENTV	20000
12.589	L	Mystr	20000
12.589	L	RDS	20000
12.589	L	SRC-Q	20000
12.589	L	TVASa	20000
12.589	L	TVASh	20000
12.589	L	680am	20000
12.589	L	GXY1	20000
12.589	L	GXY15	20000
12.589	L	GXY16	20000
12.589	L	GXY17	20000
12.589	L	GXY43	20000
12.589	L	GXY9	20000

GALAXY 28
271.0 East (89.0 West)

Freq GHz	Pol	Channel Name	Symbol rate
3.997	H	News	3680
3.997	H	Pacific	3680
3.997	H	Sports	3680
4.060	H	AFN Family	28000
4.060	H	AFN Freedom	28000
4.060	H	AFN Movie	28000
4.060	H	AFN News	28000
4.060	H	AFN Prime Atlantic	28000
4.060	H	AFN Prime Pacific	28000
4.060	H	AFN Spectrum	28000
4.060	H	AFN Sports	28000
4.060	H	AFN Xtra	28000
4.060	H	Atlantic 2	28000
4.060	H	Atlantic 3	28000
4.060	H	Atlantic 4	28000
4.060	H	Atlantic 5	28000
4.060	H	Atlantic 6	28000
4.060	H	Atlantic 7	28000
4.060	H	Atlantic 8	28000
4.060	H	Atlantic 9	28000
4.060	H	Engineering Channel	28000
4.060	H	Adult Rock	28000
4.060	H	AFN Back-up for A	28000
4.060	H	AFN Back-up to AFN	28000
4.060	H	AFN Back-up to AF	28000
4.060	H	AFN Program Guide	28000
4.060	H	AFN Radio Variable	28000
4.060	H	Backhaul from Baghda	28000
4.060	H	Backhaul to Japan	28000
4.060	H	Bright AC	28000
4.060	H	Contingency (Closed	28000
4.060	H	ESPN Plus	28000
4.060	H	Fox Sports Talk	28000
4.060	H	Hot AC	28000
4.060	H	Interruptable Voice	28000
4.060	H	Mainstream Country	28000
4.060	H	NPR International	28000
4.060	H	Oldies	28000
4.060	H	SMPTE Time Code	28000
4.060	H	The Pentagon Channel	28000
4.060	H	The Touch	28000
4.060	H	U/I Split /UIVoice	28000
4.060	H	Uninterruptable Voic	28000
4.060	H	Z-Rock (ABC Altern	28000
4.140	H	Crawford HD 1	29270

North America
GALAXY 28
271.1 East (88.9 West)

Freq GHz	Pol	Channel Name	Symbol rate
11.734	H	Channel 300	4500
11.734	H	Channel 301	4500
11.734	H	Channel 302	4500
11.734	H	Channel 303	4500
11.734	H	Channel 304	4500
11.734	H	Channel 1	4500
11.758	V	TRAVERTINE	26000
11.780	H	BTV-1	29000
11.780	H	BTV-2	29000
11.780	H	BTV-3	29000
11.780	H	BTV-4	29000
11.780	H	NorthAmericaBkup	29000
11.820	H	Unknown	30000
11.882	H	Service 1	4883
11.900	H	HughesNet	30000
11.920	V	Unknown	30000
11.925	H	ABC Feed	3978
11.955	V	ABC NEWS NOW	19533
11.955	V	ABSAT CH2	19533
11.955	V	NEWS1 LIVE	19533
11.960	V	ABC NEWS NOW	3978
11.965	V	ABC Feed (ABC SCP	3978
11.965	H	ABC Feed (Service 1)	3978
11.970	H	ABC Feed (WEWS DS	3978
11.975	H	ABC Feed (Service 2)	3978
11.975	V	ABC Feed (Tandberg	3978
11.980	H	ABC Feed (Service 2)	3978
11.989	V	ABC Feed	6111
11.990	H	ABC Feed (WMUR-TV	3978
12.009	V	ABC Feed	6111
12.043	H	Unknown	6111
12.046	H	ABC Feed	6489
12.054	H	Unknown	6510
12.060	H	TRAVERTINE	26600
12.076	H	Service 2	4883
12.080	V	HughesNet	30000
12.170	H	Feed	15914
12.185	H	ABC Feed (WMTW 207	3979
12.195	H	ABC Feed (WBAL 1)	3979

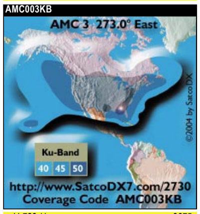
South America
GALAXY 28
271.2 East (88.8 West)

Freq GHz	Pol	Channel Name	Symbol rate
11.882	H	Service 1	4883
11.960	H	19 - Home & Health	28800
11.960	H	20 - IIGD	28800
11.960	H	21 - CJC	28800
11.960	H	22 - RTPI	28800
11.960	H	23 - Climatempo	28800
●11.960	H	24 - Band Sport	28800
11.960	H	25 - Discovery Turbo	28800
11.960	H	26 - TCM	28800
11.960	H	27 - Animal Planet	28800
11.960	H	28 - ESPN Brasil	28800
11.960	H	29 - Travel & Living	28800
11.960	H	30 - WooHoo	28800
11.960	H	31 - Ra Tim Bum	28800
11.960	H	32 - Hallmark	28800
11.960	H	33 - Discovery Scien	28800
11.960	H	34 - Disc. Civilizat	28800
11.960	H	35 - NatGeo	28800
11.960	H	36 - TVE	28800
●12.000	H	01 - RIT	28800
12.000	H	02 - RIT Noticias	28800
12.000	H	03 - SOS Espiritual	28800
●12.000	H	04 - TV Escola	28800
12.000	H	05 - Nuestra TV	28800
●12.000	H	06 - DW TV	28800
●12.000	H	07 - TV Enlace	28800
●12.000	H	08 - Terra Viva	28800
12.000	H	09 - Bandeirantes	28800
12.000	H	10 - Fox Life	28800
12.000	H	11 - Bloomberg	28800
12.000	H	12 - Boomerang	28800
12.000	H	13 - Discovery Chann	28800
12.000	H	14 - Discovery Kids	28800
12.000	H	15 - Disney Channel	28800
12.000	H	16 - ESPN Internatio	28800
12.000	H	17 - TNT	28800
12.000	H	18 - CNN Espanhol	28800
●12.000	H	19 - Home & Health	28700
●12.000	H	20 - IIGD	28700
●12.000	H	21 - CJC	28700
●12.000	H	22 - RTPI	28700
●12.000	H	23 - Climatempo	28700
●12.000	H	25 - Discovery Turbo	28700
●12.000	H	26 - TCM	28700
●12.000	H	27 - Animal Planet	28700
●12.000	H	28 - ESPN Brasil	28700
●12.000	H	29 - Travel & Living	28700
●12.000	H	30 - WooHoo	28700
●12.000	H	31 - Ra Tim Bum	28700
●12.000	H	32 - Hallmark	28700
●12.000	H	33 - Discovery Scien	28700
●12.000	H	34 - Disc. Civilizat	28700
●12.000	H	35 - NatGeo	28700
●12.000	H	36 - TVE	28700
●12.000	H	24 - Band Sports	28700
●12.000	H	Service 1	28700
●12.134	H	Television 1	4000

AMC 3
273.0 East (87.0 West)
AMC003CB

Freq GHz	Pol	Channel Name	Symbol rate
3.719	H	Michigan Government	4167
3.732	H	APTN3 +442074827430	5632
3.744	H	Michigan Government	3520
3.810	V	A copy of A copy of	14000
3.810	V	A copy of Test Chann	14000
3.810	V	FSN alt programming	14000
3.810	V	MSC m	14000
3.810	V	MSC w	14000
3.830	V	BALT DMA Blackout	14000
3.830	V	CSN Alternate Channe	14000
3.830	V	CSN Alternate Channe	14000
3.830	V	CSN Baltimore	14000
3.830	V	CSN Baltimore 202	14000
3.830	V	CSN Beckley/Bluefi	14000
3.830	V	CSN Charlottesvill	14000
3.830	V	CSN Harrisburg Wiz	14000
3.830	V	CSN Harrisburg/Yor	14000
3.830	V	CSN Harrisonburg V	14000
3.830	V	CSN International/Ph	14000
3.830	V	CSN Media Pool	14000
3.830	V	CSN Norfolk VA	14000
3.830	V	CSN Philly, PA	14000
3.830	V	CSN Richmond VA	14000
3.830	V	CSN Roanoke VA	14000
3.830	V	CSN Salisbury	14000
3.830	V	CSN Tri-Cities VA	14000
3.830	V	CSN Washington	14000
3.830	V	Independance/Stuart	14000
3.837	H	Supercanal Caribe	3617
3.844	H	Horse Racing TV	3024
4.043	H	Ambassador 1	7140
4.043	H	Ambassador 2	7140
4.043	H	Focus on the Family	7140
4.043	H	Focus on the Family	7140
4.043	H	Focus on the Family	7140
4.043	H	Info Radio Net	7140
4.043	H	Moody Bible Radio 1	7140
4.043	H	Moody Bible Radio 2	7140
4.043	H	Salem Radio Network	7140
4.043	H	Salem Radio Network	7140
4.043	H	Salem Radio Network	7140
4.043	H	Salem Radio Network	7140
4.043	H	Salem Radio Network	7140
4.043	H	Salem Radio Network	7140
4.106	H	ZNS TV Bahamas	6150
4.118	H	PBS NY	9300
4.118	H	WPIX	9300
4.118	H	WWOR	9300
4.118	H	DEFAULT	9300
4.132	H	WNET-TV	9300
4.174	H	SG Test Card	3024

AMC003KB



Freq GHz	Pol	Channel Name	Symbol rate
11.723	H		3675
11.736	V	AR/FRN	6102
11.736	V	ENGLISH	6102
11.736	V	INFO.	6102
11.736	V	UR/ENG	6102
11.736	V	URDU	6102
11.800	H	Unknown	30000
11.821	V	AR/FRN	10000
11.956	H	Entertainment,Reques	21000
11.956	H	Live Events	21000
11.956	H	Marketsource	21000
11.956	H	Newsource Main	21000
11.974	H	GPTV feeds (Channe	6000
12.009	V	AR/FRN	5000
12.098	V	Service 2	4340
12.140	V	Unknown	30000
12.144	H	Montana PBS Feed (	4340
12.157	H	Unknown	4444
12.169	H	Service 2 SD	4444
12.180	V	Unknown	30000
11.736	V	ARABIYA	8333
11.736	V	ARB-TR	8333
11.736	V	BNG-TR	8333
11.736	V	ENG-TR	8333
11.736	V	FRN-TR	8333
11.736	V	INFOCAST	8333
11.736	V	MTA+3	8333
11.736	V	MTAOne	8333
11.957	H	Entertainment,Reques	21000
11.957	H	Live Events	21000
11.957	H	Newsource Main	21000
11.975	H	Channel 5 - Washingt	6000

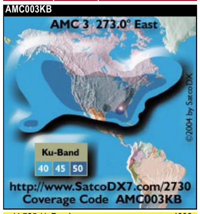
AMC 2 , AMC 16
275.0 East (85.0 West)
AMC002KB

Freq GHz	Pol	Channel Name	Symbol rate
11.987	H	SATELLINK	13021
12.167	V	502-262-7148 SABI	12500
12.186	H	STS 3 Encoder 1	14030

C-Band: BRASILSAT B3
276.0 East (84.0 West)

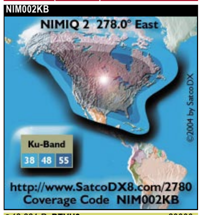
Freq GHz	Pol	Channel Name	Symbol rate
3.698	V	TV Catolica Cancao N	4280
3.698	V	Radio Cancao Nova	4280
3.700	V	TV Sul America	3333
3.705	H	TV SERRA DOURADA	4278
3.705	H	TV Serra Dourada	4278
3.710	V	Assemblia Sao Paulo	12960
3.710	V	Cine Brasil TV	12960
3.710	V	Teleconferencia Chan	12960
3.710	V	TV Cultura Sao Paulo	12960
3.710	V	TV Ra-Tim-Bum	12960
3.710	V	Radio Cultura AM	12960
3.710	V	Radio Cultura FM	12960
3.716	H	TV Grande Minas	4000
3.724	V	Radio Pentacostal De	2075
3.724	H	TV Mirante	4412
3.724	H	Mirante FM	4412
3.732	V	audio	3214
3.732	V	TV Radio Clube	3214
3.736	H	TV Sul Fluminense	3330
3.736	H	Radio Sul Fluminense	3330
3.738	V	TV Morena	4708
3.745	V	Net Cable TV promo	3110
3.747	H	Canal Audio	4299
3.747	H	Rede Nacional	4299
3.753	H	RBA Sat	3563
3.753	H	Radio Clube - Belem	3563
3.757	H	TV Cidade Verde	3563
3.765	H	TV Net	4285
3.765	H	TVE Bahia	4285
3.765	H	Radio Educadora FM	4285
3.768	V	Test Card	8000
3.768	V	Rede STV	8000
3.768	V	Teleconferencia	8000
3.769	H	TV Horizonte	3333
3.769	H	Radio Cultura AM	3333
3.776	H	TV Palmas	3327
3.781	V	TV Taroba	3330
3.791	V	TV Assembleia Legi	3330
3.825	H	Rede Mundial TV	3002
3.844	H	Feeds (NoName)	3213
3.848	H	Internacional	10127
3.848	H	Nacional	10127
3.848	H	Regional	10127
3.848	H	TV Cancao Nova (Inte	10127
3.848	H	TV Cancao Nova (Naci	10127
3.848	H	TV Cancao Nova (Regi	10127
3.856	H	Canal Audio	4295
3.856	H	Rede Nacional	4295
3.858	V	KTV	4289
3.858	V	Rio de Janeiro	4289
3.858	V	VIDEOCOM	4289
3.866	H	Record Belem	4423
3.866	H	Rede Record-PA	4423
3.871	H	Rede Record-RJ	4433
3.877	H	Rede Familia	4450
3.889	H	Rede Record-BA	4440
3.895	H	Rede Record-GO	4430
3.906	H	TV Gazeta	3929
3.911	V	TV Sul Bahia	3255
3.912	H	RD IELF-1	3617
3.912	H	RD IELF-2	3617
3.916	H	TV Campo Grande MS	3255
3.921	H	TV Genesis	3255
3.924	V	TV Damasio	1808
3.926	V	TV Aratu Da Bahia	3255
3.931	H	Galeria de Artes	3255
3.933	V	Bandeirantes - Bahia	3255
3.936	V	Medalhao Persa fe	3255
3.936	H	MEDALHAO PERSA-PR	3255
3.936	H	TV Exclusiva	3255
3.941	V	REDE SUPER	3255
3.941	V	Rede Super	3255
3.944	V	TV Assembleia Gaucha	1808
3.951	V	Rede Brasileira de I	4340
3.955	V	TV Tribuna	4340
3.967	V	Mix TV Regional	2170
3.970	V	5	4445
3.970	V	TV Educativa do Ri	4445
3.970	V	Radio FM Cultura 107	4445
3.986	V	Cine Brasil	3255
3.989	V	CBS TV	2666
4.013	V	TV Educativa	3255
4.054	V	Teve Shop Cachoeria	1287
4.060	V	TV Justica	3330
4.075	V	CNT	4444
4.087	H	Band 1	17200
4.087	H	Band 2	17200
4.087	H	Band News	17200
4.087	H	Band Sports	17200
4.087	H	Rede 21	17200
4.087	H	Band AM	17200
4.087	H	Band FM	17200
4.087	H	RADIO A	17200
4.087	H	RADIO B	17200
4.087	H	RADIO C	17200
4.087	H	RADIO D	17200
4.087	H	RADIO E	17200
4.133	V	TV Assembleia Legi	2531
4.151	H	Pucsat Rio Grande do	1808
4.153	V	Praetorium Sat	1851
4.155	V	Sexy TV	2169
4.155	V	SEXY TV	2169
4.167	H	TV Educon	3255
4.169	V	TV Basa	8140
3.688	V	Canal 21	2308
3.697	H	Rede Cig	1808

AMC 9
277.0 East (83.0 West)
AMC003KB



Freq GHz	Pol	Channel Name	Symbol rate
11.725	H	Feed	4232
11.749	H	Feed (QWndberg Servi	4232
11.752	H	Feed (DIGITAL SNG	4232
11.752	H	Feed (KNTV90 P1)	4232
11.756	H	Feed (DIGITAL SNG	4232
11.756	H	Feed (KF0R SNG UN	4232
11.762	H	Feed (1)	4232
11.762	H	Feed (DIGITAL SNG	4232
11.768	H	Feed (Tandberg Servi	4232
11.772	H	Feed (AMC 9/3F)	4232
11.772	H	Feed (DIGITAL SNG	4232
11.774	H	Feed (AMC 9/3F)	4232
11.778	H	Feed (DIGITAL SNG	4232
11.790	H	Feed (WSMV)	4232
11.845	H	Feed	17800
12.140	V	Feed ({Empty Name})	30000

North America
NIMIQ 2
278.0 East (82.0 West)
NIM002KB



Freq GHz	Pol	Channel Name	Symbol rate
●12.224	R	BTVH2	20000
12.224	R	CKPG	20000
12.224	R	FAIR	20000
12.224	R	FAIRM	20000
12.224	R	FAIRW	20000
12.224	R	PUNCH	20000
12.224	R	RTVi+	20000
12.224	R	S+L	20000
12.224	R	SLN	20000
12.224	R	SLVSC	20000
12.224	R	TALNT	20000
12.224	R	DW-R1	20000
12.224	R	DW-R2	20000
12.239	L	ALPHA	20000
12.239	L	B4U	20000
12.239	L	BINGO	20000
12.239	L	CBCTK	20000
12.239	L	DW-TV	20000
12.239	L	EWTN	20000
12.239	L	HPI-C	20000
12.239	L	HPI-I	20000
12.239	L	HPI-W	20000
12.239	L	MEGA	20000
12.239	L	OMNBC	20000
12.253	R	ATN	20000
12.253	R	BITE	20000
12.253	R	CBCTB	20000
12.253	R	CTVTB	20000
12.253	R	E!MTL	20000
12.253	R	GMA	20000
12.253	R	MILIT	20000
12.253	R	Ntv	20000
12.253	R	SRC-E	20000
12.253	R	TLNE	20000
12.253	R	91,9	20000
12.253	R	AMB	20000
12.253	R	UPRIX	20000
12.268	L	ARY	20000
12.268	L	CBN	20000
12.268	L	CKWS	20000
12.268	L	CPJC*	20000
12.268	L	CTV-K	20000
12.268	L	GTV	20000
12.268	L	HPI-1	20000
12.268	L	NDTV	20000
12.268	L	SKYTG	20000
12.268	L	SKYWY	20000
12.268	L	TvPOL	20000
12.268	L	GXY19	20000
12.268	L	GXY25	20000
12.268	L	GXY27	20000
12.268	L	GXY35	20000
12.268	L	GXY37	20000
12.268	L	POLR1	20000
12.282	R	AOV	20000
12.282	R	AOV-M	20000
12.282	R	CHAT	20000
12.282	R	ERT	20000
12.282	R	HPI-2	20000
12.282	R	ODYS1	20000
12.282	R	PHNIX	20000
12.282	R	RTVi	20000
12.282	R	Sony	20000
12.282	R	TAMIL	20000
12.282	R	TVI	20000
12.282	R	POLR3	20000
12.297	L	BTVHD	20000
●12.297	L	ExVu1	20000
12.297	L	iTV1	20000
12.297	L	iTV5	20000
12.297	L	iTV6	20000
12.297	L	iTV7	20000
12.297	L	iTV9	20000
12.297	L	NOVA	20000
12.297	L	NOVA*	20000
12.297	L	VuTV	20000
12.297	L	VuTV3	20000
12.297	L	VuTV5	20000
12.311	R	BTVH2	20000
●12.341	R	RDSHD	20000
12.341	R	SRCHE	20000
12.355	L	PBSHW	20000
12.355	L	SCHD2	20000
12.355	L	SCRHD	20000
12.370	R	CBCHW	20000
12.370	R	MCHD2	20000
12.370	R	CTYHE	20000
12.384	L	HDVu1	20000
12.384	L	HDVu2	20000
12.384	L	VuFHD	20000
12.384	L	VuHD1	20000
12.384	L	VuHD2	20000
●12.384	L	DISHD	20000
●12.384	L	DISHD*	20000
12.399	R	FOXHW	20000
12.399	R	NBCHW	20000
●12.399	R	NHLH1	20000
12.414	L	APTNH	20000
●12.414	L	APTNH*	20000
12.414	L	NBCHE	20000
●12.414	L	NBCHE*	20000
●12.414	L	ABCHE	20000
●12.414	L	ABCHE*	20000
12.428	R	SHWHD	20000
12.428	R	WGNHD	20000
12.428	R	MLBH3	20000
12.428	R	NFLH6	20000
●12.428	R	NHLH2	20000
●12.443	L	TLCHD	20000
12.443	L	TSNHD	20000
●12.443	L	TSNHD*	20000
12.457	R	OASIS	20000
12.457	R	TRESR	20000
12.457	R	SN-HD	20000
12.472	L	M-HD	20000
●12.472	L	M-HD*	20000
●12.472	L	SNHD2	20000
●12.472	L	SNHD2*	20000
●12.486	R	FOXHE	20000
●12.486	R	VuFH3	20000
●12.486	R	VuHD5	20000
●12.486	R	HDEDM	20000
12.501	L	CTVHE	20000
●12.501	L	CTVHE*	20000
12.501	L	MPXHD	20000
●12.501	L	MPXHD*	20000
12.501	L	MLBH2	20000
●12.501	L	NHLH3	20000
●12.501	L	NHLH3*	20000
12.516	R	SEHD	20000
12.516	R	D-HD	20000
12.516	R	Z-HD	20000
12.530	L	TQSHD	20000
12.530	L	TVAHD	20000
●12.530	L	TVAHD*	20000
●12.530	L	TQSHD*	20000
●12.530	L	VRKHD	20000
●12.530	L	VRKHD*	20000
12.545	R	PBSHE	20000
●12.545	R	GLBHW	20000
●12.545	R	MLBH6	20000
12.545	R	NCAA7	20000

TV Digital — **Radio** Digital — **TV** Digital Crypt — **Radio** Digital Crypt — **TV** High Definition — **TV** High Definition Crypt

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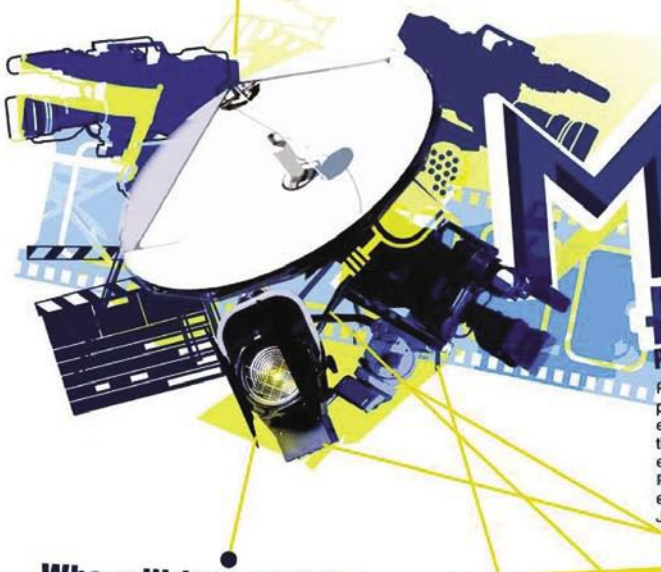

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- **Broadcast and production equipment and technology providers:** Camera, lighting, audio equipment, broadcast equipment, system (including OB vans), automation, management, production and post production equipment and service providers, Computer graphics software and equipment, Motion picture products and services

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- **Computer graphics/special effects and animation /production specialists**
- **Internet, mobile, web service and streaming media service providers**
- **System integrators**
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12.545 R NSCH1 20000
12.559 L A&EHD* 20000
12.559 L DLRHD 20000
12.559 L HDVu4 20000
12.559 L VuHD4 20000
12.559 L A&EHD 20000
12.559 L HDVAN 20000
12.559 L NFLH5 20000
12.574 R GEOHD 20000
12.574 R CBSHE 20000
12.589 L RUSH 20000
12.589 L RUSH* 20000
12.589 L HDNET 20000
12.589 L HDNET* 20000
12.589 L NFLH1 20000
12.589 L NFLH1* 20000
12.589 L SNHD3 20000
12.603 R GLBHE 20000
12.603 R SCHD1 20000
12.603 R NHLH4 20000
12.603 R MLBH1 20000
12.603 R NFLH3 20000
12.604 R GLBHE 20000
12.604 R SCHD1 20000
12.604 R NHLH4 20000
12.604 R MLBH1 20000
12.604 R NFLH3 20000
12.618 L CTVHW 20000
12.618 L CTVHW* 20000
12.618 L HBOH1 20000
12.618 L HBOH1* 20000
12.618 L MLBH5 20000
12.618 L NCAA8 20000
12.618 L NCAA8* 20000
12.618 L NSCH2 20000
12.618 L SNHD4 20000
12.632 R S+HD 20000
12.632 R VIEHD 20000
12.632 R HSTHD 20000
12.647 L CBSHW 20000
12.647 L CBSHW* 20000
12.647 L HBOH2 20000
12.647 L HBOH2* 20000
12.647 L RAPHD 20000
12.647 L RAPHD* 20000
12.661 R IMAG2 20000
12.661 R NCHD 20000
12.661 R TSN2H 20000
12.661 R IMAG3 20000
12.661 R IMAG1 20000
12.676 L EQATR 20000
12.676 L EQATR* 20000
12.676 L VuHD3 20000
12.676 L ABCHW 20000
12.676 L ABCHW* 20000
12.676 L HDVu3 20000
12.676 L NFLH4 20000
12.676 L VuFH1 20000
12.677 L EQATR* 20000
12.677 L HDVu3 20000
12.677 L VuFH1 20000
12.677 L VuHD3 20000
12.677 L ABCHW 20000
12.677 L ABCHW* 20000
12.677 L EQATR 20000
12.677 L NFLH4 20000

C-Band: SATCOM C3
281.0 East (79.0 West)
11.111 V Test Channel

GALAXY 17
288.0 East (74.0 West)
11.733 H Service 1 6616
11.796 V OLN HD PRIMARY 24741
11.840 H Unknown 30000
11.911 H ENC 1 13235
11.911 H ENC 2 13235
11.911 H UFC64 13235
11.920 H Feed 14143
11.936 V Feed (Tribune 5/6) 4297
11.936 V Feed ({Empty Name}) 4297
11.952 H Feed 3978
11.952 H Feed (NEWS 12 WE 3978
11.954 V Feed (KTLA Single 4297
11.954 V Feed (WPIX KU 2 SA 4297
11.954 V Feed ({Empty Name}) 4297
11.958 V Feed (Tribune 5/6) 4297
11.958 V Feed (WPIX_TV) 4297
11.958 V Feed ({Empty Name}) 4297
11.959 H CHEESESTEAK 1 13235
11.959 H PSSI 13235
11.959 H SCOPUS-NET-TECH 13235
11.959 H Signal 3 Channel 3 13235
11.959 H SURE SHOT ENC1 13235
11.964 V Tribune DC 4297
11.975 H Crawford T5_A 13235
11.975 H Tandberg Service 13235
11.977 V Feed 6111
11.977 V Feed (Service 2) 6111
11.977 V Feed (WTVT TAMPA) 3978
11.977 V Feed ({Empty Name}) 6111
11.979 H Feed (NEWS 12 LI/I 3978
11.979 H Feed (NEWS_12 _NJ) 3978
11.986 V Feed 6111
11.987 H Feed (NEWS 12 CT) 3978
11.987 H Feed (WDAF SNG) 3978
12.000 H Unknown 30000
12.002 V NEW ORLEANS PATH 3200
12.009 V SATOPS NETU15 6890
12.009 V SATOPS NETU16 6890
12.009 V SATOPS NETU18 6890
12.009 V SATOPS NETU19 6890
12.029 H Feed (Auto 9MHz) 4492
12.033 V NBC Feed (AMC-1/9 4232
12.033 V NBC Feed (NBC SAT 4232
12.033 V NBC Feed (PEAK) 4232
12.033 V NBC Feed (SATELLI 4232
12.037 H Feed (DIRECT BR0A 4492

AMC 6
288.0 East (72.0 West)
AMC006CB

3.934 V WRBJ-TV 8681
3.934 V WZRB-TV 8681
3.994 V PA CABLE NETWORK 4167
4.040 V HQ4 26665
4.040 V HQ1 26665
4.040 V HQ2 26665
4.040 V HQ3 26665
3.953 V PA CABLE NETWORK 4167

NAHUEL 1A
288.2 East (71.8 West)
NAH001K1

11.649 V Canal 7 3700
11.680 V La Pampa 3385
11.692 V Canal 9 3385
11.692 V TV Santa Cruz 3385
11.692 V Radio Provincia Del 3385
11.817 V Canal Rural Satelita
11.865 H Valparaiso Sporting 3000
11.954 V Canal 10 17910
11.954 V Monte Carlo TV 17910
11.954 V Red de TV Color 17910
11.954 V Teledoce 17910
11.954 V TVE Internacional Am 17910
11.954 V Tveo TV Nacional 17910
11.954 V Concierto FM 17910
11.954 V CX 6 Sodre 17910
11.954 V Radio Carve 17910
11.954 V Radio Cero 17910
11.954 V X FM 17910
11.997 V CM El Canal de la Mu 8476
11.997 V Cronica TV 8476
12.180 V Canal 7 Santiago 4201

NAH001K3

11.478 V TV Libre 2220
11.585 V Canal 11 3700
11.603 V Canal 27 Guatemala 3600
11.611 V Unsion Equador 3400
11.626 V Canal 48 Honduras 3600
11.633 V Conexion 31 Promos 3600
11.633 V Nahuel Promos 3600
11.675 V TV Libre Uruguay 3600
11.708 V Canal Rural Satelita 12000
11.708 V Conexion Educativa 12000
11.708 V Nahuel Promos 12000
11.708 V SEMSAT - Sembrando 12000
11.739 V Red Media Educativa 1482
11.949 H Hipodromo 4688

C-Band: BRASILSAT B4
290.0 East (70.0 West)
BRA0B1CN

3.820 V ACTION 27500
3.820 V CULT 27500
3.820 V EMOTION 27500
3.820 V Feeds 27500
3.820 V Multishow 27500
3.820 V MULTISHOW 27500
3.820 V PIPOCA 27500
3.820 V PREMIERE4 27500
3.820 V PREMIUM 27500
3.820 V Telecine Action 27500
3.820 V Telecine Classic 27500
3.820 V Telecine Emotion 27500
3.820 V Telecine Happy 27500
3.820 V Telecine Premium 27500
3.820 V CCP DOWNLOAD 27500
3.820 V DCP DOWNLOAD 27500
3.820 V VC for ENC1P10 27500
3.820 V VC for ENC1P8 27500
3.820 V VC for ENC1P9 27500
3.875 V TV RECORD SP 5926
3.900 V BRASIL 27500
3.900 V Canal Brazil 27500
3.900 V Feeds 27500
3.900 V feeds 27500
3.900 V Globo News 27500
3.900 V GLOBONEWS 27500
3.900 V GNT 27500
3.900 V PREMIERE5 27500
3.900 V PREMIERE6 27500
3.900 V Sexy Hot 27500
3.900 V SEXYHOT 27500
3.900 V UNIVERSAL 27500
3.900 V USA Network Brazil 27500
3.900 V VC for ENC2P10 27500
3.900 V VC for ENC2P8 27500
3.900 V VC for ENC2P9 27500
3.940 V CANAL 7 27500
3.940 V Feeds 27500
3.940 V Premiere 1 27500
3.940 V Premiere 2 27500
3.940 V Premiere 3 27500
3.940 V SporTV 27500
3.940 V CANAL 6 27500
3.940 V CCP Download (sistem 27500
3.940 V DCP Download (sistem 27500
3.955 H TV Ceara-Educativa 4400
3.964 H TV MUNDO MAIOR 1328
3.965 V TV ESCOLA 2930
3.965 V TV Escola 2930
3.973 V Biblioteca Digital M 4030
3.978 V Cine Brasil 1220
3.978 V CBED CH2 3616
3.979 V REDE CBED 3616
3.981 V TV CBED 1808
3.984 H Rede Nacional 1808
3.984 H Test Card 1808
4.010 H ESPN Brasil 13021
4.010 H ESPN Brasil Altern 13021
4.010 H MTV 2 13021
4.010 H MTV Brasil 13021
4.040 H Animal Planet 30000
4.040 H Band News 30000
4.040 H Band Sports 30000
4.040 H Boomerang 30000
4.040 H Canal Brasil 30000
4.040 H Cartoon Network 30000
4.040 H Discovery Channel 30000
4.040 H Discovery Kids 30000
4.040 H People & Arts 30000
4.040 H TCM 30000
4.040 H Teste 30000
4.040 H TNT 30000
4.040 H Climatempo 30000
4.047 V TV Amazonas 7150
4.047 V Amazon Sat 7150
4.047 V Amazonas FM 7150

BRA0B1CR

3.628 H TV Camara 3000
3.628 H Radio Camara FM 3000
3.634 H TV Seculo 21 4500
3.642 H NGT 3263
3.645 V TV Senado 3213
3.645 V Radio Senado FM 3213
3.648 H TV Liberal 4285
3.648 H Canal dois (AM/FM) 4285
3.648 H Radio Liberal AM 4285
3.648 H Radio Liberal FM 4285
3.650 H Rede Transporte 4400
3.656 H TV Brasil Central 3392
3.656 V TV Meio Norte 4463
3.656 H Empty audio channel 3392
3.656 V Radio Brasil Sat 4463
3.656 V Radio Brasil Sat FM 4463
3.663 V Unnamed 4607
3.663 V TV Bahia 4607
3.663 V Rede Tropicalsat 4607
3.665 H Rede Bandeirantes Mi 4700
3.665 H Band FM de Minas Ger 4700
3.672 V TV Alterosa 8454
3.672 H TV Centro America 4713
3.672 V Radio Guarani FM 8454
3.680 H Rede Globo Minas Ger 6000
3.685 H Rede Vida Feeds 4500
3.688 H Rede Globo Sao Paolo 6000
3.696 H Rede Minas 3598
3.696 H Radio Inconfidencia 3598
3.703 V TV Difusora do Maran 3250
3.703 V Difusora FM-AM 3250
3.708 V TV Mirante 3250
3.708 V Radio Mirante AM 3250
3.708 V Radio Mirante FM 3250
3.714 V Rede Record Minas Ge 4400
3.714 V Service 1 4400
3.714 V Rede Aleluia Minas G 4400
3.752 V SBT 6220

C-Band: BRASILSAT B2
295.0 East (65.0 West)
3.706 H BAND Pres.Prudente 2462
3.721 H TV BB 1 2963
3.721 H TV Banco do Brasil C 2963
3.736 H Service 2 4285
3.736 H Radio Boas Novas 4285
3.746 H RBN-REDE 3540
3.746 H Rede Boas Novas 3540
3.766 H Canal Futura 3335
3.766 H Service 1 3335
3.792 V Radio Gazeta 3393
3.792 V TV Gazeta MT 3393
3.847 H TV Tibagi 4444
3.864 H Canal do Boi Sertaoz 3214
3.876 V NBR TV 4688
3.876 V Radio Nacional AM 4688
3.876 V Radio Nacional FM 4688
3.877 V TV TAROBA 2740
3.884 H BAND Presidente Pr 2800
4.008 H TV Rodolink 3332
4.105 V CANAL DO BOI - 2T 4285
4.112 V NoName 4285

North-East South America
ESTRELA DO SUL 1
297.0 East (63.0 West)
EST001KB

11.955 H CPC - Curso Prepar 2199
12.088 H LORAL BR 3214

South-West South America
ESTRELA DO SUL 1
297.1 East (62.9 West)
11.577 V VTR-1 3124
11.581 V VTR-2 3125
11.598 V VIA X 3124
11.603 V ZONA LATINA 3124
11.640 V Business TV 18099
11.640 V Camara Diputados 18099
11.640 V Canal 13 18099
11.640 V MEGA 18099
11.640 V Chilevision 18099
11.640 V Senado 18099
11.640 V Teletrak 18099
11.640 V Test Radio 18099

North America
ECHOSTAR 3, RAINBOW 1
298.5 East (61.5 West)
12.328 L ALARA 20000
12.328 L ARYDI 20000
12.328 L B4UMU 20000
12.328 L BRDGS 20000
12.328 L BTV 20000
12.328 L DUBAI 20000
12.328 L ESC-1 20000
12.328 L FUTUR 20000
12.328 L IQRAA 20000
12.328 L ITVN 20000
12.328 L MLODY 20000
12.328 L NILE 20000
12.328 L PTV 20000
12.328 L SPORT 20000
12.328 L STAR+ 20000
12.355 L 3ABN 20000
12.355 L ALMA 20000
12.355 L APUNJ 20000
12.355 L ARTMV 20000
12.355 L ARTS 20000
12.355 L EDUCA 20000
12.355 L GSN 20000
12.355 L HHS 20000
12.355 L PAEC 20000
12.355 L PFC 20000
12.355 L PNTGN 20000
12.355 L STARF 20000
12.355 L D61.5 20000
12.355 L ECC 20000
12.355 L SMART 20000
12.384 L AAJTK 20000
12.384 L ABUDA 20000
12.384 L B4U 20000
12.384 L DREAM 20000
12.384 L GEONW 20000
12.384 L HT 20000
12.384 L INDMU 20000
12.384 L INDVI 20000
12.384 L NORST 20000
12.384 L SAMAY 20000
12.384 L SHARA 20000
12.384 L ZCINE 20000
12.384 L ZEESA 20000
12.414 L BSN 20000
12.414 L ERT 20000
12.414 L EURNS 20000
12.414 L HTBA 20000
12.414 L KINO 20000
12.414 L NBN 20000
12.414 L NEWTV 20000
12.414 L RTVI 20000
12.414 L RTVI+ 20000
12.414 L STAR1 20000
12.414 L TVCI 20000
12.414 L TVN24 20000
12.414 L ZEETV 20000
12.414 L ERA-5 20000
12.414 L NT105 20000
12.472 L ANTEN 20000
12.472 L ANTGO 20000
12.472 L ART 20000
12.472 L BTV 20000
12.472 L GLOBO 20000
12.472 L KBS 20000
12.472 L RBTI 20000
12.472 L RCORD 20000
12.472 L SET 20000
12.472 L SETA 20000
12.472 L SETMX 20000
12.472 L TVASA 20000
12.472 L TVJPN 20000
12.472 L ANTRA 20000
12.472 L ARTMU 20000
12.472 L ERASP 20000
12.472 L SSPFM 20000
12.603 R HDPPV 20000
12.603 R SUNTV 20000
12.632 R ALJAZ 20000
12.632 R GEOTV 20000
12.632 R LBC 20000
12.632 R MBC 20000
12.632 R PLSAT 20000
12.632 R RTPI 20000
12.661 R AAGTV 20000
12.661 R ARYOW 20000
12.661 R BLUE 20000
12.661 R DANDA 20000
12.661 R DUBSP 20000
12.661 R HKYAT 20000
12.661 R INTER 20000
12.661 R MUSIK 20000
12.661 R QTV 20000
12.661 R SICNO 20000
12.661 R SPORT 20000
12.661 R SPT 20000
12.661 R ZOOM 20000
12.661 R ASIFM 20000
12.661 R RFI 20000
12.661 R RYTHM 20000
12.661 R ZIKR 20000

AMAZONAS
299.0 East (61.0 West)
AMA001CB

3.980 H EL TRECE 3330
4.133 H TV Palavra 2400
4.138 H TV CIDADE 3410

AMA001KB

11.055 H Tadiran Scopus 30000
11.097 V Curso Prima 1 9090
11.097 V Curso Prima 2 9090
11.097 V Curso Prima 3 9090
11.097 V Curso Prima 4 9090
11.113 V TV Bromelia 2310

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AMA001KS

Freq GHz	Pol	Channel Name	Symbol rate
11.737	H	AE MUNDO	43200
11.737	H	Canal 13	43200
11.737	H	Canal 13 (Cable)	43200
11.737	H	Cartoon Network	43200
11.737	H	CDF	43200
11.737	H	CHV	43200
11.737	H	Cinemax	43200
11.737	H	Discovery Kids	43200
11.737	H	E! Entertainment	43200
11.737	H	HBO	43200
11.737	H	HBO+	43200
11.737	H	LA RED	43200
11.737	H	MEGA	43200
11.737	H	TVN	43200
11.737	H	AE MUNDO	43200
11.737	H	Cinecanal 2	43200
11.737	H	CINEMAX	43200
11.737	H	Fox Sport Premium	43200
11.737	H	HBO	43200
11.737	H	HBO OESTE	43200
11.737	H	HBO+	43200
11.737	H	MAX Prime	43200
11.737	H	Movie City	43200
11.972	V	)ETTD-2 C2 GDA	27500
12.132	H	Discovery Health	30000
12.132	H	El Goumert	30000
12.132	H	Eurochannel	30000
12.132	H	Fox Channel	30000
12.132	H	Grandes Documentales	30000
12.132	H	HIPICA	30000
12.132	H	History Channel	30000
12.132	H	I-Sat	30000
12.132	H	Jetix	30000
12.132	H	MTV	30000
12.132	H	National Geographic	30000
12.132	H	Nickelodeon	30000
12.132	H	People and Arts	30000
12.132	H	Retrochannel	30000
12.132	H	Space	30000
12.132	H	Travel and Living	30000
12.132	H	TVE	30000
12.132	H	Utilisima	30000
12.172	H	Animal Planet	30000
12.172	H	AXN	30000
12.172	H	Cartoon Network	30000
12.172	H	Cine Canal	30000
12.172	H	CNN en Espanol	30000
12.172	H	Discovery Channel	30000
12.172	H	Disney Channel	30000
12.172	H	E! Entertainament	30000
12.172	H	ESPN	30000
12.172	H	ESPN+	30000
12.172	H	Fox Sport	30000
12.172	H	Play Boy TV	30000
12.172	H	SONY	30000
12.172	H	The Film Zone	30000
12.172	H	TNT	30000
12.172	H	Universal	30000
12.172	H	Warner	30000

AMA001SN

Freq GHz	Pol	Channel Name	Symbol rate
12.092	H	AE MUNDO	30000
12.092	H	CANAL 13	30000
12.092	H	CANAL 13 CABLE	30000
12.092	H	CDF	30000
12.092	H	CHV	30000
12.092	H	Cinecanal 2	30000
12.092	H	CINEMAX	30000
12.092	H	DISCOVERY KIDS	30000
12.092	H	Fox Sport Premium	30000
12.092	H	HBO	30000
12.092	H	HBO OESTE	30000
12.092	H	HBO+	30000
12.092	H	LA RED	30000
12.092	H	MAX Prime	30000
12.092	H	MEGA	30000
12.092	H	Movie City	30000
12.092	H	TVN	30000

West Europe, North America
INTELSAT 9
302.0 East (58.0 West)

INT009KC

Freq GHz	Pol	Channel Name	Symbol rate
11.477	H	DDI	26470
11.477	H	Aastha Ch 2	26470
11.477	H	Channel 5	26470
11.477	H	P9 1K - Adhoc Channe	26470
11.477	H	P9 1K - Adhoc Channe	26470
11.531	H	SD_ENC_06	6620
11.612	H	CUBAVISION	3670

C-Band: INTELSAT 9
302.1 East (57.9 West)

INT009CA

Freq GHz	Pol	Channel Name	Symbol rate
3.720	H	Canal 52	19510
3.720	V	Canal Fox (Andean)	27700
3.720	V	Canal Fox (Andean/AC	27700
3.720	V	Canal Fox (Brazil)	27700
3.720	V	Canal Fox (Brazil/AC	27700
3.720	V	Canal Fox (Central)	27700
3.720	V	Canal Fox (Central/A	27700
3.720	V	Canal Fox (East)	27700
3.720	V	Canal Fox (East/AC3)	27700
3.720	V	Canal Fox (West)	27700
3.720	V	Canal Fox (West/AC3)	27700
3.720	H	Cino Latino	19510
3.720	H	Exa TV	19510
3.720	V	Feeds (FOX ADHOC)	27700
3.720	V	FX (Brazil)	27700
3.720	V	FX Latin	27700
3.720	V	FX Latin (AC3)	27700
3.720	H	Hallmark Channel Mex	19510
3.720	H	MVS Empresarial	19510
3.720	V	National Geographic	27700
3.720	V	National Geographic	27700
3.720	V	National Geographic	27700
3.720	V	National Geographi	27700
3.720	V	Speed (Latin America	27700
3.720	V	SPEED LATIN AMERI	27700
3.720	H	TV Guide	19510
3.720	H	USA America Latina	19510
3.720	V	USA Network (Latin)	27700
3.720	V	USA Network (Latin	27700
3.760	H	CC ANIV	28500
3.760	V	Channel 30	27684
3.760	H	Cinecanal	28500
3.760	H	Cinecanal 2	28500
3.760	H	Cinecanal Este	28500
3.760	H	Cinecanal Oeste	28500
3.760	V	Cl@se Brasil	27684
3.760	V	FTV	27684
3.760	V	FTV Port	27684
3.760	V	FTV VZLA	27684
3.760	V	HTV	27684
3.760	V	I-Sat	27684
3.760	V	Infinito Latino	27684
3.760	V	Infinito Por	27684
3.760	V	Infinito Sur	27684
3.760	V	Infinito USA	27684
3.760	V	Locomotion Latin	27684
3.760	V	Luna Vision 2	27684
3.760	H	Movie City Este	28500
3.760	H	Movie City Oeste	28500
3.760	V	Much Music	27684
3.760	V	MUCH VZLA	27684
3.760	V	PB Digital +	27684
3.760	V	PB Iberia	27684
3.760	V	PB Latino	27684
3.760	V	PB Latino Port	27684
3.760	V	Playboy Brasil 2	27684
3.760	V	Playboy Digital +	27684
3.760	V	Playboy Latino 2	27684
3.760	V	Playboy TV (Brasil M	27684
3.760	V	Playboy TV (Brasil)	27684
3.760	V	Playboy TV (Iberia)	27684
3.760	V	Playboy TV (Latin Am	27684
3.760	V	Playboy TV (Latin Am	27684
3.760	V	Retro	27684
3.760	V	Retro Port	27684
3.760	V	Space	27684
3.760	V	Test card	27684
3.760	H	The Film Zone Este	28500
3.760	H	The Film Zone Oeste	28500
3.760	V	Utilisima	27684
3.760	V	Utilisima Cue	27684
3.760	V	Venevision Continent	27684
3.760	V	Venus NTSC	27684
3.760	V	Venus PAL	27684
3.760	V	Venus Por	27684
3.760	H	CC ANIV	28500
3.760	H	CineCanal Classics p	28500
3.760	V	Prueba	27684
3.760	V	Utilisima Satelital	27684
3.786	H	Canal Caracol altern	4443
3.786	H	Canal Caracol Nacion	4443
3.800	V	!Regional Network/Oc	26470
3.800	V	!Regional Network/Oc	26470
3.800	V	ESPN 2	26470
3.800	V	ESPN Atlantic Netw	26470
3.800	V	ESPN Brazil	26470
3.800	V	ESPN feeds (Syndic	26470
3.800	V	ESPN Latin Network	26470
3.800	V	ESPN Pacific Rim N	26470
3.800	H	Feeds	27680
3.800	H	Paris Premiere	27680
3.800	V	Syndication PAL	26470
3.800	V	Temp ESPN	26470
3.800	V	Temp ESPN2	26470
3.800	V	Temp-Atlantic	26470
3.800	V	Temp-Pac Rim	26470
3.800	V	Temp-Synd-NTSC	26470
3.800	H	Test Card	27680
3.800	V	Test enc-10	26470
3.800	H	Zee TV Africa	27680
3.800	V	Temp-Synd-Pal	26470
3.800	V	Test enc-9	26470
3.800	V	I-Net Radio	26470
3.808	H	CRI Radio	3428
3.815	H	Movida TV	3950
3.815	H	Onda TV	3950
3.840	H	BBC World (North A	27684
3.840	H	BBC World (South A	27684
3.840	V	Bloomberg TV (Asia-P	27690
3.840	V	Eurochannel	27690
3.840	H	German Television	27684
3.840	V	MGM Gold	27690
3.840	V	Telemundo Internacio	27690
3.840	H	Zee TV	27684
3.840	H	ADHOC 1	27684
3.840	V	Adhoc 2 - MM1P4	27690
3.840	H	CCP D9223 Decoder	27684
3.840	H	Cubavision	27684
3.840	H	DCP D9223 Decoder	27684
3.840	H	Deutsche Welle TV (A	27684
3.840	H	EWTN	27684
3.840	H	Feeds (ADHOC 2)	27684
3.840	V	Guatevision	27690
3.840	V	OPEN MM1P4	27690
3.840	H	Deutsche Welle - 1	27684
3.840	H	Deutsche Welle - 2	27684
3.840	H	Deutsche Welle - 7	27684
3.840	H	EWTN Radio	27684
3.840	H	EWTN Radio PAZ	27684
3.880	V	Animal Planet (Brasi	27684
3.880	V	Bert	27684
3.880	V	Civilization (SPN)	27684
3.880	V	Civilization Eng/E	27684
3.880	V	Discovery Channel (B	27684
3.880	V	Discovery Channel (I	27684
3.880	V	Discovery Channel (V	27684
3.880	V	Discovery Health (Br	27684
3.880	V	Discovery Health Bra	27684
3.880	V	Discovery Kids (Bras	27684
3.880	V	Discovery Travel & A	27684
3.880	V	People & Arts (Brasi	27684
3.880	V	People & Arts (Iberi	27684
3.880	V	People and Arts (Mex	27684
3.880	V	Science (POR)	27684
3.880	V	Science (POR) Digita	27684
3.880	V	Science (SPN) Cast	27684
3.880	V	Science English/En	27684
3.880	V	Turbo (POR)	27684
3.880	V	Turbo (POR) Digital	27684
3.880	V	Turbo (SPN) Cast/C	27684
3.880	V	Turbo English/Engl	27684
3.880	H	Adhoc Chanel 7	27684
3.880	H	Arirang TV World 2	27684
3.880	H	CCP Copy of 6	27684
3.880	H	CCTV 3	27684
3.880	H	CCTV 4	27684
3.880	H	CCTV 9	27684
3.880	H	DCP copy of 6	27684
3.880	H	Feeds	27684
3.880	H	HSER Upgrade	27684
3.880	H	MM Channel	27684
3.880	H	Test Card	27684
3.880	H	YTN	27684
3.911	V	Fox Sports Basico	13330
3.911	V	Fox Sports Basico	13330
3.911	V	FOX SPORTS CONO S	13330
3.911	V	Fox Sports Premium	13330
3.911	V	Fox Sports Premium	13330
3.924	V	Enlace Juvenil	6620
3.924	V	TBN Enlace	6620
3.924	V	Enlace Radio	6620
3.924	V	SE RADIO	6620
3.933	V	3ABN	7000
3.933	V	3ABN Cue Tones	7000
3.933	V	3ABN Radio	7000
3.933	V	Radio 74	7000
3.933	V	WDQN	7000
4.000	H	BBC World	27690
4.000	H	BBC World (Latin A	27690
4.000	H	German TV	27690
4.000	H	Paris Premiere	27690
4.000	H	Zee TV	27690
4.000	H	Deutsche Welle TV	27690
4.000	H	RTP International	27690
4.000	H	Test Card	27690
4.000	H	Deutsche Welle 1	27690
4.000	H	Deutsche Welle 2	27690
4.000	H	Deutsche Welle 7	27690
4.000	H	RDP 1	27690
4.000	H	Renascenca Canal 1	27690
4.000	H	RTP	27690
4.080	H	!Central Europe Emer	27684
4.080	H	Copy AsiaPac NTSC	27684
4.080	H	Hallmark Channel (Ar	27684
4.080	H	Hallmark Channel (Br	27684
4.080	H	Hallmark Channel (Is	27684
4.080	H	Hallmark Channel (La	27684
4.080	H	Hallmark Channel (Me	27684
4.080	H	Hallmark Channel (Ru	27684
4.080	H	Hallmark Channel (Sc	27684
4.080	H	Hallmark Channel (UK	27684
4.080	V	MTV	27690
4.080	V	MTV (South)	27690
4.080	V	MTV Central	27690
4.080	V	MTV Central (Andean)	27690
4.080	V	MTV Central (Caribbe	27690
4.080	V	MTV Central (Chile)	27690
4.080	V	MTV Central (Colombi	27690
4.080	V	MTV Central (Venezue	27690
4.080	V	MTV North (Mexico)	27690
4.080	V	Nickelodeon (Andean)	27690
4.080	V	Nickelodeon (Argenti	27690
4.080	V	Nickelodeon (Brasil)	27690
4.080	V	Nickelodeon (Caribbe	27690
4.080	V	Nickelodeon (Central	27690
4.080	V	Nickelodeon (Chile)	27690
4.080	V	Nickelodeon (Colombi	27690
4.080	V	Nickelodeon (Mexico)	27690
4.080	V	Nickelodeon (Venezue	27690
4.080	H	Primary Argentina 2P	27684
4.080	H	Primary Brazil Encod	27684
4.080	H	Primary Mexico Encod	27684
4.080	H	PrimaryLatAmPanReg	27684
4.080	H	Test Asia	27684
4.080	V	VH1	27690
4.080	V	VH1 Latino	27690
4.107	H	1 Nacional	6620
4.107	H	2 Internacional	6620
4.107	H	3 Servicios	6620
4.120	V	Al Arabiyah	27500
4.120	V	Al Jazeera	27500
4.120	V	ART Australia	27500
4.120	V	Art Global America	27500
4.120	V	ART Latino	27500
4.120	V	Art Movies Ameica	27500
4.120	V	Iqraa Channel	27500
4.120	V	Kuwait TV	27500
4.120	V	LBC America	27500
4.120	V	LBC Australia	27500
4.120	V	Leonardo World	27500
4.120	V	MBC Europe	27500
4.120	V	NBN	27500
4.120	V	RAI International	27500
4.120	V	Video Italia	27500
4.120	V	NourSat	27500
4.120	V	Radio Italia	27500
4.120	V	Radio Italia Anni 60	27500
4.120	V	Radio2 Moro	27500
4.120	V	RAI Radio (Australia	27500
4.120	V	Antenna 1 97.1 FM	27500
4.120	V	ART Al Ddkir Chann	27500
4.120	V	ART Music Channel	27500
4.120	V	RAI International	27500
4.123	H	CTNi	2222
4.127	H	Bethel TV	3273
4.137	H	Family Christian Net	3675
4.137	H	FCN	2941
4.143	V	Feeds	2205
4.157	H	Feeds (Sersat)	6500
4.160	V	La Cadena del Milagr	3000

America, Europe
C-Band: INTELSAT 805
304.5 East (55.5 West)

INT805HB

Freq GHz	Pol	Channel Name	Symbol rate
● 3.451	H	EADCON-1	4444
● 3.451	H	EADCON-2	4444
3.466	V	FSC JAMAICA	4340
3.466	V	IMC2 TEST CHANN	4340
● 3.667	H	EDUCON - LAPA	3300
3.675	V	A.D.venir (digital)	2660
3.677	H	Perú Mágico	4232
3.727	H	EDUCON - LAPA	10370
3.735	V	IMC	8680
3.735	V	SPORTSMAX	8680
3.735	V	RE TV	8680
● 3.751	V	APTN3 +442074827430	5632
● 3.768	H	LatinAmericaBkup	4427
3.776	H	ATV	7400
3.776	H	Global TV	7400
3.912	V	EDUCON - LAPA	1808
● 3.936	H	BBC Amer Feed 1	3255
● 3.936	H	BBC Amer Feed 2	3255
● 3.936	H	BBC Amer Feed 3	3255
● 3.936	H	BBC Amer Feed 4	3255
● 3.936	H	BBC Arabic	3255
● 3.936	H	BBC Brazil	3255
● 3.936	H	BBC English (Amer.)	3255
● 3.936	H	BBC English (Carib.)	3255
● 3.936	H	BBC English News	3255
● 3.936	H	BBC Spanish	3255
3.999	V	Telemedia 1	5200
3.999	V	Telemedia 2	5200
3.999	V	{Empty}	5200
4.027	V	CANAL UNO	3000
4.027	V	EDUCON - LAPA	3000
● 4.080	V	RTP Africa	4340
● 4.080	V	RTPi America	4340
● 4.080	V	RTPi Asia	4340
● 4.080	V	RTPi Europa	4340
● 4.080	V	Radio RDP Africa	4340
● 4.080	V	Radio RDP Antena1	4340
● 4.080	V	Radio RDP Internacio	4340
4.084	H	EDUCON - LAPA	10318
4.097	H	CANAL 10	5247
4.097	H	CANAL 4	5247
4.105	H	EDUCON - LAPA	5062
● 4.134	H	GLOBO INTERNACION	6111
4.134	H	GLOBO INTERNATION	6111
● 4.134	H	GI UPGD S/W	6111
● 4.134	H	GLOBO INTERNATION	6111
4.140	V	AUDIO TEST	4700
4.140	V	FRECUENCIA LATINA	4700
4.158	H	EDUCON - LAPA	1446
4.177	V	MTV CENTRAL	27690
4.177	V	MTV CENTRAL - COP	27690
4.177	V	MTV CENTRAL - COP	27690
4.177	V	MTV CENTRAL - COP	27690
4.177	V	MTV CENTRAL - COP	27690
4.177	V	MTV CENTRAL CHILE	27690
4.177	V	MTV H	27690
4.177	V	MTV J	27690
4.177	V	MTV NORTH (MEXICO	27690
4.177	V	MTV SOUTH (ARGENT	27690
4.177	V	NICK NORTH (MEXIC	27690
4.177	V	NICK NORTH - COPY	27690
4.177	V	NICK SOUTH (ARGEN	27690
4.177	V	NICK SOUTH (CHILE	27690
4.177	V	NICK SOUTH -COPY	27690
4.177	V	Test 9	27690
4.177	V	VH-1 LATINO (PANR	27690
4.177	V	VH1 Latino South (	27690
4.177	V	VH1 SL	27690
4.177	V	VH1L B	27690
3.748	V	EDUCON - LAPA	3250

INTELSAT 707
307.0 East (53.0 West)

INT707CA

Freq GHz	Pol	Channel Name	Symbol rate
4.135	L	Alef Network	4300
3.831	R	ORTB	2711
3.856	R	AFRICABLE	3906

INT707KA

Freq GHz	Pol	Channel Name	Symbol rate
11.875	V	TV Senado	2344
11.891	V	Entel Mux	19510

INT707WH

Freq GHz	Pol	Channel Name	Symbol rate
3.820	R	Sports Max	3255

C-Band: INTELSAT 705
310.0 East (50.0 West)

INT705CG

Freq GHz	Pol	Channel Name	Symbol rate
4.126	L	RCTV Venezuela	6113
4.126	L	Radio Caracas	6113

INT705EH

Freq GHz	Pol	Channel Name	Symbol rate
4.071	L	TVes	4600

INT705WH

Freq GHz	Pol	Channel Name	Symbol rate
3.911	R	Red Television	3617
3.917	R	Tele Canal	4087

INTELSAT 1R
315.0 East (45.0 West)

INT01REH

Freq GHz	Pol	Channel Name	Symbol rate
11.510	H	CCTV 4	26694
11.510	H	CCTV E&F	26694

C-Band: INTELSAT 1R
315.1 East (44.9 West)

INT01REA

Freq GHz	Pol	Channel Name	Symbol rate
3.825	H	Deus e amor Infocard	2075
3.825	H	Deus e amor Radio	2075

INT01RUV

Freq GHz	Pol	Channel Name	Symbol rate
3.742	V	Aldeia FM	4445
3.742	V	TV Aldeia	4445
3.760	V	Telefuturo (left aud	2941
3.764	V	Canal 5 El Lider	4963
3.764	V	Telecadena 7 y 4	4963
3.773	V	Canal 45 Teleradio A	3000
3.773	V	Hola Gente TV	3000
3.781	V	Telecentro	3750
3.869	H	Gamavision	3515
3.869	H	GAMAVISION ECUADO	3515
3.910	V	CMC TELEVISION	4410
4.040	V	CTC-Mundo	4347
4.071	V	UCV TV	2615
4.096	H	Education A Distanci	8102
4.096	H	Radio Nacional del P	8102
4.106	V	Televicentro	14450
4.106	V	Tu Universo Televisi	14450
4.106	V	WKAQ-TV	14450
4.106	V	WLII-TV	14450
4.192	H	Deus e Amor	2075

South America
INTELSAT 1R
315.2 East (44.8 West)

INT01RAH

Freq GHz	Pol	Channel Name	Symbol rate
● 11.790	V	{Empty Name}	10000
11.808	V	TV	4444
11.808	H	TV PAN	4777
11.808	H	TV Mulher&Mae	4777
11.833	H	Hola Gente TV	19170
11.873	H	Canal 45 Teleradio A	11000
● 11.870	V	FLYAWAY-PDVSA-1	3000
● 11.874	V	Rafael 01	3000

INTELSAT 3R, 11
317.0 East (43.0 West)

INT03REU

Freq GHz	Pol	Channel Name	Symbol rate
12.568	H	AAPNA DES	2170
12.584	V	Clasico TV	27500
12.584	V	De Pelicula	27500
12.584	V	Galavision	27500
12.584	V	Promocion	27500
12.584	V	Ritmoson	27500
12.584	V	Telehit	27500
12.584	V	Telenovelas	27500
12.588	H	C essentiel	2480
12.607	V	Tvsa Int Europa	6250
12.618	V	XEW-TV-2	1560
12.651	H	Fox News	30800
12.651	H	Fox sports	30800
12.651	H	ADHOC 22	30800
12.651	H	ADHOC 24	30800
12.651	H	EWTN 1	30800
12.651	H	EWTN 2	30800
12.651	H	VC 30 Open	30800
12.659	V	Buzz	28665
12.659	V	Cinematk	28665
12.659	V	CineStar	28665
12.659	V	Dark	28665
12.659	V	Kidsco	28665
12.659	V	MGM	28665
12.659	V	Natura	28665
12.659	V	Pacha	28665
12.659	V	Somos	28665
12.659	V	Xtreme	28665
12.659	V	THE AUTISM CH	28665
12.715	V	Peru TV	6355

INT06BBR

Freq GHz	Pol	Channel Name	Symbol rate
10.722	H	Artear Virtual 1	30000
10.722	H	Artear Virtual 2	30000
10.722	H	Artear Virtual 3	30000
10.722	H	Canal 10 Roca	30000
10.722	H	Canal 13	30000
10.722	H	EPTV	30000
10.722	H	ESPN Brasil	30000
10.722	H	Magazine	30000
10.722	H	Pacote UFC	30000
10.722	H	RBS TV	30000
10.722	H	Rede Globo	30000
10.722	H	Sky Premiere	30000
10.722	H	TC Classic	30000
10.722	H	The Weather Channel	30000
10.722	H	Todo Noticias	30000
10.722	H	TV Bahia	30000
10.722	H	TV Escola	30000
10.722	H	TV Vanguarda	30000
10.722	H	TyC Inter. NTSC	30000
10.722	H	TyC Inter. PAL	30000
10.722	H	TyC Max	30000
10.722	H	TyC Sports	30000
10.722	H	TyC Virtual	30000
10.722	H	Volver	30000
10.722	H	Globo AM	30000
10.722	H	Radio France Interna	30000
10.722	H	Radio Mitre	30000
10.802	V	Futura	30000
10.802	V	Globo News	30000
10.802	V	Globo RJ	30000
10.802	V	GNT	30000
10.802	V	Multishow	30000
10.802	V	Shoptime	30000
10.802	H	Sky	30000
10.802	H	Sky Premiere	30000
10.802	V	SporTV	30000
10.802	H	Telecine Happy	30000
10.802	V	Telecine Premium	30000
10.802	H	TV Senado	30000
10.802	V	USA Network	30000
10.802	H	Sky Premiere	30000
10.802	V	Anos 60	30000
10.802	V	Axe	30000
10.802	V	Baladas Romanticas	30000
10.802	H	Blues	30000
10.802	H	Bossa Nova	30000
10.802	H	Country	30000
10.802	V	Disco	30000
10.802	V	Globo FM	30000
10.802	H	Grandes Intérpretes	30000
10.802	H	Heavy Metal	30000
10.802	H	Jazz Classico	30000
10.802	H	Pop Teen	30000
10.802	H	Rhythm & Blues	30000
10.802	V	Rock	30000
10.802	V	Samba e Pagode	30000
10.802	V	Sucessos	30000
10.802	V	Trilhas Sonoras	30000
10.882	V	Boomerang	30000
10.882	V	Canal Brasil	30000
10.882	V	Canal Rural	30000
10.882	H	Central Nacional de	30000
10.882	H	Globo SP	30000
10.882	H	MTV Brasil	30000
10.882	H	National Geographic	30000
10.882	H	Rede STV	30000
10.882	H	Rede Vida	30000
10.882	V	Sexy Hot	30000
10.882	H	Telecine Action	30000
10.882	H	Telecine Emotion	30000
10.882	V	TV Camara	30000
10.882	V	TV Escola	30000
10.882	H	TV Justica	30000
10.882	V	TV Senado	30000
10.882	V	Anos 70	30000
10.882	V	BBC World Service	30000
10.882	V	Gospel	30000
10.882	H	Hip Hop	30000
10.882	H	Jovem Pan 2 FM	30000
10.882	H	Jovem Pan AM	30000
10.882	V	MPB	30000
10.882	H	Radio Clube do Para	30000
10.882	H	Radio Gaucha	30000
10.882	V	Rave	30000
10.882	V	Reggae	30000
10.882	H	Rock Classico	30000
10.882	V	Sertanejo	30000
10.882	V	Voice of America	30000
12.583	H	C+ HORIZONS	9404
12.583	H	CANAL+ CINEMA	9404
12.583	H	CINE CINEMAS	9404
12.583	H	TV5MONDE AFRIQUE	9404
12.608	V	Tvsa Int Europa	6250

C-Band: INTELSAT 3R
317.1 East (42.9 West)

INT03RAM

Freq GHz	Pol	Channel Name	Symbol rate
3.719	V	Fox Sports feeds (ch	19849
3.719	V	Fox Sports feeds (ch	19849
3.719	V	Fox Sports feeds (ch	19849
3.719	V	Fox Sports feeds (Do	19849
3.744	V	Canal Fox	21259
3.744	V	CC Aniversario	21259
3.744	V	Cinecanal (East)	21259
3.744	V	Movie City (East)	21259
3.744	V	Movie City (West)	21259
3.744	V	The Film Zone	21259
3.744	V	Cinecanal (East)	21259
3.744	V	MKT Channel	21259
3.785	H	Boomerang (Brazil)	30800
3.785	H	Boomerang (Latin Ame	30800
3.785	H	Boomerang (Latin Ame	30800
3.785	H	Cartoon Network (Bra	30800
3.785	H	Cartoon Network (Bra	30800
3.785	H	Cartoon Network (Bra	30800
3.785	H	Cartoon Network (Lat	30800
3.785	H	Cartoon Network (Lat	30800
3.785	H	Cartoon Network (Lat	30800
3.785	H	Cartoon Network (Lat	30800
3.785	H	Cartoon Network (Lat	30800
3.785	H	Cartoon Network (Lat	30800
3.785	H	Cartoon Network (Lat	30800
3.785	H	TCM (Latin America)	30800
3.785	H	TCM LA	30800
3.785	H	TEN Confidence Feed	30800
3.785	H	TNT (Brazil)	30800
3.785	H	TNT (Chile)	30800
3.785	H	TNT (Latin America	30800
3.785	H	TNT (Latin America	30800
3.785	H	TNT (Latin America	30800
3.785	H	TNT (Latin America	30800
3.785	H	TNT (Latin America	30800
3.785	H	Toon-Tina	30800
3.785	H	Toon-Tina (left audi	30800
3.785	H	Toon-Tina (right aud	30800
3.840	V	Fashion TV (Latin Am	27684
3.840	V	I-sat	27684
3.840	V	Infinito	27684
3.840	V	MuchMusic	27684
3.840	V	Retro	27684
3.840	V	Space	27684
3.840	V	Utilisima Satelital	27684
3.840	V	Venus	27684
3.840	V	Venus Latino	27684
3.846	H	Test card	30800
3.846	H	Bloomberg TV Brasil	30800
3.846	H	CNBC	30800
3.846	H	Feeds (Adhoc)	30800
3.846	H	Open VC#2	30800
3.846	H	Test card	30800
3.846	H	TYC Sports - MM#2	30800
3.846	H	BBC Radio Service	30800
3.856	V	Boomerang (Brazil)	30800
3.856	V	Boomerang (Latin Ame	30800
3.856	V	TCM (Latin America)	30800
3.856	V	TNT (Brazil)	30800
3.856	V	TNT (Chile)	30800
3.856	V	TNT (Latin America	30800
3.856	V	TNT (Latin America)	30800
3.856	V	TNT (Mexico)	30800
3.856	V	Toon-Tina	30800
3.856	V	Toon-Tina (Brazil)	30800
3.856	V	Toon-Tina (Latin Ame	30800
3.856	V	Toon-Tina (Mexico)	30800
3.856	V	Test card	30800
3.868	H	Feeds (Adhoc)	6620
3.872	H	Panamsat test card	6620
3.887	H	Televisa Feed	5715
3.891	V	Feeds	6111
3.906	V	TV Azteca	13239
3.910	V	Globecast feeds	5632
3.930	V	Feeds (OTI#1)	25000
3.937	H	Feeds (TELEVISA F	3906
3.944	H	Feeds (Service 1)	5710
3.946	V	Feeds (Service 2)	2592
3.958	V	TV 5 Amerique Latine	6500
3.968	H	De Pelicula	21090
3.968	H	Estrellas	21090
3.968	H	Ritmoson	21090
3.968	H	Telehit	21090
3.968	H	Telenovelas	21090
3.971	H	enc3p1 dig Port	13800
3.971	H	enc3p1 dig Sp	13800
3.971	H	enc3p1 Port	13800
3.971	H	enc3p1 Sp	13800
3.971	H	enc3p2 dig Port	13800
3.971	H	enc3p2 dig Sp	13800
3.971	H	enc3p2 Port	13800
3.971	H	enc3p2 Sp	13800
3.971	H	enc3p3 dig Port	13800
3.971	H	enc3p3 dig Sp	13800
3.971	H	enc3p3 Port	13800
3.971	H	enc3p3 Sp	13800
3.971	H	enc3p4 dig Port	13800
3.971	H	enc3p4 dig Sp	13800
3.971	H	enc3p4 Port	13800
3.971	H	enc3p4 Sp	13800
3.971	H	enc3p5 dig Port	13800
3.971	H	enc3p5 dig Sp	13800
3.971	H	enc3p5 Port	13800
3.971	H	enc3p5 Sp	13800
3.971	H	enc3p6 dig Port	13800
3.971	H	enc3p6 dig Sp	13800
3.971	H	enc3p6 Port	13800
3.971	H	enc3p6 Sp	13800
3.971	H	enc3p7 dig Port	13800
3.971	H	enc3p7 dig Sp	13800
3.971	H	enc3p7 Port	13800
3.971	H	enc3p7 Sp	13800
3.971	H	enc3p8 dig Port	13800
3.971	H	enc3p8 dig Sp	13800
3.971	H	enc3p8 Port	13800
3.971	H	enc3p8 Sp	13800
3.971	H	enc3p9 dig Port	13800
3.971	H	enc3p9 dig Sp	13800
3.971	H	enc3p9 Port	13800
3.971	H	enc3p9 Sp	13800
3.988	V	Bloomberg (Latin Ame	4070
3.996	H	Animal Planet	21090
3.996	H	Discovery Channel (A	21090
3.996	H	Discovery Channel (L	21090
3.996	H	Discovery Channel (M	21090
3.996	H	Discovery Health (La	21090
3.996	H	Discovery Kids (Lati	21090
3.996	H	People and Arts (Arg	21090
3.996	H	People and Arts (Lat	21090
4.003	V	TV Azteca	6620
4.041	H	CNN en Espanol	30800
4.041	H	CNN en Espanol (Mexi	30800
4.041	H	CNN International	30800
4.041	H	CNN Mexico	30800
4.041	H	CNN Newsource	30800
4.041	H	CNN Spanish Radio	30800
4.041	H	CNNe Espanol	30800
4.041	H	CNNe Brazil	30800
4.041	H	CNNfn/CNN Headline	30800
4.041	H	CNNI Latin America	30800
4.041	H	HLN Asia	30800
4.041	H	International News S	30800
4.041	H	SAG Path 1	30800
4.041	H	SAG Path 2	30800
4.041	H	CNN en Espanol (Braz	30800
4.041	H	CNN Radio	30800
4.106	V	!Regional Network/Oc	26470
4.106	V	!Regional Network/Oc	26470
4.106	V	ESPN	26470
4.106	V	ESPN (Atlantic)	26470
4.106	V	ESPN (Brazil)	26470
4.106	V	ESPN (Latin A)	26470
4.106	V	ESPN (Latin B)	26470
4.106	V	ESPN (Pac Rim)	26470
4.106	V	ESPN 2	26470
4.106	V	ESPN feeds (Syndic	26470
4.106	V	Syndication NTSC	26470
4.106	V	Temp ESPN	26470
4.106	V	Temp ESPN2	26470
4.106	V	Temp-Atlantic	26470
4.106	V	Temp-Pac Rim	26470
4.106	V	Temp-Synd-NTSC	26470
4.106	V	Temp-Synd-Pal	26470
4.106	V	Test enc-10	26470
4.106	V	Test enc-9	26470
4.106	V	I-Net Radio	26470
4.151	H	Artear Virtual 1	24570
4.151	H	Artear Virtual 2	24570
4.151	H	Artear Virtual 3	24570
4.151	H	Canal 10 Roca	24570
4.151	H	Canal 13	24570
4.151	H	Magazine	24570
4.151	H	Todo Noticias	24570
4.151	H	TyC Inter. NTSC	24570
4.151	H	TyC Inter. PAL	24570
4.151	H	TyC Max	24570
4.151	H	TyC Sports	24570
4.151	H	TyC Virtual	24570
4.151	H	Volver	24570
4.151	H	Fm 100	24570
4.151	H	Radio Mitre	24570

America, Europe
C-Band: NSS 806
319.5 East (40.5 West)

NSS806CH

Freq GHz	Pol	Channel Name	Symbol rate
3.469	L	RBTI	4444
3.469	L	N_Mensagem	4444
3.475	L	JBN TV	4800
3.600	R	Canaan TV	25180
3.632	R	COLOMBEIA	2712
3.637	L	MAYA TV	2963
3.641	R	CMB TV	2665
3.641	L	Vivebien Service	2749
3.644	L	TV NAZAR	2534
3.646	R	TV GENESIS	3979
3.646	R	COMUNICAÇ▯O TV	3979
3.646	R	RADIO GENESIS	3979
3.652	L	TV GRANDE RIO	4000
3.652	L	GRANDE RIO FM	4000
3.654	R	TV ASA BRANCA	5924
3.660	L	America Television	4350
3.660	R	Canaan TV	2540
● 3.663	R	REDE UNIAO	2170
3.667	R	Canaan TV	3340
3.675	L	NT ESPAN	5900
3.675	L	NT PORT.	5900
3.675	L	RNT ESP.	5900
3.675	L	RNT POR.	5900
3.675	R	TELEGRACIA	2220
3.679	R	Canaan TV	2220
3.685	L	default program	6500

TV Digital · **Radio** Digital · **TV** Digital Crypt · **Radio** Digital Crypt · **TV** High Definition · **TV** High Definition Crypt

Freq GHz	Pol	Channel Name	Symbol rate
3.685	R	K MUSIC	6666
3.685	R	RADIOLA	6666
3.685	R	TV CENTRO	6666
3.691	R	Canaan TV	2203
3.725	R	Feed 1 (America2)	26667
3.727	L	Baby TV	26670
3.727	L	FOX Life Latin	26670
3.727	L	FX Central	26670
3.727	L	FX Latin	26670
3.727	L	FX PAL	26670
3.727	L	Utilisima Satelital	26670
3.727	L	Management TV Latam	26670
3.727	L	NAT GEO Music	26670
3.727	L	Universal Channel PA	26670
3.727	L	Utilisima NTSC	26670
● 3.758	R	A.Sport	26667
3.758	R	Canal (a)	26667
3.758	R	Cosmo NTSC	26667
3.758	R	Cosmo Pal	26667
3.758	R	ElGarage TV	26667
3.758	R	ElGourmet NTSC	26667
3.758	R	ElGourmet PAL	26667
3.758	L	ESPN + NTSC	20000
3.758	L	ESPN + PAL	20000
3.758	L	ESPN Latin NTSC	20000
3.758	L	ESPN Latin PAL	20000
3.758	R	Europa-Europa	26667
3.758	R	Film&Arts Por	26667
3.758	R	Film&Arts Spa	26667
3.758	R	Reality TV	26667
3.758	L	Virtual Channel 4	20000
● 3.758	R	Feed I	26667
3.758	L	PHD Brasil	20000
3.774	L	Argentinisima	6670
3.774	L	La Red	6670
3.774	L	Radio Del Plata	6670
3.774	L	Sist. Nac. Medios Pu	6670
3.803	R	AdHoc	26855
3.803	R	CL@SE	26855
3.803	R	GOL TV	26855
3.803	L	SIC TV	27500
3.803	R	AdHoc 02	26855
3.803	R	AdHoc 03	26855
3.803	R	Daystar	26855
3.803	L	DUNA TV	27500
3.803	L	ERT	27500
3.803	R	Maharishi University	26855
3.803	R	Rede Gospel	26855
3.803	L	Russia Today	27500
3.803	R	CCP Download	26855
3.803	R	D9225 Download	26855
3.803	R	DCP Download	26855
3.803	R	MetOpera	26855
3.803	L	RFI Francais	27500
3.803	L	RFI Langues	27500
3.855	L	Fox News Latin	5900
3.855	L	SPEED East Imitext	5900
3.855	L	SPEED Latin Americ	5900
3.857	R	SUPER LAND	6650
3.857	R	SUPER SHOW	6650
3.857	R	SUPERIOR	6650
3.857	R	RADIO BANDA B	6650
3.857	R	RADIO METROPOLE S	6650
3.859	L	SCOPUS-NET-TECH	2600
3.879	R	Meridiano TV	22115
3.879	R	Venevision Venezuela	22115
3.879	R	LA TELE	22115
3.879	R	Programacion Globovi	22115
3.879	R	Programacion VTV	22115
3.879	R	PUMA TV	22115
3.879	R	Vision Venezuela V	22115
3.879	R	Circuito Alianza	22115
3.879	R	Circuito CNB FM 10	22115
3.879	R	Circuito Triple F	22115
3.879	R	RNV Clasico	22115
3.879	R	RNV Informativo	22115
3.879	R	RNV Juvenil	22115
3.899	R	INH La Rinconada	4195
3.920	R	BFBS 1	20000
3.920	R	BFBS 2	20000
3.920	R	BFBS 4	20000
3.920	R	BFBS 5	20000
3.920	R	BELIZE*	20000
3.920	R	CANADA*	20000
3.920	R	CONTRIBUTION*	20000
3.920	R	R2 WORLD	20000
3.920	R	BFBS UK	20000
3.920	R	FALKLANDS	20000
3.920	R	GURKHA	20000
● 3.923	L	GLOBOSAT 11 ENC2P	27500
● 3.923	L	GLOBOSAT 12 ENC2P	27500
3.923	L	GLOBOSAT 14 ENC2P	27500
3.923	L	GLOBOSAT 17 ENC2P	27500
● 3.923	L	MEGAPIX	27500
3.923	L	PFCI	27500
3.923	L	TVGI EUROPA	27500
3.938	R	BODY CHANNEL	4785
3.938	R	HUMOR CHANNEL	4785
3.960	R	Canaan TV	3168
3.965	R	COSMOVISION	2540
● 3.972	L	Cadeia-1	3330
3.978	L	TV BRASIL	3979
3.980	R	Ch. 305 - Test	17800
3.980	R	Ch. 306 - Test	17800
3.980	R	Ch. 320 - LA1-2, LA3	17800
3.980	R	Ch. 321 - LA1-2, LA3	17800
3.980	R	Ch. 322 - LA1-2, LA3	17800
3.980	R	Ch. 323 - LA1-2, LA	17800
3.980	R	Ch. 324 - LA5-6, LA7	17800
3.980	R	Ch. 325 - LA7-8, LA5	17800
3.980	R	Ch. 328 - LA1 - LA8	17800
3.980	R	Ch. 330 - LA5-6, LA1	17800
3.980	R	Ch. 331 - LA5-6, LA1	17800
3.980	R	Ch. 332 - LA5-6, LA1	17800
3.980	R	Ch. 333 - LA11-12, L	17800
3.980	R	Ch. 334 - LA11-12, L	17800
3.980	R	Ch. 335 - LA13-14, L	17800
3.980	R	Ch. 338 - LA5-6, LA1	17800
3.980	R	Ch. 339 - LA9-10 P	17800
3.980	R	Ch. 340 - Dedicated	17800
3.980	R	Ch. 350 - LA25-26, L	17800
3.980	R	Ch. 380 - Alternate	17800
3.980	R	Ch. 8 - OS Downloa	17800
3.980	R	Ch. 9 - OS Downloa	17800
3.980	R	DEFAULT	17800
3.980	R	Ch. 336 - LA21-22, L	17800
3.980	R	Ch. 351 - LA29-30, L	17800
3.982	L	CANAL 26	2222
3.986	L	INTERNACIONAL	3180
3.986	L	RADIO AM	3180
3.991	L	San Isidro feeds (Sa	3578
4.002	L	TELECAFE	2450
4.005	L	SCOPUS-NET-TECH	2450
4.009	L	TELEANTIOQUIA COL	2450
4.016	R	RCN TV	5712
4.021	L	C. CONGRESO	16025
4.021	L	CANAL 1	16025
4.021	L	CANAL CAPITAL	16025
4.021	L	CANAL INSTITUCION	16025
4.021	L	CANAL OCASIONAL	16025
4.021	L	SENAL COLOMBIA	16025
4.021	L	TV. ANDINA	16025
4.025	R	24 Horas	9640
4.025	R	Entretenimiento	9640
4.025	R	TV_Colombia	9640
4.043	L	EbS Europe By Satell	8681
4.043	L	EbS+	8681
4.044	R	SPORT PLUS	7441
4.044	R	SUN CHANNEL	7441
4.054	L	Casa Club TV	7234
4.054	L	MGM Latin America	7234
4.063	R	Hipodromo Maronas	8500
4.063	R	VTV	8500
4.063	R	Carreras de Chile	8500
4.081	R	Canaan TV	6511
4.090	R	ContacTV APURE	2515
4.090	R	ContacTV CRISTIAN	2515
4.093	R	Canaan TV	2888
4.100	R	default program	6111
4.100	R	Televen Cable	6111
4.100	R	Transmision Internac	6111
4.100	R	{Empty}	6111
4.119	R	Telesur.	2960
4.122	L	CASABLANCA TESTE	3480
4.122	R	CITYTV	1860
4.122	L	JOVEM PAN	3480
4.125	L	Service 2	3000
4.126	R	AVILA TV	2531
4.129	R	ZUVISION TV	2000
4.132	L	AVIVAMIENTO	2480
4.137	L	RECORD INTERNATIO	4400
4.140	R	CABLE_NOTICIAS	2220
4.142	L	JBN	2222
4.143	R	CCP D/L	4800
4.143	R	DCP D/L	4800
4.143	R	DEFAULT	4800
4.143	R	TV Marti	4800
4.146	L	Tele Amiga	2571
4.151	R	Service 1	3280
● 4.168	L	UOMO TV	2400
4.170	L	CANAL ADULTO	2222
4.170	L	RADIO	2222
4.177	L	FIZ	4391
4.177	L	IDEAL	4391
4.189	L	ESPN BRASIL	13021
4.189	L	MTV 2	13021
4.189	L	MTV 3	13021
4.189	L	MTV BRASIL	13021
3.694	R	Tandberg Service	2200
● 3.653	R	TV ASA BRANCA	5925
3.681	R	K MUSIC	6666
3.681	R	RADIOLA	6666
3.681	R	TV CENTRO	6666
3.689	R	cinema	5180
3.689	R	MI - GENTE	5180
3.830	R	Kamasutra	6142
3.830	R	Rumba TV.	6142
3.830	R	Tele Nostalgia	6142
3.830	R	TV Agro	6142
3.830	R	Life Design TV	6142
3.938	R	HUMOR CHANNEL	4444
4.065	L	FOX Life Brazil	10650
4.065	L	FX Brazil	10650
4.065	L	Nat Geo Music	10650
4.065	L	Sci Fi Latin	10650
4.065	L	Universal Chile	10650
4.132	R	Taurus	2357

C-Band: NSS 10
322.6 East (37.4 West)

NSS010CN

Freq GHz	Pol	Channel Name	Symbol rate
3.868	V	Alter Globe	6666
3.868	V	Mega Cosmos	6666
3.868	V	Sky TG 24	6666
3.868	V	Radio Greece	6666

NSS010HA

Freq GHz	Pol	Channel Name	Symbol rate
3.805	H	GS TELECOM	2143

INTELSAT 903
325.5 East (34.5 West)

Freq GHz	Pol	Channel Name	Symbol rate
11.095	V	Canal Satellite Cara	30000
3.711	L	Tele Greenland fee	2915
3.715	L	KNR TV	2915
3.878	L	ARTE/ France 5	16300
3.878	L	Channels TV	16300
3.878	L	NTA2	16300
3.878	L	Ray Power	16300
3.878	L	Rythm FM	16300
3.878	L	Star FM	16300
3.908	L	RTI INTERNATIONAL	3040

INT903ZE

Freq GHz	Pol	Channel Name	Symbol rate
3.743	R	RTI premiere	3220

INTELSAT 801
328.5 East (31.5 West)

INT801EH

Freq GHz	Pol	Channel Name	Symbol rate
3.645	R	ORTM	5750
3.645	R	RADIO MALI	5750
3.718	R	RTS1	4881

INT801EU

Freq GHz	Pol	Channel Name	Symbol rate
11.493	V	CINEMAR	8000
11.493	V	CLUB	8000
11.493	V	FENY	8000
11.493	V	FOCUS	8000
11.493	V	GALAXIA	8000
11.493	V	MULATOS	8000
11.504	V	ONe TV	1600
10.982	H	BET	30000
10.982	H	CNN Latin America	30000
10.982	H	ESPN Latin America	30000
10.982	H	Eurosport News	30000
10.982	H	Fox Sports Latin Ame	30000
11.060	H	Canal + Antilles&Guy	30000
11.060	H	Canal + Bleu	30000
11.060	H	Euqidia	30000
11.060	H	Euronews	30000
11.060	H	Eurosport France	30000
11.060	H	France O	30000
11.060	H	ITV	30000
11.060	H	L'Equipe TV / Moto	30000
11.060	H	LCI - La Chaine In	30000
11.060	H	M6	30000
11.060	H	RFO Tele Guyane	30000
11.060	H	RFO Tempo	30000
11.060	H	Sport+	30000
11.060	H	Teva	30000
11.060	H	TF1	30000
11.060	H	TV 5 FBS	30000
11.060	H	Europe 1	30000
11.060	H	Hector	30000
11.060	H	Paris Jazz	30000
11.060	H	Radio Caribe Interna	30000
11.060	H	RFM	30000
11.060	H	France Info	30000
11.060	H	RFI	30000
11.482	H	Canal Satellite	30000
11.618	H	13'eme Rue	30000
11.618	H	Action	30000
11.618	H	Canal J	30000
11.618	H	Cinecinemas 1	30000
11.618	H	Cinecinemas 2	30000
11.618	H	Comedie	30000
11.618	H	Fox Kids France	30000
11.618	H	MCM Europe	30000
11.618	H	Planete	30000
11.618	H	RFM TV	30000
11.618	H	RTL 9	30000
11.618	H	TCM France	30000
11.618	H	TF 1	30000
11.618	H	TF 6	30000
11.618	H	The Disney Channel	30000
11.618	H	TV Breizh	30000
11.618	H	Voyage	30000
11.618	H	XXL	30000

Europe
HISPASAT 1C, 1D
330.0 East (30.0 West)

HIS01CKS

Freq GHz	Pol	Channel Name	Symbol rate
11.731	H	CANAL 4	28126
11.731	H	Disney Channel	28126
11.731	H	Disney Cinemagic	28126
11.731	H	Fox	28126
11.731	H	FOX CRIME	28126
11.731	H	Fox Life	28126
11.731	H	FX PORTUGAL	28126
11.731	H	LOCALIA	28126
11.731	H	XARXA TVL	28126
11.731	H	CNC	28126
11.731	H	Asturias FM	28126
11.731	H	BCN 7 BROADCAST	28126
11.731	H	BCN 8 BROADCAST	28126
11.731	H	INTERECONOMIA MUS	28126
11.731	H	LOCA FM	28126
11.731	H	PUNTO RADIO	28126
11.731	H	Radio CLM	28126
11.731	H	ROCK-GOL	28126
11.771	H	BBC Prime	27500
11.771	V	BLOOMBERG	27500
11.771	H	Canal de História	27500
11.771	H	E! Entertainment	27500
11.771	H	Infinito	27500
11.771	H	MCM TOP	27500
11.771	H	Mezzo	27500
11.771	H	PFC	27500
11.771	H	RTP Madeira	27500
11.771	H	SKY News	27500
11.771	H	The Biography Channe	27500
11.771	H	TV Globo Portugal	27500
11.771	H	VH1 Classic	27500
11.771	H	Vídeo-on-Demand	27500
11.771	H	XXL	27500
11.771	H	Canal Programação	27500
11.811	H	Acolhimento	27500
11.811	V	C.ESTRELLAS	27500
11.811	H	Canal Panda	27500
11.811	V	CNN+	27500
11.811	H	DSMCC - IPPV	27500
11.811	H	DSMCC - RADIOS	27500
11.811	V	PRO TV INT	27500
● 11.811	V	RMTV	27500
11.811	H	RTP 1	27500
11.811	H	RTP 2	27500
11.811	H	SIC	27500
11.811	H	SIC Notícias	27500
11.811	H	SIC Radical	27500
11.811	V	TCM CLÁSICO	27500
11.811	H	TVI	27500
11.811	V	ANDALUCÍA TV	27500
11.811	V	CANAL CLUB	27500
11.811	V	EUSKADI TV	27500
11.811	V	MÚSICA DIG.	27500
11.811	H	Sport TV 3	27500
11.811	V	TMSAT/LAOTRA	27500
11.811	V	TV GALICIA	27500
11.811	V	TVC INT.	27500
11.811	H	Venus	27500
11.811	H	Vídeo-on-Demand	27500
11.811	H	XXL	27500
11.811	V	Canciones de siempre	27500
11.811	V	Clasica	27500
11.811	V	Copla	27500
11.811	V	Fiestas	27500
11.811	V	Jazz	27500
11.811	V	Novedades	27500
11.811	V	Opera	27500
11.811	V	Pop rock espa	27500
11.811	V	Pop rock inter	27500
11.811	V	RAD. ROMANIA	27500
11.851	V	40 TV	27500
11.851	V	CANAL+	27500
11.851	V	CANAL+ 2	27500
11.851	H	CNN	27500
11.851	V	DISCOVERY	27500
11.851	H	Discovery Channel	27500
11.851	V	DISNEY CH.	27500
11.851	V	DOCU TVE	27500
11.851	H	Eurosport	27500
11.851	H	Hollywood	27500
11.851	V	MEZZO	27500
11.851	H	MTV Portugal	27500
11.851	H	Nickelodeon	27500
11.851	H	Odisseia	27500
● 11.851	V	PARAMOUNT C	27500
11.851	H	Playboy TV	27500
11.851	H	Sport TV 1	27500
11.851	V	SPORTMANÍA	27500
● 11.851	V	TCM MODERNO	27500
11.851	V	TELEDEPORTE	27500
11.851	H	TVCine 1	27500
11.851	H	TVCine 2	27500
11.851	H	TVCine 3	27500
11.851	H	Fashion TV	27500
11.851	H	Futebol MC 1	27500
11.851	H	Futebol MC 2	27500
11.851	H	Futebol MC 3	27500
11.851	H	Futebol MC 4	27500
11.851	H	M6	27500
11.851	H	Sport TV 2	27500
11.891	H	Arte	27500
11.891	V	C+ ACCIÓN	30000
11.891	V	C+ COMEDIA	30000
11.891	V	C+ DCINE	30000
11.891	V	CARTOON N +1	30000
11.891	V	DISNEY CH.+1	30000
11.891	H	Eurosport News	27500
11.891	H	Fashion TV	27500
11.891	V	JETIX	30000
11.891	H	Millennium TV	27500
11.891	H	MOV	27500
11.891	V	MTV	30000
11.891	V	NICK +1	30000
11.891	V	PLAYHOUSE	30000
11.891	H	RAI Uno	27500
11.891	H	RTL	27500
11.891	H	RTP Memória	27500
11.891	H	RTP N	27500
11.891	V	SONY TV	30000
11.891	H	TV Galicia	27500
11.891	H	TV5 Monde	27500
11.891	H	TVCine 4	27500
11.891	H	TVE Internacional	27500
11.891	H	Canal Programação	27500
11.891	H	CNBC	27500
11.891	H	RTP Madeira	27500
11.891	V	APPALCO	30000
11.891	V	Guia digital+	30000
11.891	V	Promociones	30000
11.931	V	BARÇA TV	27500
11.931	V	C+ EVENTOS	27500
11.931	H	CANAL CLASICO	27500
11.931	H	Clan/50	27500
11.931	H	GRANDES DOCUMENTA	27500
11.931	H	LDTV	27500
● 11.931	V	LIGA 08/09	27500
11.931	V	TAQUILLA 5	27500
11.931	V	TAQUILLA 6	27500
11.931	V	TAQUILLA 7	27500
11.931	V	TAQUILLA 8	27500
11.931	V	TAQUILLAX	27500
11.931	V	TAQUILLAXX	27500
11.931	H	TELEDEPORT	27500
● 11.931	V	EHS	27500
11.931	H	FEEDS TSA	27500
11.931	H	MAS TV	27500
11.931	H	MAX LOCAL	27500
● 11.931	H	OCASIONAL	27500
11.931	H	RTPA Internacional	27500
11.931	H	SENADO	27500
● 11.931	V	TAQUILLA	27500
11.931	H	TELETREBOL	27500
● 11.931	V	{Empty}	27500
11.931	H	ST-HILO 1	27500
11.931	H	ST-HILO 2	27500
11.931	H	ST-HILO 3	27500
11.931	H	COVIRAN	27500
11.931	H	EMUGA RADIOFUSION	27500
11.931	H	INTERECONOMIA	27500
11.931	H	RADIO MARIA	27500
11.972	V	God TV	27500
11.972	V	Balearic Channel	27500
11.972	V	Destino Galicia	27500
11.972	V	IB Sat	27500
11.972	V	Local Media	27500
11.972	V	Popular TV	27500
11.972	V	Red AD Venir	27500
11.972	V	Telesur	27500
11.972	V	TV Aragon	27500
11.972	V	TV Record	27500
11.972	V	TVE Internacional	27500
11.972	V	Cadena 100	27500
11.972	V	Loca FM	27500
11.972	V	Radio Aragon	27500
11.972	V	Radio IB 3	27500
12.012	V	AXN	27500
12.012	V	Cartoon / TCM	27500
12.012	V	National Geographic	27500
12.012	V	People + Arts	27500
12.012	V	SIC Mulher	27500
12.012	V	Sport TV 2	27500
12.012	V	TV Record	27500
12.012	V	Venus	27500
12.012	V	BBC World News	27500
12.012	V	EuroNews	27500
12.012	V	Extreme Sports Chann	27500
12.012	V	France 24	27500
12.012	V	RTP África	27500
12.012	V	VH1	27500
12.052	H	BLOOMBERG	30000
12.052	H	CARTOON	30000
12.052	H	CNBC EUROPE	30000
12.052	H	DISCOVERY CHANNEL	30000
12.052	H	DISNEY CHANNEL	30000
12.052	H	EUROCHANNEL	30000
12.052	H	EUROSPORT HD	30000
12.052	H	EUROSPORT2	30000
12.052	H	FUEL TV	30000
12.052	H	MCM POP	30000
12.052	H	MEZZO	30000
12.052	H	MGM	30000
12.052	H	NASN	30000
12.052	H	ODISSEIA	30000
12.052	H	PLAYBOY TV	30000
12.052	H	SIC	30000
12.052	H	SIC MULHER	30000
12.052	H	SIC NOTÍCIAS	30000
12.052	H	SIC RADICAL	30000
12.052	H	SONY ENTERTAINMEN	30000
12.052	H	SPORT TV 2	30000
12.052	H	SPORT TV 3	30000
12.052	H	TVCINE 3	30000
12.052	H	ZONE REALITY	30000
12.092	V	AXN	27500
● 12.092	V	AL JAZZERA INTL	27500
● 12.092	V	Balearic Channel	27500
12.092	V	C. Parlamentario	27500
12.092	V	CANAL 50	27500
● 12.092	V	COMUNICALIA	27500
12.092	V	CUBAVISION	27500
● 12.092	V	TBN ENLACE	27500
12.092	V	TV5MONDE EUROPE	27500
● 12.092	V	Antena 1	27500
12.092	V	EMA RADIO	27500
12.092	V	HIT BILBAO	27500
12.092	V	Radio Marca	27500
12.092	V	RADIO NERVION	27500
12.092	V	RADIO SPECTRUM	27500

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Freq GHz	Pol	Channel Name	Symbol rate
11.535	V	BIOGRAPHY	24500
11.535	V	COCINA	24500
11.535	V	decasa	24500
11.535	V	HISTORIA	24500
11.535	V	HOLLYWOOD ESP	24500
11.535	V	HOLLYWOOD POR	24500
11.535	V	ODI.HIS.CUE	24500
11.535	V	ODISEA	24500
11.535	V	PANDA	24500
11.535	V	SOL	24500
11.535	V	TEST	24500
11.577	V	AlJazeera	27500
11.577	V	AR TV / Gigashopping	27500
11.577	V	Caça e Pesca	27500
11.577	V	Discovery Civilizati	27500
11.577	V	Discovery Science	27500
11.577	V	Discovery Turbo	27500
11.577	V	M6	27500
11.577	V	MTV Dance	27500
11.577	V	MTV Music	27500
11.577	V	MTV TWO	27500
11.577	V	Porto Canal	27500
11.577	V	Nickelodeon	27500
11.577	V	TCM	27500
11.577	V	Antena 1	27500
11.577	V	Antena 2	27500
11.577	V	Antena 3	27500
11.577	V	Best Rock FM	27500
11.577	V	Cidade FM	27500
11.577	V	Marginal	27500
11.577	V	Oxigénio	27500
11.577	V	Radar	27500
11.577	V	RDP África	27500
11.577	V	Rádio Capital	27500
11.577	V	Rádio Clube	27500
11.577	V	Rádio Comercial	27500
11.577	V	Rádio Europa Lisboa	27500
● 11.577	V	Rádio Lusitania	27500
11.615	H	RETELSAT	27500
11.615	H	VNEWS	27500
11.615	H	ATLAS NEWS	27500
11.615	H	CANAL 53	27500
11.615	H	La Tele Local	27500
11.615	H	Tele Local 2	27500
● 11.615	H	Telelinea	27500
11.615	H	TSFonSAT	27500
11.615	H	Tu Tele Local	27500
11.615	H	VIT TV	27500
● 11.615	H	Exito Radio	27500
11.617	V	Baby TV	27500
11.617	V	Bloomberg	27500
11.617	V	ESPN Classic	27500
11.617	V	Futebol MC 1	27500
11.617	V	Futebol MC 2	27500
11.617	V	Futebol MC 3	27500
11.617	V	Futebol MC 4	27500
11.617	V	RTP Açores	27500
11.617	V	Sailing Channel	27500
11.617	V	Sport TV 3	27500
11.617	V	Travel Channel	27500
11.617	V	Zone Reality	27500
11.617	V	Funtastic Life Exper	27500
11.676	H	A3 AVERIA CANARIA	16190
11.676	H	A3 CANARIAS	16190
11.676	H	Pruebas1	16190
11.676	H	TVAC	16190
11.676	H	TVAC INS-REG HIER	16190
11.676	H	TVAC RESET DAMA	16190
11.676	H	TVE1-CANARIAS	16190
11.676	H	TVE2-CANARIAS	16190
11.676	H	7.7 RADIO	16190
11.676	H	CAN.RAD	16190
11.676	H	RADIO ECCA	16190
11.682	V	Mana Sat 2	3800
11.682	V	Mana Sat 1	3800
12.012	H	ANIMAX	30000
12.012	H	BABY TV	30000
12.012	H	BBC WORLD	30000
12.012	H	C-MUSIC	30000
12.012	H	CANAL DE HISTÓRIA	30000
12.012	H	E! ENTERTAINMENT	30000
12.012	H	EUROSPORT	30000
12.012	H	EUROSPORTNEWS	30000
12.012	H	HOLLYWOOD	30000
12.012	H	NAT GEO MUSIC	30000
12.012	H	NAT GEO WILD	30000
12.012	H	NATIONAL GEOGRAPH	30000
12.012	H	PRIVATE SPICE	30000
12.012	H	PRIVATE WEEKEND	30000
12.012	H	RTP 1	30000
12.012	H	RTP 2	30000
12.012	H	RTP AÇORES	30000
12.012	H	RTP MADEIRA	30000
12.012	H	RTP MEMÓRIA	30000
12.012	H	RTP N	30000
12.012	H	RTP ÁFRICA	30000
12.012	H	STYLE NETWORK	30000
12.012	H	TCM	30000
12.012	H	TVCINE 2	30000
12.092	H	BBC PRIME	30000
● 12.092	H	BENFICA TV	30000
12.092	H	CNN	30000
12.092	H	ESPN CLASSIC	30000
12.092	H	FASHION TV	30000
12.092	H	FOX NEWS	30000
12.092	H	FOX NEXT	30000
12.092	H	MOTORS TV	30000
12.092	H	MTV PORTUGAL	30000
12.092	H	NATIONAL GEOGRAPH	30000
12.092	H	PANDA	30000
12.092	H	PEOPLE + ARTS	30000
12.092	H	SKY NEWS	30000
12.092	H	SPORT TV 1	30000
12.092	H	THE BIOGRAPHY CHA	30000
12.092	H	TIJI	30000
12.092	H	TRACE TV	30000
12.092	H	TRAVEL CHANNEL	30000
● 12.092	H	TV GLOBO PORTUGAL	30000
12.092	H	TVCINE 1	30000
12.092	H	TVCINE 4	30000
12.092	H	TVI	30000
12.092	H	VH1	30000
● 12.092	H	FRANCE 24	30000
● 12.149	V	BABYFIRST	27500
● 12.149	V	BLOOMBERG	27500
● 12.149	V	CANAL ODISEA	27500
● 12.149	V	CAZA Y PESCA	27500
● 12.149	V	COSMOPOLITAN	27500
● 12.149	V	HISTORIA	27500
● 12.149	V	LA 2	27500
● 12.149	V	MÉTEO	27500
● 12.149	V	PEOPLE+ARTS	27500
● 12.149	V	TEST TC	27500
● 12.149	V	VIAJAR	27500
12.149	V	{Empty}	27500
12.226	V	AXN	27500
12.226	V	C+ ACCIÓN 30	27500
12.226	V	C+COMEDIA 30	27500
12.226	V	CANAL COCINA	27500
12.226	V	CARACOL TV	27500
12.226	V	DCINEESPAÑOL	27500
12.226	V	ECUAVISA INT	27500
12.226	V	FOX	27500
12.226	V	SCI FI	27500
12.226	V	TVE 1	27500
● 12.226	V	R. LATINAS	27500
● 12.226	V	RADIOS	27500
12.226	V	TVV INT.	27500
● 12.226	V	R. Latinas	27500
● 12.226	V	R. Informativas	27500
● 12.226	V	R. Musicales	27500
12.303	V	ANIMAX	27500
12.303	V	BOOMERANG	27500
12.303	V	CARTOON NET.	27500
● 12.303	V	LA 2	27500
12.303	V	NICK	27500
12.303	V	TAQUILLA 1	27500
12.303	V	TAQUILLA 2	27500
12.303	V	TAQUILLA 3	27500
12.303	V	TAQUILLA 4	27500
12.303	V	TAQUILLAXY	27500
● 12.303	V	TELEFE INT	27500
12.379	V	40 LATINO	27500
12.379	V	BABYFIRST	27500
12.379	V	C+ DEPORTES	27500
12.379	V	C+ FÚTBOL	27500
● 12.379	V	CALLE 13	27500
12.379	V	CANAL+...30	27500
12.379	V	FOX NEWS	27500
12.379	V	GOLF+	27500
12.379	V	NAT GEOGRAPH	27500
12.379	V	PLAYBOY TV	27500
● 12.379	V	PORTADA	27500
12.379	V	CompraSMS	27500
12.456	V	24 HORAS	30000
12.456	V	CLAN TVE	30000
12.456	V	CLÁSICO	30000
12.456	V	CUATRO	30000
12.456	V	EUROSPORT	30000
● 12.456	V	G. HERMANO	30000
12.456	V	HISTORIA	30000
● 12.456	V	HOGARUTIL	30000
12.456	V	HOLLYWOOD	30000
12.456	V	TELENOVELAS	30000
12.456	V	TNT	30000
12.456	V	ABONO F+	30000
12.456	V	Amigos+	30000
12.456	V	Contactanos	30000
12.456	V	GUÍADIGITAL+	30000
12.456	V	Paquetes	30000
12.456	V	Recibo	30000
12.456	V	Tu mando	30000
12.456	V	TV CANARIA	30000
12.456	V	{Empty}	30000
12.456	V	Contrato	30000
12.522	V	GOL TV	7400
12.522	V	LA SEXTA	7400
12.522	V	COM Radio	7400
12.547	V	65_TEST	30000
12.547	V	A3 EMERG CANARIAS	30000
12.547	V	ANTENA 3	30000
12.547	V	Backup_Algeciras	30000
12.547	V	CUATRO	30000
12.547	V	SEXTA CANARIAS	30000
12.547	V	TELE 5	30000
12.547	V	TELE 5 CANARIAS	30000
12.547	V	TVE 1	30000
12.547	V	TVE 2	30000
12.547	V	65_OCS-3	30000
12.547	V	REG CUATRO	30000
12.547	V	Test download	30000
12.547	V	EFE RADIO	30000
12.547	V	EXTREMADURA FM	30000
11.731	V	MOV HD	29000
11.731	V	National Geographic	29000
11.731	V	Sport TV 1 HD	27500
11.731	V	Teste TVCabo 1	29000
● 11.731	V	TVCine 4 HD	27500
11.731	V	Channel - 4	29000
11.731	V	RTP HD	27500
11.731	V	Teste TVCabo 2	27500
11.731	V	Teste TVCabo 3	27500
11.731	V	Teste TVCabo 4	27500
● 12.631	H	Test 2	30000
● 12.631	H	Test 3	30000

South America
HISPASAT 1C, 1D
330.1 East (29.9 West)

HIS01CKA

Freq GHz	Pol	Channel Name	Symbol rate
11.930	V	SCOPUS-NET-TECH	2220
11.936	V	CANAL UNIVERSITAR	5185
● 11.936	V	TELECARIBE COLOMB	5185
● 12.052	V	{Empty Name}	27500
● 12.132	H	Abu Dhabi TV	27500
● 12.132	H	Al-Iraqiya	27500
● 12.132	H	Jamahirya TV	27500
● 12.132	H	Oman TV	27500
● 12.132	H	Qatar TV	27500
● 12.132	H	Saudi TV	27500
● 12.132	H	Sharjah tv	27500
● 12.132	H	Sudan TV	27500
● 12.132	H	Syrian TV	27500
● 12.132	H	Yemen TV	27500
● 12.132	H	Aden Radio	27500
● 12.132	H	Emirates FM	27500
● 12.132	H	Main General Program	27500
● 12.132	H	Oman Radio	27500
● 12.132	H	Oman-Holy Quran	27500
● 12.132	H	Program One	27500
● 12.132	H	Quatar radio	27500
● 12.132	H	Radio Omduman Holy K	27500
● 12.132	H	Radio Quran	27500
● 12.132	H	Republic Of Iraq Rad	27500
● 12.132	H	Sana'a radio	27500
● 12.132	H	Sharja FM	27500
● 12.132	H	Sudan Radio	27500
● 12.132	H	Voice Of People	27500
● 12.132	H	Voice of Youth	27500
12.156	V	CANAL 6	2222
● 12.172	H	2M Moroc TV	27500
● 12.172	H	C CANARIAS TV	27500
● 12.172	H	KUWAIT CH2	27500
● 12.172	H	Kuwait TV	27500
● 12.172	H	MUSLIM TV	27500
● 12.172	H	PRESS TV	27500
● 12.172	H	TV Marti	27500
● 12.172	H	YOUTH SPORT	27500
● 12.172	H	2M Moroc Radio	27500
● 12.172	H	Kuwait R1	27500
● 12.172	H	Kuwait R2	27500
● 12.172	H	RFI English	27500
● 12.172	H	RFI Hispano	27500
● 12.172	H	RFI Hispasat1	27500
● 12.172	H	RFI Hispasat2	27500
● 12.172	H	RFI Luso	27500
● 12.172	H	RFI Newzik	27500
● 12.172	H	RFI Sky Hispano	27500
12.181	V	ENCUENTRO	3340

HIS01DKA

Freq GHz	Pol	Channel Name	Symbol rate
11.780	V	RDP-RTP	2387
11.820	V	CADENA-A	2387
11.884	V	Canal Habana	27500
11.884	V	Multivision	27500
11.884	V	ACN	27500
11.884	V	Cubavision	27500
11.884	V	Cubavision Internaci	27500
11.884	V	Educativo	27500
11.884	V	Educativo 2	27500
11.884	V	SCOPUS-NET-TECH	2220
11.884	V	Tele Rebelde	27500
11.884	V	CMBF	27500
11.884	V	Habana Radio	27500
11.884	V	Radio Enciclopedia	27500
11.884	V	Radio Habana Cuba	27500
11.884	V	Radio Progreso	27500
11.884	V	Radio Rebelde	27500
11.884	V	Radio Reloj	27500
11.884	V	Radio Taino	27500
● 11.910	V	Canal 12	5000
● 11.910	V	Canal 4	5000
● 11.910	V	Canal 5	5000
● 11.910	V	Rut	5000
● 11.910	V	TVCiudad	5000
● 11.910	V	CX20	5000
● 11.910	V	Radio_Cero	5000
● 11.910	V	Zoe	5000
● 11.937	V	CANAL UNIVERSITAR	7500
● 11.937	V	CANALINTERNACIONA	7500
● 11.937	V	TELECARIBE COLOMB	7500
● 12.141	V	Canal 8 MDP	3255
● 12.145	V	Canal7	4200
● 12.145	V	ORDEN7	4200
● 12.145	V	PANORA	4200
● 12.146	V	Canal7	4200
● 12.146	V	ORDEN7	4200
● 12.146	V	PANORA	4200
● 12.163	V	C11 - SALTA	3030
● 12.168	V	SOLO TANGO	5240
● 12.168	V	SUPREME MASTER TV	5240
● 12.168	V		5240
● 12.168	V	LV3	5240
● 12.168	V	RADIO 3 PATAGONIC	5240
● 12.168	V	RADIO COPERATIVA	5240
● 12.168	V	SIGLO XXI	5240
● 12.173	V	CANAL 21	2225

INTELSAT 907
332.5 East (27.5 West)

INT907EH

Freq GHz	Pol	Channel Name	Symbol rate
3.715	R	Ch. 50 - AF 1-2, AF	8448
3.715	R	Ch. 51 - AF 1-2, AF	8448
3.715	R	Ch. 52 - AF 1-2, AF	8448
3.715	R	Ch. 53 - AF 3-4, AF	8448
3.715	R	Ch. 58 - AF 1-8	8448
3.715	R	Ch. 60 - AF 1-2, AF	8448
3.715	R	Ch. 61 - AF 1-2, AF	8448
3.715	R	Ch. 62 - AF 1-2, AF	8448
3.715	R	Ch. 63 - AF 5-6, AF	8448
3.715	R	Ch. 64 - AF 3-4, AF	8448
3.715	R	Ch. 65 - AF 3-4, AF	8448
3.715	R	Ch. 66 - AF 5-6, AF	8448
3.715	R	Ch. 67 - AF 9-10, AF	8448
3.715	R	Ch. 68 - AF 13-14, A	8448
3.715	R	Ch. 8 - OS Downloa	8448
3.715	R	Ch. 9 - OS Downloa	8448
3.715	R	Channel 1	8448
3.762	R	Alhurra	30491
3.762	R	Feeds	30491
3.762	R	WorldNet	30491
3.762	R	Radio Farda	30491
3.762	R	RFE/Radio Liberty	30491
3.762	R	VoA News Now	30491
3.762	R	Voice of America	30491
3.849	R	RTP Mux	10850
3.898	R	NTA	2892
3.936	R		4550
4.050	R	Service 1	7000

INT907KE

Freq GHz	Pol	Channel Name	Symbol rate
11.516	V	INTELSAT _	5632
11.665	V	Region 2A Ch5	13020
11.665	V	Region 3A Ch5	13020
11.665	V	Region 4A Ch5	13020
11.665	V	Region 5A Ch5	13020

INT907WH

Freq GHz	Pol	Channel Name	Symbol rate
3.732	R	FREE-X TV	14000
3.732	R	Fashion TV	14000
3.732	R	Kurdsat	14000
3.732	R	RR Sat promo	14000
3.732	R	TGN	14000
3.732	R	The God Channel	14000
3.732	R	VTV 4	14000
3.732	R	TGN Radio	14000
3.732	R	TRT FM	14000

INTELSAT 905
335.5 East (24.5 West)

INT905CG

Freq GHz	Pol	Channel Name	Symbol rate
4.193	R	R-T-B	5180
11.521	V	TELEIPPICA	3333
11.674	V	Aaj Tak	27500
11.674	V	GEO	27500
11.674	V	GEO News	27500
11.674	V	NDTV 24x7	27500
11.674	V	Punjabi Just TV	27500
11.674	V	Sahara Filmy	27500
11.674	V	Sahara One	27500
11.674	V	SET Europe	27500
11.674	V	SET Max UK	27500
11.674	V	Star Gold	27500
11.674	V	Star One	27500
11.674	V	Star Plus	27500
11.674	V	NTA	27500
11.674	V	PTV Global	27500

INT905WH

Freq GHz	Pol	Channel Name	Symbol rate
3.729	R	Al Arabiya	13333
3.729	R	Al Jazeera	13333
11.025	V	Astro TV	4000
11.025	V	DUGA	4000
● 11.025	V	TV 24 SAT	4000
11.048	H	Argentinisima Sateli	14400
11.048	H	Aym Sports 1	14400
11.048	H	Azteca Novelas	14400
11.048	H	Cable Noticias	14400

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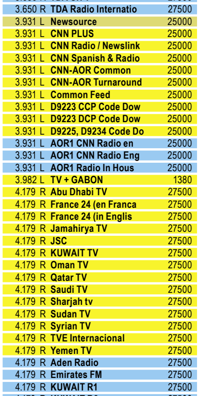
Freq GHz	Pol	Channel Name	Symbol rate
11.048	H	Cosmovision	14400
11.048	H	Ecuavisa Internacion	14400
11.048	H	once tv	14400
11.048	H	Rumba TV	14400
11.048	H	Tele Nostalgia	14400
11.048	H	TV Agro	14400
11.048	H	Radio-1	14400
11.048	H	Radio-2	14400
11.048	H	Radio-3	14400
11.048	H	Radio-4	14400
11.048	H	Radio-5	14400
11.048	H	Radio-6	14400
11.048	H	Radio-7	14400
11.048	H	Radio-8	14400
11.640	V	ITV MAIN	21100
11.675	V	Aaj Tak	27500
11.675	V	GEO	27500
11.675	V	GEO News	27500
11.675	V	NDTV 24x7	27500
11.675	V	Punjabi Just TV	27500
11.675	V	Sahara Filmy	27500
11.675	V	Sahara One	27500
11.675	V	SET Europe	27500
11.675	V	SET Max UK	27500
11.675	V	Star Gold	27500
11.675	V	Star One	27500
11.675	V	Star Plus	27500
11.675	V	NTA	27500
11.675	V	PTV Global	27500
North Africa, Europe			
NSS 7			
338.0 East (22.0 West)			
11.488	H	STV_USA	2170
11.563	H	INS Europe Interna	6111
● 11.605	H	Reuters WNS	4000
11.620	H	ch 1	2000
12.735	H	BOUCHAOUI_TDA3	16640
12.735	H	PROGRAMME NATIONA	16640
12.735	H	A3	16640
12.735	H	CANAL ALGERIE	16640
12.735	H	ADRAR	16640
12.735	H	AHAGGAR	16640
12.735	H	BATNA	16640
12.735	H	CHAINE 1	16640
12.735	H	CHAINE 2	16640
12.735	H	CHAINE 3	16640
12.735	H	ELWAHAT	16640
12.735	H	ESSOUHOUB	16640
12.735	H	GHARDAIA	16640
12.735	H	ILLIZI	16640
12.735	H	JIJEL	16640
12.735	H	NAAMA	16640
12.735	H	RADIO INTERNATION	16640
12.735	H	Radio20	16640
12.735	H	SAHEL	16640
12.735	H	SAOURA	16640
12.735	H	SOUF	16640
12.735	H	SOUK AHRAS	16640
12.735	H	TINDOUF	16640
12.735	H	TLEMCEN	16640
C-Band: NSS 7			
338.1 East (21.9 West)			
4.116	L	Atlantic	3680
4.116	L	News	3680
4.116	L	Sports	3680
3.650	R	EQUIDIA PRO	27500
3.650	R	WALF TV	27500
3.650	R	2M MAROC	27500
3.650	R	AL Maghribiya	27500
3.650	R	CANAL ALGERIE	27500
3.650	R	TELE..CONGO	27500
3.650	R	Vox Africa	27500
3.650	R	Walf 1	27500
3.650	R	COFRAC	27500
3.650	R	RADIO 2M	27500
3.650	R	Radio Congo	27500
3.650	R	RTBF International	27500
3.650	R	TDA CH 1	27500
3.650	R	TDA Radio Internatio	27500
3.931	L	Newsource	25000
3.931	L	CNN PLUS	25000
3.931	L	CNN Radio / Newslink	25000
3.931	L	CNN Spanish & Radio	25000
3.931	L	CNN-AOR Common	25000
3.931	L	CNN-AOR Turnaround	25000
3.931	L	Common Feed	25000
3.931	L	D9223 CCP Code Dow	25000
3.931	L	D9223 DCP Code Dow	25000
3.931	L	D9225, D9234 Code Do	25000
3.931	L	AOR1 CNN Radio en	25000
3.931	L	AOR1 CNN Radio Eng	25000
3.931	L	AOR1 Radio In Hous	25000
3.982	L	TV + GABON	1380
4.179	R	Abu Dhabi TV	27500
4.179	R	France 24 (en Franca	27500
4.179	R	France 24 (in Englis	27500
4.179	R	Jamahirya TV	27500
4.179	R	JSC	27500
4.179	R	KUWAIT TV	27500
4.179	R	Oman TV	27500
4.179	R	Qatar TV	27500
4.179	R	Saudi TV	27500
4.179	R	Sharjah tv	27500
4.179	R	Sudan TV	27500
4.179	R	Syrian TV	27500
4.179	R	TVE Internacional	27500
4.179	R	Yemen TV	27500
4.179	R	Aden Radio	27500
4.179	R	Emirates FM	27500
4.179	R	KUWAIT R1	27500
4.179	R	KUWAIT R2	27500
4.179	R	Main General Program	27500
4.179	R	Oman Radio	27500
4.179	R	Oman-Holy Quran	27500
4.179	R	Program One	27500
4.179	R	Quatar radio	27500
4.179	R	Radio 1	27500
4.179	R	Radio Exterior	27500
4.179	R	Radio Omduman Holy K	27500
4.179	R	Radio Quran	27500
4.179	R	Sana'a radio	27500
4.179	R	Sharja FM	27500
4.179	R	Sudan Radio	27500
4.179	R	Voice Of People	27500
4.179	R	Voice of Youth	27500

NSS007WH



Freq GHz	Pol	Channel Name	Symbol rate
3.725	L	TELE Africa	1462
3.761	R	Bolivian Mux	22650
3.948	R	Samanyolu TV Amerika	2200
3.644	R	EQUIDIA PRO	27500
3.644	R	WALF TV	27500
3.644	R	2M MAROC	27500
3.644	R	AL Maghribiya	27500
3.644	R	CANAL ALGERIE	27500
3.644	R	TELE..CONGO	27500
3.644	R	Vox Africa	27500
3.644	R	Walf 1	27500
3.644	R	COFRAC	27500
3.644	R	RADIO 2M	27500
3.644	R	Radio Congo	27500
3.644	R	RTBF International	27500
3.644	R	TDA CH 1	27500
3.644	R	TDA Radio Internatio	27500
Europe, North Africa			
INTELSAT 901			
342.0 East (18.0 West)			
11.056	H	TELEREPORTER SUD	1950
11.156	H	CONADTV	1600

Freq GHz	Pol	Channel Name	Symbol rate
11.678	H	NBA Path 2	28570
11.678	H	NBA Path 3	28570
11.678	H	NBA TV Europe	28570
C-Band: INTELSAT 901			
342.1 East (17.9 West)			
3.718	L	AIT-MOVISTAR	2480
3.791	R	AIT-INT-USA	4340
3.798	R	AIT - LAGOS.	4340
3.803	R	AIT LAGOS	2894
3.808	R	DAAR New York	4340
3.813	R	AIT-ABUJA	2480
Europe			
TELSTAR 12			
345.0 East (15.0 West)			
11.062	H	CNBC	19280
11.062	H	E! EME	19280
11.062	H	E! EMEA	19280
11.062	H	The Style Network	19280
11.124	H	Club Europe	18386
11.124	H	Extreme Sports	18386
11.124	H	JimJam ME	18386
11.124	H	Nat Geo Poland	18386
11.124	H	Reality TV	18386
11.150	H	Club CE	18386
11.150	H	Club/Irisz	18386
11.150	H	Extreme France	18386
11.150	V	History Channel	19275
11.150	V	JimJam EMEA	19275
11.150	H	NatGeo Romenia	18386
11.150	V	NatGeo Wild	19275
11.150	H	Playboy TV NL	18386
11.150	H	Reality Asia	18386
11.150	H	Reality EMEA	18386
11.150	V	Reality Poland	19275
● 11.150	H	TEST	18386
11.150	H	ASDA ENG	18386
11.150	H	ASDA SCO	18386
11.150	H	Carpet Right FM	18386
11.150	V	EPG	19275
11.150	H	Makro FM	18386
11.150	V	Nagra Guide	19275
11.150	H	PC World FM	18386
11.678	V	Reform TV	2200
12.524	V	Atlantic	26470
12.524	V	ESPN	26470
12.524	V	ESPN2	26470
12.524	V	ESPN2 Caribbean	26470
12.524	V	Latin America Caribb	26470
12.524	V	Middle East	26470
12.524	V	Pac Rim	26470
12.524	V	VC/Occassional Pal	26470
12.524	V	Download Channel	26470
12.545	H	ATN 1	11900
12.545	H	ATN 2	11900
12.545	H	CNN HDLN	11900
12.545	H	CNN LIVE	11900
12.545	H	FOX	11900
12.545	H	Pentagon	11900
12.545	H	QUAD ISR	11900
12.589	V	Simaye-Azadi	4503
12.608	H	ADTH COMBO	19279
12.608	H	ETV	19279
12.608	H	Phoenix InfoNews	19279
12.608	H	AGHAPY TV	19279
12.608	H	BBC PERSIAN	19279
12.608	H	Hwazan	19279
12.608	H	MAC TV	19279
12.608	H	TZUCHI	19279
12.608	H	VOA Persian	19279
12.608	H	Farda Radio	19279
12.608	H	Radio Sedaye Iran	19279
12.608	H	VOA Radio	19279
12.615	V	ARIA MEHR TV	11938
12.615	V	ARIA TV	11938
12.615	V	CASPIAN TV	11938
12.615	V	Gunaz TV	11938
12.615	V	Scopus Net Tech	11938
12.615	V	Kol Haneshama	11938
● 12.645	H	EARTH TV	3255
● 10.988	H	PBL Service 1B	2893
● 10.992	H	PBL Service 2A	2893
America			
TELSTAR 12			
345.1 East (14.9 West)			
11.740	V	American Clean Feed	3255
11.740	V	Racing International	3255
11.741	V	American Clean Feed	3255
11.741	V	Racing International	3255
11.806	V	AL- ALAM	7596
11.806	V	IRINN	7596
11.806	V	JAM-E-JAME2	7596
11.806	V	IRIB1	7596
11.806	V	IRIB4	7596
11.806	V	IRIB5	7596
11.806	V	RADIO IRAN	7596
11.806	V	RADIO MAAREF	7596
11.806	V	RADIO QURAN	7596
● 11.806	V	RADIO SEDAYE ASHN	7596
11.964	H	BULGARIAN NATIONA	14714
11.964	H	SP TV	14714
● 11.964	H	TPAI	14714
11.964	H	TRACE TV	14714
11.964	H	HIT RADIO	14714
11.974	V	BVN	3400
11.974	V	RNW1 (dut)	3400
11.974	V	RNW2 (eng)	3400
11.974	V	RNW3 (spa/por)	3400
11.974	V	RNW5	3400
11.974	V	RNW6	3400
11.974	V	RVI 1 (vl)	3400
● 12.083	H	Latin America	3935
12.168	H	TV PAMPA	3503
● 12.175	H	PAMPA S.MARIA	3504
Europe, South Africa			
TELSTAR 12			
345.2 East (14.8 West)			
11.062	H	CNBC	19280
11.062	H	E! EME	19280
11.062	H	E! EMEA	19280
11.062	H	The Style Network	19280
11.150	H	Club CE	18386
11.150	H	Club/Irisz	18386
11.150	H	Extreme France	18386
11.150	H	NatGeo Romenia	18386
11.150	H	Playboy TV NL	18386
11.150	H	Reality Asia	18386
11.150	H	Reality EMEA	18386
● 11.150	H	TEST	18386
11.150	H	ASDA ENG	18386
11.150	H	ASDA SCO	18386
11.150	H	Carpet Right FM	18386
11.150	H	Makro FM	18386
11.150	H	PC World FM	18386
11.518	H	DAD-4 FIBER TX-54	3744
11.526	H	DAD-5 FT-55	3200
11.532	H	MSNBC	3200
● 11.537	H	BTV-1	4284
11.537	H	BTV-4	4284
11.565	H	EuropeSoAfrica	5625
11.685	H	Mass Response 4	2965
11.690	H	Mass Response 2	3255
12.545	H	ATN 1	11900
12.545	H	ATN 2	11900
12.545	H	CNN HDLN	11900
12.545	H	CNN LIVE	11900
12.545	H	FOX	11900
12.545	H	Pentagon	11900
12.545	H	QUAD ISR	11900
12.608	H	ADTH COMBO	19279
12.608	H	ETV	19279
12.608	H	Phoenix InfoNews	19279
12.608	H	AGHAPY TV	19279
12.608	H	BBC PERSIAN	19279
12.608	H	Hwazan	19279
12.608	H	MAC TV	19279
12.608	H	TZUCHI	19279
12.608	H	VOA Persian	19279
12.608	H	Farda Radio	19279
12.608	H	Radio Sedaye Iran	19279
12.608	H	VOA Radio	19279
● 12.645	H	EARTH TV	3255
12.657	H	TELEMEDIA UK 1	3255
● 12.662	H	CNBC EUR0PE MADRI	2893

Freq GHz	Pol	Channel Name	Symbol rate
South America			
TELSTAR 12			
345.3 East (14.7 West)			
11.804	V	IRINN	7595
11.965	H	SP TV	14714
11.974	H	BVN	13570
12.000	H	Latin America	6666
12.050	H	TV PAMPA	3198
12.167	H	PAMPA RECORD	3504
EXPRESS A4			
346.0 East (14.0 West)			
3.675	R	1TVRUS zapad	29615
3.675	R	RTR Planeta+RR	29615
11.514	V	Newroz TV	2960
11.524	V	Vin	2970
11.532	V	Gali	3003
Europe			
ATLANTIC BIRD 1			
347.5 East (12.5 West)			
11.100	H	LIFE CHANNEL	2000
11.132	H	BH-TV1	3254
11.132	H	BH-Radio1	3254
11.177	H	FOX TV	7596
11.177	H	SVET PLUS	7596
11.177	H	ROADSTAR RADIO	7596
11.185	V	SET Portugal	13657
11.185	V	Bainet Sat	13657
11.185	V	Program 702	13657
11.185	V	Program 705	13657
11.331	H	Exotica Channel	6000
11.331	H	Touch TV	6000
11.337	H	CCTV 4	1923
11.340	H	Cancao Nova Internac	2279
11.355	H	ESP2 Hungary	11781
11.355	H	ESP2 Romania	11781
11.355	H	TBi	11781
11.355	H	CYFRA+ GRY	11781
11.355	H	CYFRA+ GRY2	11781
11.355	H	INFO+	11781
11.355	H	Music Ch. Dance	11781
11.355	H	Music Ch. Oldies	11781
11.355	H	Music Ch. Rock	11781
11.355	H	Music Ch. Swiat	11781
11.355	H	Music Ch. Urban	11781
11.355	H	Music Choice 1	11781
11.355	H	Music Choice 2	11781
11.355	H	Music Choice 3	11781
11.355	H	Music Choice 4	11781
11.355	H	Music Choice 5	11781
11.355	H	Music Choice 6	11781
11.355	H	Music Choice 7	11781
11.355	H	Music Choice Pop	11781
11.355	H	MusicC. Klasyka	11781
11.387	H	Boomerang Germany	27500
11.387	H	CN Germany	27500
11.387	H	Dorcel TV	27500
11.387	H	MTV IDOL	27500
11.387	H	MTV PULSE	27500
11.387	H	NATIONAL GEO	27500
11.387	H	TCM Germany	27500
11.387	H	BETHEL TV	27500
11.387	H	Canale 8	27500
● 11.387	H	HOLIDAY SAT_GOLD	27500
11.387	H	KJC	27500
● 11.387	H	Laurenti Channel	27500
11.387	H	LAZIO CHANNEL	27500
11.387	H	Liberty TV NL	27500
11.387	H	NSTV	27500
11.387	H	Telecolore	27500
12.515	H	Cartapiu' A	17452
12.515	H	Cartapiu' B	17452
12.515	H	Cartapiu' C	17452
12.515	H	Cartapiu' D	17452
12.515	H	LA7	17452
12.515	H	QOOB	17452
12.515	H	PIU' SERVIZI	17452
12.529	V	ITA 302 Videobank 1	1550
12.529	V	OASI TV	1550
12.529	V	OASI TV	1550
12.546	H	LA7	17454
12.546	H	MTV ITALIA	17454
● 12.546	H	Sardegna1 SAT	17454
12.578	V	SSN TV	5860
12.578	V	Radio Azadegan	5860
12.578	V	Radio Dijla	5860
12.597	H	Extra 3	1910
12.632	V	RIT	2141
12.637	V	Record Internacional	4285
EXPRESS A3			
349.0 East (11.0 West)			
3.675	R	1TVRUS zapad	29615
3.675	R	RTR Planeta+RR	29615
11.516	V	ATV BL	7780
11.516	V	FTV	7780
11.516	V	RTRS	7780
Europe			
ATLANTIC BIRD 2			
352.0 East (8.0 West)			
10.970	H	AL SAFWA	27500
10.970	H	AL YAWM	27500
10.970	H	CINEMA 1	27500
10.970	H	CINEMA 2	27500
10.970	H	FANN	27500
10.970	H	GMA LIFE TV	27500
10.970	H	GMA Pinoy TV	27500
10.970	H	HISTORY CHANNEL	27500
10.970	H	HOLLYWOOD	27500
10.970	H	NBA TV	27500
10.970	H	NBN PINOY NEWS	27500
10.970	H	SERIES+4	27500
10.970	H	SUPER MOVIES+1	27500
10.970	H	TCM	27500
10.970	H	GMA DWLS FM	27500
10.972	V	Body in Balance	27500
10.972	V	Channel One Russia	27500
10.972	V	Euro Star	27500
10.972	V	Euronews English	27500
10.972	V	Euronews French	27500
10.972	V	Euronews Italy	27500
10.972	V	Euronews Portugese	27500
10.972	V	Euronews Russia	27500
10.972	V	Euronews Spain	27500
10.972	V	Kinowelt	27500
10.972	V	LigTV	27500
10.972	V	PinkPlus	27500
10.972	V	RTR Planeta	27500
10.972	V	Al Jazeera	27500
10.972	V	France 24	27500
11.010	H	AMERICA PLUS +2	27500
11.010	H	ANIMAL PLANET	27500
11.010	H	BBC PRIME	27500
11.010	H	BOOMERANG	27500
11.010	H	CARTOON NETWORK	27500
11.010	H	CINEMA CITY +1	27500
11.010	H	DISCOVERY CHANNEL	27500
11.010	H	DISCOVERY T&L	27500
11.010	H	DISNEY CHANNEL	27500
11.010	H	ORBIT NEWS	27500
● 11.010	H	ORBIT NEWS 2	27500
11.010	H	SUPER COMEDY +2	27500
11.010	H	TOON DISNEY	27500
11.010	H	CNNI	27500
11.010	H	e-GMA DZBB	27500
11.010	H	e-KHALIJYA'T	27500
11.010	H	e-MONAWA'T	27500
11.010	H	e-TARABIYA'T	27500
11.011	V	ATV Avrupa	27500
11.011	V	EuroD	27500
11.011	V	FOX Turk	27500
11.011	V	Kanal7 Int	27500
11.011	V	Rai Due	27500
11.011	V	Rai Tre	27500
11.011	V	Rai Uno	27500
11.011	V	Show Turk	27500
11.011	V	TRT Int	27500
11.011	V	TurkMax	27500
11.011	V	TV Polonia	27500
11.387	H	13TH Street	24740
11.387	H	AXN	24740
11.387	H	Biography Channel	24740
11.387	H	Boomerang	24740
11.387	H	Cartoon Network	24740
11.387	H	Motors TV Deutschlan	24740
11.387	H	NASN	24740

Freq GHz	Pol	Channel Name	Symbol rate
11.387	H	National Geographic	24740
11.387	H	Sci Fi Deutschland	24740
11.387	H	Silverline	24740
11.387	H	The History Channel	24740
11.387	H	Turner Classic Movie	24740
11.427	H	BBC Prime	27500
11.427	H	E! Entertainment (D/	27500
11.427	H	E! Entertainment (PL	27500
● 11.427	H	E! Entertainment (TR	27500
11.427	H	Romance TV	27500
11.427	H	RTVi Detskii Mir -	27500
11.427	H	RTVi Nashe Kino	27500
11.427	H	sportdigital.tv	27500
11.427	H	yourfamily	27500
11.427	H	RTVi Europe	27500
11.427	H	blu.fm	27500
12.539	H	K3 Kulturkanal	3038
● 12.566	V	MediaproHD2	27500
12.649	V	Adult Channel	27500
12.649	V	Blue Hustler	27500
12.649	V	Bundesliga 1 - Kabel	27500
12.649	V	Bundesliga 2 - Kabel	27500
12.649	V	Bundesliga 3 - Kabel	27500
12.649	V	Bundesliga 4 - Kabel	27500
12.649	V	Bundesliga 5 - Kabel	27500
12.649	V	Bundesliga 6 - Kabel	27500
12.649	V	Bundesliga 7 - Kabel	27500
12.649	V	Bundesliga 8 - Kabel	27500
12.649	V	Bundesliga home - Ka	27500
12.649	V	Bundesliga info - Ka	27500
12.649	V	ESPN Classic	27500
● 12.649	V	rush test	27500
12.649	V	Super Sports Network	27500
12.649	V	TVN I Europe	27500
● 12.649	V	Yacht & Sail	27500
12.649	V	KabelKiosk - Infokan	27500
ATLANTIC BIRD 2			
352.0 East (8.0 West)			
10.976	V	Dubai Business Chann	30000
10.976	V	Dubai Sports Channel	30000
10.976	V	EDTV Channel Europ	30000
10.976	V	EDTV Radio 1	30000
10.976	V	EDTV Radio 2	30000
ATLANTIC BIRD 2			
352.0 East (8.0 West)			
11.057	H	AL SAFWA	27500
11.057	H	AL YAWM	27500
11.057	H	CINEMA 1	27500
11.057	H	CINEMA 2	27500
11.057	H	FANN	27500
11.057	H	FUN CHANNEL	27500
11.057	H	GMA Pinoy TV	27500
11.057	H	HISTORY CHANNEL	27500
11.057	H	HOLLYWOOD	27500
11.057	H	NBA TV	27500
11.057	H	NBN PINOY NEWS	27500
11.057	H	PBO	27500
11.057	H	SERIES	27500
11.057	H	SERIES+4	27500
11.057	H	SUPER MOVIES+1	27500
11.057	H	TCM	27500
11.553	V	Al Nahrin	25775
11.553	V	Aliraqiya Sports	25775
11.553	V	Almajd Alhadith Alnb	25775
11.553	V	Alqeetharah promo	25775
11.553	V	Alsaha promo	25775
11.553	V	Alsalam	25775
11.553	V	Angham	25775
11.553	V	I.M.G	25775
11.553	V	TalaVision	25775
11.553	V	Test 10	25775
11.553	V	Test 11	25775
11.553	V	Test 12	25775
11.595	V	Afaak TV	25775
11.595	V	Al Hurria TV	25775
11.595	V	Al Masar TV	25775
11.595	V	Alatheer promo	25775
11.595	V	Alwasta	25775
11.595	V	Babel TV promo	25775
11.595	V	Feeds (MC_ERTU)	25775
11.595	V	Ghinaeya	25775
11.595	V	Kurdistan TV	25775
11.595	V	Turkmeneli TV	25775
11.595	V	Radio Turkmeneli	25775
12.748	H	Radio	1100
Middle East			
NILESAT 101, 102, ATLANTIC BIRD 4			
353.0 East (7.0 West)			

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Freq GHz	Pol	Channel Name	Symbol rate
10.719	V	Al Afasy Quran TV	27500
10.719	V	ALinsaniya	27500
10.719	V	ALJazeera Children	27500
10.719	V	ASC	27500
10.719	V	Cairo Cinema	27500
10.719	V	Hannibal Orient	27500
10.719	V	JSC Documentry	27500
10.719	V	JSC Mubasher	27500
10.719	V	Press TV	27500
10.719	V	RSC TV	27500
10.719	V	Test 12	27500
10.719	V	Test 4	27500
10.728	H	LIBYA EDU	38500
10.728	H	SESAT LJB -TEST	38500
10.757	V	Al Rayah	27500
10.757	V	Al Saeeda	27500
10.757	V	AL-Atheer	27500
10.757	V	AL-Mergab	27500
10.757	V	Al-Shoroq	27500
10.757	V	ALMAJD9	27500
10.757	V	Harmony TV	27500
10.757	V	Mersal	27500
10.757	V	OK TV	27500
10.757	V	Sada TV	27500
10.757	V	Sahoor	27500
10.757	V	Test	27500
10.757	V	Test	27500
10.757	V	WOW	27500
10.757	V	ALKawther FM92	27500
10.795	V	Addounia	27500
10.795	V	Al Mukhtalif	27500
10.795	V	AL Tejariah	27500
10.795	V	AL-Amaken	27500
10.795	V	Fanoos	27500
10.795	V	Goal TV	27500
10.795	V	Khalijiah	27500
10.795	V	KurdSat	27500
10.795	V	Massaya	27500
10.795	V	Melody Tunes	27500
10.795	V	Nassr Club TV	27500
10.795	V	Oman TV2	27500
10.795	V	Tunis 7	27500
10.795	V	Zagros	27500
10.795	V	Tunis Culture	27500
10.795	V	Tunis International	27500
10.795	V	Tunis National	27500
10.795	V	Zitouna Tunisie	27500
10.834	V	Al Badr	27500
10.834	V	Al Forqan	27500
10.834	V	Al Iraqia	27500
10.834	V	AL-Anbar	27500
10.834	V	Cairo-Univ1	27500
10.834	V	Daleel TV	27500
10.834	V	Iraqia Atyaf	27500
10.834	V	Iraqia Mubasher	27500
10.834	V	Najah 2	27500
10.834	V	Temp1	27500
10.834	V	Temp2	27500
10.834	V	Test	27500

Freq GHz	Pol	Channel Name	Symbol rate
10.834	V	Tunisie 21	27500
10.834	V	Algeel Radio	27500
10.834	V	Baghdad Radio	27500
10.834	V	Shahrazad Radio	27500
10.834	V	Test	27500
10.853	H	2M Maroc	27500
10.853	H	A3mal	27500
10.853	H	Afak	27500
● 10.853	H	Al Hekma	27500
10.853	H	Al Rahma	27500
10.853	H	ALLORD	27500
10.853	H	Assaa	27500
10.853	H	Dream Sport	27500
10.853	H	LifeStyle TV	27500
10.853	H	Marina TV	27500
10.853	H	Melody TRIX	27500
10.853	H	MODERN	27500
10.853	H	Modern Sport	27500
10.930	H	ESPN	27500
10.930	H	ESPN Classic	27500
10.930	H	ESPN NASN	27500
10.930	H	INDUS VISION	27500
10.930	H	Aaj TV	27500
● 10.930	H	ADSC3	27500
10.930	H	Aghanina	27500
10.930	H	AL-BABELEYA	27500
10.930	H	AL-ORDON GHAIR	27500
10.930	H	Alamhawa	27500
10.930	H	Aletejah TV	27500
10.930	H	ARAB TV	27500
10.930	H	Live TV	27500
10.930	H	Petra TV	27500
● 10.930	H	Test	27500
12.341	V	AL Aan	27500
12.341	V	ASIA BUSINESS TV	27500
12.341	V	Clicktv	27500
12.341	V	DECISION MAKER TV	27500
12.341	V	Dubai Sports 2	27500
12.341	V	FATAFEAT	27500
12.341	V	MBC Persia	27500
12.341	V	NDTV ARABIA	27500
12.341	V	NDTV IMAGINE	27500
12.341	V	RAK TV	27500
12.341	V	Space Toon English	27500
12.360	H	A LPHA Shop	27500
12.360	H	Al Ahly TV	27500
12.360	H	Al Badeel	27500
12.360	H	Al Hafez	27500
12.360	H	Al Mowselya TV	27500
12.360	H	ALLIBIYA	27500
12.360	H	ALSALAM	27500
12.360	H	ANN TV	27500
12.360	H	DIJLA	27500
12.360	H	LIBYA AL-RIADHIA	27500
12.360	H	LIBYA AL-RIADHIA	27500
12.360	H	Panorama Drama	27500
12.360	H	SCOPE Tv	27500
12.360	H	Test	27500
12.360	H	ALLIBIYA FM1	27500
12.360	H	AlSalam Radio	27500
12.399	H	AL-Adalah	27500
12.399	H	ALHURRIA TV	27500
12.399	H	ALMasar TV	27500
● 12.399	H	EVE	27500
12.399	H	Ghinaeya	27500
12.399	H	Iraqia Sport	27500
12.399	H	Kurdistan TV	27500
12.399	H	Lebanon TV	27500
12.399	H	Libya AlShababiyah	27500
12.399	H	Moga Comedy TV	27500
● 12.399	H	ON TV	27500
12.399	H	Test	27500
12.399	H	TURKMEN TV	27500
12.399	H	ALJamaherey R	27500
12.399	H	Iraqia Quran	27500

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Freq GHz	Pol	Channel Name	Symbol rate
11.747	V	A.B.C.AQTSADIA TV	27500
11.747	V	Abu Dhabi TV	27500
11.747	V	Al Forat	27500
11.747	V	AL Wasta	27500
11.747	V	AL-Fajr	27500
11.747	V	Al.Manara.(sci.ch)	27500
11.747	V	Beladi	27500
11.747	V	EDUC 1	27500
11.747	V	EDUC 2	27500
11.747	V	EDUC 3	27500
11.747	V	EDUC 4	27500
11.747	V	Huda TV	27500
11.747	V	Salah EL-Din	27500
11.747	V	Sehaty	27500
11.747	V	Tamima	27500
11.747	V	TEST	27500
11.747	V	UNIV 1	27500
11.747	V	Abu Dhabi Radio	27500
11.747	V	Alforat	27500
11.766	H	AL HIDAYAH	27500
11.766	H	AL Hurra Iraq	27500
11.766	H	Al Mishkat	27500
11.766	H	AL MONOWA	27500
11.766	H	Alrai TV	27500
11.766	H	BBCW	27500
11.766	H	Ch 1	27500
● 11.766	H	ERTU	27500
11.766	H	ESC 1	27500
11.766	H	FOXMOVIES	27500
11.766	H	Jaras TV	27500
11.766	H	NileTV	27500
11.766	H	Rotana Cinema	27500
11.766	H	TEST	27500
11.766	H	AL-Aghani	27500
11.766	H	AL-Akhbar	27500
11.766	H	AL-bernameg AL-aam	27500
11.766	H	AL-bernameg AL-Abery	27500
11.766	H	AL-Bernameg AL-mouss	27500
11.766	H	AL-bernameg AL-orobi	27500
11.766	H	AL-Kahera Al-Kobra	27500
11.766	H	AL-Kebar	27500
11.766	H	AL-Menia	27500
11.766	H	AL-Quran AL_Karem	27500
11.766	H	AL-shabab Wa AL-reya	27500
11.766	H	AL-Sharg AL-awsat	27500
11.766	H	Matrouh	27500
11.766	H	Mowagahat-3	27500
11.766	H	Mowagahat-4	27500
11.766	H	Mowagahat-5	27500
11.766	H	North Sinai	27500
11.766	H	Sout AL-arab	27500
11.766	H	South Sinai	27500
11.766	H	Wadi Al-neil & Phala	27500
11.766	H	Wasat-ALdelta	27500
11.766	H	WRN Sawt Al-Alam	27500
11.785	V	AL SHARJAH TV	27500
11.785	V	AL SHARQIA	27500
11.785	V	CNBC ARABIA	27500
11.785	V	Dubai One	27500
11.785	V	Dubai Racing Channel	27500
11.785	V	Dubai Sports	27500
11.785	V	Dubai TV	27500
11.785	V	MUSIC PLUS	27500
11.785	V	NOJOOM 1	27500
11.785	V	Sama Dubai	27500
11.785	V	SPACETOON ARABIC	27500
11.785	V	AL SHARJAH RADIO	27500
11.785	V	EDTV Radio 1	27500
11.785	V	EDTV Radio E	27500
11.804	H	Animal Planet	27500
11.804	H	ARY	27500
11.804	H	ASIA	27500
11.804	H	B4M	27500

Freq GHz	Pol	Channel Name	Symbol rate
11.804	H	B4UM	27500
11.804	H	Discovery Science	27500
11.804	H	FOXN	27500
11.804	H	FSPR	27500
11.804	H	JXA1	27500
11.804	H	RTV	27500
11.804	H	S-ONE	27500
11.804	H	SKYN	27500
11.804	H	STARN	27500
11.804	H	TENSP	27500
11.804	H	UKTV	27500
11.823	V	AL MAGHRIBIA	27500
11.823	V	Al-Resala	27500
11.823	V	Alhurra	27500
11.823	V	AlThuraya	27500
11.823	V	Bahrain	27500
11.823	V	Kuwait	27500
11.823	V	Kuwait Sport & +	27500
11.823	V	Mehwer	27500
11.823	V	Oman	27500
11.823	V	PSC	27500
11.823	V	Sudan	27500
11.823	V	Syria	27500
11.823	V	Test	27500
11.823	V	KW Radio	27500
11.823	V	Kw Sp Radio	27500
11.823	V	NEW FM Oman	27500
11.823	V	Oman -Quran	27500
11.823	V	Oman Arabic Radio	27500
11.823	V	Oman English Radio	27500
11.823	V	Syria R1	27500
11.823	V	Syria R2	27500
11.823	V	Syria R3	27500
11.843	H	AL Saha 2	27500
11.843	H	AlJamahirya	27500
11.843	H	Dream2	27500
11.843	H	Fashion	27500
11.843	H	FUNoon	27500
● 11.843	H	Nile Cinema	27500
11.843	H	Nile Culture	27500
11.843	H	Nile Drama	27500
11.843	H	Nile Family	27500
11.843	H	Nile Life	27500
11.843	H	Nile News	27500
11.843	H	Nile Sport	27500
11.843	H	Sham TV	27500
11.843	H	Sowalif	27500
11.843	H	Al bernameg AL theka	27500
11.843	H	ALWadi ALGaded	27500
11.843	H	ART Radio	27500
11.843	H	Aswan	27500
11.843	H	Bakous Alexandaria	27500
11.843	H	BBC (A)	27500
11.843	H	BBC (E)	27500
11.843	H	Mawagahat-6	27500
11.843	H	Mowagahat-1	27500
11.843	H	Mowagahat-2	27500
11.843	H	Mowagahat-8	27500
11.843	H	Radio Farda	27500
11.843	H	Radio Sawa Iraq	27500
11.843	H	Radio Sawa Levant	27500
11.843	H	Radio Sawa Sudan	27500
11.843	H	Radio VOA Iraq	27500
11.843	H	RMC MO	27500
11.843	H	Umdorman Radio	27500
11.862	V	Disney Channel	27500
11.862	V	E! Entertainment	27500
11.862	V	JimJam/Extreme	27500
11.862	V	Nat Geo Wild	27500
11.862	V	ShowComedy Xtra	27500
11.862	V	ShowShasha	27500
11.862	V	ShowShasha Extra	27500
11.862	V	Al Waha	27500
11.862	V	Chatco	27500
11.862	V	City 7 TV	27500
11.862	V	Nojoom 3	27500
11.862	V	ShowToday	27500
11.862	V	TXT	27500
11.862	V	Arabic EPG	27500
11.881	H	Alf/N	27500
11.881	H	GEO TV	27500
11.881	H	GOLD	27500
11.881	H	JAYA	27500
11.881	H	MOV	27500
11.881	H	NAGE	27500
11.881	H	NDTV	27500
11.881	H	PLUS	27500
11.881	H	SET	27500
11.881	H	SETMX	27500
11.881	H	VINDI	27500
11.881	H	VINT	27500
11.881	H	WLD	27500
11.881	H	ZMOV	27500
11.881	H	ZTV	27500
11.881	H	SPARE1	27500
11.881	H	SPARE2	27500
11.881	H	Mazaj FM	27500
11.900	V	ASNshop	27500
11.900	V	Dream	27500
11.900	V	DW-TV ARABIA	27500
11.900	V	ETV	27500
11.900	V	Kuwait Ch.2	27500
11.900	V	Majd	27500
11.900	V	Mazzika	27500
11.900	V	Mazzika Zoom	27500
11.900	V	Melody Hits	27500
11.900	V	Oyoun TV	27500
11.900	V	Sahm TV	27500
11.900	V	TV5	27500
11.900	V	Xpress Shop	27500
11.900	V	DW A1	27500
11.900	V	DW A2	27500
11.900	V	NILE 1	27500
11.900	V	Nogoom Radio Ch	27500

NIL102KB

Freq GHz	Pol	Channel Name	Symbol rate
11.919	H	Al NAS TV	27500
11.919	H	Al Saha TV	27500
11.919	H	Al-Kawthar	27500
11.919	H	ALBAGHDADIA	27500
11.919	H	ALRAFIDEN	27500
11.919	H	BAGHDAD TV	27500
11.919	H	Flash TV	27500
11.919	H	Iraqia TV	27500
11.919	H	Poet	27500
● 11.919	H	STV	27500
● 11.919	H	Test	27500
11.919	H	UNIV2	27500
11.919	H	Waseet EL-Khair	27500
11.919	H	Yemen	27500
11.919	H	AlAlam Radio1	27500
11.919	H	DAR ALSALAM Radio	27500
11.919	H	NIS Cesium	27500
11.919	H	Test	27500
11.919	H	Yemen R1	27500
11.919	H	Yemen R2	27500
11.938	H	AL AQARIYA	27500
11.938	H	AL EQTISADIA TV	27500
11.938	H	Alarabiya	27500
11.938	H	CITRUSS TV	27500
11.938	H	HAWAS TV	27500
11.938	H	MBC Action	27500
● 11.938	H	MBC MAX	27500
11.938	H	MBC1	27500
11.938	H	MBC2	27500
11.938	H	MBC3	27500
11.938	H	MBC4	27500
11.938	H	ZEE AFLAM	27500
11.938	V	Jeddah FM	27500
11.938	V	MBC FM	27500

Freq GHz	Pol	Channel Name	Symbol rate
11.938	V	MBC FM ER	27500
11.938	V	Panjordan	27500
11.938	V	Panorama FM	27500
11.938	V	Riyadh FM	27500
11.957	H	PrSPR	27500
11.957	H	SPRT1	27500
11.957	H	SPRT2	27500
11.957	H	SPRT3	27500
11.957	H	SPRT4	27500
11.957	H	SPRT5	27500
11.957	H	SPRT6	27500
11.957	H	SPRT7	27500
11.957	H	SPRT8	27500
11.957	H	SPRT9	27500
11.957	H	TBO	27500
11.976	V	Bloomberg	27500
● 11.976	V	Concierge TV	27500
11.976	V	Fashion TV	27500
11.976	V	MBC+	27500
11.976	V	ShowCinema 1	27500
11.976	V	ShowCinema 2	27500
11.976	V	ShowCinema 3	27500
11.976	V	SOD	27500
11.976	V	Style Network	27500
11.976	V	T2010	27500
11.976	V	Future News	27500
11.976	V	MTV Arabia	27500
11.976	V	Sharjah TV3	27500
11.976	V	Wanasah	27500
11.996	H	ShowComedy	27500
11.996	H	ShowMovies 1	27500
11.996	H	ShowMovies 2	27500
11.996	H	ShowMovies Act	27500
11.996	H	ShowMovies Com	27500
11.996	H	ShowMovies Kids	27500
11.996	H	ShowSeries	27500
11.996	H	ShowSeries Extra	27500
11.996	H	Showsports 1	27500
11.996	H	Showsports 2	27500
11.996	H	Showsports 3	27500
11.996	H	Showsports 4	27500
12.015	V	2M Maroc	27500
12.015	V	A1 Shop	27500
12.015	V	Al Jazeera Internati	27500
12.015	V	Alafasy	27500
● 12.015	V	Alhayat 2	27500
12.015	V	CCTV9	27500
12.015	V	El-Emarah	27500
12.015	V	Medi1 Sat	27500
12.015	V	Melody Arabia	27500
12.015	V	Shababiyah	27500
12.015	V	Smile TV	27500
12.015	V	Space power	27500
12.015	V	Strike	27500
12.015	V	Medi1	27500
12.034	H	Aflam 1	27500
12.034	H	Aflam 2	27500
● 12.034	H	ART AlZaeem	27500
12.034	H	BNTV	27500
12.034	H	Cinema	27500
12.034	H	Hekayat	27500
12.034	H	Hekayat Kaman	27500
12.034	H	Hekayat Zaman	27500
12.034	H	Tarab	27500
● 12.034	H	VIP 1	27500
12.034	H	ARTMW	27500
12.034	H	Iqraa	27500
12.034	H	Jordan	27500
12.034	H	JSC	27500
12.034	H	Melody Aflam	27500
12.034	H	ARZKR	27500
12.053	V	AD Sport TV	27500
12.053	V	Al Bait	27500
12.053	V	AL Zahabiya	27500
12.053	V	Al-Alam	27500
12.053	V	Al-Majd3	27500
12.053	V	ALKASS TV	27500
12.053	V	Anwar	27500
12.053	V	Bedaya	27500
12.053	V	GHINWA	27500
12.053	V	Hannibal	27500
12.053	V	Hi TV	27500
12.053	V	Mara7 TV	27500
● 12.053	V	Mersal TV	27500
12.053	V	OTV	27500
12.053	V	Rotana Zaman	27500
12.053	V	Selevision Data Comm	27500
12.053	V	DAL	27500
12.073	H	BBC Food	27500
12.073	H	Boomerang	27500
12.073	H	Cartoon Network	27500
● 12.073	H	CNBC	27500
12.073	H	Discovery World	27500
12.073	H	Hallmark	27500
12.073	H	MTV Music	27500
12.073	H	Show Kids	27500
12.073	H	T433	27500
12.073	H	TCM	27500
12.073	H	Travel Channel	27500
12.073	H	Vh1	27500
12.073	H	CNN	27500
12.130	V	AL JADEED	27500
12.130	V	Heya	27500
12.130	V	LBC SAT	27500
12.130	V	MANAR	27500
12.130	V	Mega TV	27500
12.130	V	NBN	27500
12.130	V	Rotana	27500
12.130	V	Rotana Clip	27500
12.130	V	Rotana Khalijiah	27500
12.130	V	Rotana Tarab	27500
12.130	V	Sumaria	27500
12.130	V	Leb Radio 3	27500
12.130	V	Leb Radio4	27500
12.130	V	Leb Radio6	27500
12.130	V	NOUR	27500
12.130	V	RFI	27500
12.130	V	Sumer FM	27500
12.149	H	Al-EKhbaria	27500
12.149	H	Saudi Sport	27500
12.149	H	Saudi TV	27500
12.149	H	Saudi-1	27500
12.149	H	Saudi-2	27500
12.149	H	European	27500
12.149	H	Holy Quran	27500
12.149	H	Radio-5	27500
12.149	H	Saudi Radio-1	27500
12.149	H	Saudi Radio-2	27500
12.206	V	Al Danah	27500
12.206	V	Al-Zaeem	27500
12.206	V	ALhayat	27500
12.206	V	ALSahraa	27500
12.206	V	Arriadia	27500
12.206	V	Assadissa	27500
12.206	V	BBC Arabic	27500
12.206	V	France 24	27500
12.206	V	LAYALI	27500
12.206	V	Nessma TV	27500
12.206	V	Qatar1	27500
12.206	V	TV A3	27500
12.206	V	Chaine 1	27500
12.206	V	Chaine 3	27500
12.206	V	Radio International	27500
12.226	H	AGHANI TV	27500
12.226	H	Ajman TV	27500
12.226	H	AL DEERA TV	27500
12.226	H	ARABIAN TRAVEL TV	27500
12.226	H	Awtar TV	27500
12.226	H	BOROUZ TV	27500
12.226	H	FAWASEL TV	27500
12.226	H	GEAR ONE	27500
12.226	H	Infinity TV	27500
12.226	H	Libra TV	27500
12.226	H	NOJOOM 2	27500
12.226	H	NOJOOM 4	27500
● 12.226	H	NOOR DUBAI	27500
12.226	H	Sharjah TV 2	27500
12.226	H	AJMAN CH 4 FM	27500
12.284	V	JSC Sports +1	27500
12.284	V	JSC Sports +2	27500
12.284	V	JSC Sports +3	27500
● 12.284	V	JSC Sports +4	27500
12.284	V	JSC Sports 1	27500
12.284	V	JSC Sports 2	27500
12.302	H	Kairali	27500

TV Digital
Radio Digital
TV Digital Crypt
Radio Digital Crypt
TV High Definition
TV High Definition Crypt

SatcoDX Global Satellite Chart 02/2009

Freq GHz	Pol	Channel Name	Symbol rate
12.302	H	NEOSP	27500
●12.302	H	Prime Sport Arabia	27500
12.302	H	Shara1	27500
●12.302	H	TBO	27500
12.302	H	A1TV	27500
12.302	H	Al Diyar	27500
12.302	H	ALHAKEKA	27500
12.302	H	Dawn News	27500
12.302	H	FM	27500
12.302	H	FutureTV	27500
12.302	H	ISHTAR TV	27500
12.302	H	LBC EU	27500
12.302	H	Nourmina	27500
12.302	H	Seven Stars	27500
12.302	H	AYYAM FM	27500
12.302	H	Rotana Radio Jordan	27500
12.302	H	SPIN JORDAN	27500
●10.775	H	AL Dawliya	27500
10.775	H	Al Qethara	27500
10.775	H	Al Waseet	27500
10.775	H	ALGHADEER	27500
10.775	H	ALSeha Waljamal	27500
10.775	H	ALWASL	27500
●10.775	H	Cairo Cinema	27500
10.775	H	Dewan Al Arab	27500
10.775	H	Hannibal AlFardos	27500
●10.775	H	Iraqi EDU	27500
10.775	H	Nickelodeon TV	27500
10.775	H	Panorama Drama 2	27500
10.775	H	Test-13	27500
10.775	H	Test-14	27500

Europe
ATLANTIC BIRD 3
355.0 East (5.0 West)

EUTAB3SB

Freq GHz	Pol	Channel Name	Symbol rate
10.975	V	OIV Feed 3 (OIV Fe	2894
10.975	V	OIV Feed 3 (Radio	2894
11.064	H	BOUCHAOUI_TDA3	16270
11.064	H	PROGRAMME NATIONA	16270
11.064	H	A3	16270
11.064	H	CANAL ALGERIE	16270
11.064	H	CHAINE 1	16270
11.064	H	CHAINE 2	16270
11.064	H	CHAINE 3	16270
11.064	H	RADIO INTERNATION	16270
11.064	H	Radio20	16270
11.064	H	SAHEL	16270
11.070	V	ELPITEL MCR	3214
11.455	V	TMC	6666
11.512	V	BFM	29950
11.512	V	CINE FIRST	29950
11.512	V	CINE FX	29950
11.512	V	CINE POLAR	29950
11.512	V	Direct 8	29950
11.512	V	France 4	29950
11.512	V	France O	29950
11.512	V	GULLI	29950
11.512	V	NRJ12	29950
11.512	V	O. sport info	29950
11.512	V	TMC	29950
11.512	V	VIDEOCLICK	29950
11.512	V	Virgin 17	29950
11.512	V	DORCEL TV	29950
11.512	V	KTO	29950
11.512	V	TV8 Mont Blanc	29950
11.554	V	ARTE HD	29950
11.554	V	AB 1	29950
11.554	V	AB MOTEURS	29950
11.554	V	ACTION	29950
11.554	V	CHASSE ET PECHE	29950
11.554	V	ESCALES	29950
11.554	V	MANGAS	29950
11.554	V	NT1	29950
11.554	V	RTL9	29950
11.554	V	TF1	29950
11.554	V	Toute l'Histoire	29950
11.554	V	TV5MONDE FBS	29950
11.554	V	XXL	29950
11.554	V	BIS TV	29950
●11.554	V	RCF	29950
●11.554	V	RCF01_PAYS_DE_L_A	29950
●11.554	V	RCF05 HAUTE-ALPES	29950
●11.554	V	RCF07_VIVARAIS	29950
●11.554	V	RCF11_PAYS_D_AUDE	29950
●11.554	V	RCF18_BERRY	29950
●11.554	V	RCF19_CORREZE	29950
●11.554	V	RCF21 PARABOLE DI	29950
●11.554	V	RCF26	29950
●11.554	V	RCF33 BORDEAUX	29950
●11.554	V	RCF37 SAINT-MARTI	29950
●11.554	V	RCF41	29950
●11.554	V	RCF43_LE_PUY_EN_V	29950
●11.554	V	RCF51 REIMS ARDEN	29950
●11.554	V	RCF54 JERICO NANC	29950
●11.554	V	RCF69_LYON_FOURVI	29950
●11.554	V	RCF73_SAVOIE	29950
●11.554	V	RCF74 HAUTE-SAVOI	29950
●11.554	V	RCF76 HAUTE-NORMA	29950
●11.554	V	RCF84_LUMIERES	29950
11.590	V	ARTE	20000
11.590	V	France 2	20000
11.590	V	France 3	20000
11.590	V	France 5	20000
11.590	V	LCP	20000
11.609	V	France3 Grenoble	6944
11.609	V	ViaStella	6944
11.675	V	Disney Channel - Pre	27000
11.675	V	Disney Channel+1 - P	27000
11.675	V	Joi - Premium Galler	27000
11.675	V	Joi+1 - Premium Gall	27000
11.675	V	Mya - Premium Galler	27000
11.675	V	Mya+1 - Premium Gall	27000
11.675	V	Servizio 14	27000
11.675	V	Servizio 16	27000
11.675	V	Servizio 17	27000
11.675	V	Servizio 18	27000
11.675	V	Steel - Premium Gall	27000
11.675	V	Steel+1 - Premium Ga	27000
11.675	V	Servizio 13	27000
11.675	V	Servizio 20	27000
11.675	V	Servizio M_e	27000
12.543	H	Fox Life	27500
12.543	H	MCM BELGIQUE	27500
12.543	H	GCPE1	27500
12.543	H	GCPE2	27500
12.543	H	Lloyds Live	27500
12.543	H	Spar Live	27500
12.543	H	CAPYTOL	27500
12.543	H	FIP Region	27500
12.543	H	France Bleu Frequenz	27500
12.543	H	France Bleu IdF	27500
12.543	H	France Bleu Modulati	27500
12.543	H	Prod.31 (BUT)	27500
12.543	H	Prod.31 (GIFI)	27500
12.543	H	Prod.31 CONFO	27500
12.543	H	Radio Soleil	27500
12.543	H	RF contribution	27500
12.640	H	PINK SUI	2315

EUTAB3WB

Freq GHz	Pol	Channel Name	Symbol rate
●12.614	H	SEX ON TV CRYSTAL	8790
12.614	H	SEX ON TV DIAMOND	8790
12.614	H	SEX ON TV GOLD	8790
●12.614	H	SEX ON TV SYLVER	8790
●12.614	H	SEX ON TV CLASSIC	8790
12.614	H	TAPESH TV2	8790
12.711	H	PINK SUI	40000
●11.471	V	M6	29950
●11.471	V	Orange cine choc	29950
●11.471	V	Orange cine geants	29950
●11.471	V	Orange cine happy	29950
●11.471	V	Orange cine max	29950
●11.471	V	Orange cine novo	29950
●11.471	V	Orange cinema series	29950
●11.471	V	Orange Foot	29950
●11.471	V	W9	29950
●12.615	H	SEX ON TV CRYSTAL	8789
12.615	H	SEX ON TV DIAMOND	8789
12.615	H	SEX ON TV GOLD	8789
●12.615	H	SEX ON TV SYLVER	8789
●12.615	H	SEX ON TV CLASSIC	8789
12.615	H	TAPESH TV2	8789

Africa, Europe, Middle America
C-Band: ATLANTIC BIRD 3
355.1 East (4.9 West)

EUTAB3TA

Freq GHz	Pol	Channel Name	Symbol rate
● 3.646	R	Tele Sahel (Match)	2170
3.656	R	KTN NGONG ENC B	2892
3.711	L	CRTV	2785
3.727	R	CFIAFRPRO1	29950
3.727	R	CFIAFRPRO2	29950
3.727	R	CFIAMEPRO	29950
3.727	R	RFI Newzik	29950
3.727	R	DOM 1	29950
3.727	R	DOM 2	29950
3.727	R	DOM 3	29950
3.727	R	DOM 4	29950
3.727	R	DOM 5	29950
3.727	R	DOM 6	29950
3.727	R	DOM 7	29950
3.727	R	DOM 8	29950
● 3.727	R	DW-TV- AFRICA	29950
3.727	R	RFI Francais	29950
3.727	R	RFI Test	29950
3.727	R	CFI Audio 1	29950
3.727	R	CFI Audio 2	29950
3.727	R	CFI Audio 3	29950
3.727	R	DW 01	29950
3.727	R	DW 02	29950
3.727	R	DW 04	29950
3.727	R	DW 05	29950
3.727	R	DW 06	29950
3.727	R	DW 08	29950
3.727	R	DW 09	29950
3.727	R	RCI 3	29950
3.727	R	RFI AF Centrale	29950
3.727	R	RFI Bissau	29950
3.727	R	RFI Cameroun	29950
3.727	R	RFI Cap Vert	29950
3.727	R	RFI Divers 1	29950
3.727	R	RFI Divers 2	29950
3.727	R	RFI Divers 3	29950
3.727	R	RFI Gambie	29950
3.727	R	RFI Ghana	29950
● 3.727	R	RFI Haussa	29950
3.727	R	RFI Kenya	29950
3.727	R	RFI Langues 1	29950
3.727	R	RFI Langues 2	29950
3.727	R	RFI Lesotho	29950
3.727	R	RFI Liberia	29950
3.727	R	RFI Madagascar	29950
3.727	R	RFI Malabo Pico	29950
3.727	R	RFI Malabo Ville	29950
3.727	R	RFI Mozambique	29950
3.727	R	RFI Musique	29950
3.727	R	RFI Namibie	29950
3.727	R	RFI Niamey	29950
3.727	R	RFI Niger	29950
3.727	R	RFI Nord Cameroun	29950
3.727	R	RFI Ocean Indien	29950
3.727	R	RFI Ouganda	29950
3.727	R	RFI Rmc	29950
3.727	R	RFI Rwanda	29950
3.727	R	RFI Sao Tome	29950
3.727	R	RFI Senegal	29950
3.727	R	RFI Sierra Leone	29950
3.727	R	RFI Tanzanie	29950
3.727	R	RFI Tchad	29950
3.727	R	RFI WS Ouest	29950
3.727	R	RFI WS Sud	29950
3.727	R	RFI Zambie	29950
● 3.727	R	RTBF	29950
4.157	L	RTN GABON	8010
4.157	L	TV1 GABON	8010
4.157	L	TV2 GABON	8010
4.157	L	RADIO AFRICA+	8010
4.157	L	RADIO AFRICA1	8010
4.157	L	RADIO GABON	8010
4.159	R	AL BADEEL	20330
4.159	R	AL HEDAYA	20330
4.159	R	AL-MONOWA	20330
4.159	R	ALNADI	20330
4.159	R	ATTAWASUL	20330
4.159	R	Jamahiriya Sat Chann	20330
4.159	R	Libya Sport (Riadi	20330
4.159	R	LY LJB	20330

Europe
AMOS 2,3
356.0 East (4.0 West)

Freq GHz	Pol	Channel Name	Symbol rate
10.842	H	Animal Planet	27500
10.842	H	Antena 1	27500
10.842	H	AXN Sci-Fi	27500
10.842	H	Boomerang	27500
10.842	H	Discovery	27500
10.842	H	Eurosport 2	27500
10.842	H	MTV Dance	27500
10.842	H	MTV Hits	27500
10.842	H	National TV	27500
10.842	H	Prima TV	27500
10.842	H	Realitatea TV	27500
10.842	H	Science	27500
10.842	H	Travel & Liv.	27500
10.842	H	U TV	27500
10.842	H	VH 1	27500
10.842	H	World	27500
10.842	H	Boom Music	27500
10.842	H	Radio Guerrilla	27500
10.842	H	Sport Total	27500
●10.925	H	XXX Xtreme	27500
10.925	H	Boom Action	27500
●10.925	H	Boom Cinema	27500
10.925	H	Boom Comedy	27500
10.925	H	Boom Drama	27500
10.925	H	Boom Hop!	27500
10.925	H	Boom Indian	27500
●10.925	H	Boom Sport One	27500
●10.925	H	Boom Sport Two	27500
10.925	H	Extreme Sports	27500
10.925	H	Favorit TV	27500
10.925	H	Kanal D	27500
10.925	H	Nat. Geographic	27500
●10.925	H	Playboy	27500
10.925	H	Smarty	27500
10.925	H	Sport Klub Ro	27500
10.925	H	Sport.Ro	27500
10.925	H	TVR Cultural	27500
10.925	H	Viasat History	27500
11.122	H	TV Amna RA x	1852
11.260	H	4, a storyteve	27500
11.260	H	anime+ Hungary	27500
11.260	H	anime+ Romania	27500
11.260	H	Filmmuzeum	27500
11.260	H	hirTV	27500
11.260	H	Minimax Hun/A+	27500
11.260	H	Minimax Rom/A+	27500
11.260	H	Pax TV	27500
11.260	H	Ch#2	27500
11.260	H	Minimax Hungary	27500
11.260	H	Minimax Romania	27500
11.260	H	Minimax Serbia	27500
11.260	H	Telemedia 2	27500
11.260	H	Telemedia 3	27500
11.260	H	Telemedia 6	27500
11.260	H	Gong Radio	27500
11.260	H	Juventus Radio	27500
11.260	H	jazzradio.hu	27500
11.303	H	ATV	19540
11.303	H	Comedy Central	19540
11.303	H	SK PL	19540
11.303	H	SK PL +	19540
11.303	H	Sportklub	19540
11.303	H	Vitál TV	19540
11.303	H	Radio1	19540
11.303	H	Katolikus Radio	19540
11.324	H	NET TV	3350
11.333	H	HTV-RT	3500
11.347	H	TMT	2800
●11.351	H	CROATEL DSNG	3350
11.359	H	NOVA TV	3350
11.423	H	5KANALAS	2892
11.427	H	NTV HAYAT BIH	5926
11.427	H	NTV HAYAT SAT	5926
11.427	H	Radio Stari Grad	5926
11.435	H	TV Oltenia	2089
11.443	H	TVRM	4165
11.443	H	RRM	4165
11.560	H	BBC World	13400
11.560	H	CNN	13400
11.560	H	Duna TV	13400
11.560	H	Money Channel	13400
11.560	H	MTV ro	13400
11.560	H	Music Max Adult	13400
11.560	H	MusicMax	13400
11.560	H	OTV	13400
11.560	H	ProTV Intl	13400
11.560	H	Taraf TV	13400
●11.575	H	FRENCH LOVER TV	8887
11.575	H	CNL Sibria	8887
11.575	H	CNL Ukraine	8887
11.575	H	LIFE TV Estonia	8887
●11.575	H	TBN Russia	8887
11.586	H	Carli TV	7958
11.586	H	Golica	7958
11.586	H	MTV Adria	7958
11.591	V	ARTE	20000
11.591	V	France 2	20000
11.591	V	France 3	20000
11.591	V	France 5	20000
11.591	V	LCP	20000

AMO002EU

Freq GHz	Pol	Channel Name	Symbol rate
●10.722	H	{Empty Name}	27500
10.759	H	ICTV	30000
10.759	H	KIEV STB	30000
10.759	H	M1	30000
10.759	H	M2	30000
10.759	H	MTV UKRAINE	30000
10.759	H	NEWS 24	30000
10.759	H	QTV	30000
10.759	H	TONIS	30000
10.759	H	Radio Antoshka	30000
10.806	H	Cinemax 2 Bulgaria	27500
10.806	H	Cinemax 2 Czech	27500
10.806	H	Cinemax 2 Hungary	27500
10.806	H	Cinemax 2 Internatio	27500
10.806	H	Cinemax 2 Poland	27500
10.806	H	Cinemax 2 Romania	27500
10.806	H	Cinemax Bulgaria	27500
10.806	H	Cinemax Czech	27500
10.806	H	Cinemax Hungary	27500
●10.806	H	Cinemax Internationa	27500
10.806	H	Cinemax Poland	27500
10.806	H	Cinemax Romania	27500
10.806	H	Comedy Adria Bulgari	27500
10.806	H	Comedy Adria Croatia	27500
10.806	H	Comedy Adria Interna	27500
10.806	H	Comedy Adria Serbia	27500
10.806	H	Comedy Adria Sloveni	27500
10.806	H	HBO Adria Bulgaria	27500
10.806	H	HBO Adria Croatia	27500
10.806	H	HBO Adria for DTH	27500
10.806	H	HBO Adria Serbia	27500
10.806	H	HBO Adria Slovenia	27500
10.806	H	HBO Adria Test	27500
10.806	H	HBO Comedy Czech	27500
10.806	H	HBO Comedy Hungary	27500
10.806	H	HBO Comedy Internati	27500
10.806	H	HBO Comedy Romania	27500
10.806	H	HBO Czech	27500
10.806	H	HBO Czech (AC3)	27500
10.806	H	HBO Czech Original	27500
10.806	H	HBO Hungary	27500
10.806	H	HBO Hungary (AC3)	27500
10.806	H	HBO Hungary Origin	27500
10.806	H	HBO Romania	27500
10.806	H	HBO Romania (AC3)	27500
10.806	H	HBO2 Czech	27500
10.806	H	HBO2 for DTH	27500
10.806	H	HBO2 Hungary	27500
10.806	H	HBO2 OrigHu	27500
10.806	H	Spektrum	27500
10.806	H	OS Download	27500
10.890	H	Acasa TV	27500
10.890	H	Antena 3	27500
10.890	H	AXN	27500
10.890	H	AXN Crime	27500
10.890	H	Cartoon Network	27500
10.890	H	Cinemax	27500
10.890	H	Euphoria	27500
10.890	H	Eurosport	27500
10.890	H	HBO Romania	27500
10.890	H	Jetix	27500
10.890	H	Pro Cinema	27500
10.890	H	PRO TV	27500
10.890	H	TCM	27500
10.890	H	TV 1000	27500
10.890	H	TVR 1	27500
10.890	H	TVR 2	27500
10.890	H	Viasat Explorer	27500
11.412	H	HBO Comedy Poland	7926
11.412	H	HBO Pol Orig	7926
11.412	H	HBO Poland	7926
11.412	H	HBO Poland (AC3)	7926
11.412	H	HBO Poland for STB	7926
11.412	H	HBO2 Poland	7926
11.412	H	HBO2 Poland for ST	7926
11.412	H	HBO2 Poland Origin	7926
11.412	H	Subtitling test	7926
●11.412	H	OS Download 2	7926
11.650	H	Telesport	21350
11.650	H	B1	21350
●11.650	H	Canal 1	21350
11.650	H	Ginx TV	21350
11.650	H	Good Life Channel	21350
11.650	H	Trinitas TV	21350
11.650	H	TV Neptun	21350
11.650	H	Radio Logos	21350
11.650	H	Radio Reintregirea	21350
●11.650	H	Radio Trinitas	21350
●11.690	H	Gumor TV	7200
11.690	H	MUSIC BOX	7200
11.690	H	REAL ESTATE TV	7200
●10.723	V	RTL Klub	30000
●10.723	V	tv2	30000
●10.759	V	Eurosport HD	30000
●10.759	V	HBO HD	30000
●10.759	V	History HD	30000
●10.759	V	NatGeo HD	30000
●10.759	V	mr1-Kossuth	30000
●10.759	V	mr2-Petőfi	30000
●10.759	V	mr3-Bartók	30000
11.177	H	TVRM	4165
11.177	H	RRM	4165
11.179	H	TVRM	6666
11.179	H	TVRM Cultural	6666
11.179	H	RRM	6666
11.319	H	NATIONAL GEOGRAPH	2750
11.338	H	5csatorna	2600
●11.557	H	BBC World	13400
●11.557	H	CNN	13400
●11.557	H	Duna TV	13400
●11.557	H	Money Channel	13400
●11.557	H	MTV ro	13400
●11.557	H	Music Max Adult	13400
●11.557	H	MusicMax	13400
●11.557	H	OTV	13400
●11.557	H	ProTV Intl	13400
●11.557	H	Taraf TV	13400
●12.543	H	Fox Life	27500
●12.543	H	MCM BELGIQUE	27500
●12.543	H	GCPE1	27500
●12.543	H	Lloyds Live	27500
●12.543	H	Spar Live	27500
●12.543	H	CAPYTOL	27500
●12.543	H	FIP Region	27500
●12.543	H	France Bleu Frequenz	27500
●12.543	H	France Bleu IdF	27500
●12.543	H	France Bleu Modulati	27500
●12.543	H	Prod.31 (BUT)	27500
●12.543	H	Prod.31 (GIFI)	27500
●12.543	H	Prod.31 CONFO	27500
●12.543	H	Radio Soleil	27500
●12.543	H	RF contribution	27500

Middle East
AMOS 1,2
356.1 East (3.9 West)

Freq GHz	Pol	Channel Name	Symbol rate
10.972	V	BBC Prime	27500
10.972	V	CNN	27500
10.972	V	DVDbox	27500
10.972	V	Star World	27500
10.972	V	Test Channel	27500
10.972	V	Viva Platina	27500
10.972	V	Yes Docu	27500
10.972	V	90 FM	27500
10.972	V	Arabic IBA	27500
10.972	V	Radio 102FM	27500
10.972	V	Radio 103FM	27500
10.972	V	RADIO 88 FM	27500
10.972	V	Radio 99esc	27500
10.972	V	Radio darom	27500
10.972	V	Radio Galaz	27500
10.972	V	Radio Galgalaz	27500
10.972	V	Radio Jerusalem	27500
10.972	V	Radio K. Hamukika	27500
10.972	V	Radio Kol Hai	27500
10.972	V	Radio Kol Haiam Hado	27500
10.972	V	RADIO LEV HAMEDIN	27500
10.972	V	Radio Melodia	27500
10.972	V	Radio Reka	27500
10.972	V	Radio Reshet Alef	27500
10.972	V	Radio Reshet Bet	27500
10.972	V	Radio Reshet Gimel	27500
10.972	V	Radio rishon	27500
10.972	V	Radio Select	27500
10.972	V	Radios 100 FM	27500
10.972	V	Rodio Monitor	27500
10.986	H	FETV	6666
10.986	H	METV	6666
10.986	H	RADIO 3	6666
10.986	H	RADIO 4	6666
10.986	H	RADIO 5	6666
10.986	H	RADIO 6	6666
10.986	H	RADIO 7	6666
10.986	H	Radio Love	6666
10.986	H	The Word	6666
10.993	H	Baki TV	4850
10.993	H	RR Sat Promo	4850
11.008	V	Mystic Channel	27500
11.008	V	Our Song	27500
11.008	V	Sport One	27500
11.008	V	Tech TV	27500
11.008	V	Testcard	27500
11.008	V	The Adult Channel	27500
11.008	V	ToV-TV	27500
11.008	V	TV5	27500
11.008	V	Yes Casino	27500
11.008	V	Yes Play	27500
11.008	V	Yes Pulse	27500
11.008	V	Yes Weather	27500
11.008	V	GAME ONE	27500
11.008	V	Logic games	27500
11.132	V	KURDSAT	3254
11.177	V	IBA 10	8520
11.177	V	IBA 2	8520
11.474	V	DVDBox	27500
11.474	V	English League	27500
11.474	V	Hatchelet	27500
11.474	V	ISR WGames	27500
11.474	V	Music Box Rusia	27500
11.474	V	SAT 1	27500
11.474	V	Yes Promo	27500
11.474	V	Xtreme play	27500
11.510	V	Biography	27500
11.510	V	DVDbox	27500
11.510	V	Good Life TV Network	27500
11.510	V	History Channel	27500
11.510	V	Israel Plus	27500
11.510	V	Sports 5+	27500
11.510	V	TV Mall	27500
11.510	V	Yes news	27500
11.510	V	Yes Y	27500
11.510	V	Yesababa	27500
11.558	V	Adventure One	27500
11.558	V	Animal Planet	27500
11.558	V	Channel 3	27500
11.558	V	Daystar	27500
11.558	V	E!	27500
11.558	V	English League	27500
11.558	V	Kids Channel	27500
11.558	V	M2	27500
11.558	V	MCM TOP	27500
11.558	V	Nickelodeon	27500
11.558	V	Sat 3	27500
11.558	V	Shopping	27500
11.558	V	TCM	27500
11.558	V	Yes Sport	27500
11.558	V	Yes Weekend	27500
11.558	V	Yes+	27500
11.592	V	Channel 3	27500
11.592	V	Disc-Science	27500
11.592	V	DVDbox	27500
11.592	V	EGO	27500
11.592	V	Eurosport	27500
11.592	V	Extreme Sport Channe	27500
11.592	V	Fox News	27500
11.592	V	Israeli Game	27500
11.592	V	Music 24	27500
11.592	V	N. Geographic	27500
11.592	V	The Discovery Channe	27500
11.592	V	VH1 Classic	27500
11.592	V	Yes 2	27500
11.592	V	Zee TV	27500
11.677	V	DVDbox	27500
11.677	V	Education Channel 33	27500
11.677	V	ESPN	27500
11.677	V	MTV Base	27500
11.677	V	Open Channel	27500
11.677	V	Music Monitor	27500
11.677	V	Music Select	27500

AMO002ME

Freq GHz	Pol	Channel Name	Symbol rate
10.720	V	BBC World	27500
10.720	V	Cartoon Network	27500
10.720	V	DVDbox	27500
10.720	V	Eurosport News	27500
10.720	V	Interstar	27500
10.720	V	MBC	27500
10.720	V	METV	27500
10.720	V	Planeta sport	27500
10.720	V	Private Blue	27500
10.720	V	Pro TV	27500
10.720	V	RTM	27500
10.720	V	TVE	27500
10.720	V	Yes Anime	27500
10.758	V	ARTE	27500
10.758	V	CCTV 9	27500
10.758	V	Channel 33	27500
10.758	V	DVDbox	27500
10.758	V	Game One	27500
10.758	V	LBC	27500
10.758	V	Nashe Kino	27500
10.758	V	RTL	27500
10.758	V	RTR	27500
10.758	V	RTV International	27500
10.758	V	TVR International	27500
10.758	V	Yes Teleclub	27500
10.803	V	BBC Prime	27500
10.803	V	Channel 1	27500
10.803	V	Channel 2	27500
10.803	V	emtv test	27500
10.803	V	Fox News	27500
10.803	V	iAD	27500
10.803	V	Israel 10	27500
10.803	V	Israel Plus	27500
10.803	V	Israeli Cinema	27500
10.803	V	ITV	27500
10.803	V	KIDS CHANNEL	27500
10.803	V	Nickeloden	27500
10.803	V	Playboy	27500
10.803	V	Testcard	27500
10.803	V	VIVA PLATINA	27500
10.803	V	Yes +	27500
10.803	V	Yes Docu	27500
10.803	V	Yes Stars	27500
10.841	V	Baby	27500
10.841	V	Good life TV Network	27500
10.841	V	Hallmark Israel	27500
10.841	V	HOP!	27500
10.841	V	Jetix	27500
10.841	V	MGM	27500
10.841	V	Open Channel	27500
10.841	V	Russian Music Box	27500
10.841	V	Shabat Soccer	27500
10.841	V	Sky NEws	27500
10.841	V	Sport 5	27500
10.841	V	Viva Platina	27500
10.841	V	Yes 1	27500
10.841	V	Yes 2	27500
10.841	V	Yes 3	27500
10.841	V	Yes 4	27500
10.889	V	Abu-Dhabi	27500
10.889	V	Baby plus	27500
10.889	V	Bloomberg	27500
10.889	V	DVDbox	27500
10.889	V	Fox Sport	27500
10.889	V	France 2	27500
10.889	V	Knesset	27500
10.889	V	MTV	27500
10.889	V	Reality TV	27500
10.889	V	Romantica	27500
10.889	V	The Egyptian Channel	27500
10.889	V	Yes India	27500
10.924	V	Aljazeera	27500
10.924	V	Canale 5	27500
10.924	V	DVDbox	27500
10.924	V	GTV	27500
10.924	V	Jordan channel	27500
10.924	V	Karaoke Channel	27500
10.924	V	Mezzo	27500
10.924	V	NTV MIR	27500
10.924	V	Rotana	27500
10.924	V	Test RR sat	27500
10.924	V	The Adult channel	27500
10.924	V	TV5	27500
10.924	V	VH1	27500
11.432	V	FilmBOX	4500
11.432	V	Nonstop Kino	4500

North Europe
INTELSAT 10-2, THOR 3,5
359.0 East (1.0 West)

INT10023

Freq GHz	Pol	Channel Name	Symbol rate
12.520	V	DR1 Syd	17500
12.520	V	DR2 Syd	17500
12.520	V	NRK1 Reserve	17500
12.520	V	TV Finland	17500
12.520	V	DR Klassisk Syd	17500
12.520	V	DR P1 Syd	17500
12.520	V	DR P2 Syd	17500
12.520	V	DR P3 Syd	17500
12.520	V	DR P4 KBH Syd	17500
12.520	V	NRK AN Reserve	17500
12.520	V	NRK P1 Reserve	17500
12.520	V	Scandinavian Satelit	17500
12.520	V	Ylesat 1	17500
12.520	V	Ylesat 2	17500
12.527	H	Antena 3	27500
12.527	H	ATV	27500
12.527	H	Cartoon Network	27500
12.527	H	Duna TV	27500
12.527	H	Euforia TV	27500
12.527	H	Favorit TV	27500
12.527	H	Hallmark CE	27500
12.527	H	Romantica Ro	27500
12.527	H	Sport Klub HU	27500
12.527	H	Sport Klub RO	27500
12.527	H	Sport ro	27500
●12.527	H	Test 1	27500
12.527	H	TVR2	27500
12.527	H	Guerrilla	27500
12.527	H	InfoPRO	27500
12.527	H	Europa FM	27500
12.527	H	RadioVIBE	27500
12.563	H	4 Story Tv	27500
12.563	V	B92	27500
12.563	V	DoQ	27500
●12.563	V	Fashion	27500
12.563	H	HBO 2	27500
12.563	H	HBO Adria	27500
12.563	H	HBO Comedy Adria	27500
12.563	H	HBO Hungaria	27500
12.563	H	Jetix CE	27500
●12.563	V	Kapital Network	27500
12.563	H	M1	27500
12.563	H	M2	27500
12.563	H	Minimax	27500
12.563	V	MTV Europe	27500
12.563	H	MTV Hungary	27500
●12.563	V	Net TV	27500
12.563	H	Romantica Hu	27500
●12.563	V	Service 10-1	27500
12.563	H	Spektrum	27500
12.563	H	Sport 1	27500
12.563	V	Sport 2	27500
12.563	V	Sport Klub +	27500
12.563	V	Sport Klub Croatia	27500
12.563	H	TVR Cultural	27500
●12.563	V	TVR3	27500
12.563	H	Viva Tv	27500
12.563	H	Juventus Radio	27500
12.563	V	Radio Roadstar	27500
12.563	H	Roxy Radio	27500
12.607	V	Analog Tv	27500
12.607	H	Antena 2	27500
12.607	V	CMC	27500
12.607	H	DigiFilm 1	27500
12.607	H	DigiFilm 2	27500
12.607	H	Discovery RO	27500
12.607	V	DM SAT	27500
12.607	H	Echo Tv	27500
12.607	H	Eurosport2	27500
12.607	V	Galaksija	27500
●12.607	H	GSP1	27500
12.607	H	Kanal D	27500
12.607	V	MTV Adria	27500
12.607	H	Nat Geo CE	27500
12.607	V	NOVA TV	27500
12.607	V	OBN	27500
12.607	V	Otvorena TV	27500
12.607	H	Paprika	27500
12.607	H	Pro Cinema	27500
12.607	V	RTL Televizija	27500
12.607	V	RTS 1	27500
12.607	V	RTS 2	27500
●12.607	V	Service 9-1	27500
12.607	H	Taraf TV	27500
12.607	H	Travel	27500
12.607	V	Z 1	27500
●12.607	V	A 2	27500
12.607	H	DigiTV Info	27500
12.643	H	Acasa	27500
12.643	V	Animal Planet CE	27500
12.643	H	AXN	27500
12.643	V	Cool TV	27500
12.643	V	Discovery Ch	27500
12.643	H	Film +	27500
12.643	V	Film + CE	27500
12.643	V	HBO CE	27500
12.643	H	Hir TV	27500
12.643	V	Joj	27500
12.643	V	Markiza	27500
12.643	V	Music Box	27500
12.643	H	National Geo	27500
●12.643	V	NOVA Sport	27500
12.643	V	Ocko	27500
12.643	H	ProTV	27500
12.643	V	Reality CE	27500
12.643	H	RTL Klub	27500
12.643	V	TA 3	27500
12.643	H	TV 2	27500
12.643	H	Viasat 3	27500
12.643	H	Viasat Explorer	27500
12.643	H	DDTV	27500
12.643	V	Pratech	27500
12.643	H	U	27500
12.643	V	National FM	27500
12.643	H	Radio S	27500
12.643	H	Sztar FM	27500
12.643	H	Radio 21	27500
12.687	H	B1	27500
12.687	V	CT1	27500
12.687	V	CT2	27500
12.687	V	CT4_SPORT	27500
12.687	H	Etno	27500
12.687	H	EuroSport	27500
12.687	H	Jetix	27500
●12.687	V	JOJ Plus	27500
12.687	H	Minimax RO A+	27500
12.687	H	N 24	27500
12.687	H	National TV	27500
12.687	V	NOVA CZ	27500
12.687	H	Prima TV	27500
12.687	V	PRIMA_CZ	27500
12.687	V	Pro Tv International	27500
12.687	H	Realitatea TV	27500
12.687	V	Romantica CE	27500
12.687	V	Sport1 SK-CZ	27500
12.687	V	STV 1	27500
12.687	V	STV 2	27500
12.687	V	STV 3	27500
●12.687	H	Test 2	27500
12.687	V	Test Channel	27500
12.687	H	TVR1	27500
12.687	V	CT24	27500
12.687	H	Kiss TV	27500
12.687	H	OTV	27500
●12.687	H	Maria Radio	27500
12.717	V	CNN	18400
12.717	V	Eurosport 2 CE	18400
12.717	V	Music Max	18400
12.717	V	Nova Cinema	18400
12.717	V	Sport1 RO	18400
12.717	V	TV Neptun	18400
●12.717	V	RadioTvSeverin	18400
●12.717	V	Service 11-2	18400
12.723	H	Animal Planet	27500
12.723	H	Antena 1	27500
12.723	H	Cinemax	27500
12.723	H	Discovery CE	27500
12.723	H	Discovery Sci	27500
12.723	H	Discovery T&L	27500
12.723	H	Discovery World	27500
12.723	H	Hallmark	27500
12.723	H	HBO Romania	27500
12.723	H	Private Spice	27500
12.723	H	Reality TV	27500
12.723	H	TV 1000	27500
12.723	H	Viasat History	27500
12.723	H	ProFM	27500
12.735	V	KTV-R-DUK	8800
12.735	V	RTV21-RADIO21	8800
12.735	V	RTV21-PLUS	8800

THO002KU

Freq GHz	Pol	Channel Name	Symbol rate
●11.216	V	24	24500
11.216	V	Barnkanalen	24500
11.216	V	Kunskapskanalen	24500
●11.216	V	Sky News	24500
11.216	V	TV4	24500
11.216	V	TV4 Fakta	24500
11.216	V	TV4 Film	24500
11.216	V	TV4 plus	24500
11.216	V	TV4 Sport	24500
11.216	V	TV400	24500
11.229	H	Animal Planet	24500
11.229	H	BBC Food	24500
11.229	H	CNN International	24500
11.229	H	Discovery (D)	24500
11.229	H	Discovery (F)	24500
11.229	H	Discovery (N)	24500
11.229	H	Discovery (S)	24500
11.229	H	MTV (N)	24500
11.229	H	Travel Channel	24500
11.247	V	TV 2 Nyhetskanalen	24500
11.247	V	TV 2 Sport	24500
11.247	V	TV 2 Filmkanalen	24500
11.247	V	TV 2 Zebra	24500
11.247	V	BTV-1	24500
●11.247	V	CCTV-9	24500
●11.247	V	GO	24500
11.247	V	On Satellite	24500
11.247	V	Swedbank	24500
11.247	V	Visjon Norge	24500
11.261	H	CANAL 69	24500
11.261	H	CANAL+ ACTION	24500
11.261	H	CANAL+ SPORT 2	24500
11.261	H	Silver	24500
11.261	H	TV 2 Sport 2	24500
11.261	H	TV 2 Sport 3	24500
11.261	H	TV-biljett 4	24500
11.261	H	TV-biljett 5	24500
11.278	V	CANAL+ COMEDY	24500
11.278	V	CANAL+ DRAMA	24500
11.278	V	CANAL+ FIRST	24500
11.278	V	CANAL+ HITS	24500
11.278	V	CANAL+ SPORT 1 (	24500
11.278	V	CANAL+ SPORT 1 (	24500
11.278	V	CANAL+ SPORT 1 (	24500
11.278	V	CANAL+ SPORT 1 (	24500
11.293	H	24Nordjyske	24500
11.293	H	Boomerang	24500
11.293	H	DanToto	24500
11.293	H	dk4	24500
11.293	H	SBS NET	24500
11.293	H	TV2 Zulu	24500
11.293	H	The Voice	24500
11.309	V	Cartoon Network	24500
11.309	V	CNBC	24500
11.309	V	Hallmark	24500
11.309	V	Hlm_Jtx	24500
11.309	V	Kanal 5 (DK)	24500
11.309	V	Nat Geo Channel	24500
11.309	V	Nordic TCM	24500
11.309	V	TCM_Cartoon	24500
11.309	V	VH1	24500
11.309	V	Jetix	24500
11.325	H	BBC Prime	24500
11.325	H	Bloomberg	24500
11.325	H	FEM	24500
11.325	H	History Channel	24500
11.325	H	Showtime	24500
11.325	H	St-Sh TS	24500
11.325	H	Star	24500
11.325	H	Viasat4	24500
11.325	H	BBC World News	24500
11.325	H	Gospel Channel Europ	24500
11.341	V	History Chnl HD	25000
11.341	V	Silver HD	25000
11.341	V	TV4 HD	25000
11.357	H	Disney Channel	24500
11.357	H	Kanal 4 DK	24500
11.357	H	MTV (D)	24500
11.357	H	MTV (F)	24500
11.357	H	MTV (S)	24500
11.357	H	Toon Disney	24500
11.357	H	Voice (DK)	24500
11.357	H	Voice (NO)	24500
11.372	V	NRK1	24500
11.372	V	NRK1 Midtnytt	24500
11.372	V	NRK1 Møre & Romsdal	24500
11.372	V	NRK1 Nordland	24500
11.372	V	NRK1 Rogaland	24500
11.372	V	NRK1 Sørlandet	24500
11.372	V	NRK1 Vestlandsrevyen	24500
11.372	V	NRK1 Østafjells	24500
11.372	V	NRK1 Østfold	24500
11.372	V	NRK1 Østnytt	24500
11.372	V	NRK Super / NRK3	24500
11.372	V	NRK1 Nordnytt	24500
11.372	V	NRK2	24500
11.372	V	NRK1 Tegnspråk	24500
11.372	V	NRK Folkemusikk	24500
11.372	V	NRK Gull	24500
11.372	V	NRK Klassisk	24500
11.372	V	NRK mP3	24500
11.372	V	NRK Nyheter	24500
11.372	V	NRK P1	24500
11.372	V	NRK P2	24500
11.372	V	NRK P3	24500
11.372	V	NRK Sami Radio	24500
11.372	V	NRK Stortinget	24500
11.372	V	NRK Super	24500
11.372	V	NRK Været til sjøs	24500
11.389	H	Kanal 5 Mitt-Norr	24500
11.389	H	Kanal 5 Stockholm	24500
11.389	H	Kanal 5 Syd	24500
11.389	H	Kanal 5 Väst	24500
11.389	H	Kanal 9	24500
11.389	H	TV3 (S)	24500
11.389	H	TV7	24500
11.403	V	DR Update	24500
11.403	V	DR1	24500
11.403	V	DR2	24500
11.403	V	RUV	24500
11.403	V	TV2 Charlie	24500
11.403	V	TV2 Film	24500
11.403	V	LifeStyleTV	24500
11.403	V	DR Klassisk	24500
11.403	V	DR P1	24500
11.403	V	DR P2	24500
11.403	V	DR P3	24500
11.403	V	DR P4 København	24500
11.403	V	RUV Ras 1	24500
11.403	V	RUV Ras 2	24500
11.421	H	CANAL+ FILM HD	25000
11.421	H	CANAL+ SPORT HD	25000
11.421	H	SVT HD	25000
11.434	V	Nat Geo HD	25000
11.434	V	Voom HD	25000
12.380	V	Acasa	28000
12.380	V	Animal Planet	28000
12.380	V	Antena 3	28000
12.380	V	AXN	28000
12.380	V	Cartoon Network/TCM	28000
12.380	V	Cinemax	28000
12.380	V	CNN	28000
12.380	V	HBO	28000
12.380	V	Kiss TV	28000
12.380	V	National Geographic	28000
12.380	V	Pro Cinema	28000
12.380	V	Pro TV	28000
12.380	V	Pro TV International	28000
12.380	V	Sport.ro	28000
12.380	V	VH1	28000
12.380	V	Activ FM	28000
12.380	V	Itsy Bitsy FM	28000
12.380	V	Kiss FM	28000
12.380	V	Magic FM	28000
12.380	V	Radio Guerrilla	28000
12.380	V	Radio Romania Muzica	28000
12.380	V	Radio Timisoara	28000

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Freq GHz	Pol	Channel Name	Symbol rate
11.823	H	Moldova 1	28000
11.823	H	N4	28000
11.823	H	NIT	28000
11.823	H	Pervii Canal Moldova	28000
11.823	H	Pro TV Chisinau	28000
11.823	H	TV7	28000
11.823	H	BGTV	28000
11.823	H	Chance TV	28000
11.823	H	EU TV	28000
11.823	H	Latina F	28000
11.823	H	Mynele TV	28000
11.823	H	Party TV	28000
11.823	H	Speranta TV	28000
11.823	H	Tiankov TV	28000
11.823	H	Radio Antena C	28000
11.823	H	Radio Vocea Sperante	28000
12.054	H	MTV3	28000
12.054	H	Nelonen	28000
12.054	H	YLE FST	28000
12.054	H	YLE Teema	28000
12.054	H	YLE TV1	28000
12.054	H	YLE TV2	28000
12.054	H	YLE MONDO	28000
12.054	H	YLE PEILI	28000
12.054	H	YLEN KLASSINEN	28000
12.149	V	Antena 2	28000
12.149	V	B1	28000
12.149	V	Discovery	28000
12.149	V	Discovery Science	28000
12.149	V	Discovery Travel	28000
12.149	V	Euforia Lifestyle	28000
12.149	V	Extreme Sports	28000
12.149	V	Kanal D	28000
12.149	V	MGM	28000
12.149	V	N24	28000
12.149	V	Reality/BlueHustler	28000
12.149	V	Sport Klub	28000
12.149	V	Sport1	28000
12.149	V	Viasat Explorer/Club	28000
12.149	V	Viasat History	28000
12.149	V	60's	28000
12.149	V	Bass, Breaks & Beats	28000
12.149	V	Chansons	28000
12.149	V	Chillout	28000
12.149	V	Classic RnB & Soul	28000
12.149	V	Classsical Greats	28000
12.149	V	Jazz Classic	28000
12.149	V	Rock Anthems	28000
12.149	V	Rock'n'Roll Era	28000
12.149	V	Total Hits Italy	28000
12.149	V	Total Hits UK	28000
12.169	H	MSAT	28000
12.169	H	Planeta TV	28000
12.169	H	TV2	28000
12.169	H	CETV	28000
12.169	H	City TV	28000
12.169	H	Heros TV	28000
12.169	H	McBox	28000
12.169	H	SKAT	28000
12.169	H	Telestar TV	28000
12.169	H	TV LUX	28000
12.169	H	Alpha 3	28000
12.169	H	Alpha Radio	28000
12.169	H	BG Radio	28000
12.169	H	ENERGY	28000
12.169	H	Focus Pirin	28000
12.169	H	Focus Sofia	28000
12.169	H	Focus V Tarnovo	28000
12.169	H	Focus Varna	28000
12.169	H	HIT FM	28000
12.169	H	HORNET Radio	28000
12.169	H	Njoy	28000
12.169	H	OMV ROMANIA	28000
12.169	H	Radio 1	28000
12.169	H	Radio City	28000
12.169	H	Radio City 2	28000
12.169	H	Radio FM+	28000
12.169	H	Radio Fresh	28000
● 12.169	H	Radio Mila	28000
● 12.169	H	Radio1 Rock	28000
12.169	H	STAR FM	28000
12.169	H	Test Radio	28000
● 12.169	H	Veronika	28000
12.169	H	Z-ROCK	28000
12.226	V	ESPN Classic	28000
12.226	V	HustlerTV	28000
12.226	V	KinoTV	28000
12.226	V	NASN	28000
12.226	V	TV 2 Sport 4	28000
12.226	V	TV 2 Sport 5	28000
12.226	V	TV3 (N)	28000
12.226	V	TV8	28000
12.226	V	Scandinavian Satelit	28000
12.245	H	Antena 1	28000
12.245	H	Favorit TV	28000
12.245	H	Hallmark	28000
12.245	H	Hustler TV	28000
12.245	H	Minimax	28000
12.245	H	MTV Romania	28000
12.245	H	National TV	28000
12.245	H	Prima TV	28000
12.245	H	Realitatea TV	28000
12.245	H	Romantica	28000
12.245	H	Telesport	28000
12.245	H	TVR 1	28000
12.245	H	TVR 2	28000
12.245	H	TVR Cultural	28000
12.245	H	FocusSat TV	28000
12.303	V	24	27800
12.303	V	24 GävledalaNytt	27800
12.303	V	24 MittNytt	27800
12.303	V	24 NordNytt	27800
12.303	V	24 SmålandsNytt	27800
12.303	V	24 SydNytt	27800
12.303	V	24 TvärsNytt	27800
12.303	V	24 VärmlandsNytt	27800
12.303	V	24 VästerbottenNytt	27800
12.303	V	24 VästNytt	27800
12.303	V	24 ÖstNytt	27800
12.303	V	SVT1	27800
12.303	V	SVT1 Gävle	27800
12.303	V	SVT1 Gävledala	27800
12.303	V	SVT1 Jämtland	27800
12.303	V	SVT1 Jönköping	27800
12.303	V	SVT1 MittNytt	27800
12.303	V	SVT1 NordNytt	27800
12.303	V	SVT1 SmålandsNytt	27800
12.303	V	SVT1 SydNytt	27800
12.303	V	SVT1 TvärsNytt	27800
12.303	V	SVT1 VärmlandsNytt	27800
12.303	V	SVT1 VästerbottenNyt	27800
12.303	V	SVT1 VästNytt	27800
12.303	V	SVT1 ÖstNytt	27800
12.303	V	SVT2	27800
12.303	V	SVT2 Gävle	27800
12.303	V	SVT2 Gävledala	27800
12.303	V	SVT2 Jämtland	27800
12.303	V	SVT2 Jönköping	27800
12.303	V	SVT2 MittNytt	27800
12.303	V	SVT2 NordNytt	27800
12.303	V	SVT2 SmålandsNytt	27800
12.303	V	SVT2 SydNytt	27800
12.303	V	SVT2 TvärsNytt	27800
12.303	V	SVT2 VärmlandsNytt	27800
12.303	V	SVT2 VästerbottenNyt	27800
12.303	V	SVT2 VästNytt	27800
12.303	V	SVT2 ÖstNytt	27800

Freq GHz	Pol	Channel Name	Symbol rate
12.322	H	TV 2 Norge	27800
12.322	H	AlJazeera English	27800
12.322	H	JIM	27800
12.322	H	Playhouse Disney	27800
12.322	H	Rikstoto Direkte	27800
12.322	H	SubTV	27800
12.322	H	TVNorge	27800
12.322	H	P4	27800
12.322	H	Radio Norge	27800
12.322	H	Radio Paris Oslo	27800
● 12.399	H	Nelonen HD	28000
12.399	H	CCTV9	28000
● 12.399	H	Musiq1	28000
12.399	H	Nautik	28000
12.399	H	Toto-TV	28000
12.399	H	TV Patriot	28000
12.399	H	EXPRES mp2	28000
12.399	H	KISS	28000
12.456	V	Discov Science	28000
12.456	V	Discov Trav&liv	28000
12.456	V	Discov World	28000
12.456	V	Motors TV	28000
12.456	V	Nick (S)-VH1C TS	28000
12.456	V	Nick-VH1C TS	28000
12.456	V	Sky News	28000
12.456	V	VH1 Classic	28000
● 12.456	V	207	28000
● 12.456	V	208	28000
● 12.456	V	209	28000
● 12.456	V	210	28000
● 12.456	V	211	28000
● 12.456	V	212	28000
● 12.456	V	213	28000
● 12.456	V	214	28000
● 12.456	V	215	28000
● 12.456	V	216	28000
● 12.456	V	217	28000
● 12.456	V	218	28000
● 12.456	V	219	28000
● 12.456	V	220	28000
● 12.456	V	221	28000
● 12.456	V	222	28000
● 12.456	V	223	28000
● 12.456	V	224	28000
● 12.456	V	225	28000
● 12.456	V	226	28000
12.476	H	Eurosport	27800
12.476	H	Eurosport 2	27800
12.476	H	TV-biljett 1	27800
12.476	H	TV-biljett 2	27800
12.476	H	TV-biljett 3	27800
12.476	H	TV4 Guld	27800
12.476	H	TV4 Komedi	27800
12.476	H	TV4 Science Fiction	27800
● 11.341	V	Eurosport	24500
● 11.341	V	Eurosport 2	24500
● 11.341	V	TV-biljett 1	24500
● 11.341	V	TV-biljett 2	24500
● 11.341	V	TV-biljett 3	24500
● 11.341	V	TV4 Guld	24500
● 11.341	V	TV4 Komedi	24500
● 11.341	V	TV4 Science Fiction	24500
● 11.421	H	24	24500
● 11.421	H	24 GävledalaNytt	24500
● 11.421	H	24 MittNytt	24500
● 11.421	H	24 NordNytt	24500
● 11.421	H	24 SmålandsNytt	24500
● 11.421	H	24 SydNytt	24500
● 11.421	H	24 TvärsNytt	24500
● 11.421	H	24 VärmlandsNytt	24500
● 11.421	H	24 VästerbottenNytt	24500
● 11.421	H	24 VästNytt	24500
● 11.421	H	24 ÖstNytt	24500
● 11.421	H	SVT1	24500
● 11.421	H	SVT1 Gävle	24500
● 11.421	H	SVT1 Gävledala	24500
● 11.421	H	SVT1 Jämtland	24500
● 11.421	H	SVT1 Jönköping	24500
● 11.421	H	SVT1 MittNytt	24500
● 11.421	H	SVT1 NordNytt	24500
● 11.421	H	SVT1 SmålandsNytt	24500
● 11.421	H	SVT1 SydNytt	24500
● 11.421	H	SVT1 TvärsNytt	24500
● 11.421	H	SVT1 VärmlandsNytt	24500
● 11.421	H	SVT1 VästerbottenNyt	24500
● 11.421	H	SVT1 VästNytt	24500
● 11.421	H	SVT1 ÖstNytt	24500
● 11.421	H	SVT2	24500
● 11.421	H	SVT2 Gävle	24500
● 11.421	H	SVT2 Gävledala	24500
● 11.421	H	SVT2 Jämtland	24500
● 11.421	H	SVT2 Jönköping	24500
● 11.421	H	SVT2 MittNytt	24500
● 11.421	H	SVT2 NordNytt	24500
● 11.421	H	SVT2 SmålandsNytt	24500
● 11.421	H	SVT2 SydNytt	24500
● 11.421	H	SVT2 TvärsNytt	24500
● 11.421	H	SVT2 VärmlandsNytt	24500
● 11.421	H	SVT2 VästerbottenNyt	24500
● 11.421	H	SVT2 VästNytt	24500
● 11.421	H	SVT2 ÖstNytt	24500
● 11.434	V	MTV3	24500
● 11.434	V	Nelonen	24500
● 11.434	V	YLE FST	24500
● 11.434	V	YLE Teema	24500
● 11.434	V	YLE TV1	24500
● 11.434	V	YLE TV2	24500
● 11.434	V	YLE MONDO	24500
● 11.434	V	YLE PEILI	24500
● 11.434	V	YLEN KLASSINEN	24500
● 11.746	H	TVPaprika	28000
● 11.746	H	Cosmos TV	28000
● 11.746	H	Kanal D	28000
● 11.747	H	TVPaprika	28000
● 11.747	H	Cosmos TV	28000
● 11.747	H	Kanal D	28000
11.785	H	Axn Crime	28000
11.785	H	Axn Sci-Fi	28000
11.785	H	Credo	28000
11.785	H	Fishing & Hunting	28000
11.785	H	GSP 1	28000
11.785	H	GSP 2	28000
11.785	H	HBO Comedy	28000
11.785	H	Mezzo	28000
11.785	H	Money Channel	28000
11.785	H	Nat Geo Wild CE	28000
11.785	H	Nat Geo Wild RO	28000
11.785	H	Trinitas	28000
● 11.785	H	TV 6	28000
11.785	H	Music Channel	28000
11.785	H	Radio GaGa	28000
● 11.938	H	CANAL+ SPORT HD	25000
● 11.938	H	CANAL+ FILM HD	25000
● 11.938	H	SVT HD	25000
12.015	H	Eurosport HD	30000
12.015	H	Kanal 5 HD	30000
● 12.015	H	TVNorge HD	30000
12.128	H	History Chnl HD	30000
12.128	H	Silver HD	30000
12.128	H	TV4 HD	30000
● 12.128	H	TVNorge HD	30000
● 12.188	V	Nat Geo HD	25000
● 12.188	V	Voom HD	25000
12.418	V	DR1 Syd	28000
12.418	V	DR2 Syd	28000
12.418	V	DTV2(Cable)	28000
12.418	V	NRK1 Reserve	28000
12.418	V	TV Finland	28000
● 12.418	V	Nautik	28000
● 12.418	V	SmartCasino	28000
12.418	V	The Poker Channel	28000
● 12.418	V	TV Patriot	28000
12.418	V	DR Klassisk Syd	28000
12.418	V	DR P1 Syd	28000
12.418	V	DR P2 Syd	28000
12.418	V	DR P3 Syd	28000
12.418	V	DR P4 KBH Syd	28000
● 12.418	V	EXPRES mp2	28000
● 12.418	V	KISS	28000
12.418	V	NRK AN Reserve	28000
12.418	V	NRK P1 Reserve	28000
● 12.418	V	Scandinavia Sat. R	28000
12.418	V	Ylesat 1	28000
12.418	V	Ylesat 2	28000
12.428	V	DR1 Syd	28000

Freq GHz	Pol	Channel Name	Symbol rate
12.428	V	DR2 Syd	28000
12.428	V	DTV2(Cable)	28000
12.428	V	NRK1 Reserve	28000
12.428	V	TV Finland	28000
● 12.428	V	Nautik	28000
● 12.428	V	SmartCasino	28000
12.428	V	The Poker Channel	28000
● 12.428	V	TV Patriot	28000
12.428	V	DR Klassisk Syd	28000
12.428	V	DR P1 Syd	28000
12.428	V	DR P2 Syd	28000
12.428	V	DR P3 Syd	28000
12.428	V	DR P4 KBH Syd	28000
● 12.428	V	EXPRES mp2	28000
● 12.428	V	KISS	28000
12.428	V	NRK AN Reserve	28000
12.428	V	NRK P1 Reserve	28000
● 12.428	V	Scandinavia Sat. R	28000
12.428	V	Ylesat 1	28000
12.428	V	Ylesat 2	28000

C-Band: INTELSAT 10-02
359.1 East (0.9 West)

Freq GHz	Pol	Channel Name	Symbol rate
4.025	R	BBC Afr Feed 1	7323
● 4.025	R	BBC Afr Feed 2	7323
● 4.025	R	BBC Afr Feed 3	7323
● 4.025	R	BBC Afr Feed 4	7323
● 4.025	R	BBC Afr Feed 5	7323
● 4.025	R	BBC Afr Feed 6	7323
● 4.025	R	BBC Afr Feed 7	7323
● 4.025	R	BBC Afr Feed 8	7323
4.025	R	BBC Arabic	7323
4.025	R	BBC Dari	7323
4.025	R	BBC English (E Af.	7323
4.025	R	BBC English (Europe)	7323
4.025	R	BBC English (W Af.	7323
4.025	R	BBC English Mid-Ea	7323
4.025	R	BBC English News	7323
4.025	R	BBC Farsi	7323
4.025	R	BBC French	7323
4.025	R	BBC Hausa	7323
4.025	R	BBC Pashto	7323
4.025	R	BBC Portuguese	7323
4.025	R	BBC Somali	7323
4.025	R	BBC Swahili	7323
4.175	R	AFN Family	28000
4.175	R	AFN Freedom	28000
4.175	R	AFN Movie	28000
4.175	R	AFN News	28000
4.175	R	AFN Prime Atlantic	28000
4.175	R	AFN Prime Pacific	28000
4.175	R	AFN Spectrum	28000
4.175	R	AFN Sports	28000
4.175	R	AFN Xtra	28000
4.175	R	Atlantic 2	28000
4.175	R	Atlantic 3	28000
4.175	R	Atlantic 4	28000
4.175	R	Atlantic 5	28000
4.175	R	Atlantic 6	28000
4.175	R	Atlantic 7	28000
4.175	R	Atlantic 8	28000
4.175	R	Atlantic 9	28000
4.175	R	Engineering Channel	28000
4.175	R	Adult Rock	28000
4.175	R	AFN Back-up for A	28000
4.175	R	AFN Back-up to AFN	28000
4.175	R	AFN Back-up to AF	28000
4.175	R	AFN Program Guide	28000
4.175	R	AFN Radio Variable	28000
4.175	R	Backhaul from Baghda	28000
4.175	R	Backhaul to Japan	28000
4.175	R	Bright AC	28000
4.175	R	Contingency (Closed	28000
4.175	R	ESPN Plus	28000
4.175	R	Fox Sports Talk	28000
4.175	R	Hot AC	28000
4.175	R	Interruptable Voice	28000
4.175	R	Mainstream Country	28000
4.175	R	NPR International	28000
4.175	R	Oldies	28000
4.175	R	SMPTE Time Code	28000
4.175	R	The Pentagon Channel	28000
4.175	R	The Touch	28000
4.175	R	U/I Split /UIVoice	28000
4.175	R	Uninterruptable Voic	28000
4.175	R	Z-Rock (ABC Altern	28000
● 4.180	L	egy tv net feed- 1	21050
● 4.180	L	egy tv net feed- 2	21050
4.180	L	El-Masrya	21050
4.180	L	El-Masrya-USA	21050
● 4.180	L	Monwa'at	21050
4.180	L	Nile Drama	21050
4.180	L	Nile News	21050
4.180	L	Nile TV Int	21050
3.855	R	RTG 1	10000
3.855	R	RTG 2	10000
3.855	R	TV+	10000
3.977	R	BTV	17777
3.977	R	NBCTV	17777
3.977	R	1kHzTone	17777
3.977	R	CH 7/ OMULUNGA	17777
3.977	R	CH7 OWA L	17777
3.977	R	ENERGY/WAVE	17777
3.977	R	FREE 10	17777
3.977	R	FREE 8	17777
3.977	R	FREE 9	17777
3.977	R	GER/OVA	17777
3.977	R	HER/DN	17777
3.977	R	KOSMOS(L)	17777
3.977	R	NATIONAL	17777
3.977	R	OKC/TSWANA	17777
3.977	R	RAD99/KUDU	17777
3.977	R	REMsw	17777
3.977	R	RUK/LOZI	17777
3.977	R	SABA	17777
3.985	R	Reuters WNS	4000
4.025	R	BBC Afr Feed 1	7324
● 4.025	R	BBC Afr Feed 2	7324
● 4.025	R	BBC Afr Feed 3	7324
● 4.025	R	BBC Afr Feed 4	7324
● 4.025	R	BBC Afr Feed 5	7324
● 4.025	R	BBC Afr Feed 6	7324
● 4.025	R	BBC Afr Feed 7	7324
● 4.025	R	BBC Afr Feed 8	7324
4.025	R	BBC Arabic	7324
4.025	R	BBC Dari	7324
4.025	R	BBC English (E Af.	7324
4.025	R	BBC English (Europe)	7324
4.025	R	BBC English (W Af.	7324
4.025	R	BBC English Mid-Ea	7324
4.025	R	BBC English News	7324
4.025	R	BBC Farsi	7324
4.025	R	BBC French	7324
4.025	R	BBC Hausa	7324
4.025	R	BBC Pashto	7324
4.025	R	BBC Portuguese	7324
4.025	R	BBC Somali	7324
4.025	R	BBC Swahili	7324

INTELSAT 10-02
359.0 East (1.0 West)

Freq GHz	Pol	Channel Name	Symbol rate
12.520	V	DR1 Syd	17500
12.520	V	DR2 Syd	17500
12.520	V	NRK1 Reserve	17500
12.520	V	TV Finland	17500
12.520	V	DR Klassisk Syd	17500
12.520	V	DR P1 Syd	17500
12.520	V	DR P2 Syd	17500
12.520	V	DR P3 Syd	17500
12.520	V	DR P4 KBH Syd	17500
12.520	V	NRK AN Reserve	17500
12.520	V	NRK P1 Reserve	17500
12.520	V	Scandinavian Satelli	17500
12.520	V	Ylesat 1	17500
12.520	V	Ylesat 2	17500
12.527	H	Antena 3	27500
12.527	H	ATV	27500
12.527	H	Cartoon Network	27500
12.527	H	Duna TV	27500
12.527	H	Euforia TV	27500
12.527	H	Favorit TV	27500
12.527	H	Hallmark CE	27500
12.527	H	Romantica Ro	27500
12.527	H	Sport Klub HU	27500
12.527	H	Sport Klub RO	27500
12.527	H	Sport ro	27500
12.527	H	TVR2	27500
12.527	H	VH1	27500
12.527	H	InfoPRO	27500
12.527	H	Europa FM	27500
12.527	H	Guerrilla	27500
12.563	H	4 Story Tv	27500
12.563	H	HBO 2	27500
12.563	H	HBO Hungaria	27500
12.563	H	Jetix CE	27500
12.563	H	M1	27500
12.563	H	M2	27500
12.563	H	Minimax	27500
12.563	H	MTV Hungary	27500
12.563	H	Romantica Hu	27500
12.563	H	Spektrum	27500
12.563	H	Sport 1	27500
12.563	H	Sport 2	27500
12.563	H	Viva Tv	27500
12.563	H	Juventus Radio	27500
12.563	H	Roxy Radio	27500
12.563	H	Radio Maria	27500
12.607	V	Analog Tv	27500
12.607	V	CMC	27500
12.607	V	DM SAT	27500
12.607	V	Galaksija	27500
12.607	V	Hbo Adria	27500
12.607	V	MTV Adria	27500
12.607	V	NOVA TV	27500
12.607	V	OBN	27500
12.607	V	Otvorena TV	27500
12.607	V	RTL Televizija	27500
12.607	V	RTS 1	27500
12.607	V	RTS 2	27500
12.607	V	Service	27500
12.607	V	Z 1	27500
12.607	V	A 1	27500
12.643	H	Acasa	27500
12.643	V	Animal Planet CE	27500
12.643	H	AXN	27500
12.643	H	Cool TV	27500
12.643	V	Discovery Ch	27500
12.643	H	Film +	27500
12.643	V	Film + CE	27500
12.643	V	Film Box	27500
12.643	V	Galaxie Sport	27500
12.643	H	HBO CE	27500
12.643	H	Hir TV	27500
12.643	V	Joj	27500
12.643	V	Markiza	27500
12.643	V	Music Box	27500
12.643	H	National Geo	27500
12.643	V	Ocko	27500
12.643	H	ProTV	27500
12.643	V	Reality CE	27500
12.643	H	RTL Klub	27500
12.643	V	TA 3	27500
12.643	H	TV 2	27500
12.643	H	Viasat 3	27500
12.643	H	Viasat Explorer	27500
12.643	H	DDTV	27500
12.643	V	Pratech	27500
12.643	H	U	27500
12.643	H	Sztar FM	27500
12.643	V	National FM	27500
12.643	H	Radio 21	27500
12.643	H	Radio S	27500
12.687	H	B1 TV	27500
12.687	V	CT1	27500
12.687	V	CT2	27500
12.687	V	CT4_SPORT	27500
12.687	H	Etno	27500
12.687	H	EuroSport	27500
12.687	H	Jetix	27500
12.687	H	Kiss TV	27500
12.687	H	Minimax RO A+	27500
12.687	V	Money Channel	27500
12.687	H	MTV Romania	27500
12.687	H	N 24	27500
12.687	H	National TV	27500
12.687	V	NOVA_CZ	27500
12.687	H	Prima TV	27500
12.687	V	PRIMA_CZ	27500
12.687	V	Pro Tv International	27500
12.687	H	Realitatea TV	27500
12.687	V	Romantica CE	27500
12.687	V	Sport1 SK-CZ	27500
12.687	V	STV 1	27500
12.687	V	STV 2	27500
12.687	V	Test Channel	27500
12.687	H	TVR1	27500
12.687	V	TVS Oradea	27500
12.687	V	CT24	27500
12.687	H	OTV	27500
12.722	H	Animal Planet	27500
12.722	H	Antena 1	27500
12.722	H	Cinemax	27500
12.722	H	Discovery CE	27500
12.722	H	Discovery Civ	27500
12.722	H	Discovery Sci	27500
12.722	H	Discovery T&L	27500
12.722	H	Hallmark	27500
12.722	H	HBO Romania	27500
12.722	H	Private Spice	27500
12.722	H	Reality TV	27500
12.722	H	TV 1000	27500
12.722	H	Viasat History	27500
12.722	H	ProFM	27500
12.735	V	{Empty}	8800

Freq GHz	Pol	Channel Name	Symbol rate
11.216	V	Barnkanalen	24500
11.216	V	Kunskapskanalen	24500
11.216	V	SVT Extra	24500
11.216	V	SVT1	24500
11.216	V	TV4	24500
11.216	V	TV4 Fakta	24500
11.216	V	TV4 Film	24500
11.216	V	TV4 plus	24500
11.216	V	TV4 Sport	24500
11.216	V	TV400	24500
11.247	V	TV 2 Sport	24500
11.247	V	TV 2 Filmkanalen	24500
11.247	V	TV 2 Nyhetskanalen	24500
11.247	V	TV 2 Zebra	24500
11.247	V	BTV-1	24500
11.247	V	On Satellite	24500
11.247	V	Swedbank	24500
11.247	V	Thor 5 Launch	24500
11.247	V	Visjon Norge	24500
11.261	H	Aftonbladet TV7	24500
11.261	H	CANAL 69	24500
11.261	H	CANAL+ ACTION	24500
11.261	H	CANAL+ SPORT 2	24500
11.261	H	DiTV	24500
11.261	H	Silver	24500
11.261	H	TV 2 Sport 2	24500
11.261	H	TV-biljett 4	24500
11.261	H	TV-biljett 5	24500
11.261	H	TV 2 Sport 3	24500
11.309	V	Cartoon Network	24500
11.309	V	CNBC Europe	24500
11.309	V	Hallmark	24500
11.309	V	Hlm_Jtx	24500
11.309	V	Kanal 5	24500
11.309	V	Kanal 5 (DK)	24500
11.309	V	Nat Geo Channel	24500
11.309	V	Nordic TCM	24500
11.309	V	TCM_Cartoon	24500
11.309	V	VH1	24500
11.309	V	_PMT 1	24500
11.309	V	Jetix	24500
11.325	H	BBC Prime	24500
11.325	H	Bloomberg	24500
11.325	H	FEM	24500
11.325	H	History Channel	24500
11.325	H	Showtime	24500
11.325	H	St-Sh TS	24500
11.325	H	Star	24500
11.325	H	Viasat 4	24500
11.325	H	BBC World	24500
11.325	H	Gospel Channel Europ	24500
11.341	V	History Chnl HD	25000
11.341	V	Silver HD	25000
11.341	V	svt-hd old	25000
11.341	V	Test	25000
11.341	V	TV4 HD	25000
11.357	H	Blue Hustler	24500
11.357	H	Disney Channel	24500
11.357	H	Kanal 4 DK	24500
11.357	H	MTV (D)	24500
11.357	H	MTV (F)	24500
11.357	H	MTV (S)	24500
11.357	H	Voice (DK)	24500
11.357	H	Voice (NO)	24500
11.357	H	Voice (SE)	24500
11.372	V	NRK Super / NRK3	24500
11.372	V	NRK1	24500
11.372	V	NRK1 Midtnytt	24500
11.372	V	NRK1 Møre & Romsdal	24500
11.372	V	NRK1 Nordland	24500
11.372	V	NRK1 Nordnytt	24500
11.372	V	NRK1 Rogaland	24500
11.372	V	NRK1 Sørlandet	24500
11.372	V	NRK1 Vestlandsrevyen	24500
11.372	V	NRK1 Østafjells	24500
11.372	V	NRK1 Østfold	24500
11.372	V	NRK1 Østnytt	24500
11.372	V	NRK2	24500
11.372	V	NRK1 Tegnspråk	24500
11.372	V	NRK Folkemusikk	24500
11.372	V	NRK Gull	24500
11.372	V	NRK Klassisk	24500
11.372	V	NRK mP3	24500
11.372	V	NRK Nyheter	24500
11.372	V	NRK P1	24500
11.372	V	NRK P2	24500
11.372	V	NRK P3	24500
11.372	V	NRK Sami Radio	24500
11.372	V	NRK Stortinget	24500
11.372	V	NRK Super	24500
11.372	V	NRK Været til sjøs	24500
11.389	H	CANAL+ FILM HD	24500
11.389	H	Aftonbladet TV7	24500
11.389	H	DiTV	24500
11.389	H	DTV2(Cable)	24500
11.389	H	Kanal 9	24500
11.389	H	TV-biljett 4	24500
11.389	H	TV-biljett 5	24500
11.389	H	TV3 (S)	24500
11.389	H	St-Sh TS PMT	24500
11.403	V	DR Update	24500
11.403	V	DR1	24500
11.403	V	DR1 MHP	24500
11.403	V	DR2	24500
11.403	V	DR2 MHP	24500
11.403	V	RUV	24500
11.403	V	TV2 Charlie	24500
11.403	V	TV2 Film	24500
11.403	V	LifeStyleTV	24500
11.403	V	DR Klassisk	24500
11.403	V	DR P1	24500
11.403	V	DR P2	24500
11.403	V	DR P3	24500
11.403	V	DR P4 København	24500
11.403	V	RUV Ras 1	24500
11.403	V	RUV Ras 2	24500
11.421	H	CANAL+ FILM HD	25000
11.421	H	CANAL+ SPORT HD	25000
11.421	H	SVT HD	25000
11.421	H	TV4 HD	25000
11.434	V	Nat Geo HD	25000
11.434	V	Voom HD	25000
12.380	V	Acasa	28000
12.380	V	Animal Planet	28000
12.380	V	Antena 3	28000
12.380	V	AXN	28000
12.380	V	Cartoon Network/TCM	28000
12.380	V	Cinemax	28000
12.380	V	CNN	28000
12.380	V	HBO	28000
12.380	V	Kiss TV	28000
12.380	V	National Geographic	28000
12.380	V	Pro Cinema	28000
12.380	V	Pro TV	28000
12.380	V	Pro TV International	28000
12.380	V	Sport.ro	28000
12.380	V	VH1	28000
12.380	V	Activ FM	28000
12.380	V	Itsy Bitsy FM	28000
12.380	V	Kiss FM	28000
12.380	V	Magic FM	28000
12.380	V	Radio Guerrilla	28000
12.380	V	Radio Romania Muzica	28000
12.380	V	Radio Timisoara	28000

Freq GHz	Pol	Channel Name	Symbol rate
11.823	H	Test CA	28000
11.823	H	BGTV	28000
11.823	H	Chance TV	28000
11.823	H	MM	28000
11.823	H	Party TV	28000
11.823	H	RodinaTV	28000
11.823	H	Speranta TV	28000
11.823	H	Tiankov TV	28000
11.823	H	Travel TV	28000
11.823	H	Radio Vocea Sperante	28000
12.149	V	Antena 2	28000
12.149	V	B1 TV	28000
12.149	V	Discovery	28000
12.149	V	Discovery Science	28000
12.149	V	Discovery Travel	28000
12.149	V	Euforia Lifestyle	28000
12.149	V	Extreme Sports	28000
12.149	V	Kanal D	28000
12.149	V	MGM	28000
12.149	V	N24	28000
12.149	V	Reality/BlueHustler	28000
12.149	V	Sport Klub	28000
12.149	V	Sport1	28000
12.149	V	Viasat Explorer/Club	28000
12.149	V	Viasat History	28000
12.149	V	60's	28000
12.149	V	Bass, Breaks & Beats	28000
12.149	V	Chansons	28000
12.149	V	Chillout	28000
12.149	V	Classic RnB & Soul	28000
12.149	V	Classsical Greats	28000
12.149	V	Jazz Classic	28000
12.149	V	Rock Anthems	28000
12.149	V	Rock'n'Roll Era	28000
12.149	V	Total Hits Italy	28000
12.149	V	Total Hits UK	28000
12.169	H	Diema 2	28000
12.169	H	Diema Family	28000
12.169	H	Diema+	28000
12.169	H	MSAT	28000
12.169	H	Planeta TV	28000
12.169	H	TV2	28000
12.169	H	City TV	28000
12.169	H	DKTE	28000
12.169	H	Heros TV	28000
12.169	H	McBox	28000
12.169	H	SKAT	28000
12.169	H	Telestar TV	28000
12.169	H	Alpha Radio	28000
12.169	H	BG Radio	28000
12.169	H	ENERGY	28000
12.169	H	Focus Pirin	28000
12.169	H	Focus V Tarnovo	28000
12.169	H	Focus Varna	28000
12.169	H	Info Radio	28000
12.169	H	Njoy	28000
12.169	H	OMV ROMANIA	28000
12.169	H	Radio 1	28000
12.169	H	Radio City	28000
12.169	H	Radio City 2	28000
12.169	H	Radio FM+	28000
12.169	H	Radio Fresh	28000
12.169	H	Radio Mila	28000
12.169	H	Test Radio	28000
12.169	H	Z-ROCK	28000
12.226	V	ESPN Classic	28000
12.226	V	Extreme Sports	28000
12.226	V	HustlerTV	28000
12.226	V	KinoTV	28000
12.226	V	NASN	28000
12.226	V	TV8	28000
12.226	V	Hallo Norge	28000
12.226	V	Scandinavian Satelit	28000
12.246	H	Antena 1	28000
12.246	H	Favorit TV	28000
12.246	H	Hallmark	28000
12.246	H	Hustler TV	28000
12.246	H	Minimax	28000
12.246	H	MTV Romania	28000
12.246	H	National TV	28000
12.246	H	Prima TV	28000
12.246	H	Realitatea TV	28000
12.246	H	Romantica	28000
12.246	H	Telesport	28000
12.246	H	TVR 1	28000
12.246	H	TVR 2	28000
12.246	H	TVR Cultural	28000
12.246	H	FocusSat TV	28000
12.303	V	24	27800
12.303	V	24 GävledalaNytt	27800
12.303	V	24 MittNytt	27800
12.303	V	24 NordNytt	27800
12.303	V	24 SmålandsNytt	27800
12.303	V	24 SydNytt	27800
12.303	V	24 TvärsNytt	27800
12.303	V	24 VärmlandsNytt	27800
12.303	V	24 VästerbottenNytt	27800
12.303	V	24 VästNytt	27800
12.303	V	24 ÖstNytt	27800
12.303	V	SVT2	27800
12.303	V	SVT2 Gävle	27800
12.303	V	SVT2 Gävledala	27800
12.303	V	SVT2 Jämtland	27800
12.303	V	SVT2 Jönköping	27800
12.303	V	SVT2 MittNytt	27800
12.303	V	SVT2 NordNytt	27800
12.303	V	SVT2 SmålandsNytt	27800
12.303	V	SVT2 SydNytt	27800
12.303	V	SVT2 TvärsNytt	27800
12.303	V	SVT2 VärmlandsNytt	27800
12.303	V	SVT2 VästerbottenNyt	27800
12.303	V	SVT2 VästNytt	27800
12.303	V	SVT2 ÖstNytt	27800
12.303	V	SVT1 Synth Audio	27800
12.303	V	SVT1 Talande Textrem	27800
12.303	V	SVT2 Synth Audio	27800
12.303	V	SVT2 Talande Textrem	27800
12.322	H	TV 2 Norge	27800
12.322	H	AlJazeera English	27800
12.322	H	JIM	27800
12.322	H	Playhouse Disney	27800
12.322	H	Rikstoto Direkte	27800
12.322	H	SubTV	27800
12.322	H	TVNorge	27800
12.322	H	DUEN RADIO	27800
12.322	H	KANAL 24	27800
12.322	H	P4	27800
12.322	H	Radio Paris Oslo	27800
12.399	H	Kanal 5 HD	28000
12.399	H	CCTV9	28000
12.399	H	FM-TV	28000
12.399	H	Moooby TV	28000
12.399	H	Nautik	28000
12.399	H	Thor 5 Launch	28000
12.399	H	Toto-TV	28000
12.399	H	TV 5 MONDE	28000
12.399	H	TV Patriot	28000
12.399	H	KISS	28000
12.456	V	Blues	28000
12.456	V	Classic Greats	28000
12.456	V	Classic Orches	28000
12.456	V	Classic Rock	28000
12.456	V	Classical Calm	28000
12.456	V	Cocktail Lounge	28000
12.456	V	Country Stars	28000
12.456	V	Dance Floor	28000
12.456	V	Discov Civil	28000
12.456	V	Discov Science	28000
12.456	V	Discov Trav&liv	28000
12.456	V	DTV2 (Cable)	28000
12.456	V	Jazz Classics	28000
12.456	V	Just Chill Out	28000
12.456	V	Motors TV	28000
12.456	V	Nick-VH1C TS	28000
12.456	V	Rock Anthems	28000
12.456	V	Sky News	28000
12.456	V	Soul Classics	28000
12.456	V	Strictly 60s	28000
12.456	V	The Alternative	28000
12.456	V	Total Hits	28000
12.456	V	Total Hits Italy	28000
12.456	V	Total Hits Nordi	28000
12.456	V	Urban	28000
12.456	V	VH1 Classic	28000
12.456	V	World Carnival	28000
12.456	V	Xmas & Kids	28000
12.476	H	Eurosport	27800
12.476	H	Eurosport 2	27800
12.476	H	TV-biljett 1	27800
12.476	H	TV-biljett 2	27800
12.476	H	TV-biljett 3	27800
12.476	H	TV4 Guld	27800
12.476	H	TV4 Komedi	27800

Freq GHz	Pol	Channel Name	Symbol rate

TV Digital
Radio Digital
TV Digital Crypt
Radio Digital Crypt
TV High Definition
TV High Definition Crypt

SatcoDX World Statistics

Alexandru Porosanu
TELE-satellite
Statistics Center
Romania

Encryption Worldwide

Encryption	Dec 2007	Nov 2008	Dec 2008	2008/2007
POVU	934	841	888	-4.93%
VGRD	1188	728	806	-32.15%
NAGV	1547	805	791	-48.87%
IRDT	968	509	525	-45.76%
MLT2	287	287	287	0.00%
VICS	385	256	237	-38.44%
MGRD	588	211	192	-67.35%
CONX	465	221	188	-59.57%
BCNV	302	176	176	-41.72%
IRVG	178	174	174	-2.25%
CRYW	217	179	157	-27.65%
MDS_	64	63	63	-1.56%
BISS	92	62	58	-36.96%
VIMG	95	45	45	-52.63%
VC2+	54	44	44	-18.52%
IRMG	49	24	24	-51.02%
MGVC	110	24	24	-78.18%
MGCW	33	24	24	-27.27%
PVU+	23	23	23	0.00%
BCRT	38	17	14	-63.16%
NTL_	7	9	9	28.57%
IRCW	11	9	9	-18.18%
NDS_	6	6	6	0.00%
RAS_	8	6	6	-25.00%
VCIR	7	5	5	-28.57%
IRDETO		13	4	Inf
PVNV	3	3	3	0.00%
VISK	3	3	3	0.00%
WGNR	3	3	3	0.00%
COCN	6	3	3	-50.00%
IRNV	4	3	3	-25.00%
CONV	2	2	2	0.00%
KEYF	2	2	2	0.00%
EBU (BISS-E)		1	1	Inf
NTL		1	1	Inf
DRMC	1	1	1	0.00%
CWVA	3	1	1	-66.67%
CODI	2	1	1	-50.00%
NTL2	1	1	1	0.00%

Top 40 Video PIDs Worldwide

Video PID	Dec 2007	Nov 2008	Dec 2008	2008/2007
512	349	343	372	6.59%
513	320	321	322	0.62%
308	418	304	301	-27.99%
1160	288	281	270	-6.25%
33	258	247	244	-5.43%
514	270	257	238	-11.85%
516	187	229	235	25.67%
515	185	214	216	16.76%
4130	245	203	202	-17.55%
518	153	180	178	16.34%
517	146	172	172	17.81%
1260	202	162	161	-20.30%
519	141	159	157	11.35%
163	168	154	157	-6.55%
160	142	142	141	-0.70%
161	140	140	140	0.00%
520	120	136	136	13.33%
521	126	142	136	7.94%
1360	155	128	133	-14.19%
5922	166	125	124	-25.30%
162	122	120	122	0.00%
165	108	113	119	10.19%
4194	171	120	114	-33.33%
101	101	97	110	8.91%
1760	169	108	109	-35.50%
164	103	106	107	3.88%
1460	124	102	106	-14.52%
4642	135	106	103	-23.70%
170	84	85	102	21.43%
522	73	101	101	38.36%
4386	138	105	101	-26.81%

Top 40 Audio PIDs Worldwide

Audio PID	Dec 2007	Nov 2008	Dec 2008	2008/2007
256	449	336	339	-24.50%
1120	272	265	256	-5.88%
4131	225	185	186	-17.33%
100	153	168	174	13.73%
660	154	174	173	12.34%
650	149	165	168	12.75%
640	117	127	150	28.21%
1220	178	149	148	-16.85%
36	146	142	141	-3.42%
80	136	133	133	-2.21%
34	142	132	133	-6.34%
84	131	120	124	-5.34%
1320	135	119	123	-8.89%
700	98	119	122	24.49%
5923	153	117	116	-24.18%
88	113	112	115	1.77%
104	104	111	113	8.65%
96	101	104	109	7.92%
4195	172	115	109	-36.63%
116	81	109	107	32.10%
92	101	102	107	5.94%
670	151	107	107	-29.14%
680	97	105	106	9.28%
108	97	94	99	2.06%
102	96	86	98	2.08%
4643	122	98	97	-20.49%
4387	127	100	97	-23.62%
1420	109	93	96	-11.93%
112	98	102	95	-3.06%
6179	103	92	93	-9.71%
258	143	91	89	-37.76%
4899	126	90	89	-29.37%
690	77	87	88	14.29%
202	66	80	88	33.33%
400	106	90	88	-16.98%

Transmission Types Worldwide

Type	Dec 2007	Nov 2008	Dec 2008	2008/2007
TV-DIG-CRYPT	10729	11149	11448	6.70%
TV-DIG	7656	7121	7131	-6.86%
R-DIG	4216	3961	4082	-3.18%
DATA	2083	2152	2161	3.74%
R-DIG-CRYPT	1472	1263	1304	-11.41%
TV-SD-CRYPT	143	448	438	206.29%
TV-HD-CRYPT	208	256	356	71.15%
TV-ANA	129	100	100	-22.48%
TV-SD	55	91	99	80.00%
TV-HD	60	83	67	11.67%
R-ANA	64	47	47	-26.56%
TV-ANA-CRYPT	57	45	45	-21.05%

Transponder Polarization Worldwide

Polarization	Dec 2007	Nov 2008	Dec 2008	2008/2007
V	11520	11827	11875	3.08%
H	11569	11291	11757	1.63%
R	2273	2087	2166	-4.71%
L	1584	1500	1477	-6.76%

Top 100 Ku band Frequencies Worldwide

Frequency	Dec 2007	Nov 2008	Dec 2008	2008/2007
12.226	184	185	184	0.00%
12.149	147	167	177	20.41%
11.823	71	163	176	147.89%
12.399	162	158	160	-1.23%
11.785	84	153	152	80.95%
12.355	96	151	151	57.29%
11.804	41	154	151	268.29%
11.938	92	129	139	51.09%
11.747	42	135	136	223.81%
12.302	36	95	135	275.00%
12.092	86	122	127	47.67%
12.322	96	99	126	31.25%
12.341	113	125	122	7.96%
12.418	91	117	121	32.97%
11.766	77	118	119	54.55%
12.661	64	120	118	84.38%
11.996	68	116	116	70.59%
12.523	95	112	115	21.05%
12.647	90	110	111	23.33%
12.643	70	107	109	55.71%
11.919	50	101	107	114.00%
12.628	106	106	106	0.00%
12.282	132	101	101	-23.48%
12.428	118	100	99	-16.10%
12.407	98	62	98	0.00%
12.265	16	97	97	506.25%
12.688	75	100	97	29.33%
12.253	72	96	96	33.33%
12.053	50	94	95	90.00%
12.015	40	91	95	137.50%
10.970	69	61	95	37.68%
12.224	79	96	95	20.25%
12.726	18	90	94	422.22%
11.843	79	92	93	17.72%
12.360	72	90	91	26.39%
11.836	62	87	90	45.16%
12.207	199	101	90	-54.77%
12.303	127	100	89	-29.92%
12.012	101	91	89	-11.88%
11.727	92	98	87	-5.43%
12.284	34	86	86	152.94%
11.283	77	65	86	11.69%
12.268	88	87	86	-2.27%
11.900	48	83	85	77.08%
11.862	32	84	84	162.50%
12.638	45	83	83	84.44%
12.516	78	83	83	6.41%
11.778	12	83	83	591.67%
11.635	68	81	82	20.59%
12.169	68	81	81	19.12%
12.476	71	94	80	12.68%
12.603	81	83	79	-2.47%
12.472	90	78	79	-12.22%
12.239	50	78	78	56.00%
12.574	219	76	78	-64.38%
12.311	101	70	76	-24.75%
12.632	72	73	75	4.17%
12.297	75	74	75	0.00%
12.545	88	73	75	-14.77%
12.501	70	74	74	5.71%
12.130	30	74	74	146.67%
12.380	98	73	73	-25.51%
12.414	109	88	73	-33.03%
11.170	58	49	72	24.14%
12.608	14	73	72	414.29%
11.604	64	71	72	12.50%
12.326	154	72	72	-53.25%
11.617	68	68	71	4.41%
12.604	182	71	70	-61.54%
12.034	29	76	69	137.93%
12.565	55	66	69	25.45%
11.596	31	60	68	119.35%
11.010	82	22	67	-18.29%
12.563	40	67	67	67.50%
12.607	45	67	66	46.67%
12.246	165	64	65	-60.61%
11.623	46	61	65	41.30%
12.370	94	69	65	-30.85%
12.723		64	64	Inf
11.554	25	65	64	156.00%
12.456	88	83	64	-27.27%
12.577	28	65	64	128.57%
12.644		56	63	Inf
12.384	82	63	63	-23.17%
12.443	111	68	62	-44.14%
11.642	76	53	62	-18.42%
12.581	24	50	62	158.33%
10.972	64	62	61	-4.69%
11.050	56	10	61	8.93%

Top 40 Symbol Rate Usage Worldwide

Symbol Rate	Dec 2007	Nov 2008	Dec 2008	2008/2007
27500	8963	9106	9306	3.83%
30000	2260	2450	2717	20.22%
20000	2801	2491	2451	-12.50%
22000	1276	1087	1036	-18.81%
28000	538	509	508	-5.58%
19510	446	456	456	2.24%
21096	410	410	410	0.00%
22500	71	379	396	457.75%
29270	276	286	286	3.62%
27800	267	289	277	3.75%
28500	215	276	276	28.37%
29950	193	238	238	23.32%
26000	127	212	201	58.27%
24500	130	210	196	50.77%
27684	175	175	175	0.00%
26480	76	113	141	85.53%
21300		106	106	Inf
30800	106	104	104	-1.89%
18000	7		100	1328.57%
26470	107	109	100	-6.54%
22425	83	93	93	12.05%
27690	62	83	92	48.39%
3428	32	92	92	187.50%
28800	51	89	90	76.47%
40700	25	86	89	256.00%
33483	19	89	89	368.42%
26667	136	85	86	-36.76%
27489		85	85	Inf
20600	81	82	81	0.00%
25000	48	48	78	62.50%
29000	61	59	74	21.31%
26652	29	64	74	155.17%
28100	71	76	72	1.41%
25600	70	70	70	0.00%
28700	25	70	70	180.00%
28125	94	67	67	-28.72%
24440	284	66	63	-77.82%
26657	30	62	63	110.00%
3255	46	65	63	36.96%

Top 80 C band Frequencies Worldwide

Frequency	Dec 2007	Nov 2008	Dec 2008	2008/2007
4.000	128	117	114	-10.94%
4.060	193	103	103	-46.63%
4.175	70	71	101	44.29%
4.040	94	89	92	-2.13%
4.080	83	93	90	8.43%
4.055	113	63	90	-20.35%
4.180	47	71	72	53.19%
4.140	55	64	64	16.36%
4.100	47	60	63	34.04%
4.120	70	62	62	-11.43%
4.020	79	59	59	-25.32%
4.160	51	40	40	-21.57%
4.025	23	48	34	47.83%
4.071	2	33	34	1600.00%
4.179	23	32	32	39.13%
4.083	9	32	32	255.56%
4.177		22	31	Inf
4.106	29	29	29	0.00%
4.147	24	25	25	4.17%
4.067	22	22	22	0.00%
4.004		13	20	Inf
4.124	12	18	18	50.00%
4.151	17	17	17	0.00%
4.185	35	17	17	-51.43%
4.043	19	17	17	-10.53%
4.087	17	16	17	0.00%
4.041	17	17	17	0.00%
4.064	17	16	16	-5.88%
4.125	10	3	14	40.00%
4.005	18	20	14	-22.22%
4.113	8	8	13	62.50%
4.062	17	13	13	-23.53%
4.084	34	2	12	-64.71%
4.143	9	11	11	22.22%
4.149	4	10	11	175.00%
4.107	7	9	9	28.57%
4.168	9	9	9	0.00%
4.192	8	8	8	0.00%
4.110	12	8	8	-33.33%
4.189	4	8	8	100.00%
4.184	1	8	8	700.00%
4.159		8	8	Inf
4.157	7	7	7	0.00%
4.091	6	7	7	16.67%
4.021	14	7	7	-50.00%
4.034	8	7	7	-12.50%
4.092	8	7	7	-12.50%
4.118	5	6	6	20.00%
4.065	5	6	6	20.00%
4.042	9	5	6	-33.33%
4.172	6	6	6	0.00%
4.054	5	5	6	20.00%
4.132	3	5	6	100.00%
4.130	4	6	6	50.00%
4.114	2	7	6	200.00%
4.166	7	6	6	-14.29%
4.126	5	6	6	20.00%
4.170	6	5	6	0.00%
4.137	4	6	6	50.00%
4.012	2	2	5	150.00%
4.097		4	5	Inf
4.133	3	5	5	66.67%
4.010	5	6	5	0.00%
4.105	8	3	5	-37.50%
4.031	1	3	5	400.00%
4.053	6	1	5	-16.67%
4.059	4	5	5	25.00%
4.158	7	5	5	-28.57%
4.045	7	5	5	-28.57%
4.075	9	5	5	-44.44%

Top 80 TV Channels per Coverage Zones

Coverage code	Dec 2007	Nov 2008	Dec 2008	2008/2007
HOT008KB	720	597	562	-21.94%
NIM001KB	861	459	463	-46.23%
HOT07AKE	279	424	443	58.78%
HOT006KB	418	392	395	-5.50%
ECH007KB	345	345	345	0.00%
AST01HKU	541	342	343	-36.60%
INT009CA	277	277	277	0.00%
ECH003KB	425	268	260	-38.82%
ASI03SCB	252	235	247	-1.98%
MEA003KI	116	273	246	112.07%
BADR04KB	218	229	229	5.05%
INT03RAM	217	218	218	0.46%
AST1KRKU	255	232	215	-15.69%
HIS01DKE	165	198	211	27.88%
AST01GKU	325	209	210	-35.38%
GXY025KB	224	214	206	-8.04%
NIM002KB	48	196	202	320.83%
HIS01CKS	242	206	195	-19.42%
NSS806CH	227	189	189	-16.74%
INS04BKB	132	188	188	42.42%
AST03AKU	116	183	184	58.62%
NIL102KB	234	183	183	-21.79%
INS04AKB	170		179	5.29%
SIR004NO		189	179	Inf
OPT0D2KA		146	160	Inf
NSS006IN	139	138	156	12.23%
INT10023	114	148	148	29.82%
HEL002F1	174	153	144	-17.24%
TEL010CG	121	85	139	14.88%
CHI06BCB	125	140	135	8.00%
ECH001KB	134	134	134	0.00%
AST02DKB	135	127	131	-2.96%
EUB001KF	181	117	130	-28.18%
EUB002FB		132	127	Inf
NIL101KB	112	127	127	13.39%
THO002KU	110	129	127	15.45%
THO003KU	131	156	127	-3.05%
SIR004EU		122	124	Inf
EUTAB4MK	87	124	124	42.53%
EUTW3ABB	115	129	122	6.09%
JCS003KJ	122	122	122	0.00%
KOR003KB	36	122	122	238.89%
EUB009KW	85	126	120	41.18%
INS04ACB	78	110	116	48.72%
EUB001S1	168	105	112	-33.33%
INT007SA	124	40	111	-10.48%
INT010CV	92	101	108	17.39%
GXY015CB	108	108	108	0.00%
BRA0B1CN	106	106	106	0.00%
AST01LKU		113	104	Inf
INTAM6KB	66	104	104	57.58%
OPT0C1NA	100	100	103	3.00%
INT008KA	49	101	101	106.12%
THA005CR	88	97	101	14.77%
AMO002ME	99	99	99	0.00%
EUT0W4EU	141	98	98	-30.50%
AMC011CB	95	95	95	0.00%
JCS04AKJ	93	93	93	0.00%
AMO001EA	91	91	91	0.00%
BADR03KB	67	91	91	35.82%
ASI004CB		94	91	Inf
AMO001EU	82	90	90	9.76%
BRA0B3CN	89	89	89	0.00%
AST02ASO	88	83	85	-3.41%
TUR02AKW	320	84	83	-74.06%
AMC004CA	82	82	82	0.00%
GXY10RCB	87	81	81	-6.90%

Top 40 Radio Channels Coverage Zones

Coverage code	Dec 2007	Nov 2008	Dec 2008	2008/2007
HOT008KB	331	276	255	-22.96%
CHI06BCB	101	108	181	79.21%
AST01HKU	391	176	174	-55.50%
HOT006KB	155	166	168	8.39%
GXY025KB	164	135	131	-20.12%
AST03AKU	37	130	130	251.35%
GXY10RCB	116	115	115	-0.86%
HOT07AKE	49	103	105	114.29%
JCS003KJ	102	102	102	0.00%
APS005K2	29	57	97	234.48%
OPT0D2KA		77	90	Inf
NIM001KB	162	85	86	-46.91%
INT007SA	106	52	85	-19.81%
TEL010KB	2	81	81	3950.00%
INT010CV	73	75	75	2.74%
AST02ANO	48	75	75	56.25%
AST01LKU		74	74	Inf
EUTW3ABA	82	73	72	-12.20%
TEL010CG	58	62	65	12.07%
ECH007KB	62	62	62	0.00%
NIL101KB	58	60	60	3.45%
BADR04KB	86	60	60	-30.23%
TUR02AKW	318	62	60	-81.13%
INT009CA	55	55	55	0.00%
OPT0C1NB	51	50	50	-1.96%
NSS703GL	53	24	48	-9.43%
THO003KU	42	45	47	11.90%
EUB002FB		45	46	Inf
HEL002F1	46	44	45	-2.17%
JCS003CA	42	42	42	0.00%
HIS01CKS	41	38	42	2.44%
EUTAB3SB	24	41	41	70.83%
AST02BNO	42	37	39	-7.14%
EXPAM2CR	24	38	38	58.33%
GXY04RKV	38	38	38	0.00%

Edited by
Alexander Wiese

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TELE-satellite Magazine
Issue 01/1988

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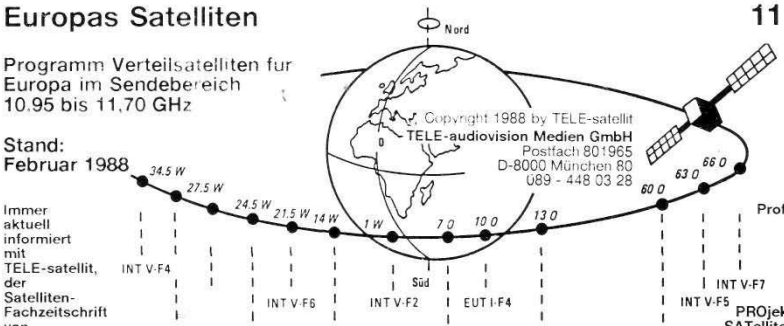
Satelliten-Empfang

Nur in TELE satellit: die aktuellsten, nachgeprüften Satelliten-Tabellen für Europa

Europas Satelliten — 11 GHz

Programm Verteilsatelliten für Europa im Sendebereich 10,95 bis 11,70 GHz

Stand: Februar 1988



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Professionelle Kunden werden direkt beraten von PROSAT PROjektberatung SATellitenempfang Karlsruhe 0721 - 40 25 62

Fernsehen über Satellit — 11 GHz

Satellit	Position Grad	Programm	Sendeland	Sprache	Frequenz GHz	Polarisation	Beam	Bildnorm	Videotext	Tonfr. MHz	Scrambl.	Empfang	Leistung dBW	Zeiten h	Bemerkungen
INTELSAT VA-F11	27.5 W	MTV Europe	USA/Groß	englisch	10.98	Horiz	West	PAL/Neg.	-	6.60	-	Frei	46	24	Videoclips
										7.02 & 7.20		(WEGENER-System)			Begleitton Stereo
		Canal 10	Großbrit.	spanisch	10.98	Vertikal	Ost	PAL/Neg.	-	6.60 & 7.20	-	-	46	24	Spielfilme
		Children's Channel / Premium Len (Time Sharing)	Großbrit	englisch	11.02	Horiz	West	PAL/Neg.	ja	6.60	-	Pay-TV	46	24	Kinderpr. / Spielfilme
										7.02 & 7.20		(WEGENER-System)			Begleitton Stereo
		Arts Channel / Lifestyle / Screensport (Time Sharing)	Großbrit.	englisch	11.14	Horiz	West	PAL/Neg.	* -	6.60	-	Pay-TV	46	24	Kultur / Hausfrauen / Sport
										7.02 & 7.20		(WEGENER-System)			Begleitton Stereo
		CNN International	USA/Groß	englisch	11.15	Vertikal	Ost	PAL/Neg.	-	6.60	-	Pay-TV	46	24	Nachrichten + Information
										7.38					Datenübertragung
		BBC 1/2	Großbrit	englisch	11.18	Horiz	West	SAT-TEL	ja	6.60	ja	Pay-TV	46	24	Unterhaltung + Kultur
		EBU-PVS	-	-	11.47	Vertikal	West	PAL/Neg.	-	6.60	-	Frei	46	24	Videoübertragungen
		Anglovision	USA/Groß	englisch	11.51	Vertikal	Ost	PAL/Neg.	-	6.60	-	Pay-TV	46	-	Nachrichten - in Vorbereitung
		TV3 / Satellite Information Service (Time Sharing)	GB/Schw.	englisch	11.59	Horiz	West	B-MAC	-	-	ja	cl.circ.	46	24	Unterhaltung / Pferderennen
INTELSAT VA-F10	24.5 W	(derzeit kein TV-Programm)													
INTELSAT V-F6	21.5 W	Telespazio	Italien	italien	10.98	Vertikal	West	PAL/Neg.	-	6.65	-	-	46	-	nur Testsendungen
		Telespazio	Italien	italien	11.13	Vertikal	West	PAL/Neg.	-	6.65	-	-	46	-	nur Testsendungen
		Telespazio	Italien	italien	11.17	Vertikal	West	PAL/Neg.	-	6.65	-	-	46	-	nur Testsendungen
GORIZONT 12	14 West	TV Test	Sowjetun.	russisch	11.51	Linksz.	Ost	SECAM/N - P	-	7.00	-	-	43	-	nur Testsendungen
INTELSAT V-F2	1 West	Nrrjuss	Norwegen	norweg.	11.01	Horiz	West	PAL/Neg.	-	6.60	-	Pay-TV	44	-	nur Testsendungen
		Kanal 1	Schweden	schwed.	11.13	Horiz	West	C-MAC	ja	-	-	Frei	44	24	Unterhaltung + Kultur
		STV2	Schweden	schwed.	11.17	Horiz	West	C-MAC	ja	-	-	Frei	44	24	Unterhaltung + Kultur
		TV1	Israel	hebräisch	11.19	Vertikal	Ost	PAL/Neg.	-	6.60	-	Frei	43	24	nur Testsendungen - DX
		TV2	Israel	hebräisch	11.59	Vertikal	Ost	PAL/Neg.	-	6.60	-	Frei	43	24	nur Testsendungen - DX
		TV Test			11.69	Horiz	West	PAL/Neg.	-	6.60	-	-	44	-	nur Testsendungen
		New World Chan.	Norwegen	engl./norweg.	11.47	Horiz	West	PAL/Neg.	-	6.60	-	Frei	44	2	Religiöse Progr.
EUTELSAT I-F2	7 Ost	Worldnet	USA	englisch	11.59	Horiz	Ost	SECAM/N	-	6.60	-	Frei	45	8	Information
EUTELSAT I-F4	10 Ost	NRK	Norwegen	norwegisch	11.20	Vertikal	West	C-MAC	ja	-	-	Frei	45	24	Unterhaltung + Kultur
		TVE I	Spanien	spanisch	11.65	Vertikal	West	PAL/Neg.	ja	6.60	-	Frei	45	24	Unterhaltung + Kultur
EUTELSAT I-F1	13 Ost	Teledub	Schweiz	deutsch	10.98	Vertikal	West	PAL/Neg.	-	6.50	-	Pay-TV	45	24	Spielfilme
										5.50					(Schaltsignal Kabelscrambler)
		RAI UNO	Italien	italien	11.00	Horiz.	West	PAL/Neg.	ja	6.60	-	Frei	45	24	Unterhaltung + Kultur
		RTL plus	Luxemburg	deutsch	11.08	Vertikal	Ost	PAL/Neg.	-	6.65	-	Frei	45	24	Unterhaltung
		Filmnet	Belgien	engl./holl.	11.14	Vertikal	West	PAL/Pos	ja	6.65	ja	Pay-TV	45	24	Spielfilme
										7.02		(PANDA-System)			Begleiton schwedisch
										7.15 & 7.61					(Schaltsignal Kabelscrambler)
		3SAT	BRD	deutsch	11.17	Horiz.	West	PAL/Neg.	-	6.60	-	-	45	-	Unterhaltung
		TV5	Frankreich	französisch	11.47	Horiz	West	PAL/Neg.	-	6.65	-	Frei	45	8	Unterhaltung + Kultur
		Worldnet	USA	englisch	11.48	Horiz	West	PAL/Neg.	-	6.65	-	Frei	45	8	Information
		SAT1	BRD	deutsch	11.50	Vertikal	West	PAL/Neg.	-	6.65	-	Frei	45	24	Unterhaltung
		Sky Channel	Großbrit.	englisch	11.65	Horiz	West	PAL/Neg.	ja	6.65	-	Frei	45	24	Unterhaltung
										7.02 & 7.20		(WEGENER-System)			Begleiton Stereo
		Super Channel	Grobrit.	englisch	11.67	Vertikal	West	PAL/Neg.	ja	6.65	-	Frei	45	24	Unterhaltung + Kultur
										7.02 & 7.20		(WEGENER-System)			Begleiton Stereo
INTELSAT VA-F12	60 Ost	3SAT	BRD	deutsch	10.97	Horiz	West	PAL/Neg.	-	6.65	-	Frei	46	24	Unterhaltung
		AFN-TV	USA/BRD	englisch	10.99	Vertikal	Ost	B-MAC	-	-	ja	cl.circ.	46	24	Unterhaltung
		West 3	BRD	deutsch	11.01	Horiz.	West	PAL/Neg.	ja	6.65	-	Frei	46	24	Unterhaltung
		Tele 5	BRD	deutsch	11.13	Horiz	West	PAL/Neg.	-	6.65	-	Frei	46	24	Videoclips
		Bayerisches Fern.	BRD	deutsch	11.17	Horiz	West	PAL/Neg.	ja	6.65	-	Frei	46	24	Unterhaltung
		Eins Plus	BRD	deutsch	11.55	Horiz.	West	PAL/Neg.	-	6.65	-	Frei	46	24	Unterhaltung
		eureka tv	BRD	deutsch	11.60	Horiz	West	PAL/Neg.	-	6.65	-	Frei	46	24	Information
INTELSAT V-F5	63 Ost	IRIB TV2	Iran	farsi	10.99	Vertikal	West	PAL/Neg.	-	6.80	-	Frei	46	24	nur Testsendungen - DX
		IRIB TV1	Iran	farsi	11.15	Vertikal	West	PAL/Neg.	-	6.80	-	Frei	46	24	Kultur - DX
INTELSAT V-F7	66 Ost	AFRTS-E2	USA	englisch	11.47	Horiz.	West	NTSC/Neg.	ja	6.80	-	cl.circ	43	24	Unterhaltung - DX
		TRT 1	Türkei	türkisch	11.65	Horiz.	West	PAL/Neg.	-	6.80	-	Frei	43	24	Unterhaltung - DX
		TRT 2	Türkei	türkisch	11.68	Horiz.	West	PAL/Neg.	-	6.80	-	Frei	43	24	Unterhaltung - Testsendung - DX

Zusammengestellt nach Empfangsmessungen von PROSAT PROjektberatung SATellitenempfang. © 1988 by PROSAT
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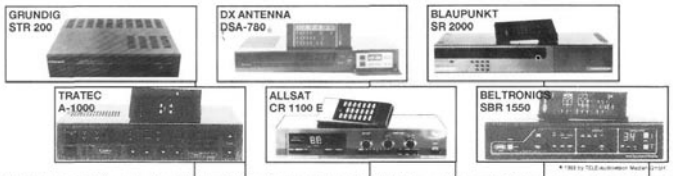
Radio über Satellit — 11 GHz

Satellit	Position Grad	Programm	Sendeland	Sprache	Frequenz GHz	Polarisat.	Beam	Tonnorm	Tonfrequenz MHz	Scram	Empfang	Leistung dBW	Zeiten h	Bemerkungen
INTELSAT VA-F11	27.5 W	BBC Worldserv.	Großbrit.	englisch	11.18	Horiz	West	WEGENER	7.02	-	Frei	45	24	Mono // Kurzwelle
		BBC Worldserv.	Großbrit.	diverse	11.18	Horiz.	West	WEGENER	7.20	-	Frei	45	24	Mono - Auslandsprogramme
INTELSAT V-F2	1 West	KOL Israel	Israel	hebräisch	11.19	Vertikal	Ost	Standard	7.30	-	Frei	45	24	Testsendungen
EUTELSAT I-F4	10 Ost	NRK P1	Norwegen	norweg.	11.20	Vertikal	West	Digital/MAC	-	-	Frei	45	24	Inlandsprogramm Stereo
		NRK P2	Norwegen	norweg.	11.20	Vertikal	West	Digital/MAC	-	-	Frei	45	24	Inlandsprogramm Stereo
EUTELSAT I-F1	13 Ost	Radio Luxemburg	Luxemburg	deutsch	11.08	Vertikal	Ost	WEGENER	7.02 & 7.20	-	Frei	45	24	Stereo
		Radio Toon	Niederl.	englisch/hol.	11.14	Vertikal	West	WEGENER	7.56 & 7.74	-	Frei	45	24	Stereo
		Cable One	Niederl.	englisch	11.17	Horizontal	West	WEGENER	7.92 & 8.10	-	Frei	45	24	Testsendungen
		Voice of America	USA	englisch	11.50	Vertikal	West	WEGENER	7.02 & 7.20	-	Frei	45	24	Stereo
		BBC Worldser.	Großbrit.	englisch	11.67	Vertikal	West	WEGENER	7.38	-	Frei	45	24	Mono // Kurzwelle
		BBC Worldser.	Großbrit.	diverse	11.67	Vertikal	West	WEGENER	7.56	-	Frei	45	24	Mono - Auslandsprogramme
		Deutschlandfunk	BRD	deutsch	11.01	Horiz.	West	WEGENER	7.02 & 7.20	-	Frei	46	24	Stereo
		Radio Media	BRD	deutsch	11.17	Horizontal	West	WEGENER	7.02 & 7.20	-	Frei	46	24	Stereo
		Digital Test	BRD	deutsch	11.45	Vertikal	Ost	Digital	-	-	Frei	44	24	div. Privatradios
		IRIB Radio 2	Iran	farsi	10.99	Vertikal	West	Standard	6.18	-	Frei	46	24	Testsendungen - DX
		IRIB Radio 1	Iran	farsi	11.17	Vertikal	West	Standard	6.18	-	Frei	46	24	Inlandsprogramm - DX

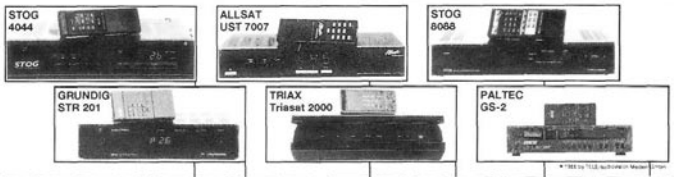
Erläuterungen: «DX» Empfang = Mitteleuropa nur mit erhöhtem Aufwand möglich; «cl.circ.» = closed circuit; - Empfang für die Allgemeinheit nicht freigegeben

Satelliten Receiver



Hersteller/Importeur	GRUNDIG STR 200	TRATEC A-1000	DX ANTENNA DSA-780	ALLSAT CR 1100 E	BLAUPUNKT SR 2000	BELTRONICS SBR 1550
Gerätebezeichnung	A 600 019	A 676 022 US	A 676 011 US	A 676 007 US	A 607 542 U	A 676 002 U
ZZF-Nummer	-	-	-	Frequenzwahl	-	Auf/Ab
Fernbedienungsfunktionen	ja	ja + Fein	ja	ja	ja	-
Kanalwahl	-	ja	ja	ja	-	ja
Lautstärke	-	ja	ja	ja	-	ja
Mute-Taste	-	ja	ja	ja	-	ja
Tonfrequenzeinstellung	-	-	-	-	-	ja
Skew (Polarizer	-	-	-	-	-	ja
Scanning (Frequenz)	ja	ja	ja (mit Empfang)	man. + autom.	ja	ja
Programmdurchlauf	ja	ja	80	ja	40	manuell
Drehelnricht. (Actuator)	frei belegbar	frei belegbar	fest belegbar	frei belegbar	frei belegbar	-
Steuerung Videorecorder	ja	nein	nein	ja	ja	ja
Bereitschaftstaste	Relais eingebaut	ja	ja	ja (nachrüstbar)	Relais eingebaut	60 ÷ 20
Programmplätze	Zusatzgerät über Treppensp.	29	ja	LED-Kette	Zusatzgerät über Treppensp.	fest belegt
Belegung	-	frei belegbar	ja	-	LED + Display	ja
vorprogrammierte Speicher	Kanalziffern	nein	LED-Kette	Kanalziffern	-	Display
Polarisationsrelaisanschluß	von 00 bis 99	ja	-	von 01 bis 99	Kanalziffern	Kanalziffern
Polarizeranschluß	-	Zeiger	direkt	-	von 00 bis 99	von 00-60, 00-80
Drehelnrichtungsanschluß	ja	direkt	Empfangsfrequ.	Kanalziffern	-	ja
Feldstärkeinstrument	-	Block-ZF	-	von 01 bis 99	fest	fest
Feldstärke Meßausg. (AGC)	-	-	fest	-	-	ja
Frequenzanzeige	fest	fest	ja	-	ja	+ 18 Volt
Einheit	ja	sep.Ausgang	ja (Drahtbrücke)	+ 18 Volt	ja	programmierbar
Automatischer Scanner	ja	ja (Metallbrücke)	- 20 Volt	ja	ja	5 bis 8.5 MHz
AFC-Schalter	ja	- 15 Volt	ja	manuell	möglich	ja
Clamp Schalter	ja	ja	programmierbar	5 bis 8 MHz	50-75, J17	möglich
Fernspeisung schaltbar	-	programmierbar	5 bis 8.5 MHz	ja	F 75 Ohm	50-75, J17
Fernspeisespannung	+ 15 Volt	5 bis 8 MHz	möglich	50-75, J17	480 MHz	F 75 Ohm
Video-Invers-Schalter	-	nachrüstbar	50-75, J17	F 75 Ohm	2-stufig	70 MHz
Tonträgerfrequenz	programmierbar	möglich	F 75 Ohm	480 MHz	Cinch	2-stufig 22 + 27
Tonfrequenzbereich	6.5-6.65, 5.8	50, 75	130 MHz	2-stufig	D2-MAC	nicht geprüft
Stereoton, Zweiton	-	2 x BNC 75 Ohm	2-stufig	Cinch	-	BNC
Audio Schmalb. Empfang	ja	480 MHz	ja	nicht geprüft	-	eig. Buchse
Ton Deemph. (Entzerrung)	Kanalziffern	fest 27 MHz	BNC	Cinch	-	BNC
Block-ZF Eingang (1. ZF)	von 00 bis 99	ja	nicht geprüft	2 x Cinch	-	Cinch
2. Zwischenfrequenz	-	SCART	BNC	-	-	-
2. ZF Bandbreite	-	nicht geprüft	Cinch	-	-	-
Hub-Anpassung	-	BNC	-	-	-	-
Basisband Ausgang	-	nicht geprüft	-	-	-	-
MAC Deemphasis	-	BNC	-	-	-	-
Video Ausgang	-	Cinch	-	-	-	-
Audio Ausgang Mono	-	-	-	-	-	-
Audio Ausgang Stereo	-	-	-	-	-	-
Video/Audio Ausgang (AV)	-	-	-	-	-	-
SCART Ausgang	-	-	-	-	-	-
UHF Modulationsausgang	-	-	-	-	-	-
Antennendurchschleifung	-	-	-	-	-	-
Testbildgenerator	-	-	-	-	-	-
ASTRA kompatibel	ja	IEC	F	IEC	2 x SCART	IEC
DBS kompatibel	ja	ja	ja	ja	IEC	ja
Bedienungsanleitung	kompatibel	kompatibel	kompatibel	kompatibel	ja	60 Kanal
Testbericht abgedruckt in	mit MAC-Decod.	mit MAC-Decod.	mit MAC-Decod.	mit MAC-Decod.	kompatibel	mit MAC Decod.
TESTERGEBNIS	in deutsch + engl.	in englisch	in englisch	deutsch + engl.	mit MAC-Decod.	deutsch + engl.
Empfindlichkeit	TELE-audiov. 36	TELE-audiov. 38	TELE-audiov. 39	TELE-audiov. 39	deutsch + engl.	TELE-satellit 41
Bildqualität	-	-	-	-	TELE-audiov. 40	-
Tonqualität Mono	sehr gut	gut	gut	gut	-	gut
Tonqualität Stereo/Zweiton	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut
AFC Wirkung	sehr gut	sehr gut	sehr gut	sehr gut	sehr wirkungsvoll	befriedigend
2. ZF Bandbreitenreduzier.	befriedigend	wirkungsvoll	wirkungsvoll	(manuell) wirkungsvoll	-	sehr gut
Bedienungskomfort	-	sehr gut	sehr gut	gut	gut	sehr wirkungsvoll
Kurzschlußtest Fernspeis.	gut	wirkungsvoll	wirkungsvoll	nicht geprüft	nicht geprüft	gut
Zustand nach Netzausfall	überstanden	sehr gut	sehr gut	Frequenz 1	Bereitschaft	nicht geprüft
Einsatzmöglichkeiten	Programm 1	überstanden	Programm 1	Heimgerät/DX	Heimgerät/DX	Frequenz 2
Bereitstellung des Testger.	universell/GA	Gedächt. verlor.	Heimgerät/DX	ALLSAT	BLAUPUNKT	Heimgerät
TELE-satellit Referenzem.	GRUNDIG	Heimgerät/DX	NEVELING	(nur komplett)	STOG	BELTRONICS
ce Preis	-	TRATEC	-	Allsat	-	-
Bezugsquellennachweis	DM 1000.-	für Torempfang	DM 1600.-	Albrecht Dürer 2	Blaupunkt	Roermonder Str.
	Grundig	DM 1200.-	Neveling	D-6720 Speyer	Rob.-Bosch 200	594
	Kurgartenstr. 37	Braun btv	Postfach 300703		D-3200 Hil-	
	D-8510 Fürth	Engel. Damm 99	D-4000 Düssel-		desheim	D-5100 Aachen
		D-3000 Han-	dorf 30			
		nover 1				

English Summary
Europe's 12 most commonly used satellite receivers. All have been tested. Ratings read »very good« (= sehr gut), »good« (= gut) and »fair« (= befriedigend). Rating categories include »Sensitivity« (= Empfindlichkeit), »Picture Quality« (= Bildqualität), »Sound Quality« Mono and Stereo - (Tonqualität) and »Usability« (= Bedienungskomfort). New receivers appearing on Europe's market and having some impact will be added with future tables.



Hersteller/Importeur	STOG 4044	GRUNDIG STR 201	ALLSAT UST 7007	TRIAX TRIASAT 2000	STOG 8088	PALTEC GS-2
Gerätebezeichnung	beantragt	A 600 132 V	A 676 148 V	-	A 676 035 U	beantragt
ZZF-Nummer	-	-	-	-	-	-
Fernbedienungsfunktionen	Auf/Ab	ja - FB 650 data	ja	ja + Fein	ja + Fein	Auf/Ab
Kanalwahl	-	nur über FB 650	-	-	-	-
Lautstärke	-	nur über FB 650	-	-	-	ja
Mute-Taste	-	-	-	-	-	ja
Tonfrequenzeinstellung	-	-	-	-	-	ja
Skew (Polarizer	-	-	-	-	-	ja
Scanning (Frequenz)	-	automatisch	ja	ja	ja	ja
Programmdurchlauf	ja	automatisch	ja	ja	ja	autom. + man.
Drehelnricht. (Actuator)	ja	ja	ja	ja	ja	-
Steuerung Videorecorder	ja	ja	ja	ja	ja	ja
Bereitschaftstaste	36	49	999	30	50	99
Programmplätze	frei belegbar	frei belegbar	frei belegbar	frei belegbar	frei belegbar	frei belegbar
Belegung	ja	ja	ja	nur Originalrel.	ja	ja
vorprogrammierte Speicher	ja, umsteckbar	Relais eingebaut	ja	nur Originalpol.	ja	ja, Puls
Polarisationsrelaisanschluß	2 Versionen	2 Versionen	-	nur Originaldreh.	-	nur Originaldreh.
Polarizeranschluß	-	über Matrix	-	-	-	Zeiger
Drehelnrichtungsanschluß	LED-Kette	Zeiger	direkt	-	im Bildschirm	ja
Feldstärkeinstrument	-	-	-	Kanalziffern	-	direkt
Feldstärke Meßausg. (AGC)	Kanalziffern	Kanalziffern	Block-ZF	von 00 bis 99	Block-ZF	Block-ZF
Frequenzanzeige	von 00 bis 99	von 00 bis 99	-	-	-	-
Einheit	-	-	-	-	-	elg. Buchse
Automatischer Scanner	fest	fest	-	-	-	-
AFC-Schalter	-	-	ja	+ 18 Volt	+ 15 Volt	+ 15 Volt
Clamp Schalter	ja	ja	- 18 V, -13/20 V	-	-	-
Fernspeisung schaltbar	+ 18 Volt	+ 15 Volt	-	programmierbar	programmierbar	programmierbar
Fernspeisespannung	ja	programmierbar	programmierbar	5.6 bis 8.5 MHz	5 bis 8.5 MHz	5-8.5 MHz
Video-Invers-Schalter	-	programmierbar	5 bis 8 MHz	ja	ja	-
Tonträgerfrequenz	programmierbar	5 bis 8 MHz	möglich	möglich	möglich	möglich
Tonfrequenzbereich	5 bis 8.5 MHz	ja	62, J17	50-75, J17	50-75, J17	50, J17
Stereoton, Zweiton	-	möglich	2 x IEC 75 Ohm	480 MHz	N 50 Ohm	F 75 Ohm
Audio Schmalb. Empfang	J17	62, J17	480 MHz	fest 27 MHz	480 MHz	70 MHz
Ton Deemph. (Entzerrung)	F 75 Ohm	2 x IEC 75 Ohm	2-stufig, 24 + 16	-	fest 27 MHz	2-stufig 22 + 27
Block-ZF Eingang (1. ZF)	480 MHz	480 MHz	-	nicht geprüft	nicht geprüft	nicht geprüft
2. Zwischenfrequenz	2-stufig	2-stufig, 24 + 16	ja	-	-	BNC
2. ZF Bandbreite	-	-	möglich	BNC	BNC	eig. Buchse
Hub-Anpassung	BNC	BNC	62, J17	MAC schaltbar	Cinch	BNC
Basisband Ausgang	nicht geprüft	D2-MAC schaltb.	2 x IEC 75 Ohm	-	-	Cinch
MAC Deemphasis	BNC	-	480 MHz	-	DIN	-
Video Ausgang	Cinch	-	fest 27 MHz	2 x SCART	2 x SCART	DIN-AV
Audio Ausgang Mono	-	DIN-AV	-	IEC	IEC	2 x SCART
Audio Ausgang Stereo	-	2 x SCART	nicht geprüft	ja	ja	IEC
Video/Audio Ausgang (AV)	-	IEC	BNC	nicht geprüft	nicht geprüft	ja
SCART Ausgang	-	ja	D2-MAC schaltb.	mit MAC-Decod.	mit MAC-Decod.	nicht geprüft
UHF Modulationsausgang	-	kompatibel	DIN-AV	deutsch + engl.	in dänisch	mit MAC-Decod.
Antennendurchschleifung	-	mit MAC-Decod.	2 x SCART	TELE-sat. 42/43	-	in englisch
Testbildgenerator	-	deutsch uk Spr.	IEC	-	nicht getestet	-
ASTRA kompatibel	ja	TELE-sat. 42/43	ja	sehr gut	nicht getestet	nicht getestet
DBS kompatibel	ja	-	kompatibel	sehr gut	nicht getestet	nicht getestet
Bedienungsanleitung	mit Qualitätseinb.	sehr gut	mit MAC-Decod.	sehr gut	nicht getestet	nicht getestet
Testbericht abgedruckt in	mit MAC-Decod.	sehr gut	deutsch + engl.	sehr gut	nicht getestet	nicht getestet
TESTERGEBNIS	in englisch	sehr gut	TELE-sat. 42/43	sehr gut	nicht getestet	nicht getestet
Empfindlichkeit	TELE-sat. 42/43	sehr gut	-	sehr gut	nicht getestet	nicht getestet
Bildqualität	-	sehr gut	sehr gut	gut	nicht getestet	letzte Programm
Tonqualität Mono	gut	sehr gut	sehr gut	-	nicht getestet	-
Tonqualität Stereo/Zweiton	sehr gut	sehr gut	sehr gut	gut	nicht getestet	Heimgerät
AFC Wirkung	unverksam	sehr wirkungsvoll	sehr gut	überstanden	nicht getestet	STOG
2. ZF Bandbreitenreduzier.	gut	gut	sehr wirkungsvoll	Programm 1	nicht getestet	-
Bedienungskomfort	überstanden	sehr gut	sehr gut	Heimgerät/DX	nicht getestet	DM 1800.-
Kurzschlußtest Fernspeis.	Bereitschaft	überstanden	überstanden	GRUNDIG	nicht getestet	STOG
Zustand nach Netzausfall	Heimgerät	Programm 1	Programm 1	für Bild und Ton	nicht getestet	Menzinger Str. 97
Einsatzmöglichkeiten	STOG	Heimgerät/DX	Heimgerät	DM 1300.-	Bereitschaft	D-8000
Bereitstellung des Testger.	(nur komplett)	GRUNDIG	ALLSAT	GRUNDIG	Heimgerät	München 50
TELE-satellit Referenzem.	STOG	Kurgartenstr. 37	Albrecht-Dürer 2	Kurgartenstr. 37	STOG	
ce Preis	Menzinger Str. 97	D-8510 Fürth	D-6720 Speyer	D-8510 Fürth	Menzinger Str. 97	
Bezugsquellennachweis	D-8000				D-8000	
	München 50				München 50	

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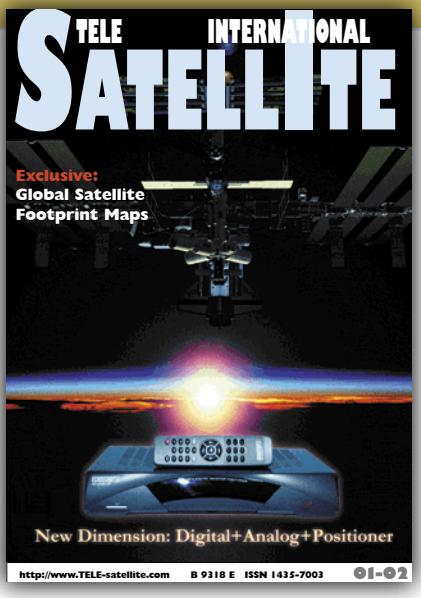
Edited by
Alexander Wiese

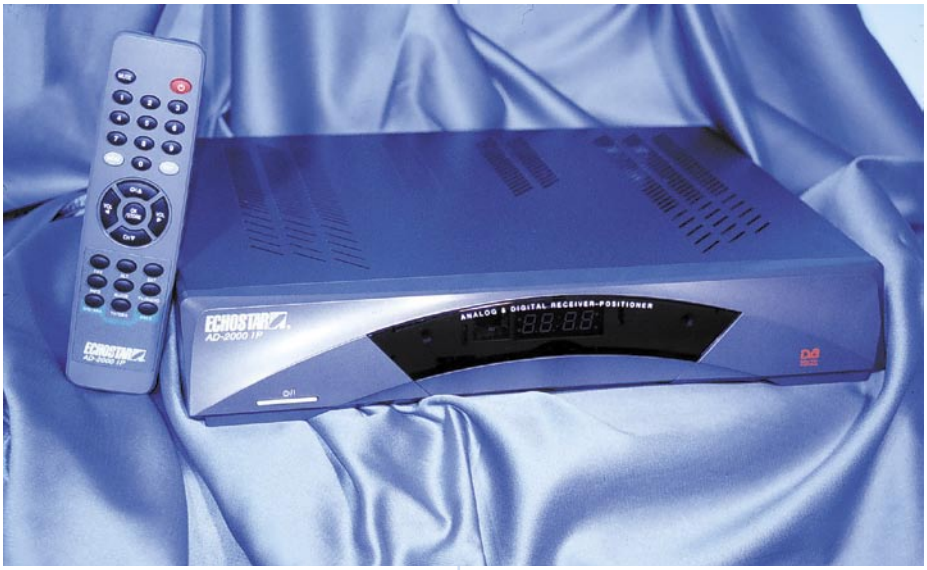
10 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 02/1999



Echostar AD-2000 IP

So far, we haven seen a reasonable amount of integrated analogue and digital receivers, one might call them universal receivers, and even with built-in positioners. But although the hardware often is comparable, the software controlling it is the most important issue. Whenever the software is of poor quality you can forget it. The box will crash, you cannot set it up it the way you like, etc. These and many more flaws can make a receiver almost unusable. With this in mind, we started to look at the Echostar AD-2000IP. For over two weeks we have tested it in our labs and it was with a lot of regret that we had to send it back.



Your first impression won't be that it is a superb receiver. It looks a little bit ordinary and does not have the high-tech looks Echostar's famous LT-8700 had. On the contrary, with only a four-digit display on the front you may not expect too much hi-tech in the box. But to start with, the display needs four figures because it can store up to 2.900 digital channels (1.500 for TV/1.400 for radio) plus 700 analogue ones. Its integrated positioner can cope with up to 50 satellite positions. Behind a coverlid there are two buttons for channel up and down and a card slot which may do its job in later versions. The receiver we tested did not have a conditional access interface.

Drake ESR 324 Earth Station Receiver

You don't know the ESR 324? Well, don't panic — it's not like you've missed the latest innovation in digital satellite technology. The ESR is a direct import from the U.S., a kind of 'first cry' of satellite reception technology.
I was actually bargain-hunting for a digital receiver to use in combination with Echostar's DISH digital package when I discovered the ESR in a small country town somewhere in Montana. The unit was built in 1984 and set me back twenty bucks. Of course I knew that I would hardly be able to use this relic with my existing satellite system, but I was simply curious to find out how a 14 year old receiver would handle present-day satellite services.
The first thing you notice about the ESR 324 is its weight.
Used to light-weight plastic boxes the ESR 324's robust metal chassis has survived 14 years of doubtlessly heavy usage without any flaws whatsoever. The 110 volt power unit contributed its share to the total weight of the unit.
All control buttons are on the unit's front panel since there is no remote control available for the ESR 324 (after all, I'm travelling down the time tunnel all the way to 1984). Next to the main power switch there is a scan button and two rotary switches to tune in the selected channel. It is not possible to enter a frequency directly (contrary to European products), neither is there such a thing as a program-store menu. In this respect not much has changed since the 1950s, as a matter of fact. Some may remember the rotary switches on television sets at the onset of the television age: you simple turned the knob into one direction or the other until a channel appeared on the screen. Some budget TV sets in North America still work that way even though Scan Up and Scan Down buttons on the remote control have long replaced rotary switches.

American satellites broadcast their signals according to a standardised channel grid. There are twelve channels each on the vertical and horizontal polarisation plane. Most American satellite receivers still come with a 500 MHz tuner used to scan the C-band between 3.7 and 4.2 GHz and the Ku-band between 11.7 and 12.2 GHz. That way only one control knob on the Drake ESR 324 is enough to use all the bandwidth available on U.S. satellites. The selected transponder is displayed on the front panel and a fine-tuning switch covers all the range between two channels. An additional switch is used to control the mechanic polariser. However a per-

manent polarisation can also be selected with the polarisation switch.

Once the channel is selected and tuned we have to adjust the audio parameters. With the flip of switch the standard frequency of 6.80 MHz can be selected, while a rotary switch allows the scanning of a range that must extend from 2 to 10 MHz (my estimate). Needless to say that that stereo sound was not a standard feature in 1984. On the back of the unit there is a switch that is used to choose either the C or the Ku band.

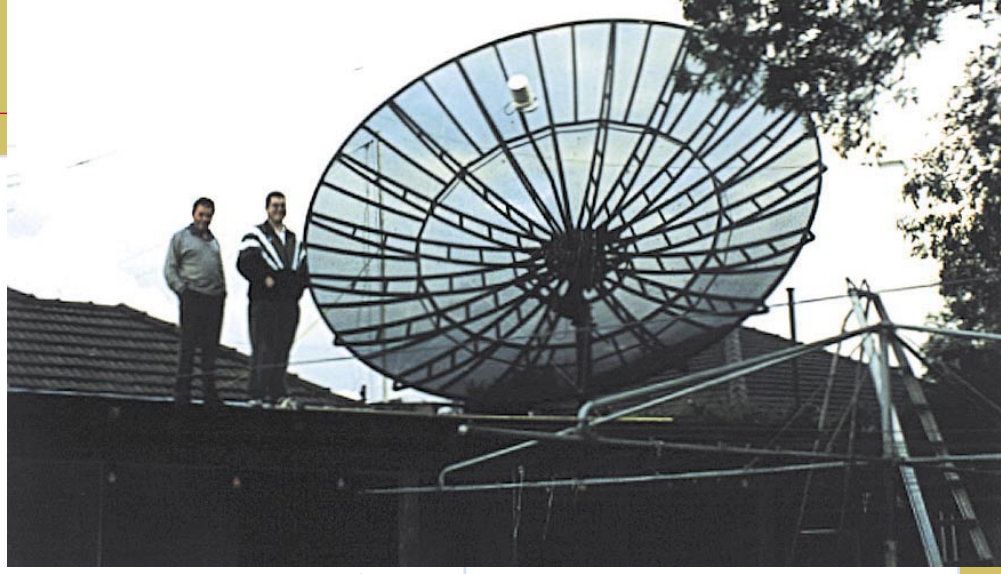
MSK 33
Measuring QPSK and QAM

Good measuring equipment can always be recognised by its size and even more by its weight. You will see most professional engineers carrying around a heavy case. But out there, up on the roof, the heavier the tool to perfectly align the dish, the more dangerous it becomes for the one who is doing the job. Carrying around heavy stuff

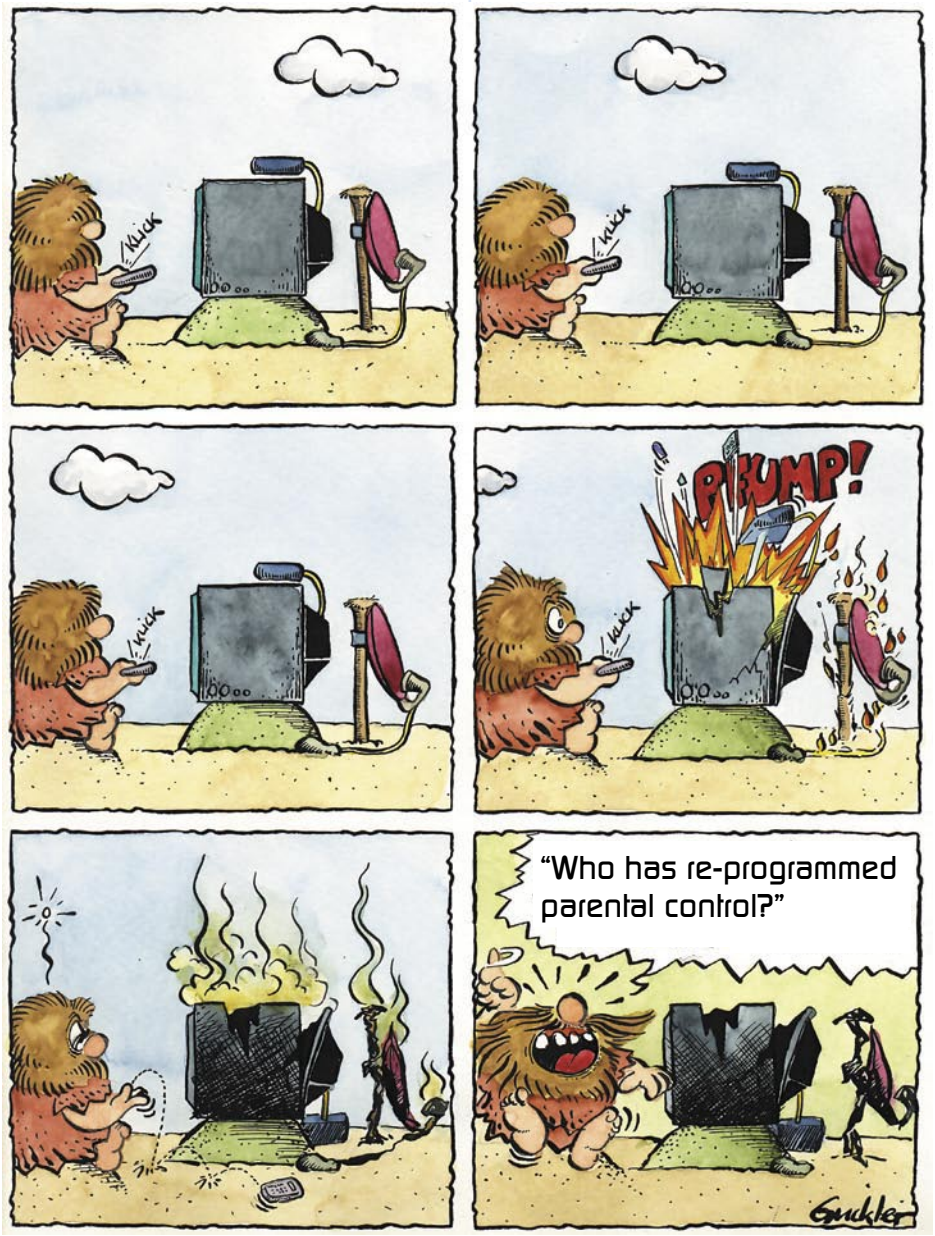
on the roof of a house is not really sensible. The weight of those measuring instruments comes from the built-in cathode ray tube. Although most of the times still in black and white, the power requirements are high, increasing the weight of the batteries. Some use LC displays but most of the time, they also come with tiny buttons and a display that's hardly readable in bright sunshine. The new MSK 33 from Grundig and Kathrein weighs only 6 kg. Not very light-weighted but still a much better weight compared to the competition. It offers on-the-fly measuring and analysing digital signals, printing, LCD display, battery and power adapter. And investing in this measuring tool is a secure investment for the future, since it is built on a modular basis, making it possible to swap certain modules and upgrade to newer technologies. You might, for instance, later replace the MPEG II 4:2:0 board with an MPEG II 4:2:2 board. Many other tools can be thrown away as garbage after a few years, not the MSK 33. It will keep as valuable as it was even when newer technologies come around. The MSK 33 can also be upgraded with a graphic module making it the MSK 33/G, or the MSK 33/Q with a QPSK/QAM module.

Australian Satellite DXer Bevin Boden

I attended a radio convention at Mt Gambier South Australia about three years ago. A fellow ham had a display of satellite TV on 12 GHz. The analogue receiver was fed by a 1.8 metre solid dish which I learnt later was for sale. Well, for A$300 I made the dish and LNB mine. I was able to buy a Panasat analogue receiver for another A$300, and when the convention was over I put this dish on the roof of the station wagon and headed for Adelaide 300 kilometres north. When I stopped to get petrol I was asked what it was that was strapped to the roof? Standard answer: a large wok as used for making lots of Chinese meals at charity functions. Oh, what a good idea, was the reply. We Australians are odd. I might add I also bought a C band LNB and polarotor as well because I knew I would get a little bored with one satellite and a couple of feeds all my life.



When I arrived home, it was up on the roof to set the dish up and watch a new world out there. News feeds, the odd movie and series transmitted for regional stations to record for later transmission and some sport. This enthusiasm lasted about a week. Time to make a couple of arms and mount up to look at C band. The Indonesian and Chinese stations opened my eyes more than anything and I think any new enthusiast will tell you they get a tingly feeling just looking at all the life being lived by people out there. Your knowledge of the world immediately expands and you become familiar with various time zones around the world.



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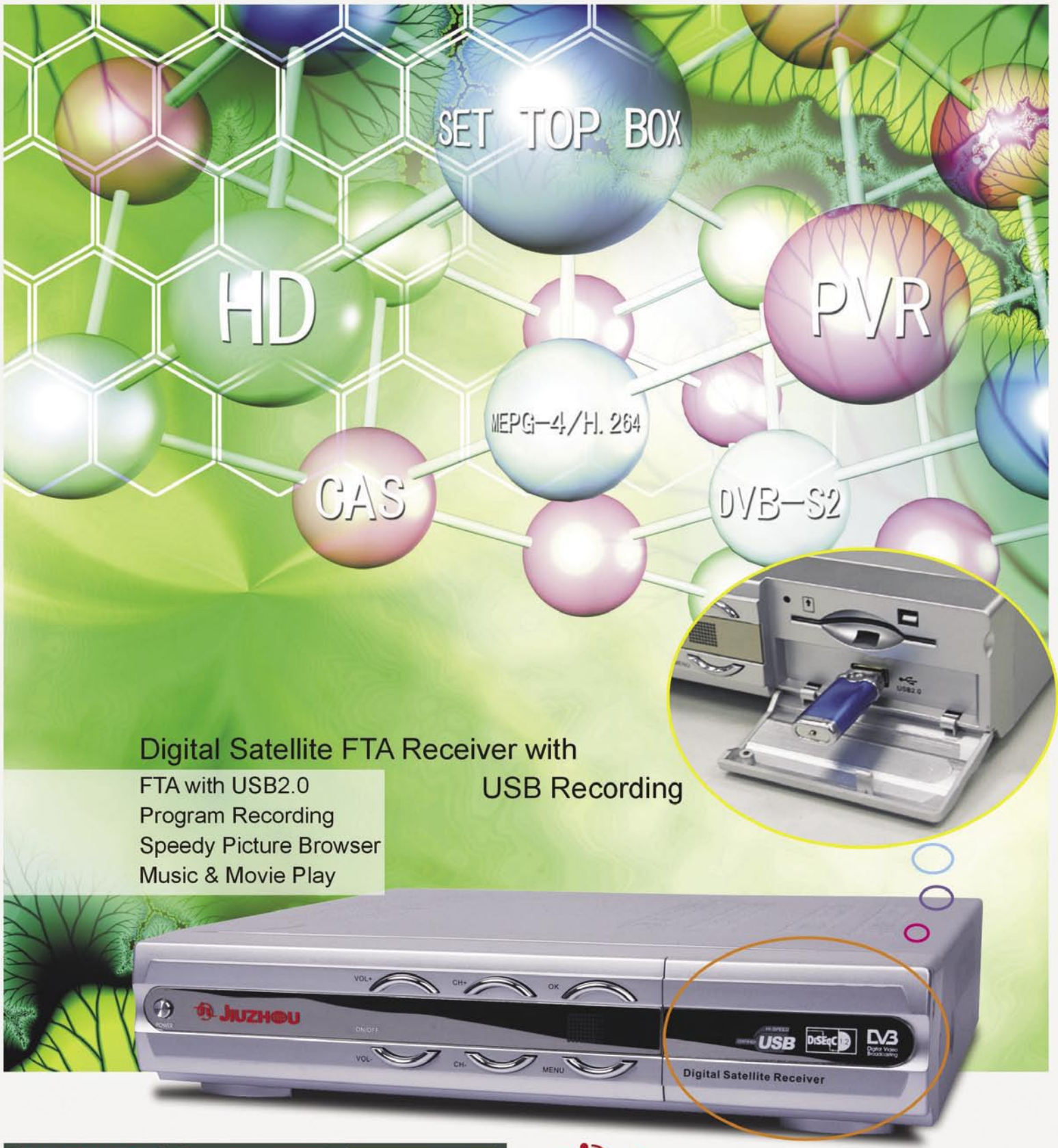

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