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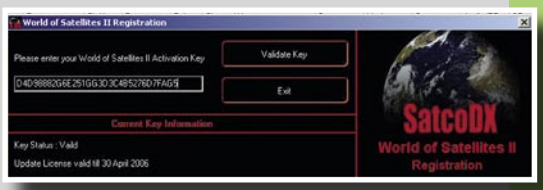
2. Enter the Activation Code by clicking LICENSE and then REGISTRATION. After entering Activation Code click VALIDATE KEY and EXIT. Now you are ready to download the newest satellite transponder data anytime you want, provided your computer is connected to the Internet and is allowed to access FTP.

Note: SatcoDX Software also runs without Activation Code, or with an outdated Activation Code. However, the satellite data on



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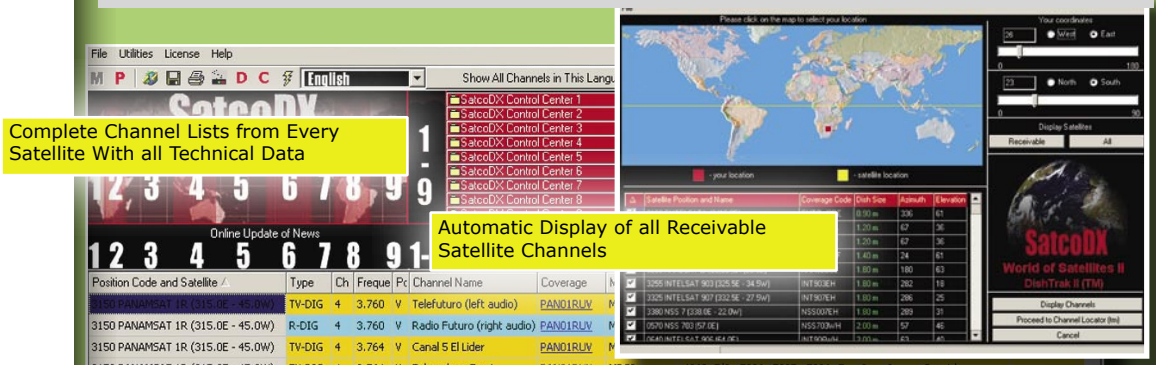

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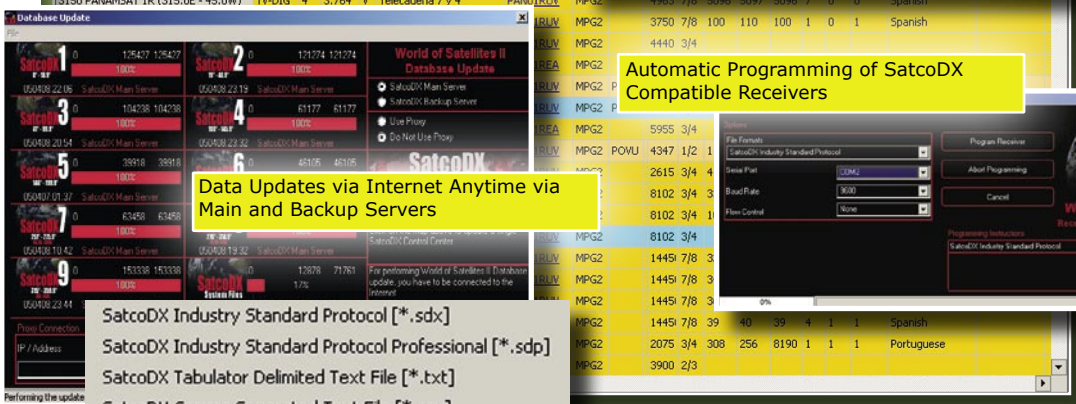
Automatic Display of all Receivable Satellite Channels



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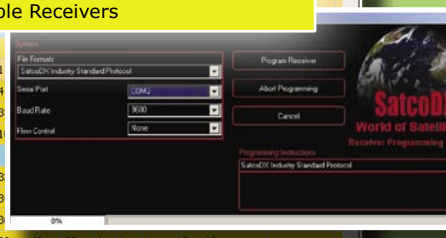

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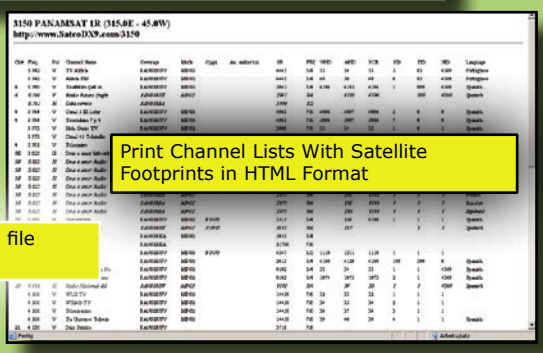

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CONTENT

Dear Readers

TELE-satellite will be spending more time in the future on the subject of signal analyzers. In this issue we are introducing two new signal analyzers: a powerful and complex unit as well as one geared more for normal users. Why are these signal analyzers becoming more and more important? Simple: the technology is becoming increasingly complex. An even more important reason is the ever-increasing number of satellites. More and more satellites are being positioned closer to each other. That alone makes the proper alignment of satellite antennas all the more critical. With only 2° or 3° of separation, it's all too easy to point your dish to the wrong satellite by mistake. The result is that the satellite you want is weaker to receive. Once bad weather arrives, you lose whatever reserve signal you had.

With the naked eye and using a living room receiver as your "signal analyzer", you might never notice a slight misalignment of the antenna: the incoming signal is always at its best when the weather is nice (who installs an antenna in the pouring rain?). Only when a proper signal analyzer is used can you reliably determine even on a bright sunny day that the antenna is correctly aligned. The alignment is performed using only the signal analyzer; switching to TV reception takes place only after successful antenna alignment – and is not used as an alignment aid.

Precise alignment becomes even more critical with the reception of two satellites, whether it's with a Monoblock LNB such as the 6° model also introduced in this issue or with a multifeed mount. In a case like this, two individual satellites need to be optimally received and this typically can only be done with the help of a signal analyzer. The reception of two (or even more) satellites is becoming more and more important: new HDTV channels are often transmitted from new satellite positions; the need to receive two satellites is becoming far more necessary.

The professional installer always knew why he needed to use a signal analyzer. Now the occasional installer and even private users will sooner or later not be able to get around using a signal analyzer. The falling prices put these products easily within reach. A true Man-toy would be the small handheld units with built-in TV monitor – just such a unit is also being introduced in this issue.

If you are regularly involved with satellite reception, you can't do without a signal analyzer – in the end, it's all about having a little fun, isn't it?

Sincerely,
Alexander Wiese

P.S.: My favorite radio station of the month: mP3 from Norway, THOR at 359° east (1° West) 11.372V audio-PID 706 – not to be confused with the P3 channel with audio-PID 702. mP3 is - and who couldn't tell by its name - NRK's kid channel in Norway that plays all the top hits with no interruptions and no commercials.

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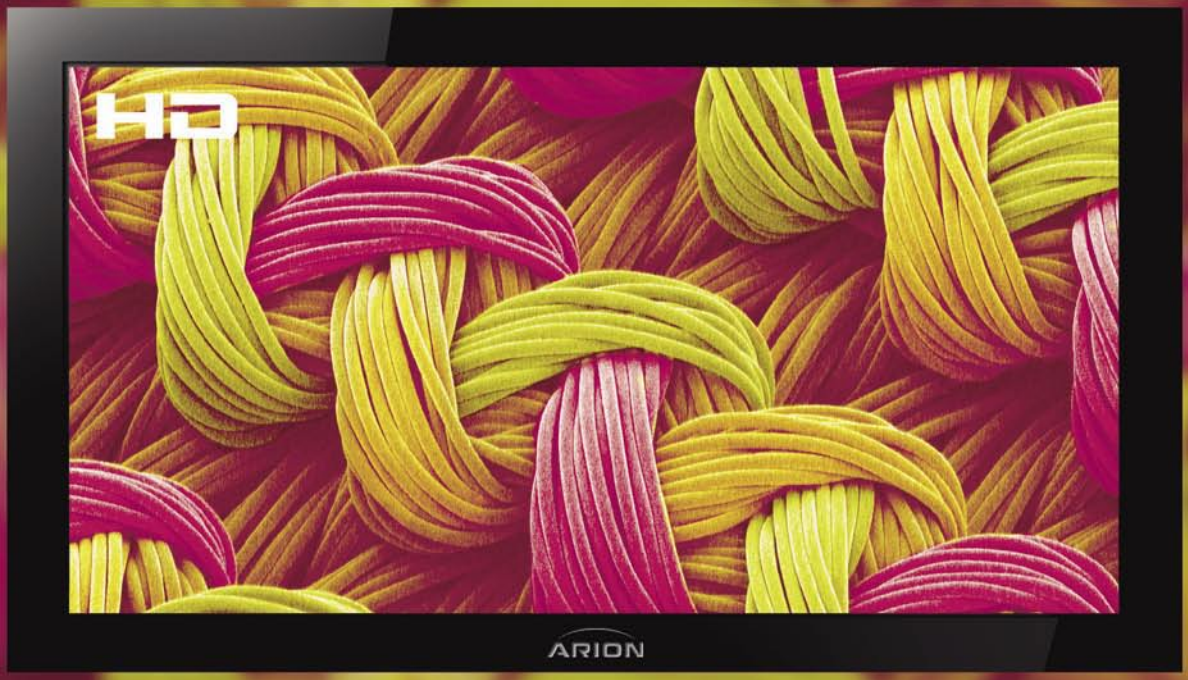

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HUMAX

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HDTV for satellite and cable reception

- Suitable for Premiere and Premiere HD
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- opt. out for Dolby Surround Sound
- Nagravision embedded
- HDMI (with HDCP)
- 2 x CI SLots
- 2 x Scart

HUMAX

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- AV File transfer by USB 2.0 port
- 2 Common Interfaces
- HDMI output

TOPFIELD

TF-7700 HD PVR NEW

HDTV Digital Satellite Receiver with Personal Video Recorder

- Fully DVB-S / DVB-S2 (H.264) HD compliant
- With 2 tuners
- Time shift supported
- Dual Recording supported
- DivX codec embedded
- USB memory supported

TOPFIELD

TF-7700 HSCI / TF-7700 HCCI

HDTV for satellite and cable reception

- Supports MPEG-2, MPEG-4, H.264 and fully DVB compliant
- 2 Common Interfaces
- USB 2.0 supported for fast PC interface
- VFD Display for service information

HUMAX

PREMIERE Receiver

PR FOX II

- Premiere and Kabel Digital
- 1000 services (TV and Radio) programmable
- Optical digital output

BLU FOX S

blucom ENTAVIO

- Premiere and Premiere Star
- interactive services via mobile phone by Bluetooth
- Optical digital output

BLU FOX CI

blucom ENTAVIO

- Premiere and Premiere Star
- interactive services via mobile phone by Bluetooth
- 1x CI Slot
- Optical digital output

TOPFIELD

TF 6000 FE

Digital Satellite Receiver

- MPEG-2 Digital and fully DVB compliant
- DiSEqC 1.0, 1.1, 1.2 and USALS (DiSEqC 1.3)
- 5000 services (TV and Radio) programmable

TF 6000 T

Digital Terrestrial Receiver

- MPEG-2 Digital and fully DVB compliant
- 2000 services (TV and Radio) programmable
- Multilingual Audio support

HUMAX F3 FOX CI

Digital Satellite Receiver with CI Slot

- Scrambled channel receivable with DVB CI.
- MPEG-II Digital & Fully DVB Compliant.
- Max. 4000 channels receivable.
- Channel list mode
- 4 Favorite channel groups
- DiSEqC version 1.0, 1.2 USALS compliant

Measuring Instruments

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Check two LNBs at the same time
With DiSEqC tester

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- Dual Recording

Available in black and silver

TOPFIELD TF-6000 PVR W-LAN

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- CONAX
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- ASTON / SECA
- CRYPTOWORKS
- CRYPTOWORKS (Arena)
- PREMIERE

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- ALPHACRYPT Classic
- ALPHACRYPT TC
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- CONAX MPEG 2+4

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- BEST
- INVACOM
- ALPS
- INVERTO
- MAXIMUM
- TITANIUM, etc.

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– Quad Universal
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– Monoblock Twin Universal
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Mini Actuators – 6", 8", 10", 12"
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Heavy Actuators – 24", 36"

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SG 99	– up to 1,00 m
SG 107	– up to 1,10 m
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Stab HH100 DiSEqC 1.2	– up to 1,00 m
Stab HH120 DiSEqC 1.2	– up to 1,20 m

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25 cm distance – Steel
50 cm distance – Steel

120 cm length – Ø 6 cm

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– Balcony stand 100 cm Steel
– Balcony stand "Holland"
– Balcony holder L-form 25 cm
– Balcony holder L-form 50 cm

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Edited by
Branislav Pekic

EUROPE

EUROPE
ONE IN FIVE HOMES HAS HDTV SET
Satellite operator SES Astra says one in five European homes now has an HDTV set, with more than 37 million HD Ready sets bought in Europe since Feb 2005. According to data drawn from GfK Retail & Technology, almost 40 million HD Ready sets, either Plasma, LCD or rear projection, are in use, while another 24-25m flat panel sets (without the HD Ready tag) are in use. Based on the latest data from Screen Digest, SES Astra expects Europe to have some 400 HDTV channels by 2012, with about 160 of them on satellite.

AUSTRIA
ADB TO SUPPLY IPTV BOXES TO TELEKOM AUSTRIA
Advanced Digital Broadcast (ADB) has been selected to supply high definition, Advanced Video Coding (AVC) ADB-3800W IPTV set-top boxes to Telekom Austria for their IPTV television services. In addition to 82 TV programmes the IPTV television service includes VOD, an EPG and radio channels.

FRANCE
FREE LAUNCHES NEW FEATURE
IPTV provider Free has launched a new option allowing subscribers to 'broadcast' websites on television. The Telesite service allows customers to restrict the site to their own Freebox or available to all Free users. It also allows customers to upload videos via the TV Perso feature or the Telesite service. The current availability of these services is only to Freebox HD subscribers.

EUROSPORT TO LAUNCH HDTV SERVICE IN MAY
Eurosport will launch an HD simulcast channel on May 25, just in time for the start of the French Open-Roland Garros tennis Grand Slam. Additionally, viewers can count on seeing content from the Tour de France and the Beijing Olympics. Carriage agreements have been signed with platforms in Israel, Turkey, Portugal and the Nordic countries.

GERMANY
JDS UNIPHASE TO PROVIDE IPTV TEST SERVICE TO DT
California-based provider of optical communications products and services, JDS Uniphase, will supply its IPTV test service to global carrier Deutsche Telekom. JDSU's NetComplete service assurance system and associated IP test probes will be deployed in Deutsche Telekom's network.

GREECE
ERICSSON PROVIDES IPTV SOLUTION FOR OTE
The Hellenic Telecommunications Organization (OTE) has picked Ericsson as an end-to-end IPTV systems integrator, solution provider and business consultant. The initial offer includes broad range of broadcast channels, VOD, EPG, and PVR capabilities.

ICELAND
VODAFONE OPTS FOR SECUREMEDIA FOR IPTV SECURITY
Vodafone Iceland has implemented and deployed the Encryptonite ONE System from SecureMedia in order to protect its next generation end-to-end IPTV offering. Vodafone Iceland offers mobile, fixed-line, FTTH, and ADSL/Internet services, while its IPTV service features an extensive video offering complete with customer personalization and interactivity.

IRELAND
SMART TELECOM LAUNCHES IPTV SERVICE
Smart Telecom in April launched its DSL-based multi-channel IPTV service in the 37 unbundled exchanges in which it currently offers broadband. The soft-launch will begin with selected customers closest to exchanges, before a general rollout across the country. Smart plans to invest US$4 million in a MPEG 4 IPTV head end and middleware solution from Thomson. The operator will deliver more than 100 TV and radio channels to an addressable 550,000 homes.

ITALY
MCDONALDS TO INSTALL IPTV NETWORK
SkyRec will use CodecSys from Broadcast International to implement a private IPTV network in 335 McDonald's restaurants throughout Italy -- the first implementation of its kind. In partnership with Samsung Italy, the new network will deliver proprietary video content. This content includes sports, live news and sports, in addition to pre-recorded commercial content.

LITHUANIA
WIDEVINE SELECTED TO PROTECT TEO IPTV SERVICE
Widevine Technologies has been selected by Lithuanian telco TEO LT to secure delivery of premium broadcast and video-on-demand content for its GALA IPTV service. TEO now offers hundreds of VOD films, 52 channels including sports packages, Virtual Cinema and games services to more than 20,000 subscribers. Widevine, in partnership with Ericsson, the systems integrator leading the project for TEO, and Motorola, supplier of the set top boxes, offer a tightly integrated and highly scalable IPTV platform.

LUXEMBOURG
SES ORDERS NSS-14 SATELLITE FROM LORAL
SES New Skies has contracted Space Systems/Loral, a subsidiary of Loral Space & Communications, to supply a new satellite, NSS-14. The new satellite will be deployed over the Atlantic Ocean at 338 degrees East, enabling the incumbent NSS-7 satellite to move to another location. NSS-14 will be a hybrid satellite featuring 52 C-band transponders and 72 Ku-band transponders. The satellite is scheduled for launch in the fourth quarter of 2010.

THE NETHERLANDS
DUTCH PUBLIC TV IN HDTV FROM 2009
The main Dutch public TV channels will be made available in High Definition as early as 2009 after cable operator Zesko agreed a joint-venture and carriage deal for HD simulcasts of the three national channels Nederland 1, 2 and 3 in its basic digital package. Using the 720p standard at launch, local HD content will initially be limited. Negotiations are underway with other operators, such as cabler UPC, to join the HD initiative.

POLAND
TANDBERG POWERS IPTV SERVICE FOR MULTIMEDIA POLSKA
Tandberg Television's OpenStream Digital Services platform has been fully deployed by Multimedia Polska to power its entire VOD services, which is a critical part of their deployment of a major, advanced multimedia offering. Tandberg has provided its Xport on-demand content production software system, as well as its OpenStream back office. Multimedia Polska launched a HDTV offering in 2007 and plans to add more advanced, revenue generating services such as mobile TV.

PORTUGAL
PT CLOSES 2007 WITH 21,000 IPTV SUBSCRIBERS
Portugal Telecom (PT) has signed 30 percent fewer customers for its Meo IPTV service in 2007, closing the year with 21,000. The operator managed to sign up 15,000 TV customers in the final quarter of the year.

RUSSIA
STREAM OFFERS HDTV VIA TELEPHONE CABLE
Comstar-Direct's Stream service has launched a high-definition TV offering and the soft-launch of Stream's HDTV offering will run till June 1. It currently offers four channels—Discovery HD, MelodyZen, Luxe TV and Voom HD—and a package of ten movies via VOD. In Moscow, Comstar has 3.6 million residential subscribers, 452,600 broadband Internet subscribers and 108,600 corporate subscribers.

RSCC TO BUILD EXPRESS-AM4 SATELLITE
The Russian Satellite Communications Co. (RSCC) signed a contract with Khrunichev Center to build the Express-AM4 satellite. The spacecraft will be based on EADS Astrium's Eurostar E3000 platform and carry 63 transponders operating in C-, Ku-, Ka and L-bands. The satellite, which will be located at 80° East, will be delivered in the second half of 2010.

SLOVENIA
TUŠ TELEKOM OPTS FOR ORBIT 2X SERVER FOR IPTV SERVICE
Slovenian telco Tuš Telekom has launched on-demand IPTV services using Edgeware's Orbit 2x server system. The system uses solid state flash memory storage to achieve scalability, quality of service, reliability and low total cost of ownership. It also enables deployments of interactive TV services such as time shift TV, VOD, nPVR and dynamic ad insertion.

SWEDEN
RUCKUS WIRELESS SELECTED BY TELENOR FOR IPTV
Ruckus Wireless has been selected by Telenor to supply Smart Wi-Fi 802.11g systems for the wireless distribution of its popular IPTV service, offered to subscriber homes throughout Sweden through the wholly owned subsidiary Bredbandsbolaget. The Ruckus MediaFlex systems are being made available to consumers in Sweden through Telenor retail outlets, and can be easily self-installed by subscribers. Bredbandsbolaget has over 450,000 broadband customers.

SWITZERLAND
BLUEWIN ENDS 2007 WITH 70,000 IPTV SUBSCRIBERS
Swiss IPTV service Bluwin TV connected 70,000 homes at the end of 2007 and hopes to increase its customer base to 200,000 - 250,000 users by the end of this year. Bluewin TV currently offers over 100 TV stations, numerous of HD services and radio stations.

UKRAINE
COMSTAR LAUNCHES IPTV IN ODESSA
Russian fixed line and broadband operator Comstar UTS has announced that its Ukrainian division has launched commercial IPTV in Odessa, the country's second largest city, and plans to expand the service to the capital Kiev by the end of this year. Comstar's TV-over-broadband service is delivered via a fibre-optic network using IPSoft iVision software developed

by Netris, and initially offers 60 broadcast TV channels, with further plans to up the number of channels to 90 and launch a VOD service.

UNITED KINGDOM

BBC AND NHK WORKING ON HD SUCCESSOR

The BBC and Japanese public broadcaster NHK are working on new format which promises to deliver pictures in a quality 33 times better than the best HD sets on the market. Super Hi-Vision is currently being tested by NHK, but the BBC is planning to use the technology to screen the 2012 Olympics on big screens in city centres across the UK.

OFCOM PLANS TO RAISE BILLIONS FROM HDTV AUCTION

Television regulator Ofcom is hoping to raise billions from an auction of high definition TV spectrum. Three HDTV channels will be launched in 2009 and a fourth in 2012, the regulator said. One slot will be reserved for the BBC, which already broadcasts its BBC HD channel via satellite and cable. The other three will be awarded after an auction open to ITV, Channel 4, Five and Welsh language broadcaster S4C.

FRANCE TELECOM PREPARES IPTV LAUNCH

France Telecom has confirmed it will soon launch its triple play service in the U.K., via the Orange brand. In order to avoid limiting the appeal of the service and alienating any of its existing 1.4 million DSL customers, Orange UK is calling its service Digital TV, and will not use the term IPTV externally. The service has been trialled since November 2007 in London and the northern city of Leeds with 350 existing, paying Orange UK broadband customers.

NORTH AMERICA

CANADA

SOGETEL TO OFFER IPTV

Occam Networks has announced that Canadian independent telco Sogetel has purchased Occam's Broadband Loop Carrier (BLC) 6000 solution to complete a "significant" network upgrade with the intention of offering IPTV and VoIP services. Quebec-based Sogetel is deploying Occam equipment at more than 35 sites across Sogetel's service area. The telco is using ADSL2+ to provide IPTV over the last mile copper line.

UNITED STATES

AMC-14 SATELLITE FAILS

Dish Network's new satellite designed to expand its High-Definition programming capacity failed in mid-March. The AMC-14 satellite, which Dish was leasing from SES Americom, had lifted off successfully, but an "anomaly" occurred during the second burn of the Breeze M upper stage. The satellite then failed to reach its planned orbit. Once operational, the satellite was expected to enable Dish to begin adding HD channels, increasing its current total to roughly 70 to 100 by year's end.

TIME WARNER CABLE TO CARRY 100 HDTV CHANNELS

Time Warner Cable of New York and New Jersey is poised to carry 100 HD channels and add more than 250 HD On Demand choices by the end of 2008 across the company's service area, starting with a total of 50 on April 30. Over the next year in an area-by-area rollout, Time Warner Cable of NY/NJ will launch "Enhanced HDTV" which includes the cable-exclusive Start Over service. It allows customers to start a program over during its allotted time slot without the need for a DVR.

DIRECTV 11 SATELLITE LAUNCHED SUCCESSFULLY

DirecTV's new HDTV satellite was successfully launched on March 19 by a Sea Launch Zenit-3SL rocket. Once operational in September, DirecTV 11, will enable the satellite broadcaster to offer up to 150 national HD channels, compared to the current 90. DirecTV also plans to deliver local HD channels to more than 100 markets, representing 84% of U.S. TV households. It plans to launch yet another satellite in 2009 that will enable it to provide up to 200 national HD channels.

CARIBBEAN

TELBO SELECTS AMINO STB FOR IPTV SERVICE

Telefonia Bonairiano (Telbo), a telecommunications company in the Dutch Caribbean region, has selected the AmiNET125 multi-codec set-top-box from Amino for its IPTV service, jointly developed by. Telbo, Savant Communications and Manycast Consultancy. The mitv service, which is a part of Telbo's triple-play offering, will air around 40 channels including HBO, Discovery and FOX. The Dutch Public Channels, Nederland 1, 2 and 3, will be inserted into the head end via optical submarine cables. By deploying

the AmiNET125, Telbo will offer its subscribers more than the traditional triple-play (video, voice and data) services.

LATIN AMERICA

CHINA TO LAUNCH VENEZUELA-URUGUAY SATELLITE

Venezuela and Uruguay plan to have their own communications satellite in space by the end of 2008. Under an agreement signed in November 2005, the China Great Wall Industry Corp was contracted to design, manufacture, test and put into orbit the Venesat-1 for Venezuela. Uruguay later joined the US$ 241 million project, financing 10% of its cost. The satellite is called the "Simon Bolivar Satellite," named after the South American revolutionary.

COLOMBIA

EPM TO LAUNCH IPTV IN MID-2008

Local telecom operator EPM has told local media that it plans to launch its IPTV service in the middle of this year, one year after initially forecast. According to the vice president of resources, Carlos Gabriel Álvarez, EPM will also increase its network coverage to reach 60% of the capital Bogota by year-end. The operator aims to end 2008 with 33,351 subscribers to its IPTV service, and increase this figure to 250,000 by 2011.

ECUADOR

ANDINATEL TARGETS 2009 LAUNCH FOR IPTV SERVICE

Local telecom operator Andinatel anticipates launching IPTV services in 2009, according to company President César Regalado. The executive said that Andinatel expects to launch commercial trials in coming months in order to test the service. IPTV services will initially be available in the national capital of Quito and gradually expand to other areas. The telco provides services in 13 provinces in north-central Ecuador.

PANAMA

SECUREMEDIA TO PROTECT CTV TELECOM IPTV CONTENT

CTV Telecom has selected SecureMedia's Encryptonite ONE System to secure content on its new IPTV service. Through its integration partner Sonitel Networks, CTV Telecom has installed an advanced, optical fibre-based IPTV platform in Panama City, with reach to be expanded to more regions in the future. The IPTV service has already launched and offers over 100 broadcast, music and on-demand channels, telephone and broadband Internet.

ASIA & PACIFIC

CHINA

SHANGAI TO OFFER FREE IPTV SERVICE FOR TWO YEARS

Shanghai will offer a two-year conditional free IPTV service to expand its IPTV user base. The city's IPTV operator BesTV will cooperate with Shanghai Telecom to launch a sales promotion until June 30 targeting the city with unlimited-time 2 Mbps or 1 Mbps ADSL services. During the period, the company will exempt eligible users from paying the RMB 310 installation fee and two years' IPTV service fee if they can spend more than eight days a month browsing IPTV.

IPTV SURPASSES CABLE IN HONG KONG

Hong Kong looks set to be the first territory in the world where IPTV services overtake cable delivery of pay-TV. Annual results from telco leader PCCW showed that its Now TV subsidiary had 882,000 subscribers. Although I-Cable has yet to unveil its own numbers, PCCW was confident enough to claim that Now has "taken a leadership position." I-Cable previously announced that it had 830,000 as of June 30. Meanwhile, PCCW has deployed Harmonic's market-leading DiviCom Electra 7000 HD MPEG-4 AVC (H.264) encoders to power its HD channel service in Hong Kong.

ZHONGSHAN CABLE ADDS HDTV SERVICES

Guangdong's Zhongshan Cable is deploying BigBand Networks' (BBND) Broadband Multi-media-Service Router to process, manage and deliver digital television services, including HDTV and video-on-demand. Zhongshan Cable serves approximately 300,000 subscribers in the city and is using the BMR to improve the video quality and bandwidth efficiency of its television services.

INDIA

GOLDSTONE TO ROLLOUT IPTV IN 11 COUNTRIES

Goldstone Technologies plans to roll out IPTV services in 11 countries by the end of 2008-09, according to President and CEO Rajesh Kalidindi. "We are targeting south-east Asian and European countries for offering regional content. There is a huge demand for Tamil, Telugu, Malayalam, Kannada, Gujarati, and Punjabi content in these regions", he said in an interview. Goldstone Technologies recently launched the service in Thailand and plans to roll out IPTV services in Malaysia, Singapore, the Philippines, Japan, New Zealand, the UK, France, Germany, Israel and Spain in the next 11-18 months.

MALAYSIA

MEASAT TO LAUNCH NEW SATELLITE IN Q3 2008

Measat has announced that its next satellite is expected to be launched in the third quarter of this year. The satellite, previously known as Measat-1R, will be renamed Measat-3a as it is being designed to be co-located with the Measat-3 satellite at the 91.5°E orbital slot. The new satellite will have 12 high-powered C-band transponders providing coverage across Africa and Eastern Europe in the West, and Japan through to Australia in the East. It will also have 12 high-powered Ku-Band transponders for DTH customers in Malaysia and Indonesia.

TIME BROADBAND LAUNCHES IPTV SERVICE

Time Broadband Services (TBSL) has started mobile IPTV services in Malaysia and plans to expand it to China, India and Ukraine in the next three months. The company said that it will foray in each country with an initial investment of $10 million. TBSL, with Malaysian's Stanton Technologies has entered into an agreement with Chinese government entity Potevio to offer mobile IPTV services to over 500 million mobile users in China.

SOUTH KOREA

KOREAN COMPANIES TO INVEST US$ 15.8 BILLION IN IPTV

Korean telecom firms will invest around KRW 1.57tr (US$ 15.8 billion) in IPTV this year, according to the country's Broadcasting and Communications Commission (BCC). KT alone is expected to invest KRW 1.3tr in its IPTV service "Mega TV" this year, while LG Dacom will spend KRW 146.4bn on "myLGtv" and Hanarotelecom will invest KRW 122.1bn in "Hana TV". According to the report, a large part of the funds will be spent on expanding and improving Internet networks and purchasing TV content.

SRI LANKA

SRI LANKA TELECOM TO LAUNCH IPTV UNIT

Sri Lanka Telecom (SLT) has set up a subsidiary to broadcast IPTV services to its broadband customers. SLT plans to invest LKR100 million (US$ 1 million) in the initial launch of the SLT Visioncom unit.

TAIWAN

VASTAR CABLE TV LAUNCHES IPTV TESTS

Vastar Cable TV System from Taichung has begun operations of Vee TV, its HD IPTV service, on a trial basis. Vastar delivers Vee TV service through its fiber-optic network and the trial broadcast consists of three HD digital channels as well as HD VOD with content including NHK programs from Japan, nature shows and adult movies. Vastar plans to set a minimum monthly fee of NT$89 (US$3) per subscriber for viewing at least 32 channels. The whole fiber-optic infrastructure can serve 600,000-700,000 subscribers.

THAILAND

GOLDSTONE AND SYNOP MEDIA LAUNCH IPTV SERVICE

Software services firm Goldstone Technologies in March launched a IPTV service in partnership with Synap Media & Infotech. It broadcasts 20 TV channels along with movies in Hindi, English and several regional languages through the Internet and has its network operating centre in Thailand.

UNITED ARAB EMIRATES

YAHSAT TO LAUNCH SATELLITE FOR AFRICA

Al Yah Satellite Communications Company (Yahsat), the UAE's first nationally-owned satellite operator, has signed an agreement with Arianespace to launch the Yahsat 1A satellite in the second half of 2010. The satellite is currently being manufactured by the consortium of EADS Astrium and Thales Alenia Space. Another agreement was also signed with International Launch Services (ILS) to launch the Yahsat 1B satellite in first half of 2011.

VIETNAM

VIETNAM TO LAUNCH FIRST SATELLITE

The launch of Vietnam's first satellite has been set for April 19 by commercial services launcher Arianespace. The Vinasat project, which cost about US$ 300 millions, has been in the pipeline for more than 10 years. Vietnam signed a contract with US firm Lockheed Martin in May 2006 to build the satellite after delays largely due to problems in coordinating its frequencies with those of satellites already in orbit in the region. The satellite 20 transponders for transmission and reception of TV channels, telecommunications and the Internet.

PACIFICOCEANIA

AUSTRALIA

ABC TO LAUNCH IPTV REPEAT CHANNEL

ABC has announced four new digital services including an IPTV station called "ABC Playback" which will allow viewers to stream shows that were broadcast by the ABC in the previous week. The trial online service is currently showing three channels - ABC Catch-up (a mix of popular and specialist shows previously screened on ABC1 or ABC2), ABC Real (natural history programs and general documentaries), and ABC Shop channel. An ABC news channel is also on the cards one the service goes live.

NEW ZEALAND

FREE-TO-AIR HDTV LAUNCHED

New Zealand launched its first free-to-air HDTV broadcast service in April, with the TV1, TV2 and TV3 channels. Branded Freeview HD, the new service will be available in nine major centres (Auckland, Hamilton, Tauranga, Napier, Hastings, Palmerston North, Wellington, Christchurch and Dunedin). The first high-definition programming from TVNZ is likely to be coverage of the Beijing Olympic Games, which will be broadcast in HD during August and September.

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INDONESIA

Why DiSEqC Isn't Always Reliable

Heinz Koppitz

The DiSEqC control system, developed jointly by EUTELSAT and Philips that runs over the existing coaxial cable is a feature that modern satellite systems simply can't do without. With the DiSEqC 1.0 and 1.1 versions the receiver automatically selects the necessary parameters and switches between multiple antennas or LNBs. To control motorized antennas, the system was further expanded to include DiSEqC 1.2. Oddly enough, very few receivers implement all of these functions.

▲ Arcon's DiSEqC 1.2 settings

The definitions for the DiSEqC steps are precisely defined in the protocols. The higher the number, the higher the complexity of the control commands; the individual DiSEqC steps were built on top of each other. In other words, DiSEqC 1.2 also includes all of the control commands for DiSEqC 1.0 and 1.1. DiSEqC 1.2 should then be able to do it all – it should not only be able to handle the switching commands for multiswitches but should also be able to control an antenna motor. But this is not true.

Very Few Receivers Have Implemented All of These Protocol Functions

Most receivers don't fulfill all of the protocol defined functions at the same time. Most of the time DiSEqC 1.2 does not include the control commands defined for DiSEqC 1.1. But this is understandable; a large apartment system that requires DiSEqC 1.1 won't be using a motorized antenna. At the same time, a single antenna mounted on a motor won't need the control commands for DiSEqC 1.1. But it is important to know that when you are purchasing a receiver for use in an apartment system, the DiSEqC 1.2 label is not good enough; the DiSEqC 1.1 label is also necessary!

The motor commands that were added for DiSEqC 1.2 were:

Goto East/West – move to the east/west fast or slow

Store nn – Store the current motor position in location "nn"

Goto nn – move to stored motor position "nn"

Limits East/West – East/west software limits on/off

Goto 0 (Reference) – Move to Reference Point 0 of the motor

Re-Sync (Shift) – Shift all motor memory positions by "nn"

Goto X – Move to position X° east/west

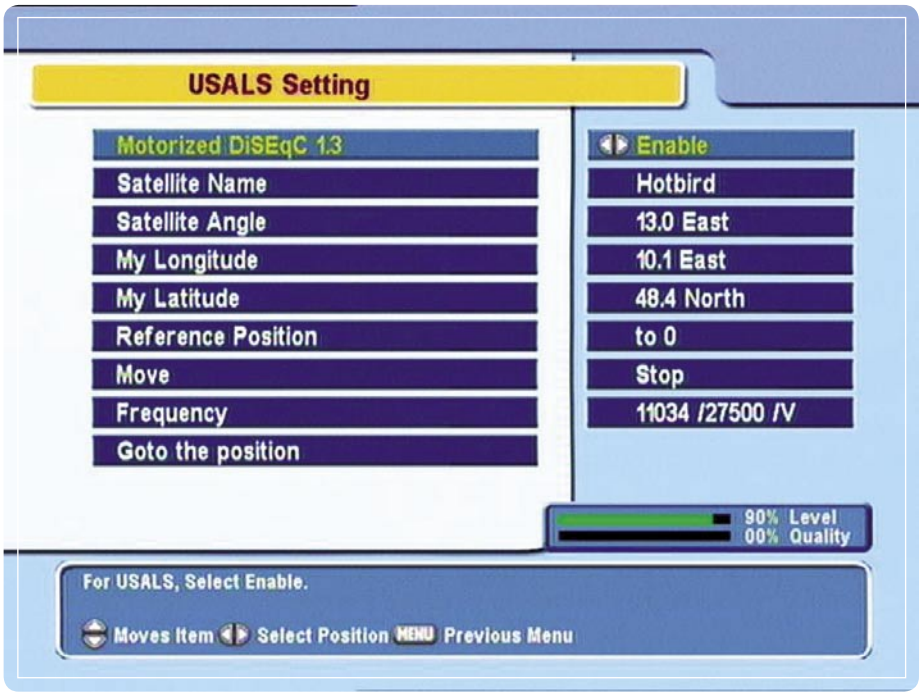
The Motor Control Commands are Not Optimal

The most critical GoTo east/west control commands can be found in all receivers. However, there are differences in quality: some receivers can't move the antenna slowly or in little steps. On the other hand, there are exceptional receivers that will automatically stop moving the antenna when maximum signal strength has been reached – this greatly simplifies the search for a satellite.

The Store nn and GoTo nn commands are used to store the position of a satellite that has been found so that it can easily be recalled later. "nn" is the two-digit position number assigned by the receiver to store the angular position in one of the 60 storage locations of the motor. But you don't see any of this in the receiver's menu and you therefore have no direct access to these stored locations.

The Storing of Satellite Positions in the Motorized Antenna is Not Reliable

The receiver assigns the position numbers based on its own internal logic and only rarely are they placed in the proper order



▲ Topfield's USALS settings

in the antenna. This wouldn't normally be a problem except that with a hardware or software reset all existing position values are deleted. All existing settings would then be lost!

The manufacturers of motorized antennas wanted to make the task of finding satellites easier and incorporated preset values for the more popular satellites. With these preset values it was thought that only a fine adjustment would be necessary. It turns out that this was a big mistake. At some point the order in which the receiver stored the positions will not agree with the preset positions so that you won't be able to find them. Furthermore, the preset values are completely useless since your values and the valid local values never agree.

The Re-Sync Command is Useless

The Re-Sync command takes all the preset position values and shifts them all by the same amount. This function is just as senseless.

It would only be appropriate if the position numbers between the receiver and antenna motor would agree with each other. But this is not the case; shifting would only result in chaos. The preset values couldn't be corrected with a linear shift anyway – this command makes no sense. Fortunately, there's the GoTo 0 command. It drives the motor to its mechanical null point and restores all the position values to their initial settings.

GoTo X can simplify the Satellite Search

Even though all antenna motors understand the GoTo X command, it is hardly ever used with DiSEqC 1.2 receivers. Every satellite's position can be directly entered in the receiver.

Of course, this requires that the antenna assembly be meticulously installed in the first place. The motor and antenna assembly must be aligned perfectly to the south in the northern hemisphere (to the north in the southern hemisphere) so that a fine adjustment is not necessary (this could only have been done by rotating the assembly on the mast). The GoTo X function stores the satellite positions in the receiver instead of the motor. This is a substantial improvement in that this isolates the receiver from the unreliable memory of the antenna motor. That's why they are being used in increasing numbers especially with USALS.

Such receivers (also labeled DiSEqC 1.3) come with yet another improvement that allows the entire satellite fleet to be stored automatically: A spherical coordinate calculation program is built into the receiver that automatically calculates the position of all of your favorite satellites. You just need to enter in your geographical position into the receiver; based on this data, the satellite positions are converted into the required azimuth angles for your location and then stored for each satellite.

What *DiSEqC* Do You Need?

1. No *DiSEqC* is good for single antenna systems that are fixed on one satellite. Every receiver can handle this.

2. *Tone Burst* is used for the simultaneous reception of two satellites with a monoblock LNB. This switching criteria is supported by every digital receiver.

3. *DiSEqC 1.0* is for multifeed and/or multi-antenna systems with up to four LNBs/antennas. This expansion of Tone Burst can operate four to eight switches.

4. *DiSEqC 1.1* is for multifeed systems with cascading multiswitches. This expansion of DiSEqC 1.0 can switch between up to 56 satellite signals. Control commands are repeated multiple times to guarantee that they reach every switch level. It is usually only used with larger antenna systems.

5. *DiSEqC 1.2* drives H-H antenna motors so that all of your favorite satellites can be received. It has some weaknesses with regards to storing satellite positions.

6. *DiSEqC 1.3* also drives H-H motors. With the position calculations built into the receiver, it takes full advantage of the DiSEqC 1.2 GoTo X commands. These receivers are labeled with USALS, DiSEqC 1.3 or GoTo X.

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- Alphanumeric VFD display with channel name presentation
- PiP and PaP functions for One and Two tuners
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- Internal SATA (SATA I) hard discs supported
- Simultaneous recording of two channels
- Time Shift function - possibility of getting back in time on real time channel
- Built-in AC3 decoder with 2.0CH downmix
- Internet radio playback
- Web interface for complete remote management of the receiver
- Possibility of watching TV programs through LAN or Internet
- Software upgrade through Internet
- USB 2.0 Host + USB 1.1 CLIENT
- MP3 and pictures playback,DivX supported, possibility of watching TV programs through LAN or Internet (...soon)

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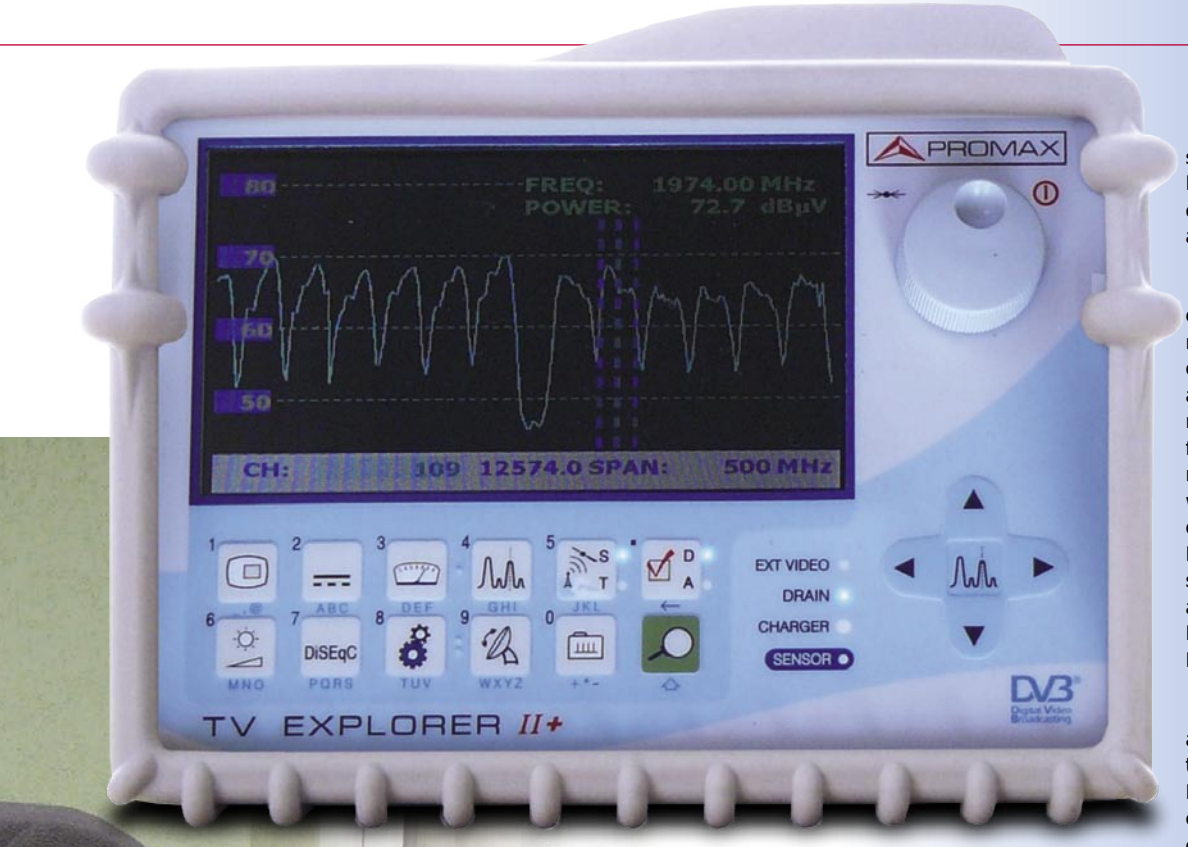


Some people can align their satellite dishes without any extra equipment. Sometimes, they even do it without a signal finder - using only a standard satellite receiver. Of course, this method takes much more time and the alignment may not be as perfect as it could be. Things are not as easy when the antenna is on the roof. In this case you should at least have a simple signal finder although this will not be good enough if you are planning to set up and maintain an SMATV network.

When you have to precisely align several satellite and terrestrial TV and radio antennas, then mix all the incoming signals and distribute them among many different apartments in a building, you need something much more sophisticated. That's where the TV Explorer II+ from Promax comes into play. This instrument is so versatile that it's difficult to find a proper name for it. Is it: a field strength meter, a spectrum analyzer, a satellite finder, a test receiver or a constellation diagram meter? Is it for analog or digital TV signals? Is it for satellite, cable or terrestrial transmissions? Is it for TV or radio signals? The TV Explorer II+ is all of these things and is more than capable of handling all of these measurements! We've decided to call it a universal signal analyzer because there is no better name for such a multifunctional instrument just yet.

Our regular readers may remember our test report on the Prolink-4C Premium. This meter also came from Promax. We were really impressed by its performance and versatility. Its successor, the TV Explorer II+, is much smaller and lighter but at the same time even more powerful and ergonomic. Sounds impossible? Believe us, it's true! In the TV Explorer II+, Promax added DVB-S2 signal analysis and a USB port. The menu structure has been redesigned and is now more intuitive and more dependent on the current measurement mode. When you measure one parameter, for example C/N, you can conveniently see all the other important parameters on the same screen: channel power, MER, CBER, VBER, L-band frequency, transponder frequency and channel number.

Let's highlight the features of the TV Explorer II+. It can measure TV and radio signals of all kinds: satellite, terrestrial and cable. It is suitable for FM radio, mobile TV (DVB-H) and for the return channel in cable networks. It works equally well with QPSK, 8PSK, QAM or COFDM modulation. The TV Explorer II+ is really a multistandard instrument. It accepts any TV system: PAL, SECAM or NTSC and any TV standard: M, N, B, G, I, D, K or L.

The TV Explorer II+ covers a frequency range that is continuous from 5 MHz to 2150 MHz. This covers all terrestrial, cable and satellite ranges. Of course, in the case of satellite transmissions, we are not referring to the downlink frequency from the satellite but rather the output frequency from the LNB (L-band). We can either tune the frequency continuously or jump from transponder to transponder. It comes preprogrammed with the transponders of many satellites and, of course, this data can be reprogrammed. It measures signals from 44/45 dBµV to 100/114 dBµV depending on the modulation type. The measured parameters, depending on modulation mode, include: power, BER, VBER, LBER, MER, C/N, noise margin and number of wrong packets.

Of course, the analyzer can measure both DVB-S and DVB-S2 signals. All the different FEC

Transport suitcase takes it all - the meter and all accessories

code rates are supported. For DVB-S2 this would be 1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10 and Auto for QPSK signals and 3/5, 2/3, 3/4, 5/6, 8/9, 9/10 and Auto for 8PSK signals. If you also deal with analog signals, you'll be happy to know that you haven't been left in the dark with the TV Explorer II+. It can measure signal level, C/N, video-audio ratio, FM deviation and demodulation (the last two are for classical terrestrial/cable signals).

We can't emphasize enough the importance of the spectrum analyzer in this meter. Not only can you examine a signal without knowing any channel frequencies, but you can also detect all the unwanted signals that may be present in a network because of interference. The frequency span is selectable from 16 MHz to full band and the vertical range is adjustable in steps. Except for measurements, the meter can display the video of a TV signal regardless if it is analog or digital. For digital signals, you can view all free-to-air MPEG-2 channels. It is also possible to receive scrambled channels as long as the proper CAM with smartcard is inserted into the CI slot located on the rear panel of the meter. This is a really unique feature; not many other meters can say they have this. Please note that the meter can not process MPEG-4 streams. In order to view MPEG-4 FTA channels, a suitable MPEG-4 to MPEG-2 conversion module needs to be inserted. However, the meter can measure all DVB-S2 signals even if they carry MPEG-4 streams. The additional module is only required to see the video of a channel.

Everyday Use

The meter was delivered from Promax in a very large package. We were surprised to discover that so many accessories were included. The box included a very practical carrying bag, a protective suitcase (both with the shoulder straps), an external power supply with a power cord, a car power adapter, a USB cable, a 10 dB signal attenuator, connector adapters and a USB memory stick with PC software to control the instrument and store the results.

The largest component on the front panel is the 16:9 LCD display. Underneath there are twelve control buttons. From left to right in the top row the buttons show the video of the channel, set the power for the LNB, show measurement results, show the frequency spectrum, switch between satellite/terrestrial mode and switch between digital/analog mode. In the bottom row from the left the buttons access image and sound properties, DiSEqC commands, utilities/setup, antenna alignment mode, transponder or frequency tuning and transponder identification. If you had any doubts, yes, the TV Explorer II+ can send any DiSEqC command 1.0, 1.1 or 1.2. The identification of a satellite is based on the information transmitted from a transponder in the NIT table. If only this information is transmitted (and this depends on the configuration of the provider's headend), there should be an orbital position and network provider name. So, for example, the Explorer may show us: 13E, ABSat.

▲ Meter with accessories

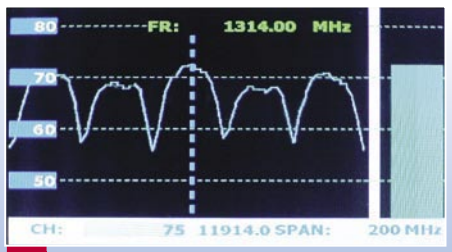
Four arrows are used in spectrum mode to conveniently set the frequency span and the reference level (moving the spectrum up or down). They can also be used when in the menu to travel among different items and options. The tuning knob is used for moving the marker when in spectrum mode, moving the highlight in the menu or changing the transponder/channel number. Lastly, there are three status LEDs and a luminosity sensor on the front panel. The LED's indicate that external video (supplied by the Scart connector) is playing on the screen, that an external device (LNB) is powered and that the battery is being charged. The sensor adjusts the brightness and contrast of the display and helps to conserve battery power. The battery can power the instrument for about 4.5 hours continuously. But only 3 hours are needed to charge it to 80%.

The F connector is situated on the top side panel. Included in the package are suitable connector adapters (F to BNC and F to DIN). The power supply socket is located on the right side panel; there's also a small hole used to reset the unit. We did not have to use the reset feature; the software functioned properly throughout the entire test. On the reverse side is the Scart connector. It can be used to send the LCD video and audio to an external monitor or TV set or it can accept an incoming video/audio signal for display on the LCD.

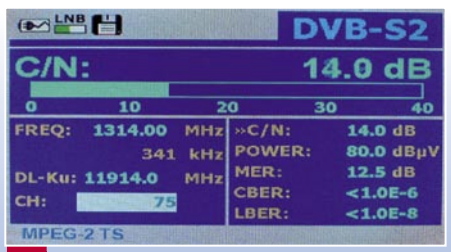
The rear panel sports the CI slot for use with a CA module plus there's also a USB port so that the meter can communicate with a PC. The whole case is enclosed in protective grey rubber to help protect the meter should it bump into a satellite mast or some other hard surface.

As we mentioned before,

Spectrum analyzer



Antenna alignment



Carrier to Noise ratio measurement

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we've already had some experience with the excellent Prolink-4C Premium meter. Because of this, we didn't really expect too many surprises with the TV Explorer II+. But we were wrong! It not only includes all the functions of its older brother, but comes with a few more. We mentioned the DVB-S2 measurements, but there are also the I-Q constellation diagrams for DVB-T/H, DVB-C, DVB-S and DVB-S2 and special test functions for measuring distribution networks with the help of RP-250 and RP-080 signal simulators.

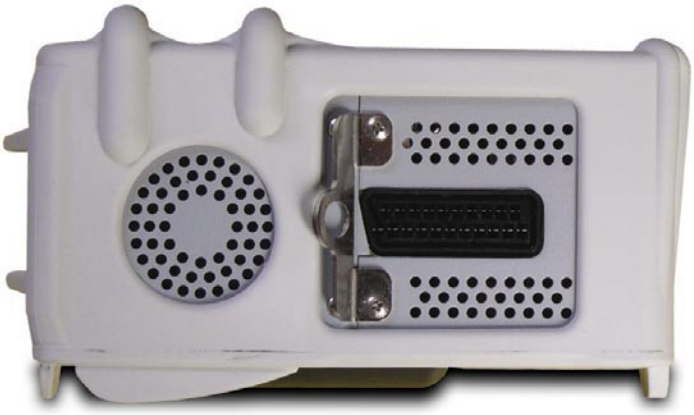
However, the most striking difference between these two meters except other than the size and weight is the ease of use. While the Prolink-4C Premium was quite ergonomic, the TV Explorer II+ could probably be used as a reference design for all other similar instruments. We found the operation of all of its controls to be intuitive. In order to see the selected polarization and sub band in many other instruments, you have to enter the L-Band frequency and set the LNB voltage and 22 kHz signal presence. The TV Explorer II+ allows you to jump from transponder to transponder ordered by frequency while automatically setting the proper voltage and 22 kHz signal. Of course, this is possible since the transponder lists are stored in the meter's memory.

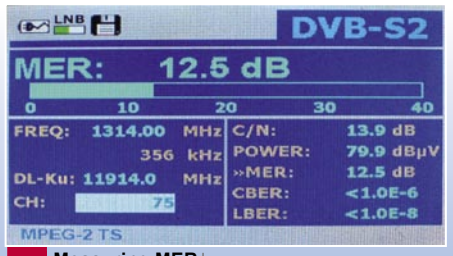
Despite the exceptional internal complexity of the instrument and its wealth of features and functions, we only had to refer to the user manual occasionally. Naturally, if you want to take full advantage of all of its features, it would be a good idea to read the user manual from cover to cover. It has 85 pages full of pictures and is written in Spanish, English and French. Its content is easy to follow thanks to its logical layout; it is easy to quickly find the information you need. There's also a Quick Reference Guide for those who want to get started right away.

We used the TV Explorer II+ for the most obvious task – aligning a dish. Its large display, fast response and good measurement resolution make this a simple task. First, we switched to the antenna alignment mode. The display showed the spectrum with a high sweep rate and two vertical bars on the right side. The left bar showed the maximum value that was recorded within the last few seconds while the right one showed the current level. This is somewhat similar to the volume level meters found in good quality audio equipment. Additionally, there is an audible signal with a pitch that rises when the signal level goes up.

After arbitrarily setting the elevation of the antenna, we moved it steadily from left to right and back again trying to locate some spikes on the spectrum analyzer graph and peaks on the bars. This proved to be unsuccessful so we changed the elevation and repeated the left-right movement. Once we observed a signal presence, we stopped. Next we wanted to find a maximum level. By delicately pushing and pulling the top, bottom, left and right edges of the dish, we discovered how much of a fine adjustment was still needed. After correcting azimuth and elevation we achieved an almost maximum signal level reading.

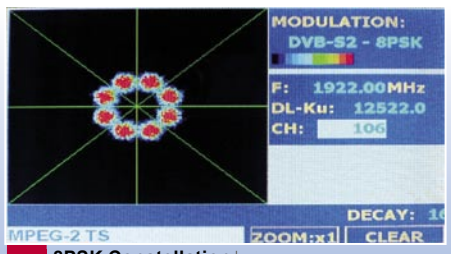
But what was the satellite we had just aligned to? To find out we switched to normal spectrum and adjusted the marker to one of the digital transponders. Digital transponders are more "squared" in that they have flat tops. Analog transponders have more of a bell shape. We had two possibilities. Because we had preset the channel frequency plan to the desired satellite (Astra 19.2° E) and switched the tuning to transponder zapping mode, we could use the tuning knob and see if the marker is jumping from the center of one transponder to the center of the next transponder. Unfortunately, the





Measuring MER

QPSK Constellation



8PSK Constellation

marker did not jump to the centers of the transponders so we switched to continuous tuning (smooth frequency changing) and moved the marker to the center of a digital transponder. After pushing the satellite identification button, we discovered the dish was pointing to 13° E. As it turns out, we managed to find the Hotbird satellite instead of Astra.

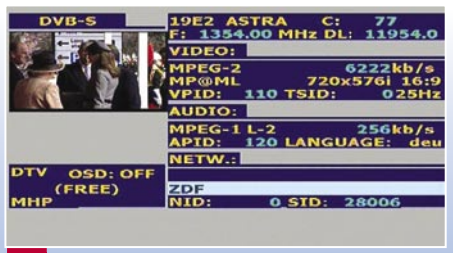
Because our goal was to align the dish to Astra 19.2° E, we knew that we needed to move the antenna to the east. We started moving and after a moment noticed another peak in the signal level. It must have been Eutelsat W2 16° E. We continued moving and arrived at a stronger signal a bit further to the east. After switching to transponder zapping mode, we could see that the marker was now always in the middle of the transponder spectra. We confirmed that it was Astra by identifying the satellite again. This time we switched to channel watching mode. In 2 - 3 seconds we were watching the channel video. We played for a while tuning between transponders and channels within a transponder. Everything was working; we were watching the Astra 1 satellite at 19.2° E.

But we were not finished yet. Next we wanted to precisely adjust azimuth, elevation and LNB position in the holder (skew). To do that, we switched to C/N measurement mode. We adjusted all three settings in small steps to get a maximum reading. This can also be done using MER measurement mode. If you prefer to tune for minimum rather than maximum, you can use CBER mode. VBER is not that useful for alignment because of its very sharp reaction.

We especially liked the C/N readings when adjusting the skew of the LNB in its holder. Even a slight turn was immediately noticeable by a change in the C/N thanks to its high measurement resolution of 0.1 dB. The perfect antenna alignment; it doesn't get easier than this. Thanks to its large display, you can even put the TV Explorer II+ on the floor/ground and still be able to see the results and perform an antenna adjustment. The reason is that the display is made in transflective TFT technology. Thanks to this the display brightness is really high and it is easy readable even outdoors. Actually, the Explorer II+ is the only meter on market using this highly user-friendly technology.

The meter also worked well in more complex antenna systems that involved DiSEqC switches and motors. However, for efficient operation, the user must be familiar with DiSEqC commands (which command does what). After tuning to the satellite signal in spectrum analyzer mode, only one button push was needed in order to watch the video of the first channel in the multiplex. We could also switch to all the other channels in the multiplex and at the same time get information on the video/audio PID's and the actual resolution and bit rate.

We also tested the meter with analog cable TV cable signals and managed to do that without any problems.



TV Channel analysis

Showing channel video

DISEqC commands

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Expert Opinion

\+

The TV Explorer II+ is an amazingly versatile and ergonomic instrument for a professional installer. It is excellent for setting up and maintaining satellite/terrestrial antennas and their signal distribution networks. The instrument is also a full featured tool for examining analog or digital cable networks connected to headends. It can even be used to check FM radio or DVB-H signals! It's TFT display is readable also in bright sunlight.

Jacek Pawlowski
TELE-satellite
Test Center
Poland

\-

None

TECHNIC DATA

Manufacturer	PROMAX Electronica S. A., C/ Francesc Moragas, 71, 08907 L'Hospitalet de Llobregat, SPAIN
Tel	+34-932-602-000
Website	www.promax.es
Email	promax@promax.es
Model	Promax TV Explorer II+
Function	Universal Satellite Signal Meter and Analyzer
Type of signals processed	Analog TV terrestrial/cable and satellite, DVB-S, DVB-S2, DVB-C, DVB-T, DVB-H, FM Radio
TV systems	PAL, SECAM, NTSC
TV standards	M, N, B, G, I, D, K and L
Tuning range	5 to 1000 MHz (terrestrial) and 950 to 2150 MHz (satellite)
Measured parameters for DVB-S (QPSK)	Power, CBER, VBER, MER, C/N and Noise Margin
Measured parameters for DVB-S2 (QPSK/8PSK)	Power, CBER, LBER, MER, C/N and Wrong Packets
Constellation diagram available for:	DVB-T/H, DVB-C, DVB-S, DVB-S2
DVB-S signal range	44 dBµV to 114 dBµV, 2 to 45 Ms/sec
DVB-S2 signal range	44 dBµV to 114 dBµV, 2 to 33 Ms/sec (QPSK) and 2 to 30 Ms/sec (8PSK)
Spectrum Analyzer (satellite range)	Input: 30 dBµV to 130 dBµV Span: Full – 500 – 200 – 100 – 50 – 32 – 16 MHz selectable
Monitor	transflective TFT 6.5 "
Aspect ratio	16:9, 4:3, Auto
External units powers supply (e.g. LNB)	5/13/15/18/24 V, 22 kHz: 0.65 ± 0.25 V
Internal power supply	7.2V 11 Ah Li-ion Battery 4.5 hours of continuous operation
Recharging time	3 hours to 80%
External power supply	12 V, 30 W
Operating temperature	5 to 40° C
Humidity	80% (up to 31° C) decreasing linearly to 50% at 40° C
Dimensions	230 x 161 x 76 mm
Weight	2.2 kg

What do all these acronyms mean?

QPSK *— phase modulation used in DVB-S and DVB-S2 transmissions. 4 phase angles are used.*

8PSK *— phase modulation used in DVB-S2 transmissions. 8 phase angles are used. If used instead of QPSK, more data can be sent in the same bandwidth.*

QAM *— phase/amplitude modulation used in DVB-C transmission. Different number of phase angles and amplitude levels are used depending on the mode: 16QAM, 32QAM, 64QAM, 128QAM or 256QAM.*

COFDM *— complex modulation used in DVB-T optimized to be insensitive to the interference typical for terrestrial TV.*

L-Band *— frequency range 950-2150 MHz to which all satellite signals are converted to by an LNB (Ku-, C- or S-band). This frequency range is used to transmit satellite signals via a cable from an LNB to a satellite meter and/or satellite receiver.*

MPEG-2 *— the older compression method used for digital video in DVB. Still widely used for standard definition channels.*

MPEG-4 *— the newer more efficient compression method for digital video in DVB-S2 and DVB-T/H.*

C/N *— carrier-to-noise ratio expressed in dB. One of the basic terms used to assess signal quality. The higher the C/N, the better the signal. In practice, it is difficult to measure it correctly because it is not possible to switch the transponder off and measure only the noise. The meter tries to find a noise level next to the transponder signal and uses it as a reference. The readings may be too pessimistic.*

BER *— bit error rate: a measure of digital signal quality telling us how often we have a false bit in an incoming data stream. Thus, $3x10^{-4}$ means that in 10,000 bits we have 3 false bits (0's instead of 1's or vice versa). The lower the BER the better. For example, $4x10^{-5}$ is better than $1x10^{-4}$.*

CBER *— channel BER. Bit error rate before the forward error correction technique is used.*

VBER *— Viterbi BER. Bit error rate after the Viterbi forward error correction technique has been applied. VBER is always much better (lower) than CBER. Signals with a VBER = $1x10^{-4}$ are regarded as Quasi Error Free (QEF). It is marked on the bar indicator scale when the TV Explorer II+ is in VBER measuring mode.*

LBER *— BER after Low Density Parity Check. This is an equivalent of VBER for DVB-S2 signals.*

MER *— modulation error ratio. The relation between the average power of a DVB signal and the average power of noise present in the constellation of a signal. It is "a digital equivalent of signal-to-noise" ratio in analog transmissions. So, the higher the MER the better (like C/N). The TV Explorer II+ also shows the noise margin (in dB) when in MER measurement mode. We should have at least a 3 dB noise margin to ensure good reception even in bad weather conditions.*

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Arion AF9400PVR HDMI

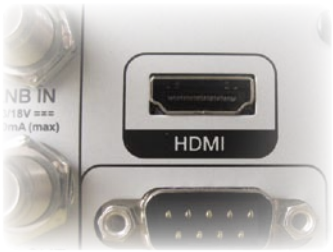
Perfect Picture Quality Thanks to the Scaler

The term HDTV has been on everyone's mind for quite some time now and the countless plasma and LCD TV owners are patiently waiting for a breakthrough in this new technology. In Europe though the reality still seems to be that only a handful of HD transmissions are available and that most of the channels are still only in SD format. If you want to watch an SD program on a large diameter TV screen, you'll quickly discover that this may not be the best solution.

Info Bar |

The South Korean company Arion thought about ways in which they could help with this problem and came up with the idea to develop a PVR receiver with a built-in Scaler. The Scaler's job is to take the incoming signal and increase its resolution by interpolating the missing pixels such that this increased resolution does not contain any raster, something that is unavoidable with a simple increase in resolution.

The cabinet of the AF9400PVR HDMI is simple but elegant. On the front panel you will find an extremely easy to read VFD display as well as a fold-down flap behind which are a set of eight buttons to control the receiver should the remote control go missing. This flap also hides two CI slots that can be used with all the typical modules (Irdeto, Seca, Viaccess, Conax, Nagravision, etc.). A pair of LEDs on the left and right side of the housing indicate the receiver's operational status.



The excitement began to build when we took a look at the rear panel. In addition to a satellite IF input and looped-through output for both of the tuners, we also found two Scart connectors, an S-Video output and naturally an HDMI jack to connect the receiver to a plasma or LCD TV. On top of that there are also three RCA video and stereo audio output jacks, a programmable 0/12V output, an RS-232 interface, a USB 2.0 output to link with a PC, an RF modulator output and, of course, an optical digital audio output. To round out the entire picture, there's also a main power switch.

The included remote control is ergonomically designed and sits nicely in your hand with buttons that are clearly labeled. As a special bonus, Arion also included a second, smaller remote control with limited functions; an interesting idea, because it would make it easier for those less technically-inclined family members to use their new receiver.

Especially noteworthy is the detailed user manual; it is logically written and explains every function of this receiver in easy to understand steps.

Everyday Use

The new Arion receiver is definitely multi-lingual in terms of the on-screen menu languages. Next to English, German, French, Italian, Spanish, Greek, Hungarian, Dutch, Farsi, Polish and Portuguese, the user can also choose from Romanian, Russian, Swedish, Serbian and Turkish.

The video signal can be delivered via Scart in RGB and CVBS modes. Additionally, multiple modes are available for the 4:3 and 16:9 screen sizes. Along with the PAL standard, the receiver can also handle NTSC signals and can even be set to automatically switch between the two standards.

Since this is a twin tuner PVR, both tuners can be operated in three different modes. In Loop Mode, only one satellite signal source is needed since the input signal is looped-through from the first tuner to the second tuner. In this case, while one channel is being recorded, not all of the remaining channels will be available on the second tuner. In Twin Mode, two identically switched satellite signal

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ARION AF9400PVR HDMI
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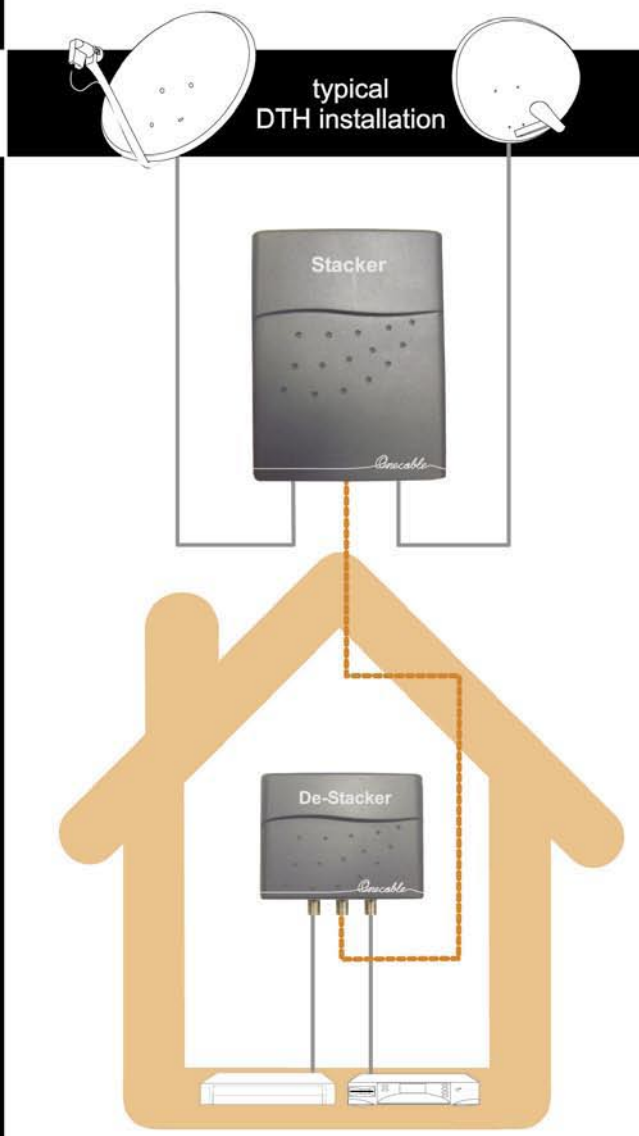
* using RG6/CT100 type cable



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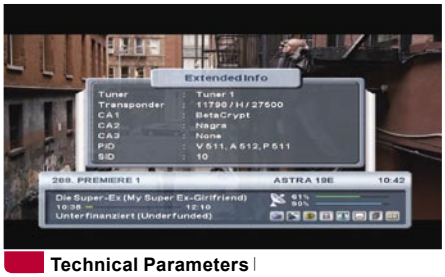
sources are routed to both tuner inputs so that every channel is available on both tuners at the same time. The T1/T2 Mode tells the AF9400PVR HDMI that both tuner inputs will be occupied but with independent satellite signals. In this mode, not every channel is available on both tuners.

A motorized antenna (DiSEqC 1.2 or 1.3/USALS) can be set up directly in the installation assistant. The next step displays the list of 54 satellites that unfortunately isn't quite up to date.

During the installation, it is actually quite easy with a single push of a button to set up the LNB and DiSEqC parameters for each individual satellite. In addition to the two motor control protocols, the Arion AF9400PVR HDMI also supports DiSEqC 1.0 and 1.1 and is therefore capable of handling multi-feed reception using up to 16 LNBs. And unlike many receivers from other manufacturers, this new Arion box actually comes with a programmable 0/12V output that can also be set up for each individual satellite.

Expanded EPG Info



Technical Parameters

EPG

Main Menu

After a brief push of the red function button, the Arion begins to scan our selected satellites and completed scanning our 110 transponders in a blinding 4 min 20 sec.

The Main Menu is divided into six large areas: in the Channel Search menu, multiple settings for antenna configuration and satellite data can be taken care of. The receiver offers an automatic scan, a manual scan and an expanded search with manual PID entry. Of course, a network scan is also possible as is scanning for only free-to-air (FTA) channels.

In the Channel Editing menu, everything is geared towards organizing the channel and transponder lists. As many as 8000 channels can be stored and in this menu they can be deleted, moved, renamed, locked out with a PIN code or transferred into one of four Favorites lists.

For owners of plasma and LCD TVs the menu settings become especially interesting: here you can, among other things, set up the HDMI output signal to your personal needs. In our tests using a Technisat LCD and a Pioneer plasma TV, it quickly became clear that this step was absolutely necessary in order to get optimal picture quality. Next to brightness, contrast and sharpness, you can set noise suppression to three different levels.

The Scaler works in three different resolution modes: 576p, 720p and 1080i. If you still intend to use the two Scart jacks despite having the HDMI outputs, the same menu also carries all of the necessary setting possibilities. The receiver provides the video signal through the Scart outputs in CVBS and RGB. An S-Video output for a projection TV is available on its own output jack; unfortunately, YUV is missing.

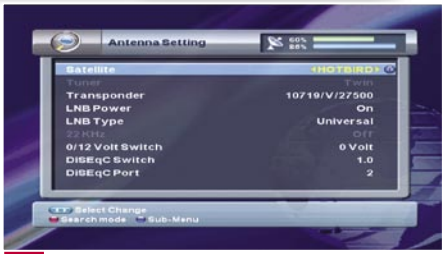
The remaining three categories deal with the CI modules, the hard drive and subsequent decryption of previously recorded programs plus, of course, the extra accessories integrated by the manufacturer such as a calculator, calendar and various games.

The importance of the subsequent decryption must be stressed. The receiver can at any time take a prerecorded program stored on its hard drive and automatically copy and thereby decrypt it. The disappointment that used to be associated with recorded programs that could no longer be decrypted because the provider changed the encryption codes is now a thing of the past. As long as the CI module supports this function, the receiver can simultaneously take two programs and store them decrypted. In a test with an Alphacrypt CI module, it worked perfectly.

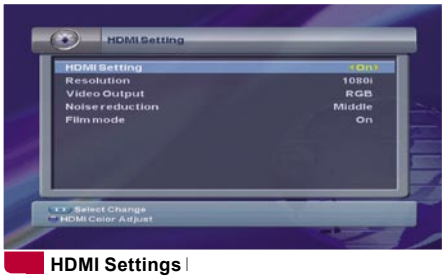
The Arion AF9400PVR HDMI is available from the manufacturer with a pre-installed hard drive or without one so that you can select your own hard drive. Even though the hard drives installed by the manufacturer are specifically designed for home entertainment use and thereby are very quiet, it is also possible for the hard drives to be automatically turned off after a user-settable time.

After this extensive journey through the many different settings possibilities of this receiver, we naturally wanted to take a closer look at its operational features. What caught our eye was its ability to record four programs simultaneously.

Since the receiver has only two tuner inputs, the four programs that are to be recorded must naturally be on only two transponders. Based on the number of recordings, the receiver also takes those channels that can no longer be received and deletes them from the channel list. Recorded pro-



Settings for Every Satellite



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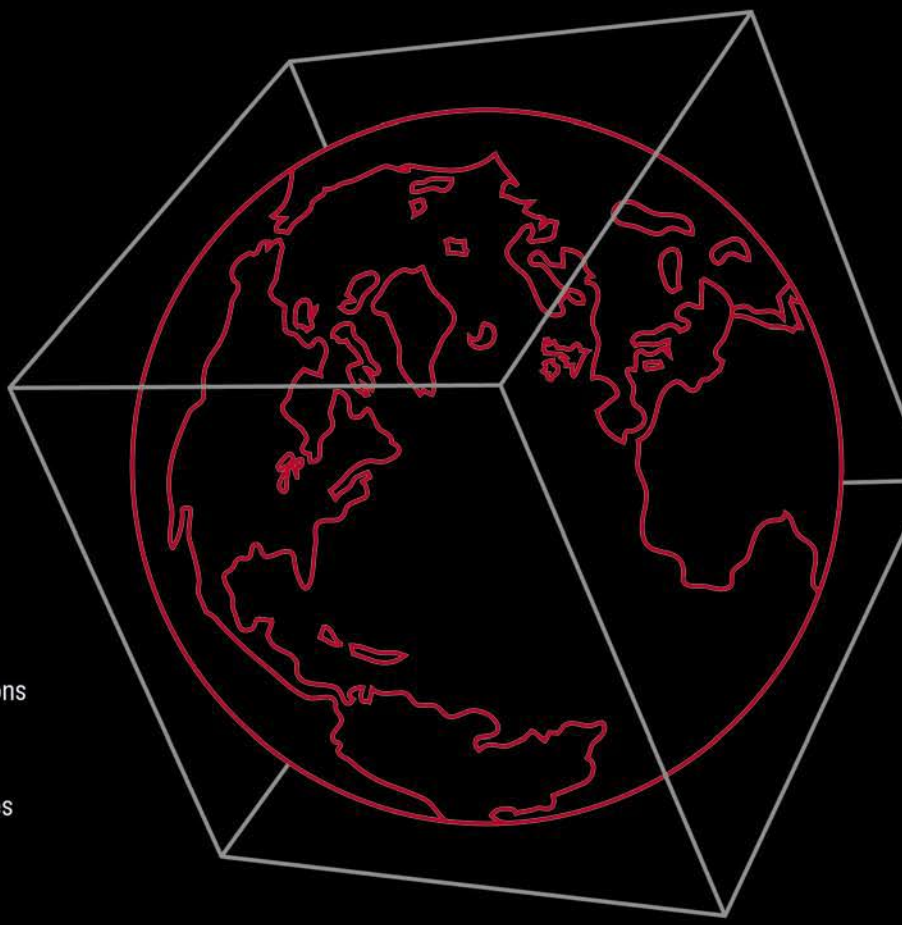

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grams that have already been viewed are marked with their own symbol. The receiver can also identify the spot where a playback was stopped so that a single push of a button is enough to restart the playback from where it was left off.

The detailed channel list can be activated by pushing the OK button. With the help of the function buttons, the list can be arranged by tuner and FTA/CAS and also be sorted alphabetically. Thanks to the multi-picture function, you can get a quick overview of currently running programs on 2,4,9,10,13 or 16 different channels.

When switching between channels, an Info bar appears momentarily and displays information on the current and upcoming program as well as specific channel data (teletext, subtitle, Dolby Digital audio, etc.) and information on the satellite in use. A second push of the OK button displays expanded EPG data on the current program as long as this information is made available by the provider. Another push of this button displays technical parameters for the channel such as frequency, polarization, symbolrate and PIDs.

Arion's EPG is generally quite good; it is logically laid out, is quickly displayed and shows all information correctly and neatly sorted. Timer entries can be directly set up through the EPG.

The Arion manufactured tuner is very signal sensitive and had no trouble dealing with the weaker signals on BADR 26° east or NILESAT 7° west. The receiver also mastered our SCPC test; the 2-45 Ms/sec. spec given by the manufacturer was right on the money. Additional tests at some of our other locations also came back positive. It became quickly clear that the extremely sensitive Arion tuner is a step ahead of the competition and even managed to deliver a surprisingly good signal even though reception was just at the threshold level.

As a manufacturer, it is almost a must to equip your PVR receiver with a USB 2.0 or network interface in order to be on the same level in the marketplace although the film industry and some PayTV providers might not be too happy with this. Arion did not miss the boat here either; in fact, they went the extra mile and installed a chipset that actually takes full advantage of the capacity of the USB 2.0 interface. In just about three minutes a 2GB recording was transferred from receiver to PC and this without needing any supplemental software since the receiver's hard drive is recognized by Windows as a storage device. Arion also offers a free settings editor that lets you easily manage the channel and favorites lists on your PC.

Since Arion is continuously concerned with the further development of their receivers, new software is regularly made available that can be comfortably downloaded via satellite or copied from a PC to the internal hard drive via the USB interface and then activated via the Data Manager. This is also possible for the channel list; it can be downloaded in the blink of an eye and without the use of the serial interface. Uploading and backing up of the channel list is only possible serially.

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Expert Opinion

Thomas Haring
TELE-satellite
Test Center
Austria

+

The Arion AF9400PVR HDMI is a solid and easy to use receiver that did not reveal any problems in our tests. Thanks to the integrated Scaler, normal SDTV channels can be displayed in outstanding quality. Even those channels that because of cost issues have a less than average picture can have improved video quality. If a channel transmits in higher quality, the Scaler makes viewing naturally that much more fun. Especially noteworthy is, besides the extremely fast USB 2.0 interface, the possibility to record four channels at the same time.

-

The satellite and transponder lists could be more up to date.

TECHNIC

DATA

Manufacturer	Arion, South Korea
Tel	+82 (0) 31 361 3000
Fax	+49 (0) 31 361 3099
E-Mail	info@arion.co.kr
Model	AF9400PVR HDMI
Function	Digital Satellite PVR Receiver with built-in Scaler
Channel Memory	8000
Satellites	54
Symbolrate	2~45 Ms/sec. (in our Test starting at 2 Ms/s)
SCPC Compatible	yes
USALS	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
Scart Connectors	2
Audio/Video Outputs	3 x RCA
UHF Output	yes
0/12 Volt Output	yes
Digital Audio Output	yes
EPG	yes
C/Ku-Band Compatible	yes
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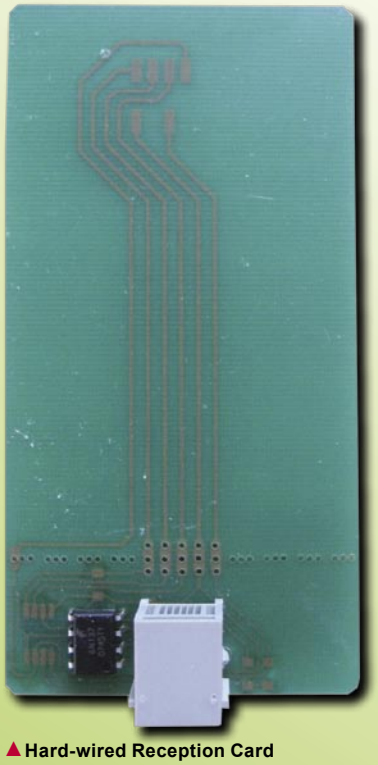
▲ **Hard-wired Control Unit for max. 4 Cards**

To receive PayTV throughout the entire house, there were up until now only three more or less practical solutions: you either ran coax cable to every room in the house and built up your own cable network or you used video transmitters to distribute the picture to multiple TV's. The main problem with these two solutions is that the same channel always ended up on all the TV's. The third option would be to have more than one PayTV subscription although for most consumers this alternative is out of the question.



▲ **Hard-wired Reception Card**

If you think about it, thanks to new products such as the Laser LNB from Invacom introduced in the previous issue of TELE-satellite we can assume that satellite, cable or IPTV signals will be made available in every room in the house at some point in the future with the help of modern fiber optic technology. This makes the problem of PayTV decryption on multiple TV's all the more important.

One solution would be card splitters that make it possible to use one card to supply multiple TV's. The company CardSplitter sent us a package for this test report with an assortment from their product line:

- Wireless CardSplitter Type B for Viaccess, Conax, Cryptoworks, Mediaguard and Irdeto cards
- Hard-wired CardSplitter CSPRO-8 for Irdeto cards
- Hard-wired CardSplitter CSPRO-4 fur Viaccess, Conax, Cryptoworks and Mediaguard cards

Also included was, of course, an assortment of reception cards (wireless and hard-wired) as well as the necessary antennas.

Even while unpacking we could see that all the products were quality-made and left us with a good impression. The least expensive version that can handle a maximum of four cards was delivered without a housing; a housing is only available with the 8 to 16 output versions.

A 6~9V power source is needed although the control box also accepts 12V. A power supply was not included by the manufacturer.

CardSplitter CSPRO-4/8

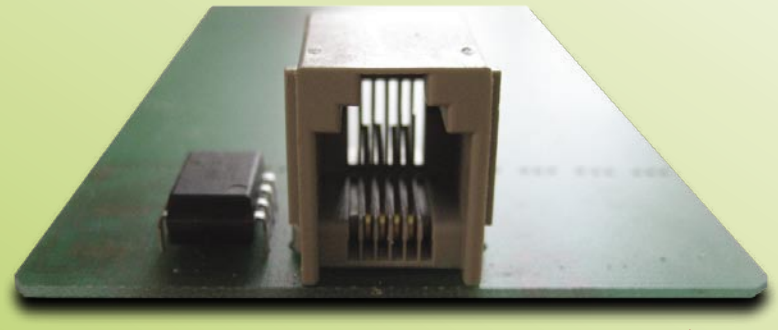
First of all, the hard-wired version of the CardSplitter becomes interesting when the end units aren't too far apart and are actually quite close to each other. A classic example would be a second receiver with a built-in video recorder that would let you record one PayTV channel while watching another one live.

Since two receivers would be needed for this task, the supplied card could be split for both units. The CSPRO series is available with connections for 4, 8 or 16 reception cards. Don't let the pictures fool you; every connection on the control unit can handle two reception cards. Even the smallest version with only two jacks can handle four cards independent from each other.

Everyday Use

No initialization or other similar preparations are necessary before using the CardSplitter for the first time. The user must merely insert the PayTV card in the control unit and connect it to a proper power supply. Thereafter, the connection between the reception card and the control unit is made possible with the help of the included cable.

We first chose to play with a Cryptoworks ORF (Austrian TV) card that the control unit recognized without any problems. The red LED on the front panel went out to signify this. Next we connected the cable to two receiver cards and placed these together with the matching CI modules into two receivers and waited patiently for the decryption of the PayTV channels. But they remained dark and both receivers informed us that invalid cards were being used. We contacted the manufacturer who already knew of this problem. He explained to us that the reception cards are totally blank when first used in the receiver and that the ATR must be transferred to the card's EPROM. This only takes



Reception Card Connector ▲

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* Record Video in MPEG format directly over your LAN Home Network to the hard disk of your Personal Computer (Windows). The needed Software Tool is included on CD Rom.
Before you can use the IP PVR function an automatic software upgrade via the internet has to be made to the Set-Top-Box in order to install the latest firmware version to the Set-Top-Box (Internet connection required).

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http://www.matrixxsystems.de

Distribution Switzerland
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Bachstr. 42
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http://www.telanor.ch

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Münchner Bundesstraße 121a
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a few milliseconds but for some receivers this is too long and thus they identify the card as invalid since the ATR could not be read.

To get around this problem, the card merely needs to be removed from the receiver momentarily and then reinserted in the CI module. Since the ATR is already available on the card and also stored there, it will from then on be recognized without any problems.

The tip from the manufacturer was right on the money; after we momentarily removed both cards from the CI module and reinserted them, the decrypted ORF picture appeared on both receivers.

Hard-wired Control Unit for max. 8 Cards

Because of this first success, we became a little more daring: we took four Cryptoworks modules and some receivers out of TELE-satellite stock and built four CI receivers for our test purposes. We quickly connected the four reception cards supplied to us by the manufacturer and, as expected, the four CI receivers did not disturb the CardSplitter in any way. Two colleagues began channel surfing at high speed yet the CSPRO mastered this test as well without any noticeable decryption delay.

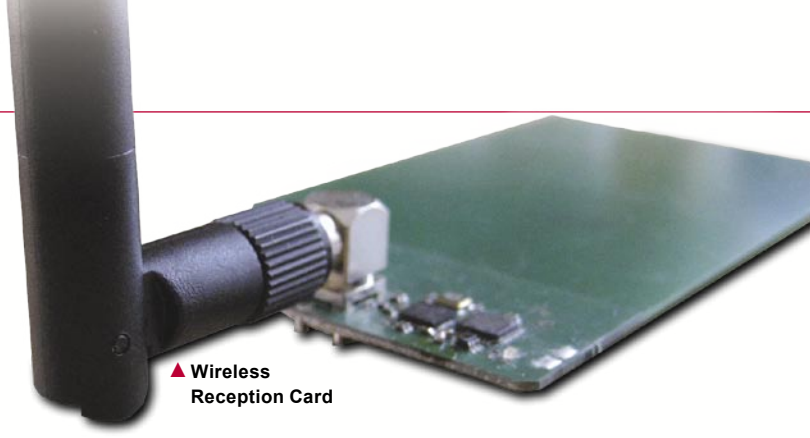
Tests using Mediaguard and Conax Smartcards that we also split to multiple receivers were equally successful. Last but not least we also tested a Euro1080 card as well as the Irdeto version; both of these also functioned correctly.

Once the ATR has been written to the reception card, it must be deleted again if another encryption system is to be used. For reception cards that are used with Viaccess, Conax, Cryptoworks or Mediaguard, this is not a problem – the card must first be inserted momentarily in the control unit. Unfortunately, it is not as easy with Irdeto cards; once this CA system has been used, these cards must be deleted on a PC with the help of a card reader. The manufacturer offers a corresponding program on its web site for this purpose as well as precise download instructions.

Wireless CardSplitter

In addition to the hard-wired versions, CardSplitter also offers a wireless version. Compared to the CSPRO, the wireless version can handle five different encryption systems: Irdeto, Conax, Viaccess, Cryptoworks and Mediaguard.

On the front panel are a red LED and a green LED that show the unit's operational status as well as, of course, a card reader. On the top side is the WLAN antenna and on the back is the power connection that would like to be supplied with 6~9V but can also handle 12V.



Wireless Reception Card

Everyday Use

Unlike the hard-wired version, the wireless version must undergo an initialization process before it can be used for this first time. The reason for this is fairly obvious: you really only want authorized cards to be processed and not the entire apartment building.

First the control box is turned on without a card and then the PayTV card to be used is inserted. It is then automatically checked and its reaction time confirmed. This is critical for later use of the CardSplitter since the control unit knows exactly how much time the card needs to react to commands. A constant, slowly-blinking LED signifies that the test is complete and that the card can be removed.

Next, all of the cards are momentarily inserted in the control unit to initialize them, confirm the transmission frequency and read in the ATR. The control unit only serves as a power supply; the transmission of data and other parameters occurs wirelessly.

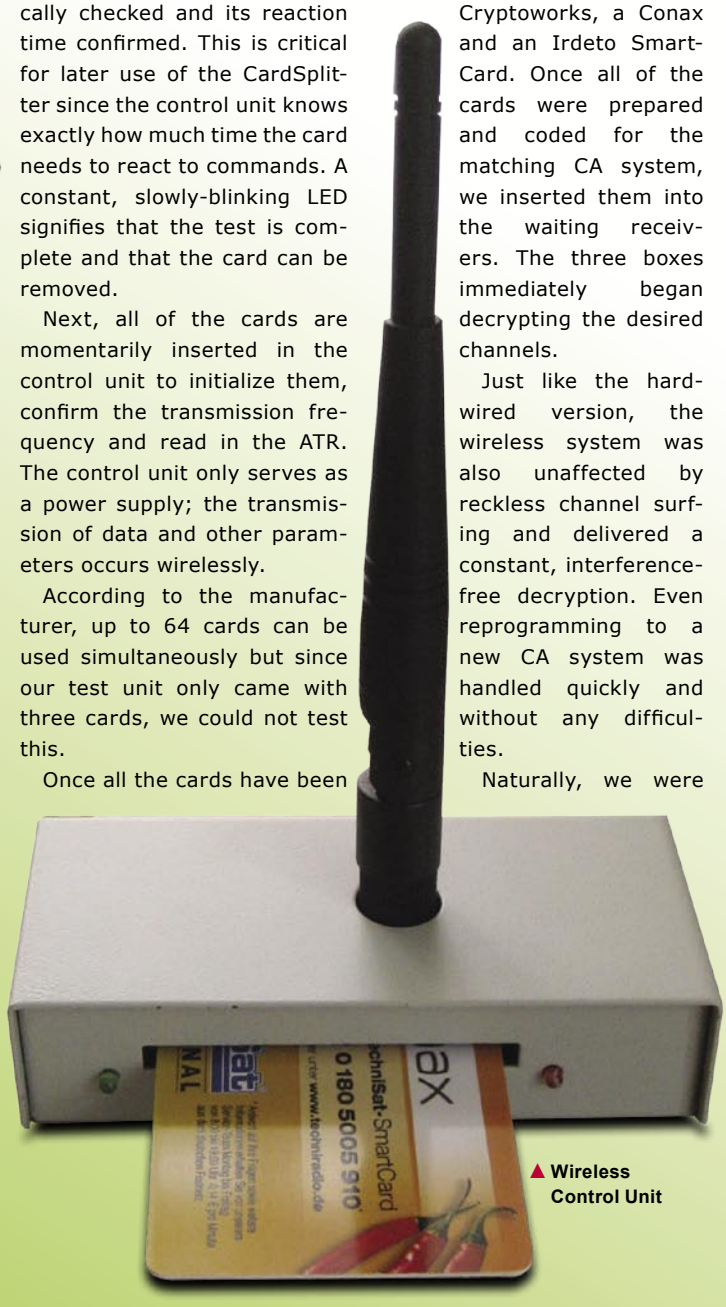
According to the manufacturer, up to 64 cards can be used simultaneously but since our test unit only came with three cards, we could not test this.

Once all the cards have been initialized, it is suggested to lock additional cards out of the control unit so that no additional unauthorized cards can be set up. This is actually quite easy: simply disconnect the power from the control unit momentarily and with the card still inserted reconnect the power. To unlock simply remove the card and power the control unit back up.

Just like the hard-wired version, the wireless CardSplitter also had to prove itself with a Cryptoworks, a Conax and an Irdeto SmartCard. Once all of the cards were prepared and coded for the matching CA system, we inserted them into the waiting receivers. The three boxes immediately began decrypting the desired channels.

Just like the hard-wired version, the wireless system was also unaffected by reckless channel surfing and delivered a constant, interference-free decryption. Even reprogramming to a new CA system was handled quickly and without any difficulties.

Naturally, we were



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■ Hard-wired Splitter System

quite interested in the range of this wireless system and were quite surprised at the results: The reception cards placed on the third floor of our office building functioned effortlessly despite the control unit being located on the ground floor and even through relatively thick walls. Outdoor results were even better; we tested the PayTV signals using the gazebo of a TELE-satellite employee some 300 meters away. The system worked perfectly without any delays or interference.

The modul we tested had a power of only 1 mW; according to manufacturer, soon a model with 250 mW will be released. Future plans include models with 0.5 W and 1 Watts. Even a model with LAN connector is in the pipeline!

This means, signals in urban areas have a range of 100-500 meters while direct, line-of-sight transmissions without any obstacles could have a range of as much as 2 km!

Compared to similar systems from other manufacturers, the products from CardSplitter have far better range. To achieve this, the user must utilize visible receiving antennas on the reception cards. But since these can be adjusted 360° horizontally and 90° vertically, you should surely be able to find a position that doesn't get in the way and yet still delivers excellent reception. Especially practical is the ability to cascade multiple control units so that when serially cascaded the range is extended and when cascaded in parallel the reception capabilities are increased. For our tests we used the appropriate CI module for each CA system; multiple tests with the internal card reader did not result in any problems.

The Internet support forum (English, Greek and Swedish) provided by the manufacturer is also worth mentioning; it offers numerous tips and also quick help should any problems arise.

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Expert Opinion

Thomas Haring
TELE-satellite Test Center Austria

+

The link between control unit and reception cards functioned nicely even with longer distances; distances of several hundred meters is possible out in the open. Inside a building the setting up of a connection between multiple receivers and transmission units was easily possible. Through the card-reader programmed cards you can be sure that no unauthorized access will occur.

The manufacturing quality of the products is quite good as is the support of the various encryption systems.

-

If a few other CA systems such as Nagravision or NDS were also supported, the system would be perfect. The interference put out by the control unit should be reduced.

TECHNIC

DATA

Manufacturer	Decibit, 59/273 M.2, Soi Sukhonthasawat, Ladprad 71, Bangkok 10230, Thailand
Website	www.decibit.com
Distribution	www.splitter.cc
Email	info@splitter.cc
Model	Hard-wired or Wireless Smartcard Splitter System
Supported CA Systems	Irdeto, Mediaguard, Viaccess, Cryptoworks, Conax
Hard-wired Connections	4, 8 or 16 Reception Cards
Wireless Connections	up to 64 Cards
Range	max. 500m in urban use up to 2km direct line-of-sight with higher power models
Power Requirements	6~9V

■ 3 Control Units, 3 Wireless Reception Cards, 6 Hard-wired Cards

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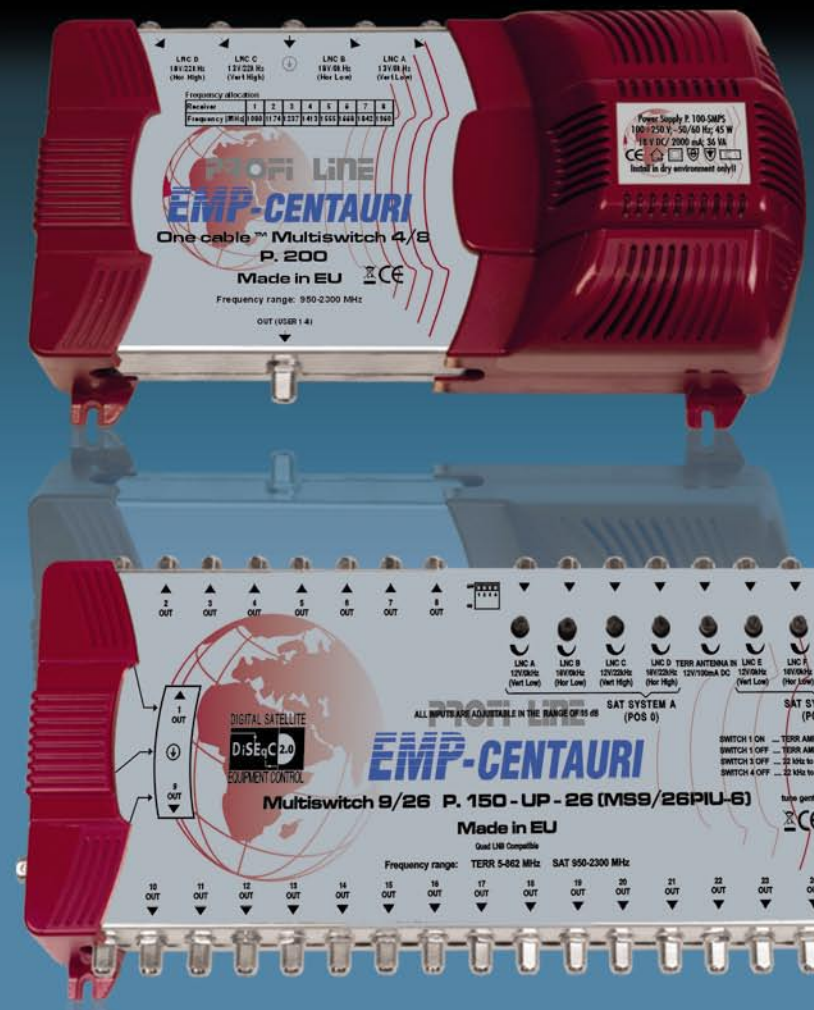

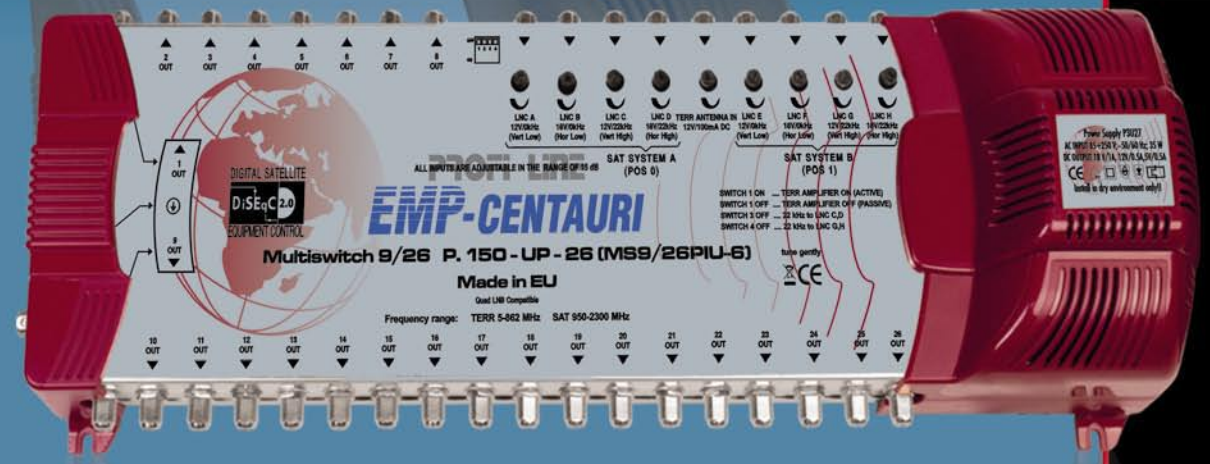

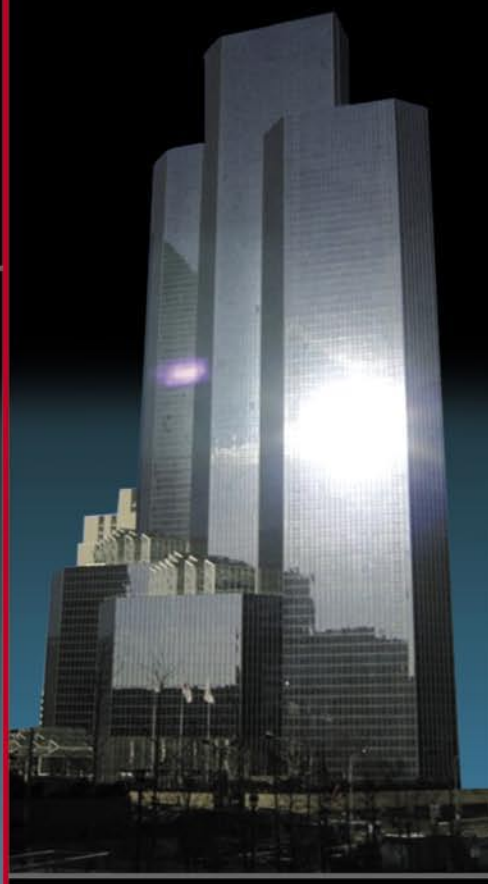

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Nanoxx 9500HD

Busy Manufacturers Still Do Exist

In the last issue of TELE-satellite magazine we introduced the new NanoXX 9500HD. We were so impressed with its craftsmanship and its operational capability that we really had nothing negative to say about it. Some manufacturers would take a test report like that and use it as an excuse to take a well-deserved vacation, but not NanoXX. Despite the high praise received by the 9500HD, their programmers are still working under extreme pressure to incorporate new functions in their box and so just before press time we received word that a new software update was available.

The new software is easy to install: if the receiver is connected to the Internet via a network, one push of a button is all that is needed. You could also download the new software, transfer it to a USB stick and then start the receiver update.

After loading the new software version 02.0.200 without any problems, we looked around to see what changes we could find. Now it is possible to record two programs while watching a third program that had already been stored on the hard drive or you can record two programs and watch a third live or even in time shift mode as long as all three programs are on the same transponder. All of this functioned correctly even when HD programs were involved. The speed of the USB 2.0 connection was more than sufficient for this.

Even hearing impaired viewers will enjoy the fact that the manufacturer updated the recording process so that now teletext, teletext subtitles and DVB subtitles are all automatically recorded and can thus be called up any time a recording on the hard drive is played back.

The playback itself has seen some changes; the NanoXX 9500HD remembers the point where a playback was stopped so that when it is restarted, it picks up right where it left off. An additional function was also added that lets you skip over those annoying commercial breaks with the push of just one button.

To help guarantee that the beginning and end of your favorite program's recording isn't ruined, NanoXX included the ability to add extra recording time at the beginning and end of a program so that every recording is automatically extended.

And while we're on that subject, the latest update also lets you directly program the recording timer for those optional channels such as the German PayTV channel Premiere. To round it all out, users can now manually set the length of the time shift buffer to whatever they need. Even the short bug list was worked on by the manufacturer; in addition to taking care of a problem with hard drives larger than 300GB, a timer bug was fixed, a problem with the channel list was addressed and the operation with the Alphacrypt CI was improved. A few menu entries were also modified and several new function buttons were added.

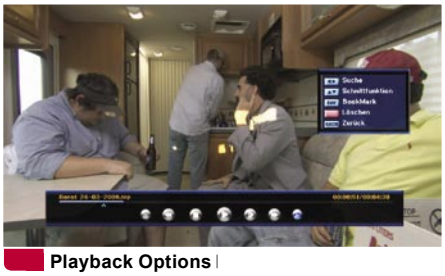
All things considered, this was quite a successful update and, above all, it proves that there are still manufacturers out there that after you buy their product won't leave you standing out in the rain. Instead they go out of their way to continue to improve the product you just bought. We were especially pleased that the Windows FAT32 hard drive formatting problem mentioned in the first test report was addressed by the manufacturer. NanoXX has in the meantime placed a small tool online that lets you take hard dives of any desired size and set them up in FAT32 despite the limitations of MS Windows.

And if, after all this, you think that the manufacturer will sit back and take a coffee break, you'd be wrong. The manufacturer hinted to us that a future update will take the NanoXX 9500 HD and turn it into a full-powered IP PVR machine. We can't wait to see what the future brings.

Two Recordings (even HD) at the Same Time

Ending a Recording |

Setting a Bookmark |


Playback Options |

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TELE SATELLITE AWARD & BROADBAND 06-07/2008
SPAUN SMS 5808 NF
Extremely low noise – as good as a direct connection, and even eco-friendly

SPAUN SMS 5808 NF

Extremely low noise and eco-friendly multiswitch

When it came, it did not look any special. The multiswitch has only 4 satellite inputs (i.e. 1 quattro LNB) and 1 terrestrial and 8 receiver outputs. Just something for one or 2 families if they are comfortable with just one satellite. Of course it looked very professional as all SPAUN switches and had the features we used to expect from them: possibility to connect either quattro, twin or quad LNB's or the standby mode. However as soon as we started the measurements we become stunned. Its noise performance was unbelievably perfect!

But let's start from the beginning. We checked the input power to confirm that this is really an environment friendly device. When all connected receivers are in standby mode, the multiswitch switches off the LNB (or LNB's) and reduces the power down to 3.5 W. We measured that the supply current in standby is 33 mA r.m.s. It means that it consumes 7.6 VA. If we take into account that in the operate mode the power consumption can be even 13 W the standby mode makes sense. It saves us almost 10 W.

OK, so the next step was to select the transponders to use as the test input. They are shown in table 1. As you can see, we chose 3 transponders for every satellite input (VL, HL, VH and HH) located more or less at the edges and in the centers of the subbands. Measuring 12 transponders on 8 outputs takes time but if the multiswitch has any weak point, it can not slip unnoticed.

So what about the tap gain? According to the specification it

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- Toggle to display Post BER and Carrier to Noise (dB)
- DiSEqC switch commands (available from sub menu)
- Symbol rates 2Msymb to 45Msymb
- Frequency range 950 to 2150MHz
- Input impedance 75 Ohms
- LNB Pass / Fail test function
- LNB short circuit protection
- Satellite cable integrity test
- Upgradeable firmware
- Intelligent internal AC charger 100 to 240 V AC
- Automatic fast and trickle charge modes
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- USB lead supplied
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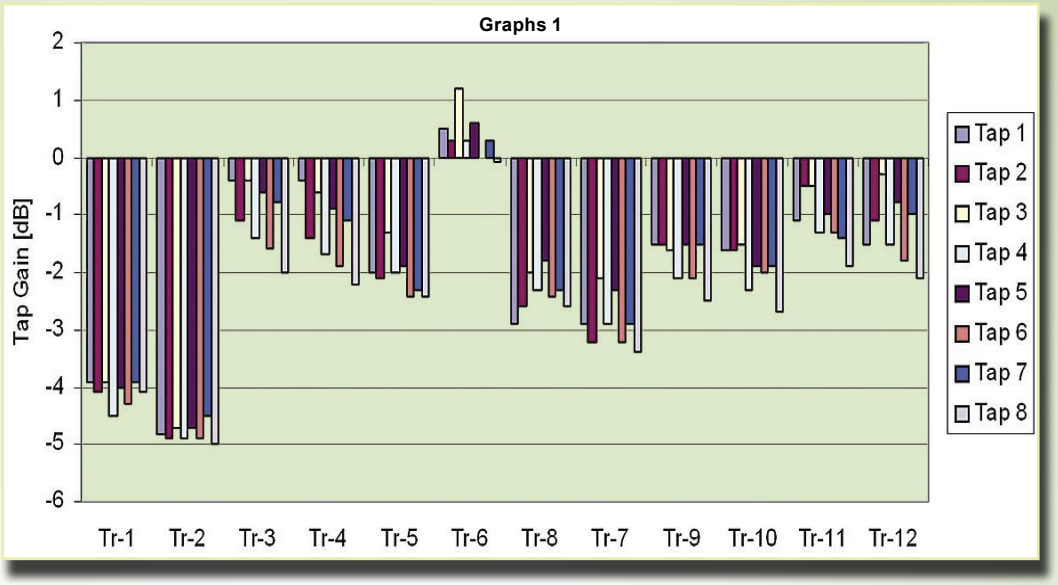
Tr-2	H	10723	HL
Tr-3	H	11296	HL
Tr-4	V	11278	VL
Tr-5	H	11642	HL
Tr-6	V	11662	VL
Tr-8	V	11727	VH
Tr-7	H	11747	HH
Tr-9	H	12092	HH
Tr-10	V	12111	VH
Tr-11	V	12713	VH
Tr-12	H	12731	HH

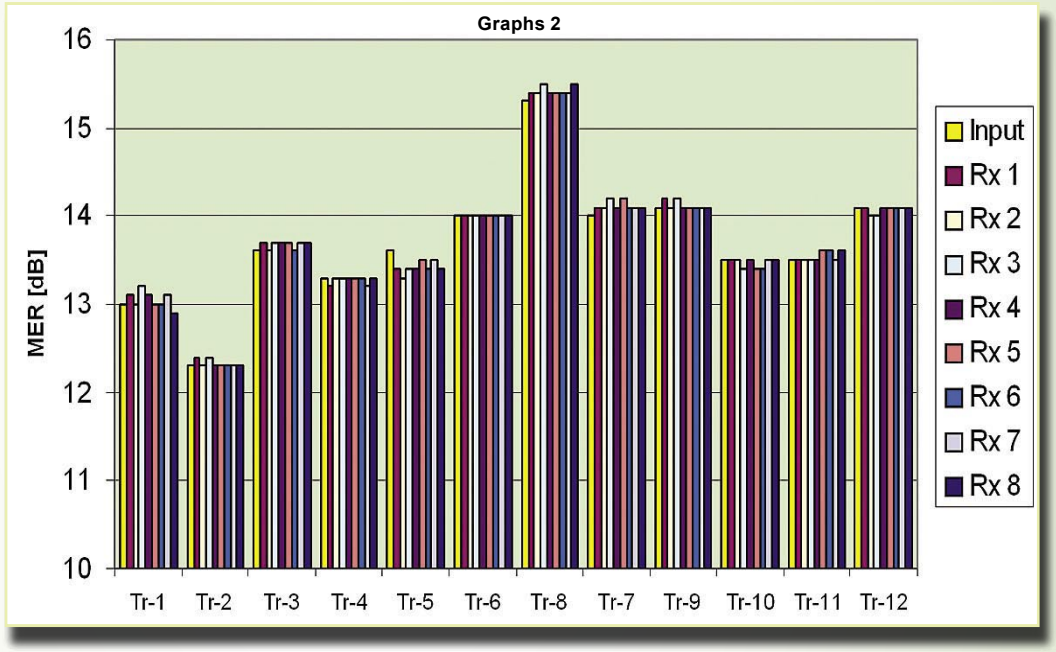
should be within –5 dB...+1 dB. We took the measurements and it was the first nice surprise. As you can see on the graphs (Graphs 1), the actual results absolutely confirm what the manufacturer claims.

Moreover, the differences in the tap gain between the taps are only about 1 dB. It is almost nothing.

Now the most critical test. Many multiswitches deteriorate the quality of the signal. The quality is usually measured as C/N or MER. We decided to use modulation error ratio.

And this was the time we got completely stunned. See the MER graphs (Graphs 2). No difference between the input and all the taps. Signal outgoing from the SMS 5808 NF is exactly as good as the one coming from the LNB! On every tap! There is no need to use any bigger dish because of this multiswitch – your receivers will be getting the signal as good as you were directly connected to the LNB.





Expert Opinion

Jacek Pawlowski
TELE-satellite
Test Center
Poland

\+

Exceptional performance – extremely low noise and good tap gain characteristics. Possibility to use quattro, twin or quad LNB. Standby mode saves our money and is eco-friendly. Very good workmanship.

\-

None

TECHNIC

DATA

Manufacturer	SPAUN Electronic, Byk-Gulden-Str. 22, D-78224 Singen, Germany
Website	http://www.spaun.de
Email	info@spaun.de
Phone	+49 (0) 7731-86730
Fax	+49 (0) 7731-64202
Model	SMS 5808 NF
Function	Multiswitch with standby mode
Inputs	4 satellite and 1 terrestrial
Receiver outputs	8
Tap Gain SAT-IF 950...2150 MHz	-5...+1 dB
Tap Gain Terrestrial 47...862 MHz	-2...-3dB
Mains supply	100...240 V 50...60 Hz
Power consumption (operate)	13 W
Power consumption (standby)	3.5 W
LNB supply current	300 mA max.
Current consumption on receiver outputs	40 mA each
Isolation between receiver outputs	26 dB min.
Ambient temperature	-20 ... +50 °C (Indoor use only!)
Dimensions	259 x 132 x 56 mm

Trimax SM-2200 Signal Meter

Satellite Signal Finding Made Easy

If you're a satellite antenna installer, you want your job to be as easy as possible especially if you have to climb up on a roof to install that dish. You would like to go up and down that ladder as little as possible. Sometimes the most difficult part of the entire job is not erecting the antenna, but finding that elusive satellite that the customer wants to receive. Of course, you could carry that bulky satellite spectrum analyzer up there with you but what if there was any easier way? Trimax may have just what the doctor ordered.

Trimax recently introduced a sophisticated handheld signal meter that should greatly simplify an installer's job. Thanks to Jerry Fisher at SatMan Canada (www.satmancanada.com) who sent us a sample, we had the opportunity to take a closer look at this meter. At only about 1.25 LBS (0.5 Kg) and with dimensions of 9.5 x 15.5 x 4.5 cm, it is small and lightweight enough to easily carry around almost anywhere. The internal electronics are surrounded by a sturdy black plastic housing. The meter is powered by a 1950mA rechargeable Li-On battery.

The SM-2200 is fitted with a single male "F" input connector on the top side and a USB serial interface connector plus DC power port on the bottom. The USB connector and DC power port are protected from dirt and moisture by rubber protective flaps. Included in the package are an AC charger, a DC car charger, a female-to-female "F" connector, a black protective carrying case and convenient shoulder strap. Also included is a PC cable with an RS-232 connector on one end for a PC and a USB connector on the other end to plug into the meter. Lastly, you'll also find a 15-page user manual for the SM-2200.

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TRIMAX SM2200
An ideal tool for any satellite system installer

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Everyday Use

When charging the meter for the first time, the manufacturer recommends charging the internal battery for at least 5 hours before using the meter. The universal AC charger is rated for 90-240VAC/50-60Hz operation that, with the correct wall outlet adapter, lets you use the SM-2200 almost anywhere in the world. The DC car charger can be used to charge the meter while on the road. Just plug the charger into your vehicles 12VDC power port and the meter will recharge while enroute to your next installation job. The meter does not need to be turned on while the battery is being charged; the power LED on the front panel will glow green to show that charging is taking place. It will turn red when the meter is fully charged.

The satellite signal is supplied to the meter via the male "F" connector on the top side of the housing. You might be wondering why the manufacturer installed a male "F" connector and supplied a female-to-female "F" connector in the package instead of just installing a female "F" connector. The idea was that the exposed threads of a female "F" connector were far more likely of becoming damaged over time. In such a case, it would have probably involved taking the meter out of service to repair or replace the female "F" connector. Instead, when the threads become damaged, it is a simple matter of removing the existing female-to-female "F" connector and replacing it with a new one. Obviously, the manufacturer was thinking ahead when they came up with this idea.

The front panel of the SM-2200 comes with 28 buttons to operate the meter. These buttons include a numerical keypad, four function buttons, four left/right/up/down ring buttons surrounding an "OK" button plus a set of buttons to access specific points in the meter's menu. And let's not forget the main power button. There's also a set of five status LEDs: a power indicator, a signal lock indicator, a 22 kHz indicator as well as 13V and 18V polarization indicators. But, without a doubt, the most prominent feature on the front panel is the 3.5" TFT LCD screen. Not only can you view all the different menu pages right on this screen, but you can also watch and listen to satellite TV channels directly on the SM-2200! This virtually guarantees that the satellite you want is the satellite you get.

Once the meter has been fully charged, hold down the red power button for about one second to turn the unit on. If you are turning on the meter for the first time or if the meter has been reset, the registration code that comes with the package needs to be entered. From this point on, the meter will take

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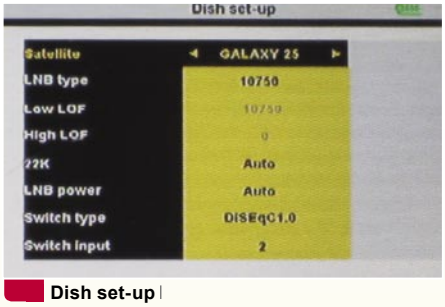
Meter with accessories

you directly to the Main Menu screen every time it is turned on. Next the meter needs to be set up for the area it will be used in. From the Main Menu screen use the arrow keys to scroll down to System Setting and press the OK button. If the meter happens to be in TV mode, the System button on the front panel can be used to go directly to the System Setting screen. From the System Setting screen, you can select the proper language (English or Russian), the correct TV standard (NTSC, PAL, SECAM or AUTO) and set up the timer to shut down the LCD screen after a user-settable time (5, 10, 15 or 20 minutes). For our initial test we wanted to use the meter to align our dish to Galaxy 25 at 97° west. So we selected English as our menu language and NTSC as our TV standard. From the System Setting screen you can also Factory Reset the meter and view the current software loaded in the meter. Once all the settings have been taken care of, the Exit button will take you back to the Main Menu.

With the system settings taken care of, your next logical step would be to enter the proper antenna settings into the meter. From the Main Menu screen, scroll to Satellite Setting and press the OK button and then scroll to Dish Set-up and press the OK button again. The Dish Set-up menu lets you choose a satellite and adjust its parameters so that the meter can properly receive a signal from the antenna. With the satellite name highlighted, we used the left/right arrow keys to select Galaxy 25. We were using a standard Ku-band LNB on our dish with an LOF (local oscillator frequency) of 10.750 GHz. In the Dish Set-up menu we scrolled to LNB Type and used the left/right arrow keys to select 10750. Other preprogrammed LOF settings include 5150, 9750, Universal and Customized. The Customized setting can be used to set up a different LOF such as the 11.250 GHz LOF used by the North American DTH satellite services. In the case of the Universal setting, the Low LOF, High LOF and 22 KHz settings are automatically adjusted for you. The LNB power setting can be used to force the meter to stay at either 13V or 18V regardless of what polarization is in use or to turn off the LNB power completely. In the Auto mode, the meter selects the proper voltage based on the polarization.

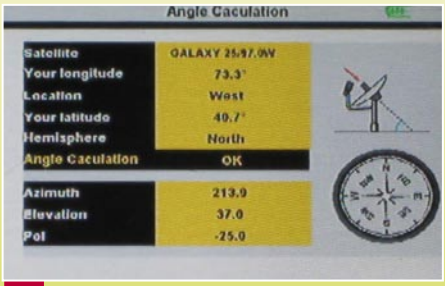
The antenna we want to align is routed through a DiSEqC 1.0 switch so the meter needs to be set up for this as well. From the Dish Set-up menu we scrolled to Switch Type and pressed the left/right arrow keys until DiSEqC 1.0 was displayed to activate this function in the meter. We selected #2 under Switch Input to match the #2 input used in our DiSEqC switch. Once these settings were taken care of, the Exit button was pushed and OK chosen to save the settings.

At this point the meter is ready to find satellites for you. The day we were outside to test the meter was cloudy so the video display was easy to see. But, even on those bright sunny days, the included sun screen helps make the video image viewable. For our first test, we wanted to see how easy it would be to find the Galaxy 25 satellite at 97° west. The meter came preprogrammed with all the transponders on this satellite so it was just a



Dish set-up

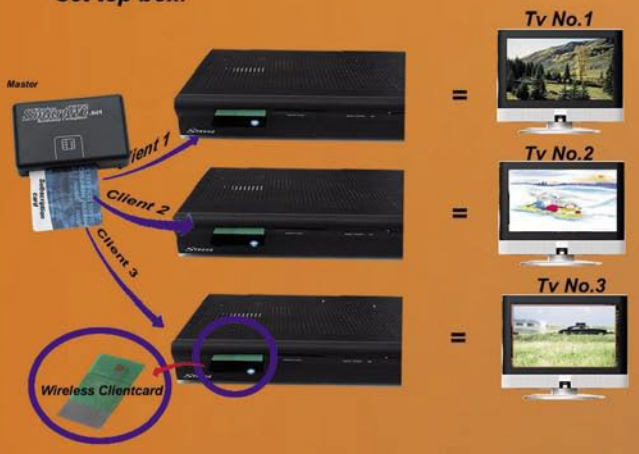
Satellite finding



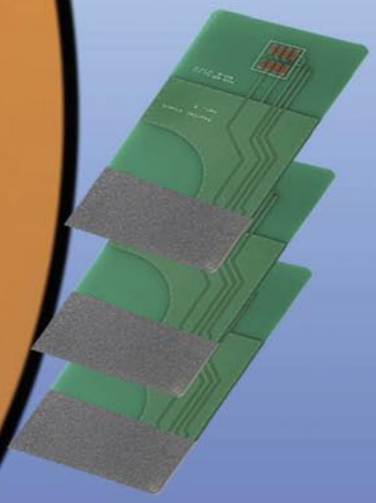
Angle calculation

Wireless SmartWi.net
Residential Cardsplitter

SmartWi is a wireless card splitter solution witch can be used in household with more than one set top box.



SmartWi split your subscription card and make is possible to watch differed programs on each set top box with only one subscriptions card.



Wireless SmartWi come standard with
1 Wireless SmartWi
3 Wireless Smartwi client card
1 Power adaptor for Smartwi master.

Wireless SmartWi works on most common set top box for Satellite, Cable and Terrestrial systems

Contact. information
http://www.smartwi.net
E-Mail : info@smartwi.net

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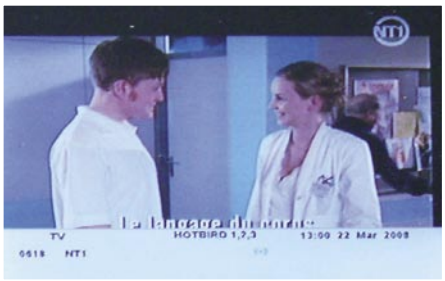
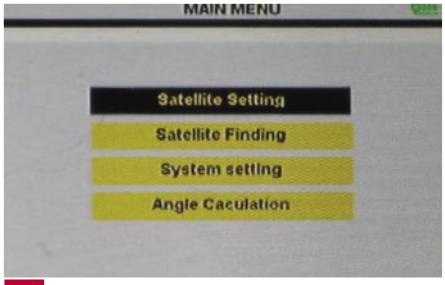
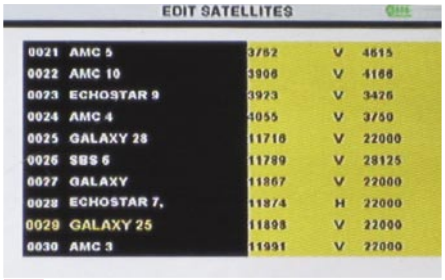


Info bar



Main menu



Edit satellites

matter of choosing which one to work with. From the Main Menu screen we highlighted Satellite Finding and pressed OK. This took us to the Satellite Finding screen from which we could select the satellite we wanted to look for and the transponder we wanted to use for this task. If a known active transponder is missing from the list, you can use the Satellite Finding screen to edit an existing transponder and put in the missing data. Just keep in mind that doing this will overwrite the existing data for that particular transponder. Unfortunately, it was not possible to add new transponders to a satellite through the meters menu screens; only existing transponders could be changed. Adding new transponders would involve using an interface program made available through the Trimax web site (www.trimaxmeters.com) and then uploading the new data to the meter through its USB port.

We opted for the 12.115V transponder and began by rotating our 90cm antenna in the general direction of Galaxy 25. In no time at all the signal strength and quality bar graphs on the Trimax meter display came to life announcing that we had found our target satellite. In addition to these two bar graphs, the display on the meter also shows the power in dBµV as well as the C/N and BER values to make fine tuning of the antenna a piece of cake. This information gives an installer an extra level of precision when aligning an antenna that could not normally be achieved using the signal strength and quality bar graphs alone.

If you're not exactly sure where a satellite is located in the sky, the meter also comes with a handy Angle Calculation tool to point you in the right direction. Simply go to the Angle Calculation screen from the Main Menu, enter in your local longitude and latitude coordinates and select the satellite you want to find. The tool will calculate the azimuth and elevation angles needed for that satellite.

Once the alignment is completed, a channel scan of the transponder can be started by scrolling down to Search and pressing the OK button. All of the active channels on the transponder were found and stored in the meter in just under 10 seconds. By exiting out of the on-screen menus, the channels that were just stored can be viewed. The up/down arrow keys can be used to switch between channels or you can press the OK button to display a list of the available channels. The left/right keys adjust the volume in full-screen mode and act as page up/down buttons when in Channel List mode. In the Channel List mode, the video of the current channel is shown in an insert. Scrolling through the list automatically shows the video of the highlighted channel. Pressing OK again places the current video back into full-screen mode.

The quality of the video is actually quite good; even the audio is good when you consider that this a satellite meter! Switching between channels takes about one second and just like a standard satellite receiver, an Info bar that provides some basic channel information is momentarily displayed at the bottom of the screen. We also tested the meter on several SCPC transponders and found that the Trimax had no trouble dealing with these lower symbolrates.

Conclusion

Its small size and light-weight design lets you take the Trimax SM-2200 right up to an existing or newly-installed dish antenna regardless of whether it happens to be on the ground, on a wall or on a roof. It is easy to hold in one hand and the menus are quite legible on the 3.5" display. It would make an ideal tool for any satellite system installer. There will undoubtedly be satellite hobbyists out there that will "have to have" this meter to add to their collection; from their point of view, this meter is a portable satellite receiver that they could use together with a small satellite dish anywhere they happen to be. Unfortunately, its price tag is somewhat higher than a standard satellite receiver and this might chase some of them away.

The long-life battery will almost guarantee that you won't run out of power in the middle of your installation and, should it need a charge in the field, simply plug it into your vehicles cigarette lighter with the supplied car power adapter. It would have been nice to be able to add new satellites and/or transponders while in the field. Hopefully a future software upgrade will take care of this minor inconvenience. Overall, though, the Trimax SM-2200 satellite meter is a reliable tool that will reduce much of the time needed to align a satellite system. It doesn't get much easier than this.

Expert Opinion

Ron Roessel
TELE-satellite Test Center USA

+

Small siize, light weight, and long-life battery makes it an ideal companion to any satellite installer

-

New transponders can only be added via software upload

Trimax SM-2200 in Europe

The Trimax SM-2200 used as a small portable satellite tv

When we powered up the meter and navigated through all of its menus, we quickly discovered that the western hemisphere satellites were preprogrammed into it by default. The test model we got was set up for use in North and South America. Can the SM-2200 also be used in other parts of the world?

We turned to the manufacturer's web site (http://www.trimaxmeters.com) and found special versions of firmware that were designed for different parts of the world: 1. Asia and South Pacific, 2. Atlantic Ocean, 3. Europe, Africa and The Middle East, 4. North and South America. The latest software version was higher than the one in our meter (1.03 vs. 1.00). We downloaded the European firmware along with the software loader, a transponder editor tool called the "Meter Tool". The firmware update went smoothly. The European satellite list included satellites from 4.8° E (Sirius) to 72° E (Intelsat 4).

We downloaded the manufacturer's satellite list to our PC, edited it a little bit with the "Meter Tool" by adding more sat-

ellites that can be received here in Europe and then uploaded it back to the meter. After setting up a test antenna in the yard, we connected the meter to see how easy it would be to align our dish. Within seconds we spotted ASTRA 1 (19.2° E) and then rotated the antenna to HOTBIRD (13° E). The meter showed the signal strength bar along with the quality bar that we used for feedback during the alignment.

If you get along with your neighbors, you can also listen to the special audio signal generated by the meter. The better the signal, the faster the beeps. The pitch of the beep stays constant and it is actually quite loud. This is a big plus for an installer working near a busy street and not necessarily in the backyard of someone's house. If you can do without the loud beeps, Trimax included the ability to shut the audio off by pressing the F2 key. We checked a few other satellites and tested FTA and scrambled channels, high and low symbol rate (over 2 Ms/sec); the meter locked onto every signal without any problems.

With the audio muted we had to rely on the screen readouts. Trimax added a practical sun shade to their carrying bag which we found very useful. The signal bar graphics as well as the signal power value expressed in dBµV were very easy to read. However, the signal quality percentage values and C/N value were harder to read. The last two are the most important when trying to fine tune an antenna. It would undoubtedly be helpful if a future software release made these values easier to read. Also the C/N resolution of 1 dB might be good enough to align a standard antenna that isn't too big. However, if we want to align our DX antenna, a C/N resolution of 0.1 dB (or MER) would be preferable. Once the antenna was properly aligned, we performed a typical automatic channel scan much like in a standard satellite receiver. The quality of the video was surprisingly good. The colors were much better than in the laptop we were using to write this test report. Even the audio was quite acceptable considering this was such a small unit. We really didn't expect to find such high quality in a signal finder. When you start flipping through the channels, you can't help but think about taking it with you on your next camping trip. Watching TV under a tent? Why not?

Expert Opinion

Jacek Pawlowski
TELE-satellite
Test Center
Poland

+

The Trimax SM-2200 is a signal finder combined with a satellite receiver. The meter has both visual and audible signals that can be used as feedback. The ability to show video is an additional plus; you can show your customer that the antenna system you just aligned is working exactly as it should. This may help in those situations when a customer is convinced that there is a problem with the antenna set up and it turns out to really be at the receiver end.

-

It would be nice if the manufacturer expanded the satellite list for Europe. If the C/N resolution of the meter could be increased to 0.1 dB, this would allow an installer to align reception systems that are more demanding. The meter might be easier to use if the signal quality displays were larger (C/N and signal quality percentage).

TECHNIC

DATA

Distributor	Satman Canada, Winnipeg, Manitoba, Canada
E-mail	trimaxmeters@mts.net
Tel	+1-204-661-3279
Model	Trimax SM-2200
Function	Hand-held Satellite Signal Meter
Symbolrate	2-45 Ms/sec
DiSEqC	yes, 1.0
Display	3.5" TFT LCD TV screen
Satellite Input	male "F" connector
USB Interface	yes
Internal Power Source	Rechargeable 1950mA battery
External Power Supply	90-240VAC/50-60Hz

Jiuzhou JQA1P Monoblock Quad LNBF 6

2 satellites for 4 receivers

A monoblock LNBF is used when you want to receive 2 satellites in Ku-band. This solution has an advantage over a motorized antenna in speed of satellite switching. It is immediate. A motorized dish would require the extra 2-3 seconds. Of course, the monoblock can only be used when the satellites are separated from one another by an exact number of degrees. And this separation can not be too high. Most popular monoblocks are made for 6° separation. For Europe, the most common combination for a monoblock is 19.2° E and 13° E. On these two orbital positions, there are the ASTRA and HOTBIRD satellite fleets.

Quite often you need to distribute the signal among a few receivers located in different rooms. The simple monoblock is of no use then. But if you have a monoblock quad LNBF, you may distribute the signal to four receivers and every of them will be able to tune to any channel from ASTRA or HOTBIRD independently. One 85-90 cm dish will be enough for ASTRA+HOTBIRD reception in Europe. This is a very practical solution especially for the viewers living in big cities. And evidently this is the target group for Jiuzhou JQA1P monoblock.

JQA1P monoblock has a metal enclosure sealed up. It is not any heavier than the other quad or quattro LNBF's. As you can see on our picture, it is designed for a 23 mm holder. The four F connectors are positioned so that the external ones are closer to the front and the middle ones closer to the rear of the case. Thanks to that, we have bigger distance between neighboring connectors and it is easier to attach the cables.

Before measuring the test sample, we measured one of the best single LNB we had in our drawer. It was our reference unit with NF = 0.2 dB typ. Noise figure of JQA1P is specified as 0.3 dB typical. We used an 85 cm dish for which monoblocks are designed for. Well, you can also use 90 cm, but if you install a monoblock on a 60 cm or 120 cm dish you will not get the orbital spacing of 6°, but a different one and you will not be able to align your antenna correctly.

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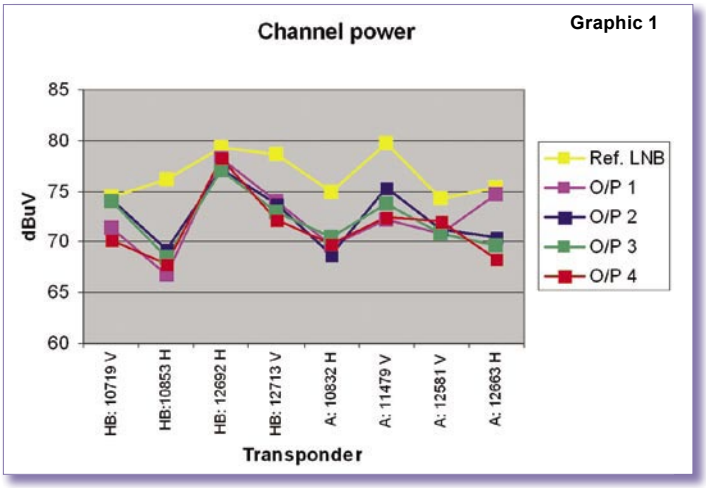
JIUZHOU JQA1P MONOBLOCK QUAD LNBF 6
High performance LNBF for 2 satellites and 4 receivers, optimized for 85 cm dishes

As you can guess, we used ASTRA and HOTBIRD satellites as our test signal sources. We have chosen the HOTBIRD LNBF to be in the antenna focus and ASTRA LNBF aside. But of course, one can do it vice versa. After connecting a meter to the JQA1P, we found the optimal antenna position for HOTBIRD. Then we sent a DiSEqC command to switch the monoblock to ASTRA LNB. The signal was weak. We moved antenna a little bit to increase it. After a few such adjustments, we found the compromise position in which both satellites were received equally well.

It was time to take the output channel power and C/N measurements to compare them later with the same measurements done for a reference LNB. On the first graph you can see the output power measured for four HOTBIRD transponders and four ASTRA transponders. We selected transponders of both polarizations and frequen-

Graphic 1



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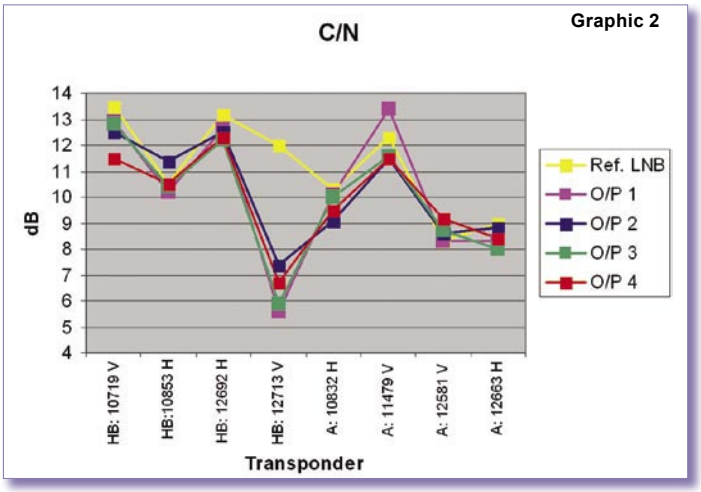
cies close to the ends of Ku-Band.

The output power of JQA1P was somewhat lower than the reference LNB. However, it was very high anyway. If we take a closer look at the graph, we will notice that there are no big differences between the monoblock LNB outputs.

However, the output channel power is not that critical as the quality of the output signal. So, we measured the C/N ratio for the same transponders. As you can see on the second graph, for the majority of transponders, the JQA1P produces almost equally good signal as our reference 0.2 dB single LNB.

This is really impressive if we take into account that a monoblock is always a compromise between the reception of an LNB in the focus and the reception of a side LNB. We noticed a decrease in performance only for the 12713 MHz V 27.5 Ms/sec transponder - at the very end of Ku-Band. At this point we switched our meter to see if there is still enough noise margin left. And it was! 3.3 dB is quite enough to ensure good reception even if the weather is less favorable.

Graphic 2



Expert Opinion

Jacek Pawlowski
TELE-satellite
Test Center
Poland

+

Performance of JQA1P is almost as good as that of a 0.2 dB single LNB installed in a focus of a perfectly aligned antenna. The difference between its 4 outputs is minimal. Installation is easy thanks to enough space between F connectors.

-

None

TECHNIC

DATA	
Manufacturer	Sichuan Jiuzhou Electric Group Co. Ltd, China
Internet	http://www.jiuzhou.com.cn/
E-mail	overseas@jiuzhou.com.cn
Telephone	(86 816) 2468428 (86 816) 2468360
Fax	(86 816) 2468903 / (86 816) 2469241
Model	JQA1P
Function	Universal Ku-Band Monoblock Quad LNB 6°
Noise Figure	0.3 dB (typ.)
LOF	9.750 and 10.600 GHz
Frequency Stability	±1 MHz max. / T=25° C ±3 MHz / T= –40…+60 °C
Gain	50~62 dB
Gain Variation	5 dB p-p (typ.)
Cross Polarization Isolation	25 dB (typ.), 20dB (min.)
Phase Noise at 1 kHz Offset	-60 dBc/Hz
Phase Noise at 10 kHz Offset	-80 dBc/Hz
Phase Noise at 100 kHz Offset	-100 dBc/Hz
DC Current Consumption	180 mA (max.)
Operating Temperature	-40…+60 °C
Waterproof	+60 °C water for 5 minutes
Holder diameter	23 mm

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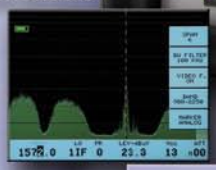

OSD Colour changes due to measure's enviroments, in order to help the operator to understand quickly the measures in progress.

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Techno Shopping in Yongsan

Undoubtedly the largest shopping mile for electronics, PC's and mobile phones – anything that would be of interest to the male population can be found in Yongsan in central Seoul. This electronic marketplace is said to be larger than those in Tokyo, Singapore, Hong Kong or London, and you would have no trouble believing it if you tried to take it all in. The complex is made up of multiple shopping malls in the middle of which we found some satellite shops that TELE-satellite paid a visit to.

TAEHWA

This shop founded by Hae-Jin Jung has been in existence for over 30 years. His best selling product is the 90cm dish of which he sells roughly 100 a month. The somewhat smaller 75cm antenna is also popular: "We sell about 70 of those every month", explains Hae-Jin Jung. Even 120cm dishes are available; all of these sizes are used for reception of KOREASAT. But even 180cm antennas are sold: "These are used for ASIASAT reception", reveals Hae-Jin Jung, "we sell about 40 or 50 of them each month." Hae-Jin Jung runs his business with three employees.

CUSTOM

Choi Jong Sik operates his family business also with three employees and at 25 years has been in business for almost just as long. His product line includes 60cm antennas of which he sells about 120 each year, 120cm dishes of which he sells about the same amount each year as well as 180cm antennas that account for roughly 70 a year.

"For satellite receivers, we offer a model from Multiplus", explains Choi Jong Sik.

If you ride the Seoul Metro Line #1 to the Yongsan station, you'll run into the I'Park Shopping Center sitting right on top of the Metro station: multiple levels are tightly packed with one electronics shop after the other. Everything brand new and 'glitzy'. If you exit the I'Park Shopping Center and walk across the pedestrian bridge (right side in picture), you'll find yourself in the next shopping center that sits over a bus terminal. Here some of the 'glitz' is lacking. Another pedestrian bridge takes you to the ETLAND Shopping Center (left side in picture), the largest in Yongsan and again very 'glitzy'. Other shopping malls are also linked that are far less 'glitzy' and offer less expensive products.

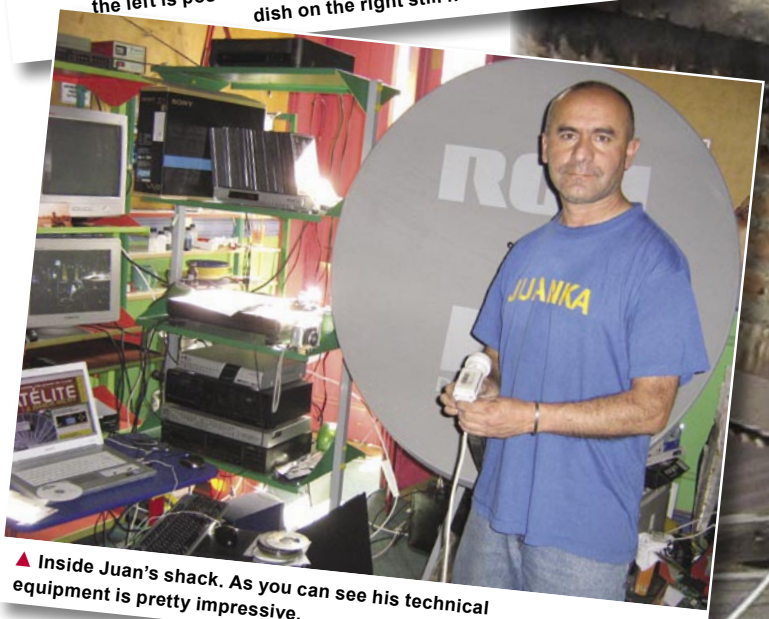
DIGITAL also offers satellite antennas and reception components.

Choi Jong Sik from CUSTOM, presents his best seller: a 120cm antenna. The smaller 60cm dishes are used for KOREASAT reception.

Hae-Jin Jung with a 75cm antenna in front of his TAEHWA TELECOM shop that also serves as a warehouse. If it's in stock, you can take it with you.

Satellites in Santiago

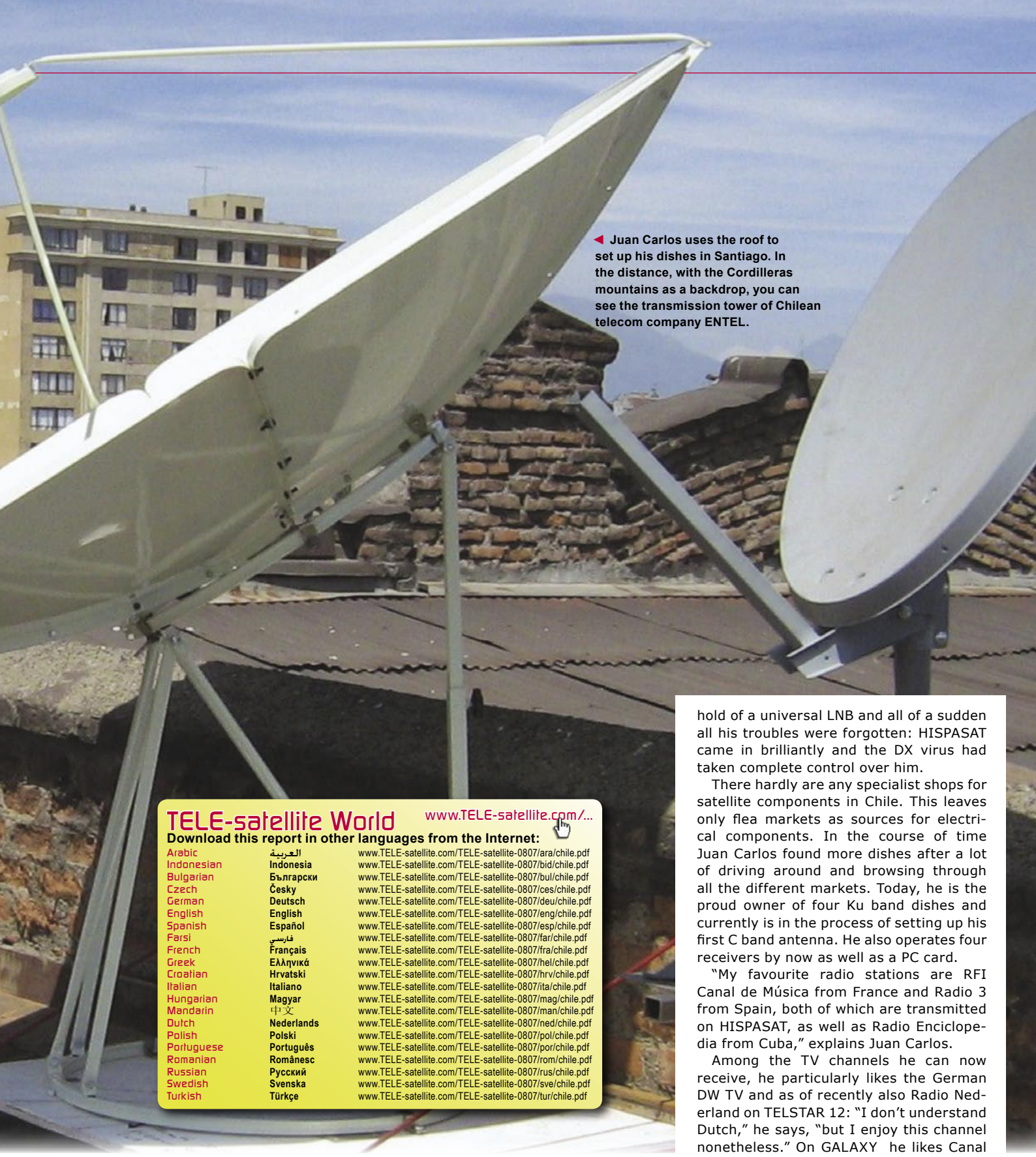
▲ Juan Carlos aligns his satellite antenna towards GALAXY. The dish to the left is positioned to receive TELSTAR 12 while the large C band dish on the right still has to be adjusted properly.



▲ Inside Juan's shack. As you can see his technical equipment is pretty impressive.

▲ Juan Carlos reading TELE-satellite, which he downloads via the Internet and prints at home.

Right next to the LA MONEDA presidential palace in Santiago de Chile, Juan Carlos Miranda Duarte is busy creating his own fully featured DX system. His professional background as a metal worker certainly is an asset for this job. Originally coming from Viña del Mar, a town some 120 km south of Santiago, Juan Carlos tells the story of how he became a DX addict:



◀ Juan Carlos uses the roof to set up his dishes in Santiago. In the distance, with the Cordilleras mountains as a backdrop, you can see the transmission tower of Chilean telecom company ENTEL.

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"About a year ago I stumbled across TELE-satellite while surfing the Internet. It was Ingo Salomon's giant antenna in South Africa that immediately caught my attention." But frankly, Juan Carlos showed a certain predisposition even as a youth when he was a dedicated listener to shortwave radio which he picked up with an old Telefunken tube radio. No wonder, then, that he caught the virus again as soon as he had read the TELE-satellite story: rather than being limited to pay TV channels from his own country he wanted to receive FTA stations from around the globe.

A friend offered him a used satellite receiver which he bought right away, and he also managed to quickly source a used dish complete with LNB. He put together all components and desperately tried to catch a signal – to no avail. Had he bought a defective receiver? Was it the LNB's fault? What about the dish alignment? Or did he use wrong or incomplete parameters to set up his equipment? Weeks went by, but Juan Carlos never lost his patience.

There came a day when he could get hold of a universal LNB and all of a sudden all his troubles were forgotten: HISPASAT came in brilliantly and the DX virus had taken complete control over him.

There hardly are any specialist shops for satellite components in Chile. This leaves only flea markets as sources for electrical components. In the course of time Juan Carlos found more dishes after a lot of driving around and browsing through all the different markets. Today, he is the proud owner of four Ku band dishes and currently is in the process of setting up his first C band antenna. He also operates four receivers by now as well as a PC card.

"My favourite radio stations are RFI Canal de Música from France and Radio 3 from Spain, both of which are transmitted on HISPASAT, as well as Radio Enciclopedia from Cuba," explains Juan Carlos.

Among the TV channels he can now receive, he particularly likes the German DW TV and as of recently also Radio Nederland on TELSTAR 12: "I don't understand Dutch," he says, "but I enjoy this channel nonetheless." On GALAXY he likes Canal 7 from Argentina and TV Montecarlo from Uruguay. The TV channels from Cuba and TV Canarias from Spain also count among his favourites. "In the evening I switch my receiver to Belgian radio on TELSTAR 12. The good music on this station then wakes me up again the next morning," Juan describes his listening habits.

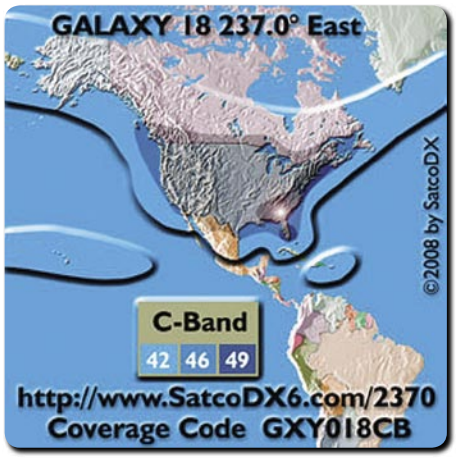
Currently Juan Carlos is in the process of expanding his equipment. There is enough space available, but getting hold of all the components is the tricky part. However, once the DX virus has a grip on somebody, all obstacles can be overcome.

Edited by
Sylvain Oscul

New Satellites

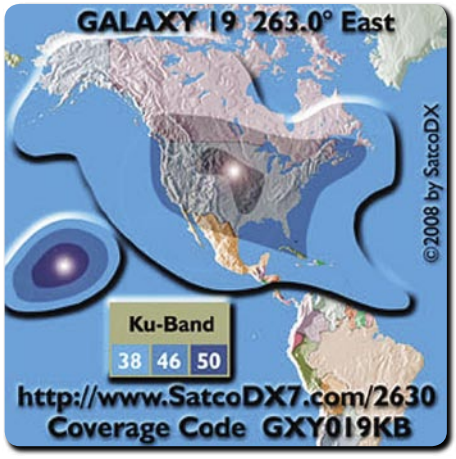
Update from last issue

GALAXY 18 is scheduled to be launched on 11th of May and TURKSAT 3A and BADR 6 are now scheduled to be launched in May.



GALAXY 19

This is a new Loral system satellite to be launched soon by Zenit 3 from Sea Launch's Odyssey platform in the Pacific Ocean. The new system will replace GALAXY 25 at 263°E (97°W) with 24 Ku and 24 C Band transponders.

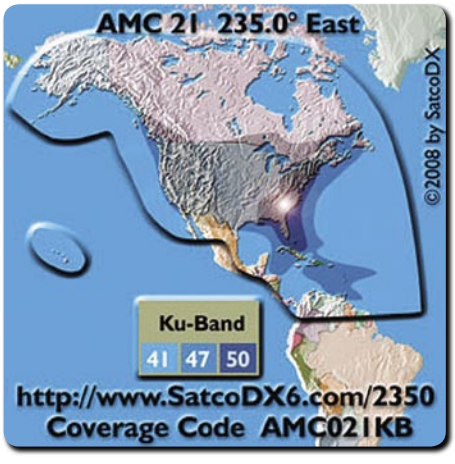


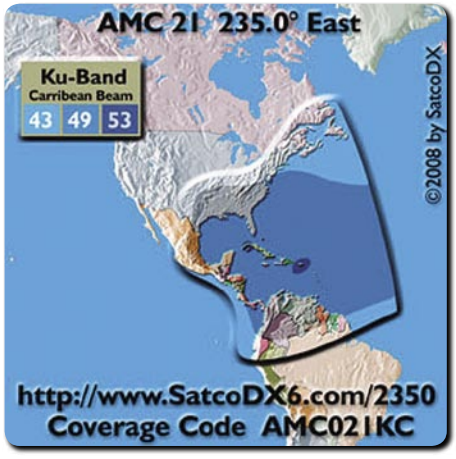
ASTRA 1M

Another ASTRA satellite for the 19°2E fleet, to be launched by Ariane in June or July, will replace ASTRA 1H with 36 transponders in Ku band for the next 15 years

AMC 21

To be launched be in June, this satellite will be placed at 235°E (125°W) with 24 Ku transponders. Launcher is Zenith 3.





EXPRESS AM-44

This satellite will be launched in June by Proton to replace EXPRESS 1 at 349°E (11°W). No official coverage maps available yet.

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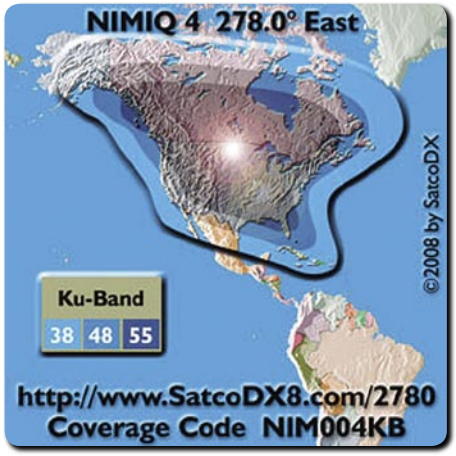
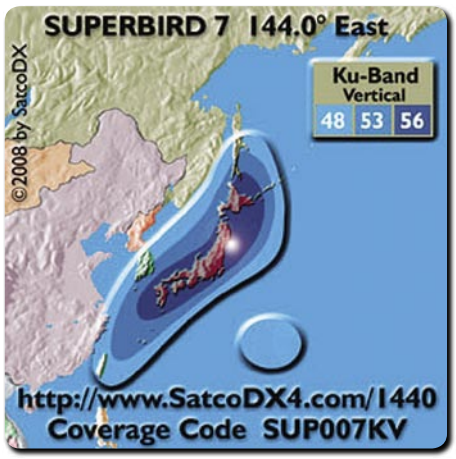
NIMIQ 4

Launch is scheduled for May. NIMIQ 4 will continue to enhance digital television services in Canada at 278°E (82°W) collocated with NIMIQ 2. It will feature 32 Ku-band and 8 Ka-band transponders. Launcher is Proton from the Baikonour site in Russia.



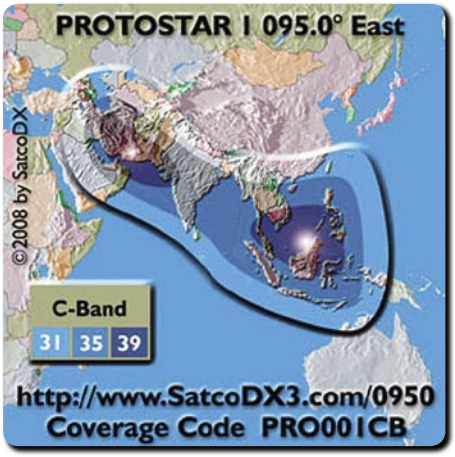
SUPERBIRD 7

Will be launched by an Ariane 5 in July from the Guyana Space Center, Europe's Spaceport in Kourou, French Guayana, South America, and be positioned at 144°E with 28 Ku transponders.



PROTOSTAR 1

This new bird is to be launched in June by Ariane 5 in Guyana, to be located at 95°E with 22 Ku and 32 C-Band transponders to provide DTH to the Asia area for the next 15 years.



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The products can be branded. In case of larger order the products will be delivered free of charge.

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

SIRIUS 4
SIR004NO

SIRIUS 3,4
5.0 East
SIR004EU

Europe
EUTELSAT W3A
7.0 East
EUTW3ABA

EUTW3ABB

South Africa
EUTELSAT W3A
7.1 East
EUTW3AAB

EUROBIRD 9
9.0 East
EUB009KW

EUTELSAT W1
10.0 East
EUTW1KE

HOTBIRD 6,7A,8
13.0 East
HOT006KB

TV Digital	Radio Digital
TV Digital Crypt	Radio Digital Crypt
TV High Definition	TV High Definition Crypt
Data Channel	
TV Analog	Radio Analog

Freq Pol GHz	Channel Name	Symbol rate
●12.597 V	GBTS3	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	RTE	27500
12.597 V	Sedayeiran	27500
12.597 V	The Voice	27500
12.597 V	VTCSW1	27500
12.597 V	WRN Deutsch	27500
12.597 V	WRN Eng AAP	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	YLESAT 1	27500
12.597 V	YLESAT 2	27500
12.597 V	Quadriga	27500

HOT008KB

Freq Pol GHz	Channel Name	Symbol rate
10.719 V	DTV 4	27500
10.719 V	DTV CABLE MI	27500
10.719 V	DTV CABLE PL	27500
10.719 V	EUROSPORT 2	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	PLANETE	27500
10.719 V	TV 4	27500
10.719 V	4fun.TV	27500
10.719 V	ESP	27500
●10.719 V	tech 3	27500
10.719 V	ST	27500
10.723 H	AXN	29900
10.723 H	AXN Crime	29900
10.723 H	AXN Sci-Fi	29900
10.723 H	Discovery Historia	29900
●10.723 H	Religia	29900
10.723 H	10.722 H	29900
10.723 H	AL JAZEERA SP+1	29900
10.723 H	AL JAZEERA SP+2	29900
10.723 H	ANT1 EUROPE	29900
10.723 H	Deepam TV	29900
●10.723 H	ANT1 EU promo	29900
10.723 H	MTA INTL	29900
10.723 H	RTPi	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	Playin TV Outlist	27500
10.757 V	Sud Radio	27500
10.757 V	TPS & Vous	27500
10.757 V	Canal+	27500
10.757 V	Playin TV	27500
10.757 V	PRIVATE SPICE	27500
10.757 V	RADIO2000	27500
10.757 V	Tests terminaux	27500
10.757 V	X X L	27500
●10.795 V	CANAL + FAMILY	27500
10.795 V	Fun TV	27500
10.795 V	Infosport	27500
10.795 V	M6 Music Hits	27500
10.795 V	Paris Première	27500
10.795 V	Piwi	27500
10.795 V	Planète Juniors	27500
10.795 V	Série Club	27500
10.795 V	Teletoon Africa	27500
10.795 V	TF6 Foot	27500
10.795 V	Télétoon	27500
10.795 V	Téva	27500
10.795 V	France Info	27500
10.795 V	France Inter	27500
10.795 V	Radio FG	27500
10.795 V	Quizz_TF1	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	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 JE	27500
10.892 H	DTV CABLE KU	27500
10.892 H	DTV CABLE ZI	27500
10.892 H	test 1	27500
10.892 H	test 2	27500
10.892 H	test 3	27500
10.892 H	JETIX	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	ZONE CLUB	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
10.892 H	PHILIPS DOWNLOAD	27500
10.910 V	Eurosport	27500
10.910 V	Histoire	27500
10.910 V	LCI	27500
10.910 V	M6	27500
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	BFM	27500
10.910 V	Skyrock	27500
10.910 V	BANDIAGARA	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	FILMNET1 Cy	27500
10.930 H	FILMNET2	27500
10.930 H	FILMNET2 Cy	27500
10.930 H	MGM	27500
10.930 H	MTV	27500
10.930 H	National Geographic	27500
10.930 H	OTV Test	27500
●10.930 H	SigSp1	27500
10.930 H	SSExtra 2	27500
●10.930 H	Sieati	27500
10.930 H	SuperSport1 Cy	27500
10.930 H	SuperSport3	27500
10.930 H	SuperSport3 Cy	27500
10.930 H	Travel Channel	27500
10.930 H	VH1	27500
10.930 H	CY Feed	27500
10.930 H	NOVA SCOPE	27500
10.930 H	Radio Gold	27500
10.930 H	REAL FM	27500
10.930 H	SS FM	27500
10.930 H	EEPG	27500
10.930 H	Eepg	27500
10.930 H	OTV PVR	27500
10.949 V	Cartoon Network	27500
10.949 V	CN/TCM CEE Combo	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	Al 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
11.727 V	An Planet	27500
11.727 V	Disc Chil	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	Nepali	27500
11.727 V	Sangana Uno	27500
11.727 V	Sardinia	27500

Freq Pol GHz	Channel Name	Symbol rate
11.727 V	SET	27500
11.727 V	Sicilia Int	27500
11.727 V	Telefortune	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
●11.747 H	AL ARABIYA	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-Ara	27500
11.747 H	ME SHOP	27500
●11.747 H	PMC	27500
●11.747 H	Sama Dubai	27500
●11.747 H	SHARQIYA	27500
●11.747 H	EDTV Radio 1	27500
●11.747 H	EDTV Radio 2	27500
11.766 V	Rai Gulp	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
11.766 V	download	27500
●11.785 H	Al-Hayat	27500
●11.785 H	Arabtive	27500
11.785 H	Canal 24 Horas	27500
●11.785 H	Channel One	27500
11.785 H	Dolar Global TV	27500
●11.785 H	ERO LIVE 1	27500
●11.785 H	ERO PULSE	27500
●11.785 H	Exotica	27500
11.785 H	GAY.TV	27500
●11.785 H	Ictimai TV	27500
●11.785 H	IGHRA	27500
11.785 H	Kicc TV	27500
●11.785 H	KontaktChance.TV	27500
●11.785 H	Mare TV	27500
●11.785 H	MARE TV	27500
●11.785 H	Payame Afghan	27500
●11.785 H	PTV	27500
●11.785 H	R1	27500
●11.785 H	SAT EROTICA	27500
●11.785 H	Subacquea	27500
●11.785 H	SUBACQUEA.TV	27500
11.785 H	TVE Internacional	27500
11.785 H	TVE Internacional As	27500
●11.785 H	VIP.TV	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	RaiNettunoSat1	27500
11.804 V	RaiNettunoSat2	27500
11.804 V	RaiNotizie24	27500
11.804 V	RaiSport	27500
11.804 V	RaiTest	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	SuperSport1	27500
11.823 H	ALPHA TV	27500
11.823 H	ALTER	27500
11.823 H	ANT-1	27500
11.823 H	FILMNET1	27500
11.823 H	JETIX	27500
11.823 H	MEGA	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	SuperSport1	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
●11.842 V	DIS61	27500
●11.842 V	IEPG Data	27500
●11.842 V	Playjam	27500
●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
●11.861 H	IEPG Data	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
●11.880 V	DIS63	27500
●11.880 V	Gestione Collegam. T	27500
●11.880 V	Prima Fila	27500
11.900 H	AXN	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
11.900 H	IEPG Data	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
11.958 V	SKY Sport 1	27500
11.958 V	iadv Video	27500
11.958 V	SKY Sport 2	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
11.958 V	i-Spot Nokia Nseries	27500
11.958 V	i-Spot Puntoshop	27500
11.958 V	IEPG Data	27500
●11.976 H	Cartoon Network	27500
●11.976 H	Cult	27500
●11.976 H	Cultoon	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
●11.976 H	IEPG Data	27500
●11.976 H	SKY PASS	27500
12.015 H	ART CHILDREN/TARA	27500
12.015 H	ART CINEMA - ARAB	27500
12.015 H	ART HEKAYAT - ARA	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	LBC EUROPE - ARAB	27500
12.015 H	NILE DRAMA - ARAB	27500
12.015 H	FUTURE TV - ARABE	27500
12.015 H	IQRAA - ARABESQUE	27500
12.034 V	Disney Channel	27500
12.034 V	E!	27500
12.034 V	New Ch1	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
12.034 V	IEPG Data	27500

Freq Pol GHz	Channel Name	Symbol rate
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
12.054 H	IEPG Data	27500
●12.072 V	Prima Fila 11	27500
●12.072 V	Prima Fila 13	27500
●12.072 V	Prima Fila 22	27500
●12.072 V	Prima Fila 28	27500
●12.072 V	Prima Fila 3	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
●12.072 V	IEPG Data	27500
●12.092 H	MCT Blu	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 Premium	27500
12.092 H	MCT Sat	27500
●12.092 H	MCT Sex	27500
●12.092 H	MCT Strong	27500
12.092 H	MCT Super-Dream	27500
12.092 H	Redlight German	27500
12.092 H	Redlight Italy	27500
12.092 H	Redlight LATINO	27500
12.092 H	Redlight Mixx	27500
12.092 H	TELEITALIA	27500
12.092 H	MCT Lux-Best	27500
12.092 H	MCT Reality-Full	27500
12.092 H	Redlight USA	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
12.092 H	Bolsa	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	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	TV della Liberta'	27500
12.111 V	UNOSAT	27500
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.KOLBE-SAT	27500
12.111 V	R.Maria	27500
12.111 V	R.Speranza	27500
12.111 V	Radio Europin	27500
12.111 V	RADIO PADANIA	27500
12.111 V	Radio Padania IP	27500
12.111 V	Radio Radicale	27500
12.111 V	Radio ZETA	27500
12.111 V	RDS	27500
12.111 V	Vietnamese PR	27500
12.111 V	OUT IP DATA TS1	27500
12.131 H	Magyar 2	27500
12.131 H	Bartok Radio	27500
12.149 V	BLU	27500
12.149 V	BLU 3	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	promocja.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 Azzurra	27500
12.149 V	Radio Spazio Aperto	27500
12.149 V	TeleSport	27500
12.149 V	Test	27500
12.149 V	AH-EMP4-DATA	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 TV	27500
12.169 H	MAD TV	27500
12.169 H	NET	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	SKAI TV	27500
12.169 H	SuperSport1	27500
12.169 H	SuperSport2 Cy	27500
12.169 H	SuperSport7	27500
12.169 H	SuperSport7 Cy	27500
12.169 H	TCM	27500
12.169 H	Test TX	27500
●12.169 H	Bouki	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	Animal Planet	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	KINO POLSKA	27500
12.188 V	Test_P	27500
12.188 V	TVP1	27500
12.188 V	TVP2	27500
12.188 V	Zone Romantica	27500
12.188 V	EpgOpenTV	27500
12.188 V	01 41 01 06	27500
●12.188 V	02010016	27500
●12.188 V	0202000E	27500
●12.188 V	Samsung2	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	KURDsat	27500
12.207 H	Newroz	27500
12.207 H	Pars TV	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	Christian Voice	27500
12.207 H	George Test	27500
12.207 H	Hornafrik Somalia	27500
12.207 H	Music Box Radio	27500
12.207 H	Overcomer Radio	27500
12.207 H	Rang A Rang radio	27500
12.207 H	SWISS MUSIC RADIO	27500
12.207 H	TGN Radio	27500
12.207 H	VOV Radio	27500
12.226 V	Al Hurra-Europe TV	27500
12.226 V	IBB DS Download 8	27500
12.226 V	IBB DS Download 9	27500
12.226 V	IBB TV Dedicated C	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	VNN TEST 400	27500
12.226 V	VOA Music Rad 260	27500
12.226 V	VOA Music Rad 261	27500
12.226 V	VOA Music Rad 262	27500
12.226 V	VOA Music Rad 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

Freq Pol GHz	Channel Name	Symbol rate
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
12.226 V	VOA TV 252 (HB1-2,	27500
12.226 V	Farda Radio 119	27500
12.226 V	Farda Radio 294	27500
12.226 V	Farda Radio 306	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 V	IBB VOA RFERL Rad	27500
12.226 V	IBB VOA RFERL Rad	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 Egypt Radio 302	27500
12.226 V	Sawa Gulf Radio 117	27500
12.226 V	Sawa Gulf Radio 291	27500
12.226 V	Sawa Gulf Radio 303	27500
12.226 V	Sawa Iraq Radio 115	27500
12.226 V	Sawa Iraq Radio 283	27500
12.226 V	Sawa Iraq Radio 301	27500
12.226 V	Sawa Lebanon Radio 1	27500
12.226 V	Sawa Lebanon Radio 2	27500
12.226 V	Sawa Lebanon Radio 3	27500
12.226 V	Sawa Levant Radio 11	27500
12.226 V	Sawa Levant Radio 28	27500
12.226 V	Sawa Levant Radio 30	27500
12.226 V	Sawa N. Africa Radio	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 V	Sawa Sudan Radio 305	27500
12.226 V	VOA Music Mix 104	27500
12.226 V	VOA Urdu Radio 310	27500
12.245 H	Canal J	27500
12.245 H	FILLES TV	27500
12.245 H	Gulli	27500
12.245 H	MEZZO	27500
12.245 H	Private Spice	27500
12.245 H	TIJI	27500
12.245 H	Virgin 17	27500
12.245 H	AZ TV	27500
●12.245 H	COMING SOON	27500
12.245 H	DAN TV	27500
12.245 H	HOLY GOD	27500
12.245 H	KURD 1	27500
12.245 H	Rainbow TV	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
●12.284 H	Boomerang	27500
12.284 H	Civilisation	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	Science	27500
●12.284 H	Test-EPG	27500
●12.284 H	Travel	27500
●12.284 H	TV1000	27500
●12.284 H	Zone Club	27500
●12.284 H	Zone Europa	27500
●12.284 H	Zone Reality	27500
12.284 H	Jedynka - PR	27500
●12.284 H	Radio Polonia	27500
●12.284 H	RMF FM	27500
12.284 H	Test Radio 2	27500
●12.284 H	Trójka - PR	27500
●12.284 H	Pogoda	27500
●12.284 H	Portal ITV	27500
●12.284 H	RADIO PLUS	27500
●12.284 H	Radio Plus	27500
12.284 H	Radio ZET	27500
●12.284 H	Radiostacja	27500
●12.284 H	RMF Classic	27500
●12.284 H	RMF MAXXX	27500
●12.284 H	Test	27500
●12.284 H	01 34 01 16	27500
12.284 H	CP_Download	27500
12.284 H	EDCPS	27500
●12.284 H	SAMSUNG370	27500
12.284 H	SCM Download	27500
●12.284 H	Techniczny	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 LIVE	27500
12.303 V	ITALIAN MUSIC	27500
12.303 V	Kanal e Jadid	27500
●12.303 V	LOVEWORLD	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 K-C	27500
12.303 V	TV SLJEME	27500
●12.303 V	TVS	27500
12.303 V	XL Tv	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	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	TRACE-TV	27500
12.322 H	UNIVERSAL	27500
12.322 H	France 24 (in Arabic	27500
12.322 H	Italy&Italy	27500
12.322 H	RIT-TV	27500
12.322 H	World Fashion	27500
12.322 H	GRAND	27500
12.322 H	Lijepa nasa (LINA)	27500
12.322 H	MB MITIC BILJANA	27500
12.322 H	PEIRAIKI EKKLISIA	27500
12.322 H	Radio Azadegan	27500
12.322 H	Radio Dijla	27500
12.322 H	RADIO FLES	27500
12.322 H	RADIO IZVOR	27500
12.322 H	Radio SRNA-BOSANK	27500
12.322 H	Radio SvetPLUS	27500
12.322 H	RAM RAJ RADIO	27500
12.322 H	Srce Lijepe Nase	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 20	27500
12.341 V	Prima Fila 24	27500
12.341 V	Prima Fila 29	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
12.341 V	IEPG Data	27500
12.360 H	SEX VIEW HQ	27500
12.360 H	SEX VIEW 24/7	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 HD	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	!ALLOVE	27500
12.360 H	.AAA Sex Channel	27500
12.360 H	HOUSE CHANNEL	27500
●12.360 H	KARIALI TV	27500
●12.360 H	PIANETA TV	27500
12.360 H	QUORE TV	27500
12.360 H	SEX VIEW 264	27500
●12.360 H	SEXWORLD	27500
12.360 H	SEXYSAT2	27500
12.360 H	SEXYSAT3	27500
12.360 H	SEXYSAT4	27500
12.399 H	HD suisse	27500
12.399 H	SF 1	27500
12.399 H	SF zwei	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	CNN Intl.	27500
12.418 V	Discovery Civil.	27500
12.418 V	Discovery Travel	27500
12.418 V	La7	27500
12.418 V	Milan Channel	27500
●12.418 V	SKY Cinema Hits	27500
12.418 V	SKY Classics	27500
12.418 V	SKYCinema 2	27500
12.418 V	IEPG Data	27500
12.437 H	AL-ALAM	27500
12.437 H	ALKAWTHAR	27500
12.437 H	FEED	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	IRIBQURAN	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

Freq Pol GHz	Channel Name	Symbol rate
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 ASHNA	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
●12.466 V	IEPG Data	27500
12.476 H	Alpha ETC Punjabi	27500
12.476 H	ARY DIGITAL	27500
12.476 H	B4U Movies	27500
12.476 H	Zee Cinema	27500
12.476 H	Zee TV	27500
12.476 H	.Eurotour-Xstream	27500
12.476 H	2M MAROC	27500
●12.476 H	Finest TV	27500
12.476 H	Komala TV	27500
12.476 H	LIVE 24	27500
12.476 H	MEZOPOTAMIA	27500
●12.476 H	Newroz	27500
12.476 H	Pedroze TV	27500
12.476 H	ROJ	27500
12.476 H	Tele A	27500
12.476 H	ROUGE FM	27500
12.476 H	ALMAHABA	27500
12.476 H	DENGE RADIO	27500
12.476 H	Eviva Radio	27500
12.476 H	RADIO 2M MAROC	27500
12.476 H	RADIO 74	27500
12.476 H	Radio Zamaneh	27500
12.476 H	RVi 1 (VRT)	27500
●12.476 H	RVi 2 (VRT)	27500
12.476 H	TASVIR IRAN	27500
12.476 H	TOP TWO	27500
12.476 H	AllSat.Com	27500
12.476 H	Allsatcom4	27500
12.476 H	HUMAX DOWNLOAD SV	27500
12.476 H	MOVIEPEAK	27500
12.476 H	Opentech	27500
12.476 H	StrongDigitalTV	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
12.616 H	DIS83	27500
12.616 H	IEPG Data	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 40	27500
12.635 V	IEPG Data	27500
12.635 V	Zona Bet Test	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 -HOLY QURAN	27500
12.654 H	OMAN R1	27500
12.654 H	OMAN R2	27500
12.654 H	OMAN R3	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 MAGHRIBIA	27500
12.673 V	ARRABIAA	27500
●12.673 V	ARRIADIA	27500
12.673 V	ASSADISSA	27500
12.673 V	MediSAT	27500
12.673 V	TVM INTER	27500
12.673 V	TVM INTER+L	27500
12.673 V	Amazigh	27500
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 national	27500
12.673 V	MAP SAT	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	CINE POP	27500
12.692 H	France 2	27500
12.692 H	France 3	27500
12.692 H	France 4	27500
12.692 H	ORANGE SPORT TV	27500
●12.692 H	TEST	27500
12.692 H	TMC	27500
12.692 H	VIDEOCLICK	27500
12.692 H	Beur TV	27500
12.692 H	BIS TV PROMO	27500
12.692 H	LUXE TV	27500
12.692 H	PASSIONS	27500
12.713 V	Amici int.	27500
12.713 V	NatGeo Music	27500
12.713 V	SKY Focus	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 5	27500
12.713 V	IEPG Data	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	Hallmark	27500
12.731 H	History	27500
12.731 H	Jetix +1	27500
12.731 H	NationalGeo	27500
12.731 H	New Ch4	27500
12.731 H	Roma Channel	27500
12.731 H	Universal	27500
12.731 H	IEPG Data	27500

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Freq Pol GHz	Channel Name	Symbol rate
●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	Civilisation	27500
11.117 V	Science	27500
11.117 V	Travel	27500
11.117 V	Wedding TV	27500
11.117 V	Kairali	27500
11.117 V	BBC WS Persian Rad	27500
●11.119 H	CNBC Europe	27500
11.119 H	JimJam	27500
11.119 H	Prima Fila 31	27500
11.119 H	Prima Fila 32	27500
11.119 H	Prima Fila 33	27500
11.119 H	Prima Fila 35	27500
11.119 H	Prima Fila 36	27500
11.119 H	Prima Fila 37	27500
11.119 H	Prima Fila 38	27500
11.119 H	Prima Fila 39	27500
11.119 H	IEPG Data	27500
11.258 H	Boomerang	27500

Freq Pol GHz	Channel Name	Symbol rate
11.258 H	Cartoon TCM	27500
11.258 H	Cinemax 1	27500
11.258 H	Cinemax 2	27500
11.258 H	DA VINCI	27500
11.258 H	Jetix	27500
11.258 H	KidsCo	27500
11.258 H	MTV2	27500
11.258 H	NASN	27500
●11.258 H	Nasport 58	27500
●11.258 H	Nasport 59	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 1	27500
11.258 H	TVP 2	27500
11.258 H	TVP 3	27500
11.258 H	TVP Sport	27500
●11.258 H	HBO HD	27500
11.258 H	ITVN EU	27500
11.258 H	R1	27500
11.258 H	R2	27500
●11.278 V	CANAL+ FILM HD	27500
●11.278 V	CANAL+ SPORT HD	27500
11.278 V	NATIONAL GEO HD	27500
11.296 H	S2K	27500
11.296 H	AB Channel	27500
11.296 H	ALL TV	27500
11.296 H	Challenger Tv	27500
11.296 H	Desene Tv	27500
11.296 H	Gold shop	27500
11.296 H	IMC	27500
11.296 H	julie	27500
11.296 H	Laurenti Ch	27500
11.296 H	Lazio Ch	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	ONE	27500
11.296 H	Poker Tv	27500
11.296 H	Punto Sat	27500
11.296 H	Puntosat3	27500
11.296 H	Radio Italia TV	27500
11.296 H	ROLSAT	27500
11.296 H	S.Neu Jerusalem	27500
11.296 H	S24	27500
11.296 H	Ulisse	27500
11.320 V	TV 5 Europe	27500
11.355 V	Fox Life +1	27500
11.355 V	GF Feed1	27500
11.355 V	GF Feed2	27500
11.355 V	GF Feed3	27500
11.355 V	GF Feed4	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	SKY Cinema HD	27500
11.355 V	SKY Sport HD	27500
●11.355 V	SKY Vivo Extra 1	27500
●11.355 V	SKY Vivo Extra 2	27500
●11.355 V	SKY Vivo Extra 3	27500
●11.355 V	SKY Vivo Extra 4	27500
11.355 V	SKY Test	27500
11.355 V	BET ON SKY	27500
11.355 V	DI81	27500
11.355 V	IEPG Data	27500
11.355 V	Modalita' d'Acquisto	27500
11.355 V	SKY Assist active	27500
11.355 V	SNAI	27500
11.411 H	Dorcel TV	27500
11.411 H	MTV IDOL	27500
11.411 H	MTV PULSE	27500
11.411 H	ADJARA TV	27500
11.411 H	APOSTOLIC ONENESS	27500
11.411 H	Bethel TV	27500
●11.411 H	CALABRIA	27500
11.411 H	Cancao Nova	27500
11.411 H	Casa Italia	27500
11.411 H	ECTV	27500
11.411 H	Extra 3	27500
11.411 H	Galaxy	27500
●11.411 H	IPN	27500
11.411 H	Mondo Arte	27500
11.411 H	NAPOLI NOVA	27500
11.411 H	One Minute TV	27500
11.411 H	RTA	27500
●11.411 H	SEX HOT CHILI	27500
11.411 H	Sexxx	27500
11.411 H	TAPESH TV2	27500
11.411 H	TIZIANA SAT	27500
11.411 H	TV2DAY	27500
11.432 V	Canale 5	27500
11.432 V	Iris	27500
11.432 V	Italia 1	27500
11.432 V	Rete 4	27500
●11.432 V	Servizio 21	27500
11.432 V	Servizio 23	27500
●11.432 V	Servizio 24	27500
11.432 V	Servizio 25	27500
11.432 V	Servizio 26	27500
11.432 V	Servizio 27	27500
●11.432 V	Servizio 28	27500
11.432 V	Servizio 29	27500
11.432 V	Servizio 30	27500
11.432 V	Sportitalia	27500
11.432 V	Sportitalia24	27500
11.449 H	Discovery HD	27500
●11.449 H	FILMBOX HD	27500
11.449 H	MGM	27500
11.449 H	nSport	27500
11.449 H	nTalk	27500
11.449 H	pVOD	27500
11.449 H	TVN Lingua	27500
11.449 H	Upload	27500
11.449 H	Wojna i Pokoj	27500
●11.488 H	ANIMAL PLANET	27500
●11.488 H	CINEMAX	27500
●11.488 H	CNBC	27500
●11.488 H	DISCOVERY	27500
●11.488 H	ESPN Classic Sport	27500
●11.488 H	EXTREME SPORTS	27500
11.488 H	KINO POLSKA	27500
11.488 H	TVP INFO	27500
●11.488 H	ZONE CLUB	27500
●11.488 H	ZONE REALITY	27500
●11.488 H	TTV	27500
11.488 H	TV POLONIA	27500
11.488 H	TV PULS	27500
11.488 H	TVP Kultura	27500
11.488 H	5199	27500
11.488 H	Polonia 1	27500
11.488 H	Tele5	27500
11.488 H	TRAVEL	27500
11.505 V	TVN	27500
11.526 H	TSI2	27500
11.526 H	TSR2	27500
11.526 H	TSI1	27500
11.526 H	TSR1	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
11.541 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	ARCOIRIS TV	22000
11.541 V	BERGAMOSAT	22000
11.541 V	La Nuova TV	22000
11.541 V	LA7	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	DISCORADIO	22000
11.541 V	Global-Mir	22000
11.541 V	KISS KISS RADIO	22000
11.541 V	LifeGate	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 CUORE	22000
11.541 V	RADIO CUORE DUE	22000
11.541 V	RADIO GYE NYAME	22000
11.541 V	RADIO KOLBE	22000
11.541 V	Radio Padre Pio	22000
11.541 V	RADIO RELAX	22000
11.541 V	Radio Torino Intl.	22000
11.541 V	ROCK FM	22000
11.541 V	VIRGIN RADIO	22000
11.541 V	ENVIATEL	22000
11.541 V	XSI	22000

Freq Pol GHz	Channel Name	Symbol rate
11.200 V	.Lolita	27500
11.200 V	ALL SEX	27500
11.200 V	Betting Channel	27500
11.200 V	EBC1	27500
11.200 V	ELITE SHOPPING	27500
11.200 V	EROS LIVE	27500
●11.200 V	Heaven TV	27500
11.200 V	Hot Point	27500
11.200 V	Hot Week	27500
11.200 V	Made In Italy	27500
11.200 V	MagicTV	27500
11.200 V	MOTORI TV	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	Sat8	27500
11.200 V	Sat9	27500
11.200 V	STARSAT	27500
11.200 V	Telenord	27500
11.200 V	TLC SAT	27500
11.200 V	Trentino TV	27500

The Full Chart with the most up-to-date channel data is available exclusively for TELE-satellite readers from SatcoDX's CD "World of Satellites"

Freq GHz	Pol	Channel Name	Symbol rate
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	NIS_Intesa1	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
[illegible]			

Europe
EUTELSAT W2
16.0 East

EUT0W2KW

[illegible]

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

[illegible]

East Africa
EUTELSAT W2
16.1 East

[illegible]

TV Digital | Radio Digital | TV Digital Crypt | Radio Digital Crypt | TV High Definition | TV High Definition Crypt | Data Channel | TV Analog | Radio Analog

Freq GHz	Pol	Channel Name	Symbol rate
11.635	H	Dance	28500
11.635	H	Deutsche Hits	28500
11.635	H	Deutsche Schlager	28500
11.635	H	Deutsche 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 (eng)	28500
11.675	V	CH1 Russia (rus)	28500
11.675	V	EuroNews (itl)	28500
11.675	V	EuroNews (ger)	28500
11.675	V	EuroNews (fre)	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
12.525	V	CT 2	27500
12.525	V	CS Film/XXX/Test2	27500
12.525	V	CT 1	27500
12.525	V	CT SPORT	27500
12.525	V	Galaxie Sport	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 4-Radio Wave	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 Region	27500
12.525	V	Proglas	27500
12.565	H	Markiza	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	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 3	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	V	EXPRES 7	27500
12.565	H	FUN-R	27500
12.565	V	hr1	27500
12.565	H	Lumen	27500
12.565	V	MDR INFO	27500
12.565	V	NDR Kultur	27500
12.565	V	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	H	BBC Prime (engl)	28500
12.605	H	Boomerang	28500
12.605	H	Boomerang (engl)	28500
12.605	H	CNBC Europe (engl)	28500
12.605	H	CNN (engl)	28500
12.605	H	Der Schmuckkanal	28500
12.605	H	Detski Mir	28500
12.605	H	Disney Toon	28500
12.605	H	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	V	GemsTV	28500
12.605	V	Giga Digital	28500
12.605	V	iMusic	28500
12.605	H	Jukebox	28500
12.605	H	kabel eins classics	28500
12.605	H	NASN	28500
12.605	H	NASN (engl)	28500
12.605	H	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	H	Sky News (engl)	28500
12.605	H	TCM Classic Movies	28500
12.605	H	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	H	BBC World Service	28500
12.636	V	K-TV	2277
12.685	V	arte	27500
12.685	V	Einsfestival	27500
12.685	V	EinsFestival	27500
12.685	V	EinsPlus	27500
12.685	V	Phoenix	27500

Freq GHz	Pol	Channel Name	Symbol rate
11.778	V	BravaHDTV	27500
11.778	V	NGC HD	27500
11.778	V	Service3	27500
11.778	V	Service1	27500
11.778	V	Service5	27500

BADR-3,4/EUROBIRD 2
26.0 East

Freq GHz	Pol	Channel Name	Symbol rate
11.727	H	Al Montada TV	27500
11.727	H	Algeria	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	Morocco TV	27500
11.727	H	Tunis	27500
11.727	H	Tunisia 21	27500
11.727	H	Algeria R1	27500
11.727	H	Algeria R2	27500
11.727	H	Eritera R1	27500
11.727	H	Eritera R2	27500
11.727	H	Ethiopia R1	27500
11.727	H	Mauritania R1	27500
11.727	H	Morroco R1	27500
11.727	H	Morroco R2	27500
11.727	H	R- Tunisie- Culture	27500
11.727	H	R- Tunisie- Internat	27500
11.727	H	R- Tunisie- National	27500
11.747	V	A Thuraya	27500
11.747	V	Al Jawhara TV	27500
11.747	V	Alkawthar	27500
11.747	V	ASMshop	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	TV5	27500
11.747	V	Wazifaty	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 12	27500
11.785	V	Test 13	27500
11.785	V	Test 5	27500
11.785	V	Test 10	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	Poet	27500
11.804	H	Sapedaty TV	27500
11.804	H	SHARJAH TV	27500
11.804	H	Test 1	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-Ressala	27500
11.843	H	Arabsat Coming Soon	27500
11.843	H	Arabsat Promotion Ch	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	Shasha Tarab	27500
11.843	H	Rotana Zaman	27500
11.843	H	Test	27500
11.862	V	A Igha Shop	27500
11.862	V	AL JAZEERA CHILDR	27500
11.862	V	Booyut Motmaeena	27500
11.862	V	Najah	27500
11.862	V	Oman TV2	27500
11.862	V	Test 1	27500
11.862	V	Test 2	27500
11.862	V	Test 3	27500
11.862	V	Test 5	27500
11.862	V	Test4	27500
11.862	V	Wazefaty TV	27500
11.862	V	Yara TV	27500
11.862	V	ALKAWTHAR Radio	27500
11.862	V	BBC Arabic Radio	27500
11.862	V	BBC English 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

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	LBCI	27500
11.823	V	NBN	27500
11.823	V	OTV	27500
11.823	V	Star Academy	27500
11.823	V	TeleLiban	27500
11.823	V	Test 8	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	ChatCom	27500
11.919	H	MBC Action	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 Aflaf	27500
11.938	V	Al Hurra	27500
11.938	V	Al Hurra Iraq	27500
11.938	V	Alaseel	27500
11.938	V	AutoOne	27500
11.938	V	Beauty	27500
11.938	V	DardaChat	27500
11.938	V	FANOOS	27500
11.938	V	Hamsa	27500
11.938	V	Mersal	27500
11.938	V	Mlive Club	27500
11.938	V	Rabet alkher	27500
11.938	V	Rayhana TV	27500
11.938	V	Romanceya TV	27500
11.938	V	U Mark	27500
11.938	V	Yalla SMS	27500
11.938	V	Yemen TV	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
11.938	V	Yemen R1	27500
11.938	V	Yemen R2	27500
11.957	H	LUXE.TV HD	27500
11.957	H	HD VISIO TV	27500
11.957	H	Melody Zen HD	27500
11.957	H	MelodyZen SD	27500
11.957	H	TEST	27500
11.958	H	LUXE TV HD	27500
11.958	H	HD VISIO TV	27500
11.958	H	Melody Zen HD	27500
11.958	H	MelodyZen SD	27500
11.958	H	TEST	27500
11.976	V	Al Watan Plus	27500
11.976	V	Al Watan TV	27500
11.976	V	ARai2	27500
11.996	H	Al Jazeera	27500
11.996	H	AlAlam	27500
11.996	H	AlMustakillah	27500
11.996	H	Arabsat Promotion Ch	27500
11.996	H	BBC Arabic	27500
11.996	H	CNBC Arabiya	27500
11.996	H	Family TV	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 Service	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	Test	27500
12.034	H	Qatar Radio	27500
12.034	H	Sout Al Khaleej	27500
12.034	H	Sout Al Rayan	27500
12.053	V	Addounia TV	27500
12.053	V	Al Naser Club	27500
12.053	V	AlAqsa	27500
12.053	V	ARai	27500
12.053	V	Awtan	27500
12.053	V	Jordan TV	27500
12.053	V	KBS W	27500
12.053	V	Mobile Gaming TV	27500
12.053	V	Press TV	27500
12.053	V	SAHARA TV	27500
12.053	V	Syria TV	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	4Fun TV	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	BBC World Middle E	27500
12.072	H	Funoon TV	27500
12.072	H	Live TV	27500
12.072	H	Luxe TV	27500
12.072	H	Nailat Shopping	27500
12.072	H	Test	27500
12.072	H	Zafaf	27500
12.073	H	4Fun TV	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	BBC World Middle E	27500
12.073	H	Funoon TV	27500
12.073	H	Live TV	27500
12.073	H	Luxe TV	27500
12.073	H	Nailat Shopping	27500
12.073	H	Test	27500
12.073	H	Zafaf	27500
12.092	H	AL MANAR	27500
12.092	V	AL MOJTAMA	27500
12.092	V	ARAB TV	27500
12.092	V	Dunia TV	27500
12.092	V	Fujairah Media 11	27500
12.092	V	Fujairah Media 12	27500
12.092	V	orient	27500
12.092	V	Petrogas TV	27500
12.092	V	Recruitment TV	27500
12.092	V	Shaer al Rasoul	27500
12.092	V	SMARTSWAY	27500
12.092	V	Zoal TV	27500
12.092	V	Fujairah FM Radio	27500
12.111	H	Ahlulbayt	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	V	4FUN	27500
12.130	H	Ahlulbayt	27500
12.130	H	Al Eqtisadia TV	27500
12.130	H	Al Haqiqa	27500
12.130	H	Al Motahdth	27500
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	H	Dubai One	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	H	Nilat	27500
12.130	H	Sama Dubai	27500
12.130	H	SHARAQIYA	27500
12.130	H	Shariq Alomar	27500
12.130	H	Test	27500
12.130	H	Test1	27500
12.130	H	Al Mirbad Radio	27500
12.149	H	ALBAGHDADIA	27500
12.149	H	Al Ahayat	27500
12.149	H	Arosty	27500
12.149	H	Bedayah Nesaaya TV	27500
12.149	H	Fatwa	27500
12.149	H	Info. Mohamed	27500
12.149	H	Test	27500
12.149	H	Wtanya	27500
12.149	H	Zawag	27500
12.167	V	Ghiras TV	27500
12.167	V	MTV ARABIA	27500
12.167	V	STCRK TV	27500
12.182	H	SHEBA	16200
12.182	H	TEST	16200
12.182	H	YAMANIA	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	Djibouti	27500
12.206	V	PEACE TV	27500
12.206	V	PSC	27500
12.206	V	Qatar TV	27500
12.206	V	Shada	27500
12.206	V	Sudan TV	27500
12.206	V	Tayba TV	27500
12.206	V	Zafaf	27500
12.206	V	Al-Iraqia Quran	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
12.226	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	Alawla	27500
12.284	V	Alqurain	27500
12.284	V	Douaa	27500
12.284	V	Montada	27500
12.284	V	Test6	27500
12.523	H	ETHRAA	27500
12.523	H	KTV CH1	27500
12.523	H	KTV CH2	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

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
11.012	H	SDSJ5	27500
11.012	H	AL RIYADIYAH	27500
11.055	H	AMERICA PLUS	27500
11.055	H	CNBC-US	27500
11.055	H	MUSIC NOW	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	KHALIJIYA'T	27500
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
11.055	H	EPG	27500
11.075	H	HUMAX OTA	27500
11.075	H	RADIO MOSAIC	27500
11.075	H	SDSJ1	27500
11.075	H	AL RIYADIYAH	27500
11.075	H	AMERICA PLUS	27500
11.075	H	CNBC-US	27500
11.075	H	MUSIC NOW	27500
11.075	H	SUPER COMEDY	27500
11.075	V	Al-Boshra	27500
11.075	V	Al-Habeeb-TV	27500
11.075	V	Al-Khalij	27500
11.075	V	Al-Lubnania	27500
11.075	V	Alhayat TV	27500
11.075	V	Alhayat TV1	27500
11.075	V	BNI-ALHARTH TV	27500
11.075	V	MARHABA	27500
11.075	V	Qewfee	27500
11.075	V	Rawasy-TV	27500
11.075	V	Silk-Road	27500
11.075	V	Talamiah	27500
11.075	V	Watani	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	KHALIJIYA'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
11.075	H	EPG	27500
11.075	H	HUMAX OTA	27500
11.075	H	RADIO MOSAIC	27500
11.075	H	SDSJ1	27500
11.096	H	EURONEWS	27500
11.096	H	DISCOVERY CHANNEL	27500
11.096	H	DISCOVERY SCIENCE	27500
11.096	H	DISNEY PLAYHOUSE	27500
11.096	H	FUN CHANNEL	27500
11.096	H	JSC+1	27500
11.096	H	JSC+2	27500
11.096	H	NBN PINOY NEWS	27500
11.096	H	PTEST	27500
11.096	H	STC	27500
11.096	H	TRACE	27500
11.096	H	MTV ARABIA	27500
11.096	H	SDSJ4	27500
11.585	V	Discovery-Middle-Eas	27500
11.585	V	Discovery-Travel&Liv	27500
11.585	V	ATLAS TV Or	27500
11.585	V	DM-TV	27500
11.585	V	Gunaz-TV	27500
11.585	V	Marhaba	27500
11.585	V	NBN	27500
11.585	V	New-TV	27500
11.585	V	OTV	27500
11.585	V	Supreme-Master-TV	27500
11.585	V	Polskie-Radio	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 ESPN	27500
11.604	H	ORBIT NEWS	27500
11.604	H	SUPER COMEDY +2	27500
11.604	H	TOON DISNEY	27500
11.604	H	CNNI	27500
11.604	H	SDSJ2	27500
11.623	V	Al-Khal TV	27500
11.623	V	Al-Rouh	27500
11.623	V	Al-Sahraa	27500
11.623	V	Almohim Q8	27500
11.623	V	Atlas--Original	27500
11.623	V	Bahrain TV	27500
11.623	V	Bin-Othaimeen	27500
11.623	V	Domino-kuwait_4	27500
11.623	V	Nabeha Tahalof	27500
11.623	V	NART	27500
11.623	V	Ommah 2008	27500
11.623	V	Rab3i	27500
11.623	V	Ritmo	27500
11.623	V	Salwa	27500
11.662	V	Afkar-wa-Mawaheb	27500
11.662	V	Arrai	27500
11.662	V	Domino 5	27500
11.662	V	Domino 6	27500
11.662	V	Domino 7	27500
11.662	V	Domino 8	27500
11.662	V	HG-Business	27500
11.662	V	Imtiaz	27500
11.662	V	Industry	27500
11.662	V	Karbala	27500
11.662	V	MECCA	27500
11.662	V	NEW TV	27500
11.662	V	Rayeg	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 Pinoy TV	27500
11.681	H	HISTORY CHANNEL	27500
11.681	H	HOLLYWOOD	27500
11.681	H	NBA TV	27500
11.681	H	PBO	27500
11.681	H	SERIES+4	27500
11.681	H	SUPER MOVIES+1	27500
11.681	H	TCM	27500
11.681	H	GMA LIFE TV	27500
11.681	H	SDSJ3	27500

C-Band: BADR-C
26.1 East

Freq GHz	Pol	Channel Name	Symbol rate
3.745	H	Yemen TV	3340
3.882	H	Al Jawhara	27500
3.882	H	Al Najah	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	Sayedaty	27500
3.882	H	Test	27500
3.882	H	Thane TV	27500
3.882	H	Thuraya TV	27500
3.882	H	Wazefaty	27500
3.882	H	Yara TV	27500
4.040	H	Al Ekhbaria	27500
4.040	H	Dubai Sport	27500
4.040	H	Dubai TV	27500
4.040	H	Ethiopia	27500
4.040	H	IQRA	27500
4.040	H	JSC	27500
4.040	H	JSC Sports 1	27500
4.040	H	Riyadiyah	27500
4.040	H	Saudi-1	27500
4.040	H	Saudi-2	27500
4.040	H	Ethiopia R1	27500
4.120	H	Abu Dhabi	27500
4.120	H	Al Jazeera Mubasher	27500
4.120	H	AL MONOWA	27500
4.120	H	Future TV	27500
4.120	H	Lybia	27500
4.120	H	Oman TV	27500
4.120	H	One TV	27500
4.120	H	Sudan	27500
4.120	H	Test	27500
4.120	H	Radio Orient	27500

ASTRA 2A-B-C-D
28.2 East

Freq GHz	Pol	Channel Name	Symbol rate
11.759	H	1485	27500
11.759	H	1484	27500
11.759	H	1381	27500
11.759	H	1382	27500
11.759	H	1383	27500
11.759	H	1384	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	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
11.778	V	DCS1	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	3823	29500
11.856	V	Sky Sports HD3	29500
11.856	V	Sky PremiereHD	29500
11.915	H	TV5	27500
11.915	H	DCS5	27500
11.934	V	Cust Chan Active	27500
11.934	V	Sky Cust Ch	27500
11.934	V	DCS6	27500
11.954	H	BBC NEWS 24	27500
11.954	H	BBC PARL'MNT	27500
11.954	H	T4 STRM-0	27500
11.954	H	T4 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	ParaComedy 2	27500
12.149	H	Sky Spts Xtra	27500
12.149	H	Eurosport2 UK	27500
12.149	H	Hallmark	27500
12.149	H	STtest	27500
12.149	H	SCI FI	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	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
12.246	V	Sky Bingo	27500

Freq GHz	Pol	Channel Name	Symbol rate
11.720	H	Sky Sports HD1	29500
11.720	H	Sky Sports HD2	29500
11.739	V	Bravo	27500
11.739	V	Bravo+1	27500
11.739	V	Bravo~	27500
11.739	V	Bravo~	27500
11.739	V	Challenge	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	Living~	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 Screen 1HD	29500
11.817	V	Dave	27500
11.817	V	UK Food~	27500
11.817	V	UK Gold 2~	27500
11.817	V	UK Gold~	27500
11.817	V	UK History~	27500
11.817	V	UK SG~	27500
11.817	V	UK Style~	27500
11.817	V	UK Style~~	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 Food +1	27500
11.817	V	UKTV Gardens	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&Health	27500
11.876	H	Disc.Knowledge	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
11.876	H	6200	27500
11.895	V	7042	27500
11.895	V	Mtl	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	MTV99	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	Cartoon1	27500
12.051	V	Cartoon Netwrk	27500
12.051	V	CN Too	27500
12.051	V	Cni	27500
12.051	V	Toonami	27500
12.051	V	CNN	27500
12.051	V	Nuts TV	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	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
12.129	V	Vitality	27500
12.129	V	Teletext Holidays &	27500
12.460	V	Channel 4 +1	27500
12.480	V	Brit Asia TV	27500
12.480	V	Red	27500

Freq GHz	Pol	Channel Name	Symbol rate
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 Docs+1~	27500
11.993	H	UKTV Drama+1	27500
11.993	H	UKTV Food	27500
11.993	H	UKTV Gold +1	27500
11.993	H	Uktv Gold+1~	27500
11.993	H	UKTV H'tory+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 3	27500
12.012	V	Sky Bet, Vegas & Sky	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	Vegas Rainbow Riches	27500
12.012	V	eSales Test	27500
12.012	V	iSAles	27500
12.012	V	Sky Bingo	27500
12.012	V	Sky Customer Service	27500
12.012	V	Sky Shop Test	27500
12.012	V	Vegas Portal II	27500
12.012	V	WML IA Test	27500
12.070	H	Sky Spts Xtra	27500
12.070	H	FOX News	27500
12.070	H	Kerrang!	27500
12.070	H	Magic	27500
12.070	H	SCI FI +1	27500
12.070	H	Sky Arts	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	Smash Hits!	27500
12.070	H	The Hits	27500
12.070	H	Vegas Casino	27500
12.070	H	Vegas Hit It Poker	27500
12.070	H	Vegas Wanted DOA	27500
12.070	H	DCS24	27500
12.090	V	STAR News	27500
12.090	V	STAR Plus	27500
12.090	V	DCS8	27500
12.090	V	IEPG data 8	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	Sky Screen 1	27500
12.285	V	Sky Screen 2	27500
12.285	V	yd1ee6	27500
12.285	V	yd2ee6	27500
12.285	V	yd3ee6	27500
12.285	V	yd4ee6	27500
12.285	V	(Empty)	27500
12.285	V	Nat Geo App	27500
12.285	V	Games Slot 15	27500
12.383	H	MMS 3	27500
12.383	H	MMS 7	27500
12.383	H	(Empty)	27500
12.383	H	3889	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	iTV Stream 3/36	27500
12.402	V	12198	27500
12.461	H	Portal Video 7	27500
12.461	H	Sky Chat	27500
12.461	H	WML IA Application	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	TLM Portal Redirecto	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	WML IA Application	27500
12.461	H	Wonder Perks	27500
12.461	H	Camelot Info	27500
12.461	H	Camelot Main	27500
12.461	H	i-Service App	27500
12.461	H	iSales Hardware	27500
12.461	H	Pin Reminder Service	27500
12.461	H	Sky Bet Active	27500
12.461	H	Sky Credit Card 1	27500
12.461	H	Sky Credit Card 2	27500
12.461	H	Sky Customer Service	27500
12.461	H	TV Keys / Miniweb	27500
12.461	H	TV Picks	27500

Freq GHz	Pol	Channel Name	Symbol rate
11.973	V	AlphaEtcPun	27500
11.973	V	MAX	27500
11.973	V	Sony TV Asia	27500
11.973	V	UKTV Style 2	27500
11.973	V	Zee Cinema	27500
11.973	V	Zee Gujarati	27500
11.973	V	Zee TV	27500
11.973	V	U Save. TV	27500
11.973	V	Zee Music	27500
12.031	H	bid tv	27500
12.031	H	Ideal World	27500
12.031	H	price-drop tv	27500
12.031	H	Q_I	27500
12.031	H	Q_I dir	27500
12.031	H	QVC	27500
12.031	H	QVC Barker	27500
12.031	H	QVC TSVNOW	27500
12.031	H	speedauctiontv	27500
12.031	H	Teachers TV	27500
12.110	H	Sky Sports 3	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	TCM 2	27500
12.110	H	Games Slot 23	27500
12.110	H	Games Slot 24	27500
12.110	H	DCS22	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 Casino 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	SkyVenue	27500
12.265	H	SP2	27500
12.265	H	(Empty)	27500
12.265	H	1780	27500
12.265	H	Vegas Video Poker	27500
12.305	H	1429	27500
12.305	H	9355	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 Showcase	27500
12.305	H	SkyPoker.com	27500
12.324	V	Discovery HD	29500
12.324	V	HD Retail Info	29500
12.324	V	SBO HD2	29500
12.324	V	Sky Arts HD	29500
12.344	H	Sky One HD	29500
12.344	H	Sky Screen 2HD	29500
12.363	V	History HD	29500
12.363	V	Nat Geo HD	29500
12.363	V	SBO HD1	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

Freq GHz	Pol	Channel Name	Symbol rate
10.964	H	Five	22000
10.964	H	Five Life	22000
10.964	H	Five Life	22000
10.964	H	Five US	22000
10.964	H	Five US +1	22000

Freq GHz	Pol	Channel Name	Symbol rate
10.714	H	G41	22000
10.714	H	ITV1 Anglia S	22000
10.714	H	ITV1 Anglia W	22000
10.714	H	ITV1 Central SW	22000
10.714	H	ITV1 TT N	22000
10.714	H	ITV1 TT S	22000
10.714	H	ITV2+1	22000
10.714	H	ITV Stream 3/41	22000
10.714	H	TTG41	22000
10.714	H	10198	22000
10.729	V	8389	22000
10.729	V	E4	22000
10.729	V	E4+1	22000
10.729	V	E6Ad	22000
10.729	V	More4	22000
10.729	V	More4 +1	22000
10.729	V	8350	22000
10.729	V	FF TEST1	22000
10.729	V	Film4	22000
10.729	V	Film4 +1	22000
10.729	V	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	BBC 1 London	22000
10.773	H	BBC 2 England	22000
10.773	H	BBC 1 NI	22000
10.773	H	BBC FOUR	22000
10.773	H	BBC TES 3	22000
10.773	H	BBC THREE	22000
10.773	H	CBBC Channel	22000
10.773	H	CBeebies	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 SLSport	22000
10.803	H	BBC R5 Live	22000
10.803	H	ETV3	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	ITV Stream 2	22000
10.847	V	6945	22000
10.847	V	BBC 1 CI	22000
10.847	V	BBC 1 East (W)	22000
10.847	V	BBC HD	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	ArrayRock	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	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
10.862	H	Yarr	22000
10.862	H	Vegas 3 Card poker	22000
10.862	H	Vegas Blackjack	22000
10.862	H	Vegas Caribbean Stud	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	SkyRealLives 2	22000
10.877	V	Vegas Juicy Jackpot	22000
10.891	H	G53	22000
10.891	H	ITV1 BorderSco	22000
10.891	H	ITV1 Mer N	22000
10.891	H	ITV1 Mer SE	22000
10.891	H	ITV1 Meridian E	22000
10.891	H	ITV1 Meridian S	22000
10.891	H	ITV1 Yorks E	22000
10.891	H	ITV1 Yorks W	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

Freq GHz	Pol	Channel Name	Symbol rate
11.222	H	DMAX+1	27500
11.222	H	CelebrityShop	27500
11.222	H	Clubland TV	27500
11.222	H	Chat Box	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	SupremeMastr	27500
11.222	H	UCB TV	27500
11.222	H	Urban TV	27500
11.222	H	Wonderful	27500
11.222	H	YouPlay TV2	27500
11.222	H	Zone Reality X	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	Sahara Filmy	27500
11.224	V	Sahara One	27500
11.224	V	AIT	27500
11.224	V	Jazeerachildren	27500
11.224	V	movies4men 2	27500
11.224	V	Music TV	27500
11.224	V	Pitch TV	27500
11.224	V	Pitch World	27500
11.224	V	PTV Global	27500
11.260	V	Audi Channel	27500
11.260	V	Fight Network	27500
11.260	V	Gospel Channel	27500
11.260	V	Mana Telugu	27500
11.260	V	Open Access	27500
11.260	V	Open Access 2	27500
11.260	V	Open Access 3	27500
11.260	V	Over 18 TV	27500
11.260	V	Passion TV	27500
11.260	V	PitchGaming	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	Aastha TV	27500
11.307	V	Bravo 2	27500
11.307	V	Challenge+1	27500
11.307	V	DMAX+2	27500
11.307	V	LIVING	27500
11.307	V	Motors TV	27500
11.307	V	Nickelodeon	27500
11.307	V	Trouble +1	27500
11.307	V	Virgin 1	27500
11.307	V	Virgin 1+1	27500
11.307	V	XPLICIT XXX	27500
11.307	V	BET	27500
11.307	V	Jewellery Ch.	27500
11.307	V	JJB Sports TV	27500
11.307	V	JML	27500
11.307	V	propeller	27500
11.307	V	Simply Ideas	27500
11.307	V	TV Warehouse1	27500
11.307	V	Vinapptv	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	House Of Fun	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 Europe	27500
11.345	H	Disc.RT+1	27500
11.345	H	Discovery+1.5	27500
11.345	H	Nick Jr. 2	27500
11.345	H	Bangla TV	27500
11.345	H	Bliss Kiss TV	27500
11.345	H	DM Gold	27500
11.345	H	Essex Babes	27500
11.345	H	LivexxxBabes	27500
11.345	H	Price Crash 2	27500
11.345	H	Real Estate TV	27500
11.345	H	Wedding TV	27500
11.389	H	Nick Jr	27500
11.389	H	channel U	27500
11.389	H	Entrepreneur	27500
11.389	H	Gems TV2	27500
11.389	H	MATV National	27500
11.389	H	Northern Birds	27500
11.389	H	Performance	27500
11.389	H	Sunrise TV	27500
11.389	H	The Other Side	27500
11.389	H	Travel Ch +1	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 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	Playboy One	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	InsightRadio	27500
11.390	V	MOS Radio	27500
11.390	V	Pulse Rated	27500
11.390	V	Raaj Radio	27500
11.390	V	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	VirginGrve	27500
11.390	V	VirginXtrme	27500
11.390	V	WRN Europe	27500
11.390	V	Yorkshire R	27500
11.426	V	Diva TV	27500
11.426	V	SouthForYou	27500
11.426	V	AAG	27500
11.426	V	ARY QTV	27500
11.426	V	Bloomberg	27500
11.426	V	DD-India	27500
11.426	V	GEO UK	27500
11.426	V	Glory TV	27500
11.426	V	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

Freq GHz	Pol	Channel Name	Symbol rate
11.469	H	(Empty)	27500
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	(Empty)	27500
11.469	H	TVEi	27500
11.469	H	Vegas House of Horro	27500
11.469	H	Vegas Kung Fu Cash	27500
11.469	H	Directgov	27500
11.469	H	Sky Customer Service	27500
11.469	H	Vegas Chamber of Gol	27500
11.488	V	Channel Punjab	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	revelation	27500
11.488	V	Tease Me 2	27500
11.508	H	FX+1	27500
11.508	H	Pub Channel	27500
11.508	H	1784	27500
11.508	H	1787	27500
11.508	H	SADT	27500
11.508	H	8N2	27500
11.508	H	9328	27500
11.508	H	EIA2 Test	27500
11.508	H	EIA2 Test 3	27500
11.508	H	EIA2 Test 4	27500
11.508	H	EIA2 Test 5	27500
11.508	H	EIA2 Test 6	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	Vegas Elvis	27500
11.508	H	ParaComedy 1	27500
11.527	V	Channel M	27500
11.527	V	DD-News	27500
11.527	V	GayDateTV	27500
11.527	V	NHS 13	27500
11.527	V	NHS V1	27500
11.527	V	NHS V1t	27500
11.527	V	NHS V2	27500
11.527	V	NHS V2t	27500
11.527	V	Thomas Cook	27500
11.527	V	NHS A1	27500
11.527	V	NHS A2	27500
11.527	V	NHS Direct Interacti	27500
11.546	H	ARY Digital	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	cso T	27500
11.546	H	Faith	27500
11.546	H	Gala TV	27500
11.546	H	GEO News	27500
11.546	H	Home&Travel	27500
11.546	H	Shop on TV	27500
11.546	H	Wine TV	27500
11.546	H	YouPlay TV	27500
11.565	V	E4	27500
11.565	V	AbbeyDal	27500
11.565	V	E-ON Dal	27500
11.565	V	Film DAL	27500
11.565	V	A Homes Dal	27500
11.565	V	Portal Video 6	27500
11.565	V	Sky Games	27500
11.565	V	South Park val	27500
11.565	V	Movie Quiz	27500
11.565	V	Remote Control Look	27500
11.565	V	Sky Anytime Dal	27500
11.565	V	Camelot Test ABB	27500
11.565	V	Camelot Test Info	27500
11.565	V	Cinema Guide ABB	27500
11.565	V	KOOPID ABB	27500
11.565	V	LADBROKES ABB	27500
11.565	V	Local authority	27500
11.565	V	Sky Bet Channel Fou	27500
11.565	V	Sky Bet At The Races	27500
11.585	H	LivepoolFCTV	27500
11.585	H	NASN	27500
11.585	H	Arsenal TV	27500
11.585	H	Racing UK	27500
11.585	H	Racing World	27500
11.585	H	Setanta Ireland	27500
11.585	H	Setanta Sports	27500
11.604	V	Biography	27500
11.604	V	History	27500
11.604	V	History +1 hour	27500
11.604	V	Sky Mdn Greats	27500
11.604	V	Sky Prem+1	27500
11.604	V	Games Slot 16	27500
11.604	V	Games Slot 17	27500
11.604	V	Games Slot 18	27500
11.604	V	Games Slot 19	27500
11.604	V	Games Slot 20	27500
11.604	V	Games Slot 21	27500
11.604	V	Games Slot 22	27500
11.604	V	Wap Casino One	27500
11.623	H	BabyTV	27500
11.623	H	50849	27500
11.623	H	Abu Dhabi TV	27500
11.623	H	Ape TV	27500
11.623	H	Bedroom TV	27500
11.623	H	Horse & Country	27500
11.623	H	Live XXX	27500
11.623	H	PCNE Chinese	27500
11.623	H	PTV Prime	27500
11.623	H	Russia Today	27500
11.623	H	50850	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
11.623	H	Wired Ocean	27500
11.642	V	Anime Central	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	NME TV	27500
11.642	V	POP	27500
11.642	V	Pop +1	27500
11.642	V	Scuzz	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	Live Roulette	27500
11.662	H	LOVEWORLD TV	27500
11.662	H	mta-muslim tv	27500
11.662	H	Word Network	27500
11.662	H	Ladbrokes Roulette	27500
11.662	H	PlayJam Games	27500
11.662	H	Ladbrokes Betting &	27500
11.662	H	Ladbrokes Blackjack	27500
11.662	H	Ladbrokes test	27500
11.662	H	Ladbrokes Test APP3	27500
11.681	V	Extreme Sports	27500
11.681	V	Al Jazeera Eng	27500
11.681	V	FriendlyTV	27500
11.681	V	GOD Channel	27500
11.681	V	GOD Europe	27500
11.681	V	HollywoodTV	27500
11.681	V	Islam Channel	27500
11.681	V	Peace TV	27500
11.681	V	TBN Europe	27500

Freq GHz	Pol	Channel Name	Symbol rate
12.523	H	ATTM1	27500
12.523	H	BEN	27500
12.523	H	DAYSTAR	27500
12.523	H	EWTN	27500
12.523	H	Gems TV	27500
12.523	H	Information TV	27500
12.523	H	JML Choice	27500
12.523	H	JML Innovation	27500
12.523	H	JML Solutions	27500
12.523	H	Life One	27500
12.523	H	movies4men	27500
12.523	H	movies4men+1	27500
12.523	H	Price Crash	27500
12.523	H	Reality TV.	27500
12.523	H	Record TV	27500
12.523	H	Stop + Shop	27500
12.523	H	TV SHOP	27500
12.523	H	TV Warehouse	27500
12.523	H	TVW Select	27500
12.523	H	Zone Reality	27500
12.523	H	Akash Radio	27500
12.523	H	Asian Gold	27500
12.523	H	Capital	27500
12.523	H	Choice FM	27500
12.523	H	Classic FM	27500
12.523	H	EWTN	27500
12.523	H	FUN Radio	27500
12.523	H	Gold	27500
12.523	H	Hot Digital	27500
12.523	H	Kismat	27500
12.523	H	Liberty	27500
12.523	H	Planet Rock	27500
12.523	H	RTI Radio	27500
12.523	H	Solar Radio	27500
12.523	H	Sukh Sagar	27500
12.523	H	theJazz	27500
12.523	H	UCB Bible	27500
12.523	H	UCB Insp	27500
12.523	H	UCB Talk	27500
12.523	H	UCB UK	27500
12.523	V	FM	27500
12.560	V	Arsenal Replay	27500
12.560	V	BabyFirst	27500
12.560	V	Celtic TV	27500
12.560	V	Rangers TV	27500
12.560	V	Setanta Golf	27500
12.560	V	Setanta News	27500
12.560	V	Setanta Sports1	27500
12.560	V	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	fame TV	27500
12.560	V	JML Lifestyle	27500
12.560	V	O'seasproperty	27500
12.560	V	Real Estate +1	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
12.607	V	Rush HD	27500
12.607	V	55300	27500
12.607	V	55305	27500
12.607	V	55315	27500
12.607	V	55320	27500
12.607	V	Gay TV	27500
12.607	V	redhot 40+	27500
12.607	V	redhot amateur	27500
12.607	V	redhot dd	27500
12.607	V	redhot fetish	27500
12.607	V	redhot girl girl	27500
12.607	V	redhot just 18	27500
12.607	V	redhot raw	27500
12.607	V	redhot wives	27500
12.607	V	Television X	27500
12.607	V	Television X 2	27500
12.607	V	Television X 3	27500
12.607	V	Television X4	27500
12.607	V	55310	27500
12.643	H	Fantasy 1	27500
12.643	H	Fantasy 2	27500
12.643	H	Luxe TV	27500
12.643	H	Luxe TV HD	27500
12.643	H	Music India	27500
12.643	H	Noor TV	27500
12.643	H	PitchGaming2	27500
12.643	H	Pulse	27500

ARABSAT 2B
30.5 East

Freq GHz	Pol	Channel Name	Symbol rate
12.582	V	ART-SNG 2	4220
12.598	V	8N SPACE CHANNEL	4220
12.661	V	Almajd 10	27500
12.661	V	Almajd 1	27500
12.661	V	Almajd 5	27500
12.661	V	Almajd 2	27500
12.661	V	Almajd 7	27500
12.661	V	Almajd 8	27500
12.661	V	Almajd 9	27500
12.661	V	Feeds	27500
12.661	V	Test	27500
12.661	V	Almajd 1	27500

TV Digital | Radio Digital | Data Channel | TV Analog | Radio Analog

Freq GHz	Pol	Channel Name	Symbol rate
12.661	V	Almajd 2	27500
12.661	V	Almajd 3	27500
12.661	V	Almajd 4	27500
12.661	V	SWDL 07/20	27500
12.740	V	OMAN TV SPECIAL	5084
12.740	V	OMAN TV CH1	5084
12.740	V	OMAN RADIO FEEDS	5084

INTELSAT 802/EUROBIRD 3
33.0 East

EUB003KA

[illegible]

EUB003KB

[illegible]

[illegible]

Europe
EUTELSAT SESAT, W4
36.0 East

EUTW4EU

[illegible]

[illegible]

Africa
EUTELSAT SESAT, W4
36.1 East

EUTW4AF

[illegible]

[illegible]

C-Band: PAKSAT 1
38.0 East

PAK001CB

[illegible]

PAK001CS

[illegible]

Europe
HELLAS SAT 2
39.0 East

HEL002FI

[illegible]

[illegible]

HEL002ME

[illegible]

[illegible]

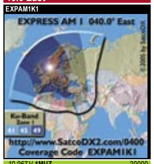
South Africa
HELLAS SAT 2
39.1 East

HEL002SI

[illegible]

EXPRESS AM1
40.0 East

EXPAM1K1



[illegible]

C-Band: EXPRESS AM1
40.1 East

EXPAM1C1

[illegible]

TURKSAT 1C, 2A
42.0 East

TUR01CWB

[illegible]

TUR02AKE

[illegible]

TUR02AKW

[illegible]

TUR02AS1

[illegible]

TURKSAT 2A
42.1 East

EAS001KE

[illegible]

EAS001KW

[illegible]

Freq Pol	Channel Name	Symbol rate
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	Mcm Euroturk	24444
11.804 V	POWERTÜRK 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 TÜRK 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 TÜRK	24444
11.804 V	SLOW TÜRK	24444
11.804 V	İSTANBUL FM	24444
11.804 V	(Empty)	24444
11.839 V	TÜRKMEN 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
11.892 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	CYES TEST	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
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	3335
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	Guniz TV	2222
12.506 V	Private TV	2222

EAS001S1


EURASIASAT 1 042.0° East — http://www.SatcoDX.com/0420 Coverage Code EAS001S1

Freq 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	KAL TV	3125
12.540 H	EUROTURK	3125
12.590 V	LIFE CHANNEL	3002
12.595 V	Rustavi 2	3125
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	LULI	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 YESILCAM	22500
12.652 H	D COCUK	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
12.652 H	LOCA PORTAL	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	2285
12.695 H	Nur TV	2285
12.695 H	Nur Radio	2285
12.699 H	Ege TV	2400
12.699 H	Radio Ege	2400
12.702 H	ULUSAL TV	2285
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

INT012SA


INTELSAT 12 045.0° East — http://www.SatcoDX.com/0450 Coverage Code INT012SA

Freq Pol	Channel Name	Symbol rate
11.452 H	Asianet	3254
11.452 H	TELEMEDIA TELEPOR	3254
11.461 H	Skytrain	5926
11.461 H	Spare	5926
11.470 H	URBAN_BREW 2	2894
11.483 H	TADIRAN SCOPUS	3100

India

INTELSAT 12

45.1 East

INT012IN


INTELSAT 12 045.0° East — http://www.SatcoDX.com/0450 Coverage Code INT012IN

Freq Pol	Channel Name	Symbol rate
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	ITN	27680
11.468 V	MTV	27680
11.468 V	NEO Sports Plus	27680
11.468 V	Nickelodeon	27680
11.468 V	POGO	27680
11.468 V	Ranaroo	27680
11.468 V	Rupavahini	27680
11.468 V	Shruthi	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	Islam channel	27680
11.468 V	The Buddhist	27680
11.509 V	CNBC-ISLAMABAD	1955
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
11.591 V	Code Download	27689
11.673 V	Animal Planet	27680
11.673 V	AustraliaNetwork	27680
11.673 V	CITI Hitz	27680
11.673 V	Discovery	27680
11.673 V	ESPN	27680
11.673 V	History	27680
11.673 V	NatGEO	27680
11.673 V	NatGEO Adventure	27680
11.673 V	Neo Sports	27680
11.673 V	SET	27680
11.673 V	Star Plus	27680
11.673 V	Star Sports	27680
11.673 V	Ten Sports	27680
11.673 V	Travel & Living	27680
11.673 V	Zee Cafe	27680
11.673 V	Zee Trendz	27680
11.673 V	Zee TV	27680
11.673 V	Zone Reality	27680
12.707 V	Control	3618
12.707 V	Data	3618
12.707 V	PCR	3618

Europe

INTELSAT 12

45.2 East

INT012KE


INTELSAT 12 045.0° East — http://www.SatcoDX.com/0450 Coverage Code INT012KE

Freq Pol	Channel Name	Symbol rate
11.550 V	Bridge TV	27500
11.550 V	ESPN	27500
11.550 V	Feniks-Art	27500
11.550 V	Israel + Russia	27500
11.550 V	MEZZO	27500
11.550 V	Sarafan	27500
11.550 V	Travel Channel	27500
11.550 V	TV Centr Internation	27500
11.550 V	TV XXI	27500
11.550 V	WorldMadeChannel	27500
11.550 V	Dorozhnoe Radio	27500
11.590 V	Discovery HD	30000
11.590 V	Discovery HD Polish	30000
11.590 V	Disc Iberia Por	30000
11.590 V	Disc Iberia Sp	30000
11.590 V	Disc Iberia Sp Por	30000
11.590 V	Discovery Historia	30000
11.590 V	Discovery Hungary	30000
11.590 V	Discovery Russia	30000

Coming Soon

Freq Pol	Channel Name	Symbol rate
11.591 V	Discovery HD	30000
11.591 V	Discovery HD Polish	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

C-Band: YAMAL 202

49.0 East

YAM202CB


YAMAL 202 049.0° East — http://www.SatcoDX.com/0490 Coverage Code YAM202CB

Freq Pol	Channel Name	Symbol rate
3.585 L	TURA_TV	3215
3.597 L	TV ZVEZDA + 2	2895
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	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
3.793 L	NOVY VEK	1800
3.909 L	VTC YAMAL	1356

Freq Pol	Channel Name	Symbol rate
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 TV	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
3.987 L	TV-UNIVERSITET	2150
4.068 L	Feed (FEED-1)	29755
4.068 L	Feed (FEED-2)	29755
4.068 L	Feed (ts)	29755

EXPRESS AM22/SESAT 2

53.0 East

EXPA22K1


EXPRESS-AM22 053.1° East — http://www.SatcoDX.com/0531 Coverage Code EXPA22K1

Freq Pol	Channel Name	Symbol rate
11.682 V	Limar TV	5000
11.682 V	Tolo TV	5000

EXPA22K2


EXPRESS-AM22 053.1° East — http://www.SatcoDX.com/0531 Coverage Code EXPA22K2

Freq Pol	Channel Name	Symbol rate
10.974 H	5 Channel	8150
10.974 H	DVB-RCS Data	8150
11.022 H	SGU Internet	8888
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
11.044 V	DATA CTC	44950
11.095 V	NTN	6400
11.095 V	UTR	6400
11.095 V	RUI2	6400
11.095 V	UR1	6400
11.124 V	Data services	7590
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	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	ERTU	30000
12.664 V	CH2-SCR	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	Ch-4	7086
12.741 H	Service 2	7086
12.741 H	test-e	7086

EXPRESS AM22/SESAT 2

53.1 East

EXPA22K1


EXPRESS-AM22 053.1° East — http://www.SatcoDX.com/0531 Coverage Code EXPA22K1

Freq Pol	Channel Name	Symbol rate
11.682 V	Limar TV	5000
11.682 V	Tolo TV	5000

EXPA22K2


EXPRESS-AM22 053.1° East — http://www.SatcoDX.com/0531 Coverage Code EXPA22K2

Freq Pol	Channel Name	Symbol rate
10.974 H	5 Channel	8150
10.974 H	Kanal 5	8150
10.974 H	DVB-RCS Data	8150
11.022 H	SGU Internet	8888
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
11.044 V	DATA CTC	44950
11.095 V	NTN	6400
11.095 V	UTR	6400
11.095 V	RUI2	6400
11.095 V	UR1	6400
11.124 V	Data services	7590
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

INS03ECI


INSAT 3E 055.0° East — http://www.SatcoDX.com/0550 Coverage Code INS03ECI

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

BONUM 1

56.0 East

BON001KU


BONUM 1 056.0° East — http://www.SatcoDX.com/0560 Coverage Code BON001KU

Freq 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

NSS703EH


NSS-703 057.0° East — http://www.SatcoDX.com/0570 Coverage Code NSS703EH

Freq Pol	Channel Name	Symbol rate
3.751 R	SUN TV	13500
3.751 R	test	13500
3.751 R	UDAYA II	13500
3.792 R	ZEE TELUGU	3333
3.873 R	JESUS-TV	2963
3.981 R	ADITHYA TV	28000
3.981 R	GCV	28000
3.981 R	GEMINI TV	28000
3.981 R	K TV	28000
3.981 R	SUN MUSIC	28000
3.981 R	SURJO	28000
3.981 R	TEJAN NEWS	28000
3.981 R	TEJA TV	28000
3.981 R	UDAYA NEWS	28000
3.981 R	UDAYA TV	28000
3.981 R	USHE TV	28000
3.981 R	KIRAN TV	28000
3.981 R	SUN NEWS	28000
3.981 R	SUN TV	28000
3.981 R	SURYA TV	28000
3.981 R	SURYAN FM	28000

NSS703EU


NSS-703 057.0° East — http://www.SatcoDX.com/0570 Coverage Code NSS703EU

Freq Pol	Channel Name	Symbol rate
11.507 V	B-SKY-B	2917
12.551 V	bTV	9404
12.551 V	eUrotic ASTRA	9404
12.551 V	VTK	9404
12.551 V	BRAVO Radio	9404

NSS703GL


NSS-703 057.0° East — http://www.SatcoDX.com/0570 Coverage Code NSS703GL

Freq Pol	Channel Name	Symbol rate
4.055 R	AETN TV 340	25994
4.055 R	Al Hurra TV 150	25994
4.055 R	Ch. 1 - Default	25994
4.055 R	IBB OS Download 8	25994
4.055 R	IBB OS Download 9	25994
4.055 R	VOA IOR TV 420	25994
4.055 R	Farda Radio 448	25994
4.055 R	Farda Radio 456	25994
4.055 R	IBB VOA RFE/RL Ra	25994
4.055 R	IBB VOA RFE/RL Ra	25994
4.055 R	IBB VOA RFE/RL Ra	25994
4.055 R	IBB VOA RFE/RL Ra	25994
4.055 R	IBB VOA RFE/RL Ra	25994
4.055 R	IBB VOA RFE/RL Ra	25994
4.055 R	IBB VOA RFE/RL Ra	25994
4.055 R	IBB VOA RFE/RL Ra	25994
4.055 R	RFA Radio 436	25994
4.055 R	RFA/VOA Radio 437	25994
4.055 R	Sawa Djibouti 421	25994
4.055 R	Sawa Egypt Radio 452	25994
4.055 R	Sawa Egypt/Gulf Radi	25994
4.055 R	Sawa Gulf Radio 453	25994
4.055 R	Sawa Gulf/VOA Djib	25994
4.055 R	Sawa Iraq / Iraq N-S	25994
4.055 R	Sawa Lebanon Radio 4	25994
4.055 R	Sawa N. Africa Radio	25994
4.055 R	Sawa Sudan Radio 455	25994
4.055 R	VOA Djibouti/Farda	25994
4.055 R	VOA/Sawa Iraq Radi	25994
4.055 R	VOA/Sawa Lebanon R	25994
4.055 R	VOA/Sawa Morocco	25994
4.066 L		6600
4.066 L	MPEG TEST SERVICE	6600

NSS703NW


NSS-703 057.0° East — http://www.SatcoDX.com/0570 Coverage Code NSS703NW

Freq Pol	Channel Name	Symbol rate
3.910 L	TV	2894
3.913 R	SATV	2222
3.932 L	BTV	2894

INTELSAT 904

60.0 East

INT904K1


INTELSAT 904 060.0° East — http://www.SatcoDX.com/0600 Coverage Code INT904K1

Freq Pol	Channel Name	Symbol rate
11.093 V	Nika TV	3980
11.093 V	Mtiebiskia 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
11.554 V	Data service	27500

INT904K2


INTELSAT 904 060.0° East — http://www.SatcoDX.com/0600 Coverage Code INT904K2

Freq 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

INT902CG


INTELSAT 902 062.0° East — http://www.SatcoDX.com/0620 Coverage Code INT902CG

Freq 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 3	31530
4.180 L	Taiwan Radio	31530

INT902K1


INTELSAT 902 062.0° East — http://www.SatcoDX.com/0620 Coverage Code INT902K1

Freq Pol	Channel Name	Symbol rate
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	3610
11.088 V	Yazd TV	3610
11.093 V	Kerman TV	3610
11.103 V	Fars	10000
11.103 V	Fars TV	10000
11.103 V	feed	10000
11.103 V	khalij fars(T)	10000

INT902K2


INTELSAT 902 062.0° East — http://www.SatcoDX.com/0620 Coverage Code INT902K2

Freq Pol	Channel Name	Symbol rate
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

INT902SE


INTELSAT 902 062.0° East — http://www.SatcoDX.com/0620 Coverage Code INT902SE

Freq Pol	Channel Name	Symbol rate
3.814 L	NTV (Kenya)	3852
3.814 L	Nation Radio	3852
3.837 L	Citizen TV	2466
3.927 L	M-Net	
3.967 L	ETV	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

INT902WH


INTELSAT 902 062.0° East — http://www.SatcoDX.com/0620 Coverage Code INT902WH

Freq Pol	Channel Name	Symbol rate
3.938 R	MBC (Mauritius)	2964

C-Band: INTELSAT 906

64.0 East

INT906CG


INTELSAT 906 064.0° East — http://www.SatcoDX.com/0640 Coverage Code INT906CG

Freq Pol	Channel Name	Symbol rate
4.094 L	Atlantic	3680
4.094 L	News	3680
4.094 L	Sports	3680

INT906EH


INTELSAT 906 064.0° East — http://www.SatcoDX.com/0640 Coverage Code INT906EH

Freq Pol	Channel Name	Symbol rate
3.884 L	Star TV	3271
3.884 L	Radio Free Africa	3271
3.891 L	TVT	4445

INT906WH


INTELSAT 906 064.0° East — http://www.SatcoDX.com/0640 Coverage Code INT906WH

Freq Pol	Channel Name	Symbol rate
3.642 R	Ch.10	13330
3.642 R	EATV	13330
3.642 R	ITV1	13330
3.642 R	PULSE	13330
3.653 R	TVM MZ	5632
3.721 R	MOI	4882

Freq Pol	Channel Name	Symbol rate
3.780 R	AGAPE TV	3000
3.968 R	CHILD	10162
3.968 R	JCTV	10162
3.968 R	TBN	10162
3.968 R	TCC	10162
4.000 R	ETC ALPHA PUNJABI	27500
4.000 R	ETC Alpha Punjabi	27500
4.000 R	ZEE CINEMA - UK	27500
4.000 R	ZEE CINEMA- USA	27500
4.000 R	ZEE GUJRATI - UK	27500
4.000 R	ZEE GUJARATI - USA	27500
4.000 R	ZEE MUSIC- UK	27500
4.000 R	ZEE RUSSIA	27500
4.000 R	ZEE TV - South Afr	27500
4.000 R	ZEE TV - USA	27500
4.000 R	ZEE TV- UK	27500

C-Band: INTELSAT 704

66.0 East

INT704EH


INTELSAT 704 066.0° East — http://www.SatcoDX.com/0660 Coverage Code INT704EH

Freq 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
4.055 R	DASSAULT-IS704	27500
4.055 R	KATELCO-ALA	27500
4.055 R	KATELCO-ASTA	27500

South Africa

INTELSAT 7, 10

68.5 East

INT007SA


INTELSAT 7 068.5° East — http://www.SatcoDX.com/0685 Coverage Code INT007SA

Freq Pol	Channel Name	Symbol rate
10.970 V	AfMag	30000
10.970 V	CNN	30000
10.970 V	CSN	30000
10.970 V	EuroN	30000
10.970 V	Home	30000
10.970 V	KykNT	30000
10.970 V	Rhema	30000
10.970 V	SkyN	30000
10.970 V	SS6	30000
10.970 V	SS7	30000
10.970 V	SSupd	30000
10.970 V	ZeeTV	30000
10.970 V	Ksmos	30000
10.970 V	Verit	30000
10.970 V	Decoder Care	30000
10.970 V	INT2	30000
10.970 V	SSVirtual	30000
11.010 H	3SAT	30000
11.010 H	ANMAX	30000
11.010 H	ARD	30000
11.010 H	Astro	30000
11.010 H	B4U	30000
11.010 H	BBC F	30000
11.010 H	DW	30000
11.010 H	ERT	30000
11.010 H	FIN24	30000
11.010 H	FTV	30000
11.010 H	Fut	30000
11.010 H	Games	30000
11.010 H	IQRAA	30000
11.010 H	Learn	30000
11.010 H	LTV	30000
11.010 H	MK	30000
11.010 H	NEW24	30000
11.010 H	PROT	30000
11.010 H	RAI	30000
11.010 H	RTL	30000
11.010 H	RTPI	30000
11.010 H	SABC1	30000
11.010 H	SABC2	30000
11.010 H	SABC3	30000
11.010 H	SAT1	30000
11.010 H	ZDF	30000

C-Band: INTELSAT 7,10

68.6 East

INT007CV


INTELSAT 7 068.6° East — http://www.SatcoDX.com/0686 Coverage Code INT007CV

Freq Pol	Channel Name	Symbol rate
3.540 V	Sin-Pakistan	3305
3.662 V	Aapna Des	14074
3.662 V	DM Digital World	14074
3.662 V	DM Islam TV	14074
3.662 V	Love World	14074
3.662 V	Noor TV	14074
3.662 V	View Asia	14074
4.003 H	Service 2	2963
4.011 V	PTV	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

C-Band: INTELSAT 10 (68.5 East)

INT010AV


INTELSAT 10 068.5° East — http://www.SatcoDX.com/0685 Coverage Code INT010AV

Freq Pol	Channel Name	Symbol rate
12.522 H	Fox Sports	26657
12.522 H	Arsenal/Setanta News	26657
12.522 H	NTA+	26657
12.522 H	Teletoon	26657
12.522 H	Zee Cinema	26657
12.522 H	France 24	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	OMEGA	26657
12.562 H	Press TV	26657
12.562 H	Supreme Master TV	26657
12.562 H	Wonderful	26657
12.562 H	1Africa	26657
12.562 H	CVC Africa	26657
12.575 V	Mana 2	3378
12.575 V	Mana Africa	3378
12.722 H	African Movie/Ftv	26657
12.722 H	AIT	26657
12.722 H	Baby TV	26657
12.722 H	BBCW	26657
12.722 H	e.tv	26657
12.722 H	Fashion TV	26657
12.722 H	MCM TOP	26657
12.722 H	MGM	26657
12.722 H	NatGeo Adventure	26657
12.722 H	Setanta	26657
12.722 H	Trace TV	26657
12.722 V	CNBC Africa	26656
12.722 V	CTV	26656
12.722 V	G	26656
12.722 V	HOPE	26656
12.722 V	Ps91	26656
12.722 V	SANI	26656
12.722 V	TCT	26656
12.722 V	ChAfr	26656
12.722 V	Future10	26656
12.722 V	Future11	26656
12.722 V	Future12	26656
12.722 V	Future7	26656
12.722 V	Future8	26656
12.722 V	Future9	26656
12.722 V	RPTA	26656
12.722 V	Spare5	26656
12.722 V	TMR	26656
12.722 V	INFO_GWY	26656
12.722 V	UEC_Down	26656

Coming Soon

Freq Pol	Channel Name	Symbol rate
11.589 V	Lotto App	27500
11.589 V	VRFY	27500
11.594 V	ChO	27500
11.594 V	Disc	27500
11.594 V	HallM	27500
11.594 V	M-Net	27500
11.594 V	MM1	27500
11.594 V	SABCA	27500
11.594 V	Serie	27500
11.594 V	SS1	27500
11.594 V	SS2	27500
11.594 V	SS5	27500
11.594 V	SSmax	27500
11.594 V	ASAT2	27500
11.594 V	Jhank	27500
11.594 V	Kaya	27500
11.594 V	KL	27500
11.594 V	RAI R	27500
11.594 V	TAR	27500
11.594 V	YFM	27500
11.594 V	Lotto App	27500
11.594 V	VRFY	27500
11.625 V	BOTSWANA TELEVISI	15000

C-Band: INTELSAT 10 (68.6 East)

INT010CH


INTELSAT 10 068.6° East — http://www.SatcoDX.com/0686 Coverage Code INT010CH

Freq Pol	Channel Name	Symbol rate
3.745 H	Premium	16175
3.745 H	NTSC English	16175
3.745 H	NTSC Japanese	16175
3.745 H	PAL English	16175
3.745 H	PAL Japanese	16175
3.745 H	Audio for Radio	16175

INT010CV


INTELSAT 10 068.6° East — http://www.SatcoDX.com/0686 Coverage Code INT010CV

Freq Pol	Channel Name	Symbol rate
4.124 V	GEO SUPER	19850
4.124 V	GEO UK	19850
4.124 V	GEO USA	19850
4.124 V	GEO NEWS	19850
4.126 H	DAWN NEWS TV	3255
4.132 H	Ujala TV	2573
4.143 H	ROHI TV	3306
4.147 H	DUNYA	3300
4.165 H	ROYAL TV	3255
3.716 V	BBC F	20600
3.716 V	BBC P	20600
3.716 H	Cricket Plus	20765
3.716 H	Football Channel	20765
3.716 V	go	20600
3.716 H	Goal TV1	20765
3.716 H	Goal TV2	20765
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	TCM	20600
3.716 H	Ten SI	20765
3.716 H	Ten SP	20765
3.716 H	TSME	20765
3.743 V	AfMag	20600
3.743 V	CNN	20600
3.783 V	SABCA	20600
3.787 V	India - Australia Ne	3617
3.787 V	RAS1	3617
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
3.864 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	6510
3.913 V	NoName	6510
3.920 V	LA CADENA	2500
3.924 V	FETV	4800
3.974 V	DTL India	19850
3.974 V	APL India	19850
3.974 V	BBC World India	19850
3.974 V	DSC India - English	19850
3.974 V	DSC India - Hindi	19850
3.974 V	Encoder 4	19850
3.974 V	Encoder 6	19850
3.974 V	BBC Burmese	19850
4.054 V	ArirangTV WT	4400
4.059 V	CTS	3600
4.064 V	Times Now	4610
4.069 V	Hope Channel Intl	3005
4.069 V	Hope Intl Alt Lang1	3005
4.069 V	Hope Intl Alt Lang2	3005
4.069 V	Lifetalk Radio	3005
4.074 V	Hungama Tv	4000
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
4.173 V	INDIA TV	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	TEST1	20000
4.184 H	TEST2	20000
4.184 H	TEST3	20000
4.184 H	IMAGINE	20000
4.189 V	LIFEST	12207
4.189 V	TEST5	12207
4.189 V	TEST6	12207

South East Asia

EUTELSAT W5

70.5 East

EUT0W5S1


EUTELSAT W5 070.5° East — http://www.SatcoDX.com/0705 Coverage Code EUT0W5S1

Freq Pol	Channel Name	Symbol rate
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

TV Digital | Radio Digital | TV Digital Crypt | Radio Digital Crypt | TV High Definition | TV High Definition Crypt | Data Channel | TV Analog | Radio Analog

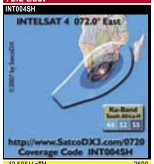
Coming Soon

Europe
EUTELSAT W5
70.5 East

C-Band: INTELSAT 4
72.0 East

Europe
INTELSAT 4
72.1 East

South Africa
INTELSAT 4
72.2 East



C-Band: I
74.0 East

EDUSAT, INSAT 4CR
74.1 East

South-East Asia
ABS-1
75.0 East

ABS-1
75.0 East

ABS-1
75.0 East

TELSTAR 10
76.5 East

C-Band: TELSTAR 10
76.6 East

Coming Soon

78.5 East

Coming Soon

C-Band: THAICOM 2,5
78.6 East

EXPRESS AM2
80.0 East

Coming Soon

EXPRESS AM2
80.0 East

EXPAM2CR

Freq GHz	Pol	Channel Name	Symbol rate
3.558	R	TPK-CEBEP	3214
3.561	R	TRV Muzhi	3226
3.583	R	RTPC Irkutsk	4285
3.675	R	Perviy kanal (+4h)	33484
3.675	R	Telekanal Rossiya (+	33484
3.675	R	7TV	33484
3.675	R	Kultura-2+RVKultura	33484
3.675	R	RenTV 0	33484
3.675	R	RenTV 2	33484
3.675	R	RenTV 4	33484
3.675	R	RenTV 7	33484
3.675	R	AI-15	33484
3.675	R	AI-16	33484
3.675	R	Mayak O3R	33484
3.675	R	Radio CH20	33484
3.675	R	Radio CH21	33484
3.675	R	Radio CH22	33484
3.675	R	Radio CH23	33484
3.675	R	Radio CH24	33484
3.675	R	Radio CH25	33484
3.675	R	Radio CH26	33484
3.675	R	Radio CH27	33484
3.675	R	Radio CH28	33484
3.675	R	Radio CH29	33484
3.675	R	Radio CH30	33484
3.675	R	Radio KulturaD2	33484
3.675	R	Radio RussiaD3	33484
3.675	R	Radio Unost	33484
3.928	L	5_kanal_msk	8703
3.928	L	5_kanal_sibir	8703
4.147	R	TV XXI	27500
4.147	R	7 TV	27500
4.147	R	Center TV Plus	27500
4.147	R	TVC	27500
4.147	R	TVC Siberia	27500
4.147	R	TVC Ural	27500
4.147	R	CTV Plus	27500
4.147	R	Radio 2 (test)	27500
4.147	R	Radio 4 (test)	27500
4.147	R	Radio 5 (test)	27500
4.147	R	Radio Arsenal	27500
4.147	R	Russian Public Radio	27500
4.175	R	Blagovest	4050

India
INSAT 3B,4A
83.0 East

INS04AKB

Freq GHz	Pol	Channel Name	Symbol rate
10.970	H	BBC Entertainment	27500
10.970	H	Bindass	27500
10.970	H	CBeebies	27500
10.970	H	DD Kashir	27500
10.970	H	FILMY	27500
10.970	H	HBO	27500
10.970	H	NDTV GOOD TIMES	27500
10.970	H	STAR Gold	27500
10.970	H	STAR Movies	27500
●10.970	H	World Movies	27500
10.970	H	Zee Cafe	27500
10.970	H	Zee Cinema	27500
10.970	H	Zee Studio	27500
10.970	H	Zone Reality	27500
10.970	H	Actve Cooking Trig	27500
11.010	H	Animal Planet	27500
11.010	H	DD Chandana	27500
11.010	H	Discovery	27500
●11.010	H	ETV Rajasthan	27500
●11.010	H	ETV UP	27500
11.010	H	ETV2	27500
11.010	H	History	27500
11.010	H	MAA TV	27500
●11.010	H	Topper	27500
11.010	H	Udaya 2	27500
11.010	H	Udaya Movies	27500
11.010	H	Udaya TV	27500
●11.010	H	UTV Movies	27500
11.010	H	SDP Service	27500
11.050	H	Animax	27500
11.050	H	Cartoon Network	27500
11.050	H	Chutti TV	27500
11.050	H	Disney	27500
11.050	H	Hungama	27500
11.050	H	Kalaignar TV	27500
11.050	H	KTV	27500
11.050	H	Nick	27500
11.050	H	PIX	27500
11.050	H	Pogo	27500
11.050	H	STAR Majha	27500
11.050	H	Toon Disney	27500
11.050	H	Udaya Varthegalu	27500
11.090	H	Aastha	27500
11.090	H	Channel V	27500
11.090	H	DD Punjabi	27500
11.090	H	Discovery T & L	27500
11.090	H	Fashion TV	27500
11.090	H	INDIA TV	27500
11.090	H	Lok Sabha TV	27500
11.090	H	MH ONE Shraddha	27500
11.090	H	MTV	27500
11.090	H	Nat Geo	27500
●11.090	H	News 24	27500
11.090	H	Sanskar	27500
11.090	H	Zee Punjabi	27500
11.090	H	Zee Trendz	27500
●11.090	H	Rajya Sabha Trigger	27500
11.130	H	Aaj Tak	27500
11.130	H	ACTVE DARSHAN	27500
11.130	H	ACTVE NEWSROOM	27500
11.130	H	ACTVE STAR NEWS	27500
11.130	H	CNN-IBN	27500
11.130	H	DD NE	27500
11.130	H	DD News	27500
11.130	H	Headlines Today	27500
11.130	H	NDTV 24x7	27500
11.130	H	NDTV India	27500
11.130	H	STAR News	27500
11.130	H	TIMES NOW	27500
11.130	H	Zee News	27500
11.130	H	Ferrari Contest	27500
11.170	H	Asianet News	27500
11.170	H	BBC WORLD	27500
11.170	H	CNBC Awaaz	27500
11.170	H	CNBC-TV18	27500
11.170	H	CNN	27500
11.170	H	Gemini News	27500
11.170	H	Jaya	27500
11.170	H	MH One	27500
11.170	H	MI MARATHI	27500
11.170	H	NDTV Profit	27500
11.170	H	Sun Music	27500
11.170	H	Sun News	27500
11.170	H	TV9 - Kannada	27500
11.170	H	Zee Business	27500
11.470	H	ACTVE SPORTS	27500
11.470	H	Actve Sports Highlig	27500
11.470	H	ACTVE SPORTS TEST	27500
11.470	H	ESPN	27500
11.470	H	MAX	27500
●11.470	H	NEO Cricket	27500
●11.470	H	NEO Sports	27500
●11.470	H	Service 1905	27500
11.470	H	STAR Cricket	27500
11.470	H	STAR Sports	27500
11.470	H	ACTVE TRIGGER ESP	27500
11.470	H	Actve Trigger NEO	27500
11.470	H	ACTVE TRIGGER SPO	27500
11.510	H	Aakaash Bangla	27500
11.510	H	AXN	27500
11.510	H	DD Bangla	27500
11.510	H	DD Oriya	27500
11.510	H	DD Sahyadri	27500
11.510	H	ETV Bangla	27500
11.510	H	ETV Kannada	27500
11.510	H	ETV Marathi	27500
11.510	H	Kiran TV	27500
11.510	H	STAR Ananda	27500
11.510	H	STAR World	27500
11.510	H	Surya TV	27500
11.510	H	Zee Bangla	27500
11.510	H	Zee Marathi	27500
11.550	H	DD Gujarati	27500
11.550	H	DD National	27500
11.550	H	ETV Gujarati	27500
11.550	H	ETV Oriya	27500
11.550	H	ETV Urdu	27500
11.550	H	SAB	27500
11.550	H	Sahara ONE	27500
11.550	H	Sony	27500
11.550	H	STAR One	27500
11.550	H	STAR Plus	27500
11.550	H	STAR Utsav	27500
11.550	H	Teja TV	27500
11.550	H	Zee Gujarati	27500
11.550	H	Zee TV	27500
11.550	H	STAR Plus Contest	27500
11.590	H	Amrita TV	27500
11.590	H	Asianet	27500
11.590	H	DD Malayalam	27500
11.590	H	DD Podhigai	27500
11.590	H	DD Saptagiri	27500
11.590	H	ETV Telugu	27500
11.590	H	Gemini Music	27500
11.590	H	Gemini TV	27500
11.590	H	Indiavision	27500
11.590	H	Kairali	27500
11.590	H	NE TV	27500
11.590	H	STAR Vijay	27500
11.590	H	Sun TV	27500
11.590	H	TV9	27500
11.590	H	HELPDESK	27500
11.630	H	ACTVE COOKING	27500
11.630	H	ACTVE DOORDARSHAN	27500
●11.630	H	DARSHAN QUAD	27500
●11.630	H	Help Channel	27500
●11.630	H	HELPDESK_NEW	27500
●11.630	H	HOME	27500
●11.630	H	Sales Promo Channel	27500
11.630	H	Showcase	27500
11.630	H	Showcase Promo Cha..	27500
●11.630	H	EPG Audio	27500
11.630	H	Gurbani (AIR Jall..)	27500
11.630	H	Service 2308	27500
11.670	H	9X	27500
11.670	H	DD Sports	27500
●11.670	H	NDTV Imagine	27500
●11.670	H	NEWSX	27500
11.670	H	Service 2401	27500
11.670	H	TEN Sports	27500
11.670	H	VH1	27500
●11.670	H	Zoom	27500
11.670	H	ACTVE ASTROLOGY	27500
11.670	H	ACTVE GAMES	27500
11.670	H	ACTVE LEARNING	27500
11.670	H	ACTVE STORIES	27500
11.670	H	ACTVE STORIES ENG	27500
11.670	H	ACTVE STORIES HIN	27500
11.670	H	ACTVE WIZKIDS	27500
11.670	H	Contest	27500
11.670	H	Game Guru	27500
11.670	H	Games 1	27500
11.670	H	Games 2	27500
11.670	H	Games 3	27500
11.670	H	Games 4	27500
11.670	H	Games 5	27500
11.670	H	Games 6	27500
11.670	H	Games Portal	27500
11.670	H	High Score Module	27500
11.670	H	Interactive test BW	27500
11.670	H	Interactive test BW	27500
11.670	H	Interactive test BW	27500
11.670	H	Wizkids	27500
11.670	H	Wizkids5	27500

C-Band: INSAT 2E,3B,4A
83.1 East

INS02ECW

Freq GHz	Pol	Channel Name	Symbol rate
3.549	V	TV9	3255
3.643	V	Asianet	19531
3.643	V	Asianet News	19531
3.643	V	Asianet Plus	19531
3.643	V	Jeevan TV	19531
3.643	V	Sitara	19531
3.643	V	Suvarna	19531
●3.643	V	Suvarna News	19531
3.679	V	AMRITA TV	5929
3.689	V	Ne Hi Fi	3328
●3.696	V	ISAI ARUVI	6113
3.761	V	CNBC	6500
3.761	V	CNBC AAWAZ	6500
3.774	V	RAJ	13020
3.774	V	RAJ PLUS	13020
3.774	V	VISSA	13020
3.774	V	RAJ MUSIX	13020
●3.774	V	RAJ NEWS	13020
3.845	V	MAA-TV	26042
3.845	V	Kairali	26042
3.845	V	Kairali WE	26042
3.845	V	kairali People	26042
3.845	V	MAKKAL TV	26042
3.845	V	TAMILAN TV	26042
3.845	V	TV 5	26042
3.845	V	WIN-TV	26042
4.005	V	ETV-2	27000
4.005	V	ETV-Bengali	27000
4.005	V	ETV-Gujarathi	27000
4.005	V	ETV-Kannada	27000
4.005	V	ETV-Marathi	27000
4.005	V	ETV-Oriya	27000
4.005	V	ETV-Telugu	27000
4.005	V	ETV-Urdu	27000
●4.092	H	MI-MARATHI	3000

INS02ECZ

Freq GHz	Pol	Channel Name	Symbol rate
3.559	V	S1 TELEVISION	3366
3.581	V	TV-9KANNADA	3255
●3.593	V	JAYA MAX	8680
●3.593	V	JAYA PLUS	8680
●3.593	V	JAYA TV	8680
3.612	V	AKAASH	9625
●3.612	V	Channel 8	9625
3.620	V	NE TELEVISON	3333
4.070	V	DD1 2E NATIONAL	5000

INS04ACB

Freq GHz	Pol	Channel Name	Symbol rate
3.725	H	AASEERVATHAM TV	26656
●3.725	H	D TV	26656
●3.725	H	HARIYALI	26656
●3.725	H	HARIYALITV	26656
3.725	H	JHANKAR MOVIE	26656
3.725	H	LEMON TV	26656
3.725	H	POWERVISION TV	26656
●3.725	H	SPACE TV	26656
3.725	H	STANDARD WORLD	26656
3.725	H	TIMETV	26656
3.754	V	NE BANGLA	3225
●3.756	H	Enterr10	13328
●3.756	H	India NEWS	13328
3.756	H	Manoranjan TV	13328
3.756	H	REAL ESTATE TV	13328
3.756	H	Service 6	13328
3.756	H	Service 7	13328
●3.756	H	Spacetoon	13328
●3.776	H	STAR	10900
●3.776	H	STAR ANANDA	10900
●3.776	H	STAR NEWS	10900
●3.776	H	STAR MAJHA	10900
3.805	H	BINDASS	28500
3.805	H	BINDASS MOVIES	28500
●3.805	H	UTV MOVIES	28500
●3.805	H	UTV NEWS	28500
●3.805	H	WORLD MOVIES	28500
●3.805	H	AZAD NEWS	28500
3.805	H	CHANNEL 1	28500
●3.805	H	NEWS LIVE	28500
●3.805	H	OTV	28500
3.805	H	PRAGYA	28500
3.805	H	SHALOM TV	28500
3.805	H	SUDARSHAN TV	28500
●3.805	H	SVBC	28500
3.805	H	YO MUSIC	28500
●3.828	H	SCOPUS-NET-TECH	3200
●3.838	H	INDIAVISION	3333
●3.843	H	YES INDIAVISION	3333
3.852	H	CTVN AKD PLUS	3265
3.856	H	kasthuri TV	3463
3.899	H	Bhakti	6800
●3.899	H	NTV	6800
●3.922	H	MUSIC INDIA	13000
3.922	H	SANGEET BANGLA	13000
●3.922	H	SATSANG	13000
3.922	H	TOTAL TV	13000
3.922	H	TV 100	13000
●3.923	V	MMINTL	3000
3.934	V	KALAIGNAR	13020
3.934	V	MEGATV	13020
3.934	V	SUBHAVAARTHA	13020
●3.936	H	9x	10100
●3.936	H	9xM	10100
●3.936	H	NewsX	10100
3.975	V	SANSKRUTI	13330
●3.975	V	TV9 GUJARATI	13330
3.976	H	ZEE NEXT	3200
●4.004	H	ETV 2	22210
●4.004	H	ETV Bengali	22210
●4.004	H	ETV Gujrathi	22210
●4.004	H	ETV Kannada	22210
●4.004	H	ETV Marathi	22210
●4.004	H	ETV Oriya	22210
●4.004	H	ETV Telugu	22210
●4.004	H	ETV Bihar	22210
●4.004	H	ETV Madhya Pradesh	22210
●4.004	H	ETV Rajasthan	22210
●4.004	H	ETV Urdu	22210
●4.004	H	ETV Uttar Pradesh	22210
●4.040	H	ASHIRWAD	7500
●4.040	H	Cinext	7500
4.042	V	Angel TV	8000
4.042	V	God's learning Chann	8000
●4.042	V	JEYAM TV	8000
4.042	V	Tristit TV	8000
●4.050	V	JAI HIND	5085
●4.071	H	HOME SHOP18	6500
●4.071	H	IBN SOUTH	6500
●4.071	H	TOPPER	6500
●4.080	H	IBN LOKMAT	6500
●4.087	H	LIVE INDIA	3300
4.100	H	BBS TV	4750
4.100	H	BBS FM	4750
4.100	H	Kuzoo FM	4750
●4.115	H	MMCAL	5555
●4.115	H	MMCOCHIN	5555
●4.115	H	MMTVM	5555
●4.134	H	E 24	10600
●4.134	H	BIZ 24	10600
●4.134	H	LIFE24	10600
●4.134	H	NEWS 24	10600
●4.151	H	ZEE KANNADA	6500
●4.151	H	ZEE TELUGU	6500
●4.151	H	24 GHANTA	6500
●4.160	H	PLAY TV	6500
●4.160	H	ZEE TALKIES	6500
●4.160	H	24 TAAS	6500
4.170	H	LSTV	4650
4.181	H	KOLKATATV	3234

INTELSAT 709
85.0 East

INT709ME

Freq GHz	Pol	Channel Name	Symbol rate
11.584	H	Kurdsat	3254
11.591	H	SkyARCS Saudi Inte	2637
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

C-Band: CHINASTAR 1
87.5 East

CHI001CB

Freq GHz	Pol	Channel Name	Symbol rate
3.733	H	MYAWADY TV	5925

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	9255
●3.671	H	Ch_2 Life TV	9255
●3.671	H	Ch_3	9255
●3.671	H	Ch_4 TEST	9255
●3.679	H	CHT	3000
3.688	H	Service 2	3000

India
ST 1
88.1 East

STC001K2

Freq GHz	Pol	Channel Name	Symbol rate
●11.510	V	TVLanka 2	3000
●11.510	V	TVL Radio 1	3000
●11.510	V	TVL Radio 3	3000
●11.510	V	TVL Radio 4	3000
●11.510	V	TVL Radio 5	3000
●11.606	H	News One ISB	2000
●11.609	H	News One Lahore	2000

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	MAXIMUM	26470
●11.057	V	RSN	26470
●11.057	V	RUSSIAN_RADIO	26470
●11.057	V	Audio 31 F-Way+Novos	26470
●11.092	V	CHANSON	26470
●11.092	V	PARK RAZVL	26470
●11.092	V	SOVSEKRETNO	26470
●11.092	V	BIBIGON	26470
●11.092	V	CTC+4	26470
●11.092	V	FOOTBALL	26470
●11.092	V	Home+4	26470
●11.092	V	RENTV4	26470
●11.092	V	RENTV7	26470
●11.092	V	RIK	26470
●11.092	V	Europa Plus	26470
●11.092	V	Radio 7	26470
●11.092	V	Retro FM	26470

11.092

YAMAL 201
90.0 East

YAM201CB

Freq GHz	Pol	Channel Name	Symbol rate
3.550	L	Altyn Asyr	20000
3.550	L	Miras	20000
3.550	L	Turkmenistan TV-4	20000
3.550	L	Yaslyk	20000
3.606	L	Fashion TV Russia	2626
3.645	L	Sport	28000
3.645	L	DTV +7	28000
3.645	L	NTV7	28000
3.645	L	Test 1	28000
3.645	L	TNT	28000
3.645	L	TV ZVEZDA	28000
3.645	L	TV3	28000
3.674	L	MTV	17500
3.674	L	SGU TV	17500
3.674	L	SPAS	17500
3.674	L	TV-3 PLUS 3	17500
3.674	L	TV-3 PLUS 7	17500
3.725	L	Skvortsovo	3200
3.729	L	GTRK Dalnevostochnay	4283
3.900	L	ROSTOV-TV1	4285
3.906	L	ROSTOV-TV2	4265
3.944	L	AM LIFE	15550
3.944	L	O2TV	15550
3.944	L	RUTV	15550
3.944	L	Radio Radonezh/Famil	15550
3.944	L	Radio Zvezda	15550
3.944	L	Russkoe Mezhdunarodn	15550
4.042	R	HUMOR TV	8679
4.042	R	MUSIC BOX RU	8679
4.042	R	MUSIC BOX TV	8679
4.085	R	107-8	2500
4.085	R	Avtoradio	2500
4.085	R	Dinamit	2500
4.085	R	Echo Moscow	2500
4.085	R	Energia	2500
4.085	R	Monte Carlo	2500
4.085	R	Retro	2500
4.085	R	Russkoe-2	2500

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	RIA	30000
10.982	V	SMV	30000
10.982	V	TVBS	30000
10.982	V	VAAN	30000
10.982	V	WLT	30000
●10.982	V	DS DMR 101	30000
●10.982	V	SWAP	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	TVB8	30000
●11.062	V	VT	30000
●11.062	V	XHE	30000
●11.062	V	ERA	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	NLG	30000
●11.062	V	OPUS	30000
●11.062	V	OSAI	30000
●11.062	V	PLAY	30000
●11.062	V	RAAGA	30000
●11.062	V	ROCK	30000
●11.062	V	SINAR	30000
●11.062	V	XF FM	30000
●11.062	V	DS DMR 103	30000
●11.062	V	RAD	30000
●11.102	V	8TV	30000
●11.102	V	ABO	30000
●11.102	V	ANIM	30000
●11.102	V	BRTV	30000
●11.102	V	CEL	30000
●11.102	V	ESPN	30000
●11.102	V	HITZ	30000
●11.102	V	KIRA	30000
●11.102	V	RTM1	30000
●11.102	V	SHX	30000
●11.102	V	SPRT	30000
●11.102	V	ASL	30000
●11.102	V	DS DMR 104	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	DRT	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	TVIQ	30000
●11.182	V	INFO	30000
●11.182	V	DS DMR 106	30000
●11.482	V	@15	30000
●11.482	V	AOD	30000
●11.482	V	APL	30000
●11.482	V	ASSP	30000
●11.482	V	BBC	30000
●11.482	V	BBCE	30000
●11.482	V	BTV	30000
●11.482	V	CNBC	30000
●11.482	V	CTV4	30000
●11.482	V	CTV9	30000
●11.482	V	DH&H	30000
●11.482	V	DRT	30000
●11.482	V	DSCI	30000
●11.482	V	E!	30000
●11.482	V	ES	30000
●11.482	V	GC	30000
●11.482	V	HMK	30000
●11.482	V	JYU	30000
●11.482	V	MTV	30000
●11.482	V	NTV7	30000
●11.482	V	PIN	30000
●11.482	V	SM	30000
●11.482	V	SWR	30000
●11.482	V	TVIQ	30000
●11.482	V	INFO	30000
●11.482	V	DS DMR 106	30000
●11.482	V	DS DMR 201	30000
●11.522	V	@15	30000
●11.522	V	[V]	30000
●11.522	V	AFC	30000
●11.522	V	AOD	30000
●11.522	V	ART	30000
●11.522	V	ASSP	30000
●11.522	V	BBCE	30000
●11.522	V	BTV	30000
●11.522	V	CTV4	30000
●11.522	V	DH&H	30000
●11.522	V	DRT	30000
●11.522	V	E!	30000
●11.522	V	HMK	30000
●11.522	V	JYU	30000
●11.522	V	NEWS	30000
●11.522	V	SM	30000
●11.522	V	SWR	30000
●11.522	V	TEST1	30000
●11.522	V	TEST2	30000
●11.522	V	TVIQ	30000
●11.522	V	INFO	30000
●11.522	V	DS DMR 106	30000
●11.522	V	DS DMR 202	30000
●11.562	V	@15	30000
●11.562	V	[V]	30000
●11.562	V	AFC	30000
●11.562	V	AOD	30000
●11.562	V	ART	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	DRT	30000
●11.562	V	E!	30000
●11.562	V	HMK	30000
●11.562	V	JYU	30000
●11.562	V	KBSW	30000
●11.562	V	MAK	30000
●11.562	V	NEWS	30000
●11.562	V	NICK	30000
●11.562	V	SM	30000
●11.562	V	SWR	30000
●11.562	V	TEST1	30000
●11.562	V	TEST2	30000
●11.562	V	TV9	30000
●11.562	V	TVIQ	30000
●11.562	V	XTY	30000
●11.562	V	INFO	30000
●11.562	V	DS DMR 106	30000
●11.562	V	DS DMR 202	30000
●11.563	V	@15	30000
●11.563	V	[V]	30000
●11.563	V	AFC	30000
●11.563	V	AOD	30000
●11.563	V	ART	30000
●11.563	V	ASSP	30000
●11.563	V	BBCE	30000
●11.563	V	BTV	30000
●11.563	V	CHTV	30000
●11.563	V	CTV4	30000
●11.563	V	DH&H	30000
●11.563	V	DRT	30000
●11.563	V	E!	30000
●11.563	V	HMK	30000
●11.563	V	JYU	30000
●11.563	V	KBSW	30000
●11.563	V	MAK	30000
●11.563	V	NEWS	30000
●11.563	V	NICK	30000
●11.563	V	SM	30000
●11.563	V	SWR	30000
●11.563	V	TEST1	30000
●11.563	V	TEST2	30000
●11.563	V	TV9	30000
●11.563	V	TVIQ	30000
●11.563	V	XTY	30000
●11.563	V	INFO	30000
●11.563	V	DS DMR 106	30000
●11.563	V	DS DMR 202	30000
●11.602	V	@15	30000
●11.602	V	[V]	30000
●11.602	V	AFC	30000
●11.602	V	AJE	30000
●11.602	V	AOD	30000
●11.602	V	AODP	30000
●11.602	V	ART	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	CHTV	30000
●11.602	V	CI	30000
●11.602	V	CTV4	30000
●11.602	V	DH&H	30000
●11.602	V	DRT	30000
●11.602	V	E!	30000
●11.602	V	ETVA	30000
●11.602	V	HMK	30000
●11.602	V	JYU	30000
●11.602	V	KBSW	30000
●11.602	V	MAK	30000
●11.602	V	NEWS	30000
●11.602	V	NICK	30000
●11.602	V	OAS	30000
●11.602	V	RTM2	30000
●11.602	V	SM	30000
●11.602	V	SWR	30000
●11.602	V	TEST1	30000
●11.602	V	TEST2	30000
●11.602	V	TRAV	30000
●11.602	V	TV3	30000
●11.602	V	TV9	30000
●11.602	V	TVIQ	30000
●11.602	V	WATV	30000
●11.602	V	XTY	30000
●11.602	V	ZEE	30000
●11.602	V	INFO	30000
●11.602	V	DS DMR 106	30000
●11.602	V	DS DMR 202	30000
●11.602	V	DS DMR 204	30000
●11.642	V	@15	30000
●11.642	V	[V]	30000
●11.642	V	AFC	30000
●11.642	V	AOD	30000
●11.642	V	ART	30000
●11.642	V	ASSP	30000
●11.642	V	BBCE	30000
●11.642	V	BTV	30000
●11.642	V	CHTV	30000
●11.642	V	CTV4	30000
●11.642	V	DH&H	30000
●11.642	V	DRT	30000
●11.642	V	E!	30000
●11.642	V	HMK	30000
●11.642	V	JYU	30000
●11.642	V	KBSW	30000
●11.642	V	MAK	30000
●11.642	V	NEWS	30000
●11.642	V	NICK	30000
●11.642	V	SM	30000
●11.642	V	SWR	30000
●11.642	V	TEST1	30000
●11.642	V	TEST2	30000
●11.642	V	TV9	30000
●11.642	V	TVIQ	30000
●11.642	V	XTY	30000
●11.642	V	AOD	30000
●11.642	V	CTWK	30000
●11.642	V	INFO	30000
●11.642	V	TEST	30000
●11.642	V	DS DMR 106	30000
●11.642	V	DS DMR 202	30000
●11.642	V	DS DMR 205	30000
●11.682	V	@15	30000
●11.682	V	[V]	30000
●11.682	V	AFC	30000
11.682	V	AOD	30000
●11.682	V	ART	30000
●11.682	V	ASSP	30000
●11.682	V	BBCE	30000
●11.682	V	BTV	30000
●11.682	V	CHTV	30000
●11.682	V	CTV4	30000
●11.682	V	CTWK	30000
●11.682	V	DH&H	30000
●11.682	V	DRT	30000
●11.682	V	E!	30000
11.682	V	HIST	30000
●11.682	V	HMK	30000
●11.682	V	JYU	30000
●11.682	V	KBSW	30000
●11.682	V	MAK	30000
●11.682	V	NEWS	30000
11.682	V	NHK	30000
●11.682	V	NICK	30000
●11.682	V	SM	30000
●11.682	V	SWR	30000
●11.682	V	TEST	30000
●11.682	V	TEST1	30000
●11.682	V	TEST2	30000
●11.682	V	TV9	30000
●11.682	V	TVIQ	30000
●11.682	V	XTY	30000
●11.682	V	AOD	30000
●11.682	V	INFO	30000
●11.682	V	DS DMR 106	30000
●11.682	V	DS DMR 202	30000
●11.682	V	DS DMR 205	30000
●11.682	V	DS DMR 206	30000
●11.833	V	@15	30000
●11.833	V	[V]	30000
●11.833	V	AFC	30000
●11.833	V	AOD	30000
●11.833	V	ART	30000
●11.833	V	ASSP	30000
●11.833	V	BBCE	30000
●11.833	V	BTV	30000
●11.833	V	CHTV	30000
●11.833	V	CTV4	30000
●11.833	V	CTWK	30000
●11.833	V	DH&H	30000
●11.833	V	DRT	30000
●11.833	V	E!	30000
●11.833	V	HMK	30000
●11.833	V	JYU	30000
●11.833	V	KBSW	30000
●11.833	V	MAK	30000
●11.833	V	NEWS	30000
●11.833	V	NICK	30000
●11.833	V	SM	30000
●11.833	V	SWR	30000
●11.833	V	TEST	30000
●11.833	V	TEST1	30000
●11.833	V	TEST2	30000
●11.833	V	TV9	30000
●11.833	V	TVIQ	30000
●11.833	V	XTY	30000
●11.833	V	AOD	30000
●11.833	V	INFO	30000
●11.833	V	DS DMR 106	30000
●11.833	V	DS DMR 202	30000
●11.833	V	DS DMR 205	30000
●11.957	V	AOD	30000
●11.957	V	@15	30000
●11.957	V	[V]	30000
●11.957	V	AFC	30000
●11.957	V	AOD	30000
●11.957	V	ART	30000
●11.957	V	ASSP	30000
●11.957	V	BBCE	30000
●11.957	V	BTV	30000
●11.957	V	CHTV	30000
●11.957	V	CTV4	30000
●11.957	V	CTWK	30000
●11.957	V	DH&H	30000
●11.957	V	DRT	30000
●11.957	V	E!	30000
●11.957	V	HMK	30000
●11.957	V	JYU	30000
●11.957	V	KBSW	30000
●11.957	V	MAK	30000
●11.957	V	NEWS	30000
●11.957	V	NICK	30000
●11.957	V	SM	30000
●11.957	V	SWR	30000
●11.957	V	TEST	30000
●11.957	V	TEST1	30000
●11.957	V	TEST2	30000
●11.957	V	TV9	30000
●11.957	V	TVIQ	30000
●11.957	V	XTY	30000
●11.957	V	AOD	30000
●11.957	V	INFO	30000
●11.957	V	DS DMR 106	30000
●11.957	V	DS DMR 202	30000
●11.957	V	DS DMR 205	30000
●12.333	V	@15	30000
●12.333	V	[V]	30000
●12.333	V	AFC	30000
●12.333	V	AOD	30000
●12.333	V	ART	30000
●12.333	V	ASSP	30000
●12.333	V	BBCE	30000
●12.333	V	BTV	30000
●12.333	V	CHTV	30000
●12.333	V	CTV4	30000
●12.333	V	CTWK	30000
●12.333	V	DH&H	30000
●12.333	V	DRT	30000
●12.333	V	E!	30000
●12.333	V	HMK	30000
●12.333	V	JYU	30000
●12.333	V	KBSW	30000
●12.333	V	MAK	30000
●12.333	V	NEWS	30000
●12.333	V	NICK	30000
●12.333	V	SM	30000
●12.333	V	SWR	30000
●12.333	V	TEST	30000
●12.333	V	TEST1	30000
●12.333	V	TEST2	30000
●12.333	V	TV9	30000
●12.333	V	TVIQ	30000
●12.333	V	XTY	30000
●12.333	V	AOD	30000
●12.333	V	INFO	30000
●12.333	V	DS DMR 106	30000
●12.333	V	DS DMR 202	30000
●12.333	V	DS DMR 205	30000
●12.414	V	@15	30000
●12.414	V	[V]	30000
●12.414	V	AOD	30000
●12.414	V	ART	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	CTWK	30000
●12.414	V	DH&H	30000
●12.414	V	DRT	30000
●12.414	V	E!	30000
●12.414	V	HMK	30000
●12.414	V	JYU	30000
●12.414	V	KBSW	30000
●12.414	V	MAK	30000
●12.414	V	NEWS	30000
●12.414	V	NICK	30000
●12.414	V	SM	30000
●12.414	V	SWR	30000
●12.414	V	TEST	30000
●12.414	V	TEST1	30000
●12.414	V	TEST2	30000
●12.414	V	TV9	30000
●12.414	V	TVIQ	30000
●12.414	V	XTY	30000
●12.414	V	AFC	30000
●12.414	V	AOD	30000
●12.414	V	INFO	30000
●12.414	V	DS DMR 106	30000
●12.414	V	DS DMR 202	30000
●12.414	V	DS DMR 205	30000
●12.493	V	@15	30000
●12.493	V	[V]	30000
●12.493	V	AFC	30000
●12.493	V	AOD	30000
●12.493	V	ART	30000
●12.493	V	ASSP	30000
●12.493	V	BBCE	30000
●12.493	V	BTV	30000
●12.493	V	CHTV	30000
●12.493	V	CTV4	30000
●12.493	V	CTWK	30000
●12.493	V	DH&H	30000
●12.493	V	DRT	30000
●12.493	V	E!	30000
●12.493	V	HMK	30000
●12.493	V	JYU	30000
●12.493	V	KBSW	30000
●12.493	V	MAK	30000
●12.493	V	NEWS	30000
●12.493	V	NICK	30000
●12.493	V	SM	30000
●12.493	V	SWR	30000
●12.493	V	TEST	30000
●12.493	V	TEST1	30000
●12.493	V	TEST2	30000
●12.493	V	TV9	30000
●12.493	V	TVIQ	30000
●12.493	V	XTY	30000
●12.493	V	AOD	30000
●12.493	V	INFO	30000
●12.493	V	DS DMR 106	30000
●12.493	V	DS DMR 202	30000
●12.493	V	DS DMR 205	30000

C-Band: MEASAT 3
91.6 East

MEA003CG

Freq GHz	Pol	Channel Name	Symbol rate
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
●3.786	V	9MHz, PAL, 1 Audio	7030
3.795	V	HTV7	7030
3.795	V	HTV9	7030
●3.795	V	SAIGON_FM	7030
●3.802	V	AMNSSG Adhoc Encod	3255
3.840	V	AFC	30000
●3.840	V	ARUNA	30000
3.840	V	BBC Entertainment	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
3.865	V	Sabah TV	3835
3.865	V	Sabah FM	3835
3.865	V	Sabah FM1	3835
3.865	V	Sabah FM3	3835
3.865	V	Sabah FM4	3835
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
3.888	V	RTM Sarawak TV	3980
3.888	V	Red FM	3980
3.888	V	Sarawak FM	3980
3.888	V	Sarawak FM 4	3980
3.888	V	Sarawak FM 5	3980
3.888	V	Wai FM	3980
●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

India
MEASAT 3
91.7 East

MEA003KA

Freq GHz	Pol	Channel Name	Symbol rate
●12.523	V	Headlines Today	27500
●12.523	V	Mosaic 3	27500
●12.523	V	Aaj Tak Tez	27500
●12.523	V	B4U Music	27500
●12.523	V	Gemini Music	27500
●12.523	V	Mosaic 7	27500
●12.523	V	MTV India	27500
●12.523	V	NG - Data - 2	27500
●12.523	V	Nick	27500
●12.523	V	Sahara National	27500
●12.523	V	Star Utsav	27500
●12.523	V	VH1 India	27500
●12.523	V	Zee Bangla	27500
●12.523	V	Zee Business	27500
●12.523	V	Zee Cafe	27500
●12.523	V	Zee Cinema	27500
●12.523	V	Zee Music	27500
●12.523	V	Zee News	27500
●12.523	V	Zee Studio	27500
●12.523	V	Zee Trendz	27500
●12.523	V	Zee TV	27500
●12.523	V	Zoom TV	27500
12.563	V	Big TV	27500
●12.563	V	BOLLY ACTION 1	27500
●12.563	V	BOLLY BLOCKBUSTER	27500
●12.563	V	BOLLY BLOCKBUSTER	27500
●12.563	V	BOLLY CLASSIC	27500
●12.563	V	BOLLY COMEDY 1	27500
●12.563	V	BOLLY COMEDY 2	27500
●12.563	V	BOLLY COMEDY 3	27500
●12.563	V	BOLLY FAMILY 1	27500
●12.563	V	BOLLY FAMILY 2	27500
●12.563	V	BOLLY FAMILY 3	27500
●12.563	V	BOLLY FAMILY 4	27500
●12.563	V	BOLLY FAMILY 5	27500
●12.563	V	BOLLY KIDS	27500
●12.563	V	BOLLY MEGA HIT 1	27500
●12.563	V	BOLLY MEGA HIT 2	27500
●12.563	V	BOLLY ROMANCE	27500
●12.563	V	HOLLY BLOCKBUSTER	27500
●12.563	V	HOLLY BLOCKBUSTER	27500
●12.563	V	HOLLY BLOCKBUSTER	27500
●12.563	V	NG - Data - 8	27500
●12.603	V	Mosaic 4	27500
●12.603	V	9XM	27500
●12.603	V	Channel V	27500
●12.603	V	CNN	27500
●12.603	V	History Channel	27500
●12.603	V	JANMAT	27500
●12.603	V	Mosaic 1	27500
●12.603	V	Music India	27500
●12.603	V	National Geographic	27500
●12.603	V	NDTV 24x7	27500
●12.603	V	NDTV Good Times	27500
●12.603	V	NDTV INDIA	27500
●12.603	V	NDTV Profit	27500
●12.603	V	NG - Data - 5	27500
●12.603	V	Sahara Filmy	27500
●12.603	V	Sahara One	27500
●12.603	V	Star Gold	27500
●12.603	V	Star Movies	27500
●12.603	V	Star News	27500
●12.603	V	Star One	27500
●12.603	V	Star Plus	27500
●12.603	V	Star Sports	27500
●12.603	V	Star Vijay	27500
●12.603	V	Star World	27500
●12.603	V	Ten Sports	27500
●12.603	V	UTV Movies	27500
●12.643	V	Animax	27500
●12.643	V	AXN	27500
●12.643	V	Bindass	27500
●12.643	V	DD Bangla	27500
●12.643	V	DD Gujarati	27500
●12.643	V	DD Lok Sabha	27500
●12.643	V	DD Malayalam	27500
●12.643	V	DD National	27500
●12.643	V	DD News	27500
●12.643	V	DD Rajya Sabha	27500
●12.643	V	DD Sahyadri	27500
●12.643	V	DD Sapthagiri	27500
●12.643	V	DD Urdu	27500
●12.643	V	ESPN	27500
●12.643	V	Gyan Darshan	27500
●12.643	V	Mosaic 5	27500
●12.643	V	NG - Data - 6	27500
●12.643	V	Star Ananda	27500
●12.643	V	Star Cricket	27500
●12.643	V	Toon Disney India	27500
●12.643	V	Zee Kannada	27500
●12.643	V	Zee Talkies	27500
●12.643	V	Zee Telugu	27500
●12.683	H	Air Bangla	27500
●12.683	H	Air Hindi	27500
●12.683	H	Air Kannada	27500
●12.683	H	Air Marathi	27500
●12.683	H	Air Punjabi	27500
●12.683	H	Air Tamil	27500
●12.683	H	Air Telugu	27500
●12.683	H	Air VBS	27500
●12.683	H	FM Gold Mumbai	27500
●12.683	H	Radio Kashmir	27500
●12.683	H	Aakaash	27500
●12.683	H	Amrita TV	27500
●12.683	H	Animal Planet	27500
●12.683	H	Asianet Global	27500
●12.683	H	Asianet News	27500
●12.683	H	Asianet Plus	27500
●12.683	H	Cartoon Network	27500
●12.683	V	CNN IBN	27500
●12.683	V	Discovery	27500
●12.683	V	Discovery Travel & L	27500
●12.683	V	Disney Channel	27500
●12.683	V	ETV 2	27500
●12.683	H	ETV Bihar	27500
●12.683	V	ETV Gujarati	27500
●12.683	V	ETV Kannada	27500
●12.683	V	ETV Marathi	27500
●12.683	H	ETV MP	27500
●12.683	V	ETV Oriya	27500
●12.683	H	ETV Rajasthan	27500
●12.683	V	ETV Telugu	27500
●12.683	H	ETV UP	27500
●12.683	H	ETV Urdu	27500
●12.683	V	HBO	27500
●12.683	H	Hungama TV	27500
●12.683	V	IBN7	27500
●12.683	H	Jaya TV	27500
●12.683	H	Kairali	27500
●12.683	V	Maa TV	27500
●12.683	H	Manorama News	27500
●12.683	V	Mosaic 2	27500
●12.683	V	Mosaic 6	27500
●12.683	H	Neo Sport Plus	27500
●12.683	H	Neo Sports	27500
●12.683	V	NG - Data - 4	27500
●12.683	H	NG - Data -1	27500
●12.683	H	NG - OCode	27500
●12.683	V	Pix	27500
●12.683	V	Pogo	27500
●12.683	V	SAB TV	27500
●12.683	V	Set Max	27500
●12.683	V	Sony	27500
●12.683	H	TCM	27500
●12.683	H	Times Now	27500
●12.683	H	TV 9	27500
●12.683	H	TV 9 Kannada	27500
●12.683	V	Zee Classic	27500
●12.683	H	Zee Gujarati	27500
●12.683	H	Zee Marathi	27500
●12.683	V	Zee Premiere	27500
●12.683	H	Zee Punjabi	27500
●12.683	V	Zee Sports	27500
●12.723	V	AAJ TAK	27500
●12.723	V	Customer Care	27500
●12.723	V	HOLLY ACTION 1	27500
●12.723	V	HOLLY ACTION 2	27500
●12.723	V	HOLLY ACTION 3	27500
●12.723	V	HOLLY BLOCKBUSTER	27500
●12.723	V	HOLLY CLASSIC 1	27500
●12.723	V	HOLLY CLASSIC 2	27500
●12.723	V	HOLLY FAMILY 1	27500
●12.723	V	HOLLY FAMILY 2	27500
●12.723	V	HOLLY HORROR	27500
●12.723	V	HOLLY MEGA HIT 1	27500
●12.723	V	HOLLY MEGA HIT 2	27500
●12.723	H	Aastha TV	27500
●12.723	H	Bindass Movies	27500
●12.723	H	CNBC Awaaz	27500
●12.723	H	CNBC TV 18	27500
●12.723	H	DD Bharti	27500
●12.723	H	DD Sports	27500
●12.723	H	ETC	27500
●12.723	H	ETC Punjabi	27500
●12.723	H	Fashion TV India	27500
●12.723	V	Games Portal	27500
●12.723	H	GOD TV	27500
●12.723	H	India TV	27500
●12.723	H	MH 1	27500
●12.723	H	Mi Marathi	27500
●12.723	H	NDTV Imagine	27500
●12.723	H	NG - Data - 3	27500
●12.723	V	NG - Data - 7	27500
●12.723	H	Sanskar	27500
●12.723	H	SS Music	27500
●12.723	H	Star Majha	27500
●12.723	H	Sun Music	27500
●12.723	H	World Movies	27500
●12.723	H	Zee 24 Taas	27500
●12.723	H	Zee Aakash 24 Ghante	27500

C-Band: INSAT 3A,4B
93.5 East

INS03ACE

Freq GHz	Pol	Channel Name	Symbol rate
4.131	V	RTA - Kabul	4000
4.131	V	RADIO	4000
4.136	V	Ningarhar Service	2000
4.141	V	ARIANA INT'L	5148
4.141	V	ARIANA NATIONAL	5148
●4.141	V	ARIANA FM	5148

INS03ACI

Freq GHz	Pol	Channel Name	Symbol rate
3.731	V	DD Bangala	6250
3.731	V	Kolkata Feed	6250
3.740	V	DD PUNJABI	6250
3.740	V	JALANDHAR FEED	6250
●3.749	V	Ahmedabad Feed	6250
●3.749	V	DD Gujrati	6250
3.758	V	DD BANGALORE NEWS	6250
3.758	V	DD CHANDANA	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
3.791	V	NEWS-FEED	8600
3.791	V	DD SAHYADRI	8600
3.791	V	MUMBAI-FEED	8600
3.800	V	DD URDU	4250
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
●3.831	V	Chennai feed - 1	8600
●3.831	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

INS04BCE

Freq GHz	Pol	Channel Name	Symbol rate
●3.725	H	DD BANGLA	27500
●3.725	H	DD BHARATI	27500
●3.725	H	DD FEED 4B	27500
●3.725	H	DD INDIA	27500
●3.725	H	DD NATIONAL	27500
●3.725	H	DD NEWS	27500
●3.725	H	DD RAJYA SABHA	27500
●3.725	H	DD URDU	27500
●3.762	H	DD Chhattisgarh	4250
●3.803	H	DDK-HISAR	4250
●3.822	H	DDK PORTBLAIR	4250
●3.833	H	DD Patna	6250
●3.833	H	Feed DD Patna	6250
●3.840	H	DD-13	6250
●3.840	H	DDGUW-NFEED	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 TV	28000
3.885	H	UDAYA VARTHEGALU	28000
3.885	H	CHUTTI TV	28000
3.885	H	KIRAN TV	28000
3.885	H	SURYA TV	28000
3.885	H	S FM BANGALORE 93	28000
3.885	H	S FM HYDERABAD 93	28000
3.885	H	SURYAN FM 93.5	28000
●4.045	H	ADITHYA TV	28000
●4.045	H	TEJA NEWS	28000
●4.045	H	UDAYA NEWS	28000
●4.045	H	USHE TV	28000
●4.045	H	UDAYA II	28000

INSAT 4B
93.6 East

INS04BKB

Freq GHz	Pol	Channel Name	Symbol rate
●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
95.0 East

INS04BKB

Freq GHz	Pol	Channel Name	Symbol rate
●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	SM	27500
●11.030	V	SP	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
●11.030	V	VI TEST	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	CV-1	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	SG	20000
●11.185	V	SO	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	KBS WORLD	27500
●11.490	V	NEWS LIVE	27500
●11.490	V	NHK WORLD	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-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	SW	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	HC	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	N TEST	27500
●11.610	V	O TV	27500
●11.610	V	Sanskar	27500
●11.610	V	Shakti TV	27500
●11.610	V	UTV Movies	27500
●11.645	V	ABC	20000
●11.645	V	CCTV 9	20000
●11.645	V	Daystar	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
●11.682	V	N TEST	9500
●11.682	V	NP TEST	9500
●11.682	V	SN	9500

NSS006IN

Freq GHz	Pol	Channel Name	Symbol rate
●11.038	H	CHANNEL V	40700
●11.038	H	CNBC AWAAZ	40700
●11.038	H	CNN IBN	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 KANNDA	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

TV Digital | Radio Digital | TV Digital Crypt | Radio Digital Crypt | TV High Definition | TV High Definition Crypt | Data Channel | TV Analog | Radio Analog

Freq GHz | Pol | Channel Name | Symbol rate

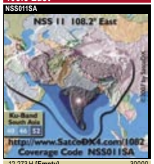
China

NSS 11 — 108.2 East (NSS011CH)

NSS011NE

India

NSS 11 — 108.3 East (NSS011SA)



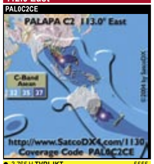
BSAT 1A,2A — 110.0 East (BSA01AKB)

BSA02AKB

N-SAT 110 — 110.1 East (JCS110KB)

C-Band: SINOSAT 1 — 110.5 East (SIN001CB)

C-Band: PALAPA C2 — 112.9 East (PAL0C2CE)



KOREASAT 2 — 113.1 East (KOR002KB)

C-Band: CHINASAT 6B — 115.5 East (CHI06BCB)

KOREASAT 3 — 116.0 East (KOR003KB)

THAICOM 1A — 120.0 East (THA01ACR)

ASIASAT 4 — 122.0 East (AS1004CB)

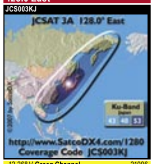
AS1004KE

C-Band: ASIASAT 4 — 122.1 East (AS1004CB)

JCSAT 4A — 124.0 East (JCS04AKJ)

C-Band: SINOSAT 3 — 125.0 East (SIN003CB)

JCSAT 3 — 128.0 East (JCS003KJ)



C-Band: JCSAT 3 — 128.1 East (JCS003CA)

C-Band: APSTAR 6 — 134.0 East (APS006CB)

APSTAR 6 — 134.1 East (APS05K2)

TELSTAR 18 — 138.0 East (TES018K1)

C-Band: TELSTAR 18 — 138.1 East (APS005CB)

EXPRESS AM3 — 140.0 East (EXPAM3C6)

EXPAM3KU

SUPERBIRD C — 144.0 East (SUP00CJH)

SUP00CJV

SUP00CKA

AGILA 2 — 146.0 East (AGI002CA)

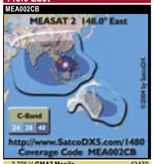
AGI002KP

TV Digital	TV Digital Crypt	TV High Definition	Data Channel	TV Analog
Radio Digital	Radio Digital Crypt	TV High Definition Crypt		Radio Analog

Freq GHz Pol Channel Name	Symbol rate
12.301 H BBC 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
12.301 H DAW SW DL	25600
12.301 H Elle Astrology	25600
12.301 H Elle Beauty	25600
12.301 H IP Data Broadcast	25600
12.301 H M@gic Games	25600
12.301 H M_D@ily	25600
12.301 H NewsCast	25600
12.301 H Nokia SW DL	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
12.541 V DATA	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
11.537 H OTA Opentech	35500
11.537 H STB Opentech	35500
12.407 H ASTRO SUPERSPORT	30000
12.407 H ASTRO WARNA LAI TOI	30000
12.407 H ASTRO XPRESI	30000
12.407 H CARTOON NTWK	30000
12.407 H CCTV-4	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

Freq GHz Pol Channel Name	Symbol rate
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

OPT02DKA

Freq GHz Pol Channel Name	Symbol rate
12.394 H ALTG	22500
12.394 H BOM	22500
12.394 H C17	22500
12.394 H DYES	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 STAR	22500
12.394 H INFO	22500
12.394 H R49	22500
12.394 H R50	22500
12.394 H R51	22500
12.394 H R52	22500
12.394 H R53	22500
12.394 H R54	22500
12.394 H R55	22500
12.394 H R56	22500
12.394 H R58	22500
12.394 H R59	22500
12.394 H R60	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 CLK	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
12.407 V .	30000
12.421 H 4E	22500
12.421 H AJE	22500
12.421 H ALSH	22500
12.421 H BAGD	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 ITN	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
12.581 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 TURK	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
12.608 H ALPH	22500
12.608 H CEST	22500
12.608 H COLM	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 C105	22500
12.608 H ERT	22500
12.608 H KTV	22500
12.608 H SCTV	22500
12.608 H BHTR	22500
12.608 H FARD	22500
12.608 H MRT	22500
12.608 H R38	22500
12.608 H R41	22500
12.608 H R47	22500
12.608 H R48	22500
12.608 H RAFI	22500
12.608 H RDPR	22500
12.608 H ROSA	22500
12.608 H CITY	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 R100	22500
12.644 H R102	22500
12.644 H R103	22500
12.644 H R104	22500
12.644 H R105	22500
12.644 H R106	22500
12.644 H R107	22500
12.644 H R108	22500
12.644 H R109	22500
12.644 H R110	22500
12.644 H R111	22500
12.644 H R112	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 ALMU	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 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 R113	22500
12.671 H R115	22500
12.671 H R23	22500
12.671 H R24	22500
12.671 H RADD	22500
12.671 H SRFM	22500
12.671 H 2ME	22500
12.707 V ITVN	22500
12.707 V Setanta Sports	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 TTV	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 DMC	22500
12.733 V DUNA	22500
12.733 V ERT	22500
12.733 V Kurdsat	22500
12.733 V NHK World TV	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

Freq GHz Pol Channel Name	Symbol rate
12.545 V 3ABN 2	22500
12.545 V Deepam	22500
12.545 V NHK World 2	22500
12.545 V 3ABN Radio 2	22500

JCSAT 2A
154.0 East

JCS02AKJ

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

OPTUS C1
156.0 East

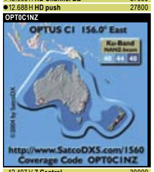
OPT0C1NA

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 ASTRA Awards 2008	30000
12.305 H EPG	30000
12.305 H GamesWorld	30000
12.305 H POR EPG	30000
12.305 H AITV100	30000
12.305 H AITV72	30000
12.305 H AITV96	30000
12.305 H AITV97	30000
12.305 H AITV98	30000
12.305 H AITV99	30000
12.305 H Boot	30000
12.305 H Mind	30000
12.305 H MindGames	30000
12.305 H Playin'TV	30000
12.305 H The Arcade	30000
12.305 H Tune	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 Goldfields	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 Animal	27800
12.398 H Arena	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
12.438 H ASTRA	27800
12.438 H ASTRA AWARDS - VO	27800
12.438 H Ch998 Modem Test App	27800
12.438 H SWDL Satellite (ND	27800
12.447 V AUSA	27800
12.447 V SPA	27800
12.447 V SPB	27800
12.447 V SPF	27800
12.447 V SPM	27800
12.447 V SPW	27800
12.447 V Arcade	27800
12.447 V Gamesworld	27800
12.447 V GAMESWORLD	27800
12.447 V Mindgames	27800
12.447 V PickNPlay	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
12.728 V .	24450

OPTC1NB

Freq GHz Pol Channel Name	Symbol rate
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 SBS SA	30000
12.527 V WIN	30000
12.527 V WLK	30000
12.527 V NITV	30000
12.527 V 2CUZ	30000
12.527 V SPY	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 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 SBS R SA	30000
12.527 V Teab-ba	30000
12.527 V ARDS	30000
12.527 V Arrow	30000
12.527 V RABS TONE	30000
12.527 V SMA BUS6	30000
12.527 V SMA BUS7	30000
12.527 V .	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
12.598 H (Empty)	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
12.638 H AIR active	27800
12.638 H AIR ACTIVE	27800
12.638 H (Empty)	27800
12.688 H ESPN HD	27800
12.688 H Disc HD Channel AA	27800
12.688 H HD Channel D	27800
12.688 H Disc / NGeo HD	27800
12.688 H HD Channel BB	27800
12.688 H HD push	27800

OPTC1NZ



Freq GHz Pol Channel Name	Symbol rate
12.407 V Central	30000
12.407 V BTV1	30000
12.407 V SBS QLD	30000
12.407 V SBS SE	30000
12.407 V SBS WA	30000
12.407 V INFO 156°E	30000
12.407 V CBAA	30000
12.407 V NIRS	30000
12.407 V QTAB	30000
12.407 V Red FM	30000
12.407 V RPH	30000
12.407 V SBS R NT	30000
12.407 V SBS R QLD	30000
12.407 V SBS R SE	30000
12.407 V SBS R WA	30000
12.407 V SMA BUS3	30000
12.407 V SMA BUS4	30000
12.407 V SMA BUS8	30000
12.407 V Spirit	30000
12.407 V TAIMA	30000
12.407 V UCB	30000
12.407 V .	30000

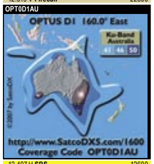
Freq GHz Pol Channel Name	Symbol rate
12.693 V ABC1	28650
12.693 V ABC2	28650
12.693 V 612ABC Bris	28650
12.693 V 702ABC Syd	28650
12.693 V 774ABC Melb	28650
12.693 V 891ABC Adel	28650
12.693 V ABC Classic	28650
12.693 V ABC Local SA	28650
12.693 V ABC LocalVic	28650
12.693 V ABC Nth Qld	28650
12.693 V ABC Regnl	28650
12.693 V ABC LocalNSW	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 Country	28650
12.693 V ABC Radio Nat	28650
12.693 V triple j	28650

OPTUS D1
160.0 East

OPTD1AN

Freq GHz Pol Channel Name	Symbol rate
12.427 H GWN	14289
12.427 H WIN WA 16:9	14289
12.519 V Cartoon Network	22500
12.519 V CTV 1	22500
12.519 V J2	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 80's Hits	22500
12.519 V Ad Tracks	22500
12.519 V Classical	22500
12.519 V George FM	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
12.519 V CA2 Download Servi	22500
12.519 V Firecall	22500

OPTD1AU



Freq GHz Pol Channel Name	Symbol rate
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

C-Band: INTELSAT 8
166.0 East

INT008CH

Freq GHz Pol 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 MTV India	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
4.020 H Atlantic	26470
4.020 H ESPN	26470
4.020 H ESPN2 Caribbean	26470
4.020 H Latin Caribbean	26470
4.020 H Middle East	26470
4.020 H Pac Rim	26470
4.020 H VC/Occasional Pal	26470
4.060 H Premium	16180
4.060 H NTSC English	16180
4.060 H NTSC Japanese	16180
4.060 H PAL English	16180
4.060 H PAL Japanese	16180
4.060 H Audio for Radio	16180

INT008CV

Freq GHz Pol Channel Name	Symbol rate
3.790 V KBS WORLD	6507
3.790 V YTN	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 TVBSN	17500
3.833 V TVBSG	17500
3.833 V UTILITY	17500
3.833 V Audio Only	17500
3.880 V A copy of ANC (stati	28700
3.880 V A copy of TFC 1 (cab	28700
3.880 V ABS-CBN 1 (cable)	28700
3.880 V ABS-CBN halalan	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 PBB	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 (c	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
3.972 V SBS WORLD	2206
4.050 V TVB 8	13236
4.121 V GEMTV	5555
4.121 V NET-25	5555
4.121 V Data	5555
4.131 V DAAI	5800
4.131 V HZ	5800

INTELSAT 8
166.1 East

INT008KA

Freq GHz Pol 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 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 Utilisima	28800
12.286 H VTV Uruguay	28800
12.286 H Wine TV	28800
12.286 H Sateliradio	28800
12.326 H E! Ent	28800
12.326 H Movie Ex	28800
12.326 H Movie Gr	28800
12.326 H Movie One	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	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 RFS 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 TFC	13845
12.575 H ANC	13845
12.575 H CINEMA1	13845
12.575 H DA-I	13845
12.575 H ISHTAR TV	13845
12.575 H KC	13845
12.575 H TFC	13845
12.575 H DWRR	13845
12.575 H DZMM	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
12.646 H DSD	28060
12.646 H DSD ARION	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
12.686 H Coship Code Download	28125
12.726 H AT 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 HRT	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 General Program	28060
12.726 H Voice of People	28060
12.726 H Voice of Youth	28060

C-Band: INTELSAT 2
169.0 East

INT002CO

Freq GHz Pol Channel Name	Symbol rate
3.958 V B/U Weather Channel	6621
3.958 V Metromux-SA2	6621
3.958 V NAPSA2	6621

INT002CP

Freq GHz Pol Channel Name	Symbol rate
3.901 H PAS Adhoc I VC 2	30800
3.901 H Adhoc III VC 7	30800
3.901 H Australian Broadcast	30800
3.901 H BBC	30800
3.901 H Copy VC 4 P2 DCP U	30800
3.901 H IQRAA	30800
3.901 H P2 CCP Upgrade	30800
3.901 H PAS Adhoc II VC 4	30800
3.901 H Radio Australia ABC	30800
3.958 V B/U Weather Channel	6620
3.958 V Metromux-SA2	6620
3.958 V NAPSA2	6620
3.992 V Channel 1	26470
3.992 V Channel 3	26470
3.992 V Channel 5	26470
3.992 V MetroMux Channel 8	26470
3.992 V Channel 2	26470
3.992 V Channel 4	26470
3.992 V Channel 6	26470
3.992 V MetroMux Channel 7	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

INTELSAT 2
169.1 East

INT002KA

Freq GHz Pol Channel Name	Symbol rate
12.281 H FTV	3700

INT002KC

Freq GHz Pol Channel Name	Symbol rate
12.281 V ABC TV Northern	27500
12.281 V Win TV West	27500
12.400 H TVBS Newsnet	3000
12.401 V Arirang TV	4400

INT002KN

Freq GHz Pol Channel Name	Symbol rate
12.604 V JAXA/NASDA	5429

AMC 23
172.0 East

Freq GHz Pol Channel Name	Symbol rate
3.779 H Data	26404

INTELSAT 701
180.0 East

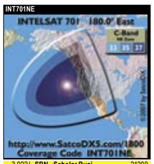
INT701CB

Freq GHz Pol 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
4.055 L Sky Multiplex	16500
4.175 L AFRTS News	3679
4.175 L AFRTS Pacific	3679
4.175 L AFRTS Sports	3679

INT701KP

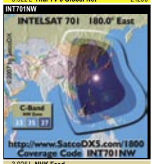
Freq GHz Pol Channel Name	Symbol rate
11.060 V Cinefaz	30000
11.060 V Infosport	30000
11.060 V LCI	30000
11.060 V M6	30000
11.060 V M6 Music	30000
11.060 V Matavision	30000
11.060 V Odyssee	30000
11.060 V TeleToon	30000
11.060 V TPS Star	30000
11.060 V Tahiti Nui TV	30000
11.060 V Europe 2	30000
11.060 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 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

INT701NE



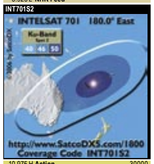
Freq GHz Pol Channel Name	Symbol rate
3.922 L SBN - Scholar Busi	21200
3.922 L Thai TV 5 Global Net	21200

INT701NW



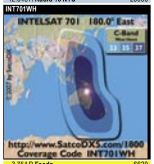
Freq GHz Pol Channel Name	Symbol rate
3.925 L NHK Feed	11575

INT701S2



Freq GHz Pol Channel Name	Symbol rate
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

INT701WH



Freq GHz Pol Channel Name	Symbol rate
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	6111
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. 30 - 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)

NSS005AU

Freq GHz Pol 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 Territ	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

NSS005GL

Freq GHz Pol Channel Name	Symbol rate
4.185 R BYU TV	4377

NSS005NW

Freq GHz Pol Channel Name	Symbol rate
3.971 L AFN Family	28000
3.971 L AFN Guide	28000
3.971 L AFN Movies	28000
3.971 L AFN News	28000
3.971 L AFN Prime Atlantic	28000
3.971 L AFN Prime Korea	28000
3.971 L AFN Prime Pacific	28000
3.971 L AFN Spectrum	28000
3.971 L AFN Sports	28000
3.971 L Pentagon Channel	28000
3.971 L Adult Rock'n'Roll	28000
3.971 L AFN Voice Channel	28000
3.971 L Bright AC	28000
3.971 L Contingency Channel	28000
3.971 L Country Music	28000
3.971 L ESPN Plus	28000
3.971 L Fox Sports Plus	28000
3.971 L Hot AC	28000
3.971 L Newsreel	28000
3.971 L NPR Worldwide (AFR	28000
3.971 L Oldies Radio	28000
3.971 L The Touch	28000
3.971 L Z-Rock	28000

NSS005WH

Freq GHz Pol Channel Name	Symbol rate
3.745 R Data service	45005
3.920 R RFO-Tempo	2893

ECHOSTAR 1, 2
212.0 East (148.0 West)

ECH001KB

Freq GHz Pol 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 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 International	20000
12.486 R TVN 24	20000
12.516 L KADY-TV	20000
12.516 L KAZA-TV	20000
12.516 L KDOC-TV	20000
12.516 L KFTR-TV	20000
12.516 L KHIZ-TV	20000
12.516 L KLCS-TV	20000
12.516 L KOCE-TV	20000
12.516 L KRCA-TV	20000
12.516 L KSCI-TV	20000
12.516 L KVCR-TV	20000
12.516 L KVEA-TV	20000
12.545 R Business TV	20000
12.545 R CC Business	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 KRQE-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

The Full Chart with the most up-to-date channel data is available exclusively for TELE-satellite readers from SatcoDX's CD "World of Satellites"
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Freq GHz Pol Channel Name Symbol rate

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

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

3.740 V KMGH-TV
3.740 V C Band Talk
3.800 H KDVR-TV
3.800 H Colorado Talking Boo
3.800 H WXkie
3.820 V KCNC-TV
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
3.980 V KUSA-TV
4.020 V Feed
4.080 H CRN 1
4.100 V Feed 6500
4.160 H KWGN-TV

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

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
3.760 V Nickelodeon East
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
3.820 H E! East
3.840 V In HD 19510
3.840 V In HD2 19510
3.860 H Test Card 19510
3.860 V The Guide 19510
3.880 V QVC US
3.900 H HSN - Home Shoppin
3.920 V MTV East 29270
3.920 V VH1 East 29270
3.956 H G4 Tech TV US 4000
3.960 V CNBC US
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
4.040 V MTV East
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
4.080 V C-SPAN 2
4.100 H Showtime HD East 29270
4.100 H The Movie Channel HD 29270
4.120 V Discovery Channel Ea
4.140 H Flix
4.180 H The Weather Channel 29270

C-Band: GALAXY 15
227.0 East (133.0 West)
GXY015CB

3.720 H Comedy Central West
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
3.760 H 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
3.800 H Classic Arts Showcas
3.800 V Spike TV
3.840 H The Disney Channel W
3.860 V Cartoon Network
3.880 H ESPN 29270
3.880 H ESPN 2 29270
3.880 H ESPN 2 Alternate 29270
3.880 H ESPN Alternate 29270
3.900 V MSNBC
3.920 H EWTN - Eternal Wor 5787
3.920 H EWTN Catholic Radi
3.920 H EWTN Radio Catolic
3.940 V ShopNBC
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
3.980 V Feeds
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 International 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
4.040 H The Inspirational Li
4.040 H WNMX FM Mix 106
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
4.080 H Cinemax East
4.100 V HGTV US
4.120 H USA Network West
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 V Americas Store 29270
4.180 V SciFi East 29270
4.180 V SciFi West 29270
4.180 V Trio 29270
4.180 V USA East 29270
4.180 V USA West 29270

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

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
3.840 V C-SPAN
3.840 V BBC World Service
3.840 V C-SPAN Radio
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 East 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
3.880 H Wisdom TV 26470
3.880 H Bloomberg TV US 26470
3.880 H Do-It-Yourself Netwo 19510
3.880 H Fine Living 19510
3.880 H Food Network East 19510
3.880 H HGTV West 19510
3.900 H America's Store
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
3.960 H The Weather Channel
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
4.040 H The Movie Channel Ea
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 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
4.160 V E! TV East

GALAXY 27
231.0 East (129.0 West)
INTAM7CN

3.974 V Test Card 5632
11.780 H StarBand 30000
11.964 H White Springs TV 2920
12.100 H StarBand 30000

ECHOSTAR 5
231.1 East (128.9 West)
ECH005KB

12.224 R DishNetwork 21500

HORIZONS 1
233.0 East (127.0 West)
HOR001KB

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

Coming Soon

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)
GXY014CB

3.760 H TBN - Trinity Broa
3.760 H KTBN - Trinity Bro
3.765 V The Golf Channel US 3600
3.800 H CNN USA
3.800 H CNN Radio News
3.820 V TBS Superstation (
3.820 V Brother Stair
3.820 V WRN 1 North America
3.820 V WRN 2 North America
3.840 H The Disney Channel E
3.860 V HBO West
3.860 V WCPE
3.880 H ESPN
3.920 V ABC Family East
3.940 V Discovery Channel We
3.960 V CNBC US
3.980 V ESPN 2
4.000 H HBO East
4.020 V Cinemax West
4.040 H TNT East
4.040 H CNN Radio Noticias
4.060 V Sci Fi East
4.080 H USA Network East
4.100 V BET - Black Entert
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
4.140 V CNN Headline News
4.160 V CNN Radio
4.160 H A&E East
4.180 V Showtime East

Coming Soon

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
3.960 H Tribune HD Content 29270
3.960 H WGN AM Network 29270

GALAXY 10R
237.0 East (123.0 West)
GXY10RKB

11.720 V KEGS 27692
11.720 V KFDF 27692
11.720 V KKTU 27692
11.720 V KLMN-GFMT 27692
11.720 V KMCC 27692
11.720 V KMMF 27692
11.720 V KPBI - AR 27692
11.720 V KUTH-KU 27692
11.720 V KWCE-RTN 27692
11.720 V KWWF 27692
11.720 V UNIV-ARK 27692
11.720 V WBLU 27692
11.720 V WCIG 27692
11.720 V WNYI 27692
11.732 H Channel Four 13240
11.732 H Channel One 13240
11.732 H Channel Two 13240
11.732 H VISN 11 13240
11.732 H Channel Three-VBA 13240
11.732 H Wide Band Data 13240
11.798 V DAYSTAR 26657
11.798 V KATV 26657
11.798 V KCBU 26657
11.798 V KDEV-LP 26657
11.798 V KKYK 26657
11.798 V KQUP 26657
11.798 V KTVC 26657
11.798 V KUTF 26657
11.798 V KUWF 26657
11.798 V KWBF 26657
11.798 V KWBM 26657
11.798 V KWKO 26657
11.798 V WGMU 26657
11.798 V WMQF 26657
11.798 V WPXS 26657
11.798 V WUMN Ku 26657

11.805 H Feeds ((Empty Name)) 4580
11.905 V CH 1 4352
11.965 V AAJ-TV 5787
11.965 V HDTV TELEPORT INF 5787
11.965 V HUM-TV 5787
11.965 V TV-ONE 5787
11.965 V WAQT-TV 5787
12.059 H Feeds ((Empty Name)) 5000
12.078 V KBS WORLD 3680
12.104 V SNG 2222
12.114 V RETROJAMS 4340
12.114 V KBZT 4340
12.136 V Service 1 2666

Coming Soon

3.920 V OS Download 26470
3.920 V Soap East 26470
3.920 V Soap West 26470
3.920 V Toon East 26470
3.920 V Toon West 26470
3.920 V ABC Fam Backhaul 26470
4.160 V BIO HD 29270
11.731 H Channel Four 13240
11.731 H Channel One 13240
11.731 H Channel Two 13240
11.731 H VISN 11 13240
11.731 H Channel Three-VBA 13240
11.731 H Wide Band Data 13240

GALAXY 10R
237.0 East (123.0 West)
GXY10RCB

3.795 V Flix West 19510
3.795 V Showtime Beyond West 19510
3.795 V Showtime Extreme Wes 19510
3.795 V Showtime Showcase We 19510
3.795 V Showtime Too West 19510
3.795 V Showtime West 19510
3.795 V Sundance Channel Wes 19510
3.795 V The Movie Channel We 19510
3.795 V The Movie Channel Xt 19510
3.812 V Showtime Family West 9760
3.812 V Showtime Next West 9760
3.812 V Showtime Women West 9760
3.837 V TVN 2 19510
3.837 V TVN 3 19510
3.837 V TVN 4 19510
3.837 V TVN 5 19510
3.837 V TVN 6 19510
3.837 V TVN 7 19510
3.837 V TVN 8 19510
3.837 V TVN 9 19510
3.840 V unknown 6065
3.880 V 70s Oldies 29270
3.880 V 80s Hits 29270
3.880 V 90s Hits 29270
3.880 V Acid Jazz 29270
3.880 V Adult Alternative 29270
3.880 V Adult Contemporary 29270
3.880 V Album Rock 29270
3.880 V Alternative Rock 29270
3.880 V Beautiful Instrument 29270
3.880 V Blues 29270
3.880 V Children's 29270
3.880 V Classic R&B 29270
3.880 V Classic Rock 29270
3.880 V Contemporary Christi 29270
3.880 V Dance 29270
3.880 V Fiesta Tropical 29270
3.880 V Flashback New Wave 29270
3.880 V Folk Rock 29270
3.880 V Golden Oldies 29270
3.880 V Gospel 29270
3.880 V Great Standards 29270
3.880 V Hard Rock 29270
3.880 V Holiday Happenings 29270
3.880 V Hottest Hits 29270
3.880 V Jazz 29270
3.880 V Latin Contemporary 29270
3.880 V Listening Room 29270
3.880 V Lite Classical 29270
3.880 V Modern Country 29270
3.880 V New Age 29270
3.880 V Rap 29270
3.880 V Reggae 29270
3.880 V Regional Mexican 29270
3.880 V Retro Dance 29270
3.880 V Rock & Roll Oldies 29270
3.880 V Salsa 29270
3.880 V Show Tunes 29270
3.880 V Smooth Jazz 29270
3.880 V Soft Hits 29270
3.880 V Swing 29270
3.880 V Symphonic 29270
3.880 V Tejano 29270
3.880 V Traditional Country 29270
3.880 V Urban Adult Contempo 29270
3.880 V Urban Beat 29270
3.920 V OS Download 26470
3.920 V Soap East 26470
3.920 V Soap West 26470
3.920 V Toon East 26470
3.920 V Toon West 26470
3.920 V ABC Fam Backhaul 26470
3.940 V Playboy TV 19510
3.940 V TVND Theatre 16 19510
3.940 V TVND Theatre 17 19510
3.940 V TVND Theatre 18 19510
3.940 V TVND Theatre 19 19510
3.940 V TVND Theatre 20 19510
3.940 V TVND Theatre 21 19510
3.940 V TVND Theatre 22 19510
3.940 V TVND Theatre 23 19510
3.940 V TVND Theatre 24 19510
3.940 V 70's Super Hits 19510
3.940 V American Originals 19510
3.940 V Atmospheres 19510
3.940 V Big Band 19510
3.940 V Boleros 19510
3.940 V Brazilian Pop 19510
3.940 V Classic Country 19510
3.940 V Classic R&B 19510
3.940 V Contemporary Christi 19510
3.940 V Dance 19510
3.940 V Folkloricа 19510
3.940 V International Love S 19510
3.940 V Jazz 19510
3.940 V Lite Classical 19510
3.940 V Metal 19510
3.940 V Showcase 2 19510
3.940 V Soft Rock 19510
3.940 V Tejano 19510
3.940 V Tropical 19510
3.940 V Worldbeat 19510
3.960 V TVN 33 19510
3.960 V TVN Action 19510
3.960 V TVN Events Electric 19510
3.960 V TVN HotBody 19510
3.960 V TVN Passion Soft 19510
3.960 V TVN TeleNuestros 19510
3.960 V GRTV 2 19510
3.960 V GRTV 3 19510
3.960 V GRTV 4 19510
3.960 V 70's Oldies 19510
3.960 V 80's Hits 19510
3.960 V 90's Hits 19510
3.960 V Acid Jazz 19510
3.960 V Adult Alternative 19510
3.960 V Adult Contemporary 19510
3.960 V Album Rock 19510
3.960 V Alternative Rock 19510
3.960 V Beautiful Instrument 19510
3.960 V Blues 19510
3.960 V Cable Radio 1 19510
3.960 V Cable Radio 2 Sport 19510
3.960 V Cable Radio 3 Talk R 19510
3.960 V Cable Radio 4 Lifest 19510
3.960 V Cable Radio 5 Law&Or 19510
3.960 V Cable Radio 6 Issues 19510
3.960 V Children's 19510
3.960 V Classic R&B 19510
3.960 V Classic Rock 19510
3.960 V Contemporary Christi 19510
3.960 V Dance 19510
3.960 V Flashback New Wave 19510
3.960 V Folk Rock 19510
3.960 V Golden Oldies 19510
3.960 V Gospel 19510
3.960 V Great Standards 19510
3.960 V Hard Rock 19510
3.960 V Holiday Happenings 19510
3.960 V Hot Country 19510
3.960 V Hottest Hits 19510
3.960 V Jazz 19510
3.960 V Latin Contemporary 19510
3.960 V Listening Room 19510
3.960 V Lite Classical 19510
3.960 V Modern Country 19510
3.960 V New Age 19510
3.960 V Rap 19510
3.960 V Reggae 19510
3.960 V Retro Dance 19510
3.960 V Rock 'n' Blues 19510
3.960 V Rock 'n' Roll Oldies 19510
3.960 V Salsa 19510
3.960 V Show Tunes 19510
3.960 V Smooth Jazz 19510
3.960 V Soft Hits 19510
3.960 V Swing 19510
3.960 V Symphonic 19510
3.960 V Traditional Country 19510
3.960 V Urban Adult Contempo 19510

3.960 V Urban Beat 19510
3.960 V Vocal Blends 19510
3.970 V Symphonic 11162
3.975 H Showtime Family West 19510
3.975 H Showtime HDTV West 19510
3.975 H Showtime Next West 19510
3.975 H Showtime Women West 19510
4.100 H ESPN Classic 29270
4.100 H ESPN Deportes 29270
4.100 H ESPNews 29270
4.100 H Lifetime Movie Netwo 29270
4.100 H Lifetime Real Women 29270
4.100 H SoapNet 29270
4.100 H Toon Disney 29270
4.100 H C-SPAN 3 29270
4.120 V ESPN PPV1 29270
4.120 V ESPN PPV2 29270
4.120 V ESPN PPV3 29270
4.120 V ESPN PPV4 29270
4.120 V ESPN PPV5 29270
4.120 V ESPN PPV6 29270
4.140 H ESPN 2 HD 29270
4.140 H ESPN HD 29270
4.140 H ESPN HD Alternate 29270
4.160 V A&E East 29270
4.160 V A&E West 29270
4.160 V Military History Cha 29270
4.160 V The History Channel 29270
4.160 V The History Channel 29270
4.160 V The History Channel 29270
4.180 H The Outdoor Channel 29270
4.180 H JLTV 29270
4.180 H The Outdoor CH Eas 29270
4.180 H The Outdoor CH Eas 29270
4.180 H The Outdoor CH Wes 29270
4.180 H The Outdoor CH Wes 29270

ECHOSTAR 9
239.0 East (121.0 West)
ECH009KB

12.016 V SuperDISH Info Car 20000
12.016 V DishNetwork Package 20000

GALAXY 23
239.1 East (120.9 West)
INTA13CB

3.707 H CLEVELAND 5632
3.714 H Cox Sports TV 4340
3.719 H TVW 1 3000
3.724 H The Sportsmans Chann 3000
3.727 V MASN 6065
3.740 V In Demand 13235
3.751 H ETV Bangla 8385
3.751 H ETV Gujarati 8385
3.751 H ETV Telugu 8385
3.765 H In Demand 19510
3.778 H ImaginAsian TV 1860
3.780 V In Demand 22500
3.800 H Hot Net Plus 19510
3.800 H Playboy TV Classic 19510
3.800 H Playboy TV en Espano 19510
3.800 H Spice Hot 19510
3.800 H Spice Live 19510
3.800 H Spice Platinum 19510
3.815 V TBN Enlace USA 19510
3.815 V TV Superstore 19510
3.832 V OlympuSat Package 19510
3.900 V 24HTVE 27684
3.900 V DOCUTVE 27684
3.900 V TVEA1 27684
3.900 V TVEA2 27684
3.900 V AJE 27684
3.900 V EURONEWS 27684
3.900 V IMF 27684
3.900 V RCLA 27684
3.900 V REE 27684
3.900 V RNE1 27684
3.900 V RNE3 27684
3.900 V RNE5 27684
3.940 V APTN Test Card 29270
3.940 V Video Rola 29270
3.940 V Cine Latino 29270
3.940 V HTV 29270
3.940 V Infinito 29270
3.940 V Telefe Internacional 29270
3.940 V Utilisima Satelital 29270
3.940 V ZEE TV USA 29270
3.970 H The Sportsmans Chann 14027
3.980 V AE Biography MPEG 27690
3.980 V CNBC2 MPEG Audio 27690
3.980 V DIY MPEG Audio 27690
3.980 V History Channel In 27690
3.980 V IFC MPEG Audio 27690
3.980 V Lifetime MPEG Audi 27690
3.980 V ZDTV MPEG Audio 27690
3.980 V Much Music MPEG Au 27690
4.000 H Playboy Director's C 19510
4.000 H SI TV 19510
4.000 H Spice 19510
4.000 H Spice 2 19510
4.000 H The Hot Network 19510
4.000 H The Hot Zone 19510
4.000 H The Tennis Channel 19510
4.000 H CRN 1 19510
4.000 H CRN 2 - Sports Talk 19510
4.000 H CRN 3 - Lifestyles 19510
4.000 H CRN 4 - Lifestyles 19510
4.000 H CRN 5 - Law & Order 19510
4.000 H CRN 6 - Issues 19510
4.000 H CRN - Talk Radio N 19510
4.060 V AMERICA ONE 20000
4.060 V FIRESTONE COMMUNI 20000
4.060 V SORPRESSA 20000
4.060 V STC 20000
4.100 V Gospel Music 29270
4.100 V JCTV 29270
4.100 V TBN US 29270
4.100 V The Church Channel 29270
4.120 V Jewelry TV 29270
4.140 V Azteca America Este 25325
4.140 V Azteca America Oeste 25325
4.140 V Azteca Este 25325
4.140 V Azteca Trece 25325
4.160 H A Taste of Spice 19510
4.160 H Spice Live 19510
4.160 H Spice Platinum 19510
4.160 H Spice Ultimate 19510
4.172 V Pleasure 14600
4.172 V TEN 14600
4.172 V TENBlox 14600
4.172 V TENBlue 14600
4.172 V TENClips 14600
4.172 V TENXtsy 14600
4.186 V HITN 5184
4.186 V HITN CH2 5184

ECHOSTAR 7, AMC16
241.0 East (119.0 West)
AMC016KB

11.720 R Dish Network multipl 26000
ECH007KB

12.224 R KATU-TV 20000
12.224 R KCPT-TV 20000
12.224 R KCTV-TV 20000
12.224 R KCWE-TV 20000
12.224 R KDIW-TV 20000
12.224 R KIKU-TV 20000
12.224 R KMBC-TV 20000
12.224 R KMCI-TV 20000
12.224 R KMSB-TV 20000
12.224 R KOIN-TV 20000
12.224 R KOKI-TV 20000
12.224 R KOPB-TV 20000
12.224 R KOTV-TV 20000
12.224 R KPDX-TV 20000
12.224 R KPTV-TV 20000
12.224 R KSHB-TV 20000
12.224 R KSMO-TV 20000
12.224 R KTUL-TV 20000
12.224 R KWBP-TV 20000
12.224 R WBZ-TV 20000
12.224 R WCAX-TV 20000
12.224 R WCVB-TV 20000
12.224 R WDAF-TV 20000
12.224 R WFFF-TV 20000
12.224 R WFXT-TV 20000
12.224 R WGBH-TV 20000
12.224 R WHDH-TV 20000
12.224 R WLVI-TV 20000
12.224 R WPEC-TV 20000
12.224 R WPTZ-TV 20000
12.224 R WVNY-TV 20000
12.239 L BET 20000
12.239 L Bravo US 20000
12.239 L CNN Financial Networ 20000
12.239 L Court TV 20000
12.239 L Empire Sports Networ 20000
12.239 L Galaxision Este 20000
12.239 L HBO East 20000
12.239 L PPV Sports 20000
12.239 L Tech TV 20000
12.239 L The Hot Zone 20000
12.253 R KAUT-TV 20000
12.253 R KCAL-TV 20000
12.253 R KCET-TV 20000
12.253 R KCOP-TV 20000
12.253 R KCPQ-TV 20000
12.253 R KCTS-TV 20000
12.253 R KETA-TV 20000
12.253 R KFMB-TV 20000
12.253 R KFOR-TV 20000
12.253 R KGTV-TV 20000
12.253 R KING-TV 20000
12.253 R KIRO-TV 20000
12.253 R KMEX-TV 20000
12.253 R KNSD-TV 20000
12.253 R KOCB-TV 20000
12.253 R KOCO-TV 20000
12.253 R KOED-TV 20000
12.253 R KOKH-TV 20000
12.253 R KOMO-TV 20000
12.253 R KONG-TV 20000
12.253 R KPBS-TV 20000
12.253 R KSBI-TV 20000
12.253 R KSTW-TV 20000
12.253 R KSWB-TV 20000
12.253 R KTFO-TV 20000
12.253 R KTWB-TV 20000
12.253 R KWBT-TV 20000
12.253 R KWTV-TV 20000
12.253 R WBFS-TV 20000
12.253 R WBTV-TV 20000
12.253 R WBZL-TV 20000
12.253 R WCFE-TV 20000
12.253 R WCSV-TV 20000
12.253 R WFLX-TV 20000
12.253 R WLTV-TV 20000
12.253 R WNNE-TV 20000
12.253 R WPBF-TV 20000
12.253 R WPEC-TV 20000
12.253 R WPTV-TV 20000
12.253 R WTVX-TV 20000
12.253 R WXEL-TV 20000
12.253 R XETV-TV 20000
12.268 L C-SPAN 20000
12.268 L C-SPAN 2 20000
12.268 L ESPN 2 20000
12.268 L ESPNews 20000
12.268 L Flix East 20000
12.268 L Food Network US 20000
12.268 L GSN - Game Show Ne 20000
12.268 L Playboy TV 20000
12.268 L QVC US 20000
12.268 L TEN - The Erotic N 20000
12.268 L 70's Hits 20000
12.268 L Adult Contemporary 20000
12.268 L Concert Classics 20000
12.268 L Expressions 20000
12.268 L Light Classical 20000
12.268 L Tropical Breezes 20000
12.268 L Urban Adult 20000
12.282 R KAET-TV 20000
12.282 R KASW-TV 20000
12.282 R KDNL-TV 20000
12.282 R KETC-TV 20000
12.282 R KHBW-TV 20000
12.282 R KHOU-TV 20000
12.282 R KMOV-TV 20000
12.282 R KNXV-TV 20000
12.282 R KPHO-TV 20000
12.282 R KPLR-TV 20000
12.282 R KPNX-TV 20000
12.282 R KPRC-TV 20000
12.282 R KRIV-TV 20000
12.282 R KSAZ-TV 20000
12.282 R KSDK-TV 20000
12.282 R KTVI-TV 20000
12.282 R KTVK-TV 20000
12.282 R KTXH-TV 20000
12.282 R KUHT-TV 20000
12.282 R KUTP-TV 20000
12.282 R WAXN-TV 20000
12.282 R WBTV-TV 20000
12.282 R WCCB-TV 20000
12.282 R WCNC-TV 20000
12.282 R WGVU-TV 20000
12.282 R WJZY-TV 20000
12.282 R WLOS-TV 20000
12.282 R WNSC-TV 20000
12.282 R WOOD-TV 20000
12.282 R WSOC-TV 20000
12.282 R WSPA-TV 20000
12.282 R WTVI-TV 20000
12.282 R WWMT-TV 20000
12.282 R WWWB-TV 20000
12.282 R WXMI-TV 20000
12.282 R WYFF-TV 20000
12.282 R WZZM-TV 20000
12.297 L Discovery Health 20000
12.297 L ESPN Classic 20000
12.297 L Fox News Channel 20000
12.297 L Fox Sports Alternate 20000
12.297 L Fox Sports Rocky Mou 20000
12.297 L HBO 2 East 20000
12.297 L HBO Signature East 20000
12.297 L IFC US 20000
12.297 L Showtime East 20000
12.297 L Toon Disney 20000
12.297 L Festive Italian 20000
12.311 R KAKW-TV 20000
12.311 R KAMU-TV 20000
12.311 R KBHK-TV 20000
12.311 R KBWB-TV 20000
12.311 R KCEN-TV 20000
12.311 R KGO-TV 20000
12.311 R KGUN-TV 20000
12.311 R KHRR-TV 20000
12.311 R KICU-TV 20000
12.311 R KMSB-TV 20000
12.311 R KNCT-TV 20000
12.311 R KNTV-TV 20000
12.311 R KOLD-TV 20000
12.311 R KPIX-TV 20000
12.311 R KQED-TV 20000
12.311 R KTTU-TV 20000
12.311 R KTVU-TV 20000
12.311 R KUAT-TV 20000
12.311 R KVOA-TV 20000
12.311 R KWBA-TV 20000
12.311 R KWBU-TV 20000
12.311 R KWKT-TV 20000
12.311 R KWTX-TV 20000
12.311 R KXAM-TV 20000
12.311 R KXXV-TV 20000
12.311 R WASV-TV 20000
12.311 R WBSC-TV 20000
12.311 R WFYI-TV 20000
12.311 R WGN-TV 20000
12.311 R WHNS-TV 20000
12.311 R WISH-TV 20000
12.311 R WFLI-TV 20000
12.311 R WNDY-TV 20000
12.311 R WOTV-TV 20000
12.311 R WPWR-TV 20000
12.311 R WRAL-TV 20000
12.311 R WRAZ-TV 20000
12.311 R WRDC-TV 20000
12.311 R WRTV-TV 20000
12.311 R WTHR-TV 20000
12.311 R WTLJ-TV 20000
12.311 R WTTV-TV 20000
12.311 R WTTW-TV 20000
12.311 R WTVW-TV 20000
12.311 R WUNC-TV 20000
12.311 R WXIN-TV 20000
12.326 L AMC - American Mov 20000
12.326 L CMT US 20000
12.326 L Discovery Channel 20000
12.326 L ESPN 20000
12.326 L HBO Family East 20000
12.326 L PBS 20000
12.326 L Sci-Fi 20000
12.326 L Showtime West 20000
12.326 L The Learning Channel 20000
12.326 L TNT 20000
12.326 L Acoustic Crossroads 20000
12.326 L Country Classics 20000
12.326 L Country Currents 20000
12.326 L Environmental East 20000
12.326 L Foreground Music 20000
12.326 L Hot FM 20000
12.326 L New Country 20000
12.326 L Urban Beat 20000
12.341 R KBFD-TV 20000
12.341 R KBYU-TV 20000
12.341 R KFVE-TV 20000
12.341 R KGMB-TV 20000
12.341 R KHET-TV 20000
12.341 R KHNL-TV 20000
12.341 R KHON-TV 20000
12.341 R KIKU-TV 20000
12.341 R KITV-TV 20000
12.341 R KJZZ-TV 20000
12.341 R KPNZ-TV 20000
12.341 R KSL-TV 20000
12.341 R KSTU-TV 20000
12.341 R KTMW-TV 20000
12.341 R KTVX-TV 20000
12.341 R KUED-TV 20000
12.341 R KULC-TV 20000
12.341 R KUTV-TV 20000
12.341 R KUWB-TV 20000
12.341 R WABM-TV 20000
12.341 R WBIQ-TV 20000
12.341 R WBRC-TV 20000
12.341 R WIAT-TV 20000
12.341 R WJSU-TV 20000
12.341 R WTTO-TV 20000
12.341 R WVTM-TV 20000
12.355 L ESPN 2 Alternate 20000
12.355 L ESPN Alternate 20000
12.355 L Fox Sports Bay Area 20000
12.355 L Fox Sports New York 20000
12.355 L Fox Sports South 20000
12.355 L Showtime Extreme Eas 20000
12.355 L The Movie Channel Ea 20000
12.355 L The Movie Channel Xt 20000
12.355 L Universityhouse 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
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 Entertainment TV 20000
12.443 L HGTV US 20000
12.443 L MTV East 20000
12.443 L Nickelodeon East 20000
12.443 L TCM - Turner Classe 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
12.457 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

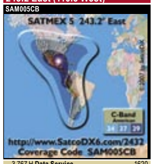
DIRECTV 7S
241.2 East (118.8 West)
DTV006KB

12.530 L Direct TV USA 20000

SATMEX 5
243.2 East (116.8 West)
SAM005KI

11.722 H Feed 30000
11.740 V DirecWay 30000
11.930 H Feed 8140
11.960 H Data Service 30000
11.980 V DirecWay 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
12.055 V Feed 3255
12.060 V TV Azteca feeds 5926
12.075 V Test Card 3256
12.080 H CCTV 4 25635
12.080 H CCTV 9 25635
12.080 H TV Poblanа 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
12.097 V Data Service 5000
12.110 H Feed 2000
12.150 H Data Service 3150
12.164 H BYU TV 3935
12.164 V Data Service 3015
12.182 V MTV 1 9666
12.182 V MTV 2 9666
12.182 V MTV 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)
SAM005CB



3.767 H Data Service 1620
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 IntelTV 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
3.889 H Data Service 3333
3.905 V Sports Book 2975
3.913 V Sexi Channel 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 6000
3.989 V Multimedios 2967
3.997 V XEIMT Canal 22 3515
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
4.034 V Data Service 2893
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
4.096 V Data Service 2893
4.103 H CNC Columbia 2593
4.107 H Teleformula 2012
4.133 H Canal 9 3617
4.160 V CMC
4.160 V ESPN 2
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 CI@se - Canal 22 19510
4.180 H Discovery Kids - Can 19510
4.180 H Canal 10 (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 Channel 19510

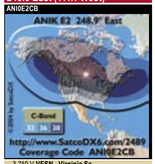
SOLIDARIDAD 2
245.1 East (114.9 West)
SOL002CS

3.720 V The History Channel 27000
3.720 V Canal de las Artes 27000
3.720 V CI@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 circulares 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)
SAM006C1

3.733 H TV Tabesquena 2875
3.744 V UTEG 2893
3.745 H Telemax 2976
3.752 V TELEMAR 2893
3.759 H MVS TV Test Card 2893
3.762 H TV Sat 2615
3.769 H TV Tabesquena 2933
3.772 V Unknown 3254
3.784 V Feed 3255
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 3213
3.847 V Service 1 3219
3.850 V Guanajuato 2255
3.855 V Canal 9 2670
3.856 H TV Tabesquena 2670
3.858 H SIS-JAL-RADIO-TV 2803
3.861 H Azteca Noreste 3255
3.863 H TV-NUEVO LEON 3200
3.865 H Unknown 2963
3.870 H TV Mexiquense 3200
3.872 H Radio Mexiquense 3617
3.888 H Central TV 3100
3.904 H Canal 9 3617
3.928 V Canal 7 2933
3.934 V Radio Sonora 3300
3.934 V Telemax 3300
3.943 V Unknown 3701
3.951 H Radio 1 de Marzo 3701
3.951 H SNT 3300
3.964 V Unknown 5000
4.018 H XHST Canal 13 2875
4.075 V MVS Test Card 3782
4.085 V TMM TV 2821
4.095 V MVS TV Test Card 3720
4.115 H XHRCG Canal 7 2963
4.140 H Cemesatel 3072
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)
ANI0E2CB



3.740 V VESN - Virginia Sa
3.860 H Unknown 5000
3.980 V VESN - Virginia Sa
ANI0E2KB

19.776 L WildBlue Satellite I 15000

ECHOSTAR 8, 10
250.0 East (110.0 West)

Coming Soon

12.224 R AZTCA 20000
12.224 R EDRAM 20000
12.224 R ELOVE 20000
12.224 R EMYST 20000
12.224 R EWAM 20000
12.224 R FRAE 20000
12.224 R FTRAW 20000
12.224 R HISTI 20000
12.224 R NBATV 20000
12.224 R PCLAS 20000
12.224 R PELIC 20000
12.224 R UNVSW 20000
12.224 R VS. 20000
12.239 L BITV 20000
12.239 L BITVV 20000
12.239 L KTBS 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 BLMBG 20000
12.239 L DGAMS 20000
12.239 L DGMSV 20000
12.239 L DISAV 20000
12.239 L DSNY 20000
12.239 L GLASS 20000
12.239 L THCAP 20000
12.239 L TVENT 20000
12.239 L WBSTR 20000
12.253 R BABY 20000
12.253 R BYUTV 20000
12.253 R CLIPS 20000
12.253 R COLRS 20000
12.253 R CURNT 20000
12.253 R DOC 20000
12.253 R HITN 20000
12.253 R HMC 20000
12.253 R JTV 20000
12.253 R OVATN 20000
12.253 R RSRCH 20000
12.253 R SLTV 20000
12.253 R TCLIP 20000
12.253 R TEEZ 20000
12.253 R UWTV 20000
12.253 R VERIA 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 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 CBS C 20000
12.282 R CNBCW 20000
12.282 R DIY 20000
12.282 R DOMIN 20000
12.282 R ESPND 20000
12.282 R FLVNG 20000
12.282 R G4 20000
12.282 R HISTE 20000
12.282 R REAL 20000
12.282 R TENIS 20000
12.282 R TMNDO 20000
12.282 R WSIU 20000
12.282 R ELECT 20000
12.297 L \$1.99 20000
12.297 L CNAL1 20000
12.297 L DRMTE 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
12.297 L PPV 20000
12.297 L IAD1 20000
12.297 L IAD6 20000
12.297 L PLXJ 20000
12.297 L ZP2IT 20000
12.341 R CINEL 20000
12.341 R DISCE 20000
12.341 R GOLF 20000
12.341 R GOLTV 20000
12.341 R MUN2 20000
12.341 R PLBYE 20000
12.341 R SUR 20000
12.341 R TLHIT 20000
12.341 R TR3S 20000
12.341 R TVEI 20000
12.341 R LUDI2 20000
12.355 L ALIVE 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 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 MUSIC 20000
12.355 L ATOOL 20000
12.355 L DISCO 20000
12.355 L TRVA 20000
12.355 L TRVAV 20000
12.370 R ACMAX 20000
12.370 R FOXMO 20000
12.370 R GAC 20000
12.370 R FSC 20000
12.370 R HBOCY 20000
12.370 R NTGEO 20000
12.370 R SBRND 20000
12.370 R SOAP 20000
12.370 R STYLE 20000
12.370 R STZIC 20000
12.370 R TMDOW 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 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
12.414 L PAPA 20000
12.414 L STVOD 20000
12.414 L VODAP 20000
12.428 R BOOM 20000
12.428 R CNNES 20000

TV Digital | TV Digital Crypt | TV High Definition | Data Channel | TV Analog
Radio Digital | Radio Digital Crypt | TV High Definition Crypt | | Radio Analog

Freq GHz | Pol | Channel Name | Symbol rate

ANIF1KS

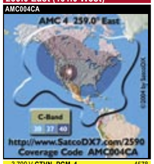

C-Band: ANIK F1
252.8 East (107.2 West)
ANIF1CN


AMC 1
257.0 East (103.0 West)
AMC001CB


AMC001KB


AMC 15
255.0 East (105.0 West)

Coming Soon

AMC 4
259.0 East (101.0 West)
AMC004CA


AMC004KA


South America
AMC 4
259.1 East (100.9 West)
AMC004KB


GALAXY 16
261.0 East (99.0 West)
GXY04RCB


GXY04RKH


GXY04RKV

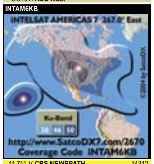

GALAXY 25
263.0 East (97.0 West)
GXY025KB


DIRECTV 5
250.2 East (109.8 West)
DTV005KB


ANIK F1R
252.7 East (107.3 West)
ANIF1KN


GXY03CKV


C-Band: GALAXY 26
267.0 East (93.0 West)
INTAM6CB


INTAM6KB


GALAXY 3C
265.0 East (95.0 West)
GXY03CCH


GXY03CCV


GXY03CKH


C-Band: BRASILSAT 4
268.0 East (92.0 West)
BRA04CB


GALAXY 11
269.0 East (91.0 West)
GXY011CB


GXY011KB


Coming Soon

NIMIQ 1
269.1 East (90.9 West)
NIM001KB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Freq GHz	Pol	Channel Name	Symbol rate

GALAXY 28
271.0 East (89.0 West)
GXY028KB

AMC 3
273.0 East (87.0 West)
AMC003CB

AMC003KB

AMC 2
275.0 East (85.0 West)
AMC002KB

C-Band: BRASILSAT B3
276.0 East (84.0 West)
BRA0B3CN

BRA0B3CR

AMC 9
277.0 East (83.0 West)
AMC003KB

NIMIQ 2
278.0 East (82.0 West)
NIM002KB

AMC 5
281.0 East (79.0 West)
AMC005KB

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

GALAXY 17
286.0 East (74.0 West)
SBS006VB

AMC 6
288.0 East (72.0 West)
AMC006CB

NAHUEL 1A
288.2 East (71.8 West)
NAH001KB

NAH001K3

BRA0B1CR

C-Band: BRASILSAT B2
295.0 East (65.0 West)
BRA0B2CN

ESTRELA DO SUL 1
297.0 East (63.0 West)
EST001KB

ECHOSTAR 3, RAINBOW 1
298.5 East (61.5 West)
ECH003KB

TV Digital | Radio Digital | TV Digital Crypt | Radio Digital Crypt | TV High Definition | TV High Definition Crypt | Data Channel | TV Analog | Radio Analog

Freq GHz	Pol	Channel Name	Symbol rate

AMAZONAS
299.0 East (61.0 West)

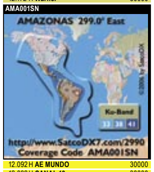
AMA001CB

AMA001EU

AMA001KB

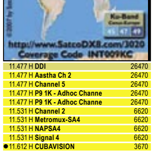
AMA001KS

AMA001SN



INTELSAT 9
302.0 East (58.0 West)

INT009KC



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

INT009CA

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

INT805HB

INTELSAT 707
307.0 East (53.0 West)

INT707CA

INT707EH

INT707KA

INT707WH

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

INT705CG

INT705EH

INT705WH

INTELSAT 1R
315.0 East (45.0 West)

INT01RAH

INT01REH

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

INT01REA

INT01RUV

INTELSAT 3R
317.0 East (43.0 West)

INT03REU

INT06BBR

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

INT03RAM

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

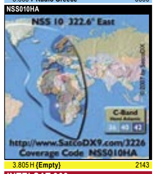
NSS806CH

NSS806CN

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

NSS010CN

NSS010HA



INTELSAT 903
325.5 East (34.5 West)

INT903KA

INT903NE

INT903ZE

INTELSAT 801
328.5 East (31.5 West)

INT801EH

INT801EU

INT801KW

SatcoDX Global Satellite Chart 06/2008

Freq GHz | Pol | Channel Name | Symbol rate

Europe

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

HIS01CKS

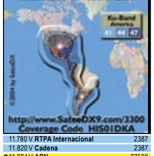
HIS01DKE

South America

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

HIS01CKA

HIS01DKA



INTELSAT 907
332.5 East (27.5 West)

INT907EH

INT907KE

INT907WH

INTELSAT 905
335.5 East (24.5 West)

INT905CG

INT905KE

INT905WH

NSS 7
338.0 East (22.0 West)

NSS007EM

C-Band: NSS 7
338.1 East (21.9 West)

NSS007CG

NSS007EH

NSS007WH

INTELSAT 901
342.0 East (18.0 West)

INT901KI

C-Band: INTELSAT 901
342.1 East (17.9 West)

Europe

TELSTAR 12
345.0 East (15.0 West)

TES012KE

America

TELSTAR 12
345.1 East (14.9 West)

TES012KA

Europe, South Africa

TELSTAR 12
345.2 East (14.8 West)

TES012ES

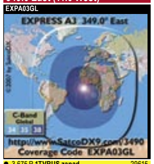
EXPRESS A4
346.0 East (14.0 West)

ATLANTIC BIRD 1
347.5 East (12.5 West)

EUTAB1EU

EXPRESS A3
349.0 East (11.0 West)

EXPA03GL

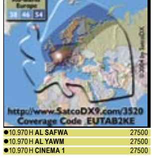


EXPA03KZ

Europe

ATLANTIC BIRD 2
352.0 East (8.0 West)

EUTAB2KE



ATLANTIC BIRD 2
352.0 East (8.0 West)

EUTAB2AB

ATLANTIC BIRD 2
352.0 East (8.0 West)

EUTAB2KE

EUTAB2KM

Middle East

NILESAT 101, 102, ATLANTIC BIRD 4
353.0 East (7.0 West)

EUTAB4MK

NIL101KB

TV Digital | Radio Digital | TV Digital Crypt | Radio Digital Crypt | TV High Definition | TV High Definition Crypt | Data Channel | TV Analog | Radio Analog

Freq GHz	Pol	Channel Name	Symbol rate
11.766	H	WRN Sawt Al-Alam	27500
11.766	H	Humax Data Broadcast	27500
11.766	H	HUMAX DOWNLOAD SV	27500
11.766	H	HUMAX OTA	27500
11.785	V	A1 Shop	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	EL Emarah	27500
11.785	V	Future USA	27500
11.785	V	Ghinwa	27500
11.785	V	MUSICPLUS	27500
11.785	V	NOJOOM 1	27500
11.785	V	Sahm TV	27500
11.785	V	Sama Dubai	27500
11.785	V	SHARQIYA	27500
11.785	V	Space Toon Arabic	27500
11.785	V	Strike	27500
11.785	V	Test 12	27500
11.785	V	Test 13	27500
11.785	V	Test 5	27500
11.785	V	ALSHARJAH RADIO	27500
11.785	V	EDTV Radio E	27500
11.785	V	EDTV Radio 1	27500
11.785	V	Test 10	27500
11.804	H	Animal Planet	27500
11.804	H	ART	27500
11.804	H	ASIA	27500
11.804	H	B4M	27500
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
11.804	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	AUDIO TV	27500
11.804	H	Poet	27500
11.804	H	Sayedaty TV	27500
11.804	H	SHARJAH TV	27500
11.804	H	Test 1	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
11.823	V	AL MAGHRIBIA	27500
11.823	V	Alhurra	27500
11.823	V	AlManar	27500
11.823	V	AlThuraya	27500
11.823	V	Bahrain	27500
11.823	V	Future News	27500
11.823	V	Future TV	27500
11.823	V	Kuwait	27500
11.823	V	Kuwait Sport & +	27500
11.823	V	LBCI	27500
11.823	V	Mehwer	27500
11.823	V	NBN	27500
11.823	V	Oman	27500
11.823	V	OTV	27500
11.823	V	PSC	27500
11.823	V	Star Academy	27500
11.823	V	Sudan	27500
11.823	V	Syria	27500
11.823	V	Tarab TV	27500
11.823	V	TeleLiban	27500
11.823	V	Test	27500
11.823	V	Test 8	27500
11.823	V	Thane Express	27500

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Coming Soon

Coming Soon

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Exhibition Preview

- **26 - 28 May 2008: MECOM**
  2nd Middle East International Telecommunications and Communications Exhibition
  Abu Dhabi National Exhibiton Center, UAE
  www.mecom.expo.com

- **27 - 29 May 2008: ANGA Cable**
  Trade Fair for Cable, Broadband & Satellite
  KoelnMesse, Cologne, Germany
  www.angacable.de

- **17 - 20 June 2008: CommunicAsia 2008**
  19th International Communications and Information Technology Exhibition & Conference
  Singapore Expo, Singapore
  www.communicasia.com

- **18 - 19 June 2008: CAI Trade Fair 2008**
  29th Annual CAI Trade Fair
  Warwickshire Show Ground, Stoneleigh Park, Coventry, UK
  www.cai.org.uk

- **12 - 16 September 2008: IBC 2008**
  The World of Content
  RAI Exhibiton Center, Amsterdam, Netherlands
  www.ibc.org

- **7 - 12 October 2008: CeBIT Bilişim Eurasia**
  ICT trade show
  TUYAP Fair and Congress Center, Istanbul, Turkey
  www.cebitbilisim.com

- **11 - 17 October 2008: Taitronics**
  Taipei International Electroncis Show
  TWTC Nangang Exhibition Hall, Taipei, Taiwan
  www.taitronics.org

- **29 - 31 October 2008: EEBC 2008**
  6th Eastern Europe Exhibition and Conference
  Kiev Expo Plaza, Kiev, Ukraine
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