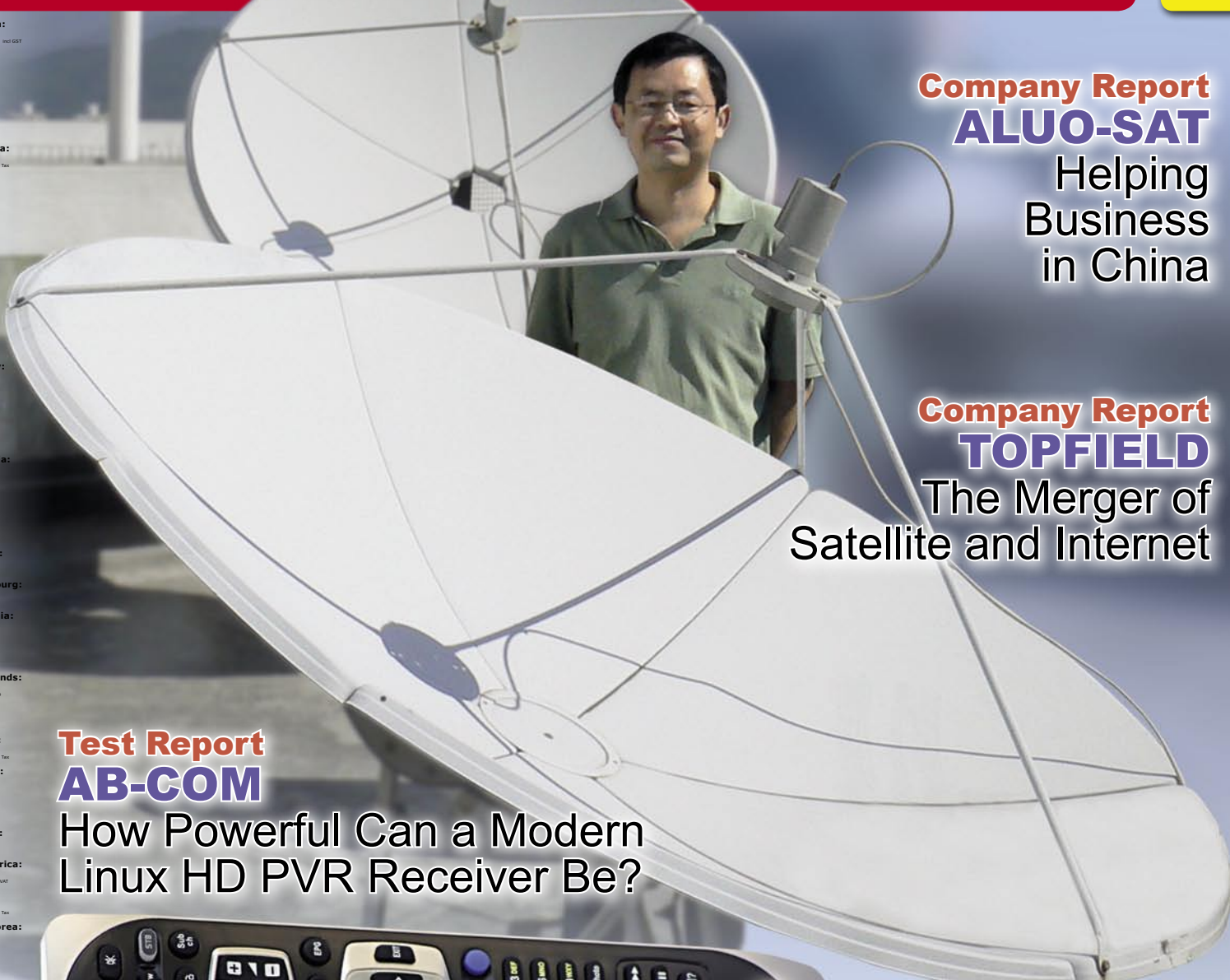


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A Production of TELE-satellite & Broadband Magazine
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Minimum System Requirements: Pentium III - 128 MB RAM - 16 bit ColorDepth - 30000 Screen Resolution - Win 95, 98, ME, 2000, NT4, XP



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High-Definition

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TM-6900 HD COMBO Super



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Smart Card reader • 1x CI slot • USB PVR ready - recording & playing using external HDD or USB • software upgrade via USB 2.0 • Timeshift function • PIP



3500CI HDMI PVR

Smart Card reader • 1x CI slot • HDMI output • VFD display • USB PVR ready - recording & playing using external HDD or USB • software upgrade via USB 2.0 • Timeshift function • PIP



3000 CR PVR

Smart Card reader • USB PVR ready - recording & playing using external HDD or USB • software upgrade via USB 2.0 • Timeshift function • PIP



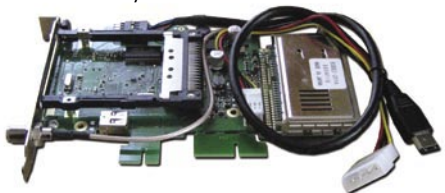
AB IPBOX 910HD

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Dear Readers



The selection of exceptional HDTV receivers is getting better and better all the time. In this issue we are once again introducing two exciting new units: a PVR receiver and a PC card.

Unfortunately, the number of HDTV channels is not increasing at the same rate. On the contrary, the current economic crisis has forced some providers to turn down the bitrates; this saves money with the satellite provider. The result is more and more TV images that are not much fun to look at. It's called "pixel sludge", when picture quality has reached its lowest level.

In my opinion, the exact opposite should be taking place. Instead of transmitting as many channels as possible with poor picture quality, providers should reduce the number of their channels so that what's left can be transmitted in the best possible picture quality!

It's incredible: SatcoDX statistics show that currently more than 18,000 TV channels exist worldwide. But in reality, a normal viewer watches not even 100 channels - in fact, this number is probably closer to 50 and perhaps even less.

Now the question becomes: what

criteria does a viewer use to choose his favorite channels and program them into his remote control?

It is doubtful that anyone has ever looked into whether viewers prioritize the channels they watch based on its content. I feel that channels in the best possible picture quality will automatically gain favor with viewers - with programming content playing only a small role here.

I believe that if programming providers would reduce the number of channels and invest in better picture quality, the result would be more viewers. And a nice little side effect: the receiver and monitor manufacturers would also be happier since the better picture quality would make viewers happier with their reception equipment.

Sometimes less is more!

Sincerely, Alexander Wiese

P.S.: My favorite radio station of the month: "Radio Fresh" on THOR 359 East (1 West) 12.169 GHz, H, 28000: a pop music station from Bulgaria with little talk and lots of music.

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HD2.0

MPEG-4 HD Satellite **PVR Ready** STB
with USB Host



Tuner Loop-Through Output(Full band) Compliant with Cable Ready Specification
(for Cable STB only)

Dolby Digital Down-Mix Output Support (*Optional)

Conax CAS 7 Embedded Chipset Pairing

Cable HD Ready Support (for Cable STB only)

MPEG-2 / MPEG-4 Part 10 AVC HD/H.264 compliant

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Various Video Aspect Ratio with 4:3, Letter Box, Full Screen and 16:9 Support

Various Video Display Format with PAL 576i/576p/720p/1080i 50 Support

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HD2.0 Slim



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Features available at launch

- Fully compliant with DVB-S2
- * High profile level 4.1 H.264/AVC streams @ 30fps
- * High or main profile level 3.1 H.264/AVC streams @ 60fps
- * HD MPEG2 4:2:0 streams @ 30fps
- * SD MPEG2 4:2:0 streams @ 60fps
- Supports DiSEqC 1.0, 1.1, 1.2 and USALS protocols for dish control.



PVR
Playing recorded programmes up to 64 times speed at maximum



GAME
Featuring a double-player game „Battle Tank“



UCC
Playing media contents of YouTube



DivX
Supporting video files of DivX 3.11, 4.1 and 5.x

Experience the future of digital receiver

- Stores up to 7,000 TV services and 3,000 radio services.
- Displays picture-in-picture with two HD services.
- Supports time-shift up to 5 hours at maximum.
- Records two services simultaneously while displaying another service.
- Able to record directly to both an external hard drive and a built-in hard drive (USB/eSATA).
- Playing recorded programmes at up to 64 times speed at maximum.
- Enables you to sort out any undesirable parts such as commercials during the programme.
- Supporting video files of DivX 3.11, 4.1 and 5.x.
- Displays JPEG image files.
- Featuring a double-player game "BATTLE TANK".
- Plays media contents of YouTube.
- Firmware updates available: over-the-air, with a USB memory stick, and from the Topfield's firmware server via Internet.

Features will be available by firmware updates

- Enables you to record the video from an external device such as a digital camera.
- Enables you to chat with other users via Internet.
- Enables you to enjoy the double-player game with other users via Internet.
- Enables you to transfer media files between the PVR and your computer with embedded web & FTP servers.
- Supports MediaHighway EPG
- Supports Sony tvtv EPG



TOPFIELD TF 5050CI HDMI



- Fully DVB-S compliant
- 2 Common Interface
- 5000 TV & radio services programmable
- 256 colors On-Screen Display (OSD)
- Service & Favorite service list editable
- Electronic Program Guide (EPG) supported
- Exciting games embedded
- Firmware upgrade by Over-The-Air
- HDMI output



Measuring Instruments

emitor MEGALOOK
MEGALOOK helps professional users to do exact adjustments and maintenance of satellite dishes and of cable TV and terrestrial networks.



- Input frequency: 2-900 MHz and 920-2150 MHz
- 4.5" B/W Monitor for PAL/NTSC
- Lots of memory positions for spectrum pictures
- RS232 for PC-connection
- Built in, rechargeable battery.
- Only 7.5kg complete with carrying case

ALSO AVAILABLE:

- Combolook
- Digital Satlook NIT
- Satlook Micro +
- Satlook Mark IV

DIGISAT PRO ACCU

Measuring instrument for dish-properties. Check two LNBs at the same time.

With DiSEqC tester.



ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB

The meter to use for easy Digital terrestrial installations. Very sensitive, easy to maximize weak and strong signals.

- Frequency range of 47-862 Mhz
- Shows the signal strength in dB μ V
- Shows the complete spectrum in one picture
- Presents one channel readout with high resolution or six channels simultaneously



Satlook Micro G2



- Measure on two LNB's at the same time
- Spectrum-analyzer with zoom function
- Super bright 3" LCD display
- Digital BER, QPSK and S/N-ratio
- Readout NIT -gives Satellite ID and TV/Radio-channel info
- DiSEqC according to level 1.0, 1.1 and 1.2

ALSO AVAILABLE:

Upgrade-KIT for Satlook Micro

You need a PC with internet-access in order to be able to upgrade Your old Micro with the new G2 version.

Satlook Micro G2 upgrade contains:

- CD with software
- New G2 carrying-case
- Owners manual

Satlook NIT Color



- DVB satellite-receiver 920-2150MHz
- Spectrum-analyzer with expanded spectrum
- 5" 16:9 LCD color display
- DVB-S (Free to Air) and Analog TV-picture
- Digital BER, QPSK and S/N-ratio
- DiSEqC according to level 1.0, 1.1 and 1.2
- KU- and C-band (normal/inverted video)

TOPFIELD

TF 6500T HDMI



DVB-T Receiver

- HDMI outputport, 576p, 720p, 1080i
- Fully DVB-T compliant
- 2000 service TV & Radio programmable

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

PCMCIA-Modules

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



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

Boca **NEW**

DSL 250 / DSL 250-T



Digital satellite / terrestrial Receiver

- Multi-functional timer
- Electronic Program Guide (EPG): Up to 7/16 days in advance (channel dependent)
- Timer function linked with EPG
- Power switch/ 2 watt standby mode
- Multi-picture function

DSL 350 1CI



Digital satellite Receiver

- 1 x common interface
- DiSEqC 1.2 control system
- Digital audio output (coaxial)
- 4500 programme storage locations

DSL 500 PVRready



Digital satellite Receiver PVR-ready

- 1 x common interface
- USB 2.0
- S/PDIF, HDMI connection
- Multi-picture function

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HDTV Receiver Selection

TOPFIELD

TF-7700 HD PVR



HDTV digital satellite Receiver with personal video recorder

- Fully DVB-S / DVB-S2 (H.264) HD compliant
- With 2 tuners
- Time shift supported
- 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

Boca

NEW

HD 200 CI PVR



HDTV digital satellite Receiver PVR-ready

- 2 x Common Interface
- alphanumeric display
- 1 x USB interface
- HDMI connection
- YuV component output

Motors

Aktuatoren/ Actuators

- Mini Actuators – 6", 8", 10", 12"
- Regular Actuators – 12", 18", 24"
- Heavy Actuators – 24", 36"



- SG 99 / SG 99 II – up to 1,00 m
- SG 107 – up to 1,10 m
- SG 2100 A DiSEqC 1.2 – up to 1,00 m
- Stab HH100 DiSEqC 1.2 – up to 1,00 m
- Stab HH120 DiSEqC 1.2 – up to 1,20 m

LNBS

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



- Single Universal
- Twin Universal
- Quattro Universal
- Quad Universal
- Octo LNB
- Monoblock Single Universal
- Monoblock Twin Universal
- Monoblock Quad
- C Band
- Circular and many more

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- Red Extended - 40mm, 0,3dB
- Black Premium - 40mm, 0,2dB
- Black Ultra - 40mm, 0,2dB
- Black Multiconnect - 23mm, 0,2dB

All available as:

- Single Universal
- Twin Universal
- Quattro Universal
- Quad Universal



Full LNB range INVERTO available from stock

Multiswitches / DiSEqC - Switches

- SPAUN
- DTRON
- JAEGER
- JOHANSSON
- MAXIMUM
- BEST



From 2 in/1 out up to 17 in/36 out

sa SPAUN Full Range

Parts

Multifeederholder for 2, 3, or 4 LNB



Wallmounts

- 15 cm distance – Aluminium
- 25 cm distance – Aluminium
- 35 cm distance – Aluminium
- 45 cm distance – Aluminium
- 55 cm distance – Aluminium
- 35 cm distance – Steel
- 45 cm distance – Steel
- 50 cm distance – Steel
- 70 cm distance – Steel



- F-Connector – 7 mm
- F-Connector – 7 mm waterresistant
- F-Connector – 4 mm and more

Remotesystems

- AV-Linker – Videosender for remote control
- Remote Blaster
- Zapline 2 and more



Koaxialcable

- High Quality coax cable
- Minicable Coax
- Mini-Twincable Coax
- > 100 dB / > 110 dB



invacom QDH 031



AVAILABLE AS:

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- TWH-031
- QTH-031
- QDH-031
- SNF-031
- TWF-031
- QTF-031
- QDF-031

Full LNB range INVACOM available from stock

MICROELECTRONICS TECHNOLOGY INC.

High-Line-Series



AVAILABLE AS:

- MTI AP 8 T2NRC Single
- MTI AP 82 XT2N Twin
- MTI AK54 XT2N Quad

Full LNB range MTI available from stock

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digital-labs

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Unicable-Standard one cable solution. Cascadable multiswitch for up to 16 users.



Dishes

CIBERTINI TRIAX Emme esse

- 40 cm – White
- 70 cm – White, Black, Red
- 90 cm – White, Black, Red
- 100 cm – White, Black, Red
- 120 cm – White
- 130 cm – White, Black
- 160 cm – White

Big Dishes directly from our warehouse!

- SDI 1,50 m
- SDI 1,80 m
- Irte 2,00 m
- Irte 2,40 m



Flat-Dishes

NEW

SELF SAT H10D / H10D2

- Works on all Ku-band Satellites
- Cross polarization improved
- Ideal for High Definition (HD) reception

MAXIMUM Flat-1

- Receives alle programs broadcasted by european satellites
- 2 LNB (twin) output for 2 set-top-boxes plugged
- 60/70 cm equivalency



Multifocus Dish

MAXIMUM

E-85 Multifocus 48° Dish



- Ellipse shaped dish
- LNB holder for 5 LNBs, 48°
- Turnable mounting bracket for optimized reception
- Steel with polyester coating

Balcony mounting parts

- 25 cm distance – Steel
- 50 cm distance – Steel



120 cm length – Ø 6 cm

ALSO AVAILABLE:

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

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The Wide World of Extra Features: PC Software for Topfield Receivers

by Thomas Haring

Without doubt South Korean company Topfield is one of the most innovative manufacturers of satellite receivers in the world. Owners of Topfield products not only get a receiver, but a masterpiece of state-of-the-art technology with a whole range of extra features that extend far into the PC realm. We want to take you on a journey to the wide world of Topfield bonus features:

Creating a DVD

If you already own a PVR receiver you certainly had moments when you wished it were possible to save a recorded event on DVD for archiving in a quick and easy way. In actual fact, Topfield receivers save the transport stream they receive via satellite, cable or digital terrestrial TV without any changes or reformatting.

Depending on the actual receiver model in Topfield's comprehensive product range the individual stages you have to go through for creating a DVD differ slightly.

What is the same for all models is step 1: transferring the recorded event from the receiver's internal hard disk to the PC. Topfield provides three procedures to accomplish that task:

- data transfer between receiver and PC using a USB 2.0 connection
- data transfer between receiver and PC using a LAN or WLAN connection
- direct access from the PC to contents stored by the receiver on a hard disk

Direct access from the PC is supported for all receiver types that do not come with a built-in hard disk, such as the TF7700HSCI. Thanks to USB 2.0 these boxes are able to record events on an external hard disk and whenever you need to transfer files all you are required to do is unplug the external hard disk from the receiver and connect it to the PC. MS Windows Explorer will recognise

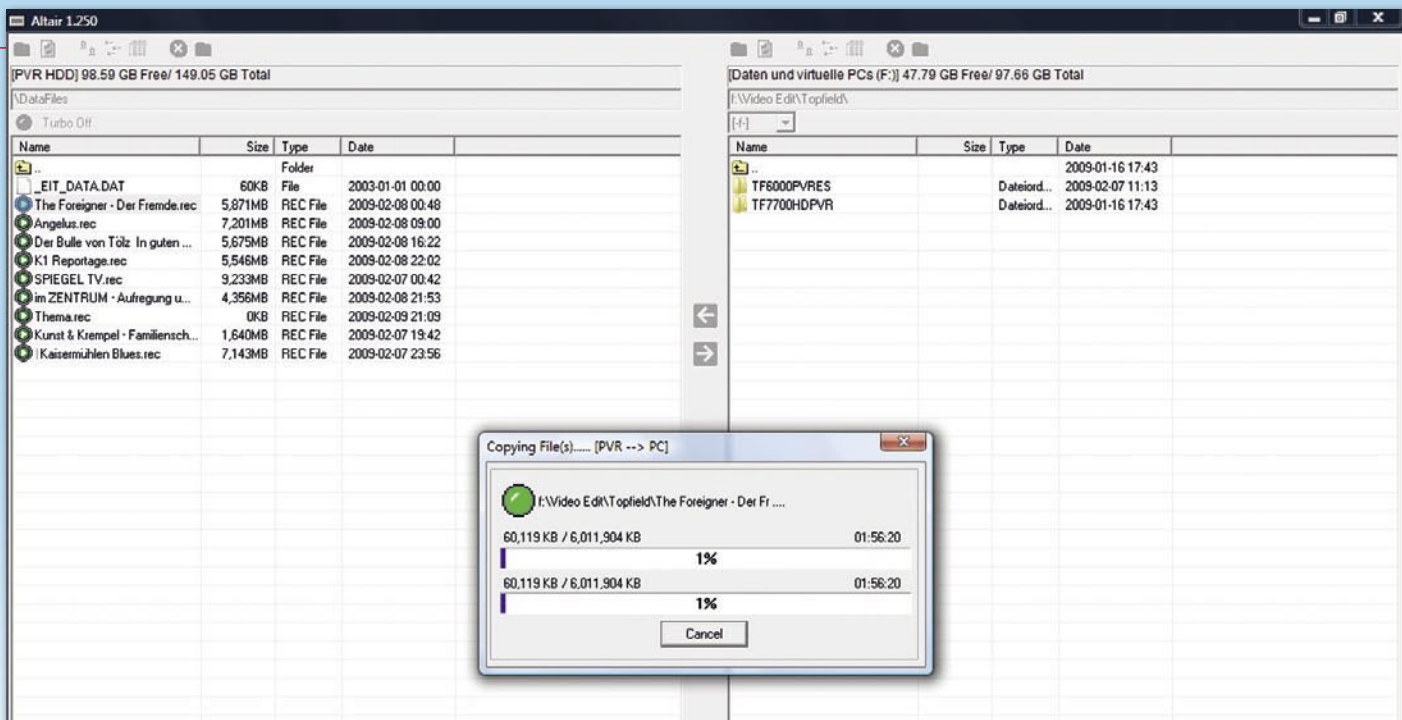
it as a removable disk drive after a few moments and then you're all set for copying files to the local disk.

Data access via LAN or WLAN has also turned out to be a very convenient solution and that is why Topfield has equipped a number of its premium products with LAN or WLAN connectivity. The current top-of-the-range receivers TF7700HDPVR or TF6000PVR, for example, offer this feature.

Luckily, Topfield has not only looked at the hardware aspects but also made sure the software includes functions such as DHCP so that a network connection between the receiver and the PC can easily be set up. Cat-5 cables are needed for a physical connection, in cases where the two devices are linked directly you have to go for a crossover cable, while a straight-through cable must be used if a router or Internet gateway provides access to the network.

Without exception, Topfield receivers with network connectivity come with both a web and an FTP server. This allows





users to establish a connection from the PC to the receiver from any conventional Internet browser or FTP tool and to initiate data transfers using one of these two methods. We should also mention at this point that the integrated web server has many more features in store, such as creating timer entries for recordings over

the network, editing or deleting existing timer entries or deleting or transferring existing recordings to the PC. Of course, status information about the receiver can also be retrieved at any time.

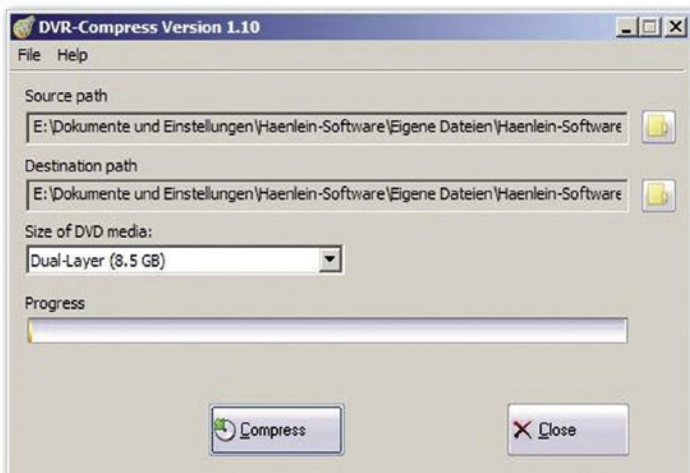
All this is not only available in the local network, but also via the Internet, if required. This means you are able to check right from your hotel room whether your Topfield receiver at home has recorded all events you had set in the timer. Or if you find out a blockbuster movie is on TV that night you can easily create a timer entry so that the receiver will record it even while you are away.

Transferring a recording from the receiver to the PC

To make sure only you or persons authorised by you are able to do this you can of course restrict access by way of setting a user name and password.

The third option of transferring recordings from the receiver to the PC is using the USB 2.0 interface. Currently this is also the fastest and easiest option, even though it is restricted to a local set up and does not support any additional features such as timer management.

A standard USB 2.0 cable can be used to connect the receiver to the PC, but please make sure the length of the cable does not exceed three metres unless



DVR Compress for reducing the file size of recordings that are too large



TOPFIELD®



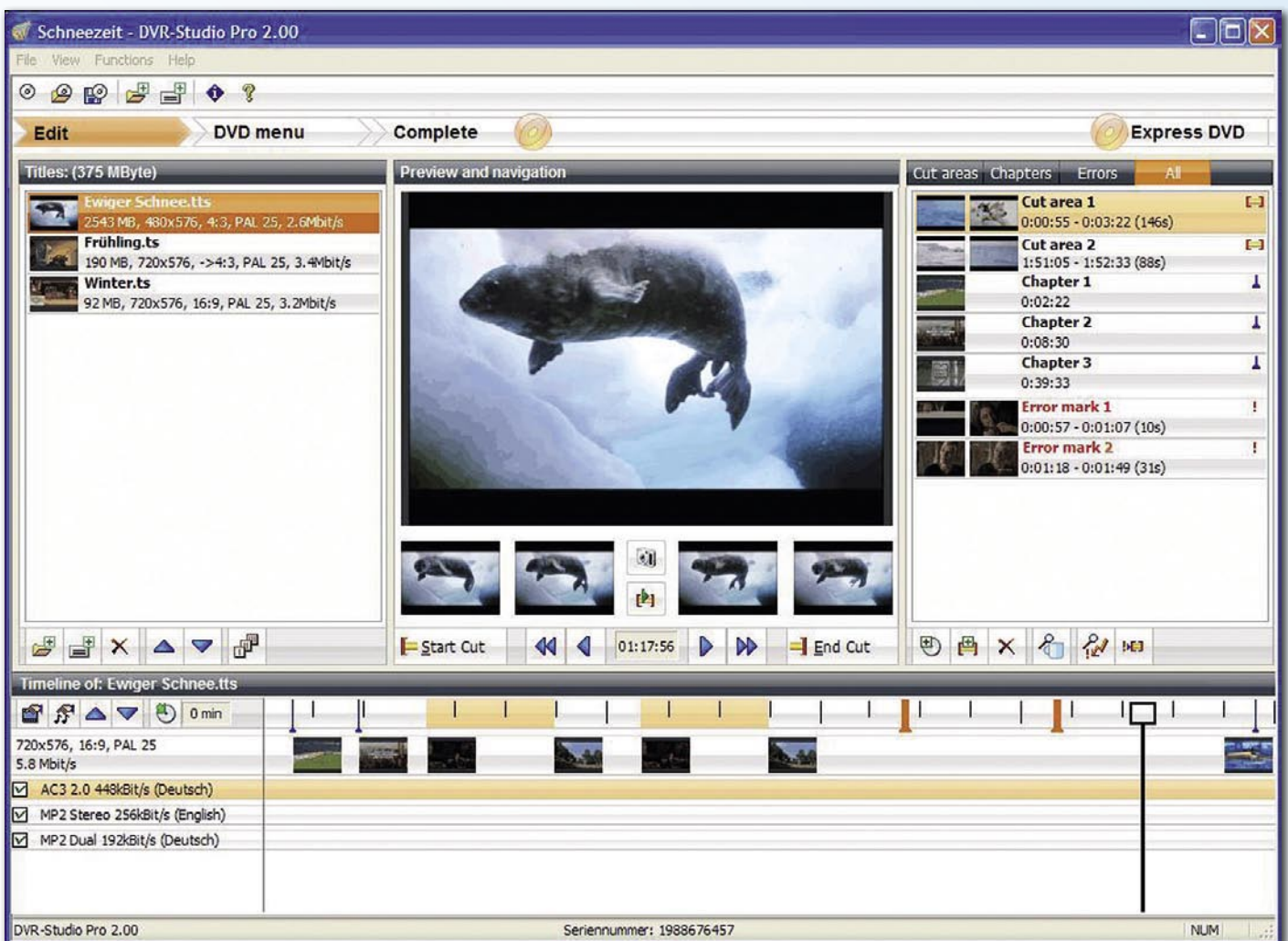
DVR Studio HD creates DVDs or Blu-ray discs from HD material

the signal is amplified. As soon as the connection is established for the first time Windows will ask for corresponding drivers to allow direct communication between the two devices.

Topfield provides these drivers for all 32-bit Windows operating systems including Vista for download from its website. Mac users currently have to use a Windows emulation on their computers

to make use of this connection set-up as there is no native Mac driver available at the moment, unfortunately.

Once all required drivers are installed



DVR Studio Pro 2 takes care of every step from de-multiplexing to burning

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FS-9000HD

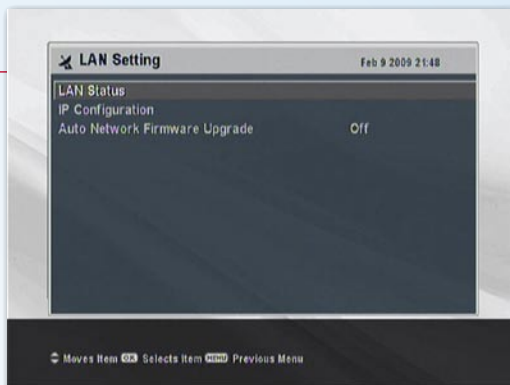
MPEG4 - HD,SD / H.264 / DVB-S2 Twin Tuner
Micro SD slot for external memory
Supporting DivX file play back



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FORTIS



Network menu of the TF6000PVRE



Network status displaying assigned IP addresses



DHCP for automatic retrieval for required settings



Manual IP assignment



Software update via satellite

and ready the Windows device manager pops up and can be used for direct access to the receiver's internal hard disk.

Contrary to a network connection, the USB mode makes use of a specific software tool called Altair for data transfer. Altair is available free of charge for download from Topfield's website www.i-topfield.com.

Alistair works similar to an FTP client and features two windows, with one window showing the contents of the receiver's hard disk and the second window a freely selectable directory on the PC. With simple drag & drop you can now move recordings from one hard disk to the other.

As this transfer works both ways it is also perfectly possible to move MP3s or TAP applications from the PC to the receiver as well. Alistair can be used in two different modes: The slower standard mode is recommended whenever the receiver needs to remain fully functional during transfers, e.g. for watching TV or recording an event.

The turbo mode dramatically increases the transfer rate, but blocks the receiver for any user-initiated operations. Pre-programmed recordings will also not start in turbo mode.

If you're still looking for increasing the transfer rate even further you may want to download a so-called download accelerator TAP (http://de.geocities.com/deadbeef55/download/UsbAcceleratorV1_0.zip) from the Internet.

TAPs are small software tools created by resourceful amateur developers within the framework of Topfield-specified guidelines. Please have a look at the corresponding report in TELE-satellite 10-11/2008 for more information about TAPs.

Thanks to loading the accelerator tap and exchanging a DLL file in the Altair directory the transfer rate goes up even further because checksum verification (which is not necessary anyway) is deactivated.

The following comparison clearly shows how the transfer rate changes:

- turbo mode without accelerator TAP: approx. 2.2 MB/s.
- turbo mode with accelerator TAP: approx. 3.37 MB/s.

This means the TAP can boost transfer rates by about 50 percent!

Editing recordings on the PC

So now that all desired recordings have made it to the PC the next step is converting them into a DVD-compatible format. After all, the raw data transmitted from the satellite is of no use for DVD burning applications.

Again, a number of different ways lead to the same goal, with some solutions being available free of charge, others costing real money. We would like to draw your attention to the DVR Studio software offered by Haenlein (www.haenlein-software.de). DVR Studio currently comes in three distinct versions:

- DVR Studio
- DVR Studio Pro 2
- DVR Studio HD

DVR Studio is the least expensive of the three and at the same time at the heart of the two other versions as well. DVR Studio is capable of processing recorded events from 295 receivers and 122 PC cards supplied by a total of 119 different manufacturers.

The application is a combination of demultiplexer to split up the raw satellite data into video and audio tracks, and editor to cut out unwanted commercial breaks or entire sequences. DVR Studio starts out with dividing the recorded transport stream into individual video and audio sections and moves these sections together again with perfect precision to create a DVD-recordable file. Even several different audio tracks can be recorded. The final file created by the software can then be burnt onto DVD by any standard burning software.

If you choose to go for the slightly more expensive DVR Studio Pro 2 version you don't even need separate burning software as the Pro version takes care of every step right down to creating DVD menus and burning the file onto DVD.

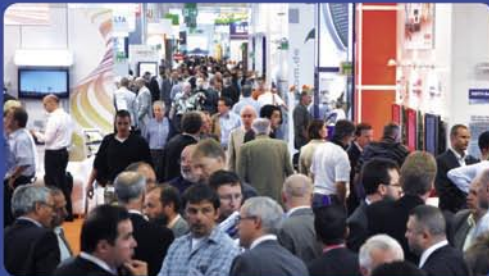
As the name implies, DVR Studio HD has all the features of the Pro version with added HD capability. It is the perfect match for the Topfield TF7700HDPVR as it can be used to also burn HD content on DVD or Blu-ray disc.

We should also mention the DVR Compress software at this stage. It com-



ANGA Cable

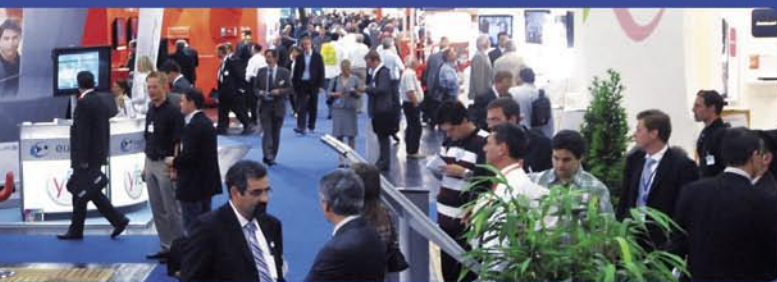
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info@angacable.de
www.angacable.com



Software update via PC using a USB or serial connection

presses recordings in way that allows you to use a single disc when the sheer file size otherwise would not fit into a single DVD.

Editing the channel list

Thanks to flawless implementation of DiSEqC 1.2 and 1.3 (USALS) Topfield receivers are not only able to receive

signals of a single satellite, but virtually thousands of channels from several orbital positions.

This implies that the channel memory will sooner or later be at capacity and also that it simply isn't fun looking for a specific channel in a list that ultimately can hold 5000 entries.

A range of easy-to-use editing, sorting and changing options are available right through the receiver's on-screen menu, but with the huge number of channels at hand most users run out of patience pretty soon.

Luckily, there is an alternative. It's called Vega and is a PC tool that is compatible with all Topfield receivers and which makes organising the channel, favourites, satellite and transponder lists so much easier because you can do it all on the PC. The application is available for download from www.i-topfield.com.

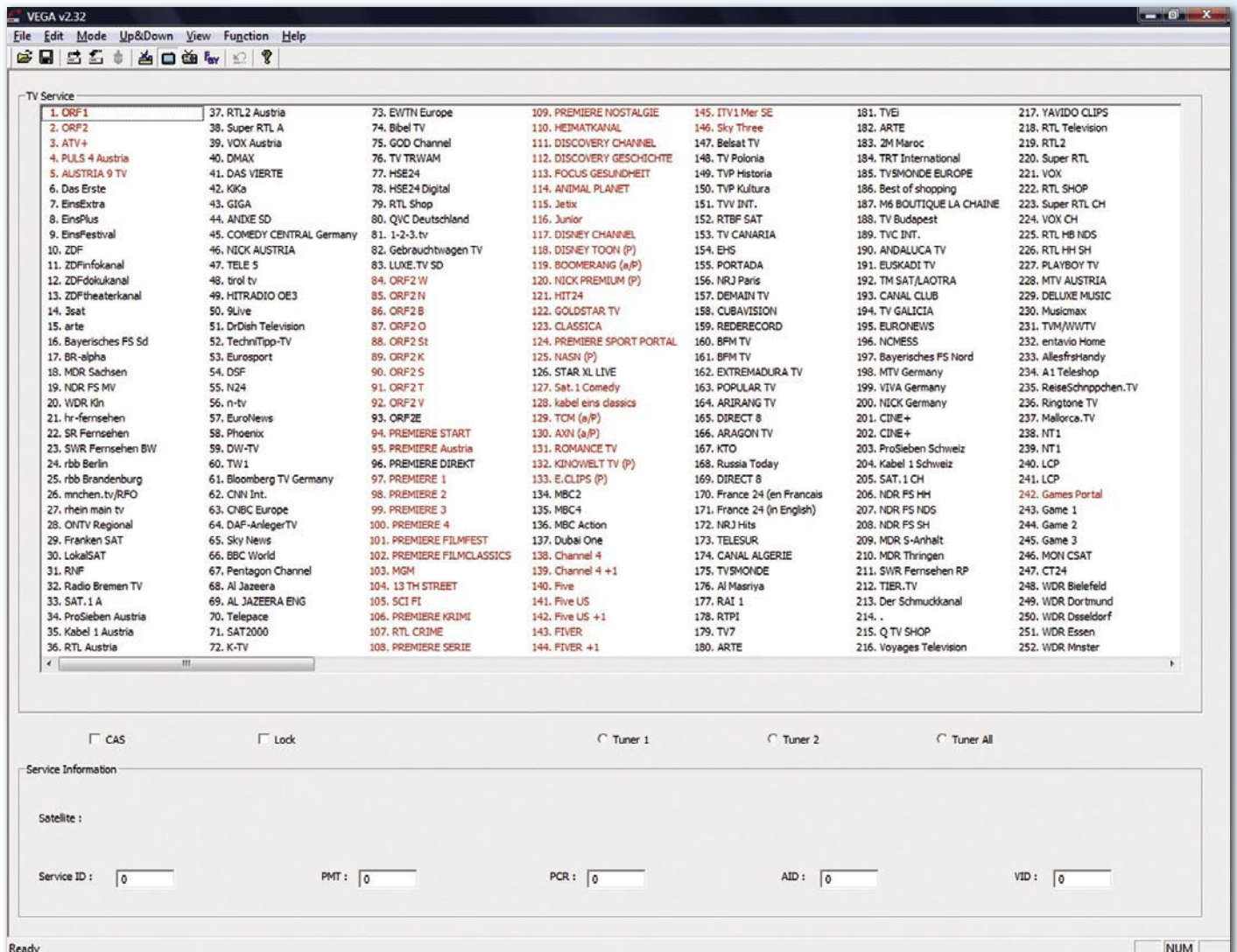
In a first step you need to make sure

all data are transferred to the PC, which takes place either via a USB 2.0 connection or a serial connection. While a standard USB 2.0 cable is required for the USB set-up, you need a 9-pin null modem cable to establish a working serial connection.

For security reasons Topfield receivers allow reading and writing the channel list only before the operating system has loaded, and this means you need to activate the download mode in the Vega application first and then reboot the receiver for data transfer to be initiated.

As soon as all data is available on the PC you can go about editing, sorting, deleting, locking or renaming entries in the channel, favourites, satellite or transponder lists. You will soon come to appreciate the fact that several entries can be moved, deleted or PIN-locked at once.

At the same time, DiSEqC settings or transponder details can be adjusted with



Vega channel list editor



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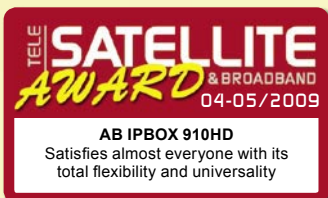
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AB IPBox 910HD

How powerful can a modern Linux HD PVR receiver be?



The progress in receiver manufacturing is simply amazing! Could we have thought several years ago, when we endlessly struggled with

analogue receivers, that a similarly looking box would not just only give us a fantastically coloured and unbelievably clear picture, but also would allow playing music and video files, sending e-mails, playing games? The border between computers and receivers is disappearing, giving birth to family-friendly devices with a huge potential for more advanced users.

And ABCom, famous for its powerful Linux-based receivers is certainly helping to make this happen. They are decently doing their homework, constantly upgrading hardware and software. It's especially pleasant to see that several drawbacks of their previous model are already fixed. Today we had a chance to test AB IPBox 910HD, a close twin to 900HD, that we've examined a couple of issues ago (TELE-satellite 08-09/2008).

The newer model kept all advantages of the previous one. Both high and standard definition channel reception, both in DVB-S and DVB-S2, both in MPEG-2 and MPEG-4. You would rather prefer to help your grandma continue

ab-com



watching soap operas on terrestrial tv, when the analogue broadcasts were shut off? 910HD would help you there too. Replacing DVB-S tuner with DVB-T is a matter of minutes. Same is true for a DVB-C cable tuner.

From a distance you would hardly notice any visible difference between 900HD and 910HD. But the little things is something that counts here. Front panel kept the elegance of 900HD, that would make it fit even for exclusive interiors. Besides the 2 CI slots, which are located behind a magnet-held flap, a bright and easy-to-read VFX-display is to be found here, together with 8 buttons, which let you operate almost all basic functions of the receiver.

Rear panel is also as good as before, but something also went further here. If the DVB-S tuner is installed, as in our test model, in the left corner you would find an LNB-input with a corresponding Loop-Through output. All the computer and network stuff is dealt via USB-port, RS-232 and

Ethernet connectors. HDMI, S/PDIF and Y/Pb/Pr outputs are responsible for the crystal-clear picture and sound. One Scart and three RCA connectors are there rather for backwards compatibility, since they would hardly let you appreciate all the benefits of HDTV. E-SATA port and a power supply output for an external harddisk are there, although 910HD lets you install a SATA HDD also inside the box! It will be started when the receiver is started, no more hassle with endless cables and connectors. But now you have a choice, if you want your recordings on the go, an external HDD can still be used.

Next to the main power switch there is a ventilator fan that protects the powerful electronics of the receiver from overheating. A really smart add-on! However, most delicate users might find it a bit loud. However, it's no problem going to a computer store and selecting a more quiet one.

Remote control is an exact copy of the one shipped with

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Available online starting from 27 March 2009

Initial Setup

It might seem that official firmware from ABCom didn't change much, at least in the first steps. The same wizard guides you first through the Language Selection screen (OSD can be displayed in English, Russian, French, Italian, Dutch, German, Danish, Czech, Slovakian, Hungarian, Norwegian, Polish, Portuguese, Spanish, Swedish, Greek, Turkish, Korean, Croatian, Bosnian, Serbian, Bulgarian, Romanian and Finnish, preferred languages can be also selected for audio, subtitles and teletext), then to Local Time Settings screen. Again, a wide range of choices - either to set the time manually or to let the

a previous model. Actually, this even caused some confusion at first here in our test lab since we still used the 900HD. Operating signals are the same, however, the remote of 900HD/910HD can also be programmed for controlling previous IPBoxes, should you have one. It's also easy to program it to operate your TV set as well, there are hundreds of models to choose from on the last pages of the user's manual. As for its design, we don't regret the words said in the test report of 900HD, it's loaded with buttons, but they are so logically organized, that you get used to it very fast. And with a special button for many of receiver's functions, it's easy not to get lost.





Satellite Configuration |



Setting USALS positioner |

receiver get it automatically from the stream; time mode and daylight saving time options are also there.

On the next step you would already need your antenna connected. In case of a satellite tuner, first press the red button to add step-by-step all satellites you're planning to watch. Each can be programmed with own freely-selectable LOFs on the same screen. All DiSEqC versions are supported (1.0, 1.1, 1.2 and 1.3), which can make AB IPBox 910HD the heart of your multi-satellite system. Once all needed satellites are found, press "Exit" to return to the wizard screen.

Press "yellow" button for the next step that takes you right to channel searching. The screen that appears has two tabs, Automatic and Manual. Names pretty much explain their function. The first one simply goes for the

pre-programmed or found-NIT frequencies for channels, while the latter one allows you to enter all the parameters manually. Of course, Modulation and special FECs for the DVB-S2 are not forgotten.

Regular automatic or manual channel searching is not something that Schumacher would enjoy, but still fast enough for our regular viewer. It took us 9 minutes to scan a satellite position with 105 transponders. For the impatient ones who simply can't wait to have the first picture on the screen there is a "Quick load" function, which simply loads the pre-stored channel list. So if you would rather get a more actual channel list, it pays to be patient.

All further options can be logically found in the main menu, which also leaves a *deja vu* feeling at first. But we know that the programmers

were busy, so there should be something new! Ok, here we can select all the screen parameters, like aspect ratio, TV system, Dolby, Scart, HDMI and S/PDIF output formats. Here's a submenu where we can connect our 910HD to the local network and/or Internet, check parameters of the harddisks or make a factory reset. Aha! There's also a DivX video player now, but the entire multimedia part deserves some special words, so stay tuned!

Where were we? Ah, it's a satellite receiver after all. So before we go crazy experimenting with Linux, Telnet and FTP, let's grab the remote and have a look at its basic functions, receiving digital channels that is.

Everyday use

Channel list looks identical to the one in 900HD, all the useful goodies are there. Various sorting options, you can have the channels organized alphabetically, FTA/encrypted, by satellite or provider. Pressing yellow button activates the "jump" function, which is helpful in case you have thousands of channels sorted from your multi-satellite system, for example, it goes to the next letter, if you've selected the alphabet sorting. However, to organize things even better, don't forget about the FAV button that lets you quickly access the favorite channels. There are 5 pre-defined favorite groups - Sports, Drama, News, Movie and Music. Pressing the "i" button allows to create as many new ones as you wish, or delete, rename, move, edit or lock existing ones.

Pressing "i" in the main channel list gives access to similar editing options, including our 900HD favorite - editing the default audio volume for each channel. An elegant solution

to an old problem - how many times while zapping around the next appearing channel rocked your room with unexpectedly loud sound? Now it's enough to simply adjust it's volume in the channel list and voila! Nobody will complain anymore that your TV set is way too loud!

Talking about zapping, 910HD will not make the zapping maniacs happy, but 1 second between channels is perfectly well for the regular viewers. It can be faster within the same transponder, or a bit more between DVB-S and DVB-S2, between SDTV and HDTV. But at least you can be sure that almost no channel will get out of your sight! Even such hardcore SCPC broadcasts as Calabria Channel on HELLAS SAT 2, with SR of just 1425! A special bitrate plug-in would help you check if the picture and sound of the channel is really as good as the broadcaster promised.

PIP is also as good as it used to be. Two channels from the same transponder can be displayed in identically-sized windows, the second one can be shown in a smaller window behind the main one, channels then can be toggled between. Since the remote control is identical to 900HD, it's the same second top row of buttons on it.

Nice and user-friendly two-mode EPG is also here in all its glory. One click of EPG button lists upcoming events for the selected channel, press it the second time and you have a real program guide, with all neighbouring channels showing their EPG information, as long as it's available from the broadcaster. Just one single click of the button with a red circle on the remote, and your favorite show is marked for recording.



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This is where the wonderful PVR comes into sight. 910HD doesn't just let you connect an external HDD to USB or E-SATA port, it already has one inside. Our test model was shipped with a 500 GB HDD, which is quite large to handle not just the PVR recording, but also DivX movies and MP3 music storage. But while we focus on the PVR, it's worth noticing the "Envelope" button, which lets you access all the records in a couple of clicks, and the wonderful Timeshift option. Activate it in "Advanced Setup" - "HDD setup" menu, and you can feel the power of magic - pause the live broadcast in any moment, take care of any urgent problems that all of a sudden disturb you from your favorite movie, and then resume exactly from the same place you left it! It's also easy to "rewind" the broadcast to a special moment that you want to see again. And you don't need to be a rocket scientist to get used to all this, everything is a matter of 1-2 clicks!

Multimedia options

Since the firmware of 900HD/910HD is being constantly developed, both boxes now offer possibility to play both audio and video files, as well as display photos, stored either on an external HDD or USB memory stick, or on the internal HDD in 910HD, where such files can be uploaded over FTP (take the receiver's IP from "Advanced Setup" - "IP setup" menu, use "root" as a UserID, and "ipbox" as password) to "media" directory.

"Multimedia" submenu also has some PVR functions included, these are "Recorded files" for the stored PVR recordings, and "Recording Schedule" for the old-fashioned recording timer programming. Remaining three options are solely for the above mentioned "outside" files. Photos can be viewed either individually, by double-clicking their names with "OK" button,

or as a slide show, which can be programmed by pressing the yellow button. MP3 player greets the user with a bit more advanced screen, showing the regular music player operating buttons, as well as the currently played track time and its bitrate.

And while no bad words

can be said about these two, Video/DivX player still needs some work to be done. In a test movie, which played perfectly on our PC, 910HD didn't have the audio and video synchronized. Video was 1-2 seconds behind. Nevertheless, it works, and the synchronization issue will be addressed in upcoming updates.



Updating the firmware

For such powerful and truly universal receiver it's important to keep the internal software up-to-date, because it's enormous potential is still not fully uncovered. ABCom attempted to simplify it, by adding the possibility to down-

load and install the firmware right from the box, without any external devices needed. But, unfortunately, something went seriously wrong. The 910HD we got had a firmware version 8340, while according the manufacturers website, the most actual one is 8360. The most obvious way was

to go to "Advanced Setup" - "Network Update" menu. And what have we here? Two totally outdated firmware releases! This issue definitely needs to be taken care of by the manufacturer. We had to select another way to update the receiver's firmware by using the USB memory stick.

From the hardware point of view AB IPBox 910HD hardly leaves anything to be desired. All needed connectors, possibility to switch tuners as plug-and-play, ability to receive DVB-S and DVB-S2, MPEG-2 and MPEG-4, HDTV and SDTV. You can even copy all your favorite films, music files and photos to its hard disk. Play games or check the weather forecast. Easily install hundreds of available software addons. Or turn the receiver into something totally new by installing one of the alternative firmwares.

ABCom keeps doing its homework, and while the majority of basic things are perfectly working in 910HD, it's a good, future-proof choice!



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Expert Opinion

+

A receiver that would satisfy almost everyone, since it can change completely with different firmware types.

In case the official one is installed, it's really easy to control, even children wouldn't have problems finding a favorite cartoon channel.

An alternative firmware can even make a hardcore DXer happy.

Total flexibility and universality - DVB-S, DVB-S2, MPEG-2, MPEG-4, HDTV and SDTV are perfectly received. Easy replacement of a tuner can make it a cable or terrestrial box.

Possibility to install an internal HDD leaves the mess with external wires behind, but an external HDD can still be connected additionally.

A true multimedia box, combining satellite/cable/terrestrial digital TV with listening to music, watching DivX music and browsing photos.



Nickolas Ovsyadovskiy
TELE-satellite Test Center Hungary

-

Channel search and switching could be a bit faster.

DivX playback should be checked that audio and video are perfectly synchronized.

Cooling fan on the rear panel could have been replaced with a more quiet model.



Channel List



PIP mode with sub-channel selection

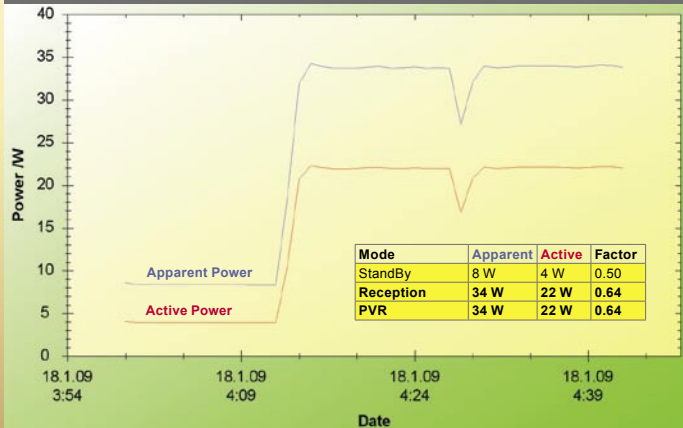
TECHNIC DATA

Manufacturer	AB-COM s.r.o., Gogolova 1, 955 01 Topolcany, Slovakia
Tel	+421-38-5362611
Fax	+421-38-5322027
Internet	www.abipbox.com
Email	info@abcom.sk
Model	IPBox 910HD
Function	Digital Linux-based HDTV PVR receiver for DVB-S, DVB-S2, DVB-C and DVB-T reception
Channel Memory	10000
Symbol Rate	1-45 Ms/sec.
SCPC	yes
DiSEqC	1.0/1.1/1.2/1.3
USALS	yes
Scart	1
HDMI	yes
A/V output	3 x RCA
YUV output	3 x RCA
UHF output	no
S-Video output	no
0/12 volt connection	no
Dig. Audio connection	yes
Ethernet port	yes
USB 2.0 port	yes
RS-232 interface	yes
EPG	yes
C/Ku band compatible	yes
Power Supply	110-245 VAC, 50/60 Hz
Dimension	300x60x240 mm



SCPC reception with SR of just 1425

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Sea Tel's logo has changed with the addition of Cobham's name, but Sea Tel's superior products and service remain the same. Along with the new logo and the recently released 2406 60cm antenna, Sea Tel is pleased to announce a smaller, lighter 60 cm Tx/Rx antenna system, the USAT 24, an Ultra Small Aperture Terminal. Plus the new ST14 TV-at-Sea antenna features an advanced pedestal assembly, made of durable nylon polyamide injection molding used on aircraft antennas. Tests reveal 1.3 dB more signal than competitors.

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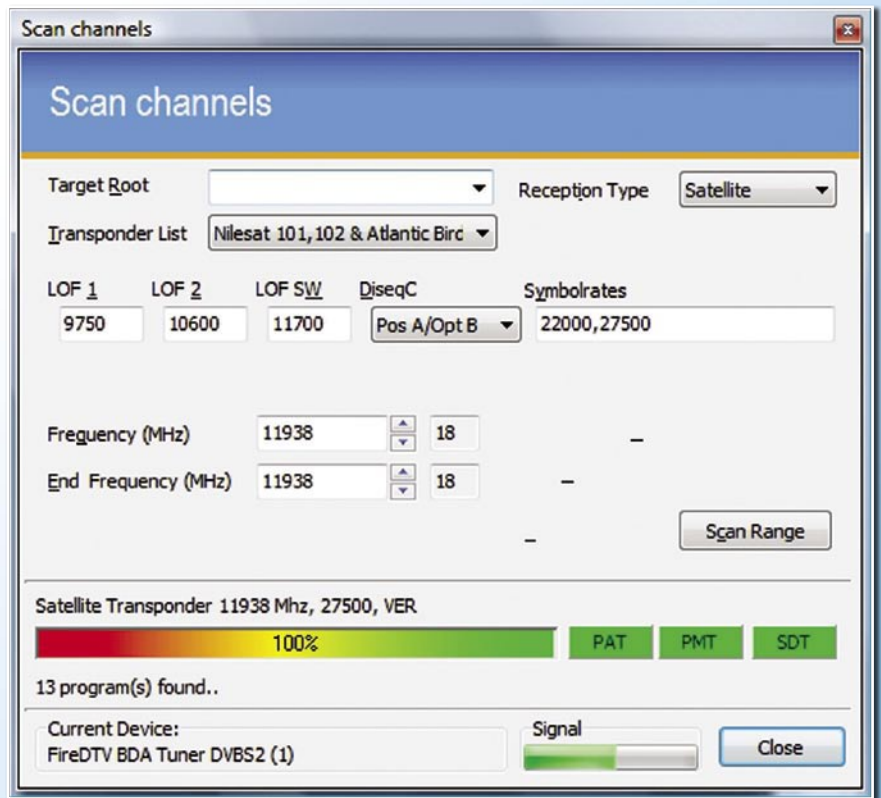


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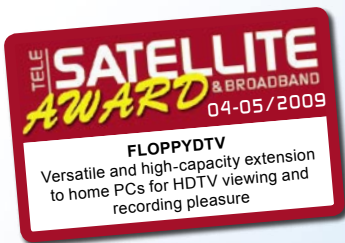
FloppyDTV Perfect DVB-S/2 Solution for the PC

PC in a fast and hassle-free way? And if you consider that most PCs are connected to high-resolution LCD monitors while the TV sets in living rooms still have a long way to go before being 100% flat screen it comes as no surprise that DVBSshop decided to add the FloppyDTV card/

Most up-to-date HDTV satellite receivers come with Ethernet or USB 2.0 interfaces that allow transferring recorded events to a PC for post-editing and storing recordings on a portable storage medium (DVD etc.). However, most of these receivers regard satellite reception as their prime business and thus do not put much effort into making interfaces very fast.



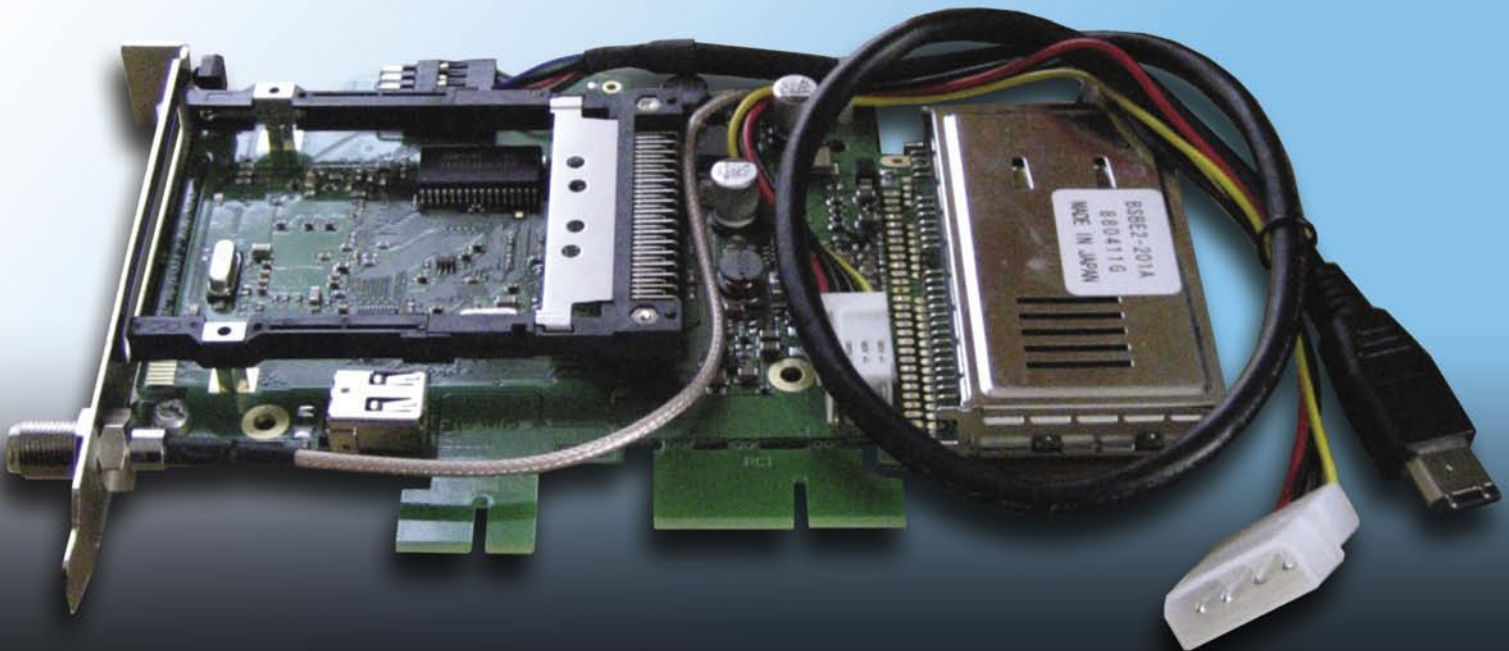
Transponder scan on NILESAT 7° West |



Have you ever looked at the size a movie-length HDTV recording requires on the integrated hard disk of a satellite receiver? You might

be surprised to find out that 10 GB is about the norm. So wouldn't it be convenient if recorded TV or radio events could be transferred to the

FireDTV box to its product range. While all electronic components are fixed onto a single board in both products, data transfer as such



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satellite
Electronic Systems



does not take place via PCI or PCI-e but via FireWire. With this, end users have the added benefit of being able to choose either an internal or external model of this product. The external version is called FireDTV and comes as a small box with all necessary ports being located on one side. The internal version bears the name FloppyDTV and can simply be plugged into an available PCI or PCI-e slot.

What unites both models is their FireWire interface for data transfer. Some readers may ask 'Why FireWire?' at this point. Well, contrary to USB 2.0, FireWire can maintain a specified minimum transfer rate, which is a particular bonus when it comes to high-resolution video. While in theory, USB 2.0 can reach slightly higher transfer rates, most real-world scenarios prove that FireWire has the leading edge.

Apart from that, most modern PC systems these days come with a FireWire interface anyway, and even if you should find out your particular PC doesn't, you can always add a FireWire interface and it won't cost you a fortune.

As it turns out, DVBSHOP made a smart move with focusing on FireWire, even more so as this type of interface has been gaining ground in the home video segment for many years now anyway.

DVBSHOP sent us the internal model for our test – the FloppyDTV. It can easily be slotted into any PCI or PCI-e port and draws its power directly from the PC's internal power supply. All you need to do is connect the supplied power cord to one of the 4-pin power sockets that

are also used to power hard disks, DVD drives and so on.

The outward facing side of the card features the tuner connection as well as – slightly below – a CI slot that can take any standard module for conditional access systems like Irdeto, Seca, Viaccess, Conax, Cryptoworks, Nagravision and so on. The FireWire interface required for data transfer is located directly on the printed circuit board of the FloppyDTV and cannot be accessed from the outside. This means the card needs to be connected to one of the PC's internal FireWire ports. In case such an internal port is not available, the FloppyDTV package includes a second slot sheet that can be used to guide the FireWire cable to the outside and then connect it to one of the regular FireWire ports of the PC. The manufacturer can even supply a suitable adapter kit to install the card into a 3.5 inch hard disk slot, but this device is not included as standard.

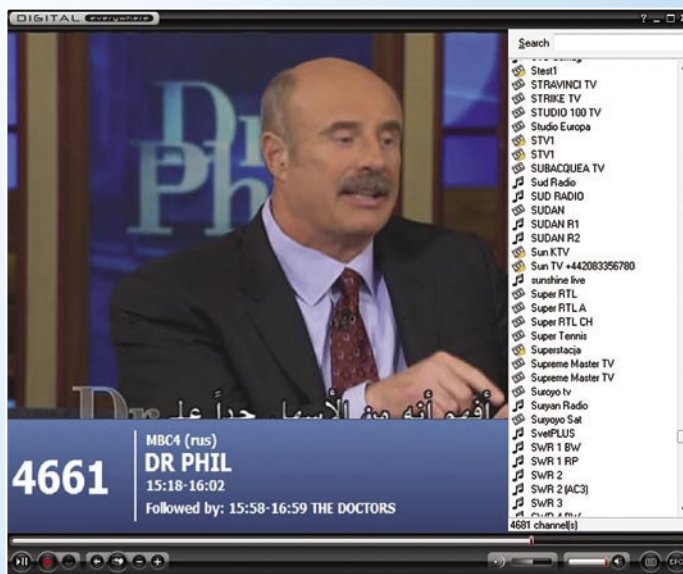
DVBSHOP ships three versions of the FloppyDTV card: DVB-S/2, DVB-C and DVB-T. It's a pity that the card is not designed for swapping tuners because the tuner is permanently soldered onto the printed circuit board. A tuner that could easily be changed even by users with only moderate technical skills would provide some wonderful icing on the cake.

Installation

If you're looking for an impressive demonstration of how Plug&Play is supposed to work you've come to the right place. Simply identify an available PCI or PCI-e slot and insert the card. Indentations for both slot types are provided or you may also choose to simply detach the bracket that is not required to



Channel list sorted according to providers |



Channel list sorted alphabetically |



Channel 4 HD with info bar |

make sure the card firmly sits in place. Usually you will also easily find an unused power connector and be able to connect the card to an internal FireWire port. And that's it!

The manufacturer ships this product with a handy step-by-step installation guide. The minimum system requirements are Pentium IV

1.5 GHz or Athlon XP+ 200 for SDTV and Pentium IV 3.5 GHz or Athlon XP+ 3500 with a DXVA/H.264 compatible graphics board for HDTV. Both the Windows XP and Windows Vista operating systems are supported, the latter with 32bit as well as 64bit.

Apart from the provided FireDTV Viewer you may also

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use the card in combination with the Windows Media Center (only with Windows Vista and Windows MCE 2005). As – unfortunately – the Windows Media Center does not support HDTV with H.264 we decided right at the start to use the in-house software solution provided by the manufacturer.

Installation was completed in a breeze, and we also did not encounter any difficulties installing all required drivers on our test PC which is equipped with Intel Core2Duo 1.8 GHz, 2 GB RAM, Nvidia Geforce graphics board and Windows Vista. A few minutes was all it took to get ready for HDTV on the PC.

Everyday use

Even at first sight the FireDTV Viewer impresses with its sleek, cleverly laid out and easy to use appearance. The manufacturer went at great lengths to avoid overpowering users with a main screen that is full of buttons, features and adjustment options. Thanks to this strategy even absolute beginners will not be overwhelmed by an endless variety of settings and thus should be able to use the software after only a short while.

The main window displays the selected TV channel in presentation mode (full screen) or any desired size. Only when the mouse cursor is moved to the outer right section of the window does a channel list pop up. This way no valuable space is wasted by a permanent channel list display.

The control bar is located at the lowest end of the FireDTV Viewer and can be used to control the viewer. Altogether it boasts eleven buttons, which are (from

left to right): play/pause, record, timer, previous channel, search, one channel down, one channel up, volume, mute, teletext and EPG. Above the control bar a second bar indicates the current position during playback. It can also be used to move to another position thanks to time shifting during playback and recording. There are no dedicated buttons for fast forward and fast rewind, but thanks to the time shift bar this is no real loss.

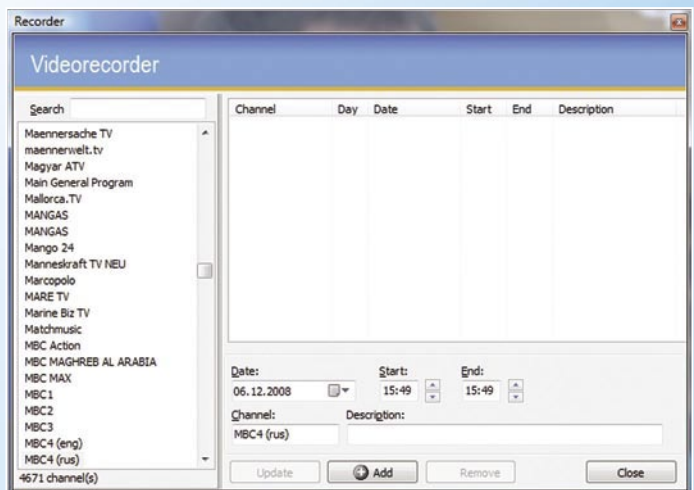
Once the installation process is finished the software is ready to perform its first channel scan. The FireDTV Viewer comes with a pre-stored list of 153 European, Asian and American satellite positions which is quite up-to-date and well sorted. Any required LOF can be used which means that the good old C band is supported just as well as signals from the exotic S band.

DiSEqC 1.0, 1.2 and 1.3 are available if your set-up includes more than one LNB and make the software compatible with small dual-feed antennas as well as motorised dishes. Only those relying on DiSEqC 1.1 (frequently used in combination with multi-focus antennas) are left standing in the rain, as the software currently is unable to work with such systems. In the end, however, the manufacturer would be able to rectify this glitch with a simple software update.

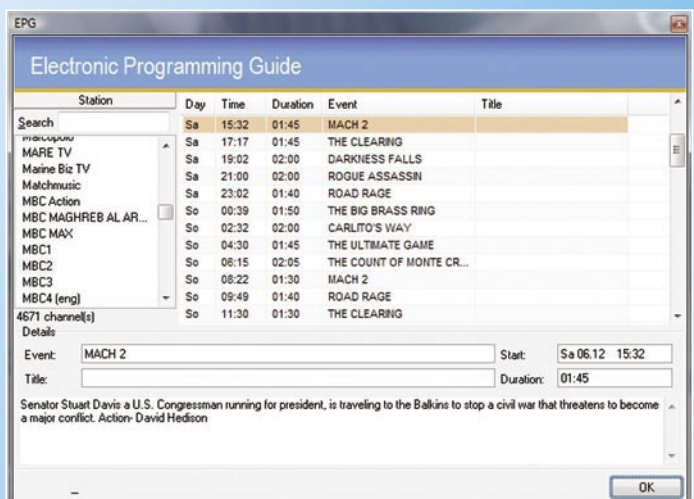
The pre-stored transponder list allows performing a channel scan either across the full frequency range of a satellite or for a restricted range. Alternatively, a single transponder can be chosen for a scan as well. Each scan result is saved separately with an individual time stamp by the software and it is even



CI menu |



PVR timer function |



Extended EPG |

possible to decide whether the result should be added to an existing list or stored separately. In case you don't use a conditional access module it is of course perfectly possible to restrict any search to free-to-air channels only. We tested the software with

HOTBIRD 13° East with its 100+ transponders and were surprised it took only 4:20 minutes to find more than 1500 TV and radio channels, which is quite an achievement.

Now that the channel list is

filled it is worthwhile looking at the settings menu: Here you can choose your favourite OSD language (German, English and Italian are currently available), the directory for recordings and the time shift buffer, you can define whether recordings exceeding a certain size should be divided into several files and select the used hardware components. Even a dedicated codec can be selected manually for each supported output format, unless you decide to let the FireDTV Viewer take care of this by activating the 'auto' mode.

Whenever you tune into a new channel the software displays an info bar in the lower screen area. It shows EPG information relating to the current event if the channel provides this data. Switching channels takes approximately one second, which is fairly impressive for a PC solution.

The channel list that pops up in the right screen area can easily be sorted, edited and adjusted to personal preferences. You can sort and display channels alphabetically, according to providers, frequency or satellite and you can blank out either TV, radio or encrypted channels.

Channels you never watch can be deleted while channels you watch on a regular basis can be moved into a favourites list. Another feature we really appreciated is the search mode which you can use to find even channels that are hidden way down the channel list.

Simply press the EPG button in the status bar to open the cleverly laid out EPG that displays information

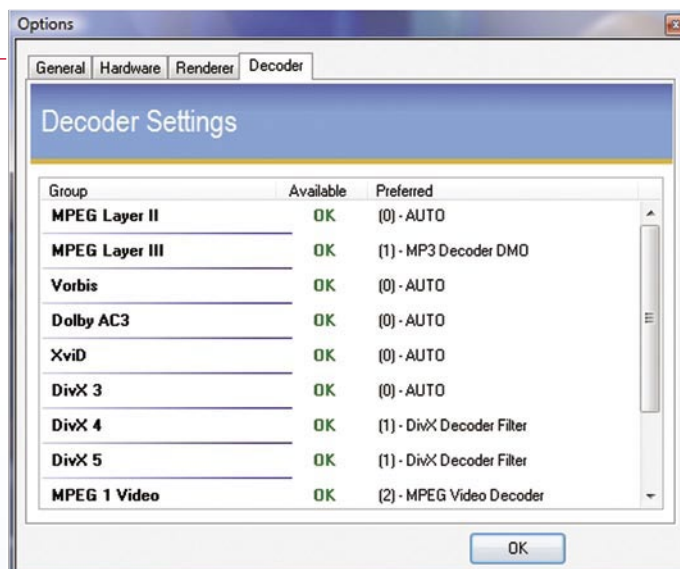
for up to a week in advance, if provided for the selected channel. Naturally you can mark EPG entries for recording with a simple touch of a button – we would not have expected anything less for a premium product anyway.

In case no EPG data are available for certain channels it is of course just as well possible to create manual timer entries or edit existing entries through a dedicated timer menu. The integrated teletext decoder rounds off the fine overall impression of the FireDTV Viewer. Like all other features, it performed flawlessly during our test.

TELE-satellite tests the reception capabilities of all receivers that make it to our lab, and the FireDTV was no exception. It performed well and was able to also pull in weaker signals from NILESAT 7° West or EXPRESS AM1 40° East with ease. The tuner also did a good job with SCPC signals and created a steady signal with symbol rates of 2 MS/s and above. Only when the symbol rate was just 1 MS/s from EUTELSAT SESAT 36° East did the FloppyDTV not pass the test.

H.264 HDTV reception was not a problem with our test PC and we were able to run other applications next to the TV window without noticeable limitations. But what about older systems?

We stumbled across an old Pentium IV PC in our basement and revived it to check how the FloppyDTV works with less state-of-the-art PC hardware. The result was far better than what we had anticipated: While it came as no surprise that SDTV reception worked brilliantly, we found that even HDTV reception was possible, albeit with some frozen



Selection of different codecs!

Expert Opinion



+

The FloppyDTV card is an extremely versatile and powerful extension to your existing PC at home. It allows storing and editing TV and radio contents directly on your hard disk. The FireDTV Viewer also performed very well during our test and stands out thanks to its ease of use.

-

DiSEqC 1.1 switches are not supported and editing the pre-stored satellite and transponder lists is rather cumbersome.

TECHNIC

DATA

Distributor	DVB Shop Network and Television GmbH D-04509 Neukyhna OT Pohritzsch, Germany
Email	webmaster@dvbshop.net
Website	www.dvbshop.net
Tel	+49 (0) 34954/31960 (Mo-Thu 13:00-17:00)
Fax	+49 (0) 34954/49233
Model	FloppyDTV
Function	Internal PC Card for the reception of SD and HD content via DVB-S/2 using FireWire connector
Channel memory	unlimited
Satellites	153
Symbol rates	2-45 Ms/sec.
SCPC compatible	yes (tested > 2 MS/s)
USALS	yes
DiSEqC	1.0, 1.2, 1.3
EPG	yes
C/Ku-Band compatible	yes

frames every once in a while and no way of working with other applications simultaneously as the processor was really pushed to the limits with HDTV viewing.

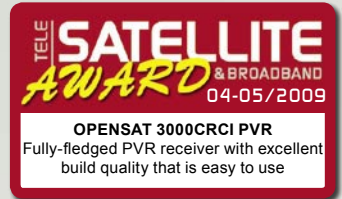
This proved once more that HDTV solutions for PCs require an enormous amount of processing power as well

as an equally capable graphics board.

Thanks to decreasing prices for hardware components and technological progress, however, most modern home PCs can be expected to meet these requirements and should be a perfect match for the FloppyDTV card.

OPENSAT 3000CRCI PVR

A Small Receiver With Big Features



The OPENSAT 3000CRCI PVR is a small CI receiver with PVR. It has unusually small dimensions and therefore fits into any living room environment. The front panel features a four-digit segment display and – in the upper left corner – the standby button. All other buttons and slots are hidden behind a flap.



DIGITAL SATELLITE RECEIVER • 3000 CRCI PVR

DIGITAL SATELLITE RECEIVER • 3000 CRCI PVR

If you open this flap it reveals seven buttons to operate the receiver without remote control, a CI slot for all standard modules like Irdeco, Seca, Viaccess, Cryptoworks or Nagravision, a Conax card reader as well as a USB interface.

The back panel is equally well designed and sports the

usual satellite IF input and loop-through output, 2 scart euroconnectors, 4 RCA jacks for stereo audio and video, a 0/12 control current, an optical digital audio output, a UHF modulator output, an RS-232 interface and a mechanical mains switch.

The remote control that comes with the receiver sits well in your hand, boasts a convenient design and proper labelling. Even though the on-screen

menu of the OPENSAT receiver is more or less self-explanatory the manufacturer provides a comprehensive user's manual which solves any questions that still may arise. It deals with all functions and options of the receiver and provides screen shots and illustrations where necessary.

The overall build quality of the 3000CRCI is very good and we had no complaints whatsoever with the unit we received for testing.

Everyday use

This receiver is not equipped with an installation wizard, which means that you have to start out with selecting your preferred language for the on-screen menu. Once you have found this menu item the following languages are available: English, French, German, Italian, Spanish, Turkish, Polish, Farsi, Slovak, Slovenian, Czech and Hungarian.

The main menu boasts a clear structure and is divided



TELE-satellite World

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Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0905/bul/opensat.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0905/ces/opensat.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0905/deu/opensat.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0905/eng/opensat.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0905/esp/opensat.pdf
Farsi	فارسی	www.TELE-satellite.com/TELE-satellite-0905/far/opensat.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0905/fra/opensat.pdf
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Available online starting from 27 March 2009

OPENSAT

DVB
Digital Video
Broadcasting

OPENSAT

into six categories (channel list, antenna settings and search, settings, tools, games and PVR). The first step requires adjusting the receiver settings to the existing TV equipment.

The PAL, PAL-M, PAL-N, SECAM and NTSC colour systems are supported and can be selected manually – or you may choose the 'auto' function and let the receiver take care of everything.

The video signals can be put out as RGB or CVBS, with S-Video and YUV not implemented by the manufacturer. The UHF modulator can be activated with a dedicated menu item with channels 21 to 69 being available for that purpose.

Like all DVB devices the OPENSAT 3000CRCI is able to sync the local time with the time code transmitted via satellite. To make sure the time is correct you do, however, have to define the difference of the local time to GMT. While most other receivers require users to set GMT +/- x hours, this box shows a number of well known cities for each time zone which makes it easier to identify the appropriate zone, even when you're not 100% sure how many hours offset you have.

A separate menu item takes care of adjusting daylight saving time so that you never have to worry about changing the time twice a year. Some useful additional settings like OSD or channel switching options complete this menu item.

Next, the receiver has to be familiarised with the existing

reception system. It comes with a pre-stored list of 44 European satellite positions which is very up-to-date and well sorted.

The colour-coded buttons on the remote can be used to add new satellites in a breeze, to edit existing entries or to delete outdated and unused entries.

The receiver also has to know whether it is connected to a motorised or a fixed antenna as it supports DiSEqC protocols 1.0, 1.1, 1.2 and 1.3 (USALS). Thanks to DiSEqC 1.1 support multifocus antennas can be connected to the OPENSAT box too, just as well as dishes with practical USALS motors which only require the exact location of the antenna to find all available satellites.

Various LOFs are pre-set so that C band reception is an option as well apart from Ku band reception. Even circular signals from LNBFs can be received and processed. Altogether the range of available LOFs is rather impressive, even though it is not possible to enter a specific LOF manually.

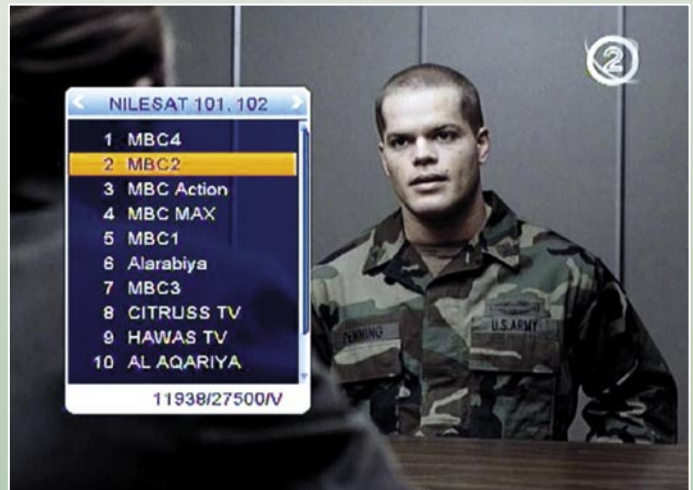
The 3000CRCI sports a 4000-channel memory and in order to fill it with offerings from the sky you may want to either perform an automatic channel search for one or



Transponder list of NILESAT 7° West |



EPG |



Channel list |



OPENSAT



Winners of The Queen's Award For International Trade 2007, Horizon Global Electronics is a UK Company established in 2001 specialising in the design and manufacture of hand held test equipment for the digital satellite and TV sector. Our strength lies in being able to find innovative solutions to leading technology issues .

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- Quality indicator (Pre BER) displayed alongside RF Level (dBuV)
- Pre and Post BER can be displayed with their actual values (setup option)
- 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
- 12 volt in car charger supplied
- USB lead supplied
- CE approved
- Compliant with EN 61326-1 : 2006 (EMC) and EN 61010-1 : 2001 (Electrical safety)
- Registered design
- Free product support via phone and email

HDSM USB PLUS (additional features)

- Easy to use Spectrum Display Mode
- QPSK Constellation Diagram (with zoom function)
- Histogram display with up to 9 simultaneous carrier measurements for single cable installations (SCR)
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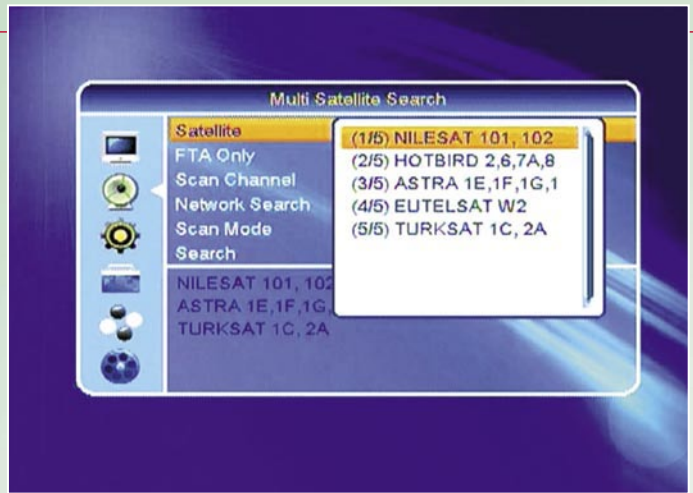
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email: sales@horizonhge.com



Main menu – installation |



Multi-satellite search |



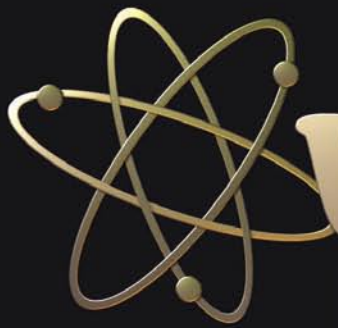
Channel list editing |



Info bar |



OPENSAT



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INDONESIA



Multi-picture view with 9 channels

several satellites or a manual transponder search. For both modes you can restrict the search to free-to-air only, TV only, radio only or TV & radio. Network search can be activated if required.

The integrated blind scan mode is a nice little treat as it allows finding and scanning transponders that are not (yet) on the stored list.

We tried a standard search on HOTBIRD 13° East and the OPENSAT took 3:20 minutes

and found 1235 TV channels and 456 radio stations. When activating blind scan on the same satellite the receiver finished after slightly less than five minutes and found 1132 TV channels and 431 radio stations. Both results are very satisfactory considering we're in automatic mode here.

For a manual search individual transponders can be selected, edited, sorted, added or deleted at the touch of a button. Here

again, the colour-coded buttons on the remote control turn the whole process into child's play. The only thing we missed was manual PID input, which this receiver does not support.

If we bear in mind that the channel memory is limited to 4000 entries it makes sense to think about adjusting the channel list according to personal preferences and – above all – to seriously consider deleting all channels you will never ever watch.

All this can be done with the first menu category which reveals all channel list editing options. It goes without saying that not only the TV list but also the radio list can be rearranged in very much the same way.

To all DXers out there: You might be pleased to learn that the complete channel list can be deleted at the touch of a button without resetting any other receiver settings at all.

When you're in edit mode either all available channels are listed or – for sake of usability – only channels from individual satellites are displayed.

Again, the colour-coded buttons of the remote are used to add channels to one of several favourites list (which can be individually named), to delete, move or PIN-lock channels so that underage members of the family do not have access to unsuitable material on the TV screen.

Listed channels can also be marked for skipping when zapping up and down the list. Whenever you're in edit mode



the current video is inserted in a small window at the right corner of the screen.

The red button on the remote control opens a search window where you can simply key in the desired channel name while to the left of the inserted keyboard all matching hits are listed.

While this feature is a godsend in itself OPENSAT has gone that extra mile with implementing it in an extremely user-friendly way.

The very good overall impression of this receiver is finished off with a zoom function, an integrated teletext decoder and multi-picture display of nine channels.

OPENSAT uses a tuner with a rather low threshold and therefore was able to pick up and process even weak signals such as the ones from NILESAT 7 West or ASTRA2D 28° East.

The SCPC reception test was also passed with flying colours and our test transponder on TURKSAT with a symbol rate of only 2400 KS/

s didn't pose a problem for the 3000CRCI.

The integrated CI interface worked just as smoothly in our test and accepted all modules we threw at it. The built in Conax card reader also worked brilliantly with our test card.

The RS-232 interface can be used to update the operating software or to install a new channel list. To this end, OPENSAT provides a dedicated editor for PCs which is even SatcoDX compatible and consequently can be used to provide up-to-the-minute channel and transponder data to the receiver.

PVR

In case you've been wondering why the OPENSAT 3000CRCIPVR receiver sports the PVR in its model designation here's the answer: It's all in the USB 2.0 interface on the front panel, which turns this OPENSAT receiver into a fully-fledged PVR.

Any kind of portable hard disk, memory card or

memory stick can be connected to this port and will be recognised by the receiver in a matter of seconds. From that very moment all PVR functions become available, such as recording the current event, playing back stored files and of course time shift viewing.

So next time you're right in the middle of a great prime time movie when the phone rings you simply press pause, pick up the phone and continue from that very scene when you have finished the phone call.

Naturally we tested all PVR features and found nothing to complain about. Eight timer entries can be created which also allow recording daily or weekly events without further ado.

In addition to recording and playing back of TV and radio contents the receiver features an MP3 player and a picture viewer so that you can present your precious holiday photos on the TV screen next time. Or you may use the receiver as a juke box for an upcoming party.

Software updates are also possible using the USB interface - all you need to do is download the appropriate file from the manufacturer's website, copy it into a memory stick and then start the update process on the receiver.

The only real drawback of the OPENSAT 3000CRCI PVR is the fact that a storage medium can only be connected to the front panel of the receiver. This in turn means that the elegant flap has to stay open all the time and reveals the somewhat less elegant inner front with all its buttons and slots.

What we liked very much, however, is the ease with which recordings can be edited on the PC or burnt onto DVD. Thanks to portable external storage media it is as easy as ABC to connect them to the PC and therefore never again have to worry about transferring huge files from one device to the next.



OPENSAT

Expert Opinion

+

The OPENSAT 3000CRCI PVR is a fully-fledged PVR receiver that is perfectly suitable for any living room environment and for all members of the family thanks to its ease of use. The operating system has a user-friendly design and worked flawlessly during our test. The hardware components used by OPENSAT also left nothing to be desired. Thanks to PVR, MP3 player and picture viewer the 3000CRCI is an extremely versatile receiver that will look great in any cabinet thanks to its small size.



Thomas Haring
TELE-satellite
Test Center
Austria

-

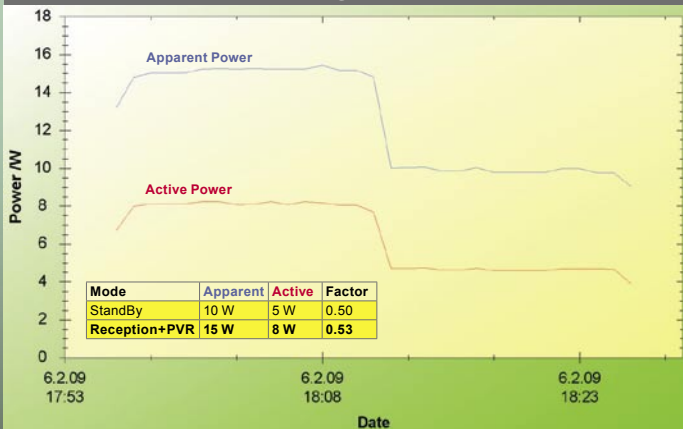
The USB interface on the front panel is a little inconvenient. Moving it to the back or – even better – adding a second USB interface on the back panel would be a good idea.

TECHNIC

DATA

Manufacturer	ABC Biznis, 955 01 Topol'cany, Slovakia
Tel/Fax	+421 38 5313508
E-Mail	info@abcbiznis.sk
Website	www.opensat.sk, www.abcbiznis.sk
Model	OPENSAT 3000CRCI PVR
Function	Digital DVB-S CI-PVR receiver
Channel memory	4000
Symbol rates	2-45 Ms/sec.
SCPC compatible	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
HDMI connector	no
Scart connector	2
Audio/Video output	3 x RCA
S-Video output	no
UHF modulator	yes
0/12 Volt connector	yes
Digital audio output	yes
EPG	yes
C/Ku-band compatible	yes
PVR-function	yes (via external USB 2.0 storage media)

ENERGY DIAGRAM



First 15 minutes: reception with channel switching, PVR recording and play. Second 15 minutes: standby



Main menu – PVR |



PVR Manager |



MP3 Jukebox |



SCPC reception via TURKSAT 42° East



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Function	HDTV PVR Satellite Receiver with Scaler
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Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	• / •
Scart/Digital Audio	• / •

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TOPFIELD



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

TELE SATELLITE AWARD & BROADBAND
02-03/2009

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

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Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0903/bid/dizipia.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0903/tur/dizipia.pdf



DIZIPIA



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



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/jiuzhou.pdf



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



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/opensat.pdf





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

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AB-COM



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

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10-11 / 2008

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

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TOPFIELD



Manufacturer	Sonicview
Website	www.sonicviewusa.com
Function	Digital Satellite PVR Receiver With Two Tuners
DVB-S2/LAN	— / —
Channel Memory	6000
DiSEqC	1.0 / 1.1 / 1.2
S-Video/HDMI	● / —
Scart/Digital Audio	— / ●

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SONICVIEW



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

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 10-11 / 2008
VENUS NEW MILLENNIUM II-EP
 Easy to use receiver for big motorized dishes at an economic price

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VENUS



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

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08-09/2008

ABCOM IPBOX 9000 HD PLUS
A huge range of connection options make this box a true all-rounder – yet it remains easy to use as a family receiver.

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

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06-07/2008

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

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0807/tur/arion.pdf





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

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04-05/2008

NANOXX 9500HD
Small enclosure, superbly crisp picture, extremely fast channel search, and connection for HDD

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- Polish Polski
- Portuguese Português
- Romanian Românesc
- Russian Русский
- Swedish Svenska
- Turkish Türkçe



NANOXX



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

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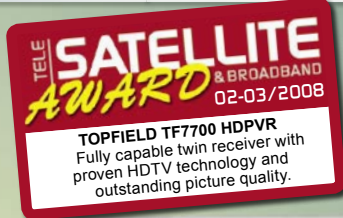
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- Romanian Românesc
- Russian Русский
- Swedish Svenska
- Turkish Türkçe



OPENSAT



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



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0803/tur/topfield.pdf



Manufacturer	AB-COM
Website	www.abcom.sk
Function	Linux-based Receiver for Terrestrial, Cable and Satellite DVB Reception
DVB-S2/LAN	— / •
Channel Memory	4000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / —
Scart/Digital Audio	• / •



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Manufacturer	Arion
Website	www.arion.co.kr
Function	HDTV Satellite Receiver with CI Slot
DVB-S2/LAN	• / —
Channel Memory	4000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0801/tur/arionHDCI.pdf



ARION

Manufacturer	Infosat
Website	www.infosats.com
Function	MPEG2 FTA receiver with Blind Scan
DVB-S2/LAN	— / —
Channel Memory	1000
DiSEqC	1.0 / 1.2
S-Video/HDMI	— / —
Scart/Digital Audio	— / —

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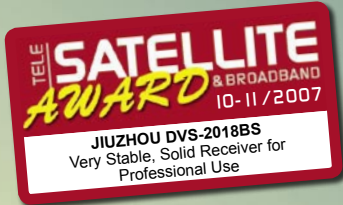
INFOSAT

Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Professional Digital Satellite Receiver with 2 CI Slots
DVB-S2/LAN	- / -
Channel Memory	!
DiSEqC	-
S-Video/HDMI	- / -
Scart/Digital Audio	- / -

Main Menu
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Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Digital Satellite Receiver FTA
DVB-S2/LAN	- / -
Channel Memory	4800
DiSEqC	1.0 / 1.2
S-Video/HDMI	• / -
Scart/Digital Audio	• / •



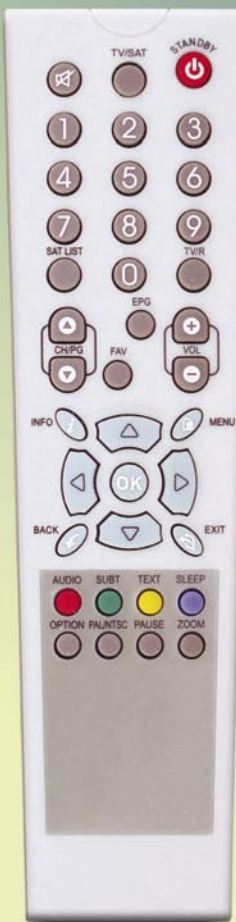
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JIUZHOU



Manufacturer	ABC Biznis
Website	www.opensat.info
Function	Fast satellite receiver with two CI slots
DVB-S2/LAN	- / -
Channel Memory	6000
DiSEqC	1.0 / 1.2
S-Video/HDMI	- / -
Scart/Digital Audio	• / -

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OPENSAT



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

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High quality at a reasonable price – that’s the mission statement of Slovak receiver manufacturer AB-COM which entered the market in 2005 with its Linux-based set-top boxes. The SD receiver 200S was an instant success back then and is still being sold in large numbers today, since it is rated as one of the best and at the same time best-value Linux receivers available on the market. The company’s managing director Juraj Masaryk gave us a brief storyline of AB-COM’s past and an outlook of what the future may hold for the company.



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Available online starting from 27 March 2009

■ AB-COM premises in Slovakia. One of the delivery trucks can be seen in front.

Strictly speaking, AB-COM already celebrates its 20th anniversary this year, but the company has gone through quite substantial changes in the past and in actual fact the year 1992 is considered as the starting point for AB-COM as a satellite company.

Up until that time AB-COM had been a PC distributor which had been founded by two partners. In 1992 Juraj Masaryk joined the team. He had been employed as a sales and purchasing manager by a satellite dealership before but decided to implement his own ideas at one stage.

Juraj Masaryk initially received a 25 percent shareholding from the existing AB-COM partners and began his career at the company with expanding the company's



■ Juraj Masaryk is a qualified engineer and runs AB-COM as managing director. In all modesty he calls himself sales and purchase manager and he is constantly identifying ways to optimise business processes. Here he is seen showing the organisation chart for 29 members of staff at AB-COM. "Some employees cover several areas of responsibility and the organisation chart details how much time they invest in the various tasks," Juraj explains. "Every week all activity reports are collected and evaluated." Thanks to this smart organisational structure AB-COM is well placed for future growth.





■ View of the AB-COM shop. Retail customer can buy satellite components right at the AB-COM premises. Sales manager Peter Hrnko is one of the five members of staff in the shop and is seen here presenting an AB-COM receiver. While satellite receiver production generates 70 percent of total turnover, AB-COM also supplies 3000 dealerships in Slovakia and the Czech Republic with all additional satellite components.

business to also include satellite components. To start with, AB-COM offered MMDS components for terrestrial television, which is a segment that still exists today, but with little or no significance for the overall market.

Today Juraj Masaryk owns 60 percent of AB-COM, with the two original partners having become dormant partners who leave the day-to-day business to Juraj. "AB-COM is now focussing on satellite receivers only," Juraj Masaryk tells us. This is where he sees future potential and this is where he can implement all his ideas.

At the beginning AB-COM imported receivers from various manufacturers, "but the performance was not up to my standards," Juraj Masaryk remembers. "I wanted to see my own visions become real."

But still, this was only one of several motivations to become a receiver manu-



■ Even with the most stringent quality checks in place you can never completely eliminate the need for repairs. René Hubinsky is one of the four software support engineers.

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facturer. "I always believed that Linux would be a great match for satellite receivers," says Juraj Masaryk and so he went about using the advantages offered by Linux to put his ideas into practice. One of the tools to this end is the receivers' software that is developed in-house by AB-COM software engineers. "Software for SD receivers is already fully developed, and for the HD models it currently receives its final polishing." In the future, HD receivers from AB-COM will feature a dedicated Enigma HD AB version.

The third and – in the end – decisive argument for manufacturing AB-COM receivers is the famous Q word. "Quality is at the centre of our attention," Juraj states, but how can you guarantee that it remains high? Naturally, Juraj found a solution for that as well: The components are sourced from a Korean manufacturer as so called SKDs (semi knock down parts), assembled by AB-COM and individually tested.

Juraj shows us the label on the back of an AB-COM receiver: "You can read it right here: Tested in EU." This is AB-COM's way of guaranteeing that each single product operates to the company's exacting standards.

But it doesn't stop with production. Where are AB-COM receivers actually sold? Tomáš Kopecký is the sales manager for Europe and tells us that "in almost all European countries we cooperate with national distributors." With a glimpse at a map of the world Tomáš proudly adds " we are represented even in North America."

Of course there still are a few white spots on the map, such as France, Portugal, Turkey, Great Britain and North Africa. "We are still looking for distributors in those markets," Tomáš adds in flawless English and says "I look forward to getting in touch with distributors in those countries." Juraj explains that "of course we can also adapt our receivers to the requirements of individual markets. Right now we are working on such a project for the Ukrainian market."

"Currently some 30 percent of sales are generated with SD receivers, with the majority of 70 percent being HDTV boxes." Looking at the AB-COM 200S success model Tomáš explains that "from a strictly economic point of view this is our best product: It offers top quality with all required features at a reasonable price." Juraj seconds that "this is exactly why we

■ View of an area in the assembly shop: This is where externally sourced components are assembled by 16 employees until a finished AB-COM receiver can be individually tested for performance.



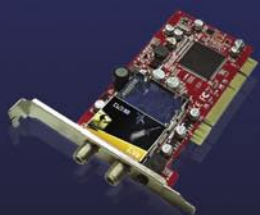
■ Warehouse manager Michal Valent is busy storing recently finished AB-COM receivers in the warehouse and preparing them for dispatch as orders roll in.



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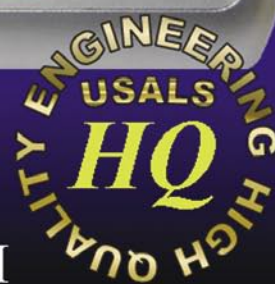
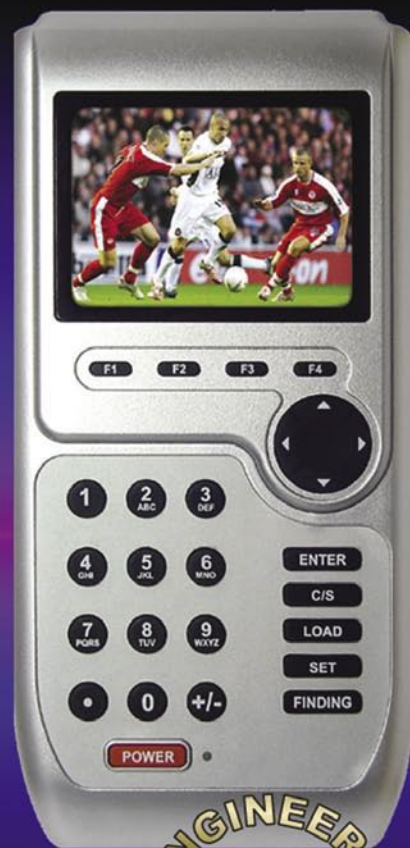
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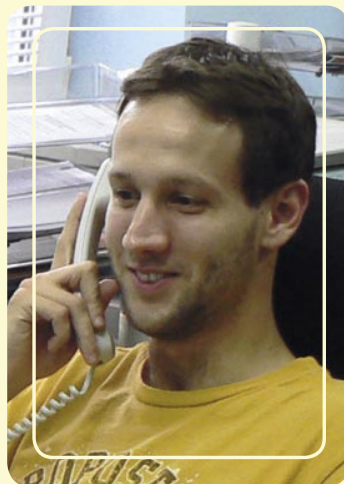
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■ Sales manager Radovan Cifra cares about wholesale customers in Slovakia



■ Halo Juraj is the sales manager for wholesale customers in the Czech Republic.



■ Sales manager for Europe Tomáš Kopecký is the company's point of contact for distributors outside Slovakia and the Czech Republic. "We'd be more than happy to welcome new national distributors to our network!"



■ Juraj Bobula takes care of wholesale customers in Slovakia.

are working on launching a HD model following the same concept."

By the time you hold this issue in your hands the market launch should be just around the corner and the final product is expected to be very small, feature a smart card reader as well as the in-house Enigma HD AB operating system.

"For the 2009 financial year we envisage rising sales for our HD receivers to reach a share of 80 percent, with the year 2010 seeing a share of 90 percent," Tomáš interprets the sales projections for the years to come. "The AB-COM 350 Prime receiver, for example, comes with an interchangeable tuner and is a favourite of cable TV providers," Juraj highlights another development.

Yet, DVB-C is only one of several focuses at AB-COM. Juraj looks even farther into the future when he reveals that "as soon as the Enigma HD AB project is finished our software engineers will look at developing Enigma IPTV AB."

Juraj Masaryk can be more than happy with the way business has developed. "From 2007 to 2008 we were able to witness an almost 30 percent increase in turnover, and the rise for 2009 is expected to reach 20 percent," Juraj proudly states after a few clicks in the company's business software application.

"Total turnover almost reached ten million euros in 2008, and of course this level will be surpassed in 2009," Juraj continues with optimism and also informs us that new company premises are being



■ Juraj Masaryk is a genuine satellite enthusiast – even when he's not at work. Here he is seen on the balcony of his house next to a multi-LNB dish.

constructed as we speak. "This way there is enough room for future expansion!"

One thing is for sure: AB-COM likes to plan ahead. And this means that the future

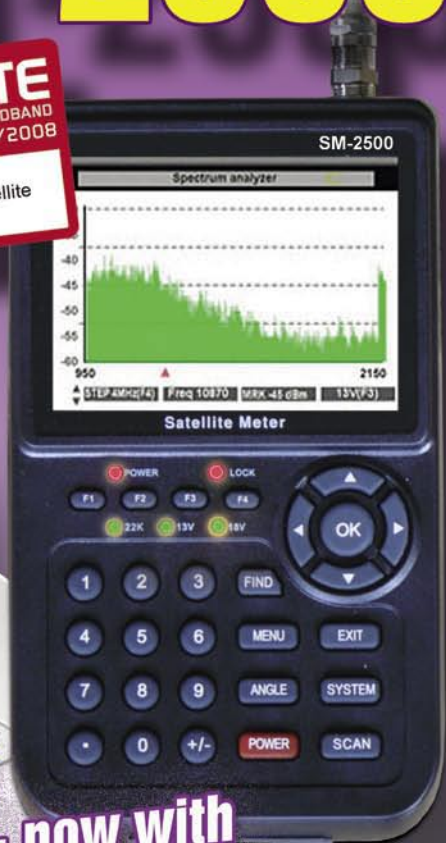
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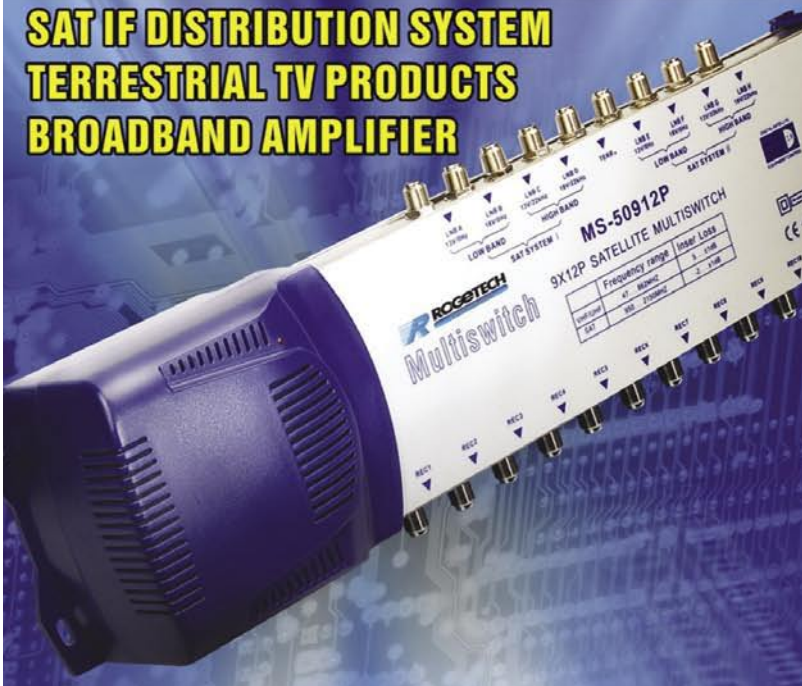
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■ AB-COM attaches great importance to continued training: Once a year dealers are briefed on the latest development in a workshop. This 1-day event is sponsored by AB-COM and provides a welcome chance to dealers and AB-COM to get to know each other better.

Service engineer Martin Ďurinský ■ uses the workshop as a platform for demonstrating new features of AB-COM receivers



AB-COM will move into this new building on 1 October 2009 – the picture shows the architect's drawing. "We have outgrown the current building," Juraj explains. The construction crew is working to capacity so that the production shop with 6-metre ceiling and attached office wing will be ■ completed so soon as possible.



Premium Brand Topfield

Alexander Wiese

Topfield has been an established player in the high-end satellite receiver market for many years. The new TMS super box will further strengthen Topfield's foothold in the top-quality market. TELE-satellite wanted to learn more about the company's future strategy and spoke with Dong Hoon Suk of the Topfield marketing team.

Marketing manager Dong Hoon Suk ■
standing in front of a show wall
featuring Topfield receivers.

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170 members of staff are employed by Topfield in this seven-storey office building in southern Seoul. 100 employees work in the software and hardware department, while 70 people take care of administration, sales and marketing. The actual production facilities are based outside Seoul. Many satellite antennas are installed on the roof of the building, which is owned by Topfield. ■



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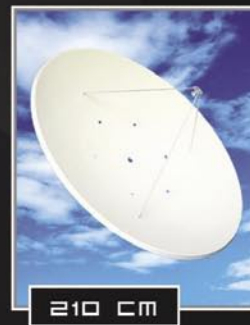
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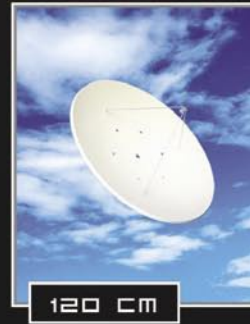
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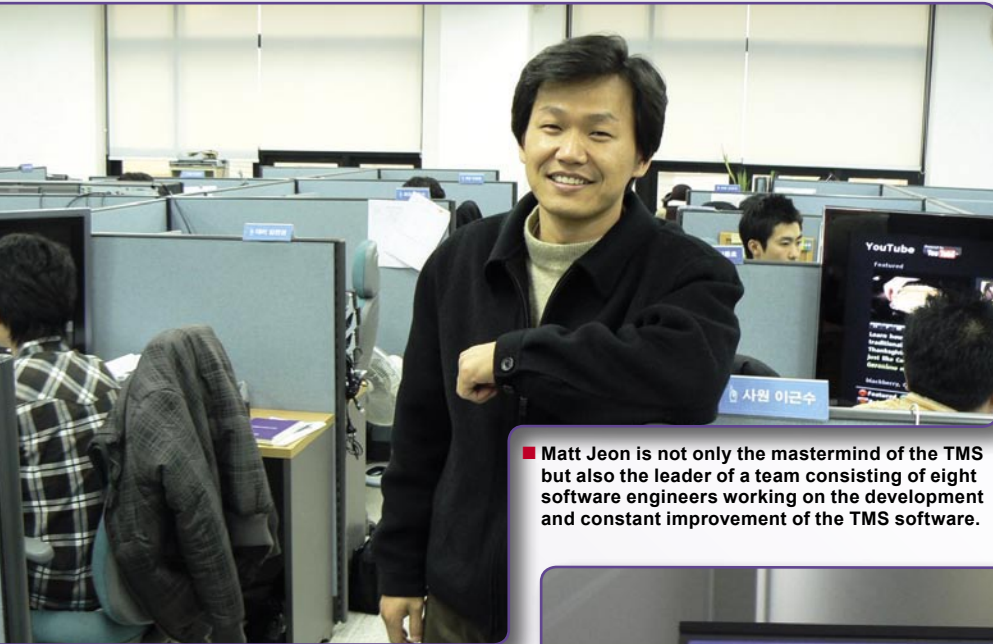
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All in all Topfield has a range of more than 200 different satellite receivers tailored to the requirements of individual markets. But of course the company's executives know only too well that the sheer number of different receiver types is no indicator for success. "We must prove that we are capable of achieving top performance," Dong Hoon Suk explains Topfield's strategy. "With the new TMS we cannot only demonstrate the technical quality we are able to



■ TMS product manager Jimmy Lee illustrating the connectivity of the innovative TMS.



■ Matt Jeon is not only the mastermind of the TMS but also the leader of a team consisting of eight software engineers working on the development and constant improvement of the TMS software.

achieve, but also a new level of usability." This will be an extremely high level of possibilities that have so far only existed in our imagination. "The TMS may also be used for commercial services," Dong Hoon Suk emphasises, "and connecting it to the Internet allows using totally new applications and thus enhancing the sphere of use for a satellite receiver in a truly dramatic way." As the TMS is a top-notch product Topfield will only launch it in selected markets at first. "Germany is one of these initial markets, together with the Netherlands, Belgium and Switzerland," Dong Hoon Suk continues. "Customers in these markets are particularly demanding." What we find surprising is that Topfield will also offer the TMS in Russia: "We believe the demand for the TMS will be very strong there," Dong Hoon Suk argues.

Jimmy Lee is the product manager responsible for the TMS. His job is to coordinate the software engineers with the hardware and production engineers and to discuss the required features of the new super receiver with the marketing department. He reveals some scheduled production details: "We will enter the market with an initial volume of 3000 TMS receivers," Jimmy Lee explains, "so that we can evalu-



■ TELE-satellite editor-in-chief Alexander Wiese being expected by Topfield for the presentation of the TMS.

ate market reactions."

Different markets will even see different varieties of the TMS. "The nature of pre-installed games will differ, for example," Jimmy Lee goes on. "The web browser that comes pre-installed in the TMS and can be used to access only certain services at first will become a fully-fledged browser in the second quarter of 2009," Jimmy Lee reveals some more details regarding the next stages of software development for the TMS.

Finally, we wanted to find out how the TMS idea was born in the first place. It all goes back to software engineer Matt Jeon, who came up with the concept for this new multimedia receiver back in February 2008. He set up a team of eight software engineers who went on to create the first prototype by August 2008. The TMS team

was completely 'quarantined' from the rest of the company and went about their business with top secrecy. Once the first prototypes had been assembled they were introduced to insiders and large-scale distributors. The general public will be able to get their hands on the TMS for this first time at this year's ANGA.

The TMS is manufactured in Korea and is a showcase for Topfield to demonstrate what state-of-the-art satellite receivers are capable of. Once again Topfield offers living proof that their 'Leader of Multimedia Home' slogan is hard earned and well deserved and shows that Topfield is every day working towards the perfection of technology.



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Worldwide Satellites in Toronto

Satellite business in a franchise system. This is the concept that Nick Aquino from Worldwide Satellites in Toronto, Canada follows. Satellite business based on a franchise system? What exactly does this mean? We wanted to know so we made our way to Mississauga. This city is right next to Toronto and is also the home of Toronto's Pearson International Airport.

Right next to the airport Nick Aquino, along with his girlfriend and business partner Connie Falleta, leased an office with a warehouse. The name on the sign turns out to be GTA Electronics. Nick had this to say about that: "You could say that GTA is our first franchisee; there's a second one in California in the USA."

We wanted to find out more and asked Nick when this all started. Nick explains: "In 2001 I started with my first satellite antenna and already in 2003 I became independent together with my girlfriend Connie." That's when the company Worldwide Satellites came into being. "We get most of our orders from our web site www.worldwidesatellites.com", on which he also advertises for his company, "In our first full business year (2004) we managed to turn over 12,000 satellite receivers."

But things only got better: in just four years receiver sales increased tenfold. "In 2008 it was 120,000 boxes", revealed Nick very proudly. With these many receivers sold, why didn't Nick start up his own receiver

■ Nick Aquino is President of Worldwide Satellites. Here in the stockroom he shows us one of EMP's multiswitches that Worldwide Satellites distributes in large numbers in North America. "With EMP alone we have yearly sales of \$1 million", reveals Nick.



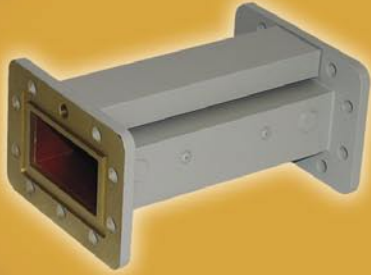
■ GTA Electronics can be found here in this office complex as a satellite dealer for end users and Worldwide Satellites as a satellite wholesaler. Pearson International Airport is located roughly 1 km behind the office.



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■ If you call Worldwide Satellites, you'll end up with the always friendly voice of Tanya Shipman.

switches from EMP", comments Nick. Satellite dishes are also available but shipping costs play a very large role here so in most cases Nick lets local dealers care about dishes. "Of the dishes that we do sell, 50% of them are Multisat antennas with which up to five satellites can be received", explains Nick, "The most popular satellite positions would be 91° west, 101° west, 110° west and 119° west. Customers also ask about the 82° west position and I am experimenting with a solution to receive a sixth position at 129° west."

series? "I thought about it", concedes Nick, "but the advantages also came with quite a few disadvantages." In the end, he is happy with the situation in which he works very closely with every satellite receiver manufacturer for the North American market, including SonicView. Their model SV-360 Elite PVR was recently introduced by TELE-satellite.

this franchising system. Nick explains: "Every Worldwide Satellites franchisee profits from our market experience. We deliver the products, naturally at a reasonable price, and the franchisee is guaranteed that these products will find their way to end users."

Worldwide Satellites with its seven employees supplies products as a wholesaler to about 50 satellite dealers in Canada and an additional 10 in the USA. If the franchise concept catches on, these numbers should definitely increase!

Customers simply can't say no when dealing with Andrea Falleta (left) and her sister Connie Falleta (right). Connie Falleta is President of GTA Electronics and sells products in this store to end users.

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Aluo-sat Knows Everybody!

Somebody active in the satellite field in China can hardly get around meeting Luo Shi Gang sooner or later. Not only because he's been distributing TELE-satellite in China for many years, but also because he is a high-profile figure in many other satellite areas as well. Since China is entering the DTH age in 2009 now is a good time for visiting Luo Shi Gang in his office in Shenzhen.

Luo has named his company Aluo-sat for a simple reason: In the Cantonese dialect spoken in southern China an 'a' is often prefixed to the first name of a person. So Luo becomes Aluo.

Originally, Luo comes from Sichuan in China's southwest. He studied electrical engineering and got his first job at a company producing electronic components for the Chinese military in Lanzhou City in the northwest. Among other things, his first employer also manufactured satellite equipment.

Luo experienced genuine satellite reception for the first time when he received signals from EKRA at 99° East, which transmitted on the UHF

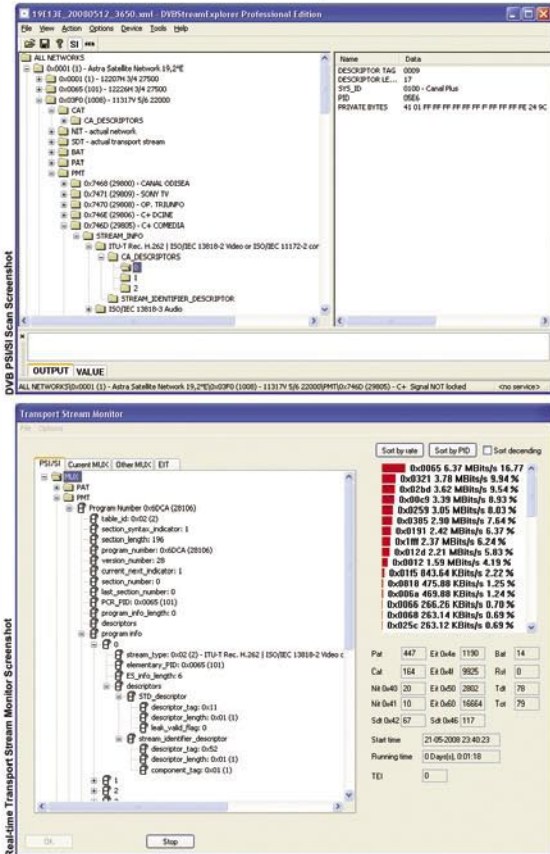
Aluo-Sat members of staff Lou Jun (left) and Luo Shi Gang (right) on the roof. Why did Luo Shi Gang choose the top floor for his office? You probably guessed it: He wants to make sure the cables between dishes and receivers are kept short. And why is he happy there is a rather dominant balustrade? Well, private satellite reception is still prohibited in China and this way Luo's antennas cannot be seen from outside. On this picture we can see two C band dishes – the one in the back is motorised, the one in front is stationary.

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- View DVB service information of collected PSI/SI data.
- Organize service view by satellite position, network ID, provider and alphabetic.
- Apply filter to easily locate services with interesting properties, such as MHP, AC3 and H.264 streams.

ATSC PSI/PSIP Scanning

- Scanning of PSI/PSIP information as defined in tables defined in ISO13818-1 and A/65C.
- Parsing of SST, MGT, TVCT, CVCT, RRT, EIT, ETT, DCCT and DCSCCT tables, including most descriptors.

DVB DSMCC scanning

- Scanning of DVB DSMCC data- and object carousel's as defined in ISO13818-6 and EN 301 192.
- DSMCC is used for distribution of i.e. MHP applications.
- Parsing of DSMCC sections.
- View information about DSMCC data-carousels.
- View information about DSMCC object-carousels.
- Saving of DSMCC data- and object carousels files. Object carousels are saved with original directory/file structure.

DVB MPE scanning

- Scanning of DVB MultiProtocol Encapsulation (MPE) as defined in ISO13818-6 and EN 301 192.
- Scan for active MAC addresses on MUX.
- Scan for active IPV4, IPV6, TCP and UDP endpoints.

Real-time Transport Stream Monitor

- Full parsing of PAT, PMT, CAT, NIT, SDT, BAT, TOT, TDT and EIT PSI/SI tables.
- Summary of services on current MUX including key parameters.
- Summary of services on other MUXes.
- Logging of MPEG2 A/V, H.264 and AC3 elementary stream key parameters.
- List of MUXes from NIT including key parameters.
- Summary of CA (EMM/ECM) information including key parameters.

... and much more! **

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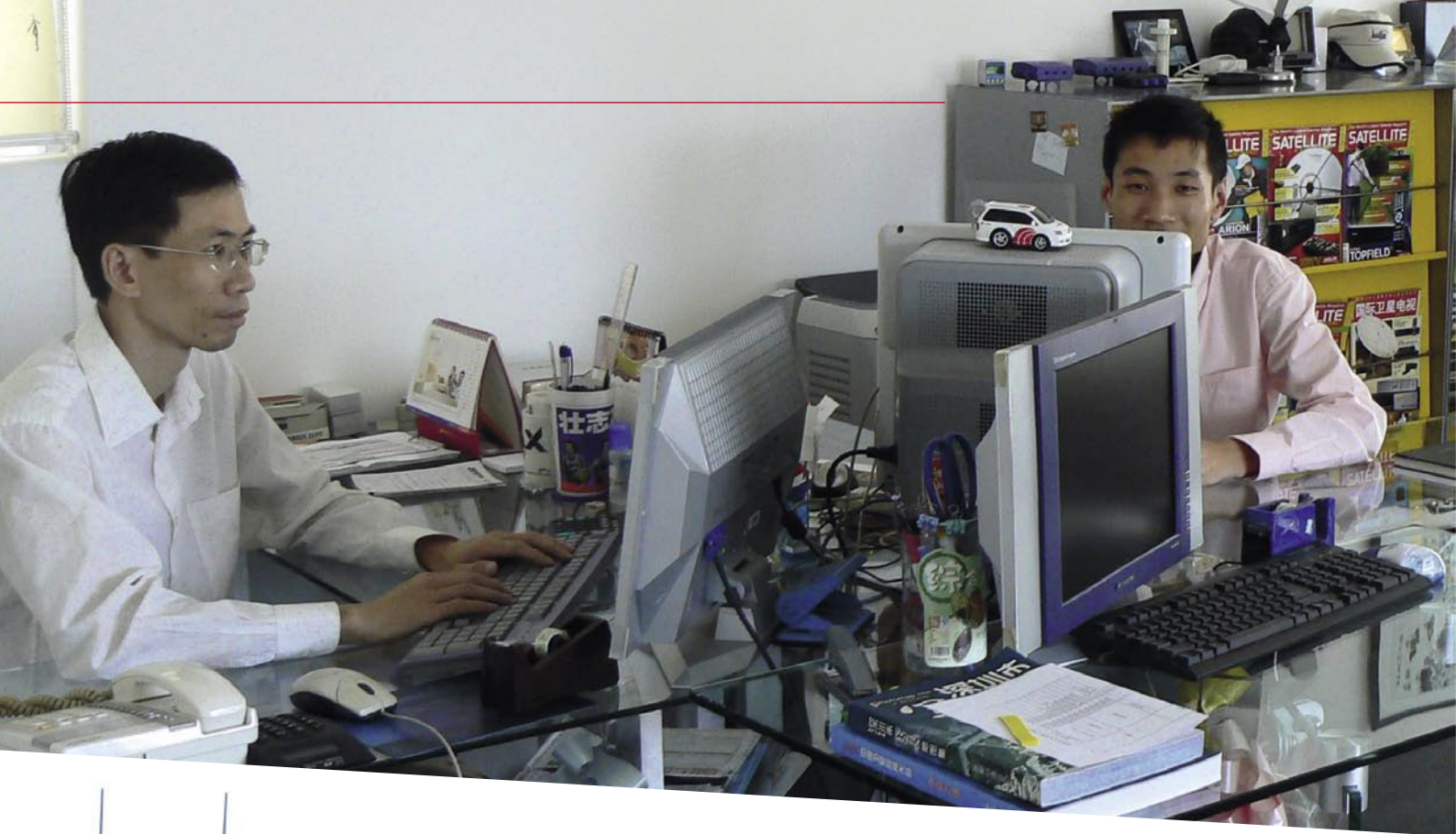


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range at 714 MHz from Russia at the time. From that moment on he was hooked to satellite reception. He soon started to write articles for the weekly 'Electronics Newspaper' which at that time was the only available publication on the topic of satellite

technology. The number of contributions kept rising all the time and his work also involved meeting more and more satellite insiders. Finally, in 1995 he set up his own business: "Together with my wife I founded Aluo-sat in Shenzhen in 1995." Aside from his job as technical journalist he also started to work as a consultant.

Today he employs a staff of seven: "My wife is in charge of accounting, three engineers take care of technical requests, one employee runs a satellite shop in Hong Kong and another person is looking after sales and distribution."

Aluo-sat has also started to distribute products from select quality manufacturers such as Changhong for digital terrestrial TV (DMB-TH), the channels of which are broadcast from Hong Kong but can be received perfectly in Shenzhen as well.

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Available online starting from 27 March 2009

Luo Shi Gang in his office on the top floor of an apartment building in the heart of Shenzhen. There's no way denying that he's the official distributor of TELE-satellite magazine in the region. ■



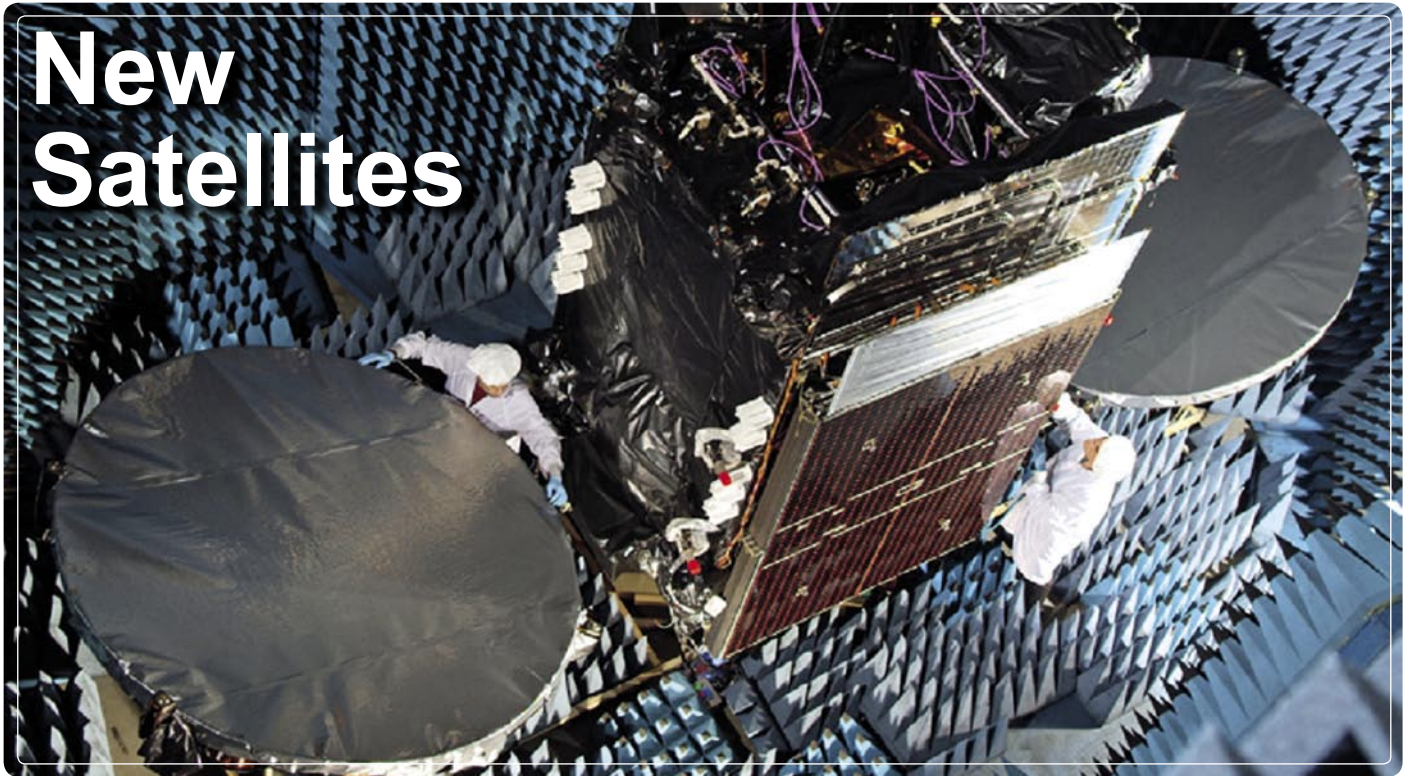
salers," Luo explains his business strategy. "But what I enjoy most is working as a consultant." Luo travels a lot and visits many satellite-related fairs and exhibitions. "This way I can meet important people and enlarge my personal network," Luo states.

Luo is a prominent figure in many regions and segments. "I just love to help when it comes to establishing ties with Chinese satellite businesses."

The high balustrade makes sure the antennas are hidden. Shenzhen's skyline can be seen in the background. ■



New Satellites



Edited by
Sylvain Oscul

EUTELSAT W2A

April-May 2009

This new EUTELSAT Satellite will be positioned at 10 EAST and replace EUTELSAT W1. This Satellite carries 46 Ku and 10 C band transponders and 1 S band. Manufactured by Alcatel and based on a 4000C4 platform, this satellite will cover Europe, North Africa and the Middle East. A second fixed beam will serve southern Africa and Indian Ocean islands. The C-band mission will provide pan-African coverage for broadband and telecommunications services.

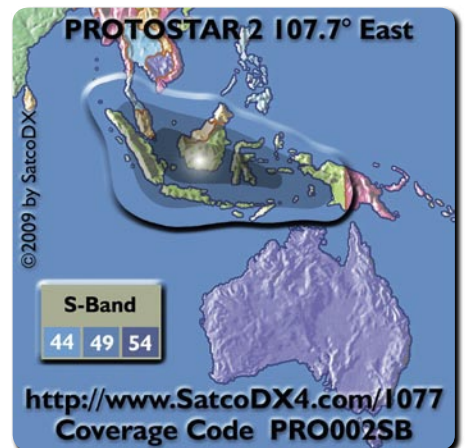
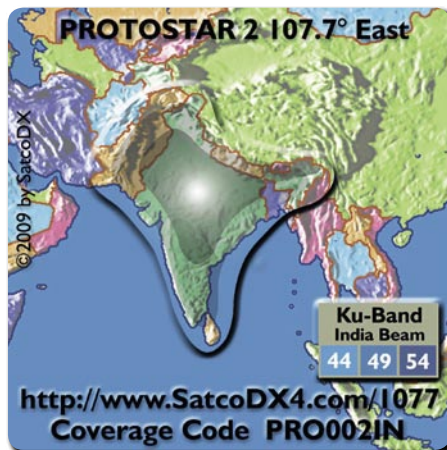
This satellite is also a special joint venture with ASTRA, The S-band (2.0 and 2.2 GHz), which represents a new frequency band for both SES and Eutelsat, provides a set of frequencies optimized for supporting a wireless distribution network for delivering video and other services to mobile devices, including phones.



PROTOSTAR 2

May 2009

This satellite is based on a Boeing Satellite system platform called 601HP, located at 107.7 EAST, this satellite will replace CAKRAWARTA. The satellite is built with 24 KU transponders to cover Philippines, India and Indonesia, and 10 S transponders to cover Indonesia. Launched with a Proton M vehicle, the satellite will be in the air for 15 years.

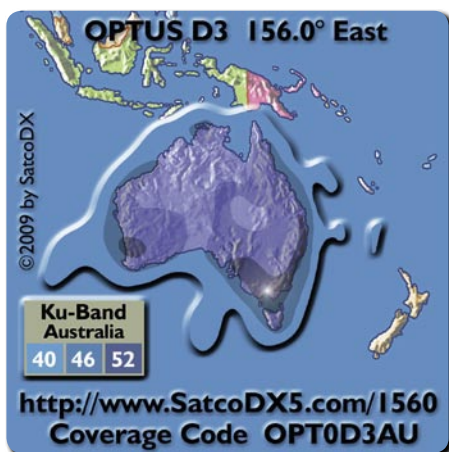




OPTUS D3

May-June 2009

This satellite will be launched simultaneously with HOTBIRD 10, co-located at 156 EAST with OPTUS C1, this Orbital Science Corporation satellite will embed 24 Ku band transponders and cover Australia for 15 years. The satellite will provide direct TV, Internet, telephony and data transmission services for Australia and New Zealand. Orbital Sciences Corporation has constructed the Optus D3 spacecraft using the Star-2 platform.



INTELSAT 15

June 2009

This satellite will replace INTELSAT 709 at 85.2 EAST; launched by a Zenith 3 vehicle, this satellite will embed 22 Ku-BAND Transponders (and 8 for backup). The INTELSAT 15 high power Ku-band payload will provide video and data services for the Middle East, Indian Ocean Regions and Russia. INTELSAT 15 is based on a Orbit-



al's STAR spacecraft bus. Launch with a Zenith 3 vehicle, the satellite will be on the air for 15 years.

THOR 6

June 2009



Thor 6 is based on Thales Alenia Space Spacebus-4000B2 platform and fitted with 36 active Ku-band transponders. The satellite has a capacity of 16 transponders pointed to the European Nordic countries and 20 transponders will be positioned to serve the growing broadcasting demands within Central and Eastern Europe. THOR 6 is the final satellite in Telenor Satellite Broadcasting's replacement program for THOR 2 and THOR 3. THOR 6 will replace THOR 3, which is set to retire in 2010. The satellite will be launched on an Ariane 5 launcher from the Kourou Space Centre in French Guyana and will provide programs for the next 15 years.

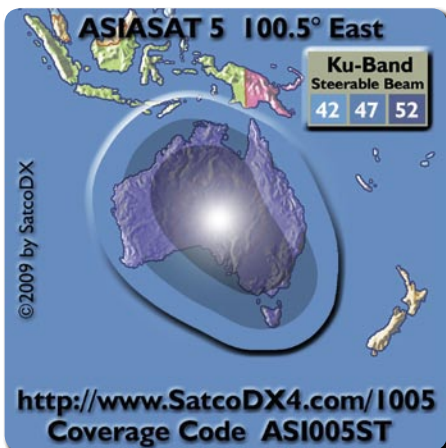
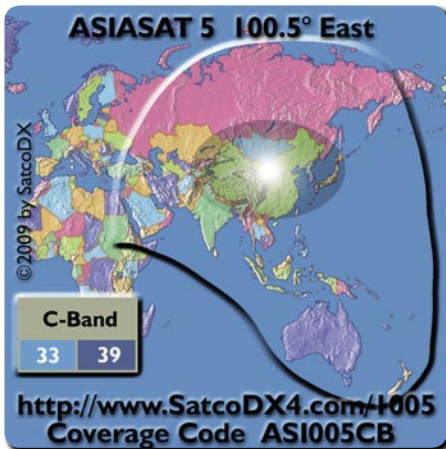


ASIASAT 5

June 2009

ASIASAT 5 C-band footprint will offer an extensive pan-Asian coverage and its high power Ku-band beams will focus on both East and South Asia, with a steerable beam that will cover anywhere within ASIASAT 5 geographic coverage. ASIASAT 5 has a sophisticated Ku-band inter-beam switching which provides great flexibil-

ity of usage in orbit. This Satellite will replace ASIASAT 2 at 100.5 EAST with 22 Transponders in KU Band



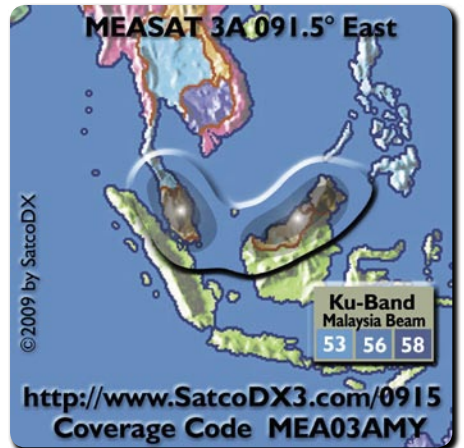
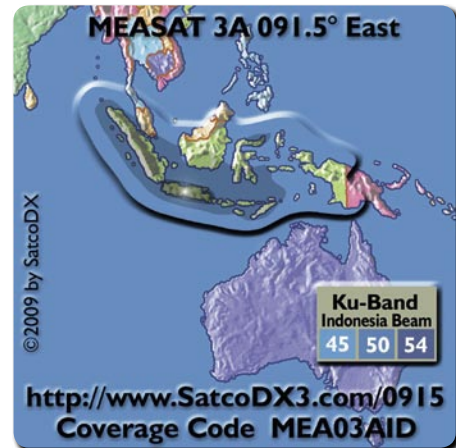
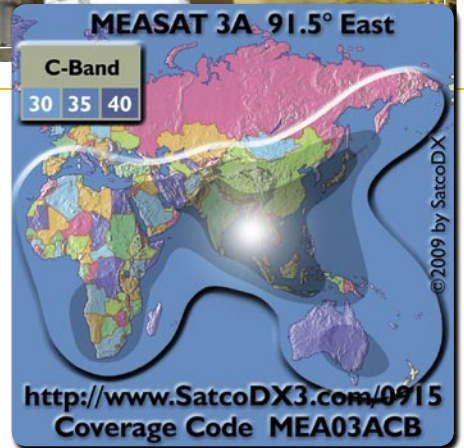
The Ariane 5 ECA for the V177 launch waits on the pad in Launch Zone Three at Europe's Spaceport in Kourou, French Guiana, on 13 August 2007



MEASAT 3A

June 2009

MEASAT 3A has been designed to be co-located with MEASAT 3 at 91.5 EAST. The satellite will provide 12 high-powered C-band transponders providing coverage across a region bounded by Africa and Eastern Europe in the West, through to Japan and Australia in the East, and 12 high-powered Ku band transponders for DTH in Malaysia and Indonesia over a 15 year minimum service life. This satellite will be launched by a Zenith 3.





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Edited by
Branislav Pekic

EUROPE

EUROPE

NSS-9 SATELLITE SUCCESSFULLY LAUNCHED

The NSS-9 satellite was successfully launched onboard an Ariane 5 ECA rocket from the European Spaceport in Kourou, French Guiana, on February 12. NSS-9 was manufactured by Orbital Sciences Corporation and is poised to be the 40th satellite in SES' global fleet. The NSS-9 spacecraft will be positioned at the orbital location of 183 degrees East, a prime connectivity slot for the Pacific Ocean Region. The spacecraft carries 44 active C-band transponders, and features three beams that can interconnect on a transponder-by-transponder basis: a global beam providing coverage of the entire earth visible from 183 degrees East; a West Hemi beam (covering Australia, Indonesia, the Philippines, Japan, China, Korea and the Pacific Islands); and an East Hemi beam (providing coverage and connectivity to the U.S., Hawaii and Polynesia).

ASTRA 1M READY FOR OPERATION

SES Astra has announced that its new Astra 1M satellite has been successfully deployed at its final orbital position at 19.2 degrees East and is ready for commercial operations. The satellite, which was built by EADS Astrium and launched from Baikonur, Kazakhstan, on 5 November 2008 has successfully passed all necessary in-orbit tests of the hardware and broadcasting functionalities on board. With its 36 transponders, Astra 1M will deliver DTH and HDTV services to continental Europe.

170 MILLION HDTV EUROPEAN HOUSEHOLDS BY 2013

According to a report from Euroconsult and NPA, currently 59 million European households are equipped with HD-enabled TV sets. That figure is set to grow to 116 million in 2010, a 51% penetration rate and explode to 220 million in 2018. Driving this adoption is the steady decline in prices for flat screens since 2004, and the imminent inclusion of HDTV capability as a standard feature in flat screens sold throughout Europe. The number of pay-TV networks in Europe offering HD almost tripled in the last two years.

AUSTRIA

TELEKOM AUSTRIA TOPS 63.800 IPTV SUBSCRIBERS

Telekom Austria ended 2008 with 63,800 subscribers for its IPTV service aonTV, compared to 10,930 one year previously. The operator sold 334,800 combo packages during the last two months of 2008, helping to slow net line loss to 98,000 during the period, compared with 250,000 one year previously. aonTV provides 63 TV channels in its basic package for €4.90, with a further 21 thematic channels available for an additional €7.90 per month.

BOSNIA-HERZEGOVINA

BH TELECOM SIGNS IPTV/VOIP DEAL

Bosnian state-owned telecommunications operator BH Telecom has signed a contract today with Slovenian vendor Smart Com for the introduction of an integrated IPTV and VoIP system. The deal will see Smart Com provide the design, delivery and

installation of equipment, as well as offer support and maintenance for a one-year period. The value of the deal is an estimated EUR 2.47 million.

FRANCE

SES ASTRA AND GLOBECAST DISTRIBUTE ORANGE TV

SES ASTRA and Globecast have signed a capacity contract with the French telecommunications operator Orange to distribute its new Orange TV offer via satellite, particularly targeting French homes with no TV coverage over ADSL. Orange TV is part of a triple play offer (TV, telephone, internet) and will be broadcast by the ASTRA satellite system from the prime orbital position 19.2 degrees East, which already serves more than five million French direct-to-home households. GlobeCast will be handling transmission of Orange TV, including digitalisation, MPEG-4 encoding, multiplexing, encryption and uplink services.

FRENCH IPTV HOUSEHOLDS TOP 5.64 MILLION

At the end of the third quarter 2008 there were 5.643 million subscribers to IPTV services in France, according to new figures from the French telecoms regulator ARCEP. This figure represents an increase of 1.6 million or 39% from the same period of 2007. IPTV subscribers accounted for 34.6% of the total number of ADSL subscribers in France at the end of the third quarter of last year (16.299 million), compared to 28.8% of the total (14.09 million) one year previously. France Telecom's Orange TV had around 1.5 million at the end of last September, while competitor Neuf Cegetel had around 850,000 subscribers for its Neuf TV, and rival ISP Alice, owned by the Iliad Group, had around 150,000 at the same point.

GERMANY

GERMANY CLOSES 2008 WITH 536.000 IPTV SUBSCRIBERS

The German Association for IT, Telecommunications and New media (BITKOM) has reported that the number of IPTV subscribers in the country reached 536.000 at end-2008, up from 180.000 a year earlier. Deutsche Telekom aims to double its number of IPTV subscribers to 1 million in 2009, a senior company executive told the "Focus" magazine. Deutsche Telekom accounts for over 90% of the country's IPTV subscribers, having recently announced an excess of half a million customers, while Telecom Italia subsidiary HanseNet has reported an estimated 25.000 subscribers.

ITALY

TISCALI CANCELS IPTV SERVICE

Italian broadband ISP Tiscali has shut down its ADSL-based IPTV service in Italy, with poor subscriber take-up thought to be behind the decision to pull the service. It has not revealed any plans to cancel its UK-based IPTV service, which has attracted investor interest from broadcaster and broadband provider BSkyB. However, in December it was reported that disagreements over the price of the UK unit of Cagliari-based Tiscali had caused BSkyB to withdraw from negotiations.

RUSSIA

PLATFORMAHD BOOSTS CAPACITY ON EUROBIIRD 9

Following on from the successful launch in 2008 of Platforma HD on the Eurobird 9 satellite of Eutelsat Communications, Russian pay-TV operator National Satellite Company is complementing and significantly expanding its offer with a new package called Platforma DV of 20 Standard Digital

channels. Platforma DV launched on February 1 via a second transponder leased by National Satellite Company on Eutelsat's Eurobird 9 satellite which provides extensive reach to satellite homes across the European territory of Russia. Platforma DV costs subscribers R900 (EUR20) a year, while subscribers taking both SD and HD packages will pay R4,200 (EUR93) a year.

ARIANE TO LAUNCH YAMAL SATELLITES

Arianespace has been chosen to launch the two communications satellites, Yamal-401 and Yamal-402 within the scope of a contract between Thales Alenia Space and Russian operator Gazprom. Thales Alenia Space will build these two satellites using Spacebus 4000C3 platforms. They will be orbited by Ariane 5 ECA launchers in the second half of 2011. Yamal-401 will be equipped with 36 Ku-band and 17 C-band transponders and will be positioned at 90 degrees East. For its part, the Yamal-402 will have 46 Ku-band transponders and be positioned at 55 degrees East.

EXPRESS SATELLITES SUCCESSFULLY LAUNCHED

The Express AM-44 and Express MD-1 satellites were successfully launched in February by a Proton-M rocket from the Baikonour Cosmodrome in Kazakhstan. The Express-AM-44 satellite is designed to provide digital TV and radio broadcasting, telephony, data transmission channels, videoconferencing services and Internet access. It carries 16 active transponders in Ku-band, 10 in C-band, and 1 in L-band and will be positioned at 11° West. The Express-MD-1 satellite is designed to provide TV, voice and data transmission and radio broadcasting services over an area spanning Russia and most of the CIS countries from 53° East.

SPAIN

TV3 and IB3 STUDY JOINT IPTV CHANNEL

Spanish TV channels IB3 (available in the Balearic Islands) and TV3 (the public television channel of the Catalan region) have formed an agreement to look into the viability of partnering on delivering a joint channel for IPTV services in the country, according to local news portal DiariDeGirona. The channel would carry content from both organisations. A joint committee made up of representatives from both companies is to take responsibility for moving the project forward.

TURKEY

MEDIA REGULATOR PREPARES GROUND FOR IPTV

Turkey's Radio and Television Supreme Council (RTÜK) has prepared the legal groundwork to regulate the introduction of new broadcasting technologies, including IPTV, DVB-H, DVB-T and DVB-T2. After a meeting in January, RTÜK said that it would give permission for test transmissions by prospective broadcasters wishing to invest in IPTV provided that they comply with certain requirements. Following this decision, prospective IPTV broadcasters should apply to RTÜK for permission to begin testing. Having satisfied preliminary requirements, applicants will be given permission by RTÜK to start their test broadcasts for a period of one year.

UNITED KINGDOM

BBC, ITV AND BT TO DEVELOP IPTV STANDARD

UK terrestrial broadcasters BBC and ITV have teamed up with operator BT to develop and on-demand service that would for the first time in the U.K. offer free-to-air broadband content from TV sets. The three parties have signed a memorandum of understanding and

invited other U.K. public service broadcasters and ISPs to join the project, which could be as revolutionary as the hugely successful U.K. digital terrestrial platform Freeview. The new service would require a set-top box connected to an Ethernet connection enabling audiences to access shows via broadband on their TV sets.

VIRGIN MEDIA TO LAUNCH FOUR HDTV CHANNELS

Cable company Virgin Media has launched a 50 Mbps broadband service in the UK and announced plans to launch four high-definition channels in 2009. The fibre optic cable network will give UK customers nearly nine times the average headline broadband speed. CEO Neil Berkett said Virgin Media would launch four new HD channels in March.

AVANTI TO LAUNCH SATELLITE

Avanti Communications, which plans to launch its first satellite in the final quarter of this year, has recruited 28 wholesale customers around Europe who will sell on broadband services. According to chairman, John Brackenbury, the company hopes to benefit from government initiatives in both the UK and Europe, where the European Commission last week announced further funding to help the 30 per cent of EU homes that have no access to high speed internet services. Avanti already supplies some customers via leased satellite capacity.

UK LEADS HDTV TAKE-UP

In Europe the UK leads HDTV take-up largely as a result of Sky's 800,000 HD subscribers. Freesat, the free-to-air satellite service offers a much smaller choice of HD programming with BBC HD and ITV HD, but has around 200,000 users which are growing rapidly. Virgin Media with around 400,000 subscribers to its V+ box, with access to the BBC HD channel takes the total in the UK to around 1.5 million.

HD TERRESTRIAL TESTS LAUNCH IN LONDON

HD test transmissions launched in February via London's Crystal Palace transmitter, equipped with a modulator using the new DVB-T2 transmission standard which was provided by Enensys. Last September, the BBC successfully performed test transmissions in the UK to receive high def pictures compliant to the DVB-T2 standard using a real-time demodulator.

NORTH AMERICA

CANADA

SASKTEL TO DEPLOY MARINER'S IPTV PLATFORM

SaskTel is commercially deploying xVu. Mariner's IPTV Service Assurance platform. xVu will be deployed to SaskTel's over 70,000 IPTV subscribers to provide continuous monitoring and real time feedback of customer's Quality of Experience. The platform will allow SaskTel to proactively manage its IPTV service quality, and to identify and resolve issues often before the customer even realizes there is a problem.

BELL TV OFFERS NEW BOXES FOR HD SUBSCRIBERS

Bell TV subscribers with a first generation HD DTH satellite receiver were sent a letter this week notifying them their old ExpressVu 6000 HD receivers would no longer work after April 1. Bell has offered to exchange the old HD receivers with the company's new model 6131 HD receiver free of charge. In April, Bell will roll out a new signal modulation scheme called 8PSK which will allow Bell TV to transmit more HD satellite signals without using more bandwidth.

UNITED STATES

RAINBOW DROPS VOOM HD SERVICE

Cable operator Rainbow Media Holdings is dropping the Voom-branded suite of 15 HD channels, after losing domestic carriage on the satellite platform Dish Network. Dish dropped the Voom channels in May 2007, reportedly after a contract dispute, leaving just Rainbow parent Cablevision Systems as the channels' only US platform. Rainbow has since filed a lawsuit against Dish for breach of contract but has now axed the channels while it focuses on the US\$1 billion legal action.

ZCOM NETWORKS TO INTEGRATE IPTV WITH SATELLITE

In order to link its IPTV Broadcasting with Satellite, Zcom Networks has commenced discussion with Globecast for the transport of signals via satellite and fiber. Harnessing the power of IP, Zcom will capitalize on its broadcast expertise from program origination to play out and from assembling to reformatting and encoding utilizing the broadband IP connection.

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DISH NETWORK INTRODUCES SLINGBOX TECHNOLOGY

Satellite TV provider Dish Network Corp unveiled the new Vip 922 DVR box in January that allows people watch to their favorite TV shows on any Internet-enabled device. The Slingbox is a device that lets people watch cable and satellite programming from a computer or mobile phone with a broadband Internet connection. In addition to TV sets, people can watch their recorded TV programs and sports events on their desktops at home, their laptops on the road, their smart phones, iPhones, Blackberry, and more.

NEULION LAUNCHES NEW IPTV HD BOX

NeuLion has introduced the IPTV HD TV Box delivering HD programming in 720p and 1080i, providing adaptive streaming in HD without buffering. NeuLion now offers HD streaming services of live TV channels, live events and VOD over the Internet directly to the television. NeuLion's existing IPTV HD PC browser service provides HD quality programming of live channels, sports, entertainment events and VOD in up to a 1080i format to its Network Partners across the globe.

VERIZON FIOS WITH 1.9 MILLION IPTV SUBSCRIBERS

Verizon FiOS TV customers now have a total of 105 HD channels available, and over 1,400 HD VOD titles, which are offered each month. Verizon FiOS is available for sale to more than 8.2 million homes and small businesses in 14 states. The company added 303,000 FiOS TV subscribers in the fourth quarter and almost 1 million in 2008, bringing the total to 1.9 million out of 9.2 million homes that

have access to the service. In contrast, AT&T is hoping to have 1 million subscribers to its rival IPTV offering, U-verse, by the end of the year.

TIME WARNER WITH 100 HD CHANNEL IN NY

Time Warner Cable now offers 100 High-Definition channels in New York City. The HD lineup in New York includes an HD Movies On Demand feature and StartOver, which enables customers to restart a program in progress from the beginning. Time Warner offers roughly 60 HD channels free with its digital cable package. The remaining channels must be purchased with premium movie channels or other programming packages.

17 MILLION HDTV HOUSEHOLDS DO NOT WATCH HD

17 million households with HDTVs installed do not watch HD programming, according to a new study from research organization In-Stat. Last year, there were 39 million households in the United States that owned HDTVs, of which 22 million are considered HDTV households or those owning HD-capable sets and receiving and watching HD programming. According to In-Stat, last year saw a 40 percent uptake in the number of households choosing to receive HD programming.

SPACE SYSTEMS/LORAL TO BUILD INTELSAT 17 SATELLITE

Space Systems/Loral (SS/L) has finalized a previously announced satellite contract award to provide a new spacecraft to Intelsat. Intelsat 17 is a C- and Ku-band spacecraft which is to be available for launch in 2010 and will be located at 66 degrees East, where it will replace Intelsat 704.

LATIN AMERICA

ARGENTINA

TELEFONICA LAUNCHES VOD TESTS

Telefonica Argentina has started testing a VOD system over the IPTV network with 100 clients in Buenos Aires. It includes movies, children's programmes, weather information and karaoke. Clients are able to access a content library on either their computer or TV set, via the installation of a modem and a set-top box. A launch date has yet to be named.

TELPIN LAUNCHES IPTV SERVICE

Telecommunications operator Cooperativa de Telefonos de Pinamar (Telpin) now offers IPTV services in the country. Telpin is operating an internet television portal called Telpin TV, offering VOD content such as local news, music and general interest shows. Although telecom operators are currently prohibited from entering the pay-TV sector, they can launch VOD services until the legislation is modified.

COLOMBIA

UNE ENDS 2008 WITH 30.000 IPTV SUBSCRIBERS

Telecommunications operator UNE EPM ended 2008 with 30.000 subscribers for its IPTV service, one year after launch. It is now aiming to reach around 150.000 by the end of this year. Une is using Orca Interactive middleware, Verimatrix CAS and set-top boxes from Sagem, integrated by local supplier Grupo Unión. UNE is now focused on expanding the service into other regions of



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Galaxy 19 Ku-Band (formerly Galaxy 25, Telstar 5 and IA 5)
Transponder: 23
Polarity: Vertical (V)
Frequency: 12.115 MHz
Symbol Rate: 22.425
FEC: 3/4
Audio PID 1794 E



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Colombia, including Bucaramanga and Cartagena, as well as focusing on the capital of Bogota.

NETHERLAND ANTILLES

UTS CURACAO DELIVERS MORE HD WITH RGB NETWORKS

United Telecommunication Services (UTS), the parent company of TDS, the wireless cable service provider servicing the Dutch islands of Curaçao and Bonaire, has deployed RGB's Broadcast Network Processor (BNP) as a key element of its next-generation video delivery network. Working with Divitel, RGB's system integration partner in the Netherlands, UTS has migrated its TDS system to a fully digital, IP-based platform. RGB's BNP, offering high density grooming, statistical multiplexing and transrating, enables UTS to offer their subscribers in Curaçao and Bonaire a number of new services, including significantly more high definition (HD) channels at extremely high quality.

URUGUAY

ANTEL TO LAUNCH IPTV

Telecommunications operator Antel will launch IPTV services during the first quarter of 2009, according to local media reports. Antel's vice president, Gonzalo Perera, said the company has been working on the launch and already has the necessary equipment to deliver the service, which would be the country's first IPTV offering.

ASIA

MIDDLE EAST SATELLITE REVENUES TOP US\$ 752 MILLION

The Middle East and North Africa (MENA) has become one of the most dynamic emerging

markets for satellite and broadcast use, according to a recent study by Euroconsult and The London Satellite Exchange. Transponder demand throughout MENA has risen 12 per cent per year for the last five years. Commercial satellite-lease revenues have grown by 17 per cent per year on average since 2003, reaching US\$ 752 million in 2007. The report states that 42 per cent of Ku-band satellite usage within the MENA region was from TV and radio broadcasts, while the remainder was made up from voice and data traffic.

JAPAN HDTV LEADER IN ASIA

Of the 50 million total TV households in Japan, almost 17 million have HDTV, according to a study by IMS Research. In contrast, there are 400 million total TV households in China, but HDTV is only just beginning to be rolled out. Japan's uptake of HDTV has been driven by Japan Broadcasting Corp. (NHK), the country's sole public broadcaster. NHK has introduced HD via free satellite, thus creating a demand for the programming, although NHK also delivers digital terrestrial with additional HD programming as a pay service. China's uptake of HDTV may be driven more by cable. The country's primary video provider is China Central TV (CCTV), the state-owned broadcaster, which is slowly transitioning from analog to digital terrestrial. There is no direct broadcast satellite (DBS) operator in the country.

SMARTSAT FIRST PRIVATE SATELLITE COMPANY

An alliance of Jordanian and Kuwaiti companies announced in February the launch of a USD 500 million firm, which will be the MENA region's first private company specialised in the satellite industry. The new UAE-based company has been named SmartSat and will be headquartered in Dubai Studio City. SmartSat will offer

its new services by launching the Arab World's first private satellite that will serve the MENA region. The company will thus contribute in the development of the quality of services for the region's internet service providers (ISPs), GSM providers, broadband technology solutions providers, television stations, and ministries of communication, military agencies and companies dealing with data systems among others.

ASTRIUM AND THALES TO DELIVER NEW ARABSAT SATELLITES

Arabsat has selected the consortium of Astrium and Thales Alenia Space to build and deliver in orbit two new satellites, Arabsat 5C and Arabsat 6B. Astrium will supply the Eurostar E3000 platforms and integrate the satellites. Thales Alenia Space will design and build the communications payloads. Arabsat-5C will feature 26 active transponders in C-band and 12 in Ka-band at the position 20°E. Arabsat-6B will be co-located with the rest of Arabsat's BADR constellation at its 26° East "hot-spot" and will feature 36 active transponders in Ku-band.

CHINA

ZHUJIANG DIGITAL OPTS FOR MICROSOFT MEDIAROOM

Guangzhou Digital Media Group has formally launched Zhujiang Digital, a connected TV service powered by the Microsoft Mediaroom IPTV platform. This is the first Mediaroom-enabled TV service to launch in China and the first time Mediaroom has been delivered over a cable network anywhere in the world. The new service, available to residents in the Guangzhou region of China, also includes the first deployment of the Mediaroom Anytime feature set, which will let subscribers access previously

aired shows from their Interactive Program Guide and immediately restart currently airing programs without any preplanning or prior DVR.

IPTV SUBSCRIBERS UP 100 PERCENT IN 2008

According to CCID Consulting, China's number of IPTV subscribers grew rapidly, up 100% year-on-year, thanks mostly to China Telecom's vigorous promotion. Because of Shanghai Telecom's free promotion, its number of subscribers saw rapid growth.

INDIA

BHARTI AIRTEL LAUNCHES IPTV SERVICES

Bharti Airtel has become the first private operator to launch its IPTV services under the brand—Airtel Digital Television. The one-time activation fee is Rs 3999, with two packages available: Rs 999 per month for 135 channels, a broadband connection and a landline connection, while the second package costs Rs 599 and comes bundled with 117 channels and a broadband connection.

BSNL ANNOUNCES INTERACTIVE TV ON IPTV

BSNL has announced the nation-wide launch of interactive, personalized TV and video services for its customers in collaboration with Smart Dig. These services, which would be offered via the IPTV platform or cable TV on broadband, would enable users to watch programmes as per their convenience from over 140 TV channels. BSNL will also offer customers an extensive movie library with Hollywood and Bollywood titles at no extra cost, the company said. BSNL has around 38 million landline users and hopes that one-fourth of them will subscribe to the IPTV platform.

INDONESIA

RUSSIAN COMPANY TO BUILD TELKOM 3 SATELLITE

PT Telekomunikasi Indonesia, is close to signing a deal with a Russian firm on a third satellite project, called Telkom 3, according to local media reports. The Russian company Information Satellite Systems, or Reshetnev, had won the tender to build and launch the Telkom 3 satellite in mid-2011, at an undisclosed cost of less than US\$ 200 million. The new satellite, which will have 18 transponders, will replace the Telkom 2 satellite and be used for the TelkomVision pay-TV service, data and Internet transmissions, and applications for earth observation.

MOROCCO

MAROC TELECOM WITH 10.000 IPTV SUBSCRIBERS

Maroc Telecom ended 2008 with 10.000 subscribers for its IPTV services, while its fixed-line subscriber base fell 2.8% year-on-year to reach 1.299 million lines. The number of fixed Internet access lines totalled 482.000 at the end of last year, up 1.3% from end-2007. Maroc Telecom introduced its IPTV service in August 2006, based on a platform supplied by Huawei.

THE PHILIPPINES

PLDT TO LAUNCH DTH SERVICE

The Philippine Long Distance Telephone (PLDT) Group has nearly completed the preparations for the forthcoming launch of its DTH satellite-TV

service. The group has allocated about P700 million to jumpstart its DTH satellite TV project in the country. It has tapped SES New Skies to provide satellite transponders on the NSS-11 satellite. The DTH service will initially offer 24 channels.

SOUTH KOREA

LG DACOM LAUNCHES IPTV SERVICE

LG Dacom commercially launched its IPTV service, myLGtv, in Seoul and the surrounding area in January. The service seeks to differentiate itself from its bigger rivals using high video quality and user-friendly interfaces. Viewers are able to order products on home shopping channels and will be able to search the internet while watching live television. LG Dacom offers 24 IPTV channels, including four terrestrial channels such as KBS, MBC, SBS and EBS, and plans to increase the number to 60 by the end of March. myLGtv offers English and Korean subtitles for movies, documentaries and children's programs on its VOD channel. Viewers are also able to adjust the playback speed of videos.

SK BROADBAND SEEKS IPTV LEADERSHIP SPOT

SK Broadband is seeking to reclaim its leadership in the IPTV market after it launched commercial IPTV services in January. SK introduced preliminary IPTV services in 2006, but ceded the top spot to rival KT. SK Telecom acquired the No. 2 fixed line provider SK Broadband last year, giving the firm much needed clout. To help sell its IPTV service, SK Broadband has bundled its IPTV other fixed-line services with SK Telecom's mobile services to improve price competitiveness. SK Broadband will also expand its customer choice

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CHINA MARKET IS OPENING!

by offering content owned by SK Group, which has several media affiliates. KT's IPTV service, dubbed Mega TV, has 800.000 subscribers, while SK Broadband's Broad & TV has 780.000 and LG Dacom's myLgtv has 65.000.

TAIWAN

CHT MOD ENDS 2008 WITH 600.000 IPTV SUBSCRIBERS

Taiwan's largest telecommunications company, Chunghwa Telecom (CHT), closed 2008 with over 600.000 subscribers for its IPTV service, which launched in 2005. CHT's MOD is provided via its ADSL network, subscribers are provided with rental set-top boxes to select and receive programs. In addition to broadcast TV channels, CHT MOD offers on-demand services for movies, TV series and anime titles.

VIETNAM

VTC LAUNCHES HDTV CHANNELS VIA SATELLITE

The Viet Nam Multimedia Corporation (VTC) launched the second generation digital television receiver and the first ever HDTV channels in Vietnam during January. All channels are broadcast through the national satellite VINASAT-1, which was launched in April 2008. The new product services, which were researched and produced by VTC, will serve the demands of Vietnamese people nationwide with 40 special digital television channels, including 8-HDTV channels and 32 SDTV channels. The satellite's footprint covers Viet Nam, Laos, East Asia, India and Australia. HDTV receivers are now sold on the domestic market for over VND3.5 million (US\$ 205.8) each.

AUSTRALIA & PACIFIC

AUSTRALIA

MYKP TO TRIAL IPTV SERVICES

Sydney-based ISP myKP plans to start trialling IPTV services, according to local media reports, quoting company director George Kaloudis. No planned start date was given for the trials, but Kaloudis added that the ISP is "in discussions with several international content suppliers working through licensing agreements". The company is expected to focus particularly on rural areas which lack a variety of media outlets.

NEW ZEALAND

SKY SELLS 54.000 HD BOXES IN 2008

Sky Television surpassed its sales target for the MySky HDi high definition satellite TV receivers. Although the company projected to sell around 40.000 units it ended 2008 by selling 54.000, putting it neck and neck with free, state-funded rival Freeview, which boasts sales of just over 52.500. As a result, Sky is well on track to reach the 80,000 first year sales projection, if not exceed it. The company attributes the success of the HD launch to the penetration of HD capable sets, competition with Freeview raising HD awareness and the recession keeping people at home.

AFRICA

INTELSAT TO LAUNCH NEW DAWN IN 2010

A US\$ 250 million telecommunications satellite dedicated to supplying telecommunications services to Africa is to be built over the next two years and launched in the fourth quarter of 2010. Over half of the capacity of the new satellite has already been sold to major clients, including Gateway Communications, Gilat Satcom, Vodacom and Zain Nigeria. Named New Dawn, the satellite will be operated by Intelsat in a joint venture with a consortium of African investors, led by South Africa's Convergence Partners and Altirah Telecoms. New Dawn will be equipped with 52 equivalent 36 MHz transponder units, divided into 28 C-Band and 24 Ku-Band units. Africa's first dedicated telecommunications satellite, Nigerian owned and operated NigComSat-1 in November 2008 after only 22 months in orbit.

WORLD

HDTV INTEROPERABILITY TESTS TO START IN JUNE

The World Broadcasting Unions International Satellite Operations Group (WBU-ISOG) and 11 vendors of HDTV MPEG-4 decoders/encoders have agreed to begin interoperability testing to ensure that HD video feeds are transmitted seamlessly. Formal tests will begin on 8 June 2009 and will be conducted by Telesat in Canada. The 11 vendors are ATEME, Comtech TV, Evertz Microsystems, Fujitsu, Harmonic, International DataCasting, NTT Electronics Corporation, Scopus Video Networks, Sencore, Tandberg Television and Thomson.



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Product Informations @ YouTube

<http://www.nanoxx.info>

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- NanoXX 9300C (Cable Receiver)
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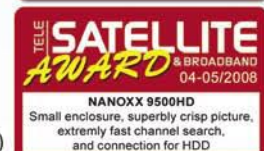
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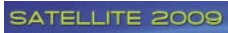
- **21 - 23 March: CCBN 2009**

The 17th China Content Broadcasting Network Exhibition
China International Exhibition Center, Beijing, China
www.ccbn.tv



- **25 - 27 March 2009: Satellite 2009**

Exhibition for Satellite Enabled Communication
Walter E. Washington Convention Center, Washington, USA
www.satellite2009.com



- **25 - 27 May 2009: MECOM 2009**

Middle East Communications Exhibition, Forum, TV
Abu Dhabi National Exhibition Centre, Abu Dhabi, UAE
www.mecomexpo.com



- **26 - 28 May 2009: ANGACABLE 2009**

Tradefair for Cable, Broadband and Satellite
Koelnmesse, Cologne, Germany
www.angacable.com



- **16 - 19 June 2009: CommunicAsia 2009**

20th International Communications and Information
Technology Exhibition & Conference
Singapore Expo, 1 Expo Drive, Singapore 486150
www.communicasia.com

- **26 - 28 August 2009: SET 2009**

18th Broadcast & Cable International Fair
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- **11 - 15 September 2009: IBC 2009**

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7th Eastern Europe Exhibition and Conference in
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www.eebc.net.ua



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Editorial Deadlines, Magazine Publishing Dates

<i>Number</i>	<i>Issue</i>	<i>Deadline</i>	<i>Hardcopies</i>	<i>Available Online</i>
#211	06/2009	3 April 2009	15 May 2009	29 May 2009
#212	08/2009	5 June 2009	17 July 2009	31 July 2009
#213	10/2009	7 August 2009	18 September 2009	2 October 2009
#214	12/2009	2 October 2009	13 November 2009	18 December 2009
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Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
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● 11.449 H Ora News 27500	11.596 H Equidia 30000	11.534 H TELE REUNION 30000	11.797 H PREMIERE 2 27500	12.012 V TELE MELODY 27500	12.574 H NL-Radio 1 22000	12.090 H TPS STAR 27500
● 11.449 H RTV Z1 27500	11.596 H Eurosport 30000	11.534 H TEMPO/FRANCE O 30000	11.797 H PREMIERE 3 27500	12.012 V TRACE TV 27500	12.574 H NL-Radio 5 22000	12.090 V W9 27500
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40 AS 10	11.596 H ZEE TV 30000	11.575 H TEST 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 H MTVNHD 27500	12.129 V A LA CARTE 3 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V Boomerang 27500	12.129 V A LA CARTE 4 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V Cartoon Network 27500	12.129 V A LA CARTE 5 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TCM 27500	12.129 V A LA CARTE 6 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 7 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 8 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 9 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 10 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 11 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 12 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 13 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 14 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 15 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 16 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 17 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 18 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 19 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 20 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 21 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 22 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 23 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 24 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 25 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 26 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 27 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 28 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 29 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 30 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 31 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 32 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 33 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 34 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 35 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 36 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 37 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 38 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 39 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 40 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 41 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 42 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 43 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 44 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 45 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 46 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 47 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 48 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 49 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 50 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 51 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 52 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 53 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 54 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 55 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 56 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 57 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 58 27500
40 AS 10	11.596 H ZEE TV 30000	11.575 H TV 30000	11.876 H BOOMERANG (a/P) 27500	12.305 H Zone Reality 27500	11.778 V TVBS 27500	12.129 V A LA CARTE 59 27500
40 AS 10						

Satellite Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
12.207 H BBCW SERVICE	27500	12.265 H WDR 2	27500	12.563 H Spass im TV	22000	13.118 V DISNEY CH. #1	22000	11.635 H Euro Hits	28500	11.635 H Heavy Metal	28500
12.207 H BEUR FM	27500	12.265 H WDR 2 Klassik	27500	12.563 H Telehit	22000	11.478 V PLANETV	22000	11.635 H Bayern 4	28500	11.635 H Klassik Hits	28500
12.207 H BFM	27500	12.265 H WDR 3	27500	12.563 H TW1	22000	11.318 V JETIX	22000	11.635 H Klassischer Jazz	28500	11.635 H Love Songs	28500
12.207 H CANALSAT RADIOS	27500	12.265 H WDR 4	27500	12.563 H Uchi TV	22000	11.318 V SONY TV	22000	11.635 H Live Dancers	28500	11.635 H New Age	28500
12.207 H CHERIE FM	27500	12.265 H WDR 5	27500	12.563 H Uchi's Schwermusik	22000	11.478 V INCLINE NT	22000	11.635 H Perfect Dinner Party	28500	11.635 H Pop	28500
12.207 H CONTACT FM	27500	12.265 H WDR Event	27500	12.563 H WDR 6	22000	11.478 V TEREALITE	22000	11.635 H R & B Hip-Hop	28500	11.635 H Reggae	28500
12.207 H COULEUR 3	27500	12.265 H WDR FunKhaus Europa	27500	12.563 H Weiber TV	22000	11.478 V CANAL EVENEMENT	22000	11.635 H Rock Anthems	28500	11.635 H Rock'n Roll Oldies	28500
12.207 H EUROPE 1	27500	12.265 H YDF FM	27500	12.563 H OE2	22000	11.478 V GIRONDIS TV	22000	11.635 H Synchronie	28500	11.635 H Spanish Rock	28500
12.207 H FP	27500	12.265 H XXL	27500	12.563 H OE1	22000	11.478 V INCLINE NT	22000	11.635 H UK Hits	28500	11.635 H TV 3	28500
12.207 H FRANCE BLEU HD	27500	12.265 H ABN METEORS	27500	12.563 H OE2	22000	11.478 V PLAYIN TV	22000	11.635 H Bayern 2	28500	11.635 H Bayern 3	28500
12.207 H FRANCE CULTURE	27500	12.265 H AB1	27500	12.563 H OE1	22000	11.478 V TEREALITE	22000	11.635 H Bremen Vier	28500	11.635 H Bremen Vier	28500
12.207 H FRANCE INFO	27500	12.265 H ACTION	27500	12.563 H OE2 K	22000	11.478 V LCP	22000	11.635 H VRZ	28500	11.635 H VRZ	28500
12.207 H FRANCE INTER	27500	12.265 H ANIMAX	27500	12.563 H OE2 N	22000	11.478 V PLANETV	22000	11.635 H SWR 1	28500	11.635 H SWR 2	28500
12.207 H FRANCE MUSIQUE	27500	12.265 H ANIMAX	27500	12.563 H OE2 O	22000	11.478 V PLANETV	22000	11.635 H SWR 3	28500	11.635 H SWR 3	28500
12.207 H JAZZ RADIO	27500	12.265 H CINE POLAR	27500	12.563 H OE2 S	22000	11.478 V PLANETV	22000	11.635 H SWR 4	28500	11.635 H SWR 4	28500
12.207 H LE MOUV'	27500	12.265 H DORCEL TV	27500	12.563 H OE2 St	22000	11.478 V PLANETV	22000	11.635 H SWR 5	28500	11.635 H SWR 5	28500
12.207 H MO DUALIYA	27500	12.265 H ENCYCLOPEDIA	27500	12.563 H OE2 T	22000	11.478 V PLANETV	22000	11.635 H SWR 6	28500	11.635 H SWR 6	28500
12.207 H MDR 1	27500	12.265 H ESCAPAD	27500	12.563 H OE2 U	22000	11.478 V PLANETV	22000	11.635 H SWR 7	28500	11.635 H SWR 7	28500
12.207 H NOSTALGIE	27500	12.265 H MANGAS	27500	12.563 H OE2 V	22000	11.478 V PLANETV	22000	11.635 H SWR 8	28500	11.635 H SWR 8	28500
12.207 H NRJ	27500	12.265 H NCI	27500	12.563 H OE2 W	22000	11.478 V PLANETV	22000	11.635 H SWR 9	28500	11.635 H SWR 9	28500
12.207 H OUI FM	27500	12.265 H ORF 1	27500	12.563 H OE2 X	22000	11.478 V PLANETV	22000	11.635 H SWR 10	28500	11.635 H SWR 10	28500
12.207 H PARENTHÈSE RADIO	27500	12.265 H ORF 2	27500	12.563 H OE2 Y	22000	11.478 V PLANETV	22000	11.635 H SWR 11	28500	11.635 H SWR 11	28500
12.207 H RADIO 1	27500	12.265 H ORF 3	27500	12.563 H OE2 Z	22000	11.478 V PLANETV	22000	11.635 H SWR 12	28500	11.635 H SWR 12	28500
12.207 H RADIO 2	27500	12.265 H ORF 4	27500	12.563 H OE2 AA	22000	11.478 V PLANETV	22000	11.635 H SWR 13	28500	11.635 H SWR 13	28500
12.207 H RADIO 3	27500	12.265 H ORF 5	27500	12.563 H OE2 AB	22000	11.478 V PLANETV	22000	11.635 H SWR 14	28500	11.635 H SWR 14	28500
12.207 H RADIO ALPHA	27500	12.265 H ORF 6	27500	12.563 H OE2 AC	22000	11.478 V PLANETV	22000	11.635 H SWR 15	28500	11.635 H SWR 15	28500
12.207 H RADIO COURTOIS	27500	12.265 H ORF 7	27500	12.563 H OE2 AD	22000	11.478 V PLANETV	22000	11.635 H SWR 16	28500	11.635 H SWR 16	28500
12.207 H RADIO FG	27500	12.265 H ORF 8	27500	12.563 H OE2 AE	22000	11.478 V PLANETV	22000	11.635 H SWR 17	28500	11.635 H SWR 17	28500
12.207 H RADIO FRANCE	27500	12.265 H ORF 9	27500	12.563 H OE2 AF	22000	11.478 V PLANETV	22000	11.635 H SWR 18	28500	11.635 H SWR 18	28500
12.207 H RADIO INT	27500	12.265 H ORF 10	27500	12.563 H OE2 AG	22000	11.478 V PLANETV	22000	11.635 H SWR 19	28500	11.635 H SWR 19	28500
12.207 H RADIO NET 2	27500	12.265 H ORF 11	27500	12.563 H OE2 AH	22000	11.478 V PLANETV	22000	11.635 H SWR 20	28500	11.635 H SWR 20	28500
12.207 H RADIO LATINA	27500	12.265 H ORF 12	27500	12.563 H OE2 AI	22000	11.478 V PLANETV	22000	11.635 H SWR 21	28500	11.635 H SWR 21	28500
12.207 H RADIO NOTRE-DAME	27500	12.265 H ORF 13	27500	12.563 H OE2 AJ	22000	11.478 V PLANETV	22000	11.635 H SWR 22	28500	11.635 H SWR 22	28500
12.207 H RADIO NOVA	27500	12.265 H ORF 14	27500	12.563 H OE2 AK	22000	11.478 V PLANETV	22000	11.635 H SWR 23	28500	11.635 H SWR 23	28500
12.207 H RADIO 2	27500	12.265 H ORF 15	27500	12.563 H OE2 AL	22000	11.478 V PLANETV	22000	11.635 H SWR 24	28500	11.635 H SWR 24	28500
12.207 H RADIO 3	27500	12.265 H ORF 16	27500	12.563 H OE2 AM	22000	11.478 V PLANETV	22000	11.635 H SWR 25	28500	11.635 H SWR 25	28500
12.207 H RADIO 4	27500	12.265 H ORF 17	27500	12.563 H OE2 AN	22000	11.478 V PLANETV	22000	11.635 H SWR 26	28500	11.635 H SWR 26	28500
12.207 H RADIO 5	27500	12.265 H ORF 18	27500	12.563 H OE2 AO	22000	11.478 V PLANETV	22000	11.635 H SWR 27	28500	11.635 H SWR 27	28500
12.207 H RADIO 6	27500	12.265 H ORF 19	27500	12.563 H OE2 AP	22000	11.478 V PLANETV	22000	11.635 H SWR 28	28500	11.635 H SWR 28	28500
12.207 H RADIO 7	27500	12.265 H ORF 20	27500	12.563 H OE2 AQ	22000	11.478 V PLANETV	22000	11.635 H SWR 29	28500	11.635 H SWR 29	28500
12.207 H RADIO 8	27500	12.265 H ORF 21	27500	12.563 H OE2 AR	22000	11.478 V PLANETV	22000	11.635 H SWR 30	28500	11.635 H SWR 30	28500
12.207 H RADIO 9	27500	12.265 H ORF 22	27500	12.563 H OE2 AS	22000	11.478 V PLANETV	22000	11.635 H SWR 31	28500	11.635 H SWR 31	28500
12.207 H RADIO 10	27500	12.265 H ORF 23	27500	12.563 H OE2 AT	22000	11.478 V PLANETV	22000	11.635 H SWR 32	28500	11.635 H SWR 32	28500
12.207 H RADIO 11	27500	12.265 H ORF 24	27500	12.563 H OE2 AU	22000	11.478 V PLANETV	22000	11.635 H SWR 33	28500	11.635 H SWR 33	28500
12.207 H RADIO 12	27500	12.265 H ORF 25	27500	12.563 H OE2 AV	22000	11.478 V PLANETV	22000	11.635 H SWR 34	28500	11.635 H SWR 34	28500
12.207 H RADIO 13	27500	12.265 H ORF 26	27500	12.563 H OE2 AW	22000	11.478 V PLANETV	22000	11.635 H SWR 35	28500	11.635 H SWR 35	28500
12.207 H RADIO 14	27500	12.265 H ORF 27	27500	12.563 H OE2 AX	22000	11.478 V PLANETV	22000	11.635 H SWR 36	28500	11.635 H SWR 36	28500
12.207 H RADIO 15	27500	12.265 H ORF 28	27500	12.563 H OE2 AY	22000	11.478 V PLANETV	22000	11.635 H SWR 37	28500	11.635 H SWR 37	28500
12.207 H RADIO 16	27500	12.265 H ORF 29	27500	12.563 H OE2 AZ	22000	11.478 V PLANETV	22000	11.635 H SWR 38	28500	11.635 H SWR 38	28500
12.207 H RADIO 17	27500	12.265 H ORF 30	27500	12.563 H OE2 BA	22000	11.478 V PLANETV	22000	11.635 H SWR 39	28500	11.635 H SWR 39	28500
12.207 H RADIO 18	27500	12.265 H ORF 31	27500	12.563 H OE2 BB	22000	11.478 V PLANETV	22000	11.635 H SWR 40	28500	11.635 H SWR 40	28500
12.207 H RADIO 19	27500	12.265 H ORF 32	27500	12.563 H OE2 BC	22000	11.478 V PLANETV	22000	11.635 H SWR 41	28500	11.635 H SWR 41	28500
12.207 H RADIO 20	27500	12.265 H ORF 33	27500	12.563 H OE2 BD	22000	11.478 V PLANETV	22000	11.635 H SWR 42	28500	11.635 H SWR 42	28500
12.207 H RADIO 21	27500	12.265 H ORF 34	27500	12.563 H OE2 BE	22000	11.478 V PLANETV	22000	11.635 H SWR 43	28500	11.635 H SWR 43	28500
12.207 H RADIO 22	27500	12.265 H ORF 35	27500	12.563 H OE2 BF	22000	11.478 V PLANETV	22000	11.635 H SWR 44	28500	11.635 H SWR 44	28500
12.207 H RADIO 23	27500	12.265 H ORF 36	27500	12.563 H OE2 BG	22000	11.478 V PLANETV	22000	11.635 H SWR 45	28500	11.635 H SWR 45	28500
12.207 H RADIO 24	27500	12.265 H ORF 37	27500	12.563 H OE2 BH	22000	11.478 V PLANETV	22000	11.635 H SWR 46	28500	11.635 H SWR 46	28500
12.207 H RADIO 25	27500	12.265 H ORF 38	27500	12.563 H OE2 BI	22000	11.478 V PLANETV	22000	11.635 H SWR 47	28500	11.635 H SWR 47	28500
12.207 H RADIO 26	27500	12.265 H ORF 39	27500	12.563 H OE2 BJ	22000	11.478 V PLANETV	22000	11.635 H SWR 48	28500	11.635 H SWR 48	28500
12.207 H RADIO 27	27500	12.265 H ORF 40	27500	12.563 H OE2 BK	22000	11.478 V PLANETV	22000	11.635 H SWR 49	28500	11.635 H SWR 49	28500
12.207 H RADIO 28	27500	12.265 H ORF 41	27500	12.563 H OE2 BL	22000	11.478 V PLANETV	22000	11.635 H SWR 50	28500	11.635 H SWR 50	28500
12.207 H RADIO 29	27500	12.265 H ORF 42	27500	12.563 H OE2 BM	22000	11.478 V PLANETV	22000	11.635 H SWR 51	28500	11.635 H SWR 51	28500
12.207 H RADIO 30	27500	12.265 H ORF 43	27500	12.563 H OE2 BN	22000	11.478 V PLANETV	22000	11.635 H SWR 52	28500	11.635 H SWR 52	28500
12.207 H RADIO 31	27500	12.265 H ORF 44	27500	12.563 H OE2 BO	22000	11.478 V PLANETV	22000	11.635 H SWR 53	28500	11.635 H SWR 53	28500
12.207 H RADIO 32	27500	12.265 H ORF 45	27500	12.563 H OE2 BP	22000	11.478 V PLANETV	22000	11.635 H SWR 54	28500	11.635 H SWR 54	28500
12.207 H RADIO 33	27500	12.265 H ORF 46	27500	12.563 H OE2 BQ	22000	11.478 V PLANETV	22000	11.635 H SWR 55	28500	11.635 H SWR 55	28500
12.207 H RADIO 34	27500	12.265 H ORF 47	27500	12.563 H OE2 BR	22000	11.478 V PLANETV	22000	11.635 H SWR 56	28500	11.635 H SWR 56	28500
12.207 H RADIO 35	27500	12.265 H ORF 48	27500	12.563 H OE2 BS	22000	11.478 V PLANETV	22000	11.635 H SWR 57	28500	11.635 H SWR 57	28500
12.207 H RADIO 36	27500	12.265 H ORF 49	27500	12.563 H OE2 BT	22000	11.478 V PLANETV	22000	11.635 H SWR 58	28500	11.635 H SWR 58	28500
12.207 H RADIO 37	27500	12.265 H ORF 50	27500	12.563 H OE2 BU	22000	11.478 V PLANETV	22000	11.635 H SWR 59	28500	11.635 H SWR 59	

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Satellite Dish Pointer / Alignment Calculator with Google Maps

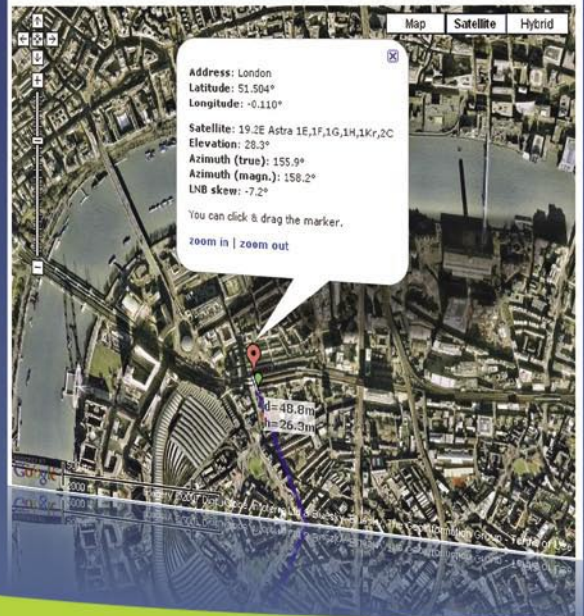
International location: e.g. streetname, postcode, geocode:

London

Popular Satellites:

- 28.2E Astra 2A-8-0
- 13.0E Hotbird 6,7A,8
- 19.2E Astra 1E,1F,1G,1H,1K,1R,2C
- 42.0E TurkSat 1C, 2A
- 16.0E Eutelsat W2
- 26.0E Badr-2,3,4/Eurobird 2
- 5.0E Sirius 2,3
- 5.0W Atlantic Bird 3
- 7.0W NileSat 101,102, Atlantic Bird 4
- 1.0W Intelsat 10-02

All Satellites & Multi-LNB Setups:



References



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www.dishpointer.com
info@dishpointer.com

12.560 H Satanta Golf	27500
12.560 H Satanta News	27500
12.560 H Satanta Sports1	27500
12.560 H Satanta Sports2	27500
12.560 V Best Direct	27500
12.560 V BestDirect+	27500
12.560 V Bubble Hits	27500
12.560 V EuroNews	27500
12.560 V O'ceanoProperty	27500
12.560 V Real Estate #1	27500
12.560 V Rocks & Co.	27500
12.560 V Thomson TV	27500
12.560 V Travel Channel	27500
12.560 V TravelChannel2	27500
12.560 V Tron Direct 2	27500
12.560 V Wedding TV1	27500
12.560 V Zone Thriller	27500
12.560 V Investigation	27500
11.428 H Brit Shorts	27500
11.428 H -	27500
11.428 H GROOVE	27500
11.428 H HNRG LOWNRG	27500
11.428 H RADIO SHEPHERD	27500
11.428 H WELL CLASS	27500
11.797 H Channel 4 HD	29500
11.797 H Sky Sports HD1	29500
11.797 H SkyRealLive2D	29500
12.324 V Sci-Fi HD	29500
12.324 V Discovery HD	29500
12.324 V Disney Cine HD	29500
12.607 V Rush HD	27500
12.607 H Gay TV	27500
12.607 H redhot 40+	27500
12.607 H redhot amateur	27500
12.607 H redhot dd	27500
12.607 H redhot fetish	27500
12.607 H redhot girl	27500
12.607 H redhot just X	27500
12.607 H Television X	27500
12.607 H TVX Amateur	27500
12.607 H TVX Brits	27500
12.607 H TVX FWD	27500
12.607 H Zee Cinema	27500
12.607 H Zee Gujarati	27500
12.607 H Zee Punjabi	27500
12.607 H Zee Family	27500
12.607 H Live XXX	27500
12.607 H Pulse +4mins	27500
12.607 H Zee Music	27500
12.643 H Euronews TVHD	27500
12.643 V DMAX+1	27500
12.643 V DMAX+2	27500
12.643 V Military	27500
12.643 V Nick Jr	27500
12.643 V Nickelodeon	27500
12.643 V ParaComedy+1	27500
12.643 V The Style Ntwk	27500
12.643 V 1898	27500
12.643 V S430	27500
12.643 H Body In Balance	27500
12.643 H HITV	27500
12.643 H Live Bingo	27500
12.643 H Luxe TV	27500
12.643 H Music India	27500
12.643 H Ocean TV	27500
12.643 H NoorFinance	27500
12.643 V Teachers TV	27500
12.643 V World Movies	27500
12.643 V YoungHeart	27500
12.690 V BET +	27500
12.690 V channel U	27500
12.690 V Entrepreneur	27500
12.690 V Film24	27500
12.690 V Gems 3	27500
12.690 V MTV National	27500
12.690 V Pitch TV	27500
12.690 V Pitch World	27500
12.690 V Press TV	27500
12.690 V Sunrise TV	27500
12.690 V SupremeMstr	27500
12.690 V Travel Ch+1	27500
12.690 V Wonderful	27500

ARABSAT 2B	27500
ARABSAT 30.5° East	27500
ARABSAT 2B 030.5° East	27500
12.582 H ART-SNG2	4220
12.589 H BN SPACED CHANNEL	4220
12.661 V Almajd 05	27500
12.661 V Almajd 06	27500
12.661 V Almajd 07	27500
12.661 V Almajd 08	27500
12.661 V Almajd 09	27500
12.661 V Almajd 10	27500
12.661 V Almajd 11	27500
12.661 V Almajd 12	27500
12.661 V Almajd 13	27500
12.661 V Almajd 14	27500
12.661 V Almajd 01	27500
12.661 V Almajd 02	27500
12.661 V Almajd 03	27500
12.661 V Almajd 04	27500
12.740 V OMAN TV SPECIAL	5084
12.740 V OMAN TV CH	5084
12.740 V OMAN RADIO FEEDS	5084
ASTRA SATD	30.5° East
11.095 V TEMPO-TURK	2222
11.099 V HAMS TV	2222
11.226 H BUSINESS	3925
11.226 H CITY FM	27500
11.226 H HUMOR FM	27500
11.226 H KINO FM	27500
11.226 H POMESTNOE	27500
11.226 H Toinfo-TV	27500
11.226 H 107.8	27500
11.226 H AvtoRadio	27500
11.226 H Business FM	27500
11.226 H DMX+1	27500
11.226 H DOPOHOE	27500
11.226 H Energia	27500
11.226 H G.2	27500
11.226 H Gardarika	27500
11.226 H Radio Alfa	27500
11.226 H Kino FM	27500
11.226 H Piter RS	27500
11.226 H Pomestnoe	27500
11.226 H Radio Alfa	27500
11.226 H Radio Record	27500
11.226 H Radio Vanya	27500
11.226 H Record-2	27500
11.226 H Relax	27500
11.226 H Shanson	27500
INTELSAT 802/EUROBIRD 3	30.5° East
EUROBIRD 033.0° East	27500
11.071 L Football test	27500
11.127 L Sport 1	27500
11.127 L Sport 2	27500
11.127 L TBI	27500
11.127 L Transmit	27500
11.127 L BIZ TV	27500
11.127 L CHANSON	27500
11.127 L Che-Pe INFO	27500
11.127 L Fiat Automotive	27500
11.127 L Q2TV	27500
11.127 L RUTV	27500
11.127 L TV3	27500
12.072 L Discovery HD	27500
12.072 L Eurosport HD	27500
12.072 L HD-Kino	27500
12.072 L HD-Sport	27500
12.175 L L-TV	4340
12.190 L 365 days	20000
12.190 L Teen TV	20000
12.190 L Antipolice	20000
12.190 L Discovery Channel	20000
12.190 L Dom Kino	20000
12.190 L Komedia TV	20000
12.190 L Muz-TV	20000
12.190 L Muz-TV dlya	20000
12.190 L Muz-TV	20000
12.190 L Nochnoy Klub	20000
12.190 L Nostalgia	20000
12.190 L Telenyushchaya	20000
12.226 L Bibigon	27500
12.226 L Vesti	27500
12.226 L JTB	27500
12.226 L Kultura	27500
12.226 L MuzTV	27500

11.175 H Animal Planet	23600
11.175 H GTV	23600
11.175 H Jetix	23600
11.175 H Planeta	23600
11.175 H Premium Digital	23600
11.175 H ART Channel	23600
11.175 H H Estate	23600
11.175 H FolklorTV	23600
11.175 H Kanal 3	23600
11.175 H R.ECTV	23600
11.175 H SC Fok	23600
11.175 H Zdrave	23600
11.650 V Turf TV	10098
11.685 H AKILLI TV	17360
11.685 H DIGITURK INFO	17360
11.685 H KANAL A	17360
11.685 H SAUDI 1 TV	17360
11.685 H ZDF	17360
12.226 L HTB	27500
12.226 L L Perelyb	27500
12.226 L Petruburg 5 kanal	27500
12.226 L Ren TV	27500
12.226 L Rossiya	27500
12.226 L Sport	27500
12.226 L TBU	27500
12.226 L THT	27500
12.226 L TrikolourTV	27500
12.245 R BBC World News	27500
12.245 R Bloomberg	27500
12.245 R Eurosport 2	27500
12.245 R Nickelodeon	27500
12.245 R BBC World News	27500
12.245 R Today	27500
12.245 R TV	27500
12.245 R World Fashion	27500
12.245 R Детский мир/Телеклуб 6	27500
12.245 R RTD	27500
12.245 R HTB Мир	27500
12.245 R Наше новое кино	27500
12.283 R 5 канал (Украина)	27500
12.283 R CCTV	27500
12.283 R ICTV	27500
12.283 R Парк развлечений	27500
12.283 R Мегаспорт	27500
12.283 R HTB	27500
12.283 R Парк развлечений	27500
12.283 R Первый канал. Всемир	27500
12.283 R PIP-Planeta	27500
12.283 R Совершенно секретно	27500
12.303 L Боец ТВ	27500
12.303 L Домашний	27500
12.303 L Zoo TV	27500
12.303 L LNK	27500
12.303 L Кинопоиск	27500
12.303 L CTC	27500
12.303 L Тонус ТВ	27500
12.303 L RTD	27500
12.303 L A-ONE	27500
12.303 L BRIDGE TV	27500
12.303 L Союз	27500
12.303 L AvtoRadio	27500
12.303 L Energia	27500
12.303 L Humor FM	27500
12.303 L Radio Alfa	27500
12.303 L Воскресенье	27500
12.303 L Новый день	27500
12.322 R Blue Hustler	27500
12.322 R REN-TV	27500
12.322 R Кинопарк	27500
12.322 R Кто есть кто	27500
12.322 R Наше кино	27500
12.322 R Первый	27500
12.322 R Прямая	27500
12.322 R Спорт	27500
12.322 R Футбол	27500
12.322 L Мирфакан	27500
12.341 L AXN Sci-Fi	27500
12.341 L CanalSat-TV	27500
12.341 L RU-TV	27500
12.341 L Sci-Fi	27500
12.341 L Universal	27500
12.341 L Discovery HD	27500
12.341 L Кинопарк 1	27500
12.341 L Кинопарк 2	27500
12.341 L Комедия ТВ	27500
12.341 L Discovery Channel	27500
12.360 R Animal Planet	27500
12.360 R CNN	27500
12.360 R Detekty Mir/Teletclub	27500
12.360 R Discovery Channel	27500
12.360 R EuroKino	27500
12.360 R Fox-Crime	27500
12.360 R HBO/Wild test	27500
12.360 R Planeta-SPORT	27500
12.360 R Sci-Fi	27500
12.360 R Sport 3	27500
12.360 R Sport 4	27500
12.360 R TEST0	27500
12.360 R TEST1	27500
12.360 R TEST	27500
12.360 R Universal	27500
12.360 R UTV	27500
12.360 R World Fashion Channe	27500
12.360 R Che-Pe.INFO	27500


12.360 R Smash TV	27500
12.380 L Авто Плюс	27500
12.380 L Боец ТВ	27500
12.380 L ЗвонТВ	27500
12.380 L Искра ТВ	27500
12.380 L Интернео ТВ	27500
12.380 L Комедия ТВ	27500
12.380 L Кухня ТВ	27500
12.380 L Легионер ТВ	27500
12.380 L МНОГООбзорное ТВ	27500
12.380 L Eurosport 2	27500
12.380 L TV Бульвар	27500
12.399 R 24/24	27500
12.399 R Fashion TV Network	27500
12.399 R MTV Russia	27500
12.399 R Vesti	27500
12.399 R Zvezda	27500
12.399 R Kinoskopa	27500
12.399 R Культура	27500
12.399 R HTB	27500
12.399 R Россия	27500
12.399 R CTC-Москва	27500
12.399 R Спас	27500
12.399 R Спорт on-line	27500
12.399 R TNT	27500
12.418 L НМР	27500
12.399 R Эхо Москвы	27500
12.418 L 3 канал	27500
12.418 L Russia Al-Yaum	27500
12.418 L TV SALT	27500
12.418 L VH1 Russia	27500
12.418 L Бибигон	27500
12.418 L Дом кино	27500
12.418 L МТР	27500
12.418 L Музыла Первого	27500
12.418 L Петербург - 5 канал	27500
12.418 L ТВЦ	27500
12.418 L ТБЦ	27500
12.418 L Теленяня	27500
12.418 L Радио Дети FM TEST	27500
12.437 R NBA-TV	27500
12.437 R MTV	27500
12.437 R НСТ	27500
12.437 R Наш футбол	27500
12.437 R Ностальгия	27500
12.437 R PTP-Спорт	27500
12.437 R Русское Экстремально	27500
12.437 R Спорт Классика	27500
12.437 R Спорт Шоу	27500
12.437 R Тенис	27500
12.456 L Animal Planet	27500
12.456 L Discovery	27500
12.456 L Discovery Travel&Liv	27500
12.456 L Eurosport	27500
12.456 L Hallmark	27500
12.456 L Jetix	27500
12.456 L Jetix Play	27500
12.456 L MusicBox	27500
12.456 L National Geographic	27500
12.456 L Music Box	27500
12.456 L Zone Romantica	27500
12.476 R Cartoon Network/TCM	27500
12.476 R CN International	27500
12.476 R Discovery Science	27500
12.476 R Discovery World	27500
12.476 R EuroSports	27500
12.476 R Extreme Sports	27500
12.476 R Jim Jam	27500
12.476 R MTV	27500
12.476 R Nat Geo Wild	27500
12.476 R VH1 Classic	27500
12.476 R Zone Reality	27500

12.284 H Amajd	26480
12.284 H BLITZ	26480
12.284 H go	26480
12.284 H KADLY	26480
12.284 H Mvld	26480
12.284 H NaGeo	26480
12.284 H SkyN	26480
12.284 H SSS	26480
12.284 H SS7	26480
12.284 H ZNrea	26480
12.284 H Fut_R	26480
12.360 H B4U	26480
12.360 H CN	26480
12.360 H CNN	26480
12.360 H E1	26480
12.360 H FR24	26480
12.360 H MTV	26

SatCoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	GHz	Symbol rate	GHz
PAKSAT 1				
● 11029 V Tandberg Service	1759			
● 11161 V feed 1 (feed 1)	4600			
● 11185 V PTVK DSKG	3333			
● 11456 V ISL DAWN TV	2850			
● 11458 V DSKG	2850			
● 11577 V Xandberg Service	3000			
Europe				
HELLAS SAT 2				
HELLAS2				
HELLAS SAT 2 039.0° East				
● 11037 V PTV	5200			
● 11140 V PTV	4200			
● 11140 V PTV	4200			
● 12715 V test	6654			
HELLAS SAT 2 039.0° East				
● 12524 H Animal Planet	3000			
● 12524 H AXN Sci Fi	3000			
● 12524 H BNT 1	3000			
● 12524 H BTV	3000			
● 12524 H Cinemax 2	3000			
● 12524 H Diema 2	3000			
● 12524 H Discovery	3000			
● 12524 H Discovery Channel	3000			
● 12524 H Euforia	3000			
● 12524 H Eurosport 2	3000			
● 12524 H HBO	3000			
● 12524 H HBO Comedy	3000			
● 12524 H Kias TV	3000			
● 12524 H Money Channel	3000			
● 12524 H Nova TV	3000			
● 12524 H Planeta TV	3000			
● 12524 H Private Spice	3000			
● 12524 H Science	3000			
● 12524 H Sport Klub	3000			
● 12524 H TV Plus	3000			
● 12524 H TV	3000			
● 12524 H TVR 1	3000			
● 12524 H TVR 2	3000			
● 12524 H TVR Cultural	3000			
● 12524 H V1 Classic	3000			
● 12524 H The Voice	3000			
● 12565 V Acsa TV	3000			
● 12565 V Antena 1	3000			
● 12565 V Antena 2	3000			
● 12565 V Antena 3	3000			
● 12565 V AXN	3000			
● 12565 V B1	3000			
● 12565 V CineStar	3000			
● 12565 V Favorit TV	3000			
● 12565 V Minimax/Anime	3000			
● 12565 V N24	3000			
● 12565 V National TV	3000			
● 12565 V OTV	3000			
● 12565 V Prima TV	3000			
● 12565 V PRO TV	3000			
● 12565 V PRO TV INTL	3000			
● 12565 V Realitatea TV	3000			
● 12565 V Sport.ro	3000			
● 12565 V X-Dream TV	3000			
● 12577 H Film Plus HD	10000			
● 12577 H Bulsatcom HD	10000			
● 12647 H AXN CRIME	3000			
● 12647 H BNT SAT	3000			
● 12647 H Boomerang	3000			
● 12647 H Cartoon NET/CM	3000			
● 12647 H Cartoon Network	3000			
● 12647 H CNN Intern.	3000			
● 12647 H Discovery World	3000			
● 12647 H Discovery Science	3000			
● 12647 H Discovery World & L	3000			
● 12647 H Discovery World	3000			
● 12647 H Eurocom BG	3000			
● 12647 H Euronews	3000			
● 12647 H Film Plus	3000			
● 12647 H Free-X TV 2	3000			
● 12647 H Free-TV 2	3000			
● 12647 H GTV	3000			
● 12647 H Hallmark	3000			
● 12647 H Huester TV	3000			
● 12647 H Kanal D	3000			
● 12647 H MTV 2	3000			
● 12647 H MTV Europe	3000			
● 12647 H MTV Romania	3000			
● 12647 H Private Spice	3000			
● 12647 H Super 7	3000			
● 12647 H TV8	3000			
● 12647 H Travel/Living	3000			
● 12647 H TV Europa	3000			
● 12647 H VH1	3000			
● 12647 H Viast History	3000			
● 12647 H Zone Club	3000			
● 12647 H Kanal 3	3000			
● 12647 H MM	3000			
● 12647 H Planeta Folk TV	3000			
● 12647 H Skat TV	3000			
● 12647 H BG Radio	3000			
● 12647 H Dark Radio	3000			
● 12647 H NRJ	3000			
● 12647 H Radio 1 Rock	3000			
● 12647 H radio Aurea	3000			
● 12647 H Tangra MegaRock	3000			
● 12688 H ActionStar	3000			
● 12688 H AXN Crime	3000			
● 12688 H AXN Sci Fi	3000			
● 12688 H Cinemax	3000			
● 12688 H City TV	3000			
● 12688 H Diema Family	3000			
● 12688 H Discovery World	3000			
● 12688 H Eurosport 2	3000			
● 12688 H Extreme Sports	3000			
● 12688 H Fashion TV	3000			
● 12688 H FOX Crime	3000			
● 12688 H FOX Life	3000			
● 12688 H HBO	3000			
● 12688 H HBO Comedy	3000			
● 12688 H Hobby TV	3000			
● 12688 H MTV Europe	3000			
● 12688 H Nat. Geographic	3000			
● 12688 H National Geographic	3000			
● 12688 H PRO Cinema	3000			
● 12688 H TELESPORT	3000			
● 12688 H TRACE	3000			
● 12688 H Travel Channel	3000			
● 12688 H TV1000	3000			
● 12688 H TV2	3000			
● 12688 H TV5 Monde	3000			
● 12688 H VH1	3000			
● 12688 H Taraf	3000			
● 12688 H radio Atlantic	3000			
● 12688 H radio OMV	3000			
● 12688 H radio Veselina E	3000			
● 12688 H radio Veselina W	3000			
● 12688 H radio Veselina X	3000			
● 12688 H radio Veselina Y	3000			
● 12688 H radio Veselina Z	3000			
● 12688 H radio Veselina AA	3000			
● 12688 H radio Veselina AB	3000			
● 12688 H radio Veselina AC	3000			
● 12688 H radio Veselina AD	3000			
● 12688 H radio Veselina AE	3000			
● 12688 H radio Veselina AF	3000			
● 12688 H radio Veselina AG	3000			
● 12688 H radio Veselina AH	3000			
● 12688 H radio Veselina AI	3000			
● 12688 H radio Veselina AJ	3000			
● 12688 H radio Veselina AK	3000			
● 12688 H radio Veselina AL	3000			
● 12688 H radio Veselina AM	3000			
● 12688 H radio Veselina AN	3000			
● 12688 H radio Veselina AO	3000			
● 12688 H radio Veselina AP	3000			
● 12688 H radio Veselina AQ	3000			
● 12688 H radio Veselina AR	3000			
● 12688 H radio Veselina AS	3000			
● 12688 H radio Veselina AT	3000			
● 12688 H radio Veselina AU	3000			
● 12688 H radio Veselina AV	3000			
● 12688 H radio Veselina AW	3000			
● 12688 H radio Veselina AX	3000			
● 12688 H radio Veselina AY	3000			
● 12688 H radio Veselina AZ	3000			
● 12688 H radio Veselina BA	3000			
● 12688 H radio Veselina BB	3000			
● 12688 H radio Veselina BC	3000			
● 12688 H radio Veselina BD	3000			
● 12688 H radio Veselina BE	3000			
● 12688 H radio Veselina BF	3000			
● 12688 H radio Veselina BG	3000			
● 12688 H radio Veselina BH	3000			
● 12688 H radio Veselina BI	3000			
● 12688 H radio Veselina BJ	3000			
● 12688 H radio Veselina BK	3000			
● 12688 H radio Veselina BL	3000			
● 12688 H radio Veselina BM	3000			
● 12688 H radio Veselina BN	3000			
● 12688 H radio Veselina BO	3000			
● 12688 H radio Veselina BP	3000			
● 12688 H radio Veselina BQ	3000			
● 12688 H radio Veselina BR	3000			
● 12688 H radio Veselina BS	3000			
● 12688 H radio Veselina BT	3000			
● 12688 H radio Veselina BU	3000			
● 12688 H radio Veselina BV	3000			
● 12688 H radio Veselina BW	3000			
● 12688 H radio Veselina BX	3000			
● 12688 H radio Veselina BY	3000			
● 12688 H radio Veselina BZ	3000			
● 12688 H radio Veselina CA	3000			
● 12688 H radio Veselina CB	3000			
● 12688 H radio Veselina CC	3000			
● 12688 H radio Veselina CD	3000			
● 12688 H radio Veselina CE	3000			
● 12688 H radio Veselina CF	3000			
● 12688 H radio Veselina CG	3000			
● 12688 H radio Veselina CH	3000			
● 12688 H radio Veselina CI	3000			
● 12688 H radio Veselina CJ	3000			
● 12688 H radio Veselina CK	3000			
● 12688 H radio Veselina CL	3000			
● 12688 H radio Veselina CM	3000			
● 12688 H radio Veselina CN	3000			
● 12688 H radio Veselina CO	3000			
● 12688 H radio Veselina CP	3000			
● 12688 H radio Veselina CQ	3000			
● 12688 H radio Veselina CR	3000			
● 12688 H radio Veselina CS	3000			
● 12688 H radio Veselina CT	3000			
● 12688 H radio Veselina CU	3000			
● 12688 H radio Veselina CV	3000			
● 12688 H radio Veselina CW	3000			
● 12688 H radio Veselina CX	3000			
● 12688 H radio Veselina CY	3000			
● 12688 H radio Veselina CZ	3000			
● 12688 H radio Veselina DA	3000			
● 12688 H radio Veselina DB	3000			
● 12688 H radio Veselina DC	3000			
● 12688 H radio Veselina DD	3000			
● 12688 H radio Veselina DE	3000			
● 12688 H radio Veselina DF	3000			
● 12688 H radio Veselina DG	3000			
● 12688 H radio Veselina DH	3000			
● 12688 H radio Veselina DI	3000			
● 12688 H radio Veselina DJ	3000			
● 12688 H radio Veselina DK	3000			
● 12688 H radio Veselina DL	3000			
● 12688 H radio Veselina DM	3000			
● 12688 H radio Veselina DN	3000			
● 12688 H radio Veselina DO	3000			
● 12688 H radio Veselina DP	3000			
● 12688 H radio Veselina DQ	3000			
● 12688 H radio Veselina DR	3000			
● 12688 H radio Veselina DS	3000			
● 12688 H radio Veselina DT	3000			
● 12688 H radio Veselina DU	3000			
● 12688 H radio Veselina DV	3000			
● 12688 H radio Veselina DW	3000			
● 12688 H radio Veselina DX	3000			
● 12688 H radio Veselina DY	3000			
● 12688 H radio Veselina DZ	3000			
● 12688 H radio Veselina EA	3000			
● 12688 H radio Veselina EB	3000			
● 12688 H radio Veselina EC	3000			
● 12688 H radio Veselina ED	3000			
● 12688 H radio Veselina EE	3000			
● 12688 H radio Veselina EF	3000			
● 12688 H radio Ves				

SatcoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
12.479 H GET	30000	THA05CR		11.044 H Tenerife	44948	11.630 H HELPEDESK	28500	3.921 H TV 100	13000
12.479 H GNV	30000	THAICOM 5 078.5° East		11.044 H HONET	44948	11.630 H HONET	28500	3.921 H TV (Empty)	13000
12.479 H HOTT	30000			11.044 H 4yrdon	44948	11.630 H Showcase 2308	28500	3.923 V MMINIT	13000
12.479 H J100	30000			11.044 H Music Love	44948	11.630 H Showcase Promo Cha...	28500	3.934 V STAR JALSHA	30000
12.479 H LKGT	30000			11.044 H Mittelstaaja Volna	44948	11.630 H STAR Pravda	28500	3.934 V STAR MIJAY	30000
12.479 H MCTR	30000			11.044 H Radio Mayak	29500	11.630 H Udaya 2	28500	3.934 V MEGA TV	30000
12.479 H MJNG	30000			11.044 H Animal Planet	44948	11.630 H Active Cooking	28500	3.936 H XN	10100
12.479 H RVR	30000			11.606 V AXN Sci Fi	44948	11.630 H Active Cooking 2	28500	3.936 H NewsX	10100
12.479 H SPT	30000			11.606 V Kaskyev Europe Cha	44948	11.670 H HENSKY	28500	3.949 H DY865	3223
12.479 H TMSG	30000			11.606 V Discovery Science	44948	11.670 H WHI	28500	3.957 H Mahua News	9500
12.521 H AMAX	30000			11.606 V Discovery Travel & L	44948	11.670 H Zoom	28500	3.957 H RAI KANADA	6500
12.521 H AXN	30000			11.606 V Discovery World	44948	11.670 H H Active Living	28500	3.974 V GURATI	13300
12.521 H BBCE	30000			11.606 V Fox Crime	44948	11.670 H H Active Living 2	28500	3.974 V News9	13300
12.521 H CH4	30000			11.606 V Fox Life	44948	11.670 H H Active Living 3	28500	3.974 V SANSKRUTI	13300
12.521 H CHC	30000			11.606 V Fox Sports	44948	11.670 H H Active Living 4	28500	3.974 V ZEE NEXT	3000
12.521 H EI	30000			11.606 V Fox Sports 2	44948	11.670 H H Active Living 5	28500	3.974 V MUMBAI	13300
12.521 H LTNG	30000			11.606 V Fox Sports 3	44948	11.670 H H Active Living 6	28500	3.974 V News9	13300
12.521 H M2	30000			11.606 V Fox Sports 4	44948	11.670 H H Active Living 7	28500	3.974 V SANSKRUTI	13300
12.521 H M3	30000			11.606 V Fox Sports 5	44948	11.670 H H Active Living 8	28500	3.974 V ZEE NEXT	3000
12.521 H M4	30000			11.606 V Fox Sports 6	44948	11.670 H H Active Living 9	28500	3.974 V MUMBAI	13300
12.521 H M5	30000			11.606 V Fox Sports 7	44948	11.670 H H Active Living 10	28500	3.974 V News9	13300
12.521 H M6	30000			11.606 V Fox Sports 8	44948	11.670 H H Active Living 11	28500	3.974 V SANSKRUTI	13300
12.521 H M7	30000			11.606 V Fox Sports 9	44948	11.670 H H Active Living 12	28500	3.974 V ZEE NEXT	3000
12.521 H M8	30000			11.606 V Fox Sports 10	44948	11.670 H H Active Living 13	28500	3.974 V MUMBAI	13300
12.521 H M9	30000			11.606 V Fox Sports 11	44948	11.670 H H Active Living 14	28500	3.974 V News9	13300
12.521 H M10	30000			11.606 V Fox Sports 12	44948	11.670 H H Active Living 15	28500	3.974 V SANSKRUTI	13300
12.521 H M11	30000			11.606 V Fox Sports 13	44948	11.670 H H Active Living 16	28500	3.974 V ZEE NEXT	3000
12.521 H M12	30000			11.606 V Fox Sports 14	44948	11.670 H H Active Living 17	28500	3.974 V MUMBAI	13300
12.521 H M13	30000			11.606 V Fox Sports 15	44948	11.670 H H Active Living 18	28500	3.974 V News9	13300
12.521 H M14	30000			11.606 V Fox Sports 16	44948	11.670 H H Active Living 19	28500	3.974 V SANSKRUTI	13300
12.521 H M15	30000			11.606 V Fox Sports 17	44948	11.670 H H Active Living 20	28500	3.974 V ZEE NEXT	3000
12.521 H M16	30000			11.606 V Fox Sports 18	44948	11.670 H H Active Living 21	28500	3.974 V MUMBAI	13300
12.521 H M17	30000			11.606 V Fox Sports 19	44948	11.670 H H Active Living 22	28500	3.974 V News9	13300
12.521 H M18	30000			11.606 V Fox Sports 20	44948	11.670 H H Active Living 23	28500	3.974 V SANSKRUTI	13300
12.521 H M19	30000			11.606 V Fox Sports 21	44948	11.670 H H Active Living 24	28500	3.974 V ZEE NEXT	3000
12.521 H M20	30000			11.606 V Fox Sports 22	44948	11.670 H H Active Living 25	28500	3.974 V MUMBAI	13300
12.521 H M21	30000			11.606 V Fox Sports 23	44948	11.670 H H Active Living 26	28500	3.974 V News9	13300
12.521 H M22	30000			11.606 V Fox Sports 24	44948	11.670 H H Active Living 27	28500	3.974 V SANSKRUTI	13300
12.521 H M23	30000			11.606 V Fox Sports 25	44948	11.670 H H Active Living 28	28500	3.974 V ZEE NEXT	3000
12.521 H M24	30000			11.606 V Fox Sports 26	44948	11.670 H H Active Living 29	28500	3.974 V MUMBAI	13300
12.521 H M25	30000			11.606 V Fox Sports 27	44948	11.670 H H Active Living 30	28500	3.974 V News9	13300
12.521 H M26	30000			11.606 V Fox Sports 28	44948	11.670 H H Active Living 31	28500	3.974 V SANSKRUTI	13300
12.521 H M27	30000			11.606 V Fox Sports 29	44948	11.670 H H Active Living 32	28500	3.974 V ZEE NEXT	3000
12.521 H M28	30000			11.606 V Fox Sports 30	44948	11.670 H H Active Living 33	28500	3.974 V MUMBAI	13300
12.521 H M29	30000			11.606 V Fox Sports 31	44948	11.670 H H Active Living 34	28500	3.974 V News9	13300
12.521 H M30	30000			11.606 V Fox Sports 32	44948	11.670 H H Active Living 35	28500	3.974 V SANSKRUTI	13300
12.521 H M31	30000			11.606 V Fox Sports 33	44948	11.670 H H Active Living 36	28500	3.974 V ZEE NEXT	3000
12.521 H M32	30000			11.606 V Fox Sports 34	44948	11.670 H H Active Living 37	28500	3.974 V MUMBAI	13300
12.521 H M33	30000			11.606 V Fox Sports 35	44948	11.670 H H Active Living 38	28500	3.974 V News9	13300
12.521 H M34	30000			11.606 V Fox Sports 36	44948	11.670 H H Active Living 39	28500	3.974 V SANSKRUTI	13300
12.521 H M35	30000			11.606 V Fox Sports 37	44948	11.670 H H Active Living 40	28500	3.974 V ZEE NEXT	3000
12.521 H M36	30000			11.606 V Fox Sports 38	44948	11.670 H H Active Living 41	28500	3.974 V MUMBAI	13300
12.521 H M37	30000			11.606 V Fox Sports 39	44948	11.670 H H Active Living 42	28500	3.974 V News9	13300
12.521 H M38	30000			11.606 V Fox Sports 40	44948	11.670 H H Active Living 43	28500	3.974 V SANSKRUTI	13300
12.521 H M39	30000			11.606 V Fox Sports 41	44948	11.670 H H Active Living 44	28500	3.974 V ZEE NEXT	3000
12.521 H M40	30000			11.606 V Fox Sports 42	44948	11.670 H H Active Living 45	28500	3.974 V MUMBAI	13300
12.521 H M41	30000			11.606 V Fox Sports 43	44948	11.670 H H Active Living 46	28500	3.974 V News9	13300
12.521 H M42	30000			11.606 V Fox Sports 44	44948	11.670 H H Active Living 47	28500	3.974 V SANSKRUTI	13300
12.521 H M43	30000			11.606 V Fox Sports 45	44948	11.670 H H Active Living 48	28500	3.974 V ZEE NEXT	3000
12.521 H M44	30000			11.606 V Fox Sports 46	44948	11.670 H H Active Living 49	28500	3.974 V MUMBAI	13300
12.521 H M45	30000			11.606 V Fox Sports 47	44948	11.670 H H Active Living 50	28500	3.974 V News9	13300
12.521 H M46	30000			11.606 V Fox Sports 48	44948	11.670 H H Active Living 51	28500	3.974 V SANSKRUTI	13300
12.521 H M47	30000			11.606 V Fox Sports 49	44948	11.670 H H Active Living 52	28500	3.974 V ZEE NEXT	3000
12.521 H M48	30000			11.606 V Fox Sports 50	44948	11.670 H H Active Living 53	28500	3.974 V MUMBAI	13300
12.521 H M49	30000			11.606 V Fox Sports 51	44948	11.670 H H Active Living 54	28500	3.974 V News9	13300
12.521 H M50	30000			11.606 V Fox Sports 52	44948	11.670 H H Active Living 55	28500	3.974 V SANSKRUTI	13300
12.521 H M51	30000			11.606 V Fox Sports 53	44948	11.670 H H Active Living 56	28500	3.974 V ZEE NEXT	3000
12.521 H M52	30000			11.606 V Fox Sports 54	44948	11.670 H H Active Living 57	28500	3.974 V MUMBAI	13300
12.521 H M53	30000			11.606 V Fox Sports 55	44948	11.670 H H Active Living 58	28500	3.974 V News9	13300
12.521 H M54	30000			11.606 V Fox Sports 56	44948	11.670 H H Active Living 59	28500	3.974 V SANSKRUTI	13300
12.521 H M55	30000			11.606 V Fox Sports 57	44948	11.670 H H Active Living 60	28500	3.974 V ZEE NEXT	3000
12.521 H M56	30000			11.606 V Fox Sports 58	44948	11.670 H H Active Living 61	28500	3.974 V MUMBAI	13300
12.521 H M57	30000			11.606 V Fox Sports 59	44948	11.670 H H Active Living 62	28500	3.974 V News9	13300
12.521 H M58	30000			11.606 V Fox Sports 60	44948	11.670 H H Active Living 63	28500	3.974 V SANSKRUTI	13300
12.521 H M59	30000			11.606 V Fox Sports 61	44948	11.670 H H Active Living 64	28500	3.974 V ZEE NEXT	3000
12.521 H M60	30000			11.606 V Fox Sports 62	44948	11.670 H H Active Living 65	28500	3.974 V MUMBAI	13300
12.521 H M61	30000			11.606 V Fox Sports 63	44948	11.670 H H Active Living 66	28500	3.974 V News9	13300
12.521 H M62	30000			11.606 V Fox Sports 64	44948	11.670 H H Active Living 67	28500	3.974 V SANSKRUTI	13300
12.521 H M63	30000			11.606 V Fox Sports 65	44948	11.670 H H Active Living 68	28500	3.974 V ZEE NEXT	3000
12.521 H M64	30000			11.606 V Fox Sports 66	44948	11.670 H H Active Living 69	28500	3.974 V MUMBAI	13300
12.521 H M65	30000			11.606 V Fox Sports 67	44948	11.670 H H Active Living 70	28500	3.974 V News9	13300
12.521 H M66	30000			11.606 V Fox Sports 68	44948	11.670 H H Active Living 71	28500	3.974 V SANSKRUTI	13300
12.521 H M67	30000			11.606 V Fox Sports 69	44948	11.670 H H Active Living 72	28500	3.974 V ZEE NEXT	3000
12.521 H M68	30000			11.606 V Fox Sports 70	44948	11.670 H H Active Living 73	28500	3.974 V MUMBAI	13300
12.521 H M69	30000			11.606 V Fox Sports 71	44948	11.670 H H Active Living 74	28500	3.974 V News9	13300
12.521 H M70	30000			11.606 V Fox Sports 72	44948	11.670 H H Active Living 75	28500	3.974 V SANSKRUTI	13300
12.521 H M71	30000			11.606 V Fox Sports 73	44948	11.670 H H Active Living 76	28500	3.974 V ZEE NEXT	3000
12.521 H M72	30000			11.606 V Fox Sports 74	44948	11.670 H H Active Living 77	28500	3.974 V MUMBAI	13300
12.521 H M73	30000			11.606 V Fox Sports 75	44948	11.670 H H Active Living 78	28500	3.974 V News9	13300
12.521 H M74	30000			11.606 V Fox Sports 76	44948	11.670 H H Active Living 79	28500	3.974 V SANSKRUTI	13300
12.521 H M75	30000			11.606 V Fox Sports 77	44948	11.670 H H Active Living 80	28500	3.974 V ZEE NEXT	3000
12.521 H M76	30000			11.606 V Fox Sports 78	44948	11.670 H H Active Living 81	28500	3.974 V MUMBAI	13300
12.521 H M77	30000			11.606 V Fox Sports 79	44948	11.670 H H Active Living 82	28500	3.974 V News9	13300
12.521 H M78	30000			11.606 V Fox Sports 80	44948	11.670 H H Active Living 83	28500	3.974 V SANSKRUTI	13300
12.521 H M79	30000			11.606 V Fox Sports 81	44948	11.670 H H Active Living 84	2		

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Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
4.140 ZEE GUJRATI	27500	2.625 H Trans 7	20000	12.689 V	26667	12.691 R C-BS Welcome Chan	9080	3.871 V SK-XIN-BC	9080	4.175 V ZY2 stereo	18000	3.820 V Zee TV	27500	3.820 V Zee TV
4.140 ZEE MARATHI	27500	2.625 H MTV Asia	20000	12.689 V	26667	12.691 R CVC Japan	9080	4.175 V ZY3 stereo	18000	4.175 V ZY3 stereo	18000	3.820 V Mahua	27500	3.820 V Mahua
4.140 ZEE PUNJABI	27500	2.625 H Radio Australia	20000	12.689 V	26667	12.730 Bloomberg TV Japan	9080	4.175 V ZY4 stereo	18000	4.175 V ZY4 stereo	18000	3.820 V Nepal-1	27500	3.820 V Nepal-1
4.140 ZEE NEWS	27500	2.625 H Radio Danang/TPI	20000	12.689 V	26667	12.730 Data College	9080	4.175 V ZY5 stereo	18000	4.175 V ZY5 stereo	18000	3.820 V Saha National	27500	3.820 V Saha National
4.140 ZEE TV - NEW	27500	2.625 H Radio Sonora	20000	12.689 V	26667	12.730 DPSTV	9080	4.175 V ZY6 stereo	18000	4.175 V ZY6 stereo	18000	3.820 V TV-5	27500	3.820 V TV-5
4.140 ZEE MUSIC	27500	2.625 H Voice of America	20000	12.689 V	26667	12.730 E+ Sport&News	9080	4.175 V ZY7 stereo	18000	4.175 V ZY7 stereo	18000	3.820 V TV-5 Monde	27500	3.820 V TV-5 Monde
4.140 ZEE SMILE	27500	2.655 H Al Jazeera Int'l	15000	12.689 V	26667	12.730 Music Japan TV	27500	4.175 V ZY8 stereo	18000	4.175 V ZY8 stereo	18000	3.820 V H1	27500	3.820 V H1
4.180 V AAG	26666	2.655 H Fashion TV	15000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY9 stereo	18000	4.175 V ZY9 stereo	18000	3.820 V BeIfan	27500	3.820 V BeIfan
4.180 V AAG INTL	26666	2.655 H Global TV	15000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY10 stereo	18000	4.175 V ZY10 stereo	18000	3.820 V H1	27500	3.820 V H1
4.180 V FEED 1	26666	2.655 H MTV Asia	20000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY11 stereo	18000	4.175 V ZY11 stereo	18000	3.820 V H1	27500	3.820 V H1
4.180 V FEED 2	26666	2.655 H MNC Ent.	15000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY12 stereo	18000	4.175 V ZY12 stereo	18000	3.820 V H1	27500	3.820 V H1
4.180 V FEED 3	26666	2.655 H MNC News	15000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY13 stereo	18000	4.175 V ZY13 stereo	18000	3.820 V H1	27500	3.820 V H1
4.180 V GEO ENT B	26666	2.655 H SCTV	15000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY14 stereo	18000	4.175 V ZY14 stereo	18000	3.820 V H1	27500	3.820 V H1
4.180 V GEO ENT U	26666	2.655 H Vision1 Sports	15000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY15 stereo	18000	4.175 V ZY15 stereo	18000	3.820 V H1	27500	3.820 V H1
4.180 V GEO ME	26666	2.655 H Radio Hard Rock FM	15000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY16 stereo	18000	4.175 V ZY16 stereo	18000	3.820 V H1	27500	3.820 V H1
4.180 V GEO NEWS INTL	26666	2.655 H Voice of America	20000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY17 stereo	18000	4.175 V ZY17 stereo	18000	3.820 V H1	27500	3.820 V H1
4.180 V GEO SUPER	26666	2.655 H Radio Trax FM	15000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY18 stereo	18000	4.175 V ZY18 stereo	18000	3.820 V H1	27500	3.820 V H1
4.180 V GEO NEWS	26666	2.655 H Radio Trax FM	15000	12.689 V	26667	12.730 RNN 24	27500	4.175 V ZY19 stereo	18000	4.175 V ZY19 stereo	18000	3.820 V H1	27500	3.820 V H1
ASIATAS 35	105.5° East													
12.351 V IRIB AQZOSH	30000	3.776 H RADIO TELEVISION 435	4350	12.511 H VIVA Cinema	28100	12.511 H VIVA Cinema	28100	4.020 V 武术世界	27500	4.020 V 武术世界	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB QURAN	30000	3.807 H tve2-pusteko	4000	12.511 H DZBB	28100	12.511 H DZBB	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.900 H TVY-Network	6000	12.511 H DZM 360	28100	12.511 H DZM 360	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	4.015 H Animal Planet	20000	12.511 H DZM 360	28100	12.511 H DZM 360	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	4.085 H TransTV Test1	6000	12.511 H Love Radio 90.7	28100	12.511 H Love Radio 90.7	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	4.092 H JPTV-TV	3175	12.511 H H Magi 89.9	28100	12.511 H H Magi 89.9	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	4.097 H PPTV-REK	3250	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Cartoon W'ork	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Cinemax	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H CNBC	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H CNN INTL	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H CNN	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H HDTV Asia	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Nat Geo	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H NHK	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Nickelodeon	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗	27500	4.180 V Star Plus	27500	4.180 V Star Plus
12.351 V IRIB AQZOSH	30000	3.580 H Star World	28000	12.511 H H Sky2 93.1	28100	12.511 H H Sky2 93.1	28100	4.020 V 快乐狗	27500	4.020 V 快乐狗				

SatcoDX Global Satellite Chart 04/2009

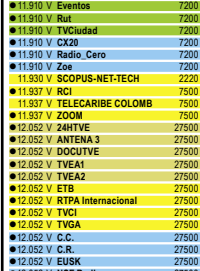
Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
12.598 H SKY News	27800	12.594 H Sky Box Office	22500	12.311 R Antenna Satellite	20000	12.310 H HBO Signature West	19510	12.310 H HBO Signature West	19510	3.300 V Caracol TV (Audio On	27690	3.300 V Caracol TV (Audio On	27690	
12.598 H TCM	27800	12.314 H (Empty Name)	22500	12.311 R Art Sat	20000	3.740 H Lowe Stars West	19510	3.740 H Lowe Stars West	19510	North America		GALAXY 18		
12.598 H VH1	27800	12.421 H AR1 TV	22500	12.311 R Mega Cosmos	20000	3.740 H Mystery West	19510	3.740 H Mystery West	19510	23.0 East (123.0 West)		23.0 East (123.0 West)		
12.638 H BOX	27800	12.421 H Arts Channel	22500	12.311 R Future TV USA	20000	3.740 H ShowTime Top West	19510	3.740 H ShowTime Top West	19510	AMC 11 229.0° East		11788 H DAYSTAR	26657	
12.638 H Box Office	27800	12.421 H Star Plus Hindi	22500	12.326 L KKTV-TV	20000	3.740 H Start Theater West	19510	3.740 H Start Theater West	19510	AMC 11 229.0° East		11788 H KARZ	26657	
12.638 H Channel [VJ]	27800	12.421 H CNBC	22500	12.326 L KMPX-TV	20000	3.740 H The History Channel	19510	3.740 H The History Channel	19510	AMC 11 229.0° East		11788 H KATV	26657	
12.638 H Country Music	27800	12.421 H Documentary	22500	12.326 L KSTV-TV	20000	3.740 H The Movie Channel We	19510	3.740 H The Movie Channel We	19510	AMC 11 229.0° East		11788 H KCBU	26657	
12.638 H Disc Health	27800	12.421 H Fashion TV	22500	12.326 L KUVN-TV	20000	3.740 H Westerns West	19510	3.740 H Westerns West	19510	AMC 11 229.0° East		11788 H KDEV-LP	26657	
12.638 H Disc Science	27800	12.421 H Star Plus Hindi	22500	12.326 L KVVU-TV	20000	3.740 H Hall of Fame USA	19510	3.740 H Hall of Fame USA	19510	AMC 11 229.0° East		11788 H KKKY	26657	
12.638 H Disc Travel	27800	12.421 H Star Plus Hindi	22500	12.326 L KXII-TV	20000	3.740 H Galavisión USA Oeste	29200	3.740 H Galavisión USA Oeste	29200	AMC 11 229.0° East		11788 H KQBU	26657	
12.638 H EI	27800	12.421 H H TCM	22500	12.341 R EDTV Channel West	20000	3.780 H Telefe Uruguay	29200	3.780 H Telefe Uruguay	29200	AMC 11 229.0° East		11788 H KTCV	26657	
12.638 H Eurotopnews	27800	12.421 H H C4	22500	12.341 R ESC 1 USA	20000	3.780 H Unifusion Este	29200	3.780 H Unifusion Este	29200	AMC 11 229.0° East		11788 H KUTC	26657	
12.638 H FTV	27800	12.421 H H News	22500	12.428 R HD Plus	20000	3.780 H The California Chann	30000	3.780 H The California Chann	30000	AMC 11 229.0° East		11788 H KUHF	26657	
12.638 H NG Adventure	27800	12.421 H H Parliament TV	22500	12.326 L WZPX-TV	20000	3.800 V Black Starz West	19510	3.800 V Black Starz West	19510	AMC 11 229.0° East		11788 H KWVO	26657	
12.638 H Nick Jr	27800	12.421 H H ERATOS	22500	12.341 R EDTV Channel West	20000	3.800 V Encore West	19510	3.800 V Encore West	19510	AMC 11 229.0° East		11788 H WGMU	26657	
12.638 H AIR1	27800	12.421 H H Te Reo	22500	12.341 R ESC 1 USA	20000	3.800 V MovieFlex West	19510	3.800 V MovieFlex West	19510	AMC 11 229.0° East		11788 H WMQF	26657	
12.638 H AIR2	27800	12.421 H H News	22500	12.428 R HD Plus	20000	3.800 V Starz Cinema East	19510	3.800 V Starz Cinema East	19510	AMC 11 229.0° East		11788 W KUMH	26657	
12.638 H AIR3	27800	12.421 H H BaseFM	22500	12.341 R Future TV USA	20000	3.800 V Starz Family East	19510	3.800 V Starz Family East	19510	AMC 11 229.0° East		11788 W WUMN Ku	26657	
12.638 H AIR4	27800	12.421 H H GeorgeFM	22500	12.311 R Mega Cosmos	20000	3.800 V Starz Kids West	19510	3.800 V Starz Kids West	19510	AMC 11 229.0° East		11805 H Feeds (Empty Name)	4580	
12.638 H AIR5	27800	12.421 H H RNZ Concert	22500	12.311 R Future TV USA	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR6	27800	12.421 H H RNZ National	22500	12.326 L KKTV-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR7	27800	12.421 H H (Empty Name)	22500	12.326 L KMPX-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR8	27800	12.421 H H Maori TV	22500	12.326 L KSTV-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR9	27800	12.421 H H Reserved 4	22500	12.326 L KUVN-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR10	27800	12.421 H H Reserved 5	22500	12.326 L KXII-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR11	27800	12.421 H H Reserved 6	22500	12.341 R EDTV Channel West	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR12	27800	12.421 H H Reserved 7	22500	12.341 R ESC 1 USA	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR13	27800	12.421 H H Reserved 8	22500	12.428 R HD Plus	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR14	27800	12.421 H H Reserved 9	22500	12.326 L WZPX-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR15	27800	12.421 H H Reserved 10	22500	12.341 R EDTV Channel West	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR16	27800	12.421 H H Reserved 11	22500	12.341 R ESC 1 USA	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR17	27800	12.421 H H Reserved 12	22500	12.428 R HD Plus	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR18	27800	12.421 H H Reserved 13	22500	12.326 L WZPX-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR19	27800	12.421 H H Reserved 14	22500	12.341 R EDTV Channel West	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR20	27800	12.421 H H Reserved 15	22500	12.341 R ESC 1 USA	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR21	27800	12.421 H H Reserved 16	22500	12.428 R HD Plus	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR22	27800	12.421 H H Reserved 17	22500	12.326 L WZPX-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR23	27800	12.421 H H Reserved 18	22500	12.341 R EDTV Channel West	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR24	27800	12.421 H H Reserved 19	22500	12.341 R ESC 1 USA	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR25	27800	12.421 H H Reserved 20	22500	12.428 R HD Plus	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR26	27800	12.421 H H Reserved 21	22500	12.326 L WZPX-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR27	27800	12.421 H H Reserved 22	22500	12.341 R EDTV Channel West	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR28	27800	12.421 H H Reserved 23	22500	12.341 R ESC 1 USA	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR29	27800	12.421 H H Reserved 24	22500	12.428 R HD Plus	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H AIR30	27800	12.421 H H Reserved 25	22500	12.326 L WZPX-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.638 H ESPN HD	27800	12.519 H New Supreme	22500	12.341 R EDTV Channel West	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.688 H Discovery HD	27800	12.519 H H Preview	22500	12.341 R ESC 1 USA	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V 7 Central	30000	12.519 H H Preview	22500	12.428 R HD Plus	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V BTV1	30000	12.519 H H Preview	22500	12.326 L WZPX-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS QLD	30000	12.519 H H Preview	22500	12.341 R EDTV Channel West	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS SE	30000	12.519 H H Preview	22500	12.341 R ESC 1 USA	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS WA	30000	12.519 H H Preview	22500	12.428 R HD Plus	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS WA	30000	12.519 H H Preview	22500	12.326 L WZPX-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS WA	30000	12.519 H H Preview	22500	12.341 R EDTV Channel West	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS WA	30000	12.519 H H Preview	22500	12.341 R ESC 1 USA	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS WA	30000	12.519 H H Preview	22500	12.428 R HD Plus	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS WA	30000	12.519 H H Preview	22500	12.326 L WZPX-TV	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS WA	30000	12.519 H H Preview	22500	12.341 R EDTV Channel West	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS WA	30000	12.519 H H Preview	22500	12.341 R ESC 1 USA	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS WA	30000	12.519 H H Preview	22500	12.428 R HD Plus	20000	3.800 V Starz Theater West	19510	3.800 V Starz Theater West	19510	AMC 11 229.0° East		11855 V 3C Community	5000	
12.407 V SBS WA	30000	12.519 H H Preview	22500											

Freq Pol Channel Name	Symbol rate GHz	Freq Pol Channel Name	Symbol rate GHz	Freq Pol Channel Name	Symbol rate GHz	Freq Pol Channel Name	Symbol rate GHz	Freq Pol Channel Name	Symbol rate GHz	Freq Pol Channel Name	Symbol rate GHz
3.880 U Urban Beat	29270	3.778 H ImaginAsian TV	1980	12.253 R KING-TV	20000	12.341 R KFVE-TV	20000	12.501 L 80's Hits	20000	3.934 V Telemex	3300
3.920 OS Download	26470	3.782 H Hot Net Plus	2550	12.253 R KMXB-TV	20000	12.341 R KHEM-TV	20000	12.501 L Beach Party	20000	3.934 V Univision	3700
3.920 U Soap East	26470	3.800 H PlayBoy TV Espanol	19510	12.253 R KNBZ-TV	20000	12.341 R KHNH-TV	20000	12.501 L Classical Ambiance	20000	3.951 H Radio 1 de Marzo	3700
3.920 U Soap West	26470	3.800 H PlayBoy TV in Classic	19510	12.253 R KOCB-TV	20000	12.341 R KHNH-TV	20000	12.501 L Hit Line	20000	3.951 H SNT	3700
3.920 U Toon West	26470	3.800 H Spice Live	19510	12.253 R KOED-TV	20000	12.341 R KJZZ-TV	20000	12.501 L Live News	20000	3.951 H Unknown	5000
3.940 U PlayBoy TV	19510	3.800 H Spice Platinum	19510	12.253 R KOKH-TV	20000	12.341 R KJZZ-TV	20000	12.501 L Muzak	20000	3.951 H XST Canal 13	3700
3.940 U TVND Theatre 16	19510	3.815 V TBN Enlace USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.501 L Moodscape	20000	4.075 V MVS TV Test Card	3782
3.940 U TVND Theatre 17	19510	3.815 V TBN Enlace USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.501 L Miami Mix	20000	4.075 V TMM TV	2821
3.940 U TVND Theatre 18	19510	3.815 V TBN Enlace USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.501 L Music & Soul	20000	4.095 V MVS TV Test Card	3720
3.940 U TVND Theatre 19	19510	3.815 V TBN Enlace USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.501 L New Orleans	20000	4.115 H XST Canal 13	3700
3.940 U TVND Theatre 20	19510	3.815 V TBN Enlace USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.501 L R&B Revue	20000	4.174 H TV Nueve Leon	3300
3.940 U TVND Theatre 21	19510	3.815 V TBN Enlace USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Dish-on-Demand PPV	20000	3.951 H Unknown	5000
3.940 U TVND Theatre 22	19510	3.815 V TBN Enlace USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports Arizona	20000	North America	
3.940 U TVND Theatre 23	19510	3.815 V TBN Enlace USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports North	20000	ECHOSTAR 10.1	
3.940 U TVND Theatre 24	19510	3.815 V TBN Enlace USA	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	25.0 East (110.0 West)	
3.940 U 70's Super Hits	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ALT	2000
3.940 U American Originals	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L BOLA	2000
3.940 U Atmosphere	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L DRMTS	2000
3.940 U Big Band	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L DRMTS	2000
3.940 U Boleros	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Brazilian Pop	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Classic Country	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Classic R&B	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Contemporary Christi	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Dance	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Folklorica	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U International Love S	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Jazz	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Latin Classical	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Metal	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Showcase 2	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Soft Rock	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Telenovelas	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Tropical	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.940 U Wordbeat	19510	3.800 U Euronews	27684	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U TVN 33	19510	3.980 U Lifetime MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U TVN Action	19510	3.980 U Lifetime MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U TVN Events Electric	19510	3.980 U Lifetime MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U TVN HotBoy	19510	3.980 U Lifetime MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U TVN Passion Soft	19510	3.980 U Lifetime MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U TVN Telenovelas	19510	3.980 U Lifetime MPEG Audio	27680	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 2	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 3	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 4	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 5	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 6	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 7	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 8	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 9	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 10	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 11	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 12	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 13	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 14	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 15	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 16	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 17	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 18	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 19	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 20	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 21	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 22	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 23	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 24	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 25	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 26	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 27	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 28	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 29	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 30	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 31	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000
3.960 U GRTV 32	19510	4.000 H HLN	19510	12.253 R KOWD-TV	20000	12.341 R KJZZ-TV	20000	12.516 R Fox Sports South	20000	12.443 L ELOVE	2000

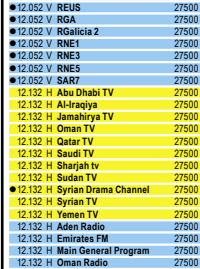
Main table containing satellite data with columns for Freq Pol Channel Name, Symbol rate, GHz, and various channel details. Includes sub-sections for HISPASAT IC 330.0° East, INTELSAT 801 328.5° East, and HISPASAT ID 330.0° East.



Ku-Band 45.49 51



Ku-Band 45.49 51



Ku-Band 45.49 51



Ku-Band 45.49 51



Ku-Band 45.49 51



Ku-Band 45.49 51

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Includes sections for Europe, ATLANTIC BIRD 3, and AMOS 2.

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SatcoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
12.169 H McBox	28000	11.785 H Nat Geo Wild RO	28000	4.025 R BBC English (W Af)	7324	TH0002KU		12.456 V Discov Science	28000
12.169 H Planets TV	28000	11.785 H BBC English Mid-Ea	7324	4.025 R BBC English News	7324	THOR 2 359.2° East		12.456 V World Carnival	28000
12.169 H SKAT	28000	11.785 H TV 6	28000	4.025 R BBC French	7324			12.456 V MTV2 (Cable)	28000
12.169 H Telesat TV	28000	11.785 H Music Channel	28000	4.025 R BBC Pashto	7324			12.456 V Jazz Classics	28000
12.169 H TV LUX	28000	11.785 H Radio Gaga	28000	4.025 R BBC Portuguese	7324			12.456 V Just Chill Out	28000
12.169 H Alpha 3	28000	12.015 H Canal HD	28000	4.025 R BBC Somali	7324			12.456 V Discovery Travel	28000
12.169 H Alpha Radio	28000	● 11.538 H CANAL+ SPORT HD	25000	4.025 R BBC Swahili	7324			12.456 V Nick-VH1 TS	28000
12.169 H BG Radio	28000	● 12.128 H TV Norge HD	30000	INTELSAT 10-02				12.456 V Rock Anthems	28000
12.169 H ENERGY	28000	● 12.128 H TV Norge HD	30000	INS002				12.456 V Sky News	28000
12.169 H Focus Prima	28000	● 12.188 H Silver HD	25000	INS003				12.456 V Soul Classics	28000
12.169 H Focus Sofia	28000	● 12.188 H Voom HD	25000	INS004				12.456 V Strictly 60s	28000
12.169 H Focus Varnovo	28000	● 12.418 H DR1 Syd	28000	INS005				12.456 V The Alternative	28000
12.169 H Focus Varna	28000	● 12.418 H DR2 Syd	28000	INS006				12.456 V Total Hits	28000
12.169 H HIT FM	28000	● 12.418 H DTV2 (Cable)	28000	INS007				12.456 V Total Hits Italy	28000
12.169 H HORNET Radio	28000	● 12.418 H NRK1 Reserve	28000	INS008				12.456 V Total Hits Nordi	28000
12.169 H Njory	28000	● 12.418 H TV Finland	28000	INS009				12.456 V Urban	28000
12.169 H OMV ROMANIA	28000	● 12.418 H Nautil	28000	INS010				12.456 V VH1 Classic	28000
12.169 H Radio 1	28000	● 12.418 H The Poker Channel	28000	INS011				12.456 V World Circus	28000
12.169 H Radio City 2	28000	● 12.418 H TV Patriot	28000	INS012				12.456 V Xmas & Kids	28000
12.169 H Radio FM+	28000	● 12.418 H DR Klassisk Syd	28000	INS013				12.476 H Eurosport	27800
12.169 H Radio Fresh	28000	● 12.418 H DR P1 Syd	28000	INS014				12.476 H Eurosport 2	27800
12.169 H Radio Mia	28000	● 12.418 H DR P2 Syd	28000	INS015				12.476 H TV-bijlet1	27800
12.169 H Radio1 Rock	28000	● 12.418 H DR P3 Syd	28000	INS016				12.476 H TV-bijlet2	27800
12.169 H STAR FM	28000	● 12.418 H DR P4 Syd	28000	INS017				12.476 H TV4 Guid	27800
12.169 H Test Radio	28000	● 12.418 H EKPRFS mp2	28000	INS018				12.476 H TV4 Komedi	27800
12.169 H Veronica	28000	● 12.418 H KISS	28000	INS019					
12.169 H Z-ROCK	28000	● 12.418 H NRK AN Reserve	28000	INS020					
● 12.226 V ESPN America	28000	● 12.418 H NRK P1 Reserve	28000	INS021					
● 12.226 V ESPN Classic	28000	● 12.418 H Radio One	28000	INS022					
● 12.226 V ESPN Sport 2	28000	● 12.418 H Scandinavian Satelli	28000	INS023					
● 12.226 V TV (N)	28000	● 12.418 H Ylesat 1	28000	INS024					
● 12.226 V TV8	28000	● 12.418 H Ylesat 2	28000	INS025					
● 12.226 V Scandinavian Satelli	28000	● 12.428 H DR1 Syd	28000	INS026					
● 12.245 H Antena 1	28000	● 12.428 H DR2 Syd	28000	INS027					
● 12.245 H Favorit TV	28000	● 12.428 H DTV2 (Cable)	28000	INS028					
● 12.245 H Hallmark	28000	● 12.428 H NRK1 Reserve	28000	INS029					
● 12.245 H Hustler TV	28000	● 12.428 H TV Finland	28000	INS030					
● 12.245 H Minimax	28000	● 12.428 H Nautil	28000	INS031					
● 12.245 H MTV Romania	28000	● 12.428 H The Poker Channel	28000	INS032					
● 12.245 H National TV	28000	● 12.428 H TV Patriot	28000	INS033					
● 12.245 H Prima TV	28000	● 12.428 H DR Klassisk Syd	28000	INS034					
● 12.245 H Realitatea TV	28000	● 12.428 H DR P1 Syd	28000	INS035					
● 12.245 H Romantica	28000	● 12.428 H DR P2 Syd	28000	INS036					
● 12.245 H Telesport	28000	● 12.428 H DR P3 Syd	28000	INS037					
● 12.245 H TVR 1	28000	● 12.428 H DR P4 Syd	28000	INS038					
● 12.245 H TVR 2	28000	● 12.428 H EKPRFS mp2	28000	INS039					
● 12.245 H TVR Cultural	28000	● 12.428 H KISS	28000	INS040					
● 12.245 H FocusSat	28000	● 12.428 H NRK AN Reserve	28000	INS041					
● 12.303 V SVT1	27800	● 12.428 H NRK P1 Reserve	28000	INS042					
● 12.303 V SVT1 Gävle	27800	● 12.428 H Radio One	28000	INS043					
● 12.303 V SVT1 Gävlelän	27800	● 12.428 H Scandinavian Satelli	28000	INS044					
● 12.303 V SVT1 Jämtland	27800	● 12.428 H Ylesat 1	28000	INS045					
● 12.303 V SVT1 Jönköping	27800	● 12.428 H Ylesat 2	28000	INS046					
● 12.303 V SVT1 MittiNytt	27800	● 12.428 H DR1 Syd	28000	INS047					
● 12.303 V SVT1 NordiNytt	27800	● 12.428 H DR2 Syd	28000	INS048					
● 12.303 V SVT1 SmländsNytt	27800	● 12.428 H DTV2 (Cable)	28000	INS049					
● 12.303 V SVT1 SydNytt	27800	● 12.428 H NRK1 Reserve	28000	INS050					
● 12.303 V SVT1 Talande Textrem	27800	● 12.428 H TV Finland	28000	INS051					
● 12.303 V SVT1 TrärsNytt	27800	● 12.428 H Nautil	28000	INS052					
● 12.303 V SVT1 VästernNytt	27800	● 12.428 H The Poker Channel	28000	INS053					
● 12.303 V SVT1 VästNytt	27800	● 12.428 H TV Patriot	28000	INS054					
● 12.303 V SVT2 Gävle	27800	● 12.428 H DR Klassisk Syd	28000	INS055					
● 12.303 V SVT2 Jämtland	27800	● 12.428 H DR P1 Syd	28000	INS056					
● 12.303 V SVT2 Jönköping	27800	● 12.428 H DR P2 Syd	28000	INS057					
● 12.303 V SVT2 MittiNytt	27800	● 12.428 H DR P3 Syd	28000	INS058					
● 12.303 V SVT2 NordiNytt	27800	● 12.428 H DR P4 Syd	28000	INS059					
● 12.303 V SVT2 SmländsNytt	27800	● 12.428 H EKPRFS mp2	28000	INS060					
● 12.303 V SVT2 SydNytt	27800	● 12.428 H KISS	28000	INS061					
● 12.303 V SVT2 Talande Textrem	27800	● 12.428 H NRK AN Reserve	28000	INS062					
● 12.303 V SVT2 TrärsNytt	27800	● 12.428 H NRK P1 Reserve	28000	INS063					
● 12.303 V SVT2 VästernNytt	27800	● 12.428 H Radio One	28000	INS064					
● 12.303 V SVT2 VästNytt	27800	● 12.428 H Scandinavian Satelli	28000	INS065					
● 12.322 H TV 2 Norge	27800	● 12.428 H Ylesat 1	28000	INS066					
● 12.322 H Al Jazeera English	27800	● 12.428 H Ylesat 2	28000	INS067					
● 12.322 H JIM	27800	● 12.428 H DR1 Syd	28000	INS068					
● 12.322 H Playhouse Disney	27800	● 12.428 H DR2 Syd	28000	INS069					
● 12.322 H Rikstoto Direkte	27800	● 12.428 H DTV2 (Cable)	28000	INS070					
● 12.322 H Subtv	27800	● 12.428 H NRK1 Reserve	28000	INS071					
● 12.322 H TV Norge	27800	● 12.428 H TV Finland	28000	INS072					
● 12.322 H P4	27800	● 12.428 H Nautil	28000	INS073					
● 12.322 H Radio Oslo	27800	● 12.428 H The Poker Channel	28000	INS074					
● 12.399 H Nelonen HD	28000	● 12.428 H TV Patriot	28000	INS075					
● 12.399 H Nautil	28000	● 12.428 H DR Klassisk Syd	28000	INS076					
● 12.456 V Discov Science	28000	● 12.428 H DR P1 Syd	28000	INS077					
● 12.456 V Discov TralLiv	28000	● 12.428 H DR P2 Syd	28000	INS078					
● 12.456 V Discov World	28000	● 12.428 H DR P3 Syd	28000	INS079					
● 12.456 V Motors TV	28000	● 12.428 H DR P4 Syd	28000	INS080					
● 12.456 V Nick-(S)-VH1 TS	28000	● 12.428 H EKPRFS mp2	28000	INS081					
● 12.456 V Nick-VH1 TS	28000	● 12.428 H KISS	28000	INS082					
● 12.456 V Nickelodeon	28000	● 12.428 H NRK AN Reserve	28000	INS083					
● 12.456 V Nickelodeon (S)	28000	● 12.428 H NRK P1 Reserve	28000	INS084					
● 12.476 H Eurosport	27800	● 12.428 H Radio One	28000	INS085					
● 12.476 H Eurosport 2	27800	● 12.428 H Scandinavian Satelli	28000	INS086					
● 12.476 H TV-bijlet1	27800	● 12.428 H Ylesat 1	28000	INS087					
● 12.476 H TV-bijlet 2	27800	● 12.428 H Ylesat 2	28000	INS088					
● 12.476 H TV4 Guid	27800	● 12.428 H DR1 Syd	28000	INS089					
● 12.476 H TV4 Komedi	27800	● 12.428 H DR2 Syd	28000	INS090					
● 12.476 H TV4 Science Fiction	27800	● 12.428 H DTV2 (Cable)	28000	INS091					
● 12.476 H SVT1	24500	● 12.428 H NRK1 Reserve	28000	INS092					
● 12.476 H SVT1 Gävle	24500	● 12.428 H TV Finland	28000	INS093					
● 12.476 H SVT1 Gävlelän	24500	● 12.428 H Nautil	28000	INS094					
● 12.476 H SVT1 Jämtland	24500	● 12.428 H The Poker Channel	28000	INS095					
● 12.476 H SVT1 Jönköping	24500	● 12.428 H TV Patriot	28000	INS096					
● 12.476 H SVT1 MittiNytt	24500	● 12.428 H DR Klassisk Syd	28000	INS097					
● 12.476 H SVT1 NordiNytt	24500	● 12.428 H DR P1 Syd	28000	INS098					
● 12.476 H SVT1 SmländsNytt	24500	● 12.428 H DR P2 Syd	28000	INS099					
● 12.476 H SVT1 SydNytt	24500	● 12.428 H DR P3 Syd	28000	INS100					
● 12.476 H SVT1 Talande Textrem	24500	● 12.428 H DR P4 Syd	28000	INS101					
● 12.476 H SVT1 TrärsNytt	24500	● 12.428 H EKPRFS mp2	28000	INS102					
● 12.476 H SVT1 VästernNytt	24500	● 12.428 H KISS	28000	INS103					
● 12.476 H SVT1 VästNytt	24500	● 12.428 H NRK AN Reserve	28000	INS104					
● 12.476 H SVT2	24500	● 12.428 H NRK P1 Reserve	28000	INS105					
● 12.476 H SVT2 Gävle	24500	● 12.428 H Radio One	28000	INS106					
● 12.476 H SVT2 Gävlelän	24500	● 12.428 H Scandinavian Satelli	28000	INS107					
● 12.476 H SVT2 Jämtland	24500	● 12.428 H Ylesat 1	28000	INS108					
● 12.476 H SV									



Alexandru Porosanu
TELE-satellite
Statistics Center
Romania

SatcoDX World Statistics

Top 60 Video PIDs Worldwide

Video PID	Feb 2008	Jan 2009	Feb 2009	2009/2008
512	344	348	348	1.16%
513	313	291	291	-7.03%
1160	309	280	280	-9.39%
308	290	257	257	-11.38%
33	253	212	212	-16.21%
514	273	211	211	-22.71%
516	196	196	196	0.00%
515	191	195	195	2.09%
4130	197	194	194	-1.52%
518	165	180	180	9.09%
1260	203	176	176	-13.30%
517	159	162	162	1.89%
519	149	151	151	1.34%
163	178	147	147	-17.42%
160	148	146	146	-1.35%
161	147	142	142	-3.40%
1360	162	139	139	-14.20%
521	137	129	129	-5.84%
162	127	123	123	-3.15%
520	133	121	121	-9.02%
165	114	121	121	6.14%
1760	168	115	115	-31.55%
101	111	112	112	0.90%
5922	105	112	112	6.67%
1460	129	108	108	-16.28%
166	98	105	105	7.14%
4194	131	103	103	-21.37%
169	84	101	101	20.24%
167	94	99	99	5.32%
4386	81	98	98	20.99%
524	62	97	97	56.45%
4642	84	95	95	13.10%
164	107	94	94	-12.15%
110	94	91	91	-3.19%
6178	63	90	90	42.86%
522	81	90	90	11.11%
168	103	89	89	-13.59%
1660	97	89	89	-8.25%
5154	73	88	88	20.55%
4898	71	87	87	22.54%
257	80	86	86	7.50%
5666	78	86	86	10.26%
1110	89	84	84	-5.62%
1560	89	83	83	-6.74%
523	82	82	82	0.00%
171	79	81	81	2.53%
201	68	79	79	16.18%
6434	58	78	78	34.48%
5410	67	76	76	13.43%
170	84	74	74	-11.90%
501	61	73	73	19.67%
301	68	71	71	4.41%

Top 60 Audio PIDs Worldwide

Audio PID	Feb 2008	Jan 2009	Feb 2009	2009/2008
256	328	300	300	-8.54%
1120	296	262	262	-11.49%
4131	181	175	175	-3.31%
100	163	171	171	4.91%
660	163	154	154	-5.52%
640	126	154	154	22.22%
1220	183	152	152	-16.94%
650	157	146	146	-7.01%
80	142	133	133	-6.34%
84	135	126	126	-6.67%
1320	146	125	125	-14.38%
34	144	118	118	-18.06%
104	106	116	116	9.43%
36	112	112	112	-15.15%
88	116	112	112	-3.45%
700	107	111	111	3.74%
108	101	102	102	0.99%
5923	98	102	102	4.08%
102	105	101	101	-3.81%
4195	123	99	99	-19.51%
1420	114	99	99	-13.16%
92	102	95	95	-6.86%
680	104	94	94	-9.62%
96	102	93	93	-8.82%
670	155	92	92	-40.65%
112	95	90	90	-5.26%
4387	75	90	90	20.00%
400	112	89	89	-20.54%
202	78	88	88	12.82%
6179	60	87	87	45.00%
4643	77	87	87	12.99%
641	83	84	84	1.20%
258	88	84	84	-4.55%
1620	89	81	81	-8.99%
4899	68	81	81	19.12%
402	78	79	79	1.28%
116	82	78	78	-4.88%
644	86	78	78	-9.30%
5155	66	78	78	18.18%
1520	88	77	77	-12.50%
651	82	76	76	-7.32%
690	81	75	75	-7.41%
302	70	75	75	7.14%
5667	71	75	75	5.63%
5411	65	73	73	12.31%
652	60	72	72	20.00%
642	61	70	70	14.75%
502	53	70	70	32.08%
6435	53	70	70	32.08%
120	76	67	67	-11.84%
664	68	66	66	-2.94%
710	69	65	65	-8.00%
668	45	64	64	42.22%
6691	45	62	62	37.78%
648	47	62	62	31.91%
1720	64	62	62	-3.12%
1920	71	60	60	-15.49%

Transmission Types Worldwide

Type	Feb 2008	Jan 2009	Feb 2009	2009/2008
TV-DIG-CRYPT	10703	11349	11349	6.04%
TV-DIG	7471	6765	6765	-9.45%
R-DIG	4237	3722	3722	-12.15%
DATA	1954	2263	2263	15.81%
R-DIG-CRYPT	1392	1322	1322	-5.03%
TV-SD-CRYPT	308	446	446	44.81%
TV-HD-CRYPT	214	325	325	51.87%
TV-SD	78	102	102	30.77%
TV-HD	59	62	62	5.08%
TV-ANA	127	59	59	-53.54%
TV-ANA-CRYPT	57	45	45	-21.05%
R-ANA	64	25	25	-60.94%

Transponder Polarization Worldwide

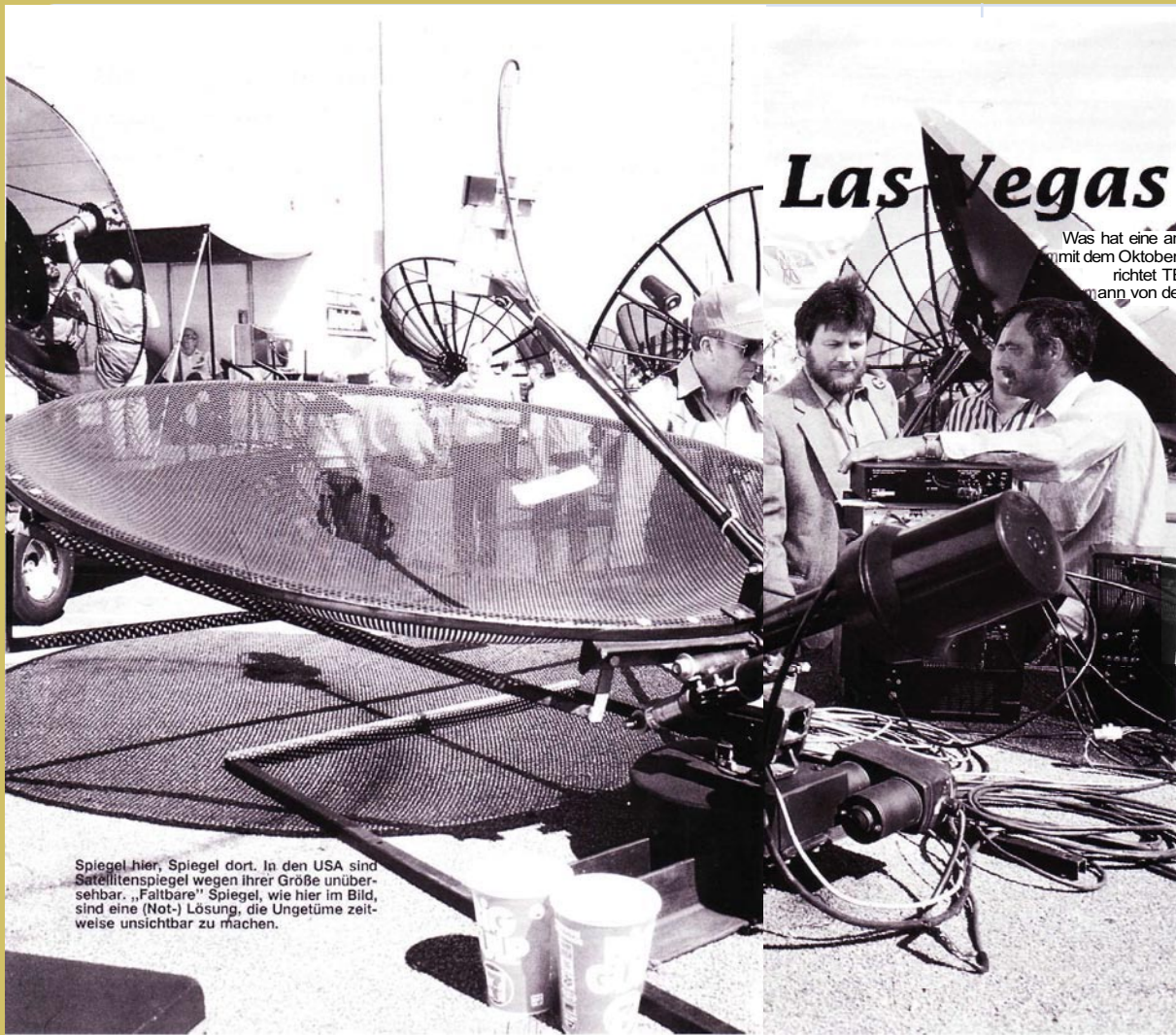
Polarization	Feb 2008	Jan 2009	Feb 2009	2009/2008
V	12155	11812	11812	-2.82%
H	11554	11112	11112	-3.83%
R	1881	2320	2320	23.34%
L	1151	1258	1258	9.30%

Top 100 Ku band Frequencies Worldwide

Frequency	Feb 2008	Jan 2009	Feb 2009	2009/2008
12.226	188	206	206	9.57%
12.149	150	171	171	14.00%
11.823	104	152	152	46.15%
12.399	138	142	142	2.90%
12.360	89	132	132	48.31%
12.341	86	131	131	52.33%
11.938	92	126	126	36.96%
12.418	99	122	122	23.23%
12.428	54	121	121	124.07%
11.804	63	120	120	90.48%
12.092	82	120	120	46.34%
11.747	59	118	118	100.00%
12.523	120	116	116	-3.33%
12.643	92	113	113	23.83%
12.303	127	107	107	-15.75%
12.628	106	106	106	0.00%
12.661	72	103	103	43.06%
11.785	143	102	102	-28.67%
11.766	80	101	101	26.25%
12.355	93	100	100	7.53%
12.265	17	100	100	488.24%
12.407	98	97	97	-1.02%
11.727	76	97	97	27.63%
12.207	200	97	97	-51.50%
12.253	61	96	96	57.38%
11.470	53	96	96	81.13%
12.574	132	96	96	-27.27%
12.282	79	94	94	18.99%
12.053	51	94	94	84.31%
11.919	59	93	93	57.63%
12.647	76	93	93	22.37%
12.688	87	92	92	5.75%
11.996	95	91	91	-4.21%
11.843	95	91	91	-4.21%
12.015	42	88	88	109.52%
11.010	83	87	87	4.82%
11.283	77	87	87	12.99%
11.630	33	86	86	160.61%
12.268	58	85	85	46.55%
12.472	53	84	84	58.49%
11.635	83	84	84	1.20%
12.284	34	83	83	144.12%
12.311	76	83	83	9.21%
12.486	37	83	83	124.32%
11.550	27	83	83	207.41%
12.012	97	83	83	-14.43%
12.370	63	80	80	26.98%
12.302	34	80	80	135.29%
12.545	59	80	80	35.59%
12.516	56	80	80	42.86%
11.130	15	79	79	426.67%
12.130	32	78	78	143.75%
12.726	19	78	78	310.53%
12.322	92	77	77	-19.79%
12.476	82	77	77	-6.10%
12.604	181	75	75	-58.56%
10.970	84	75	75	-10.71%
11.170	58	74	74	27.59%
12.723	35	74	74	117.65%
12.224	64	74	74	13.85%
12.729	19	74	74	289.47%
12.034	42	73	73	73.81%
12.608	15	72	72	380.00%
12.169	70	71	71	1.43%
12.380	93	70	70	-24.73%
12.563	61	70	70	14.75%
11.604	67	70	70	4.48%
12.501	57	69	69	21.05%
12.603	74	69	69	-6.76%
12.414	99	69	69	-30.30%
11.642	76	69	69	-9.21%
11.596	25	68	68	172.00%
11.862	55	68	68	23.64%
12.443	64	66	66	3.12%
11.954	53	66	66	24.53%
12.519	63	66	66	4.76%
12.565	65	66	66	1.54%
12.607	45	65	65	44.44%
12.581	49	65	65	32.65%
11.617	65	64	64	-1.54%
11.778	14	64	64	357.14%
12.644	26	63	63	142.31%
12.683	47	63	63	34.04%
11.900	69	63	63	-8.70%
10.972	64	62	62	-3.12%
11.623	47	62	62	31.91%
11.150	48	62	62	29.17%
12.456	82	62	62	-24.39%
11.075	40	61	61	52.50%

Top 40 Symbol Rate Usage Worldwide

Symbol Rate	Feb 2008	Jan 2009	Feb 2009	2009/2008
27500	9849	8537	8537	-13.32%
30000	2292	2768	2768	20.77%
20000	1840	2310	2310	25.54%
22000	1350	1045	1045	-22.59%
28000	545	518	518	-4.95%
28500	246	491	491	99.59%
19510	459	456	456	-0.65%
22500	316	434	434	37.34%
21096	410	410	410	0.00%
29270	276	286	286	3.62%
27800	277	276	276	-0.36%
28800	51	265	265	419.61%
29950	206	217	217	5.34%
24500	136	197	197	44.85%
26000	153	189	189	23.53%
27684	175	175	175	0.00%
26470	128	108	108	-15.62%
21300	54	106	106	96.30%
28100	74	104	104	40.54%
30800	106	104	104	-1.89%
22425	124	102	102	-17.74%
20600	81	96	96	18.52%
26667	115	92	92	-20.00%
3428	64	92	92	43.75%
40700	22	90	90	309.09%
33483	19	89	89	368.42%
25000	48			



USAT

Las Vegas 1988

Was hat eine amerikanische Satelliten-Show mit dem Oktoberfest zu tun? Aus den USA berichtet TELE-satellit Redakteur Rainer ...
mann von der weltgrößten Satelliten-show

Im Anflug auf Las Vegas vermag sich der europäische Besucher nicht darüber klar werden, warum die Satelliten-show unbedingt in dieser Wüstengegend ausgerichtet wird. Immerhin braucht der Europäer fast 24 Stunden, bis er sich in einem der Superhotels niederlassen kann. Erst hier wird ihm ein Service zuteil, der den weiten Weg vergessen läßt, denn jeder mit Gästen beschäftigte Bewohner ist nur mit dem Gedanken befaßt, es dem Besucher so einfach und bequem wie möglich zu machen.

Die von der SBCA und NSSA (Organisationen der amerikanischen Satellitenszene) angemieteten Räume des



Satellitenshow Las Vegas 1988: Spiegelwald auf dem Freigelände vor dem Bally's Hotel

"Bally's Hotel", einem riesigen Komplex, reichten gerade aus, die Show aufzunehmen. Angenehmer Nebeneffekt: Das "Bally's" ist instand, einen Großteil der Besucher und Aussteller unterzubringen. Prädestiniert ist das Hotel von Hause aus: es glänzte durch die weit und breit einmalige haus eigene Satellitenempfangsanlage mit sechs (!) fest ausgerichteten 3-4 m Antennen.

Desolate Verkaufslage des US Marktes

In amerikanischer Direktheit kam Präsident Rick Schneringer in seiner Empfangsrede ohne Beschönigung auf die desolaten Verkaufslage des amerikanischen Satellitenmarktes zu sprechen, die durch den Start der Verschlüsselung der Pay-TV Programme ausgelöst worden war. Der vor Jahren explosive Markt brach nach dem Umschalten etlicher Programme total zusammen. Selbst die

Spiegel hier, Spiegel dort. In den USA sind Satellitenspiegel wegen ihrer Größe unübersehbar. „Faltbare“ Spiegel, wie hier im Bild, sind eine (Not-) Lösung, die Ungetümme zeitweise unsichtbar zu machen.

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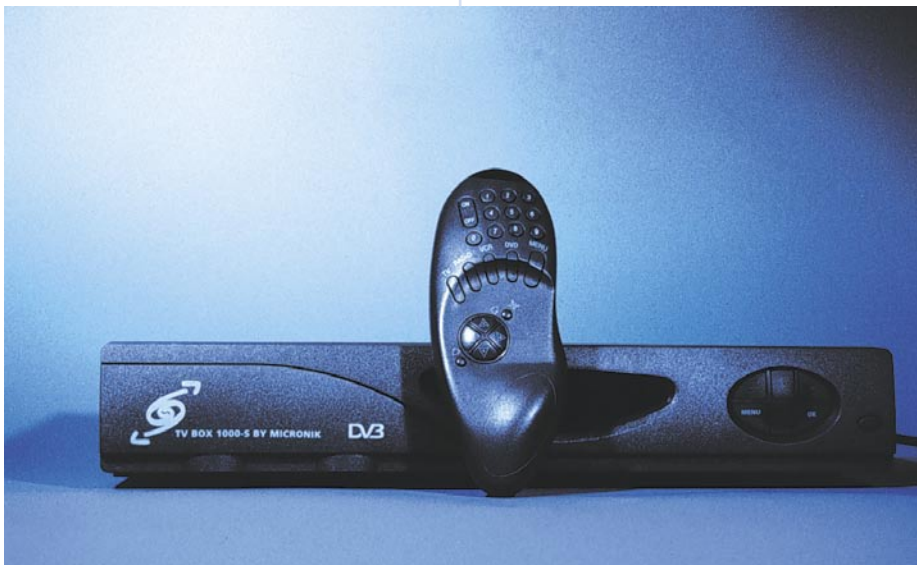
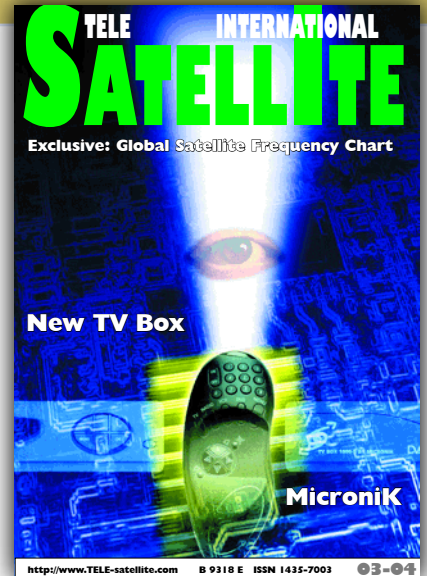
Edited by
Alexander Wiese

Mikronik TV-Box 1000-S

The digital era requires a lot of speed of manufacturers. What is a new development today will be history tomorrow. R&D departments are working overtime to keep track of all new developments. The benefit of doing everything in-house is shown by German Mikronik. They offer their new 1000-S receiver, which is a full in-house development. We have already published a test report about this receiver and did get a lot of feedback from buyers of this receiver. Mostly positive remarks designed to make a better receiver of it. This indicates that the 1000-S has been accepted by the market, otherwise people would not be

10 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 04/1999



interested in it. Very soon after this test, Mikronik released a new firmware version which could be uploaded by the users or by the retailer. One of the most nasty things in this digital era is the incompatibility of Conditional Access systems. For every pay-TV operator you will need either a separate box or a special Conditional Access Module (CAM.) This makes it so frustrating when moving around in Europe. A Dutch family moving to Switzerland can bring their receiver, but will not be able to watch any Swiss channel with it. So they will need a new, separate receiver. To overcome this situation, Common Access Modules were developed. But in practice it doesn't work all the time, as some encryption standards are still not available (Irdeto). Mikronik tried to solve this problem in a very creative way. They developed the so-called multi-access-module. It can hold up to four different PCMCIA modules and their smartcards. Whether it is Irdeto, Viaccess, Cryptoworks, Conax, Nagravision or even a complete new encryption standard, just plug it in and it is showtime. The firmware fully automatically detects the presence of the modules. Even fully integrated encryption systems can be inserted. Let's take a real-life example: a guy from Greece living in France with a Spanish wife and kids growing up together with their French friends. He doesn't want to live without the Hellas package. She wants to keep in touch with 'home' and have the Spanish package. The children want to talk to their friends about what was on French television last night. What to do? Buy three boxes? What a waste when you could solve this problem perfectly with the Mikronik 1000-S. Just plug in all the neces-

sary CAMs together with the needed smart-cards and there you are. Simple and effective. And still ready for the future, even in this situation there is still room for more. Without any CAMs at all, the 1000-S is still a very fine FTA receiver. So you can always turn to pay-TV later on, if you first decide to only FTA a while. This Multi-Access-Module (MAM) is the first to integrate a wide variety of encryption standards into one receiver. For Mikronik this means they are way ahead of the competition. For the buyer it means saving money.

Telecontrol's i-Box

We received a small black box and didn't really know what to think of it. Well, there was an IF jack on the back, but that was about it. So we rang our retired in-house tester out of the bed only to learn that he had received a similar thing quite some time ago. We took out the manual for our new TV fairy, but we still didn't know whether this was supposed to be an analogue satellite receiver with teletext, a teletext decoder with satellite TV and FM radio or something entirely different. After a while we found out why this piece of equipment is called TV fairy. For an annual fee of DEM 50 it can do a lot for you, your TV and your VCR (up to now, that applies only if you live in Germany.) Utilising the European radio data system (RDS) which was originally designed to allow FM radio stations to transmit data and information, the TV fairy helps you record your favourite TV shows without missing a second, it lets you check when your favourite movie will be on or which channel will offer films with your favourite actor within the next two weeks.





FSM 204 SAT-TV Spektrum-Analyser

A level meter and a spectrum analyzer are two of the costlier pieces of equipment that can easily drain an installer's budget. Therefore it is a logical consequence that only instruments are accepted that both serve well in the lab and up on the roof. These units must not only feature a built-in monitor and a rechargeable battery pack, but also a robust chassis that protects the sensitive electronic equipment. After all, the conditions up on a customer's roof can hardly be described as ideal for expensive equipment. Installers looking for a one-4-all unit also expect the analyzer to handle the whole frequency band which ranges from 40 to 850 MHz for terrestrial signals and from 950 to 2150 MHz for the satellite signals. Only if these demands are satisfied an installer will be able to set-up and check a client's antenna system which is used for FM, terrestrial TV and satellite signals. German company Doebis has recently introduced its JAEGER FSM204 portable level meter and spectrum analyzer which is offered at a competitive price and may even be bought by individual satellite enthusiasts and not only by professional installers. With a weight of 8.5 kg the FSM204 is not exactly a light-weight, but if one takes into account that the unit comes with a built-in monitor and a battery back that guarantees two hours of uninterrupted power supply the weight is somewhat acceptable. The terrestrial frequency range extends from 45 to 862 MHz and the IF range for satellite signals goes from 950 to 2150 MHz. The FSM204 is primarily used for the evaluation of analog satellite signals. We did some preliminary tests on a purely digital satellite (like the two DFS of Deutsche Telekom) and were able to meter the signal strength of digital bouquets, if the peaks on the spectrum analyzer are metered. However, it is not possible to determine the quality of digital signals. After all, comparable units for digital signals are twice as expensive.

Antennas in Poltava

Poltava is a humanitarian center of Ukraine. About 380 thousands citizens of Ukraine now live in Poltava. Antennas on the walls and roofs of houses obviously illustrate the interests of modern Poltava inhabitants on the boundary between 20th and 21st centuries.



The overwhelming majority of Poltava inhabitants watch the programs of national TV of Ukraine, which are relayed from Poltava and Krasnogorovka (about 80 kms from Poltava) in VHF and UHF band: "Ut-1", "Ut-2", "Inter", "ICTV", "UTA", "STB", and also Kharkov channel "Simon" and local channel "Ltava". The off-air reception is very cheap. The air antenna, most popular in Poltava, - "shaggy" VHF/UHF antenna of Polish manufacturing with the built-in amplifier and included power supply unit. Its value on the city market is about \$11. For 3-4 TV sets connection a standard 15-20 dB divider TAP is used, sometimes it is supplied by a divider "1:2", if not 4, but 5 places of TV set connection are made in the apartment (in the house). Satellite TV as the mass phenomenon exists in Poltava since 1995. Before that

time only few amateurs that had been abroad had the satellite systems. Main distributors of satellite systems in Poltava are the trade firms "Satellit", "Poisk", "Condor", "Promelektronika", "Voyage", Kiev "Romsat" representatives, and also few enthusiasts. As it is seen, the competition is strong. By the middle of 1998 there are approximately 700 satellite antennas total in Poltava and nearest neighbourhoods according to the experts' estimation, and each year this number increases by 200. If to accept 700 Poltava antennas as a unit, then about 10% of installed antennas are antennas with a 0,9 m diameter, about 50% of antennas with diameters 1,15 - 1,20 m, about 20% with a diameter 1,4 - 1,5 m and about 15% with a diameter 1,8 - 2,2 m and more. The largest satellite antennas in Poltava are 3,7 - 4 m, they are in a professional application.

Echostar & S.C.I.

After a roll call by Echostar and S.C.I. six European expert journalists undertook a journey all the way to the Scottish highlands and took over historic Blairquhan Castle for a night (and that included a fine supply of Scottish Whisky collected by the Hunter-Blair clan). On the next morning the leap from 18th century sobriety to 20th century technology couldn't have been more eye-opening, when we were transferred to S.C.I.-UK's new production facility in Irvin. Echostar Vice-President Richard Innemee presented his company's new strategy, and S.C.I. Vice-President Jim Ferguson took us on a tour around one of the 35 S.C.I. production sites where Echostar products will be assembled in the future. Founder and current CEO of Echostar, Charlie Ergen, entered the market in 1980 with the ambitious motto "a dish in every home". The established players in the US market at first ridiculed that goal, and in the European and Asian markets Echostar had yet to make a name for itself. However,



While in 1980 Charlie Ergen's vision was sneered at, in 1999 Ergen controls a company which is the only one in the world to offer both DBS satellite services and all the necessary hardware and software products. Furthermore Echostar operates a huge uplink center in the USA, owns four satellites with a DBS capacity of 90 transponders and offers complex solutions from planning to operating.

SCI

One of world's biggest manufacturer of electronics components for entertainment products, the military and medical equipment company was chosen as an ideal partner for Echostar. With an excellent name in medical equipment, SCI has proven to guarantee uncompromising quality in its 35 production facilities all over the world. That way regional Echostar products can be produced close to the actual end-market. Among the pluses of SCI are fixed prices, continuously high quality, and a reliable flow of information between the ordering company and the manufacturer. One of the best equipped SCI facilities can be found in Irvin and it was here that a TELE-satellite journalist was able to look at how an Echostar receiver is being assembled. All production stages are carried out automatically, except for the final check and the packaging which are done manually. At the final check the receiver is brought to life for the first time. While many manufacturers only carry out a quick test, at SCI in Irvin all receivers are put to a test that simulates six hours of continuous operation in order to detect any weaknesses or malfunctions. All units that are not 100% OK are repaired manually and then enter the production and evaluation process again so that only top-quality units leave the site. SCI is also proud of its excellent reputation as a PC manufacturer. It would be wise to check if the motherboard features the SCI logo before buying a new computer. Unfortunately the sales staff at your electronics store will not be too happy with such a request. As far as military equipment is concerned, a look into the famous Janes Handbook of Military Communications reveals that quite a few units are SCI products. In the satellite receiver business a complete range of international companies cooperate with SCI, so that our TELE-satellite journalist came across units that are produced for companies like Philips, Nokia, HTS and of course Echostar.

Echostar's competitors in the USA started to worry as soon as the first receiver with an integrated positioner was introduced by Echostar and kickstarted the company from newbie to market-leader status. In 1989 Echostar decided to conquer the old world and opened regional headquarters in the wharf district of Rotterdam, only to move to a new and generously laid out center in Almelo (Netherlands). The major asset in this phase of expansion was the SR4500 receiver, which was later replaced by the new SR5500 which surprised both importers and consumers. The following years saw the introduction of two less successful follow-ups to the SR5500, until the SR8700LT was put in the market and was as good a seller as the legendary SR5500. However, for no particular reason the high-end segment of the receiver market idled for quite some time and loyal Echostar enthusiasts almost felt neglected, since Echostar obviously had started to focus on its satellite business which included the company's first DBS satellite. It came as a big surprise that - coinciding with our Scottish weekend - Echostar introduced the sophisticated AD-2000IP receiver which is

designed to follow the 8700LT's footsteps as a state-of-the-art unit for the high-end market. While Echostar is back on track in the receiver business the whole company expanded dramatically over the past few years and has been restructured to accommodate all sectors of the business. In Colorado, Wyoming and The Netherlands Echostar serves as an operator of a whole fleet of satellites, Pay-TV provider and up- and downlink provider. These different branches are now bundled into the following groups: DISH-NETWORKS, ECHOSTAR TECHNOLOGIES CORP (ETC), ECHOSTAR SATELLITE SERVICES (ESS) and ECHOSTAR INTERNATIONAL CORP (EIC). With these services Echostar is able to offer a comprehensive range of products and services ranging from data and educational services to turnkey satellite solutions for Africa, Europe and the Middle East. One example of the enormous expertise of Echostar is the second digital platform in Spain which is a typical turnkey product. The company is currently working on broadband internet access (ICEbox project) and the MediaStream network control system in cooperation with MEDIA4.



Sagem ISD 3100

Recently we received a new digital set-top box which supports the Open-TV standard. It's a French receiver, called Sagem ISD 3100, and it comes with a built-in Viaccess decoder. Perhaps you have already seen how many channels are using Viaccess today, not just in France. A good example is the Russian NTV for which smartcards are very easy to get. Although the ISD 3100 is basically a Free to Air receiver, the Viaccess integration is a very welcome addition. In fact, the Sagem is a very back to the basics receiver, without any unnecessary gadgets. Operation is very simple, but done to keep it clear for a larger audience. The ISD 3100 is in fact designed for reception of two European satellite systems: Astra and Hotbird, or perhaps a Scandinavian satellite as well. On the front you will only find the emergency buttons together with a LED indicating the status of the receiver. Of course, there is a smartcard slot for the Viaccess system. At the back, two Scart (Peritel) connectors take care of the connections to the rest of your equipment. Together with two phono jacks for supplying your stereo with sound. Additionally a phono connector with composite video can be used to supply an extra monitor with the video signal. To update the firmware or settings, an RS-232 interface is present. An analogue or second digital receiver can be connected to the LNB output. There is no RF modulator built-in. Looking at the extensive on-screen display we believe it's even the better. The remote control is not just an everyday one. The numeric keys are shaped like the numbers itself, making it easy to find them even if it is dark. Since Open-TV is supported, there are a few buttons more on the remote. But grouped together and marked with colours, they pose no problem in everyday use where you will only use the numeric keys and the ones beyond. Fear of the remote control, of any, disappears very rapidly when using it for just a short time.

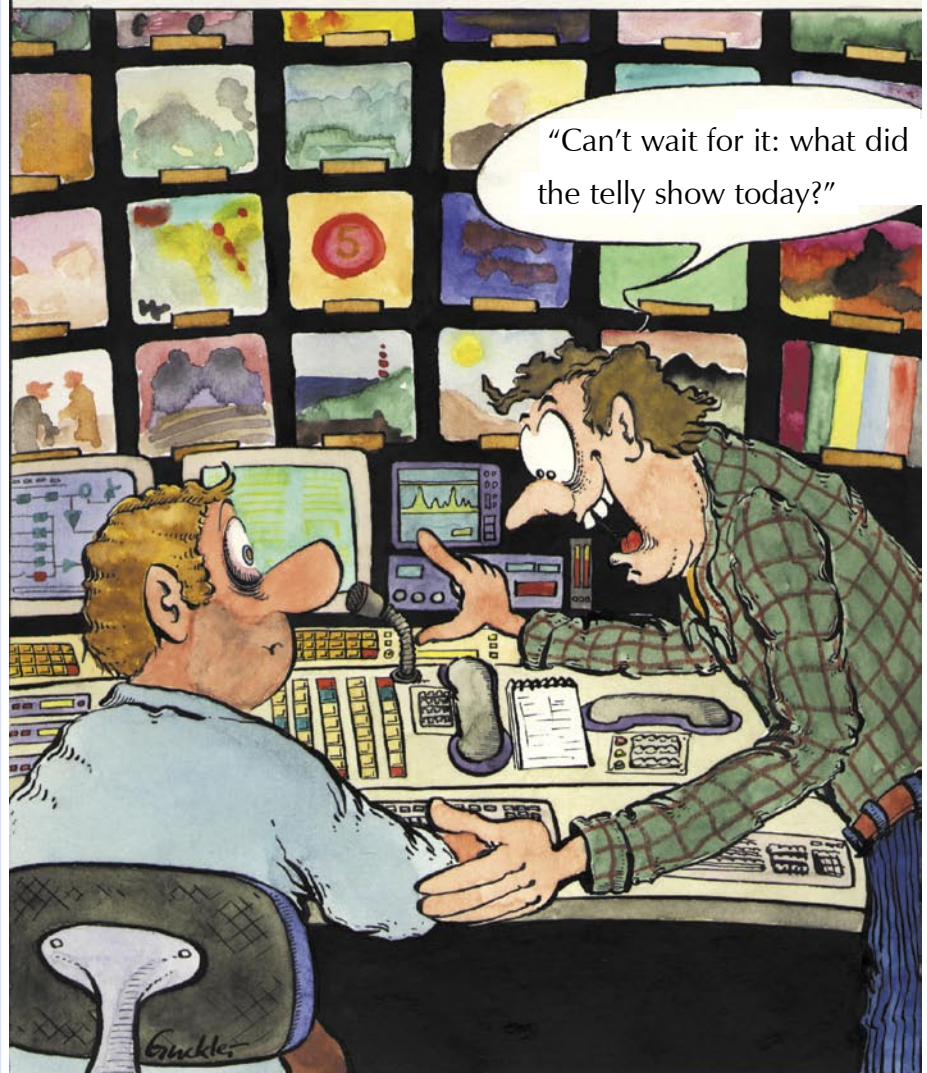
Measuring analog and digital, now and in the future

Buying a measuring device for signals is always a serious job. Not because it is expensive, but more so because it must be in operation for many years. Newly bought measuring devices should, therefore, also be able to process digital signals. The new R.O.V.E.R. SDA-4 & 5 Digisky coming from Italy is capable of measuring analog and digital QPSK satellite signals. The input can handle signals from 950 up to 2150MHz. And the channel memory of 200 channels should be enough for average use. Besides the signal strength it also shows the frequency. It can measure the error rate of digital signals and when channel IDs are integrated in the data stream the names are visible on-screen.



One of the more rare functions is the possibility to measure the signal/noise figure for analog signals. Other receivers can be connected to this unit without any loss in signal strength or quality. A Digisky is yours for only DM 1.600 (incl. VAT). It only weighs 1.2kg and can do its job up to 3 hours on its battery. When the battery runs dry it warns you perfectly on time.

The other day, the new shift arrives at work in the satellite control station



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