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الشركة الألمانية التي بدأت التوسع
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- ✓ Rear Mounted USB 2.0
- ✓ Silver or Black

Based on the HIGHEST Rated Satellite Receiver...ever! (92%)

The TM-5200 D USB reviewed by What Satellite Magazine (Jan 2008)

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super

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TM-5300 D+ USB
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with Built-in Smart Card Reader

TM-5400 CI+ USB
super

with Card Reader + Common Interface

TM-5600 CI USB
super

with Common Interface

High-Definition

Satellite & Terrestrial Receiver

TM-6900 HD COMBO Super



- ✓ Based on the Award Winning TM-6900 HD COMBO
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- ✓ Very Fast & Detailed Hardware Blind Search
- ✓ RF Modulator
- ✓ eSATA
- ✓ Ethernet Communication Port

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- Timeshift
- MP3 & JPEG Playback & Data/Software Transfer by USB 2.0
- 1080i, 720p, 576p & 576i
- MPEG-2, MPEG-4 & H.264
- Built-in Upscaler to Improve Standard Picture Quality
- 1 Smart Card Reader & 2 Common Interface (CI)
- VFD Display
- Silver or Black

GETTING ON WELL

OPENSAT 



XT9500HD - High Definition Digital Satellite Receiver

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Estimados Lectores



En lo que se refiere a la libre recepción de satélite por cada ciudadano, China ha sido mucho tiempo el último territorio desconocido. Pero es posible que allí, las cosas van a cambiar este año. La recepción del satélite individual se hará posible con la introducción del China DTH que también quiere decir tecnología de recepción de satélite llevada a un mercado muy grande de consumidores. Sin embargo, China ha decidido lanzar su propia nueva norma digital: ABS-S. Se puede leer más sobre sus aspectos técnicos de esta historia a lo largo de esta edición.

Así que esto significa que las distintas normas digitales todavía se están desarrollando. Recuerdo muy bien las acaloradas discusiones que nosotros en tuvimos TELE-satélite hace muchos años, cuando la TV digital por satélite en MPEG-2 aparecía en el horizonte. Muchos de nosotros temimos que en el futuro sólo hubiera una sola variedad de receptores, porque eran digitales o no. Muchacho, ¡estábamos equivocados! Si se mira la diversidad de la tecnología digital actual, supera todo lo que nosotros podríamos soñar en la vida de en la edad analógica.

Lo mismo ha resultado para las diferentes normas que pueden integrarse en un solo producto. Por ejemplo, nosotros esperamos justificadamente que nuestros brillantes receptores de HDTV con DVB-S2 puedan así de fácilmente con las transmisiones regulares en DVB-S. Así que probablemente pasará mucho tiempo hasta que la nueva norma ABS-S china también se integre en los receptores de DVB-S/S2. Simplemente prepárese para que las cajas de embalaje de los receptores estén aun más decoradas con etiquetas de los nuevos logotipos y marcas de fábrica.

La ventaja más grande del ABS-S es que es un desarrollo muy reciente, lo que significa que trabaja más eficazmente que el DVB-S. Ése es el lujo de ser paciente y esperar. La tecnología progresa todo el tiempo y en la mayoría de los casos una nueva norma significa también un

paso adelante. En cualquier caso, será interesante observar si el ABS-S ganará una posición establecida en los mercados fuera de China. Por alguna magnitud, esto dependerá de la política de la autorización del uso del ABS-S, pero principalmente estará definida por los propios fabricantes chinos que pueden llevar más allá una reducción de costes ya que tienen el gran mercado chino justo delante del escalón de la puerta. El ABS-S podría resultar ser un competidor frente al DVB-S2 que también viene con la promesa de una reducción de costes gracias a sus más bajos requisitos de ancho de banda.

El lanzamiento del China DTH al mismo tiempo abre el mercado chino para todas las otras compañías de satélite, aunque sin embargo la mayoría de los operadores ya están localizados en China. Lo se puede afirmar con seguridad es que la industria del satélite ganará un ímpetu adicional en sí misma ya que las noticias son buenas en la fase de contracción económica actual. Todo lo que se va a mostrar es que siempre hay espacio para la expansión, tan sólo se tiene que ofrecer el producto adecuado en el momento adecuado para el mercado adecuado.

**Sinceramente,
Alexander Wiese**

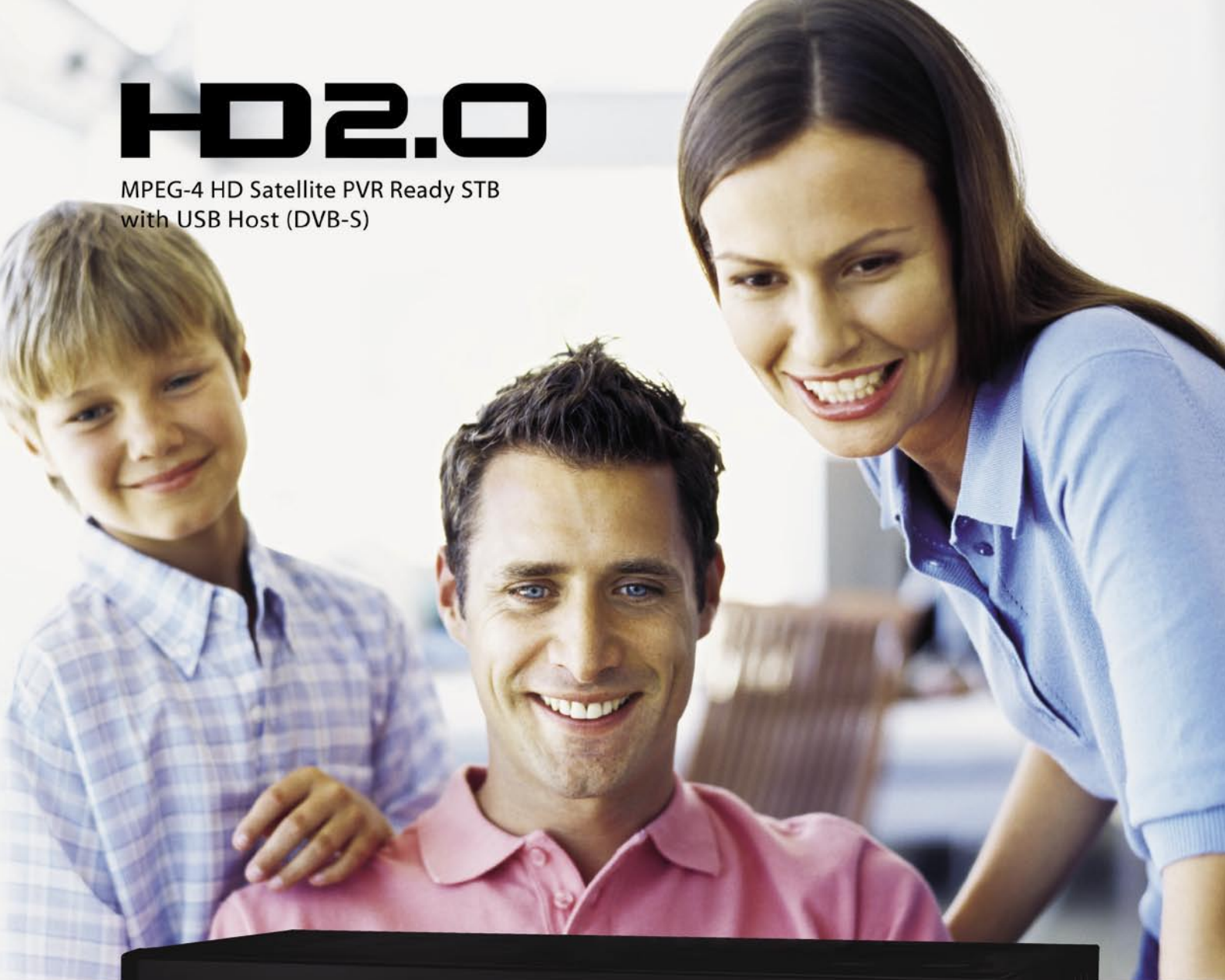
P.D.: Mi canal de radio favorito de este mes es la Pepermint FM, una nueva estación de Alemania en el Astra 19.2° Este (12.633 H) con una gran variedad de música sin parar, sin noticias y sólo algún pedazo ocasional de su misma promoción con el eslogan de la estación 'Manténgase fresco y joven'.

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HD2.0

MPEG-4 HD Satellite PVR Ready STB
with USB Host (DVB-S)



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

Dolby Digital Down-Mix Output Support (*Optional)

Conax CAS v7 Embedded Chipset Pairing

Cable HD Ready Support (for Cable STB only)

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

Software Upgrade via USB 2.0

YPbPr, CVBS, HDMI, SCART Video Output Support

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

Easy and Fast Auto Programming, Intuitive User Interface

Multi Language Support(Customer Option)

HD2.0 Slim



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TOPFIELD **NEW** Topfield Media Solution



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 at 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 **NEW** 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



TOPFIELD **NEW** 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

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

emitor 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 dBμV
- Shows the complete spectrum in one picture
- Presents one channel readout with high resolution or six channels simultaneously

Satlook Micro G2 **NEW**



- 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 **NEW**

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

HUMAX F3 FOX CI



Digital Satellite Receiver with CI Slot

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

NETWORK streaming client

EMANVISION EV-8000S



- Linux Operating System
- Ethernet Card 100 Mbit
- USB 1.1 Host Controller
- IBM Power PC ("STB04500/Pallas")
- Recording 2 channels simultaneously while playback another from HDD and many more features

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

Satlook NIT Color **NEW**



- 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)

Türkçe konuşan personele sahibiz !

Мы говорим и даём консультации на русском языке!



HDTV Receiver Selection

HUMAX

iCORD



Twin HDTV PVR Receiver

- Recording 4 channels
- Time shifted recording for 2 hours
- Integrated 250 or 500 GB HDD
- 1080i, 720p, 576p, 576i video resolution
- AV File transfer by USB 2.0 port
- 2 Common Interfaces
- HDMI output

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

Motors

Aktuatoren/ Actuators

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



H-H Mounts

- 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

MAXIMUM

V-Series



AVAILABLE AS:

- V-1 Single
- V-11 Single + DiSEqC
- V-2 Twin
- V-40 Quattro
- V-4 Quad
- V-8 Octo
- V-21 Single Monoblock
- V-22 Twin Monoblock
- V-24 Quad Monoblock

Full LNB range MAXIMUM 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:

- SNH-031
- 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

- 40 mm
- 0,2 dB

Full LNB range MTI available from stock

Inverto digital-labs **NEW**

IDLP UST110-CUO10-8PP

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**

SELSAT H 10 D

- 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

Maintenance for your satellite installations

Heinz Koppitz

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



Exchanging the LNB

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

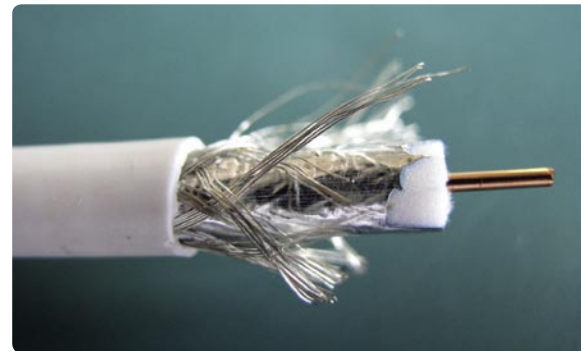
LNBs are subjected to the elements and their performance suffers if moisture cannot be kept outside. But even if your old LNB is still fine it's well worth getting a modern universal LNB with a low noise figure (0.3 dB), which will improve the threshold of your system in any case.



Single screening cable ■

Exchanging the coax cables

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



Double screening cable ■

Aligning the satellite antenna

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

SatFinder ■





Difference from your competitors



Colorful Mesh Dish as you need

- Antenna Dish size : 4.5', 5.0', 5.5', 6.0', 7.0', 7.5', 10' ➔ As you need
- Made from Aluminum material, ➔ Anti-Rusted
- Polyester Powder Colour Coating, ➔ Longer time for Outdoor Using
- Selectable in Black, Red, Pink, Orange, Yellow, Violet, Blue, Silver
- Available for Fixed mount type and Movable mount type
- Special Discount prices for Big Volume and our dealers
- Quality Assurance by Thai Export Promotion Department (Thailand Brand)



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Integrated LNB CKU Band
with DiSEqC Switch
LNB CKU-01 Model

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

Jacek Pawlowski

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

We all know that the standardization is a very useful practice. However, it happens really rarely that one thing is accepted all over the world. For example analog TV had always a few standards in different regions of the world (PAL, NTCS, SECAM, D2-MAC). Digital TV is no exception. Of course, our readers are very familiar with DVB-S and DVB-S2 standards but these are not the only ones in use. There is also the DSS (DirectTV) in

North and South Americas and ISDB-S in Japan. They are similar to DVB but not identical. A receiver capable of receiving one standard is useless for the other. And now, China decided to establish the forth standard: ABS-S.

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

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

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

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

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

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



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



ZX 9 (Chinasat 9)
Photo: Thales Alenia Space



Dizipia DS4H-9160

Grande y Bueno

No podría tener un nombre más pegadizo, pero el DS4H-9160 del fabricante coreano Dizipia hace una declaración imponente de su tamaño y diseño. Este receptor de color negro liso metálico es más grande que la mayoría, con sus 43cm ancho, 28cm profundo y 6cm alto, y una caja metálica fornida que significa que también es bastante pesado. Su brillante frontal contiene un buen y claro visualizador de información de canales.

El telemando también es más grande de lo usual, midiendo 24x5cm. Puede programarse para operar una TV además del receptor, y fue rápido y fácil el colocar los códigos de nuestra TV del laboratorio de pruebas con los códigos en la parte de atrás del manual. ¡Por primera vez no tenía ninguna necesidad de estar buscando por Internet los códigos adicionales hacer este trabajo! El telemando está claramente etiquetado, y

las teclas tienen un clic definido cuando se aprietan, pero al mismo tiempo no necesitan demasiada presión para hacer la conexión a pesar de la repetición de las teclas. Complementando el clic asegurando cada botón, el botón de STB o de TV se enciende también cuando se aprieta un botón.

En el frontal ofrece otra notable característica es una rara rejilla de pequeñas luces

rojas. Con la primera mirada parecen sólo indicadores, pero son de hecho también botones, y a través de éstos pueden controlarse la mayoría de las funciones más importantes del receptor. El frontal se completa con dos ranuras de CI y un puerto de USB bajo un ala flexible a la derecha.

En la parte de atrás nosotros tenemos casi todas las opciones de conexión que noso-

tros podríamos necesitar. La entrada de antena para cada uno de los dos sintonizadores que tienen su correspondiente salida de paso a través, y el primer sintonizador puede llevarse al segundo si sólo se dispone de una entrada de antena. Includo en la caja tiene un trozo de cable para hacer simplemente esto. Están disponibles salidas HDMI y S/PDIF para el video y audio digital junto con las dos salidas Scarts más tradicionales, así como las salidas RCA para componente y video compuesto y audio estéreo. Aquí hay otro conector USB, así como una salida RS232 e incluso un puerto de Ethernet, aunque no hay información en el manual para explicar cómo se usa esto.

Ajustes

Conectar el receptor es de hecho muy fácil gracias a algunos útiles y claros diagramas en el manual. Está dibujado cada uno de los conectores y explicadas las opciones para cada uno de ellos. Un punto importante que puede causar la confusión es el siguiente: si sólo se usa una antena junto con el cable de paso a través, el



cambio de los canales mientras se está grabando sólo se limita a los canales en el mismo transpondedor. Las dos entradas de LNB también pueden ponerse a satélites diferentes, por lo que dos platos fijos independientes también son una opción, esto limitaría lo que puede mirarse y puede grabarse al mismo tiempo también.

La primera vez nosotros lo encendemos, nosotros directos al ayudante de la instalación dónde se coloca la hora local, el huso horario y los idiomas preferidos. Hay aquí opciones de idioma limitadas, para los menús en pantalla y los mensajes

ya que solo están disponibles simplemente en inglés, alemán y ruso. Extrañamente, la lista de idiomas para el audio y los valores por defecto de los subtítulos son diferentes. La opción aquí está entre inglés, alemán o francés. Entonces se va directo a la pantalla de búsqueda de canales dónde nuestros se fijan los satélites escogidos y se buscan por primera vez. Soporta DiSEqC para motores y se soporta USALS. Es un trabajo simple el decirle al receptor cual es la

situación con latitud y longitud para que pueda calcular las posiciones de los satélites que se desea recibir.

¡La lista de satélites pre-programada en el receptor es muy impresionante, hay alrededor de 170 de ellos! Yo les desafiaría a encontrar uno que ya no este allí, pero en el caso de que haya un nuevo satélite que aparezca en el cielo en el futuro, los satélites pueden revisarse,

agregarse y pueden quitarse como se necesite. Las frecuencias de los transpondedores para los satélites parecen también ser amablemente modernas.

La búsqueda de los canales es buena y rápida con una búsqueda completa del ASTRA 2 tomó simplemente ocho minutos. Una vez todos los canales están en la memoria, está presente una buena selección de funciones para permitir la corrección y la ordenación. La lista completa de canales se accede simplemente apretando la



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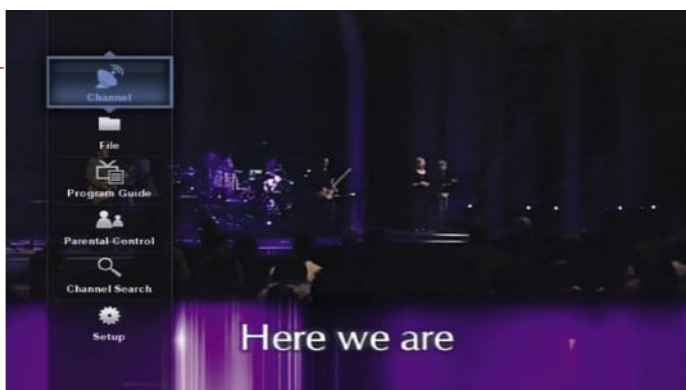


DIZIPIA DS4H-9160

Un receptor competente con muchas opciones de conexión y poderosas capacidades



DS4H-9160
HIGH DEFINITION DIGITAL SATELLITE RECORDER
TWIN HDMI TUNER DOLBY DIGITAL DIGITAL TV USB 2.0



El menú principal



La información del canal

“tecla de OK” al mirar la TV. Esta lista puede ordenarse rápidamente en orden alfabético, por el estado de encriptado/FTA, o puede llevarse a su estado original ordenados por el número de canal. Una tecla buena es la función de “zoom” dónde puede cambiarse en la lista de canales entre llenar la pantalla por completo o simplemente una parte del lado izquierdo, para que la imagen de la TV pueda verse al mismo tiempo.

Todas las funciones de corrección y de organización se acceden también de aquí qué es más fácil que tener que ir a un menú de especializado para la corrección. Pueden moverse los canales de arriba a abajo en la lista como se requiera. Pueden colocarse tantas listas de favoritos como se requiera, y es fácil de agregar y revisarlos.

Para aquéllos que tienen niños, existen dos opciones para el control paternal, la colocación tradicional de una contraseña o la habilidad de esconder completamente ciertos canales hasta que se entre la contraseña. ¡Además de esto, se puede limitar los canales visibles a solo la lista de favoritos o a una cantidad de tiempo antes de que el receptor se apague, para detener a los niños que se sientan todo el día delante de la TV! Como última opción

existe una función para limitar los programas permitidos por su valoración de edad, aunque esto depende completamente de la programadora que transmite la información correcta de clasificación de edad.

Las funciones de la unidad de disco duro

Como las transmisiones de HD usan muchos datos y el traslado de datos de alta velocidad es esencial, en el recep-

tor se usa una interfaz SATA en lugar del tradicional IDE. Nuestro modelo de ensayo desgraciadamente se proporcionó sin un disco instalado internamente, por lo que esto me dio por lo menos una excusa para probar conectar una unidad de disco duro externa a los puertos de USB.

No estaba muy seguro, pero incluso un disco USB bastante viejo conectado al puerto USB trasero me demostró que trabajaba casi perfectamente, incluso con la grabación de canales de HD. Hubo algunas veces dónde la imagen se hizo un poco pixelada pero sin embargo esperarías. Pero incluso era posible la visión de un canal de HD y grabar otro hacia el disco USB, pero no al 100% perfecto. Discos externos usan un sistema de archivos FAT32 normal, por lo que el guardado y la recuperación con una computadora es simple y segura. El administrador de archivos en el receptor es fácil de navegar para cualquiera que ha usado una computadora, con la estructura familiar de archivos y carpetas e incluso el “..” para regresar al directorio padre.

Una función automática de borrado puede usarse para

anular las grabaciones más viejas cuando se va agotando el espacio. Con este tipo de sistema, la pérdida no deseada de una grabación importante es siempre que no se tenga cuidado. Agradecidamente hay una opción útil para proteger las grabaciones individualmente para que no se anulen accidentalmente o por la función automática de borrado. El control paternal de grabaciones también se proporciona vía protección de la contraseña.

También está disponible el desplazamiento de tiempo para la TV en directo. Una pulsación simple del botón de pausa es todo lo que se necesita, después se tiene disponible el usual rebobinado y el control de avance rápido. Una función extra divide el programa grabado en segmentos como los capítulos de un DVD, haciendo la navegación mucho más fácil que tener que desplazarse a través del programa. Normalmente un programa se graba con un valor por defecto de tiempo de 30 minutos, pero esto puede cambiarse en los ajustes hasta un máximo de dos horas.

Una fuente de desilusión podría ser la falta de cualquier función de corrección. Siem-



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pre es útil incluso tener algún mando básico de revisión para sacar los anuncios de una grabación y es un martirio no disponer de algo para hacerlo. En cuanto a los entusiastas de los deportes, también extrañé una opción de la reproducir a cámara lenta que yo uso a menudo.

El uso cotidiano

Navegar alrededor de los satélites, canales y los menús del receptor es bastante fácil, aunque quizás no es realmente tan intuitivo como en algunos otros receptores que nosotros hemos visto. Por ejemplo, aun después de mucho de tiempo usando el receptor yo estoy desconcertado, puesto que hay un botón de "atrás" que realmente !no vuelve los menús al último nivel! La tecla "menú" no hace esto que se podría haber esperado. En cambio el botón de "salida" hace esto, por lo menos a veces, en otros momentos hace lo que dice y termina completamente el sistema de menús.

La calidad de la imagen es un gran problema para los receptores de HD y agradecidamente la calidad de HD deja al Dizipia por encima de las expectativas. Las imágenes de la definición normal también son escaladas para verse en una resolución de HD y esto también agrega una calidad extra a la imagen cuando se compara con la salida RGB Scart. Hay un botón especializado muy útil en el telemando para cambiar la resolución rápidamente.

Agregado a esto hay una idea tomada del mundo de los ordenadores. Después de que se cambie la resolución, aparece un mensaje en la pantalla para que se confirme que se puede ver la imagen. El valor por defecto es "no", para que si se llega a una imagen no visible, simplemente apriete el botón de OK y revierte a la resolución anterior. Están disponibles ambos modos progresivo y entrelazado, comprendido entre 480 a 1080 líneas.

Las transmisiones en Pantalla ancha son comunes estos días y es bueno ver que se disponen de todas las opciones aquí. Para ver las transmisiones de pantalla ancha en una pantalla de 4:3, están disponibles los modos letterbox y pan/scan. Y al revés, una transmisión 4:3 en una pantalla de 16:9 se puede mantener intacta con las barras negras en los lados, o hacer subir verticalmente como se requerido. Hay incluso para esto también un botón especial en el telemando, para cambiar entre el modo 16:9 y 4:3. Yo tenía dificultad para hacer trabajar el EPG, lo más probablemente porque exige una unidad de disco duro interior para guardar los datos. Asumiendo que trabajará apropiadamente en el modelo que se ponga a la venta, contiene todas las funciones usuales que nosotros necesitaríamos y esperaríamos. Pueden ponerse a grabar programas en el futuro, o simplemente para ser mirados. Como la lista de canales, el botón azul puede usarse



El menú de ajuste de TV |



EPG |

para hacer subir verticalmente el EPG y mostrarlo entre la pantalla completa o simplemente una parte de ella. Los programas puestos para ser grabados pueden tener un control paternal colocado en el momento de hacer la selección. También está disponible el temporizador de grabación tradicional.

El surf de canales diario es rápido, y gracias a la buena aplicación del modo de pantalla ancha, se puede realizar sin molestias. Una vez ordenados en el orden deseado, o en listas de favoritos, es fácil el navegar alrededor de los canales. Encontré finalmente el uso de la tecla "volver", una pulsación rápida nos devuelve al último canal visto. El teletexto incorporado también está disponible , y tiene botones especializados

en el telemando para el acceso a los subtítulos y las bandas adicionales de audio.

Hay una nueva característica para los usuarios de sistemas de TV de pago. Como de costumbre, si se graba un programa encriptado, se necesita usar una tarjeta válida para mirar la grabación en una fecha posterior. Sin embargo hay una función de descifrado "especial". En un momento prefije su elección, por ejemplo mientras se está dormido, el receptor conseguirá convertir el archivo grabado y quitar la encriptación. Pero todavía se necesita una tarjeta válida para descifrar las imágenes.

Como hay dos conectores USB, es fácil de tener uno conectado a una unidad de



disco duro como yo lo tenía, y todavía acceder a otros dispositivos USB por el otro. Pueden reproducirse archivos de audio en formato MP3, e imágenes que parecen enormes en una gran pantalla de HD.

En conjunto

Éste es un receptor competente con muchas opciones de conexión y poderosas capacidades. Sin embargo, después de usarlo durante algún tiempo, empecé a sentirme como si condujera un coche deportivo con un limitador de velocidad incor-

porado, ya que el software no está totalmente desarrollado como él podría estarlo. A veces el navegar a través de los menús te hace sentir un poco cansado cuando no son tan intuitivos como aquéllos disponibles en algún otro PVR.

Por otro lado sin embargo, la buena actuación de la imagen, la facilidad del ajuste del tamaño y forma de la imagen con botones especializados y las ranuras de CI, hacen que sea un PVR cotidiano que hace el trabajo simplemente fino.

La Opinión del Experto

+

Dos sintonizadores con un rango comprensivo de platos y opciones de conexión, el control del desencriptado, completo soporte a la pantalla ancha y a las resoluciones del HD

Actualización del SW y grabación a PC vía Ethernet, grabación simultánea de 2 canales y reproducción a la vez de un archivo grabado

El cambio de tiempo inmediato

El OSD en color verdadero de 32 bits

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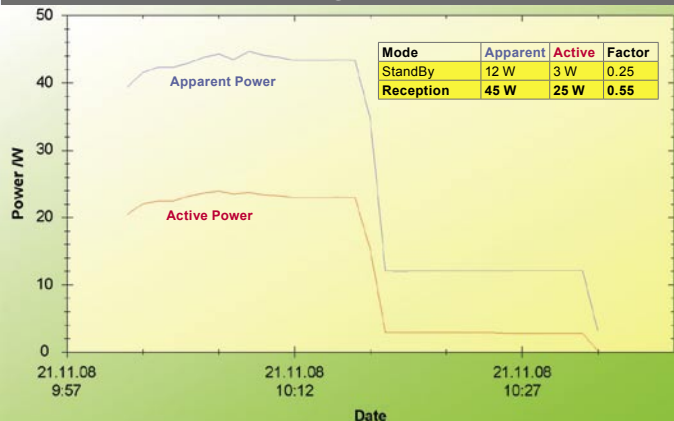
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Andy Middleton
TELE-satellite
Test Center
UK

-
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No se pueden editar las grabaciones

ENERGY DIAGRAM



La lista de los archivos grabados |



Reproducción de un archivo grabado |

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



Topfield TF6000PVR ES

Receptor del satélite con Escalador



La TV de alta definición ha empezado su triunfante desfile de victoria. Pero si se echa una mirada a las estadísticas de www.SatcoDX.com, se verá una realidad que defrauda: Por ejemplo, en el HOTBIRD a 13° este tiene un total de 29 canales de HDTV comparado a los 1355 canales de SDTV en PAL. Hay muchas razones de esto pero son principalmente de naturaleza financiera; el dinero del coste del ancho de banda y si un proveedor ya está ofreciendo el servicio en SDTV, ofrecerían sólo HDTV como una característica añadida. Para los usuarios finales esto significa que a pesar de tener una moderna TV de pantalla plana, ellos todavía mirarán los canales SDTV y si se tiene una gran TV, la calidad de la imagen no podrá ser tan buena.

Este problema está reconocido por el fabricante surcoreano Topfield. Ellos propusieron una solución muy válida con su nuevo TF6000PVR ES. Es muy similar al TF6000PVRE salvo por una característica muy firme: el escalador.

El escalador toma la señal entrante y aumenta su resolución interpolando los pixeles perdidos de tal manera que no hay ya ninguna trama, algo que sería inevitable con un aumento simple de la resolución. Nosotros quisimos comprobar este receptor a través de una completa prueba para ver cómo trabaja realmente esta característica.

Cuando abrimos la caja nosotros notamos que el TF6000PVR ES realmente no era tan ancho como estábamos esperando. Mientras que el modelo predecesor TF6000PVRE tenía una anchura de 43cm, el TF6000PVR



ES no llega a los 38cm de ancho. Pero este menor tamaño no deja nada de su elegancia.

En el centro del frontal hay un visualizador VFD alfanumérico de muy fácil lectura; al lado de este hay tres botones que sirven para el control del receptor si se extravía el telemando. Los cuatro botones son para el control de volumen y el cambio de valores del canal en forma de un círculo de color plateado. Esto junto con el resplandeciente botón azul de reposo parece bastante impresionante.

Detrás de un ala flexible en el lado de la derecha pueden encontrarse dos ranuras de CI para la recepción de la TV de pago. Pueden aceptar todos los típicos módulos como Irdeco, Viaccess, Seca, Conax, Nagravision o Cryptoworks y trabajan sin ningún problema. Como nosotros hemos esperado, el panel trasero del TF6000PVR ES brilla con una variedad de posibilidades de conexión. Además de las entradas IF de satélite y la salida a través de los dos sintonizadores, se encontrará también una salida HDMI, dos conectores Scart, tres salidas RCA para el video y las salidas de audio estereofónico, una salida de S-video, una salida de audio digital óptica, un conector USB 2.0 y por último pero no menor una interfaz Ethernet. Aunque estos días ya no se usa demasiado, también tiene disponible no obstante una interfaz de RS-232 para la conexión a un PC.

El telemando incluido se asienta muy bien en su mano y está

apropiadamente etiquetado con todos los botones dentro del alcance fácil. Y, similar al propio receptor, nos gustó también el diseño del telemando. El manual usuario, como se esperaba de Topfield, está muy claramente escrito, suficientemente ilustrado donde se necesita y contesta cualquier pregunta que puede aparecer repentinamente mientras se usa el receptor rápidamente y de una manera sencilla.

El Uso cotidiano

Después de encender por primera vez el receptor, la nueva caja de Topfield empieza mostrando el menú Principal y por eso exige al usuario que prepare la caja a sus necesidades específicas, como emparejarlo a su sistema de antena, antes de usarlo por primera vez. No hay ningún ayudante de insta-

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lación, pero la realidad es que realmente no se necesita ya que la estructura del menú del Topfield está muy lógicamente organizada de tal manera que incluso un principiante debe poder fácilmente encontrar su opción.

La primera cosa sería preparar el idioma de OSD en los ajustes del sistema. El TF6000PVR

ES viene con una selección para escoger: alemán, inglés, francés, español, árabe, griego, turco, danés, sueco, noruego, holandés, polaco, persa, finlandés, checo y búlgaro. Una vez se ha seleccionado el idioma, el usuario puede seguir las entradas individuales del menú.

Simplemente como otros receptores de satélite, el



El menú principal del TF6000PVR ES muy bien colocado



TF6000PVR ES también se puede poner automáticamente en hora vía el satélite. Al contrario de la mayoría de los modelos de los competidores, Topfield proporciona varias posibilidades diferentes de ajuste. Por ejemplo, la fuente de ajuste de tiempo puede limitarse a los canales encriptados o incluso a transpondedores individuales. Desgraciadamente, esta característica es necesaria considerando que muchos proveedores de las principales posiciones DTH necesariamente no incluyen la hora correcta con sus transmisiones así que el receptor tiene una información de tiempo incorrecta. Incluso puede activarse la hora oficial y el desplazamiento de luz del día o pueden desactivarse con la pulsación de un botón; ya no se tiene que preocuparse por el desplazamiento GMT. Claro que, también pueden ponerse la hora y fecha a mano. El TF6000PVR ES trabaja con un reloj de tiempo real, manteniendo la hora correcta aun después de un fallo de corriente y, diferente a otros receptores, empezará automáticamente las grabaciones del temporizador después de un fallo de corriente.

Gracias al escalador integrado, el TF6000PVR ES está idealmente preparado para el uso con las modernas Televisiones de pantalla plana. La caja

viene con una salida de HDMI integrada con la que el receptor convierte la señal de video con el escalador a 576p, 720p o 1080i. Para hacerlo aun más fácil, el usuario puede hacer estos ajustes usando directamente un botón especializado en el telemando sin tener que acceder a través de varias páginas del menú.

Si todavía se quiere conectar el nuevo Topfield a su TV con las salidas Scart, tiene a su disposición RGB, CVBS, S-video o YUV. La imagen puede ponerse a los modos de visualización de 4:3 así como 16:9. Adicionalmente está disponible para visualizar contenidos en 4:3 en una TV de 16:9. La Se soporta tanto PAL como NTSC, como el cambio de valores es automático entre los dos, la recepción de la TV americana en Europa y viceversa no es en absoluto un problema. Gracias al escalador integrado, también es posible ajustar el tamaño de la imagen a + / - 20% para que la imagen pueda emparejarse perfectamente cualquier TV que este en uso.

Una vez se han tenido en cuenta todos los ajustes, entonces el receptor puede hacerse compatible con cualquier sistema de antena existente. Puede proporcionarse a los dos sintonizadores con señales de satélite separadas, ésta sería la aplicación ideal,

o pueden compartir el mismo cable de entrada. La segunda variación nos lleva a restricciones significativas en un sintonizador al grabar un programa con el otro sintonizador. Estas restricciones no existirían si se usaran dos señales de satélite independientes.

El nuevo Topfield viene con una lista preprogramada de 156 satélites europeos, asiáticos y americanos. Las posiciones más populares en la lista son bastante modernas aunque no sería una mala idea una actualización general de las posiciones inactivas.

Apreciamos las numerosas posibilidades de los ajustes que naturalmente podrían ponerse sobre todo para cada satélite individual. Hay preprogramadas varias frecuencias del oscilador local (LOF) para poder escoger los valores, pero también está disponible una entrada manual si la entrada de LOF no esta en la tabla. Esto permite con este receptor usar LNBs no estándar. Están disponibles todos los protocolos DiSEqC para que puedan recibirse las posiciones del satélite múltiples. DiSEqC 1.0 permite la recepción de hasta cuatro satélites, con el protocolo 1.1 pueden conectarse antenas de multi-enfoque con hasta 16 LNBs y también hay 1.2 y 1.3 (USALS) para el control de antenas motorizadas.

Una vez han sido fijados estos parámetros, el próximo paso sería llenar la capacidad de memoria del receptor de 5000 canales (TV 3500, Radio 1500). De esta tarea puede ocuparse no sólo con una búsqueda manual, y por supuesto, también con una búsqueda automática con la ayuda de los datos de transpondedor pre-programados. Hay también una búsqueda extendida con la entrada manual de PID. Como en todas las búsquedas, también puede limitarse la búsqueda en red a solo canales FTA o canales encriptados.

La velocidad de búsqueda del receptor también era bastante impresionante: casi se necesitaron cuatro minutos examinar nuestro satélite de prueba de más de 100 transpondedores. No se olvide sin embargo que el TF6000PVR ES no es un receptor de HDTV y por consiguiente no puede recibir señales en DVB-S2 y/o de MPEG4/H2.64. El receptor toma sin embargo señales normales SDTV y las escala para que pueda verse una imagen de mucha mejor calidad en una moderna pantalla de LCD o en una TV de plasma.

Después de examinar una de las plataformas de satélite DTH más grandes, es muy probable que la lista del canales se llene con centenares de canales que el usuario ni siquiera



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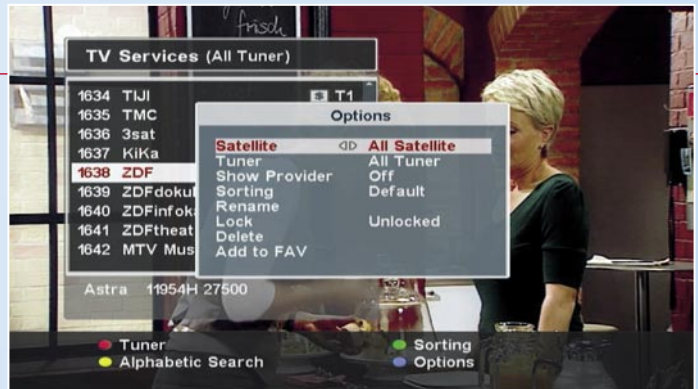
estuviera interesado, porque por ejemplo, están encriptados y no se pueden visualizar. Porque esas razones es muy importante ser capaz de revisar la lista de canales y ponerla a la manera se quiera. Durante años Topfield ha estado mostrando al mundo cómo se hace esto y es no es nada diferente con el TF6000PVR ES. Los canales pueden anularse fácilmente dentro de la lista de canales, renombrarse, moverse o dejarse protegidos con un código PIN para que los niños no pueden visualizarlos y no pueden aterrizar en canales no adecuados para ellos. La lista puede ordenarse automáticamente de varias maneras diferentes y los canales más populares pueden moverse cualquier número de listas de Favoritos diferentes para que puedan encontrarse fácilmente con la pulsación de un botón en el telemando.

Una vez se han tenido en cuenta todos los ajustes y se completa una búsqueda, el usuario puede terminar el menú principal y el receptor cambiará entonces al primer canal que se pueda recibir de la lista. Con la aparición del primer canal, aparece también momentáneamente una barra de Información que proporciona la información sobre el canal en particular, con sus parámetros técnicos y características (audio DD, subtítulos, teletexto, criptografía, etc.) además de la información sobre el programa que corre actualmente, asumiendo por supuesto, en primer lugar que estos datos están disponibles del proveedor. Esta misma barra de Información también aparece al cambiar entre los canales.

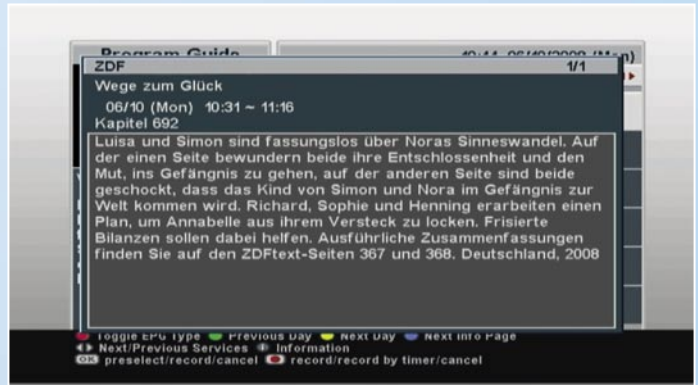
Una pulsación del botón de información muestra la información extendida para el programa actual. El botón de Guía muestra una vista previa de los próximos programas que incluyen por adelantado la información de la programación detallada para a una semana. De nuevo, todos se asume si el proveedor hace disponibles estos datos. Hay también dos modos de visualización que puede escoger el usuario. Especialmente práctica es la habilidad de programar directamente el temporizador de las entradas para grabar desde el EPG. Todo lo que se necesita es la pulsación de un botón para marcar un programa para grabar.

Puede accederse simplemente a lista detallada de canales del Topfield pulsando el botón de OK. Hay numerosos modos de ordenación y de búsqueda que le permiten hallar fácilmente el canal que se quiera. Si fuera necesario, el usuario puede escoger en qué sintonizador de debe recibir el canal seleccionado o dejar la opción al receptor. Esta última opción podría ser mejor si hay una grabación actualmente activa. El tiempo del cambio de valores entre los canales es bastante bueno y aun cuando los dos canales no estén en el mismo transponder, el tiempo de cambio de valores todavía es razonable en aproximadamente un segundo.

Los sintonizadores usados por Topfield tienen una excelente sensibilidad de entrada y no tienen ningún problema en recibir señales débiles como aquéllas en el ASTRA2D 28.2° este o NILESAT 7° oeste. Nosotros también estábamos contentos con la capacidad de SCPC



La lista del canales con capacidades de ajuste múltiples |



La Información de EPG extendida |



La barra de información |

del receptor; recibió correctamente señales a 1.0 Ms/sec y desplegó una imagen libre de interferencias. Nosotros no hemos visto demasiados receptores en nuestro laboratorio de pruebas que podría dominar el difícil canal RSP en el EUTELSAT SEASAT 36° este con una velocidad de símbolo de tan sólo 1.0

Ms/sec.

Hay todavía varios otras características adicionales que completan absolutamente la imagen global del TF6000PVR ES. Incluidas en esta lista, por supuesto, serían las numerosas entradas programables del temporizador que están disponibles



(semanalmente, por períodos, por día de la semana o capacidades de grabación de fin de semana), esta increíble facilidad de uso de este receptor, el decodificador del teletexto que funciona muy bien, así como están disponibles numerosos prácticos extras.

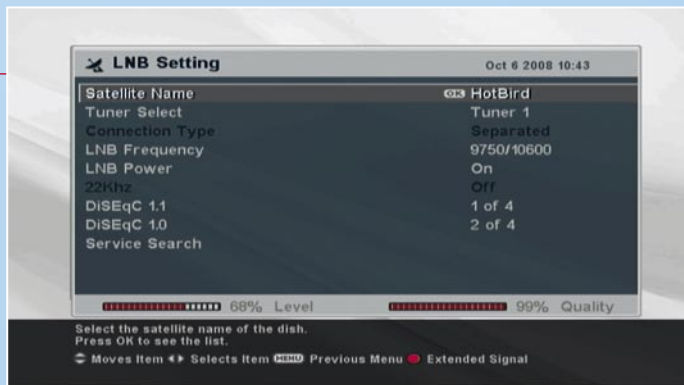
La función de PVR está indudablemente en la cima de la lista. El receptor puede grabar en la unidad de disco duro integrada dos canales al mismo tiempo y puede reproducirlos después sin ninguna degradación en la calidad. Gracias a la función de cambio de tiempo, también es posible hacer una pausa de un programa actualmente corriente y seguir después de atender la inoportuna llamada de teléfono. El programa puede reanudarse dónde se quedó después de que ha pasado la interrupción. La función del marcador también es una característica muy práctica. Puede colocarse una marca específica durante una grabación con la pulsación de un botón para que se marque este punto en la grabación y pueda encontrarse fácilmente en un momento posterior.

Las interfaces USB 2.0 y Ethernet en el panel trasero proporcionan una conexión a un PC con Windows. Pueden transferirse las grabaciones a un PC a través de estas dos interfaces y de allí, por ejemplo, puede grabarse un DVD. Naturalmente, pueden transferirse los datos en la otra dirección, que hace también fácil el convertir el TF6000PVR ES en una máquina de reproductora de MP3 copiando los archivos de MP3 al receptor. Dispone de un servidor Web y un servidor FTP

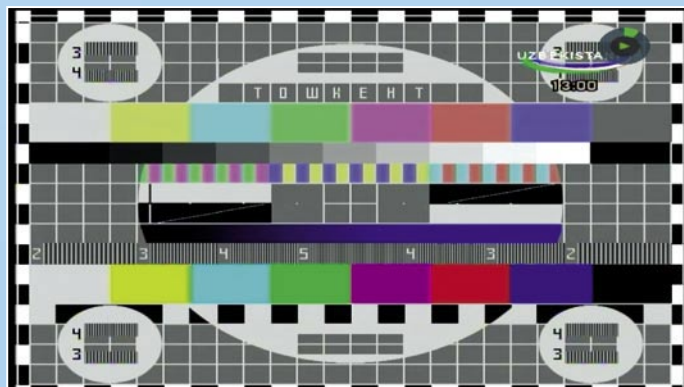
vía la interfaz de la red con los que se pueden controlar las grabaciones en la unidad de disco duro. Incluso pueden colocarse directamente las grabaciones del temporizador desde un PC. Desgraciadamente, la velocidad de transferencia vía la interfaz de la red no es de más de 1MB/sec. Esto podría resultar muy despacio para transferir grabaciones largas. Dado que la configuración de la conexión de red puede conectarse a un módem de DSL o a un enrutador el TF6000PVR ES soporta el protocolo DHCP.

La función de imagen en imagen del receptor también es bastante práctica. Por ejemplo, le permite cambiar a un segundo canal o a un programa previamente grabado mientras se esta visualizando el canal principal en un descanso comercial. El canal principal sería entonces visible en una pequeña ventana. Al final del descanso comercial, todo lo que se necesita hacer es realizar una sola pulsación de un botón para cambiar el receptor de nuevo al canal principal.

Una de las razones de que los receptores de Topfield han tenido el tanto éxito es la interfaz TAP, que libremente disponible permite a los usuarios transferir un software de expansión al receptor. El TF6000PVR ES no es nada diferente. Gracias a su similitud del hardware al TF6000PVRE, casi todas las aplicaciones TAP disponibles deben trabajar también en el nuevo TF6000PVR ES. Nosotros probamos el popular TAP EPG, 3PG, y encontramos que funcionó perfectamente en el receptor y haciendo que el excelente EPG del Topfield dis-



Los ajustes del LNB |



La recepción de una señal más débil como en el AM1 EXPRESS 40° este |

ponga de varias características agregadas como la colección automática de datos de EPG en un momento específico para que estos datos siempre estén disponibles y perfectamente ordenados para el usuario.

Topfield constantemente está trabajando en mejorar sus receptores y por consiguiente ofrece varias maneras de transferir una actualización del software. Puede realizarse vía satélite, vía Internet a través del interfaz de red o puede descargarse el archivo necesario desde el website de Topfield hasta un PC y entonces puede transferirse vía USB al receptor.

Por último, nosotros tenemos unos comentarios con respecto al escalador integrado. No-

otros queremos ponerle claro que no puede recibir una señal débil, una con un ratio bajo de datos, y convertirla en una excelente imagen HD. Le estaríamos pidiendo demasiado. Pero puede mejorar una imagen de tal manera que lo que se ve en una pantalla LCD o TV de plasma sería similar en calidad a lo que se seguiría en una TV de imagen normal de 80cm. Otros canales que ya transmiten en SD con un ratio de datos superiores pueden ser procesados por el escalador de Topfield y puede proporcionarse un cuadro visiblemente mejorado por lo que el usuario final diría que se parece a una calidad de HD.



La Opinión del Experto

+

El TF6000PVR ES es un receptor digital fácil de usar y amistoso para toda la familia. Gracias al escalador integrado, está preparado idealmente para el uso en Televisores LCD o de plasma y proporciona una calidad de imagen visiblemente mejorada. Las funciones PVR son bastante prácticas y una vez se usa por primera vez, nunca se quedará estar sin él.



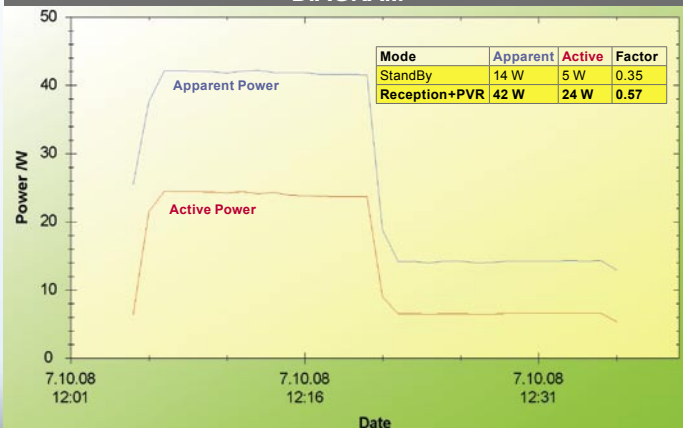
Thomas Haring
TELE-satellite
Test Center
Austria

La memoria de canales disponible de sólo 5000 es algo pequeña. Había sido bueno el disponer de un interruptor principal de energía en la pared trasera de la carrocería también habría sido bueno.

TECHNIC DATA

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

ENERGY DIAGRAM



Los Primeros 15 Minutos: un funcionamiento activo con cambio de valores de canal, grabación, reproducción, etc. Los Próximos 15 Minutos: Reposo



La expansión 3PG TAP del EPG



Los ajustes de Audio/Video



EL protocolo DHCP para ajustar fácilmente la red



Editor de la lista de canales



EPG Normal



ANGA Cable

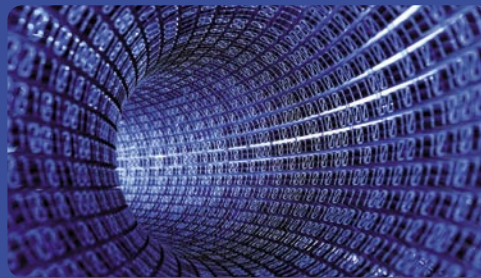
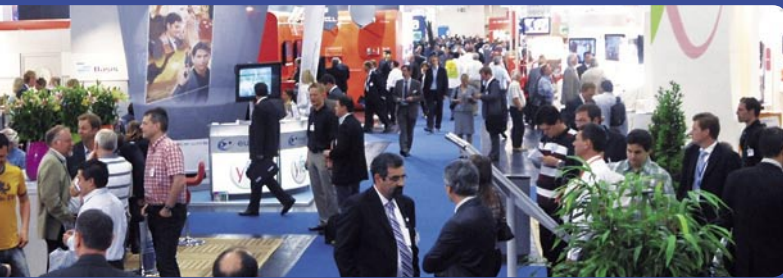
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Sistema de Antena de 4 segmentos de Venus

El fabricante indonesio PT Subur Semesta (principalmente conocido por su marca de fábrica Venus) ha desarrollado un sistema de antena de malla innovador que es absolutamente conveniente para la recepción de la banda C y pueden montarse bastante fácilmente gracias a su diestro diseño.

Lo que hace a esta antena diferente es la idea para dividir las doce secciones del plato en sólo cuatro segmentos. Así que, lo que se consigue es la antena desmontada en cuatro partes, cada una de las cuales consiste de tres tableros pre-fabricados. Naturalmente, sin lugar a dudas esto acelera el montaje.

■ El nuevo plato de malla AL7210 (de siete pies de diámetro) de PT Subur Semesta es fabricado según un sistema de producción innovador y consiste en sólo cuatro segmentos



■ Los cuatro segmentos de PT Subur Semesta montan la antena



VENUS
DIGITAL PARABOLA
AL7210

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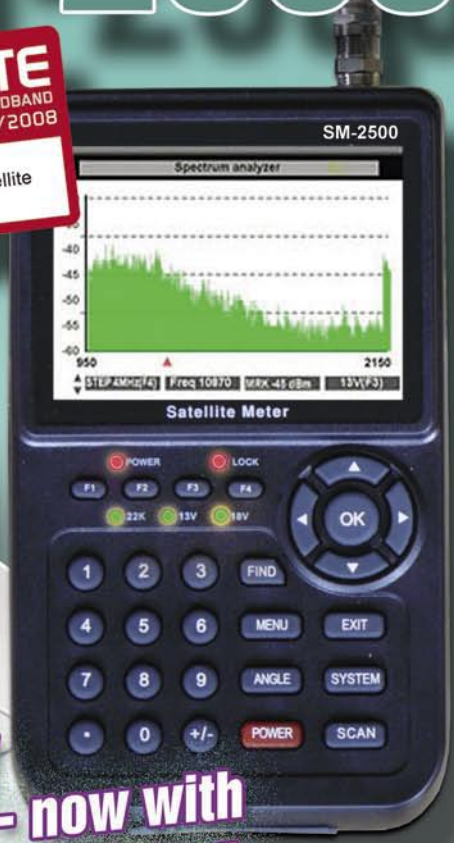
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■ El LNB 2-en-1 montado se conecta a un interruptor dual



■ El nivel de agua patentado de PT Subur Semesta funciona de maravilla al alinear la antena.

El producto viene con una guía de montaje que nos permitió tener el sistema de la antena en marcha en no más de 30 minutos. ¡Y que incluyó el tiempo de tomar todas las fotografías para este informe!

Los componentes individuales su muy alta calidad: están totalmente galvanizadas para que la nueva antena de Venus no sólo sea rápida de montar, sino que asegura también el ofrecer años de funciona-

miento fiable. Nosotros probamos una antena de 2.1 metros (7 pies) que se venderá principalmente en Indonesia. Debido a la proximidad del país al ecuador se requieren ángulos de elevación muy altos y esto es el por qué la antena está montada en el extremo del mástil. Con un ángulo de elevación de casi 90° requeridos en la región, cualquier otro diseño de montaje no funcionará.

La antena de la malla de PT Subur Semesta está casi totalmente automáticamente manufacturada, tan solo requiere el trabajo manual de un 15 por ciento del proceso total. Esto asegura que la calidad queda consistente y los tableros individuales tienen una forma parabólica exacta. Cuando se comparó con una antena sólida este plato resulta ser de un funcionamiento igual. A propósito, la nueva antena de malla viene con casi los mismos anclajes de soporte y las mismas barras de sujeción del alimento como los platos sólidos de PT Subur Semesta.

Los siete pies de tamaño fueron escogidos por PT Subur Semesta por una razón: En algunas regiones de Indonesia una antena de seis pies apenas no funcio-

nará, mientras que nueve pies serían demasiado para la mayoría del país. Como resultado los siete pies es el tamaño perfecto para Indonesia. Nos ha aconsejado PT Subur Semesta, sin embargo, que esto es sólo el principio. La compañía quiere conseguir una posición establecida primero en su mercado interno, antes de empezar a ofrecer otros tamaños de este línea de antena también para mercados internacionales.

Como con todos los paquetes de PT Subur Semesta esta antena viene también con el nivel de agua patentado por Venus. Gracias a sus imanes integrados, simplemente puede colocarse en una posición horizontal o vertical de las abrazaderas de montaje y la escala angular actual mostrará su posición. Esto hace que la puesta a punto de la posición de la antena sea muy fácil.

Nosotros usamos un LNB 2-en-1 montado para nuestra prueba de recepción. Este montaje, o incluso un montaje de un LNB de 4-en-1 para la banda C también está disponible de PT Subur Semesta. Estos montajes del LNB son ideales para las condiciones del mercado indonesio ya que permiten recibir las señales de varias posiciones con una sola antena. Las opciones disponibles son: PALAPA C2 (113.0E) y TELKOM 1 (108.0E), o ASIAsAT 3S (105.5E) y ASIAsAT 2 (100.5E), o todos ellos al mismo tiempo.

En sólo unos minutos nosotros pudimos alinear y recibir la TV del satélite con la nueva antena. El nuevo sistema de antena de malla de PT Subur Semesta es una solución innovadora para la producción de tableros de antena con una muy alta calidad. Todos esto está complementado por un montaje rápido y un fácil transporte.



■ Todos está acabado - ahora necesita ser medida la recepción.



■ Fantástico - el medidor muestra una recepción perfecta.

La Opinión del Experto

+

El nuevo sistema de antena Venus de PT Subur Semesta brilla gracias a su primera calidad. El montaje es fácil gracias a su diestro diseño. El plato viene completo con todos los componentes que se requieren para que se pueda mirar correctamente la TV de satélite después de preparar el plato.



Vincent Wijthun
TELE-satellite
Test Center
Indonesia

-
La antena no es que compatible con la banda Ku

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SPAUN Switch for USA

Ron Roessel

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

Recently, SPAUN ventured into a new arena by beginning to offer amplifier and multiswitch products for use exclusively with the DirecTV satellite PayTV system in the USA. DirecTV itself came into existence back in 1990 and launched their satellite TV

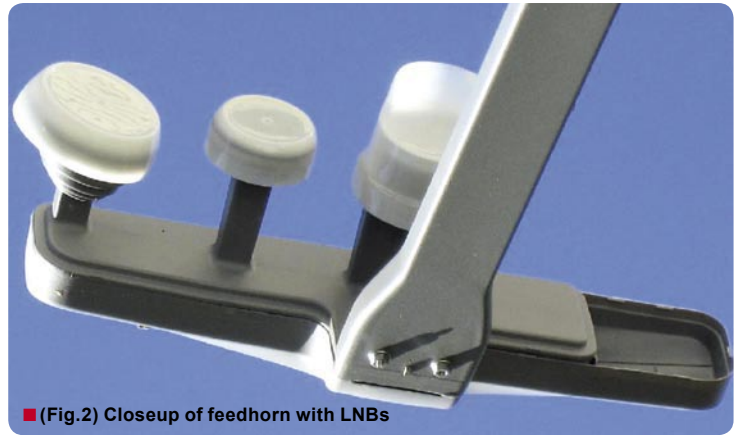
ers! In 2007 DirecTV began offering 70 HD channels and today that number has risen to over 130 HD channels.

When you talk to most people about DirecTV, they think of DirecTV as merely a provider of TV services to individual end users such as

service in June of 1994. The idea of watching TV via satellite instead of through a cable TV service provider became so popular that in just a little over a year, they reached one million subscribers.

Just ten years later in 2005 they had 15 million subscrib-

larger apartment buildings. Here the commercial end users want to provide independent satellite TV signals to each hotel room or apartment with all of this being accomplished using a single



■ (Fig.2) Closeup of feedhorn with LNBS

those in private homes. But the truth is DirecTV also provides service to commercial end users such as hotels and

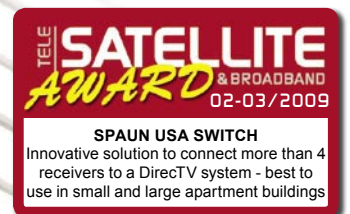
satellite antenna. Obviously, a standard DirecTV satellite system can't handle this all by itself. That's where SPAUN comes in.

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

The SlimLine LNB (Fig.2) comes with four independent outputs that when used normally allow the end user to connect up to four satellite receivers. But when used



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



with the SPAUN components, 16 and more receivers can be connected. If you take a close look at the SlimLine LNB, you might say to yourself: "I only see three LNB's". And, yes, that's exactly what it looks like from the outside. On the inside however, much more is going on.

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

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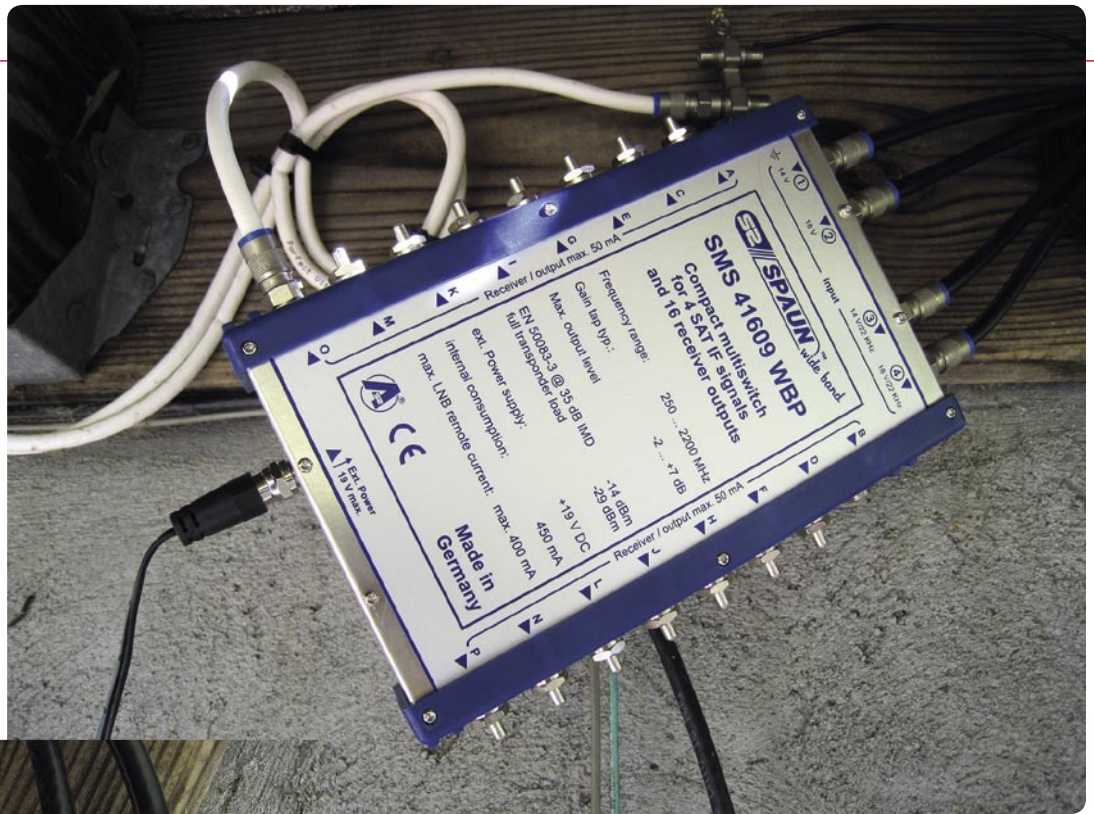
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two add up to five. Then you might be asking yourself how it can be possible to switch between five different satellites and at the same time give all the connected receivers access to these satellites independent of each other.

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

The SlimLine LNB does this and more. A portion of the incoming satellite signals are



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



■ (Fig.3) SPAUN SMS 41609 WBP switch

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

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

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

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

This switch already comes with the 16 outputs needed for 16 different receivers. Just plug the included power supply into a wall outlet, connect the other end into the proper jack on the switch and it's ready to go (Fig.4). All of the receivers connected to this switch can indepen-

dently access all of the satellite signals from the DirecTV antenna as if each receiver were connected to its own antenna.

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

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

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

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

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

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

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

and signal taps to the SPAUN set up as well.

For the first part of our test we wanted to set a baseline measurement from which a comparison could be made when the SPAUN components were added. So, before any SPAUN components were put in place, we measured and

test we used the following SPAUN components:

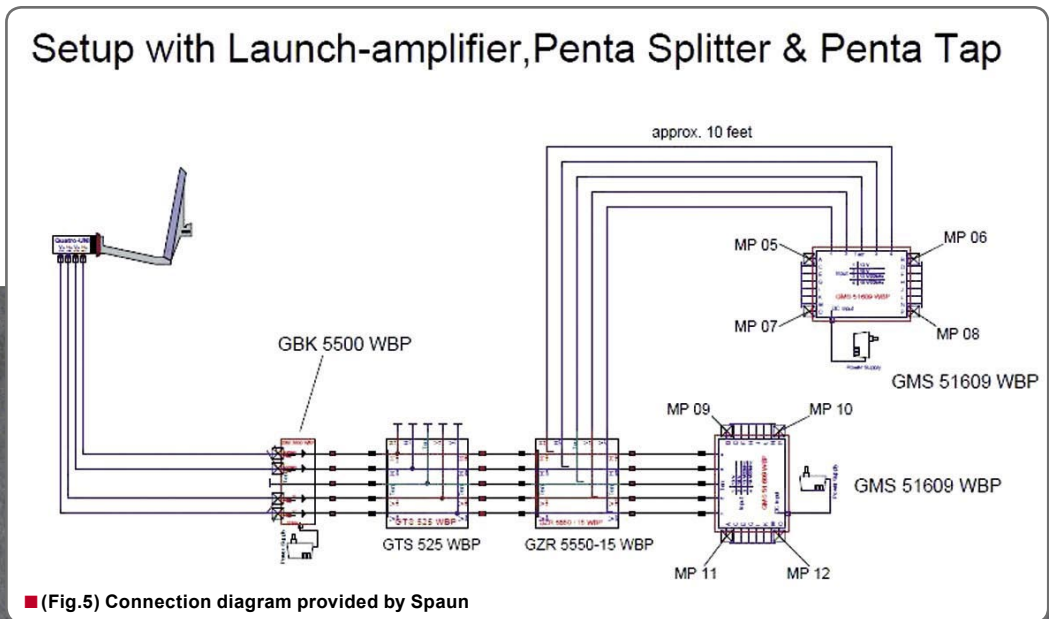
- 1xGBK 5500 WBP Wide-band Launch Amplifier
- 1xGTS 525 WB Penta Splitter
- 1xGZR 5550/15 WB Penta Tap with Directional Coupler
- 2xGMS 51609 WBP Compact 16-Output Multiswitch

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

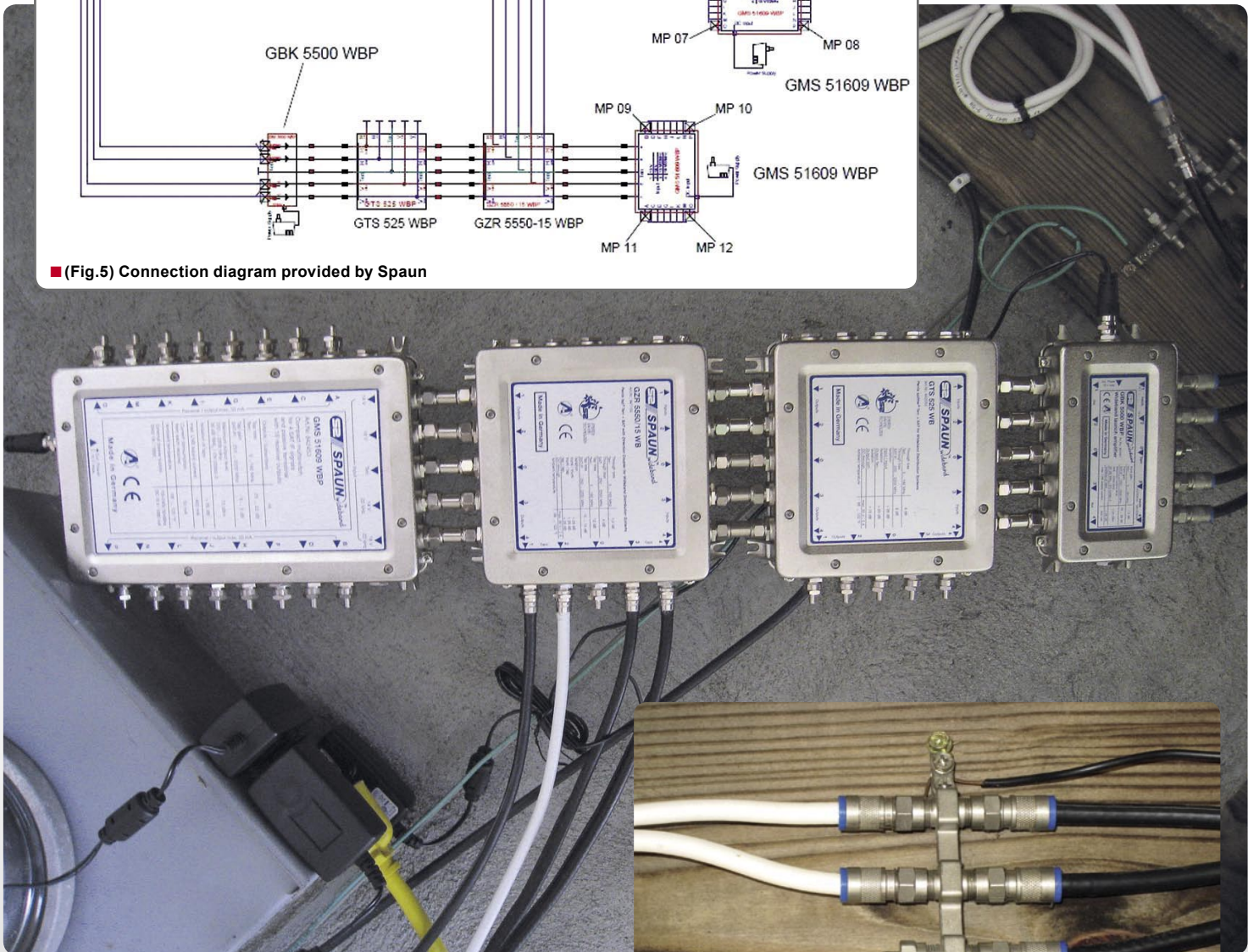
before the cables went into the house. This was a convenient point to connect the SPAUN components.

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

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



■ (Fig.5) Connection diagram provided by Spaun



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

recorded all the active transponders on the five satellites using the signal strength display that is included in the DirecTV receiver setup menu.

For the second part of our

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

(Fig.8) DirecTV Satellite at 101 west

Table with 10 columns: Transponder#, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-32 showing signal strength data for various transponders.

(Fig.9) DirecTV Satellite at 110 west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 9, 11, 13 showing signal strength data.

(Fig.10) DirecTV Satellite at 119 west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 22-32 showing signal strength data.

(Fig.11) DirecTV Satellite at 99a west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-14 showing signal strength data.

(Fig.12) DirecTV Satellite at 99b west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-6, 15-24 showing signal strength data.

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

As with the first part of the test, all the active transponders for the five satellites were measured and recorded for each of the MP's (MP05 to MP12) using the same DirecTV receiver menu display.

Looking closely at each of the tables you can see that the measured signal strengths at MP05 to MP08 compared very nicely to the normal setup. In fact there was very little difference between any of the measurements and in some cases there was no difference at all.

There was, however, some

differences between the measured signal strengths at MP09 to MP12 and the normal setup. In this case the measured signal strengths were somewhat lower at these four MP's than those of the normal setup.

Conclusion

So, is the number of receiver outputs using these SPAUN components limited to 32? Absolutely not. If you need more than 32 outputs for your specific DirecTV setup, simply add additional SPAUN components!

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

(Fig.13) DirecTV Satellite at 103a west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-24 showing signal strength data.

(Fig.14) DirecTV Satellite at 103b west

Table with 10 columns: Transponder #, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-14 showing signal strength data.

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1 HD CHANNEL AT THE SAME TIME

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- INTERNAL SATA 2'5 OR EXTERNAL E-SATA HDD SUPPORTED
- TIME SHIFT FUNCTION
- EPG, PIP, USB 2.0 HOST, MP3 DECODER
- DIVIX SUPPORTED



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02-03/2009

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

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

TELE SATELLITE AWARD & BROADBAND
02-03/2009

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

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

TELE SATELLITE AWARD & BROADBAND
12-01/2009

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

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

TELE SATELLITE AWARD & BROADBAND
12-01/2009

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

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

TELE SATELLITE AWARD & BROADBAND
12-01/2009

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

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

TELE SATELLITE AWARD & BROADBAND
12-01/2009

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

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

TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND
08-09/2008

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

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

TELE SATELLITE AWARD & BROADBAND
08-09/2008

IMPERIAL DB 1 CI HDMI
Practical and user-friendly interface – the perfect match for satellite radio listeners and DXers

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

TELE SATELLITE AWARD & BROADBAND
06-07/2008

ARION AF9400PVR HDMI
A solid and easy to use receiver that with its Scaler can present satellite channels in excellent quality.

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

OPENSAT X9000HDCI
Fasten your seatbelt: super fast channel zapping combined with superb audio and video quality in SD and HD

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

TOPFIELD TF7720HSIR
Ideal HDTV Receiver for FTA and Irdeto encrypted channels

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

TELE SATELLITE AWARD & BROADBAND
02-03/2008

TOPFIELD TF7700 HDPVR
Fully capable twin receiver with proven HDTV technology and outstanding picture quality.

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

TELE SATELLITE AWARD & BROADBAND
02-03/2008

AB IPBOX 350PRIME PVR
A Linux-based Receiver as Powerful as Never Before

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

TELE SATELLITE AWARD & BROADBAND
02-03/2008

NANOXX 9600 IP
Perfectly working CA receiver with smart use of network interface

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

Arion a su manera

Más de hace un año se publicó un informe de TELE-satélite resaltaba el éxito de Arion fabricante surcoreano de receptores de calidad superior, con su cuartel general en Anyang, uno de los suburbios al sur de Seúl. Ahora es la hora de que nosotros lo visitáramos para averiguar cómo Arion ha navegado el año pasado a través de los ásperos mares y qué planes de expansión están en el mapa del camino para el 2009.

Thomas Roh (a la izquierda), director de ventas y comercio, y Sam Chang (a la derecha), el gerente de comercio, delante de la entrada de las oficinas de R&D de Arion.

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■ **¿No es obvio? Una compañía con los tantos platos en el tejado debe tener algo que hacer con los receptores de satélite. Jeong Woo Lee es uno de los ingenieros de Arion y se ve aquí encuadrando un LNB. En el fondo se puede ver la línea del horizonte de Anyang, uno de los suburbios al sur de Seoul.**

buidos en Europa ". Sam Chang agrega, " Nuestra propia oficina de ventas en Argentina ha sido activamente operacional desde principios del 2007 " y continúa revelando " en el 2009 nosotros estamos planeando seguir creciendo en el Oeste de Europa, en particular ".

Thomas Roh es el director de ventas & comercio y nos actualiza con un poco de detalles con respecto a los mayores mercados de Arion: "Desde el 2006, Arion se ha estado enfocando más en operador de TV que comercializa en América Latina, India y otros mercados emergentes y ha realizado

contratos con los principales operadores de TV de cable y satélite. Pero pronto, nosotros estamos regresando a Europa, uno de nuestros principales mercados de STB, con las nuevas plataformas de HD reforzadas como el ST7101 HD, un PVR HD listo y basado en Broadcom HD y PVR dual". Arion está allí y hace un punto especial en preparar la cooperación con varios proveedores de satélite y

cable. ¿Qué hay sobre el rango de productos de Arion? " Claramente, el mercado de HD está actualmente en Europa", sugiere Sam Chang y continúa listando los productos que se presentarán al mercado europeo en el 2009: " En el primer trimestre del 2009, nosotros lo hemos fijado para lanzar un receptor de HDTV, listo PVR mediante un disco duro externo que puede conectarse a la caja. A esto le seguirá un receptor con disco duro integrado en el segundo trimestre y para el final del 2009 se puede esperar incluso algún receptor IPTV". Joey Lee agrega "pronto en cuanto tengamos

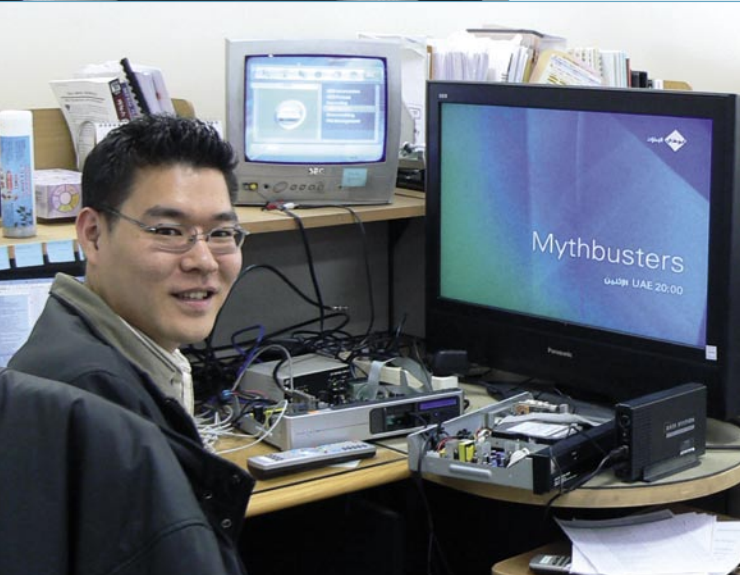
■ **El equipo de ventas de Arion al trabajo.**



■ Joey Lee, la gerente de comercio de Arion que conduce el equipo de publicidad.



■ H.M. Park es el director de la fábrica de Arion y lidera el equipo de 50 ingenieros del diseño de hardware y software en el equipo de R&D.



■ ¡No molesten! El diseño del circuito de un nuevo receptor se discute por un equipo de ingenieros.

■ Uno de los ingenieros de software ajustando el software para el nuevo receptor HD de PVR que se lanzará pronto.

el primer piloto de este receptor que esté disponible, nosotros enviaremos una muestra a TELE-satélite para hacer un informe de la prueba". Nosotros en TELE-satélite y por supuesto nuestros lectores esperan estos nuevos receptores MPEG-4 y también los receptores de HDTV, porque los productos de Arion siempre han llevado una marca por lo que se refiere a su calidad.

Si prefiere encontrarse a representantes de Arion en persona, se puede marcar dos exhibiciones en su tiempo para el 2009: "Nosotros tendremos representación en el ANGA y en el IBC", nos confirma Sam Chang.

¡Arion es tan activo como la propia vida y nosotros no podemos esperar en ver los nuevos receptores de calidad de Arion!

■ Un receptor de calidad debe sufrir las pruebas de calidad más severas: Eun-Ju Choi es una ingeniera de pruebas en el equipo de calidad y se ve aquí verificando como se comporta en la cámara de calor un receptor de la nueva línea de Arion.



¡Un Millón en 4 Años o Quizás Incluso en 3! SonicView, USA

SonicView todavía puede encontrarse en este parque industrial. Dos naves han sido arrendadas por SonicView. "Pero en sólo unos meses nosotros pasaremos a nuestro propio edificio", dice Steve Falvey, el CFO de SonicView, "el almacén aquí es demasiado pequeño para nuestro creciente fuerte ritmo de ventas". ■



Si en su primer año de negocio de venta de receptores de satélite ha vendido más receptores de los que alguna vez soñó, entonces no debe haber en absoluto ningún problema en alcanzar la marca de un millón en cuatro años, quién sabe, quizá incluso en tres años! SonicView, basada en California, se fundó sólo al final del 2006. Bobby Sanz se hizo con la propiedad en verano 2007 y las ventas han aumentado imparablemente desde entonces. Ésa es una historia de éxito real, nos lo explica Tony Lively, el gerente de ventas de SonicView, con más detalle.

En verano 2007 Bobby Sanz adquirió el comienzo de la compañía SonicView. Aquí es cuando empezó la acción. Tony explica, "SonicView fue el comienzo de una compañía de receptores de satélite que luchó contra algunos pesos bastante pesados en el mercado norteamericano. La compañía empezó con sólo tres empleadas. Era al principio un funcionamiento pequeño. Con una línea de productos superiores y el conocimiento de Bobby del mercado norteamericano, él adquirió los derechos de la exclusiva y de la distribución mundial para un fabricante coreano de receptores.

Bobby reunió un equipo de profesionales de primera clase para hacer crecer su compañía. Steve Falvey, que trabajó para un gran banco americano vino como vicepresidente a traer su estilo. Después de retirarse, él empezó como el CFO de SonicView y desde entonces lo ha sido hasta ahora. La decisión para saltar al equipo de SonicView fue realmente bastante fácil: Bobby Sanz es su hijo.

La experiencia de Steve como un gerente del banco abrió las puertas financieras a SonicView y les permitió construir hacia arriba su negocio de receptor arriba con gran estilo. En 2008, las ventas de SonicView fueron dobladas desde que Bobby adquirió el negocio. Las expectativas para el 2009 ya han aumentado por encima de lo que era originalmente su objetivo.

¿De dónde viene este optimismo? "El comercio de FTA en América del Norte todavía está en su infancia", explica a Tony, "El numeroso número de inmigrantes que hay aquí están descubriendo ahora que ellos pueden mirar la TV de su país en casa vía satélite sin ningún cargo". Los receptores de satélite de SonicView se concibieron exactamente para este mercado.

"Hay un segundo mercado de espectadores que hasta ahora ha estado pagando por su TV y está descubriendo despacio que hay un gran número grande de canales libres que pueden recibirse". Con la fase de contracción económica actual, muchos se están preguntando por qué se tienen que ahorcar más su dinero pagando a un proveedor de la TV de pago.

SonicView está abriendo un tercer mercado para ellos con su expansión en América del sur. "Éste es un gran mercado y sin explotar, Tony está convencido, "Nosotros lo llamamos 'el espacio blanco'".

El profesionalismo de SonicView puede verse muy pronto: primero porque todos los problemas de envío y de transporte se arreglan antes de que cualquier distribuidor local los busque. "Nosotros reducimos de esta manera el riesgo de eso ya que nosotros principalmente sólo enviamos hasta la frontera; de todo lo demás se cuidan nuestros compañeros locales". El crimen y la corrupción son unas cosas de las que una compañía como SonicView debe mantener una distancia. Tony continúa, "Nosotros siempre exigimos al pago por anticipado para mantener nuestro riesgo a un nivel mínimo".

Una mirada a su paleta de productos nos muestra que aquí hay una mano organizada en el trabajo aquí. Los receptores se configuran exactamente para el mercado. Disponemos del modelo HD8000 de clase alta para la recepción de HDTV vía el satélite así como terrestre, también disponemos del SV360 Elite que TELE-satélite introdujo recientemente y viene con un sintonizador dual de satélite, y el SV360 en una versión de un solo sintonizador.

Cuando SonicView llego a la muestra CES en Las Vegas en enero del 2009, ellos tendrán tres receptores más para mostrar al mundo: una versión de HDTV del SV360 con uno o dos sintonizadores y una versión ligera para el mercado suramericano con un solo afinador y un modulador-demodulador de UHF en lugar de una salida en HDMI.

Tony nos proporcionó una visión de su negocio: " Nosotros vendemos aproximadamente el mismo número de cada uno de los tres modelos, dicho de otra forma, 30% cada uno".

SonicView tiene actualmente sólo 11 empleados y vende solo a comerciantes al por mayor. "Nuestros clientes están agrupados en ocho distribuidores regionales en EE.UU., Canadá y México", explica Tony y continúa, "Estos distribuidores entregan a su vez a aproximadamente 130 distribuidores al por menor".

Se espera que la paleta de productos de SonicView sea extendida. Tony explica, "En



■ El CFO, Steve Falvey, fue anteriormente un banquero. Steve sabe cómo financiar una compañía con éxito y cómo llevarla rápidamente a la cima.



■ El gerente de ventas de SonicView Tony Lively leyendo una edición de TELE-satélite con el informe de prueba de SonicView. "Yo he aprendido mucho de TELE-satélite", nos revela a Tony, "disfruto sobre todo de los informes de todos los diferentes países".



■ Patricia Moreira Renco, brasileña de nacimiento, es su Consultor Comercial Internacional y está trabajando a la formación la red de distribuidores suramericana.

TELE-satellite World

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Éste es el gerente de almacén, Chris Witcomb. Él explica, "Una caja contiene cinco receptores y 1000 de estas cajas encajadas en un contenedor llevan un total de 5000 receptores". Ése es el número mínimo que un distribuidor debe comprar, pero para muchos de ellos eso no es bastante. "En cuanto llega un pedido, es completamente fletado al día siguiente", nos comenta Chris.

La Ken Cherry es Especialista en el control de inventario y no sólo regula el envío a los distribuidores sino que también se ocupa de todas las formalidades relacionadas con la importación relacionadas a las entregas de Corea Sur. " El transporte desde el extranjero tarda aproximadamente más de una semana, además de un día adicional para superar las aduanas", explica Ken.



El Gerente de Apoyo Técnico, Adán Dunn, en su trabajo reparando un receptor defectuoso. Él explica, "Nosotros tenemos muy pocas devoluciones, en la última estadística del año fue del 0.002% sobre las ventas anuales". Los productos de alta calidad de SonicView son otra razón para su sensacional éxito.



2008 sólo el 10% de nuestras ventas eran accesorios pero nosotros esperamos aumentar grandemente este número en 2009, de hecho, los accesorios podrían constituir la mitad de nuestras ventas en el futuro". Esto incluiría principalmente multi conmutadores y cables HDMI, además también LNBS y memorias USB para PVRs.

Bobby Sanz tiene varios planes para el futuro y se prepara hacer esto apropiadamente pasando por: financiación profesional, pensamiento de los productos para satisfacer el mercado y la oportunidad óptimamente. ¡Quién sabe, quizás SonicView tendrá éxito en el millón de receptores adecuado en sólo tres años!

Dick es el Soporte Técnico de SonicView y Julie Sweeney de Michigan, y Rick Caylor (en la foto) de la vecina Ciudad de Kansas, Missouri. Él es el especialista de SonicView cuando aparecen problemas difíciles y ayuda a los clientes a resolver los problemas de recepción del satélite y sobre todo aquéllos que disponen de sistemas motorizados. Rick se refiere a sus platos y dice, "yo tengo seis antenas con 13 receptores. Un plato macizo de 3.0 metros, un plato de aluminio de 2.5 metros, cada uno de ellos con motores, más un plato de 90cm para DirecTV, un plato de 75cm para el Galaxy 25 y dos antenas motorizadas de 75cm". Rick es un ávido cazador de enlaces y está particularmente interesado en las carreras de automóviles por lo que él también opera un foro sobre el satélite en el que lista los enlaces de las carreras de coches: www.websitetoobox.com/mb/rickcaylor



Estas etiquetas son usadas por SonicView para mostrar la confianza a los usuarios finales y que ellos han puesto a disposición de sus distribuidores. Estos sólo consiguen estas etiquetas después de ser comprobados por SonicView; los distribuidores a su vez ponen estas etiquetas en sus páginas web.

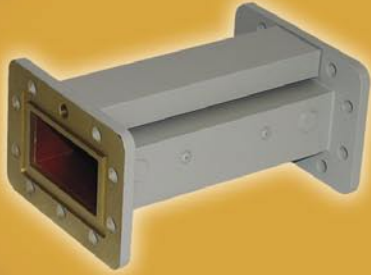




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HDTV por Jiuzhou

El edificio de Jiuzhou Electric en Nanshan en el parque industrial de alta tecnología en el área occidental de Shenzhen (China) decorado festivamente para su 50° aniversario de la compañía.

El número de compañías de alta tecnología que aparecen con una historia corporativa de 50 años es muy pequeño. Una de ellas es Jiuzhou en Sichuan en China. En el 2008 la compañía celebró su 50 aniversario, TELE-Satélite realizó un informe en la edición 03/2008. Las celebraciones oficiales tuvieron lugar el pasado 16 noviembre en los cuarteles generales de la corporación en Sichuan.

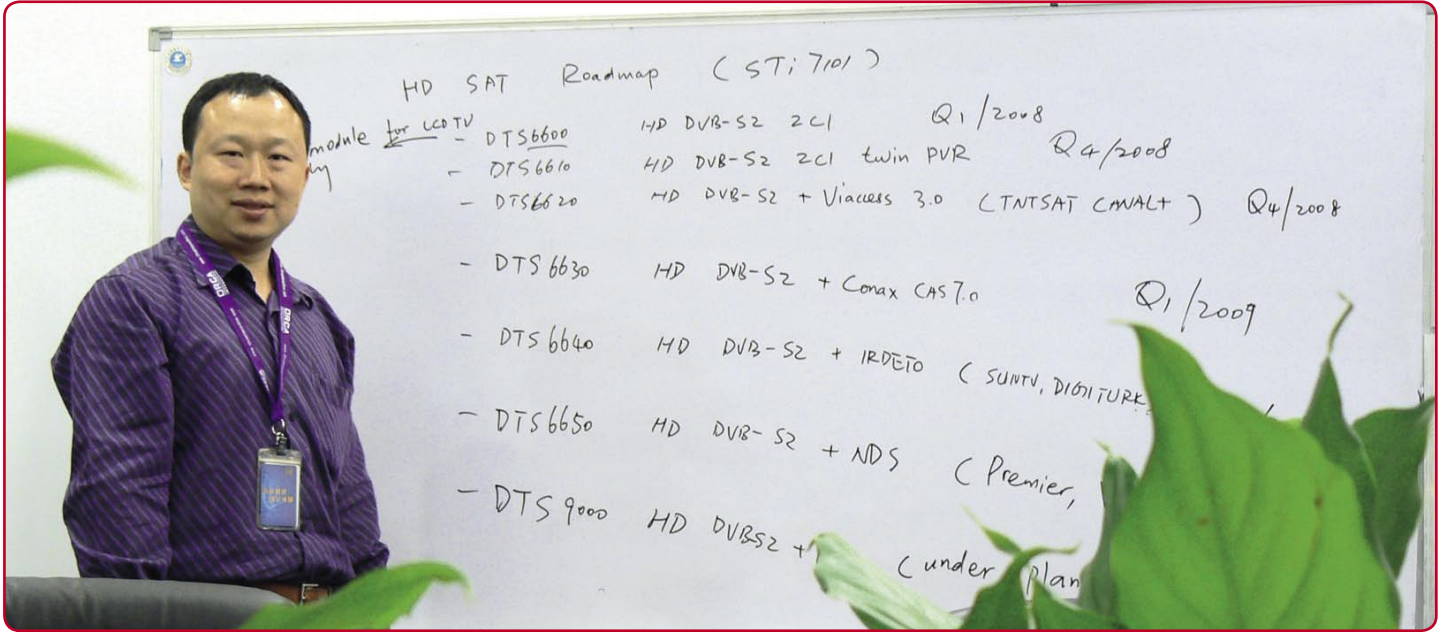
Ahora la pregunta es: ¿qué hay en reserva durante su año número 51?



El Último Desarrollo para el Año 51

La base de distribución e investigación de Jiuzhou está localizada en Shenzhen, al lado de Hong Kong al sur de China. Aquí es donde nosotros nos encontramos a Huang Wei, director de ventas de Shenzhen Jiuzhou Electric y su compañía subsidiaria Telemedia Digital que es la encargada de los receptores dentro del Grupo Jiuzhou. Aparte de los receptores del satélite Jiuzhou ofrece también receptores para la TV por cable, TV terrestre e IPTV.

"La TV digital terrestre DMB-TH se lanzó en Hong Kong, y China se propone introducirla durante el 2009", según Huang Wei, antes de que él cambie al campo del satélite: "En el 2008



■ El director de ventas Huang Wei muestra la hoja de ruta para el nuevo receptor de Jiuzhou planeado para el 2009, todos equipados con integrados ST.

el 95% por ciento de nuestros productos son para la definición normal, pero en el 2009 el segmento de la alta definición aumentará fuertemente para constituir de 20 a 25 por ciento".

Jiuzhou tiene un completo rango de nuevos modelos en reserva para encontrarse esta demanda. En la edición anterior de TELE-Satélite ya presentó el DTS 6600. Mientras tanto, el modelo DTS 6610 con un sintonizador gemelo también fue lanzado y se probará brevemente por el equipo de TELE-satélite.

"El DTS 6620 también es sobretodo enteramente nuevo y hecho para los proveedores de la TV de pago francesa TNTSAT de Canal Plus", Huang Wei continúa mientras traza en una tabla las fechas de los nuevos modelos y su lanzamiento



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al mercado. "En el curso del 2009 nosotros estaremos presentando modelos con Conax integrado, Irdeto para la India y Turquía, así como con NDS". "Incluso está actualmente en fabricación un modelo de IPTV, pero simplemente ahora mismo la demanda no es todavía tan importante", nos revela Huang Wei, "aunque France Telecom ha publicado una oferta".

En el principio, todos los receptores son PVR, ya que puede conectarse al puerto de USB un disco duro o un lápiz memoria. "Nosotros estamos trabajando cada vez más junto con los satisfechos proveedores mayoristas y por consiguiente producimos según sus especificaciones", Huang Wei detalla la estrategia comercial de Jiuzhou. Esto significa que desde un punto de vista técnico Jiuzhou puede montar un disco duro como una característica de fábrica y así ofrecer un PVR máximo.

"Aquí en Shenzhen nosotros empleamos actualmente a unos 250 diseñadores de software y se agregan de 20 a 30 nuevos trabajadores cada año", Huang Wei orgullosamente detalla y explica eso porque aquí Jiuzhou puede reunir los requisitos



■ Chen Jun es uno de los diseñadores del software en Jiuzhou. Aquí se le ve en la programación del software de un receptor de HDTV.

del cliente bastante fácilmente. "Los receptores combo, por ejemplo, no proponen un problema en absoluto, y puede integrarse el audio en Dolby ya que nosotros hemos adquirido recientemente una licencia para eso".

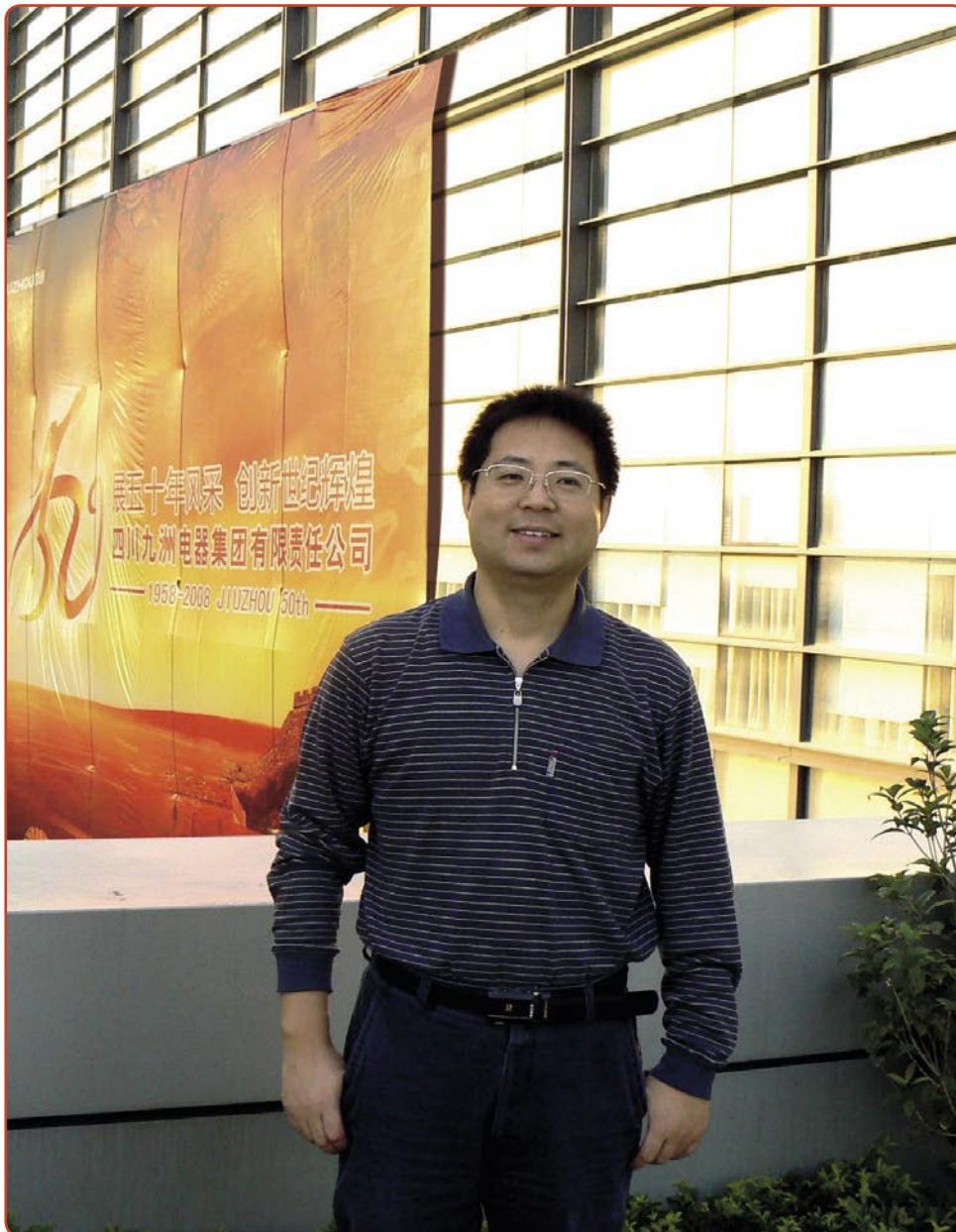
El ABS es uno de los más recientes desarrollos, por favor vea el informe en esta edición para más detalles. El ABS es la norma de radiodifusión llevada a cabo para las transmisiones de DTH en China y podría ser una tarjeta de visita para el mercado chino. "Nosotros todavía estamos esperando las últimas especificaciones, pero en el 2009 deberá aparecer la descarga de ABS", nos explica Huang Wei.

Cuando una consecuencia de eso el 20 por ciento de los proyectos de receptores de Jiuzhou serán modelos ABS. El 50 por ciento serán para la definición normal y el 20 por ciento para la alta definición. Huang Wei concluye que "nosotros también fabricamos el receptor DTS 6600 como un placa lista para conectar para las pantallas LCD". Esto significa que incluso los productos de Jiuzhou se integran en los productos de otras marcas.

¿Esto significa ahora que esto es todo con respecto a los receptores de satélite y Jiuzhou? ¡Nada de eso! El Grupo de Jiuzhou es una casa de más compañías: Jiuzhou Electronic que es un fabricante de receptores de satélite profesionales que son principalmente usados como receptores de cabecera por los proveedores de TV por cable. TELE-satélite presentó el DVS-2018BS en la edición 11/2007.

Mientras fue un receptor de definición normal, el director de exportación Yonchin Shou nos explica que el nuevo DVS-

■ El director comercial para ultramar del Grupo Jiuzhou Tang Erman en el verde jardín del edificio de Jiuzhou Electric. El gran cartel en segundo plano celebra el 50 aniversario de Jiuzhou.





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- LNB short circuit protection
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- Automatic fast and trickle charge modes
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- USB lead supplied
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- Registered design
- Free product support via phone and email

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2018CS es ahora un modelo compatible HDTV. "Ahora las compañías de cable también pueden incluir los canales HDTV en sus ofertas". Incluso con módulos de CI, si fuera menester.

El TELE-satélite está trabajando actualmente en un informe de prueba para este modelo en particular. "El modelo actual esta fabricado para MPEG-2, pero nuestros más de 200 ingenieros en Sichuan y Beijing están trabajando ya en un modelo para MPEG-4", nos cuenta Yonchin Shou sus futuros proyectos. "Ahora mismo, sin embargo, la demanda para receptores MPEG-4 se domina todavía más bien".

Aun después de 50 años Jiuzhou está fresco con ideas para los nuevos modelos. Naturalmente, nosotros también estamos interesados en las estrategias del mercadeo empleadas por Jiuzhou y nos volvemos a la Tang Erman para obtener las respuestas. Tang es el director para ultramar del Grupo de Jiuzhou en su Departamento Comercial y, cuando se le preguntó hacia donde él ve los mercados futuros para los productos de Jiuzhou, "creo que en Europa y América del Norte la demanda es claramente para receptores de HDTV, mientras que en Asia se quiere SDTV".

Tang Erman asigna los recursos comerciales de acuerdo con: "En el 2009 nosotros estaremos presentes en doce exhibiciones especializadas", nos dice Tang Erman y nos explica las diferencias sobre el 2008: "El año pasado nosotros teníamos unas posiciones pequeñas en 19 ferias, en 2009 el número de ferias disminuirá para nosotros, pero aumentará el

■ El rango de productos de la compañía Jiuzhou se despliega en el despacho de muestras. Sentados en el sofá: Kitty (a la izquierda), ayudante de Linda Lee (a la derecha), del departamento comercial para ultramar del Grupo Jiuzhou.



■ El director de ventas Yonchin Shou apunta el nuevo DVS-2018CS, un receptor profesional de satélite HDTV en el nuevo catálogo de CATV (www.jiuzhoutech.com).

tamaño o nuestra posición".

Claro que Jiuzhou también confía en Internet como un medio de publicidad. Tang Erman nos revela que "el 25 por ciento de nuestro presupuesto comercial se gasta en publicidad en línea". Principalmente nos centramos en sitios como B2B Alibaba o Globalsources. "El 15 por ciento de nuestros recursos de publicidad van a la publicidad impresa como la de TELE-satélite, y el 60 por ciento se gastan en ferias especializadas y exhibiciones".

Tang Erman también explica por qué se

distribuye el dinero así: "Nosotros recibimos mucha regeneración de la publicidad en línea, pero nosotros sólo generamos pequeños pedidos. La presencia en ferias es muy eficaz por lo que se refiere a generación de grandes pedidos, cuando nosotros entramos en contacto allí con distribuidores mayoristas. Por otro lado, participando en el coste en ferias es mucho dinero y las muestras han terminado después de sólo unos días", nos comenta Tang Erman. ¿Así entonces todavía se imprime publicidad?: "Aquí





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nosotros estamos durante mucho tiempo presentes delante de los ojos de nuestros clientes potenciales lo que nos da la oportunidad de formar nuestra imagen". Tang Erman está muy satisfecho con su conjunto de estrategia de comercio y man-

tiene que "nosotros queremos mantener esta proporción y no estamos planeando cualquier cambio". El departamento de Tang Erman consiste en 20 empleadas en Shenzhen que son las responsables de las comunicaciones externas.

iJiuzhou, tan activo como siempre, incluso en su 51º año!

■ Un prototipo de HDTV es probado por el ingeniero de software Zhu Xiaoyong con una señal real del satélite.



Worldwide Satellite in Northern Holland

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

Dennis van Leeuwen is one of the co-owners of Worldwide Satellite and immediately sets the record straight: "Today only 30% of our sales are related to mobile satellite system installations." Dennis along with his brother and partner Rob founded the company in 1995. "Back then we operated four

video rental stores", explains Dennis and then went on, "but business continued to get worse and worse so we switched our business over to satellite equipment."

It was an obvious move considering that Dennis is an amateur radio

enthusiast and was already interested in satellites back in 1989 when ASTRA started. "Only if you have fun with what you do can you be successful", suggests Dennis.

At first the two brothers installed satellite systems only for private end-users but after a few years that changed. Dennis explains: "We began

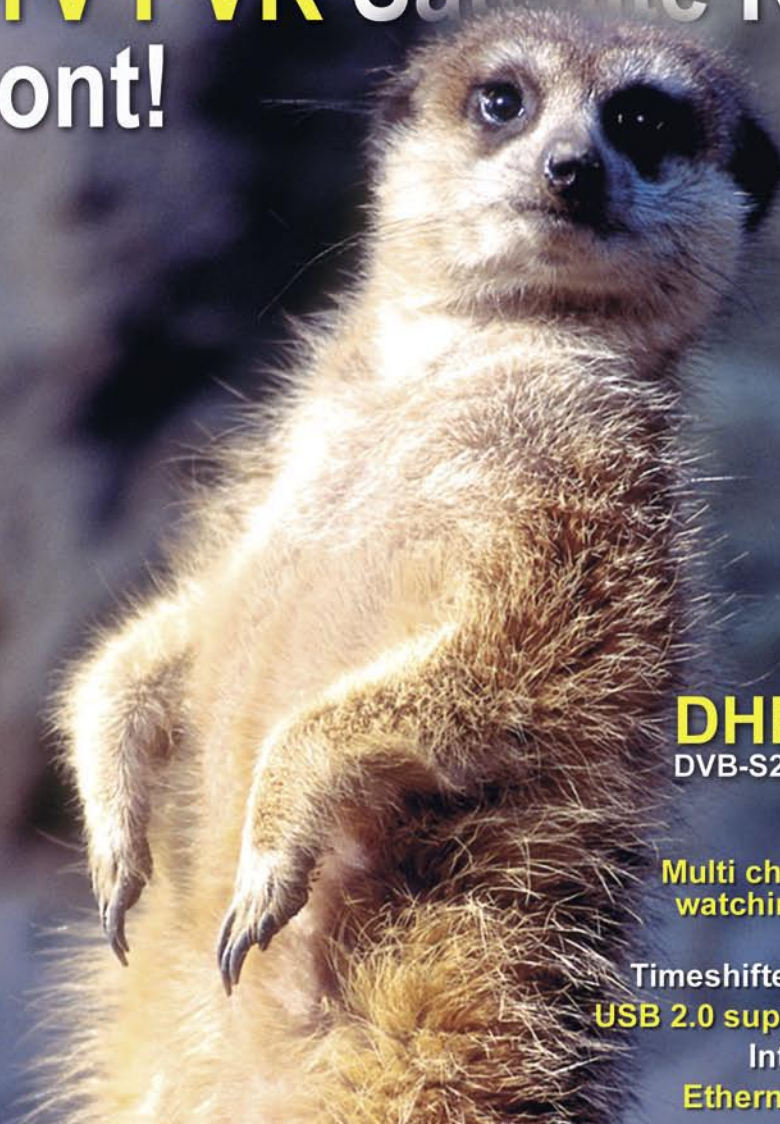
to install satellite systems for sporting events in many of the sports bars in Amsterdam and this makes up about 40% of our sales today."

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

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



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



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

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

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

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



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■ Carl Fahrenkrug es el Presidente de Compañía de Filtro de Microondas y CEO



■ Siempre al teléfono con clientes: Sandy Nelepovitz es la directora comercial senior y conduce el equipo de ventas.



■ Scott Parsell, el Director de Ventas, conduce la red de representantes de las ventas domésticas e internacionales de MFC que continuamente buscan nuevas oportunidades para la compañía.

"La compañía se fundó en 1967, aquí en el estado de Nueva York", explica Sandy Nelepovitz, la directora Comercial Senior de MFC y en alguna magnitud, el corazón y alma de la compañía. Ahora lleva en MFC 30 años, ella pronto nos ofrece alguna historia de la compañía, "Glyn Bostick, el fundador de MFC, empezó el negocio realmente en un garaje, producía los filtros para el uso de radio aficionados. En 1973, nosotros nos trasladamos a nuestra situación actual. En ese momento, nosotros alquilamos sólo una porción de la factoría, compartiéndolo con

otras compañías. En 1983, cuando el negocio continuó creciendo, nosotros pudimos comprar los 3700 metros cuadrados del edificio entero".

Scott Parsell, el Director de Ventas que ha estado con MFC durante casi 20 años nos explica más cosas, "A pesar de las fases de contracción económicas y los cambios tecnológicos que han ocurrido en la industria de las telecomunicaciones durante los años, el negocio de MFC se mantuvo sólido, principalmente debido al hecho de que nosotros ofrecemos una gran variedad de productos

única solución es eliminar estas señales con un filtro pasa banda en el propio alimento antes de la conversión.

Scott continúa, "Nosotros ofrecemos filtros pasa banda de banda normal (500 MHz), la banda extendida (600 MHz) y la banda especial-extendida (800 MHz). Nosotros también ofrecemos unos filtros hechos a medida para aplicaciones especiales. Así que, nosotros podemos construir el modelo de filtro correcto para el funcionamiento en la banda C en cualquier esquina del mundo".

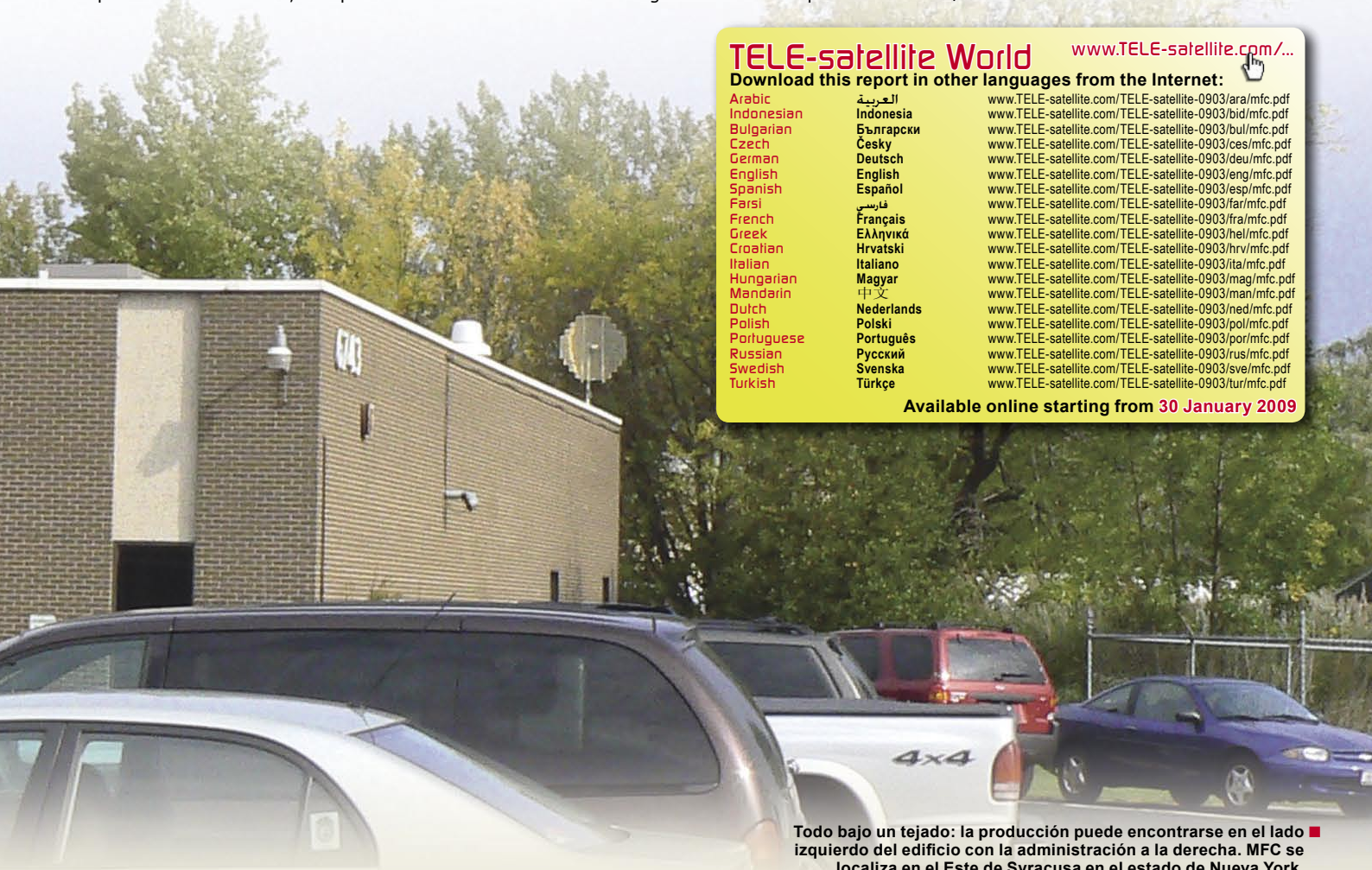
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Todo bajo un tejado: la producción puede encontrarse en el lado izquierdo del edificio con la administración a la derecha. MFC se localiza en el Este de Syracuse en el estado de Nueva York.



Eric Logan es uno de los técnicos de ingeniería. Él puede configurar en su PC que el diseño de un filtro exactamente cumpla los requisitos del cliente MFC también ofrece muchos filtros para el uso del ejército (por ejemplo - para la banda X).

de filtros, sirviendo virtualmente, a todos los segmentos de comercio de telecomunicaciones (Satcom, CATV, Transmisiones Inalámbricas, etc.). Esta diversidad de productos fue nuestro éxito que no era dependiente del éxito de un solo segmento específico del mercado". Adicionalmente, las mejoras técnicas industriales, llevadas a cabo hace algunos años, han aumentado la eficiencia de la producción, permitiendo a MFC ser más competitivo.

¿Qué es lo que produce MFC exactamente? Scott se refiere a una de las líneas de producto más populares de MFC, "Nuestras series de filtros paso banda se usan para la banda C en la recepción de la banda C reciba en los platos a lo largo del mundo. Estos filtros se instalan entre el LNB y el alimento, para quitar las señales no deseadas localizadas por encima o debajo de la banda deseada". Aunque estas señales no deseadas están fuera de banda, su nivel de potencia es tan alto, que esencialmente saturan el LNB y crean pautas de interferencias intermitentes o continuas en toda la banda C. Por consiguiente, los filtros de las fases 1 & 2 en FI son inútiles y la

¿Cuándo se necesita un filtro así? Scott nos dio algunos ejemplos, "los rebotes de las señales de los altímetros de los aviones comerciales y de los aeropuertos están reconocidas como uno de los tipos más comunes de interferencia fuera de banda para los operadores de la banda C. Sin embargo, ese problema normalmente se limita para los platos de banda C localizados cerca de los aeropuertos. También las señales del radar de alta potencia usado en vigilancia militar (por ejemplo en los aviones AWACS) causan problemas a muchos más platos de banda C. Esta vigilancia aumentó muchísimo después de los ataques del 11 de Septiembre y parecía como si todos los platos de banda C de EE.UU. se hubieran visto afectados, junto con muchos otros platos alrededor del mundo. Como resultado, el radar continúa siendo la causa número 1 de interferencias para los operadores de banda C".

"Más recientemente", agrega Scott, "ha aparecido una nueva fuente de interferencias para la banda C, los enlaces Wimax". En las diversas partes del mundo, los enlaces Wimax operan dentro del rango de 3.3-3.8 GHz. Estas señales Wimax pueden romper



■ Si se complica, el equipo de la ingeniería consigue y desarrolla soluciones especiales. Paul Mears (a la izquierda) es el vicepresidente de Ingeniería, Bob Paul (en el centro) es el Ingeniero Jefe y Mike Wise (a la derecha) es el ingeniero mecánico.

filtros normales”, nos comenta Sandy, “si ese filtro no es la solución, el cliente sólo tiene que pagar por el coste del envío”. Sin embargo, los clientes normalmente saben por adelantado qué tipo de filtro necesitan,

por lo que normalmente no necesitan aprovecharse la de la garantía de devolución.

Pero, ¿qué pasa cuándo ellos no saben qué tipo de filtro tienen que escoger? Sandy explica, “Nuestro personal de ventas incluye a socios técnicos que están familiarizados con la mayoría de los problemas a los que se enfrentan nuestros clientes. Así que, dando la aplicación, ellos pueden ayudar al cliente a seleccionar el filtro apropiado para ese trabajo”. Pero para esos clientes que todavía no están seguros incluso si un filtro resolverá su problema, esta garantía les permite simplemente comprar y probar un filtro normal, evitando el alto coste de contratar a un consultor para determinar así su solución.

Durante los años MFC se ha construido un interesante y sofisticado nicho de mercado en el mundo de satélites. Con su combinado conocimiento y su compromiso de calidad, MFC puede acomodarse fácilmente a los deseos especiales de cualquier cliente. Si se está buscando una manera de luchar contra la interferencia, seguro que encontrará la solución correcta en la línea de filtros de MFC.

recepción de la banda C del satélite y de la banda C extendida (3.4-4.2 GHz), debido a que la banda de frecuencias que comparten son comunes a ambos. En esos casos, el operador de banda C debe instalar un filtro pasa banda para banda C para rechazar las señales de Wimax no deseadas. Sin embargo, ya que el filtro está rechazando la misma frecuencia que la señal de Wimax, también se rechazan (sacrifican) algunas frecuencias más bajas de la banda C.

No obstante, operadores de banda C prefieren sacrificar algunas frecuencias de banda C, si el resultado es una buena recepción, limpia en la porción restante de la banda C. Ya que Wimax es relativamente nueva, Scott ve una necesidad potencialmente creciente en estos filtros para los operadores de la banda C para resolver este problema mundial.

Comparado con el funcionamiento para la banda C, los operadores de la banda Ku se enfrentan mucho menos a la interferencia de otras fuentes, ya que ellos operan en una banda de frecuencias menos congestionada, superior a la atestada banda C.

“No obstante, los TRFs (Filtros de Rechazo de Transmisión) se necesitan en muchas aplicaciones de transmisión en banda Ku, donde la transmisión hacia satélite y el enlace de bajada tiene lugar a través de la misma antena. El TRF está montado para recibir el lado del alimento de 10.7-12.75 GHz y para eliminar las fuertes señales de transmisión de 13.75-14.5 GHz que están presentes”, explica Scott.

Ya que MFC también fabrica filtros de paso de banda para la banda Ka, “la demanda de los filtros de banda Ka todavía es bastante baja”, nos afirma Scott, “ya que por ahora el uso de esta banda está limitado”.

Sandy Nelepovitz nos proporcionó una extensa visión de la compañía, “Nuestra base de clientes más grande es la doméstica, ya que MFC también continúa siendo un proveedor principal de filtros de CATV para los operadores de la TV por cable dentro de EE.UU.”. Sandy continúa, “las ventas para la Exportación han estado entre 5% - 7% desde 1992. Sin embargo, nosotros esperamos que esas ventas aumenten más allá con la creciente demanda para los filtros de satélite fuera de los EE.UU.”.

Cualquiera puede pedir a MFC, un gran número de filtros o simplemente uno solo. “Nosotros igualmente ofrecemos una garantía de retorno del dinero de 30 días en los



■ Ruth Arace es la Gerente de recursos humanos y nos proporciona una vislumbre de los empleados de MFC: “Nosotros tenemos 6 ingenieros, 36 personas en producción y 11 administrativos”.



■ En la máquina de corte CNC con Bruce Sentoff (a la izquierda) y Dale Newton (a la derecha). Aquí se producen los cuerpos de muchos modelos de filtros a partir de bloques sólidos. “Nosotros programamos por la tarde las máquinas y después ellas trabajan automáticamente toda la noche”, nos explica Bruce Sentoff.

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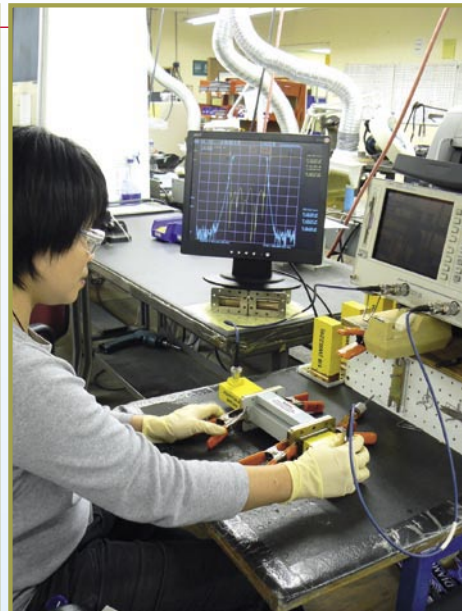
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■ Dale Newton nos muestra la sucesión de la producción: Desde un bloque sólido de aluminio (a la izquierda) se fresa toda la caja principal del filtro con todas las aperturas para los conectores y tornillos (a la derecha).



■ La sonda de recepción del filtro es colocada en su sitio por Vertell Brantley. El pegamento usado debe resistir durante tres horas; los filtros se guardan en esta cámara protegida del aire circundante. Después de esto, los filtros se fijan con un recubrimiento para resistir las condiciones atmosféricas.



■ ¿Todo va correctamente durante la producción? Thuy Naylor realiza una prueba final para determinar si el filtro realiza la características técnicas requeridas conectándolo a un analizador de espectro para confirmar su actuación.



■ Aquí un filtro montado mecánicamente. El MFC emplea a Melisa Banco preparando un filtro para el horno de soldadura...



■ Bill Adamo es el líder del grupo de control de calidad y nos muestra cómo se prueba un filtro para su resistencia ante las condiciones adversas: "El filtro se coloca aquí y se presuriza con aire a 5 PSI". En este punto se puede verificar si desde el conector, así como su montura de alojamiento es impermeable al aire. "¡El agujero más pequeño puede dejar entrar la humedad con el tiempo y podría alterar las características del filtro", dice Bill Adamo, "Nosotros probamos el 100% de nuestros filtros!" Cada cliente puede estar seguro de que cada uno de los filtros de MFC tienen unas especificaciones de calidad superior.



■ MFC realmente hace todo el proceso: los filtros totalmente completos se rocían aquí con una capa de color de protección.



■ ...el proceso de la soldadura real tiene lugar en este horno de soldar por el que los filtros pasan a través.



■ En ruta al cliente: el filtro completamente montado y totalmente probado se envían desde aquí a los clientes alrededor del mundo.



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- Verdaderos Luchadores

Éste equipo joven está camino a la cima en el mercado europeo de los receptores de satélite bajo su propia marca OPENSAT. ABC BIZNIS fue fundada al final de 2004 y desde entonces en un corto tiempo quiere volverse el mayor proveedor de receptores de satélite. Desgraciadamente, el camino al éxito se oscureció por la trágica muerte del fundador de la compañía en 2008. Nosotros quisimos averiguar cómo ABC BIZNIS pudo crecer con este trágico evento.

■ Veronika Rešetková ha sido durante sólo unos meses la directora ABC BIZNIS. Una fotografía de su hijo Erik que fundó la compañía y quién murió recientemente, tiene un lugar especial en su escritorio de la oficina. Es él quién con su fuerza impulsora hace que sea el mayor espíritu de ABC BIZNIS.

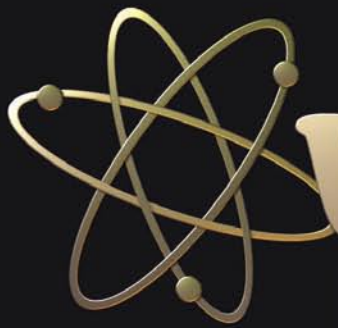
Hoy, ABC BIZNIS es un comerciante al por mayor establecido para el mercado eslovaco local, también ofrece antenas, LNBS, cables coaxiales y receptores. Como fabricante ABC BIZNIS exporta sus propios receptores bajo la marca de OPENSAT.

Al principio del 2007 la compañía empezó la producción de sus primeras líneas de receptores que se comercializaron como OPENSAT. Empezaron con un rango de cuatro receptores de SD que se complementaron a mediados del 2007 con su primer receptor de HD y a mediados del 2008 por la segunda oferta de HD. A propósito, éste también fue un producto que se mostró en la edición anterior de TELE-satélite.

¿Cómo cubrieron con la súbita pérdida de su fundador? La respuesta puede encontrarse en el muy joven equipo preparado por la nueva directora Veronika Rešetková que nos cuenta lo que ha pasado: " Después de la muerte de mi hijo Erik que era el fundador de ABC BIZNIS yo tomé la dirección de su negocio ". Veronika hace un punto enfáticamente:



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■ La Gerente de Comercio Veronika Rešetková, hija de la directora Veronika Rešetková y hermana del fundador de la compañía Erik Rešetková. Ella inventó las estrategias de publicidad de ABC BIZNIS y decide en los diseños de los anuncios: “Las diferentes sombras de verde y negro son nuestros colores corporativos”.



■ Las premisas de la compañía ABC BIZNIS: el almacén está delante, con el complejo de oficinas en segundo plano. “ Pero eso no es todo”, nos revela la gerente de comercio Veronika Rešetková: “Todavía tenemos un área de almacenamiento adicional alquilada en otra compañía “.



■ Una vista de la sección de contabilidad con la gerente de contabilidad Zelmira Remenova (a la izquierda), la auxiliar de contabilidad Martina Ondrusova (en el centro) y el administrador de sistemas Jefferson Kenji Takahashi.



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¡Había rumores que nosotros estábamos buscando una fusión o sociedad, pero esto era una cosa sin sentido! "

Como prueba de esto, dos importantes pilares proporcionan el apoyo en su rutina diaria: por un lado está su equipo de 14 empleados que están cien por cien detrás de la visión de la compañía, y por el otro es el conocimiento extenso que Veronika Rešetková adquirió en su anterior trabajo en la dirección de un negocio similar en el sector de la tecnología.

La hermana más joven de Erik, de también nombre Veronika, nos devuelve a los principios de la compañía: " Incluso a la edad de 13 años ayudé a Erik en el negocio de nuestro padre". Su carrera profesional también empezó en la compañía de su padre, pero después de unos diez años Erik sentía que era tiempo para llevar a la vida sus propias ideas que principalmente se enfocaron en crear su propia

■ El género se prepara para la expedición en el almacén. El gerente de almacén Martin Patay opera la carretilla de transporte, Lukas Michalik (a la derecha) es uno de los conductores, y Jefferson Kenji Takahashi (a la izquierda) comprueba los receptores designados para el flete.



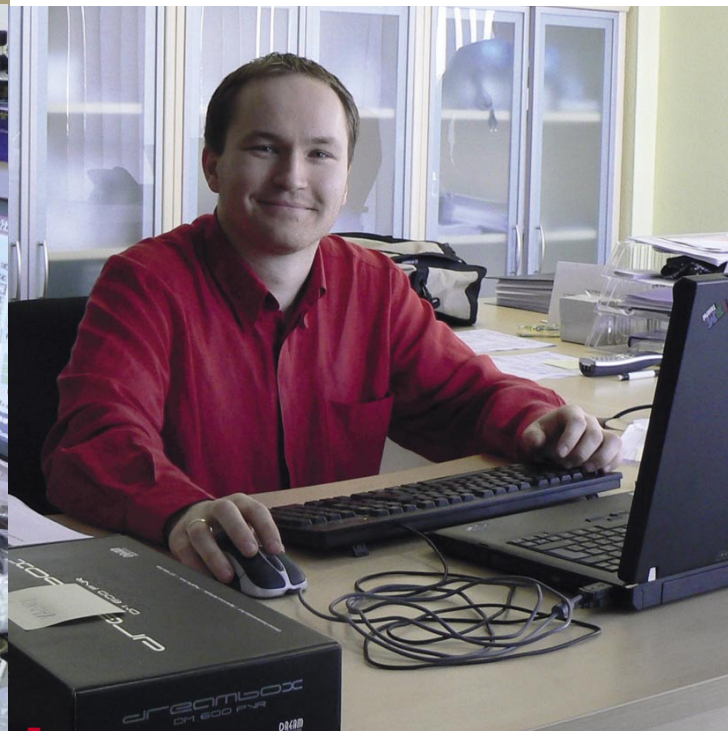
■ La Gerente de compras Karolina Štreicherová está en contacto constante con los proveedores.



■ Todos los que piden por un receptor de satélite de ABC BIZNIS consiguen el contacto con la gerente de ventas Hana Danišová. Ella habla inglés perfectamente y ofrece el apoyo profesional para clientes de toda Europa. Naturalmente, ella está muy orgullosa de los modelos de éxito de ABC BIZNIS: " El OPENSAT X7000 es nuestro equipo de más éxito, un 40 por ciento de pedidos de receptores son para este modelo en particular. El 25 por ciento es para cada uno de los OPENSAT X7000CI y X7700, mientras el siguiente 10 por ciento es actualmente para el XT9500HD, una caja de HDTV.



■ Incluso un producto de calidad puede fallar en algún momento. Peter Ciljak es uno de los dos técnicos de ABC BIZNIS. Aquí le vemos reemplazando un chipset defectuoso en una tarjeta madre.



■ Él gerente de IT Alexander Marko cuida de la infraestructura interna y también da soporte a las ofertas para los clientes de ABC BIZNIS.

marca OPENSAT. Él junto con Karolina Štreicherová que es la gerente de compras de ABC BIZNIS y fundaron la compañía ABC BIZNIS en 2004.

Gracias a sus ideas creativas y el hecho que ellos representaban lo que el mercado estaba buscando exactamente, no tomaron mucho tiempo en tener éxito con los productos que él puso a comercializar bajo su propia marca OPENSAT. Pronto él estableció OPENSAT en el mercado local de Eslovaquia, y entonces en 2007 empezó a buscar el mercado extranjero que primero significó el mercado Checo. Pronto él logró una proporción del 40% en

exportación, en el año 2008 se aproxima a una cuota de exportación de incluso el 50% de receptores con la marca OPENSAT que van al extranjero.

Karolina Štreicherová ha sido parte del equipo desde el mismo principio y nos ha informado sobre las cuotas de exportación de la marca OPENSAT a los diferentes mercados: " La República Checa como nuestro inmediato vecino toma la porción más grande de productos de OPENSAT que comprende un 50 por ciento, seguida por Alemania y Suiza con un 20 por ciento cada uno y el resto de Europa con 10 por ciento ".

ABC BIZNIS actualmente busca países blancos como España y Portugal dónde les gustaría ver su participación creciente en el mercado y están por consiguiente buscando compañeros de distribución. "También estamos mirando Austria y los países de Benelux", agrega Karolina, " así como a nuestros países vecinos como Hungría y Ucrania dónde nosotros también necesitamos más distribuidores ".

La Director Veronika Rešetková nos revela entonces un significativo argumento para la venta: "iNosotros enviamos todos nuestros productos libres de cargo!". Esto se ha hecho posible por una

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flota de cuatro camionetas Mercedes Benz Esprinter que posee ABC BIZNIS y que están en camino para la entrega por toda Europa la mayoría del tiempo. "Nosotros no tenemos ninguna restricción mínima en los pedidos", agrega Veronika, "y por eso nosotros podemos entregar pequeños pedidos incluso a menos coste que agregando los cargos". Éste es en particular un beneficio importante para los pequeños distribuidores. "Nosotros queremos dar la oportunidad a los clientes pequeños para crecer, y por aquí nosotros podemos crecer con ellos", Veronika tiene otro punto bueno. La gerente de ventas Hana Danišová tiene aun más buenas noticias en la reserva: "¡Generalmente, todos nuestros productos vienen con una garantía de dos años!"

Cuando se lea esto habrá nuevos modelos en los estantes. El gerente de ventas Hana Danišová lista los nuevos modelos: "Está el OPENSAT 3000 CR PVR que es un PVR con un solo lector de tarjetas inteligentes. Además el OPENSAT 3000 CRCI PVR que como sus siglas indican tiene un módulo de CI. Ambos modelos también están disponibles como OPENSAT 3500 HDMI PVR y OPENSAT 3500 CI HDMI PVR, que como los nombres sugieren, también disponen de la característica HDMI".

Aunque la pérdida del fundador de la compañía fue un trágico evento como se pueden imaginar, el equipo entero alrededor de Veronika Rešetková se hizo más robusto desde entonces. Todos ellos actúan en concierto y todos y cada uno de ellos tienen su tarea designada para que el funcionamiento sea sumamente fácil. Veronika, la hija de la nueva gerente y hermana del fundador de la compañía, tiene una explicación simple para su éxito: "Todos nosotros sabemos lo que Erik quería lograr y nosotros estamos trabajando con esta perspectiva hacia esa meta".

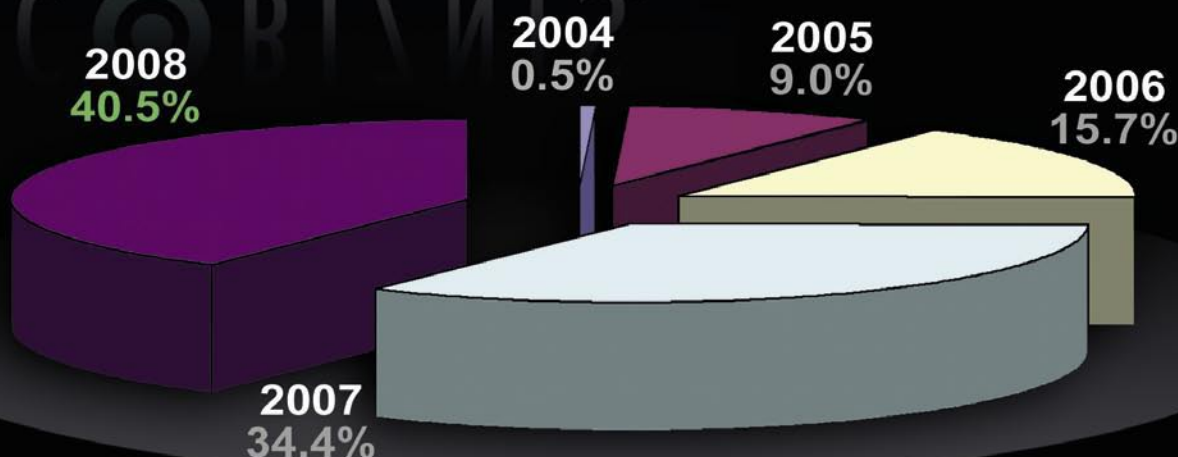
ABC BIZNIS ha sido un desarrollo de gran éxito desde 2004. En aquel entonces las ganancias en Euros fueron del 0.5% del total facturado, comparado con el 40.5% en el 2008.



Preparándose para una fotografía de grupo: los dos Veronikas (la madre en el centro, y la hija al lado de ella) rodeadas por casi todos empleados. La media edad del personal está entre 30 y 35 años.

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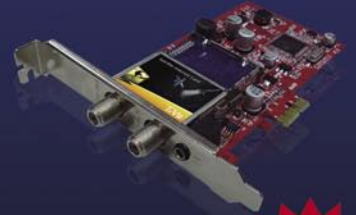
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Manfred Weller, who comes from Cologne/Germany, arrived in Tenerife in the Canary Islands in 1987. He started as a time share salesman: tourists would purchase ownership in a vacation apartment for a certain time each year. But, as an electrician by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

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

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

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

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

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

Mennyfix

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

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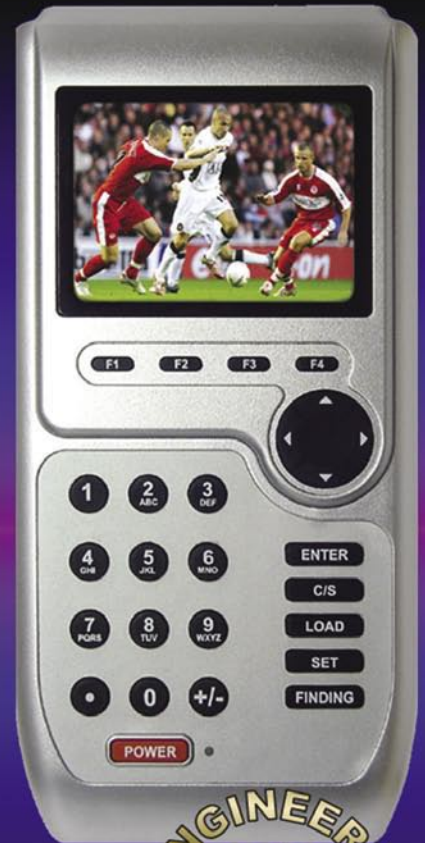
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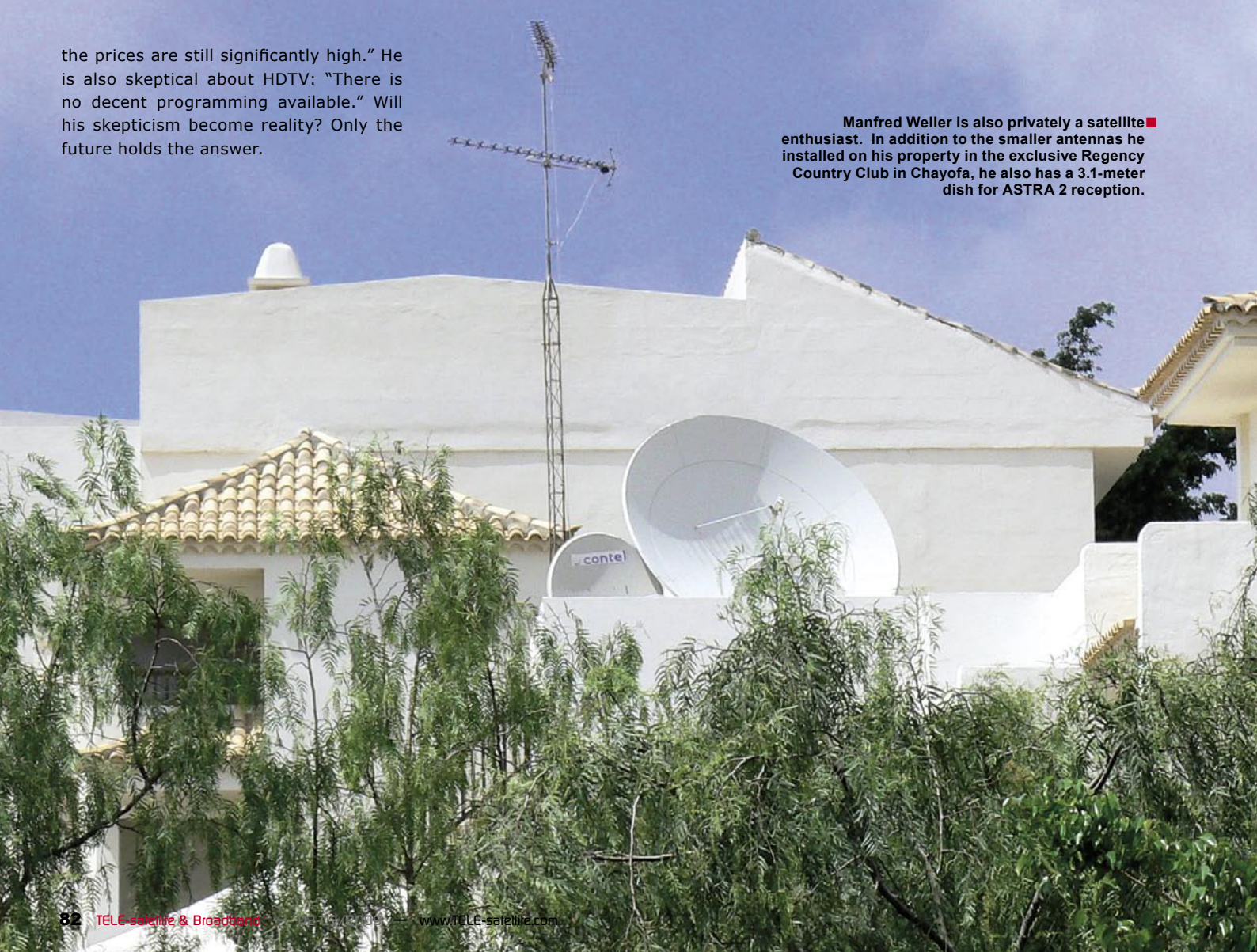


Manfred Weller, nicknamed Menny, speaking with customers. After hanging up his landline telephone, it doesn't take long for his mobile phone to ring. He can speak with his customers fluently in three languages: German, English and Spanish. He has been reading TELE-satellite regularly for the past 14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



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

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



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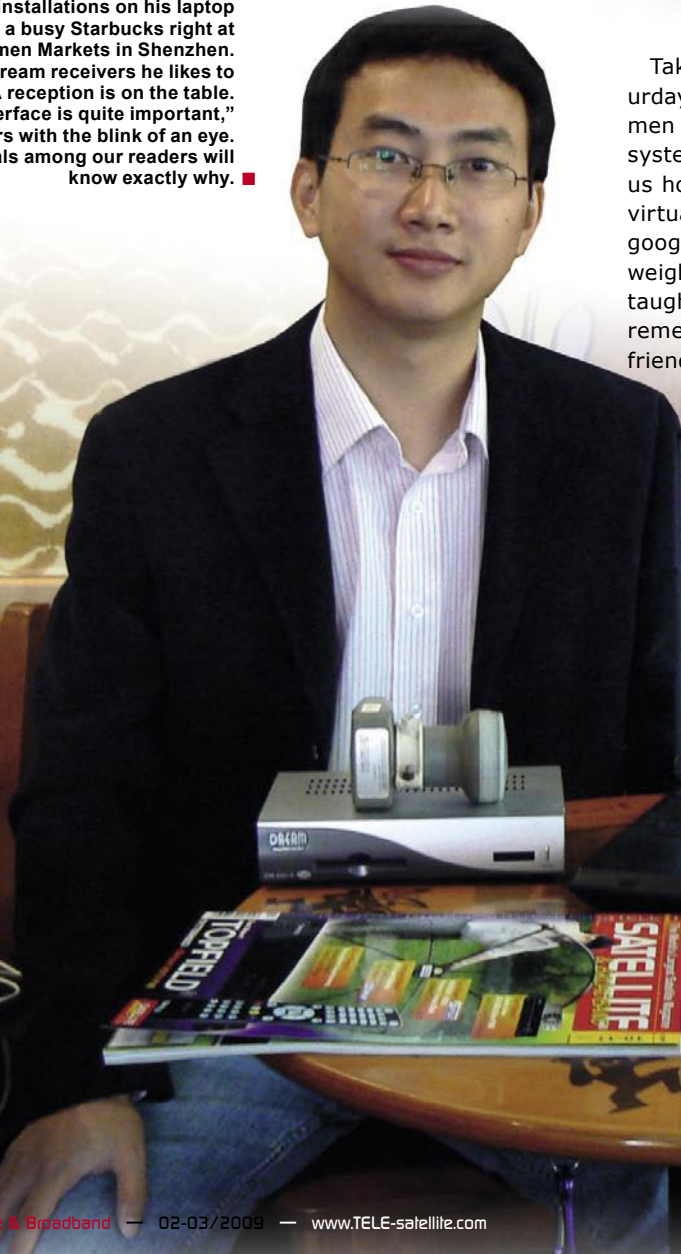
Shenzhen Satellites

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



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

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



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



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

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

Laoge was commissioned to set up five more systems in 2006, one year later the number of jobs had risen to 15 and in 2008 Laoge installed a total of 32 antennas. "But it's still only a hobby. I'm a software engineer by profession," Laoge explains and adds that "I charge 2000 RMB (approx. 200 EUR) for each installation – and this includes antenna,

LNB and receiver." Where does Laoge source his components? "I buy them at auctions on www.taobao.com," Laoge tells us. Taobao is something like the Chinese version of e-bay.

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



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

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Branislav Pekic

EUROPE

EUROPE

ASTRA WITH 55 HDTV CHANNELS

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

SPACE SYSTEMS/LORAL TO PROVIDE SIRIUS 5 SATELLITE

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

SES LAUNCHES ASTRA 1M SUCCESSFULLY

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

MTV TO LAUNCH HDTV SERVICE WITH GLOBECAST

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

BULGARIA

MEGALAN SELECTS SECUREMEDIA FOR IPTV SERVICE

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

CROATIA

T-HT WITH 100,000 SUBSCRIBERS FOR IPTV SERVICE

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

FRANCE

PRIVATE MEDIA SIGNS IPTV CONTENT DEAL WITH VIRGINMEGA

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

FOUR FRENCH TV CHANNELS GO HDTV

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

ORANGE FRANCE WITH 1.6 MILLION SUBSCRIBERS

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

GERMANY

DT WITH 333,000 CUSTOMERS FOR IPTV SERVICE

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

GREECE

PRIMETEL INTRODUCES ARABIC MIDDLEWARE

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

ITALY

TELECOM ITALIA TARGETS 1.5 MILLION IPTV SUBSCRIBERS

In its new three-year strategy, Telecom Italia is aiming to reach 1.5 million IPTV subscribers by the

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

LITHUANIA

TWO WAY MEDIA IN IPTV GAMES DEAL WITH PENKI KONTINENTAI

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

TEO WITH 47,500 IPTV SUBSCRIBERS

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

MACEDONIA

MAKTEL LAUNCHES MAXTV IPTV SERVICE

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

THE NETHERLANDS

KPN WITH 30,000 IPTV SUBSCRIBERS

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

POLAND

TPSA ADDS 3,000 IPTV SUBSCRIBERS IN Q3

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

CYFROWY POLSAT LAUNCHES ECHOSTAR'S NEW STBS

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

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

RUSSIA

IPTV SUBSCRIBERS TO DOUBLE BY 2012

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

EUTELSAT TO COMPENSATE SHORTAGE OF SATELLITE CAPACITY

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

REDCOM BRINGS HDTV TO FAR EAST REGION

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

SCANDINAVIA

TELIA SONERA RACHES 450,000 IPTV SUBSCRIBERS

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

AMINO ACQUIRES TILGIN'S IPTV BUSINESS

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

SPAIN

REGULATOR SUSPENDS TELEFONICA'S TRIPLE-PLAY

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

TELEFONICA LAUNCHES IMAGENIO HD

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

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

SWITZERLAND

SWISSCOM BLUEWIN TV ADDS HD VOD TITLES

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

TURKEY

SEACHANGE AND ARGELA TO BRING IPTV TO TURK TELEKOM

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

AIRTIES SELECTS OPERA FOR NEW IPTV STB

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

UNITED KINGDOM

BROADCASTERS TO LAUNCH HD ON DTT

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

BBC PLANS OPEN IPTV PLATFORM

The BBC is in preparations to create an open industry standard Internet TV platform codenamed 'Canvas', intended to enable content providers to easily launch Web TV services, according

to Erik Huggers, the corporation's Director of Future Media & Technology, speaking at industry event Mipcom. He stated that the service would potentially be available via a set-top box and enable "any service to build applications onto the platform". Huggers estimates that, if approved, Canvas is at least 12 to 18 months away.

BT VISION LAUNCHES CATCH-UP IPTV PLATFORM

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

SKY LAUNCHES ONLINE TV SERVICE

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

FOX SIGNS VOD/IPTV DEAL WITH BT VISION

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

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

BBC INTRODUCES LIVE STREAMS ON IPTV PLAYER

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

NORTH AMERICA

ARIANESPACE TO LAUNCH VIASAT-1

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

CANADA

ZENIT ROCKET TO LAUNCH TELSTAR SATELLITE

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

TELESAT TO MANAGE TWO NEW SATELLITES

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

INTRACOM DELIVERS IPTV SOLUTION TO WIGHTMAN TELECOM

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

UNITED STATES

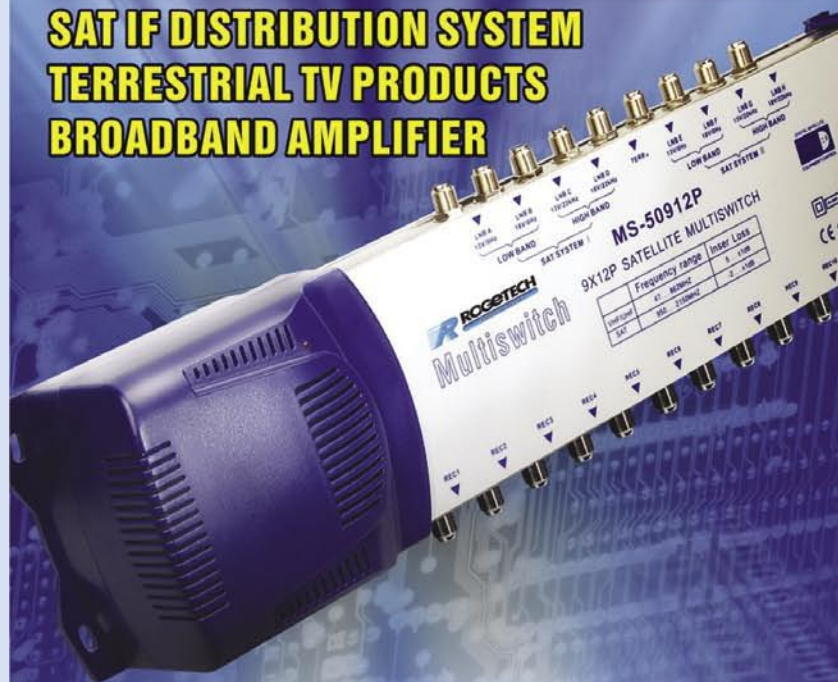
ENTONE SELECTED BY ITC FOR IPTV DEPLOYMENT

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

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AT&T TO SELL IPTV SERVICE AT RETAIL SERVICE

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

KIT DIGITAL TO DELIVER IPTV STB

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

RURAL IPTV CARRIERS GET HBO, CINEMAX RIGHTS

The National Rural Telecommunications Cooperative (NRTC) has forged a long-awaited agreement

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

SES AMERICOM FILLS UP CAPACITY ON AMC-21 SATELLITE

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

WORLDSPACE FILES FOR BANKRUPTCY

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

VERIZON DELIVERS 1,000 HD VOD OFFERINGS

Verizon's FiOS TV customers can now enjoy more than 1,000 HD video-on-demand (VOD) titles per

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

ION TV SUITE TO LAUNCH IN HD DURING 2009

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

TV-DESI LAUNCHES NEW IPTV SERVICE FOR ASIANS

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

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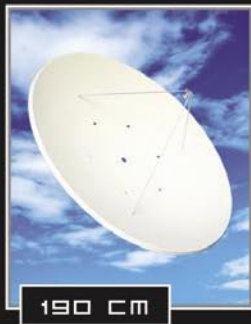
240 CM



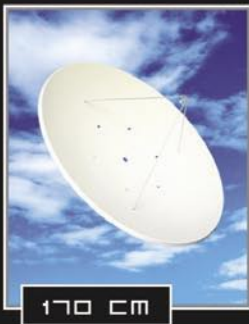
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210 CM



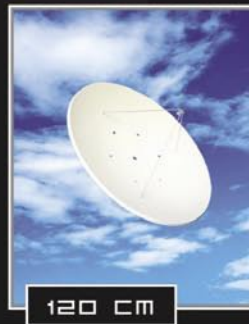
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TWIN LAKES TELEPHONE COOPERATIVE LAUNCHES IPTV TRIALS

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

LATIN AMERICA

COLOMBIA

EMCALI AIMS FOR 13,000 IPTV CLIENTS

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

VENEZUELA

VENESAT-1 LAUNCHED INTO ORBIT

The country's first satellite Simon Bolivar or Venesat-1 was successfully launched on October 29 as part of a joint project with China that started three years ago. The whole project is to cost USD 406 million and the Venesat-1, with a

designed life of 15 years, will be used in broadcasting, distance learning, medical services, among others. The satellite became operational on December 20. Venezuela intends to launch its second satellite, for its own use, in 2013.

ASIA

GOLDSTONE TO LAUNCH IPTV SERVICES IN MALAYSIA, THAILAND

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

ORBITAL COMPLETES WORK ON NSS-9 SATELLITE

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

IPTV TO REACH 22.4 MILLION SUBSCRIBERS BY 2013

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

CHINA

CHINA TELECOM TOPS 1.5 MILLION IPTV SUBSCRIBERS

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

JIANGSU PROVINCE IPTV SUBSCRIBERS UP 471 PERCENT

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

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

SMC TO LAUNCH IPTV IN GUANGDONG PROVINCE

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

HUAXIA NETWORK RECEIVES IPTV LICENSE

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

UTSTARCOM GETS IPTV ORDER FROM HUNAN PROVINCE

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

INDIA

AKSH TARGETS 40,000 IPTV SUBSCRIBERS

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

BHARTI AIRTEL TO LAUNCH IPTV IN SIX CITIES

After launching a DTH service, Bharti Airtel have started a trial run of their proposed IPTV service in New Delhi and are now planning to launch its commercial services in six cities (Delhi, Mumbai,

Kolkata, Chennai, Bangalore and Hyderabad) soon. According to the president of telecom services, Atul Bindal, currently 1,000 households in New Delhi are covered on a pilot basis. Airtel currently has 2.5 million customers for both landline and broadband, whom it plans to target with IPTV services.

BSNL TO LAUNCH IPTV SERVICE IN PUNJAB

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

DTH OPERATORS TO OFFER HD CONTENT

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

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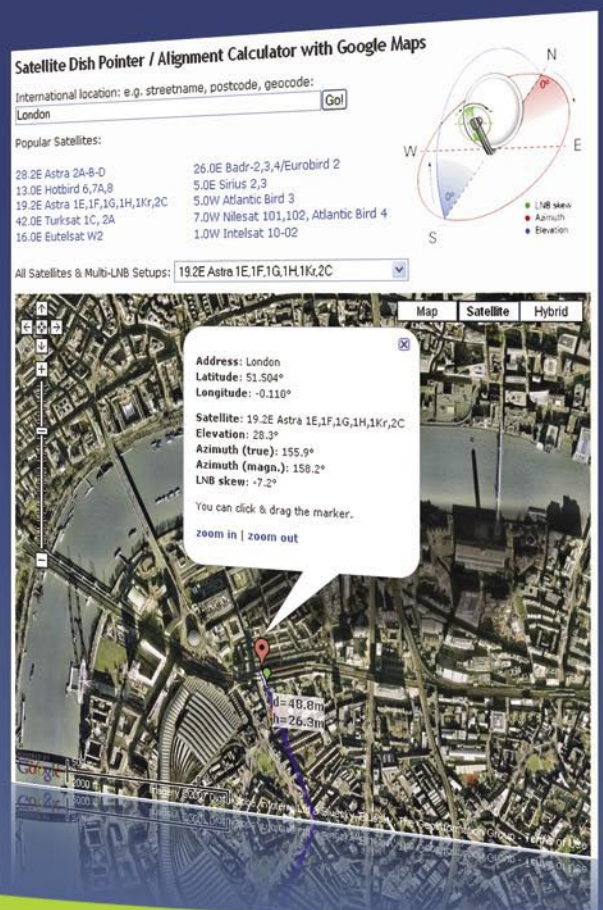
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JAPAN

NHK LAUNCHES ON DEMAND INTERNET PAY-TV

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

JAPAN WITH OVER 3 MILLION IPTV SUBSCRIBERS BY 2012

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

MITSUBISHI ELECTRIC GETS ORDER FOR ST-2 SATELLITE

Mitsubishi Electric has received an order to build the ST-2 communications satellite for a joint venture between Singapore's SingTel and Taiwan's Chunghwa. Currently, SingTel and Chunghwa jointly

own the ST-1 and use this satellite in their various communications businesses. The ST-2 will succeed the ST-1 as their next communications satellite. For the production of the ST-2, Mitsubishi Electric has proposed to use its original DS2000 satellite bus platform, which was developed based on the Engineering Test Satellite-8 (ETS-8) made for NASDA.

KAZAKHSTAN

KAZAKH SATELLITE BROUGHT BACK INTO ORBIT

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

LEBANON

ORANGE AND SOLIDERE LAUNCH FIRST IPTV SERVICE

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

Solidere-operated private broadband network that was designed and deployed by Orange in 2006.

PAKISTAN

PTCL REPORTS OVER 1,000 IPTV SUBSCRIBERS

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

SINGAPORE

VOOM TEAMS UP WITH IFW FOR 2009 LAUNCH

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

STARHUB LAUNCHES NEW HD DVR

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

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

SOUTH KOREA

KT TO OFFER NATIONAL TV CHANNELS ON IPTV

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

SK BROADBAND SELECTS TANDBERG FOR IPTV

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

TAIWAN

CHUNGWA TELECOM ENDS Q3 WITH 591,000 SUBSCRIBERS

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

UNITED ARAB EMIRATES

AL ROSTAMANI PARTNERS WITH NAGRAVISION ON IPTV PLATFORM

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

DU SURPASSES 50,000 IPTV SUBSCRIBER MARK

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

AUSTRALIA & PACIFIC

NEW ZEALAND

FREEVIEW LAUNCHES HD BOX

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

AFRICA

ARIANESPACE TO LAUNCH RASCOM SATELLITE IN 2010

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

NIGERIA

TECHNICAL PROBLEMS SHUT DOWN NIGERIAN SATELLITE

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

SOUTH AFRICA

SECUREMEDIA SELECTED FOR IPTV CONTENT PROTECTION

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

WORLD

ATIS RELEASES NEW IPTV STANDARD

The Alliance for Telecommunications Industry Solutions (ATIS) has released a new standard created by the ATIS IPTV Interoperability Forum (IIF) specifying the initial set of activities that prepare devices in the consumer domain to receive and consume IPTV services. The new Network Attachment and Initialization of Devices and Client Discovery of IPTV Services (AIS-0800017) standard is described by ATIS as a foundation specification addressing fundamentals such as the initialisation

and attachment phases for the Delivery (home) Network Gateway (DNG) and the IPTV Terminal Function (ITF), which includes the set-top box. Specifically, the new release covers network attachment, service provider discovery, service provider attachment and services discovery procedures.

INTELSAT RETIRES MARISAT-F2 SATELLITE

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

MTVNHD SET FOR GLOBAL ROLL OUT

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

GLOBAL IPTV SUBSCRIBERS TO REACH 89.6 MILLION IN 2012

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

MORE THAN 1500 NEW TRANSPONDER LEASES IN NEXT TEN YEARS

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

BNS LAUNCHES HD VOD VIA IPTV

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



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

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Exhibition Preview

● **3 - 5 March 2009: CABSAT 2009**

Middle East's Electronic Media & Satellite Communications
Dubai World Trade Center, UAE
www.cabsat.com



● **18 - 20 March 2009: Convergence India 2009**

17th International Exhibition & Conference
Pragati Maidan, New Delhi, India
www.convergenceindia.org



● **21 - 23 March: CCBN 2009**

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



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

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



● **25 - 27 May 2009: MECOM 2009**

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



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

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



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

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



● **26 - 28 August 2009: SET 2009**

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



● **6 - 11 October 2009: CeBIT Eurasia**

ICT Trade Show
Tüyap Fuar ve Kongre Merkezi
E5 Karayolu, Gürpınar Kavşağı, 34522 Büyükçekmece
İstanbul, Turkey

TELE-satellite Deadlines

Editorial Deadlines, Magazine Publishing Dates

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

SatcoDX Global Satellite Chart

Compiled by the Worldwide SatcoDX Monitoring Stations, exclusively for TELE-satellite Magazine
New Channels Since Last Issue of TELE-satellite Magazine are marked with a ●

EUROBIRD 4

12410 V DVB-S2	27500
12300 V Standard TV	27500
12100 V DVB-S2	27500
12300 V Standard TV	27500

EUROBIRD 4 004.0° East

11160 H APELENZ-S	27500
11160 H APELENZ-S	27500
11160 H APELENZ-S	27500
11160 H APELENZ-S	27500

EUROBIRD 4 005.0° East

11725 H Ebs Europe By Satell	27500
11725 H EU Test	27500
11725 H EU Test	27500
11725 H EU Test	27500

EUROBIRD 9

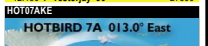
12418 H Intertrack-Data To	27500
12418 H ISIS Channel	27500
12418 H LADROKES IP DATA	27500
12418 H LTEST	27500
12418 H LTRX SILVER	27500
12418 H SIS BTC-Vision a	27500
12418 H SIS Racing - Data	27500
12418 H SIS Racing - Germ	27500
12418 H SIS Racing - INDE	27500
12418 H SIS UK BTC	27500
12418 H SIS+	27500
12418 H SPECIAL LADROKES	27500
12418 H SPECIAL WILLIAM H	27500
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12418 H VIDEO AUDIO AND	27500
12418 H WHIS INFL CLEAR	27500
12418 H WILLIAM HILL - SI	27500
12418 H ALT VC 11	27500
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12418 H AUDIO AND DATA ON	27500
12418 H EMP TEST CLEAR	27500
12418 H H WILLIAM HILL - SI	27500
12418 H TEST CHANNEL 135	27500
12608 H TV 1000 Ru Kino FSS	27500
12608 H TV1000 Action East	27500
12608 H TV1000 East FSS	27500
12608 H TV Hungary FSS	27500
12608 H Viassa Sport FSS	27500
12608 H Viassa FSS	27500
12637 H Explorer/Spice FSS	14463
12637 H KANAL UKRAINA	27500
12637 H NET	27500
12637 H Channel 5 (Ukraine)	27500
12637 H GLAS	27500
12637 H KRT	27500
12637 H NOXY CHANNEL	27500
12637 H RADA	27500
12637 H Star TV UKR	27500
12637 H Love Radio	27500
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Table with columns: Freq Pol Channel Name, Symbol rate, GHz, Freq Pol Channel Name, Symbol rate, GHz. Lists satellite channels for various regions including Europe, Africa, and Asia.

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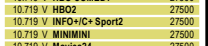
Table with columns: Freq Pol Channel Name, Symbol rate, GHz, Freq Pol Channel Name, Symbol rate, GHz. Lists satellite channels for various regions including Europe, Africa, and Asia.



HOTBIRD 7A 013.0° East



KU-BAND



EUTELSAT W2 016.0° East



EUTELSAT W2 016.0° East



EUTELSAT W2 016.0° East

SatcoDX Global Satellite Chart 02/2009

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
11513 V ITV	29950	11536 H Eurosport 2	30000	11534 V EUROSPORT	27500	12070 H PREMIERE START	27500	12405 V DELUXE MUSIC	27500	12402 V L'ÉQUIPE TV	27500
11513 V Pro Tv Int	29950	11536 H Eurosport 1	30000	11534 H FILLES TV	27500	12070 H CRIME	27500	12405 V DELUXE MUSIC	27500	12402 V NATIONAL GEO	27500
11513 V Trinit	29950	11536 H G SPORT ONE	30000	11534 V LCI	27500	12070 H RTL PASSION	27500	12405 V DELUXE MUSIC	27500	12402 V DMAX	27500
11513 V Minisat	29950	11536 H Hotshot	30000	11534 V PLANETE	27500	12070 H P-BOER70ER	27500	12405 V DELUXE MUSIC	27500	12402 V PLANETE NL/OMIT	27500
11513 V Radio K	29950	11536 H Infosport	30000	11534 V PLANETE JUNIORS	27500	12070 H P-BOER90ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11513 V RF	29950	11536 H M6 Music Hits	30000	11534 V PLANETE TV	27500	12070 H P-BOER100ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11513 V Vocea Evangheliei	29950	11536 H M6 Music Black	30000	11534 V TUI	27500	12070 H P-BOER120ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V B92	30000	11536 H M6 Music Hits	30000	11534 V TMC	27500	12070 H P-BOER130ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V Cinemania	30000	11536 H M6 Music Hits	30000	11534 V VOYAGE	27500	12070 H P-BOER140ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V Doq	30000	11536 H M6 Music Hits	30000	11534 V MTV ENTERTAINMENT	27500	12070 H P-BOER150ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V Enter	30000	11536 H M6 Music Hits	30000	11534 V MTV Euro	27500	12070 H P-BOER160ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V Film +	30000	11536 H M6 Music Hits	30000	11534 V TPS STAR	27500	12070 H P-BOER170ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V Happy/Kosava	30000	11536 H M6 Music Hits	30000	11534 V MTV IDOL	27500	12070 H P-BOER180ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V HBO Adria	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER190ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V RTS1	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER200ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V RTS2	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER210ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V SOS	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER220ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V Sport Klub	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER230ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V Studio 5	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER240ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V Super TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER250ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V Ultra TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER260ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12530 V B92	29950	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER270ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12530 V DM SAT	29950	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER280ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12530 V Top Music	2156	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER290ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12530 V BN Rsrpska	4340	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER300ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12530 V RTV SAT	29950	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER310ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12530 V first_service	2934	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER320ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12600 V ATLAS	6771	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER330ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12600 V RTV MONTENEGRO	6771	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER340ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12600 V RTV ATLAS	6771	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER350ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12600 V Radio Montenegro	6771	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER360ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12648 V BH-Radio1	5200	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER370ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12648 V 44-SNA TV promo	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER380ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12650 H 77-AUDIO UNIC 15000	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER390ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12650 H CH 10-UNIRE BLU	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER400ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12650 H CH 20-VERDE S	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER410ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12650 H CH 4-SNA TV	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER420ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12650 H CH 6-UGRIGIO S	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER430ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12650 H CH 7-SPORTIVE S	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER440ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12650 H UNIRE 1-GRIGIO	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER450ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12650 H UNIRE 2-GRIGIO	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER460ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12650 H CH 3-CANALE TES	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER470ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V Kanal A	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER480ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V POP TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER490ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V SportKlub Slovenja	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER500ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V TV Pika	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER510ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V TV Slovenia	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER520ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V ALFA TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER530ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V ART Channel	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER540ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V ASTRO TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER550ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V Duga TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER560ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V Estate TV & TVI	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER570ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V Hiphop TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER580ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V InfoTV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER590ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V Radio SvetPlus	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER600ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V StatističVestestest	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER610ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V Svet Plus	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER620ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V Test	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER630ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V TV 24 SAT	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER640ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V TV Jasmin	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER650ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V GRAND	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER660ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V Kriko Romengo	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER670ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V KISS DONA WLASKI	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER680ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V KISS RADIO - MINH	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER690ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V KISS ROK RADIO -	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER700ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V LUEBA NAKA	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER710ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V LUBJICA-KAMENJE	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER720ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V M6 MITIC BILJANA	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER730ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V MKS RADIO	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER740ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V Mladost Radio	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER750ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V ORV Valentino BH	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER760ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V PLANET MUSIC	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER770ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
12726 V Radio 1</											

Main table containing satellite coverage data with columns for Freq Pol Channel Name, Symbol rate, GHz, and various channel details. Includes sub-sections for North Africa, Middle East, and Eurobird 2.



http://www.SatcoDX.com/0260 Coverage Code BADR03KB

11.727 H Algeria 27500

11.727 H Bouyi Moutaenna 27500

11.727 H Enteria 27500

11.727 H Skopje 27500

11.727 H Hannibal 27500

11.727 H Libya Sport (Radiat) 27500

11.727 H Libya TV 27500

11.727 H Mauritania 27500

11.727 H Morocco TV 27500

11.727 H Tunisia 27500

11.727 H Algeria R1 27500

11.727 H Mauritania R1 27500

11.727 H R-Tunisie-Culture 27500

11.727 H R-Tunisie-Internat 27500

11.727 H R-Tunisie-National 27500

11.727 H Mauritania R1 27500

11.747 V Al Thuraaya 27500

11.747 V AAKAR 27500

11.747 V Al Jawhara TV 27500

11.747 V Alkhayt 27500

11.747 V Ashop 27500

11.747 V Oman 27500

11.747 V Ouyun Jeddah 27500

11.747 V Saudi 2 27500

11.747 V Tayba TV 27500

11.747 V Test 27500

11.747 V AMAN ENGLISH PROG 27500

11.747 V OMAN GENERAL PROG 27500

11.747 V OMAN YOUTH PROGRA 27500

11.747 V Radio RMC 27500

11.747 V Radio S2 R1 27500

11.747 V Saudi R1 27500

11.747 V Saudi R2 27500

11.765 V Al Shop 27500

11.765 V Future USA 27500

11.765 V Ghinva 27500

11.765 V Salm TV 27500

11.765 V Skopje 27500

11.765 V Test 1 27500

11.765 V Test 10 27500

11.765 V Test 11 27500

11.765 V Test 13 27500

11.765 V Test 15 27500

11.765 V Test 2 27500

11.765 V Test 8 27500

11.765 V Al Shop 27500

11.804 H Abu Dhabi 27500

11.804 H Abu Dhabis 27500

11.804 H AD Sports 27500

11.804 H Al Amarat 27500

11.804 H AlQuds TV 27500

11.804 H Al Sharj 27500

11.804 H Al Thuraaya 27500

11.804 H Alkhayt 27500

11.804 H AMONAWAT 27500

11.804 H ANI PLANET 27500

11.804 H BCC PRIME 27500

11.804 H BOOMERANG 27500

11.804 H CARTOON NETWORK 27500

11.804 H CINEMA CITY 1 27500

11.804 H DISCOVERY CHANNEL 27500

11.804 H DISCOVERY TALK 27500

11.804 H DISNEY CHANNEL 27500

11.804 H ECRAT 27500

11.804 H ORBIT NEWS 2 27500

11.804 H SUPERMOVIE+2 27500

11.804 H TVM 27500

11.804 H Future USA 27500

11.804 H Ghinva 27500

11.804 H Hana 27500

11.804 H Poet 27500

11.804 H SARJAH TV 27500

11.804 H Strike 27500

11.804 H Test 1 27500

11.804 H Test 10 27500

11.804 H Test 11 27500

11.804 H Test 12 27500

11.804 H Test 13 27500

11.804 H Test 15 27500

11.804 H Test 2 27500

11.804 H Test 3 27500

11.804 H Test 4 27500

11.804 H Test 5 27500

11.804 H Test 6 27500

11.804 H Test 8 27500

11.804 H Training 27500

11.804 H ABU DHABI RADIO 27500

11.804 H AD RAD10 27500

11.804 H ALATHAN Radio 27500

11.804 H EMARAT FM 27500

11.804 H Fujairah Almar 27500

11.804 H LINA 27500

11.804 H QURAN AQAM 27500

11.804 H SHARJAH Radio 27500

11.804 H SOWT ALMUSICA 27500

11.804 H Test 1 27500

11.843 H Al-Resaala 27500

11.843 H Arabat Promotion Ch 27500

11.843 H Fox Movies 27500

11.843 H Inf.Mohammed 27500

11.843 H Rotana Cinema 27500

11.843 H Rotana City 27500

11.843 H Rotana Khalijah 27500

11.843 H Rotana Music 27500

11.843 H Rotana Tarab 27500

11.843 H Rotana Zaman 27500

11.843 H Test 1 27500

11.843 H Test 2 27500

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11.843 H Test 124 27500

11.843 H Test 125 27500

SatcoDX Global Satellite Chart 02/2009

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
11.892 H NTV	12800	11.899 V KIBIRI BENC TV	2960	11.980 V Z TV	4150	11.766 H TURKAST TEST 7	27500	11.843 H ESPN CLASSIC	27500	11.973 V HALY	27500
11.892 H NTV Sport	12800	11.899 V MNC TURK	2960	11.766 H ZAZANTEP OLAY	22000	11.766 H UNIA	27500	11.843 H ESCORT	27500	11.973 H Kanal Avrupa	27500
11.892 H NTV Radyo	12800	11.899 V CYS FREQ	2960	11.103 V KANAL 55	2175	11.766 H Abu Dhabi Radio	27500	11.843 H TRAVEL & LIVING	27500	11.973 H BERAT	27500
11.892 H Radyo Eksen	12800	11.899 V FIRSIT FM	2960	11.012 V D YESILGAM	30000	11.766 H Alfort	27500	11.843 H WORLD	27500	11.973 H HALY	27500
11.905 H KANAL D	6666	11.899 V Service 2	2960	11.012 V D COGUK	30000	11.766 H POLIS RADYOSU	27500	11.843 H CALENDAR NETWORK	27500	11.973 H Kanal Avrupa	27500
11.905 H SMART HITS	6666	11.899 V KONTY	2200	11.012 V D YAGILGAM	30000	11.766 H AL SHARJAH	27500	11.843 H D SHOPPING	27500	11.973 H TGRTR FM	27500
11.905 H SMART JAZZ	6666	11.899 V AS10	26000	11.012 V D FANTASY	30000	11.777 H KANAL 7	4800	11.843 H FASHION TV	27500	11.973 H (Empty Name)	5200
11.905 H SMART OLDSIES	6666	11.899 V DEM	26000	11.012 V D FX	30000	11.777 H RAYO 7	4800	11.843 H KANAL D	27500	11.973 H NICKELBOY	27500
11.905 H SMART ROCK	6666	11.899 V DugumTV	26000	11.012 V D L0CA1	30000	11.778 V DUBAI RACING CHANNEL	27500	11.843 H TV 3	27500	11.973 H Radio-5	27500
11.905 H SMART SLOW	6666	11.899 V KANAL 12	26000	11.012 V D MOVIES 24	30000	11.778 V Dubai Sports.	27500	11.843 H CANAL 5	27500	11.973 H YON FM	27500
11.905 H IRADYO PORTAL	6666	11.899 V M-ON	26000	11.012 V D MOVIES 24 EROTICA	30000	11.778 V Dubai TV	27500	11.843 H CLUP TV	4444	11.973 H ShowMovies	27500
11.905 H RADYO D	6666	11.899 V Manolya TV	26000	11.012 V D MOVIESMART	30000	11.778 V MusicPlus	27500	11.843 H Tarafar TV	4444	11.973 H ShowMovies 2	27500
11.920 H ANKA TV	3333	11.899 V MAVI KARADENIZ	26000	11.012 V D YESILGAM XXX	30000	11.778 V NOJOM 1	27500	11.843 H AKILLI TV	4444	11.973 H ShowMovies 3	27500
11.920 H EUROSPORT HD	17900	11.899 V TURKISH PROM	26000	11.012 V D SMART HITS	30000	11.778 V Sams Dubai	27500	11.843 H Smart	4444	11.973 H ShowMovies 4	27500
11.970 H HDTV SMART	17900	11.899 V TURKISH PROM	26000	11.012 V D SMART JAZZ	30000	11.778 V ANI Planet	27500	11.843 H TGRTR TV	3150	11.973 H ShowMovies 5	27500
11.970 H DISCOVERY HD	17900	11.899 V TURKISH PROM	26000	11.012 V D SMART OLDSIES	30000	11.778 V ANI Planet	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies Extra	27500
11.970 H KANAL D HD	17900	11.899 V YOTV	26000	11.012 V D SMART ROCK	30000	11.778 V ANI Planet	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 1	27500
11.970 H Nickelodeon	4000	11.899 V DEM RADYO	26000	11.012 V D SMART SLOW	30000	11.778 V ANI Planet	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 2	27500
11.984 H MTV TURKYE	4000	11.899 V TV 5int	26000	11.014 V FASHIONCINE	2050	11.785 H ARY	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 3	27500
12.002 H atv	4800	11.899 V TURKISHOP	26000	11.016 V D YESILGAM	2050	11.785 H ASIA	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 4	27500
12.008 H KANAL 1	4400	11.899 V YOTV	26000	11.016 V D SMART OLDSIES	30000	11.785 H ASIA	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 5	27500
12.008 H Intercom	4400	11.899 V DEM RADYO	26000	11.016 V D SMART ROCK	30000	11.785 H BAUM	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 6	27500
12.008 H MARMARA RADYO	4400	11.899 V KUFE FM	26000	11.016 V D MOVIESMART	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 7	27500
12.015 H TGRTR Haber	4800	11.899 V Metro FM	26000	11.016 V D PEMSART	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 8	27500
12.015 H TGRTR Pazartama	4800	11.899 V KANAL INT	26000	11.016 V D PEMSART	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 9	27500
12.020 H ANKA TV	3333	11.899 V KANAL INT	26000	11.016 V D SMART HITS	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 10	27500
12.022 H FOX	5300	11.899 V TV 5int	26000	11.016 V D SMART OLDSIES	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 11	27500
12.028 H samanyolu tv	4557	11.899 V TURKISHOP	26000	11.016 V D SMART ROCK	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 12	27500
12.028 H Bure FM	4557	11.899 V YOTV	26000	11.016 V D MOVIESMART	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 13	27500
12.028 H NTV Radyo	4557	11.899 V DEM RADYO	26000	11.016 V D PEMSART	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 14	27500
12.028 H Shaber Radyo	4557	11.899 V KUFE FM	26000	11.016 V D SMART HITS	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 15	27500
12.127 H Blnko TV	7400	11.899 V BUSINESS	3333	11.016 V D SMART OLDSIES	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 16	27500
12.127 H Denge TV	7400	12.140 V NUMBER ONE TV	4444	11.016 V D SMART ROCK	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 17	27500
12.127 H Ekin TV	7400	12.140 V TURKAST ANITIM	4444	11.016 V D MOVIES 24 EROTICA	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 18	27500
12.127 H Ekin TV	7400	12.140 V NUMBER ONE FM	4444	11.016 V D PEMSART	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 19	27500
12.127 H ILAN TV	7400	12.140 V POLIS RADYOSU	4444	11.016 V D SMART HITS	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 20	27500
12.127 H IMAN TV	7400	12.140 V RADYO KLAS	4444	11.016 V D SMART OLDSIES	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 21	27500
12.127 H Piny	7400	12.140 V RADYO MYSOYONOSE	4444	11.016 V D SMART ROCK	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 22	27500
12.127 H Kanal 6	7400	12.140 V AZAD AZERBAJAN	2800	11.016 V D MOVIESMART	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 23	27500
12.125 H ASTRO	3703	12.125 H ASTRO	3703	11.016 V D PEMSART	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 24	27500
12.125 H FASIL	3703	12.125 H ASTRO	3703	11.016 V D SMART HITS	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 25	27500
12.125 H ALJAZEER	2222	12.125 H ASTRO	3703	11.016 V D SMART OLDSIES	30000	11.785 H STARN	27500	11.843 H TGRTR FM	3150	11.973 H ShowMovies 26	27500

Table with columns: Freq Pol Channel Name, Symbol rate GHz, and a list of satellite channels including 12.593 H Viva, 12.593 H Nesali TURK, 12.593 H Radyo Viva, etc.

Table with columns: Freq Pol Channel Name, Symbol rate GHz, and a list of satellite channels including 11.977 H DISCOVERY, 11.977 H NGA, 11.977 H NICKLEODEON, etc.

Table with columns: Freq Pol Channel Name, Symbol rate GHz, and a list of satellite channels including 11.996 V Mjude Akdeniz, 11.996 V Nesliye Faga, 11.996 V Oqgur Radyo Ankara, etc.

Table with columns: Freq Pol Channel Name, Symbol rate GHz, and a list of satellite channels including 11.591 V Star Movies, 11.591 V Star Vijay, 11.591 V Star World, etc.

Table with columns: Freq Pol Channel Name, Symbol rate GHz, and a list of satellite channels including 11.044 V Radio CH53, 11.044 V Radio CH54, 11.044 V Radio CH55, etc.

Table with columns: Freq Pol Channel Name, Symbol rate GHz, and a list of satellite channels including 4.055 R Sawa N. Africa Radio, 4.055 R Sawa Sudan Radio 455, 4.055 R VOA Djibouti/Farda, etc.

Table with columns: Freq Pol Channel Name, Symbol rate GHz, and a list of satellite channels including 3.654 R TM, 3.654 R TPA1, 3.654 R TV MOZAMBIQUE, etc.



http://www.SatcoDX3.com/0420 Coverage Code EA500IKV



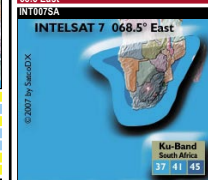
http://www.SatcoDX3.com/0420 Coverage Code EA500IKV



http://www.SatcoDX3.com/0420 Coverage Code EA500IKV



http://www.SatcoDX3.com/0600 Coverage Code INT904IK1



http://www.SatcoDX3.com/0685 Coverage Code INT0075A



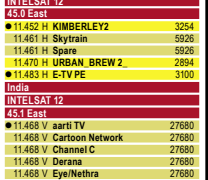
http://www.SatcoDX3.com/0600 Coverage Code INT904IK1



http://www.SatcoDX3.com/0685 Coverage Code INT010AV



http://www.SatcoDX3.com/0420 Coverage Code EA500IK1E



http://www.SatcoDX3.com/0490 Coverage Code YAM202CB



http://www.SatcoDX3.com/0560 Coverage Code BON001KU



http://www.SatcoDX3.com/0560 Coverage Code BON001KU



http://www.SatcoDX3.com/0686 Coverage Code INT007CV



http://www.SatcoDX3.com/0640 Coverage Code INT906C0

SatcoDX Global Satellite Chart 02/2009

Freq Pol Channel Name Symbol rate

Freq Pol Channel Name	Symbol rate
INT010CH	
INTELSAT 10 068.6° East	
3.765 H Premium	16775
3.765 H S2S Japanese	16775
3.765 H S2S Japanese	16775
3.745 H 625 English	16775
3.745 H 625 Japanese	16775
3.745 H Radio 01	16775
3.765 H MGM	26000
3.767 H ZEE SPORTS	26000
3.767 H ZEE SPORTS USA	65000
3.773 V Empty Name	29400
3.774 V AASTHA Int. Service	29400
3.777 V AASTHA INT.	29400
3.811 H CNBC Pakistan	33131
3.836 H Aajtak	19850
3.836 H Aajtak Tex	19850
3.836 H Delhi Aajtak	19850
3.836 H Headlines Today	19850
3.836 H INT AAJTAK	19850
3.836 H INT HEADLINES TOD	19850
3.836 H S10	19850
3.836 H S7	19850
3.836 H S8	19850
3.836 H S9	19850
3.927 H A copy of MAX Intern	26000
3.927 H A copy of SET Intern	26000
3.927 H A copy of SETMAX	26000
3.927 H Download 200	26000
3.927 H MAX International	26000
3.927 H MAX TRAI	26000
3.927 H MAX UK	26000
3.927 H MIDDLE EAST	26000
3.927 H PK	26000
3.927 H SAB INTL	26000
3.927 H SABTV	26000
3.927 H SET_Encrypted	26000
3.927 H SET_Encrypted Finger	26000
3.927 H SET_International	26000
3.927 H SETMAX	26000
3.974 H Cartoon India	19500
3.974 H Cartoon India ENCL	19500
3.974 H Cartoon India HIND	19500
3.974 H Cartoon India TAMI	19500
3.974 H Cartoon India TELE	19500
3.974 H Cartoon Pakistan	19500
3.974 H CNN India	19500
3.974 H HBO India	19500
3.974 H Popo	19500
3.974 H Real Global Broadcas	19500
3.974 H WB India	19500
3.974 H WB Pakistan	19500
4.034 H COLORS	20500
4.034 H MTV India	20500
4.034 H Nickelodeon-Nick Ind	20500
4.034 H VHD	20500
4.034 H XYZ	20500
4.064 H MTV Movies	19850
4.064 H Discovery	19850
4.064 H SIS	19850
4.064 H Al Jazeera	19850
4.064 H BMI Music	19850
4.064 H E	3333
4.064 H EWTN	19850
4.064 H BBC WS Radio	19850
4.064 H EWTN Radio	19850
4.064 H Voice of Tibet	19850
4.064 H WRN AAP1	19850
4.103 H IBN	5720
4.103 H SAW	5720
4.103 H SAMAA	3333
4.124 H AAG	19850
4.124 H AAG INTL	19850
4.124 H GEO	19850
4.124 H GEO NEWS	19850
4.124 H GEO SUPER	19850
4.124 H GEO UK	19850
4.124 H GEO USA	19850
4.126 H DAWN NEWS TV	3255
4.131 H Ujala TV	2572
4.143 H ROHI TV	3306
4.150 H DUNYA ENT.	20000
4.150 H DUNYA NEWS	6000
4.165 H ROYAL TV	3255

http://www.SatcoDX3.com/0686 Coverage Code INT010CH

C-Band Horizontal 12 17 40

Freq Pol Channel Name Symbol rate

Freq Pol Channel Name	Symbol rate
3.787 V RAS	3617
3.796 V K2	7300
3.796 V KHYBER NEWS	7300
3.808 V Rai Africa	10340
3.808 V Rai Asia	10340
3.808 V God Asia	10340
3.808 V Supreme Master TV	10340
3.836 V Multilingua	10340
3.836 V RWG	10340
3.836 V satelRadio	10340
3.836 V ABC	20600
3.836 V BCTW	20600
3.836 V DISC	20600
3.836 V ESPN	20600
3.836 V HaMII	20600
3.836 V HDTV	20600
3.836 V NaGeo	20600
3.836 V SV5	20600
3.836 V BBC1	20600
3.836 V SBC2	20600
3.836 V BBC3	20600
3.836 V CRI	20600
3.836 V DMovie	20600
3.836 V DNews	20600
3.836 V RAI R	20600
3.836 V RFI	20600
3.836 V VOA	20600
3.836 V Bloom	20600
3.836 V HST	20600
3.836 V MAZ	20600
3.836 V Rhema	20600
3.836 V Serie	20600
3.836 V SkyM	20600
3.836 V S23	20600
3.836 V S55	20600
3.836 V S56	20600
3.836 V Travi	20600
3.836 V Zebra	20600
3.836 V CII	20600
3.836 V FOX	20600
3.864 H ARY Digital UK	19850
3.864 H ARY Digital USA	19850
3.864 H ARY Middle East	19850
3.864 H ARY ONE World	19850
3.864 H HBO ARY	19850
3.864 H Nick ARY	19850
3.864 H ARY Asia One	19850
3.864 H ARY Qv	19850
3.864 H The Musik	19850
3.900 V Nimbus 2	12300
3.900 V Nimbus 2	12300
3.913 V KBS WORLD P	6510
3.913 V YTN	6510
3.924 V LA CADENA	3000
3.924 V FEET 0	3000
3.974 V AP LIndia	19850
3.974 V BBC World News	19850
3.974 V DSC India - English	19850
3.974 V DSC India - Hindi	19850
3.974 V DTL India	19850
3.974 V Encoder 4	19850
3.974 V BCBurmesse	19850
4.054 V ArirangTV W1	4400
4.059 V CTS	3530
4.064 V Times Now	4610
4.069 V Hops Channel Intl	3002
4.069 V Hops Intl At Lang1	3002
4.069 V Hops Intl Air Lang2	3002
4.069 V Humsang TV	4003
4.083 V CCTV 4	9375
4.083 V CCTV 5	9375
4.083 V CCTV 6	9375
4.156 V Express English	2930
4.173 V INDIA TV	3000
4.178 V ZOOM	4000
4.178 V Zoom	4000
4.184 V 24/7	20000
4.184 V METRO	20000
4.184 V PROFIT	20000
4.184 V TEST2	20000
4.184 V TEST1	20000
4.184 V TEST4	20000
4.189 V IMAGINE	12207
4.189 V LIFEST	12207
4.189 V LUMIER	12207
4.189 V SHWIBZ	12207

http://www.SatcoDX3.com/0720 Coverage Code INT004KI

C-Band Vertical 12 17 40

Freq Pol Channel Name Symbol rate

Freq Pol Channel Name	Symbol rate
Europe	
INTELSAT 4	
INTELSAT 4 072.0° East	
12.518 V NEWS ONE	8232
12.518 V RU MUSIC	8232
12.518 V EURO FIM	8232
12.518 V RADIO 5	8232
South Africa	
INTELSAT 4	
INTELSAT 4 072.0° East	
12.518 V NEWS ONE	8232
12.518 V RU MUSIC	8232
12.518 V EURO FIM	8232
12.518 V RADIO 5	8232

http://www.SatcoDX3.com/0720 Coverage Code INT004KI

C-Band Vertical 12 17 40

Freq Pol Channel Name Symbol rate

Freq Pol Channel Name	Symbol rate
China	
INTELSAT 4	
INTELSAT 4 075.0° East	
12.519 V Israel+	22000
12.519 V TV1000(+21)	22000
12.519 V TV1000 East(FSS)	22000
12.519 V TV1000(+21)	22000
12.519 V Viast Explorer(FSS)	22000
12.519 V Viast History(FSS)	22000
12.519 V Viast Sport	22000
12.519 V DTV-2	22000
12.519 V Radio 21	22000
12.549 V 24Techno	22000
12.549 V AXN-ScRi-Ru	22000
12.549 V Detsky	22000
12.549 V Rusaski Iluzion	22000
12.549 V Rusaski Extream	22000
12.549 V TV-21	22000
12.549 V Fashion-TV	22000
12.549 V Gameplay	22000
12.549 V iluzion+	22000
12.549 V Inter+	22000
12.549 V Fox Crime	22000
12.610 V Jetix Russia	22000
12.610 V Gamagay	22000
12.610 V Prdengi	22000
12.610 V TPO	22000
12.610 V CTC+7	22000
12.610 V HOME+TR	22000
12.610 V HTB	22000
12.610 V HIT-3	22000
12.610 V LIVE TV	22000
12.610 V Discovery Channel	22000
12.610 V ESP Russian	22000
12.610 V ESP Russian	22000
12.610 V Mat 1 Ditya	22000
12.610 V NAT GEO	22000
12.610 V X2	22000
12.610 V LIVE TV	22000
12.610 V TVclub	22000
12.610 V POHO+HO	22000
12.610 V New Life Radio	22000
12.695 V Endemol	10000
12.695 V MCOU	10000
12.695 V Mir Service	10000
12.695 V MIR-TV	10000
12.695 V MIR-TV+3	10000
12.695 V Videolink	10000
12.695 V MIRA Radio Service	10000
12.695 V Radio MIR	10000
12.740 V Tajik TV	7247
12.740 V TV Bakhoriston	7247
12.740 V TV Safina	7247
12.740 V Tajik TV	7247
12.740 V TV Bakhoriston	7247
12.740 V TV Safina	7247

http://www.SatcoDX3.com/0750 Coverage Code ABS001NB

C-Band Vertical 12 17 40

Freq Pol Channel Name Symbol rate

Freq Pol Channel Name	Symbol rate
12.406 V 114 JAT Station	30000
12.406 V 115 Bossa Nova	30000
12.406 V 116 Classical	30000
12.406 V 117 Piano Easy Lite	30000
12.406 V 118 Crystal & Piano M	30000
12.406 V 119 Soft Music	30000
12.406 V 120 Season Music	30000
12.406 V 121 Old Deck	30000
12.406 V 122 Chinese Best Sel	30000
12.406 V 123 Chinese Soft Song	30000
12.406 V 124 Chinese Classica	30000
12.406 V 125 Children Music	30000
12.406 V 126 Easy Listening	30000
12.406 V 127 Birthday Songs	30000
12.406 V 128 Wedding And Good	30000
12.406 V 129 Sweet Love Chann	30000
12.406 V 130 Pop Music Pop	30000
12.406 V 131 3375	30000
12.406 V 132 Pop	30000
12.406 V 134 Audrey	30000
12.406 V 135 KF	30000
12.406 V 138 Crystal & Piano M	30000
12.406 V 139 Soft Music	30000
12.406 V 139 KG	30000
12.406 V 140 Asia Radio	30000
12.434 H DVS	19800
12.434 H ZHONGGUANG	10000
12.462 V Boss Golf	22425
12.462 V CTS 央视	22425
12.462 V CCTV 央视	22425
12.462 V FTV 卫视	22425
12.462 V PTBS	22425
12.462 V TVBS 卫视	22425
12.462 V PR-CH 公共频道	22425
12.462 V TVTibet	22425
12.491 V DesiresTV	22425
12.491 V DVS 迪士尼	22425
12.491 V GAPT.V	22425
12.491 V STV 三立國際	22425
12.491 V TVBS-G	22425
12.491 V TVBS-N	22425
12.491 V UNTV	22425
12.491 V FTV News	22425
12.530 V ET Variety 東森綜合台	30000
12.530 V ET World 東森世界台	30000
12.530 V ETV Asia 東森亞洲衛視	30000
12.530 V ETV Drama 東森劇集台	30000
12.530 V ETV News 東森新聞台	30000
12.530 V ETV Service 6	30000
12.530 V STV 衛視台	30000
12.530 V YG 亞洲衛視	30000
12.530 V ET ASIA NEWS 東亞亞洲新	30000
4.068 H BKT 1	2532
4.068 H BOISHAKH TV	4300
4.068 H RTV DVB	4300
4.106 H MNC INTERNATIONAL	3125
4.147 H IslamicTV	3600
4.174 H rtv DVB	7400
4.174 H RTV DVB	7400

http://www.SatcoDX3.com/0765 Coverage Code TELO10G

C-Band Global 12 17 40

Freq Pol Channel Name Symbol rate

Freq Pol Channel Name	Symbol rate
3.780 V REBLAKA	26022
3.780 V SEFA	26022
3.780 V SOHO FM	26022
3.780 V THES	26022
3.780 V ETVC B	4600
3.840 H Digital TV 2	27500
3.840 H ART TV	27500
3.840 H BABY TV	27500
3.840 H BCB WORLD	27500
3.840 H EURO NEWS	27500
3.840 H Fashion TV	27500
3.840 H KidsCo	27500
3.840 H MCM TOP	27500
3.840 H MTV Base	27500
3.840 H LUXE-TV HD	27500
3.840 H BFTV	27500
3.840 H FEED	27500
3.840 H HDTV	27500
3.840 H LIVE MUSIC	27500
3.840 H My TV	27500
3.840 H THE SOUNDTRACK CH	27500
3.840 H AngelPalauFM	6312
4.031 V TVM	6312
4.031 V CHANNEL-1	3215
4.057 H Service 2	3215
4.071 H BBC Arabic	13021
4.071 H BBC Asia Feed 1	13021
4.071 H BBC Asia Feed 2	13021
4.071 H BBC Asia Feed 4	13021
4.071 H BBC Asia Feed 5	13021
4.071 H BBC Bengali	13021
4.071 H BBC Burmese	13021
4.071 H BNC One	13021

Main table containing satellite data with columns for Freq Pol Channel Name, Symbol rate, and GHz. Includes various regional and global satellite services.

Table listing satellite channels for ASIASAT 2, including frequencies, polarizations, and channel names.

Table listing satellite channels for ASIASAT 35, including frequencies, polarizations, and channel names.

Table listing satellite channels for ASIASAT 35, including frequencies, polarizations, and channel names.

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Table listing satellite channels for ASIASAT 35, including frequencies, polarizations, and channel names.

Table listing satellite channels for ASIASAT 35, including frequencies, polarizations, and channel names.

SatcoDX Global Satellite Chart 02/2009

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
4.067 V Lnh Rzh8	5990	3.840 H CCTV-11	27500	4.375 V zht7 Stereo	5990	11558 R Skywave Info	24440	12.628 V Cinema R	21096
4.067 V Lnh Rzh9	5990	3.840 H CCTV-12	27500	4.192 V Hebei TV	6000	11558 R Sport Channel	24440	12.628 V Kinj Chart	21096
4.067 V SW1 stereo	5990	3.840 H CCTV-2	27500	4.192 V Hebei Radio2	6000	11558 R Goal 2	24440	12.628 V Korea Pop	21096
4.067 V SW2 stereo	5990	3.840 H CCTV-7	27500	4.192 V Hebei Radio3	6000	11558 R Sakura Channel	24440	12.628 V Korean Songs	21096
4.067 V ZH1 stereo	5990	3.840 H CCTV-MUSIC	27500	4.192 V Hebei Radio4	6000	11727 R Happy Together	24437	12.628 V Latin	21096
4.067 V ZH2 stereo	5990	3.840 H CCTV-Stream date	27500	4.192 V HebeiRadio5	6000	11727 R Sky	24437	12.628 V MuzoTalk	21096
4.067 V ZH3 stereo	5990	3.846 V SHANXI SAT TV	5950	4.192 V HebeiRadio5	6000	11727 R ANIMAX	24437	12.628 V Okinawa Music	21096
4.067 V ZH7 stereo	5990	3.846 V SHANXI TV	5950	3.846 V SHANXI TV	5950	11727 R AXN	24437	12.628 V Oldies	21096
4.067 V zht2 Stereo	5990	3.854 V Henan TV	4420	3.854 V Henan TV	4420	11727 R BBC	24437	12.628 V R&B & Soul	21096
C-Band: CHINAPAC 2		3.854 V HN Radio5	4420	3.854 V HN Radio5	4420	11727 R Bloomberg	24437	12.628 V Rock/Pop Artists 5	21096
112.9 East		3.854 V HN Radio2	4420	3.854 V HN Radio2	4420	11727 R CCTV-4	24437	12.628 V Rock/Pop Artists 6	21096
3.765 H TVRI JKT	5555	3.854 V HN Radio4	4420	3.854 V HN Radio4	4420	11727 R CCTV-9	24437	12.628 V Rock/Pop Artists 7	21096
3.774 H rct1	6520	3.854 V HN Radio5	4420	3.854 V HN Radio5	4420	11727 R ETV Asia	24437	12.628 V Rock/Pop Artists 8	21096
3.774 H rct2	6520	3.861 V Ningxia Radio	4800	3.861 V Ningxia Radio	4800	11727 R Playboy	24437	12.628 V Rock/Pop Artists 9	21096
3.774 H Trijaya Network	6520	3.871 V NLTV	9080	3.871 V NLTV	9080	C-Band: ASIATASAT 4		12.628 V Rock/Pop Classics 7	21096
3.925 H Service 1	4208	3.871 V SKTVS	9080	3.871 V SKTVS	9080	122.1 East		12.628 V Rock/Pop Classics 8	21096
3.934 H PT SCTV IDJKT	6620	3.871 V SK-GeoBC	9080	3.871 V SK-GeoBC	9080	3.827 H Guangxi TV	5720	12.628 V Rock/Pop Classics 9	21096
3.935 V rct1	3000	3.871 V SK-JingJi-BC	9080	3.871 V SK-JingJi-BC	9080	3.845 H Guangdong	17800	12.628 V Rock/Pop Compilatio	21096
3.935 V rct2	3000	3.871 V SK-XiJou-BC	9080	3.871 V SK-XiJou-BC	9080	3.853 H HLJ	6800	12.628 V Rock/Pop Gold Album	21096
3.936 V Trijaya Network	3000	3.871 V SK-XinYu-BC	9080	3.871 V SK-XinYu-BC	9080	3.909 H JMR	8934	12.628 V Rock/Pop Hit Chart	21096
4.000 H PT SCTV IDJKT	6620	3.871 V SK-NC/IGS-BC	9080	3.871 V SK-NC/IGS-BC	9080	3.922 H Yunnan	7250	12.628 V Rock/Pop New Album	21096
4.000 H rct1	6620	3.871 V SK-SHaoB-BC	9080	3.871 V SK-SHaoB-BC	9080	3.933 H Travel TV	6590	12.628 V Rock/Pop New Single	21096
4.000 H rct2	6620	3.871 V SK-XiQu-BC	9080	3.871 V SK-XiQu-BC	9080	3.989 H KZang	5600	12.628 V Rock/Pop Single Hit	21096
4.000 H Trijaya Network	6620	3.871 V SK-YinYu-BC	9080	3.871 V SK-YinYu-BC	9080	4.000 H Xiang	27500	12.628 V West Japan Best Hits	21096
4.053 V ANTEVE	6510	3.880 H CCTV-3	27500	3.880 H CCTV-3	27500	4.120 H Xinjiang	27500	12.643 H BBC World	21096
4.053 H ASIALINK	5640	3.880 H CCTV-6	27500	3.880 H CCTV-6	27500	4.160 H CCTV	27500	12.643 H G-Sport News	21096
4.053 V ANTEVE	6510	3.880 H CCTV-8	27500	3.880 H CCTV-8	27500	UCSAT 1		12.643 H Media Edge	21096
4.074 V PT SCTV IDJKT	6500	3.880 H CCTV-9	27500	3.880 H CCTV-9	27500	128.0 East		12.643 H Rakuten Shopping Cha	21096
4.074 V rct1	6500	3.880 H CCTV-9	27500	3.880 H CCTV-9	27500	12.268 V Green Channel	21096	12.643 H Speed Channel 1	21096
4.074 V rct2	6500	3.880 H CCTV-9	27500	3.880 H CCTV-9	27500	12.268 V Kit Maxx Club	21096	12.643 H Better Life Channel	21096
4.074 V Trijaya Network	6500	3.880 H CCTV-9	27500	3.880 H CCTV-9	27500	12.268 V The University of th	21096	12.643 H Home Movie Plus 2	21096
4.080 H CH10	28125	3.880 H SDETV	27500	3.880 H SDETV	27500	12.268 V TVE International	21096	12.643 H Power Plus	21096
4.080 H CH11	28125	3.882 V JXTV1	4420	3.882 V JXTV1	4420	12.268 V Yozeim TV Net	21096	12.658 H Power Plus PPV	21096
4.080 H CH3	28125	3.882 V JXTV2	4420	3.882 V JXTV2	4420	12.268 V The University of th	21096	12.658 H Power Plus PPV	21096
4.080 H CH6	28125	3.882 V JXTV3	4420	3.882 V JXTV3	4420	12.345 V J Sky Sport 1	21096	12.658 H Power Plus PPV	21096
4.080 H CH7	28125	3.882 V JXTV4	4420	3.882 V JXTV4	4420	12.345 V J Sky Sport 2	21096	12.658 H Power Plus PPV	21096
4.080 H Global TV	28125	3.890 H SDETV	27500	3.890 H SDETV	27500	12.345 V J Sky Sport 3	21096	12.658 H Power Plus PPV	21096
4.080 H Global TV2	28125	3.892 V JXTV1	4420	3.892 V JXTV1	4420	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.080 H MainTV	28125	3.892 V JXTV2	4420	3.892 V JXTV2	4420	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.080 H Spacecom	28125	3.892 V JXTV3	4420	3.892 V JXTV3	4420	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.080 H 68H	28125	3.892 V JXTV4	4420	3.892 V JXTV4	4420	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.080 H Antero	28125	3.892 V JXTV5	4420	3.892 V JXTV5	4420	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.080 H BBC	28125	3.892 V JXTV6	4420	3.892 V JXTV6	4420	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.080 H Delta FM	28125	3.892 V JXTV7	4420	3.892 V JXTV7	4420	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.080 H Delta2 FM	28125	3.892 V JXTV8	4420	3.892 V JXTV8	4420	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.080 H POP FM	28125	3.892 V JXTV9	4420	3.892 V JXTV9	4420	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.080 H Pro2 FM	28125	3.892 V JXTV10	4420	3.892 V JXTV10	4420	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.185 V TPI TV Makin Asyik	6700	3.900 V Audio1	6670	3.900 V Audio1	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.185 V R Dangdut TPI	6700	3.900 V Audio2	6670	3.900 V Audio2	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
3.926 V rct1	4208	3.900 V Audio3	6670	3.900 V Audio3	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
3.926 V rct2	4208	3.900 V Audio4	6670	3.900 V Audio4	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
3.926 V Service 1	4208	3.900 V Audio5	6670	3.900 V Audio5	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
3.926 V Trijaya Network	4208	3.900 V Audio6	6670	3.900 V Audio6	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
3.932 H PT SCTV IDJKT	6620	3.900 V Audio7	6670	3.900 V Audio7	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
4.054 H ASIALINK	5632	3.900 V Audio8	6670	3.900 V Audio8	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
3.936 V KCTV	3000	3.900 V Audio9	6670	3.900 V Audio9	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
KORASAT 5		3.900 V Audio10	6670	3.900 V Audio10	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
116.1 East		3.900 V Audio11	6670	3.900 V Audio11	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.458 H DIGITAL SNG	3072	3.900 V Audio12	6670	3.900 V Audio12	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.578 H EEC SAT HUB1	5200	3.900 V Audio13	6670	3.900 V Audio13	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.641 H FGV SAT	3700	3.900 V Audio14	6670	3.900 V Audio14	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.665 H MBC TV-LINK	3699	3.900 V Audio15	6670	3.900 V Audio15	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H FSTV	28187	3.900 V Audio16	6670	3.900 V Audio16	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SANG S TV	28187	3.900 V Audio17	6670	3.900 V Audio17	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 0	28187	3.900 V Audio18	6670	3.900 V Audio18	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 1	28187	3.900 V Audio19	6670	3.900 V Audio19	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 2	28187	3.900 V Audio20	6670	3.900 V Audio20	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 3	28187	3.900 V Audio21	6670	3.900 V Audio21	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 4	28187	3.900 V Audio22	6670	3.900 V Audio22	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 5	28187	3.900 V Audio23	6670	3.900 V Audio23	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 6	28187	3.900 V Audio24	6670	3.900 V Audio24	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 7	28187	3.900 V Audio25	6670	3.900 V Audio25	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 8	28187	3.900 V Audio26	6670	3.900 V Audio26	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 9	28187	3.900 V Audio27	6670	3.900 V Audio27	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 10	28187	3.900 V Audio28	6670	3.900 V Audio28	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 11	28187	3.900 V Audio29	6670	3.900 V Audio29	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 12	28187	3.900 V Audio30	6670	3.900 V Audio30	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 13	28187	3.900 V Audio31	6670	3.900 V Audio31	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 14	28187	3.900 V Audio32	6670	3.900 V Audio32	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 15	28187	3.900 V Audio33	6670	3.900 V Audio33	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 16	28187	3.900 V Audio34	6670	3.900 V Audio34	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 17	28187	3.900 V Audio35	6670	3.900 V Audio35	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 18	28187	3.900 V Audio36	6670	3.900 V Audio36	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 19	28187	3.900 V Audio37	6670	3.900 V Audio37	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 20	28187	3.900 V Audio38	6670	3.900 V Audio38	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 21	28187	3.900 V Audio39	6670	3.900 V Audio39	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 22	28187	3.900 V Audio40	6670	3.900 V Audio40	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731 H SkyCast 23	28187	3.900 V Audio41	6670	3.900 V Audio41	6670	12.345 V Perfect Choice	21096	12.658 H Power Plus PPV	21096
12.731									

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
12.355 V 04-FASHION TV	43000	12.643 H JS3	21096	12.421 H CHV	22500	12.733 V DMC	22500	12.728 V ABC FM NT	24450
12.355 V 05-SUN TV	43000	12.643 H KSD	21096	12.421 H DSPT	22500	12.733 V FGA	22500	12.728 V ABC FM Q	24450
12.355 V 06-MASTV	43000	12.643 H NBC	21096	12.421 H DTV	22500	12.733 V ERT	22500	12.728 V ABC FM SA	24450
12.355 V 07-ATV	43000	12.643 H SHP	21096	12.421 H KAN7	22500	12.733 V Kurdist	22500	12.728 V ABC FM SE	24450
12.355 V 08-TV8	43000	12.643 H VSC	21096	12.421 H MAZZ	22500	12.733 V Oman TV	22500	12.728 V ABC JJJ	24450
12.355 V 10-TV8 XINGHE	43000	12.643 H FOX Japan	21096	12.421 H M20	22500	12.733 V Russia Today	22500	12.728 V ABC KQ	24450
12.355 V 11-TV8S	43000	12.305 V Feed	5275	12.421 H CTV	22500	12.733 V TGN	22500	12.728 V ABC RN Q	24450
12.355 V 12TVBS	43000	12.597 V Radio	21096	12.421 H PACE	22500	12.733 V TVRI	22500	12.728 V ABC RR NT	24450
12.355 V 12TVBSN	43000	12.628 V Test Card	21096	12.519 V PolSat India	22500	12.733 V Suryan FM	22500	12.728 V ABC RR SA	24450
12.355 V 14UBNNEWS	43000	12.718 V Dream FM 107	21096	12.519 V Star Gold	22500	12.733 V ABC RQ	24450	12.728 V ABC RR TQ	24450
12.355 V 15-HALLMARK CHAN	43000	12.718 V The Mabuhay Channel 2	21096	12.519 V Star One	22500	12.733 V KISS FM	22500	12.728 V ABC RR SA	24450
12.355 V 16-ZHUJIANG	43000	12.718 V The Mabuhay Channel 3	21096	12.519 V Star Plus	22500	12.733 V Net105	22500	12.728 V ABC RR NT	24450
12.355 V 17-CCTVNEWS	43000	12.688 V Da Ai	2900	12.519 V Zee TV	22500	12.733 V UCR Radio	22500	12.728 V ABC RR NT	24450
12.355 V 18-OC	43000	12.688 V DAAITV	3400	12.519 V Al Hayat	22500	12.545 V NAB TV	22500	12.728 V ABC RR NT	24450
12.355 V 19-CTV	43000	12.688 V CTS IQ Channel	2000	12.519 V Sun	22500	12.545 V nba3_Thai	22500	12.728 V ABC RR NT	24450
12.355 V 20-MTV	43000	12.688 V CTS 1Q	1700	12.519 V SMTV	22500	12.545 V nba3_Hot	22500	12.728 V ABC RR NT	24450
12.355 V 21-CCTVNEWS	43000	12.688 V CTS 2Q	1700	12.546 V IAC	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
12.355 V 22-LIVE TV	43000	12.688 V CTS 3Q	1700	12.546 V nba3_Thai	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
12.355 V 23-CTV	43000	12.688 V CTS 4Q	1700	12.546 V ADHOC	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
12.355 V 24-CELESTIAL TV	43000	12.688 V CTS 5Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
12.355 V 33-Channel TVB3 3001	43000	12.688 V CTS 6Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
C-Band: 153.734.3		12.688 V CTS 7Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
158.1 East		12.688 V CTS 8Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 13 亞洲本港台	30000	12.688 V CTS 9Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 15 PTS DIMCO 公視	30000	12.688 V CTS 10Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 16 MCCA 電影台	30000	12.688 V CTS 11Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 17 ET TV-N 東森新聞台	30000	12.688 V CTS 12Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 18 ET TV-Asia 東森亞洲台	30000	12.688 V CTS 13Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 19 TVT WORLD 台灣國際台	30000	12.688 V CTS 14Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 20 JET 日本台	30000	12.688 V CTS 15Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 21 ET TVyo 東森幼幼台	30000	12.688 V CTS 16Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 22 Test1	30000	12.688 V CTS 17Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 23 Test2	30000	12.688 V CTS 18Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 24 Test3	30000	12.688 V CTS 19Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 25 Test4	30000	12.688 V CTS 20Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.599 V 14 T ZUCHI 慈濟大愛	30000	12.688 V CTS 21Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 01 AT TV 華人商業電視台	30000	12.688 V CTS 22Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 02 CTV 中視	30000	12.688 V CTS 23Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 03 CTV 華視	30000	12.688 V CTS 24Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 04 FTV 民視	30000	12.688 V CTS 25Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 05 FTV 民間新聞	30000	12.688 V CTS 26Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 06 Uplink 1	30000	12.688 V CTS 27Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 07 Uplink 2	30000	12.688 V CTS 28Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 08 Uplink 3	30000	12.688 V CTS 29Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 09 SETI 亞洲衛星	30000	12.688 V CTS 30Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 10 SEI 三立衛星	30000	12.688 V CTS 31Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 11 CTV 中天	30000	12.688 V CTS 32Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.600 V 12 HollywoodMovie 好萊塢	30000	12.688 V CTS 33Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
4.124 V BBC Arabic	3255	12.688 V CTS 34Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
4.124 V BBC English (E Asi)	3255	12.688 V CTS 35Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
4.124 V BBC English (E Asi)	3255	12.688 V CTS 36Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
4.124 V BBC English Aus NZ	3255	12.688 V CTS 37Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
4.124 V BBC English News	3255	12.688 V CTS 38Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
4.124 V BBC Mandarin	3255	12.688 V CTS 39Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
4.124 V BBC Pac Feed 1	3255	12.688 V CTS 40Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
4.124 V BBC Pac Feed 2	3255	12.688 V CTS 41Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
4.124 V BBC Pac Feed 3	3255	12.688 V CTS 42Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
4.124 V BBC Pac Feed 4	3255	12.688 V CTS 43Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
EXPRESS AM-3 140.0° East		12.688 V CTS 44Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
150.0 East		12.688 V CTS 45Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
EXPAM3K		12.688 V CTS 46Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
10.981 V FNS	29812	12.688 V CTS 47Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
10.981 V MuZTV+Love	29812	12.688 V CTS 48Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
11.090 V FNS	4996	12.688 V CTS 49Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
11.090 V MuZTV+Love	4996	12.688 V CTS 50Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
11.104 V Yakuta	5789	12.688 V CTS 51Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
10.981 V FNS	29800	12.688 V CTS 52Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
10.981 V MuZTV+Love	29800	12.688 V CTS 53Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
11.104 V Yakuta	5789	12.688 V CTS 54Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
C-Band: EXPRESS AM3		12.688 V CTS 55Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
140.1 East		12.688 V CTS 56Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
EXPRESS AM-3 140.0° East		12.688 V CTS 57Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R Magadan	4285	12.688 V CTS 58Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R Duzh-GTRK CAXA	4340	12.688 V CTS 59Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R AZIMUTV	4340	12.688 V CTS 60Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R Double+RDR1	33470	12.688 V CTS 61Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R Double+RDR2	33470	12.688 V CTS 62Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R Orbita-IR+Mayak	33470	12.688 V CTS 63Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R Orbita-ZR+Yuzest	33470	12.688 V CTS 64Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R Sport	33470	12.688 V CTS 65Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R Kultura-1	33470	12.688 V CTS 66Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R NTV7	33470	12.688 V CTS 67Q	1700	12.546 V NHK World TV	22500	12.546 V nba3_Thailand	22500	12.728 V ABC RR NT	24450
3.76 R Radio Mayak	33470	12.6							

SatcoDX Global Satellite Chart 02/2009

Freq Pol Channel Name Symbol rate
GHz

C-Band: INTELSAT 8
166.0° East

INTELSAT 8 166.0° East

C-Band
29 35 41

<http://www.SatcoDX.com/1660>
Coverage Code: INT005CH

Freq Pol Channel Name Symbol rate
GHz

C-Band: KANAL 5
166.0° East

INTELSAT 8 166.0° East

C-Band
29 35 41

<http://www.SatcoDX.com/1660>
Coverage Code: INT005CH

Freq Pol Channel Name Symbol rate
GHz

C-Band: KANAL 5
166.0° East

INTELSAT 8 166.0° East

C-Band
29 35 41

<http://www.SatcoDX.com/1660>
Coverage Code: INT005CH

Freq Pol Channel Name Symbol rate
GHz

C-Band: KANAL 5
166.0° East

INTELSAT 8 166.0° East

C-Band
29 35 41

<http://www.SatcoDX.com/1660>
Coverage Code: INT005CH

Freq Pol Channel Name Symbol rate
GHz

C-Band: KANAL 5
166.0° East

INTELSAT 8 166.0° East

C-Band
29 35 41

<http://www.SatcoDX.com/1660>
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Freq Pol Channel Name Symbol rate
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C-Band: KANAL 5
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Freq Pol Channel Name Symbol rate
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C-Band: KANAL 5
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C-Band: KANAL 5
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29 35 41

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Coverage Code: INT005CH

Freq Pol Channel Name Symbol rate
GHz

C-Band: KANAL 5
166.0° East

INTELSAT 8 166.0° East

C-Band
29 35 41

<http://www.SatcoDX.com/1660>
Coverage Code: INT005CH

Freq Pol Channel Name	Symbol rate
12.526 H BBC World News	28800
12.526 H Bloomberg	28800
12.526 H Cartoon Network	28800
12.526 H CNN	28800
12.526 H ERT World	28800
12.526 H Eurosport	28800
12.526 H Fashion TV	28800
12.526 H PGM 104	28800
12.526 H PGM114	28800
12.526 H MTV	28800
12.526 H Sky Racing	28800
12.526 H RTL 9	28800
12.526 H Weatherzone	28800
12.526 H Selecom	28800
12.526 H Antenna Radio	28800
12.526 H ERA Sport Radio	28800
12.526 H Voice of Greece	28800
12.526 H EuroPop	28800
12.575 H ANC	13845
12.575 H CINEA1	13845
12.575 H CINEA2	13845
12.575 H PPP	13845
12.575 H TCS	13845
12.575 H DA1	13845
12.575 H ISHARTV	13845
12.575 H DWRR	13845
12.575 H DZMM	13845
12.575 H ART AUSTRALIA	28800
12.575 H ART MOVIES	28800
12.575 H ART TV	28800
12.575 H ABC AUSTRALIA	28800
12.575 H LBC	28800
12.575 H ABC AMERICA	28800
12.575 H Leonardo World	28800
12.575 H NBN	28800
12.575 H MTV	28800
12.575 H RAI TSC	28800
12.575 H RAI PAL Australia	28800
12.575 H RAI PAL South Amer	28800
12.575 H Orient Radio	28800
12.575 H Radio 2400	28800
12.575 H Eurodis AI Dtkir	28800
12.575 H Radio Music	28800
12.575 H Radio Voice of Chari	28800
12.575 H Rai Radio Australia	28800
12.575 H Rai Radio Service	28800
12.575 H Rai Ani 60	28800
12.575 H OCTV 4	28125
12.575 H TBSN	28125
12.575 H Chong Qing TV	28125
12.575 H Dragon TV	28125
12.575 H Hunan	28125
12.575 H Phoenix Chinese	28125
12.575 H Phoenix InfoNews	28125
12.575 H TVB K1	28125
12.575 H TVB2	28125
12.575 H TVB3	28125
12.575 H TVB8	28125
12.575 H TVB	28125
12.575 H TVBS - Asia	28125
12.575 H Xing He	28125
12.575 H H PLUS	28125
12.575 H BHT	28125
12.575 H BKT TV	28125
12.575 H BN TV	28125
12.575 H BTV	28125
12.575 H NHK	28125
12.575 H PINK EXTRA	28125
12.575 H PINK PLUS	28125
12.575 H BETHEL TV	28125
12.575 H ERTV TV	28125
12.575 H KTV	28125
12.575 H Medley Arabia	28125
12.575 H ORANGE TV	28125
12.575 H SVRIA TV	28125
12.575 H CRRADIO	28125
12.575 H ENT V	28125
12.575 H ERMEDIA T	28125
12.575 H Main General Program	28125
12.575 H Voice of Youth	28125

Freq Pol Channel Name	Symbol rate
11.136 V RFD Feeds	23150
11.136 V RFD Nouvelle	23150
11.136 V RFD Tempo Polyse	23150
11.136 V Tele Nouvelle Caledo	23150
11.136 V Tele Polyse	23150
11.136 V Cartoon Network	30000
11.136 V Cinestar 2	30000
11.136 V CNN International	30000
11.136 V M6	30000
11.136 V NFR Tempo Tahiti tes	30000
11.136 V RTL 9	30000
11.136 V TCM	30000
11.136 V Teva	30000
11.136 V TRT	30000
11.136 V TFS	30000
11.136 V TV Polyse tests	30000
11.136 V RFD Tempo Polyse	30000
11.136 V Tele Polyse	30000
11.136 V SkyRock	30000
11.136 V Radio Polyse	30000
11.136 V SBN - Scionor Bus	21200
11.136 V Thai TV Global Net	20000
10.975 H DA1	30000
10.975 H Canal+ Jaune	30000
10.975 H Cinefax	30000
10.975 H GEM 1	30000
10.975 H Eurosport France	30000
10.975 H Mezzo	30000
10.975 H TF 6	30000
11.174 H France O	23150
11.174 H Malakof	23150
11.174 H RFD Feeds	23150
11.174 H RFD Tempo Nouvelle	23150
11.174 H Tele Polyse	23150
11.174 H Tele Nouvelle Caledo	23150
11.174 H Tele Polyse	23150
11.174 H Tele Wallis et Futun	23150
11.174 H France O	23150
11.174 H Le Mouvi Inter	23150
11.174 H Radio Nouvelle Caled	23150
11.174 H Radio Polyse	23150
11.174 H Canal+ Caledonie	30000
11.174 H Cartoon Network	30000
11.174 H Cine Cinemas	30000
11.174 H Disney Radio	30000
11.174 H Eurodis	30000
11.174 H LCI	30000
11.174 H Equipe TV	30000
11.174 H M6	30000
11.174 H Motors	30000
11.174 H National Geographic	30000
11.174 H Planete	30000
11.174 H RTL 9	30000
11.174 H RPT	30000
11.174 H France O	30000
11.174 H TV5	30000
11.174 H Voyage	30000
11.174 H XFL	30000
11.174 H France O	30000
11.174 H Europe 1	30000
12.548 H BBC World	28800
12.548 H Discovery Channel (N	28800
12.548 H H PLUS	28800
12.548 H MUTV	28800
12.548 H Nickelodeon (New Zea	28800
12.548 H Cable Sports Netw	28800
12.548 H H Plus card	28800
12.548 H FTV 1	28800
12.548 H H Plus	28800
12.548 H Zee TV (Asia)	28800
12.548 H Zee TV (Australia)	28800
12.548 H Zee TV (India)	28800
12.548 H Zee TV (USA)	28800
12.548 H Zee TV (UK)	28800
12.548 H Zee TV (Canada)	28800
12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
12.548 H Zee TV (Europe)	28800
12.548 H Zee TV (Asia)	28800
12.548 H Zee TV (Australia)	28800
12.548 H Zee TV (India)	28800
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12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
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12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
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12.548 H Zee TV (India)	28800
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12.548 H Zee TV (UK)	28800
12.548 H Zee TV (Canada)	28800
12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
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12.548 H Zee TV (USA)	28800
12.548 H Zee TV (UK)	28800
12.548 H Zee TV (Canada)	28800
12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
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12.548 H Zee TV (UK)	28800
12.548 H Zee TV (Canada)	28800
12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
12.548 H Zee TV (Europe)	28800
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12.548 H Zee TV (UK)	28800
12.548 H Zee TV (Canada)	28800
12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
12.548 H Zee TV (Europe)	28800
12.548 H Zee TV (Asia)	28800
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12.548 H Zee TV (Canada)	28800
12.548 H Zee TV (Latin Am)	28800
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12.548 H Zee TV (Canada)	28800
12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
12.548 H Zee TV (Europe)	28800
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12.548 H Zee TV (India)	28800
12.548 H Zee TV (USA)	28800
12.548 H Zee TV (UK)	28800
12.548 H Zee TV (Canada)	28800
12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
12.548 H Zee TV (Europe)	28800
12.548 H Zee TV (Asia)	28800
12.548 H Zee TV (Australia)	28800
12.548 H Zee TV (India)	28800
12.548 H Zee TV (USA)	28800
12.548 H Zee TV (UK)	28800
12.548 H Zee TV (Canada)	28800
12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
12.548 H Zee TV (Europe)	28800
12.548 H Zee TV (Asia)	28800
12.548 H Zee TV (Australia)	28800
12.548 H Zee TV (India)	28800
12.548 H Zee TV (USA)	28800
12.548 H Zee TV (UK)	28800
12.548 H Zee TV (Canada)	28800
12.548 H Zee TV (Latin Am)	28800
12.548 H Zee TV (Africa)	28800
12.548 H Zee TV (Middle East)	28800
12.548 H Zee TV (Europe)	28800
12.548 H Zee TV (Asia)	28800
12.548 H Zee TV (Australia)	28800
12.548 H Zee TV (India)	28800

SatCoDX Global Satellite Chart 02/2009

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	Freq Pol Channel Name	Symbol rate
12384 L Noggin	20000	12384 L UVE1	9666	12384 L UVE2	9666	12384 L ARDY	20000	12384 L BUBY	20000	12384 L WHFT	20000	12384 L WWHO	26000
12384 L SunShine Network	20000	12384 L UVE3	9666	12384 L UVE4	9666	12384 L BAUM	20000	12384 L BWHX	20000	12384 L WKBX	20000	12384 L WCCB	26000
12384 L The Weather Channel	20000	12384 L UVE5	9666	12384 L UVE6	9666	12384 L CACTV	20000	12384 L COLRS	20000	12384 L WLED	20000	12384 L WMEG	26000
12384 L Destinations Audio	20000	12384 L UVE7	9666	12384 L UVE8	9666	12384 L CDTV	20000	12384 L DOC	20000	12384 L WLVI	20000	12384 L WPHX	26000
12384 L Latino Pop	20000	12384 L UVE9	9666	12384 L UVE10	9666	12384 L CDTV2	20000	12384 L FRESH	20000	12384 L WWSB	20000	12384 L WWSB	26000
12384 L Muzak	20000	12384 L UVE11	9666	12384 L UVE12	9666	12384 L CDTV3	20000	12384 L REAL	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Muzak 2	20000	12384 L UVE13	9666	12384 L UVE14	9666	12384 L CDTV4	20000	12384 L TEST1	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Viva Marachi	20000	12384 L UVE15	9666	12384 L UVE16	9666	12384 L CDTV5	20000	12384 L TEST2	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Animal Planet	20000	12384 L UVE17	9666	12384 L UVE18	9666	12384 L CDTV6	20000	12384 L TEST3	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L CNBC US	20000	12384 L UVE19	9666	12384 L UVE20	9666	12384 L CDTV7	20000	12384 L UMTV	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Comedy Central	20000	12384 L UVE21	9666	12384 L UVE22	9666	12384 L CDTV8	20000	12384 L VERIA	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Fox Sports Northwest	20000	12384 L UVE23	9666	12384 L UVE24	9666	12384 L CDTV9	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L HBO West	20000	12384 L UVE25	9666	12384 L UVE26	9666	12384 L CDTV10	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Lifetime	20000	12384 L UVE27	9666	12384 L UVE28	9666	12384 L CDTV11	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L MSNBC	20000	12384 L UVE29	9666	12384 L UVE30	9666	12384 L CDTV12	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L TBS Superstation (20000	12384 L UVE31	9666	12384 L UVE32	9666	12384 L CDTV13	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L TV Land	20000	12384 L UVE33	9666	12384 L UVE34	9666	12384 L CDTV14	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L VH1 US	20000	12384 L UVE35	9666	12384 L UVE36	9666	12384 L CDTV15	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L WGN Superstation	20000	12384 L UVE37	9666	12384 L UVE38	9666	12384 L CDTV16	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Contemporary Christi	20000	12384 L UVE39	9666	12384 L UVE40	9666	12384 L CDTV17	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Contemporary Instrum	20000	12384 L UVE41	9666	12384 L UVE42	9666	12384 L CDTV18	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Contemporary Jazz Ft	20000	12384 L UVE43	9666	12384 L UVE44	9666	12384 L CDTV19	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Easy Instrumentals	20000	12384 L UVE45	9666	12384 L UVE46	9666	12384 L CDTV20	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12384 L Jazz Traditions	20000	12384 L UVE47	9666	12384 L UVE48	9666	12384 L CDTV21	20000	12384 L WWSW	20000	12384 L WWSW	20000	12384 L WYFF	26000
12414 L Black Starz East	20000	12414 L UVE49	9666	12414 L UVE50	9666	12414 L CDTV22	20000	12414 L WWSW	20000	12414 L WWSW	20000	12414 L WYFF	26000
12414 L Encore East	20000	12414 L UVE51	9666	12414 L UVE52	9666	12414 L CDTV23	20000	12414 L WWSW	20000	12414 L WWSW	20000	12414 L WYFF	26000
12414 L Exstasy	20000	12414 L UVE53	9666	12414 L UVE54	9666	12414 L CDTV24	20000	12414 L WWSW	20000	12414 L WWSW	20000	12414 L WYFF	26000
12414 L Lifetime Movie Netwo	20000	12414 L UVE55	9666	12414 L UVE56	9666	12414 L CDTV25	20000	12414 L WWSW	20000	12414 L WWSW	20000	12414 L WYFF	26000
12414 L Pas TV	20000	12414 L UVE57	9666	12414 L UVE58	9666	12414 L CDTV26	20000	12414 L WWSW	20000	12414 L WWSW	20000	12414 L WYFF	26000
12414 L Starz Cinema East	20000	12414 L UVE59	9666	12414 L UVE60	9666	12414 L CDTV27	20000	12414 L WWSW	20000	12414 L WWSW	20000	12414 L WYFF	26000
12414 L Starz East	20000	12414 L UVE61	9666	12414 L UVE62	9666	12414 L CDTV28	20000	12414 L WWSW	20000	12414 L WWSW	20000	12414 L WYFF	26000
12414 L Starz Family East	20000	12414 L UVE63	9666	12414 L UVE64	9666	12414 L CDTV29	20000	12414 L WWSW	20000	12414 L WWSW	20000	12414 L WYFF	26000
12414 L Starz Theater East	20000	12414 L UVE65	9666	12414 L UVE66	9666	12414 L CDTV30	20000	12414 L WWSW	20000	12414 L WWSW	20000	12414 L WYFF	26000
12428 L Westerns East	20000	12428 L UVE67	9666	12428 L UVE68	9666	12428 L CDTV31	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L KABC-TV	20000	12428 L UVE69	9666	12428 L UVE70	9666	12428 L CDTV32	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L KCBS-TV	20000	12428 L UVE71	9666	12428 L UVE72	9666	12428 L CDTV33	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L KNBC-TV	20000	12428 L UVE73	9666	12428 L UVE74	9666	12428 L CDTV34	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L KSLA-TV	20000	12428 L UVE75	9666	12428 L UVE76	9666	12428 L CDTV35	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L KTTV-TV	20000	12428 L UVE77	9666	12428 L UVE78	9666	12428 L CDTV36	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L KWGN-TV	20000	12428 L UVE79	9666	12428 L UVE80	9666	12428 L CDTV37	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L WPXI-TV	20000	12428 L UVE81	9666	12428 L UVE82	9666	12428 L CDTV38	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L WWSB-TV	20000	12428 L UVE83	9666	12428 L UVE84	9666	12428 L CDTV39	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L WWOR-TV	20000	12428 L UVE85	9666	12428 L UVE86	9666	12428 L CDTV40	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L WXTV-TV	20000	12428 L UVE87	9666	12428 L UVE88	9666	12428 L CDTV41	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L 70's Songbook	20000	12428 L UVE89	9666	12428 L UVE90	9666	12428 L CDTV42	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L Big Band Era	20000	12428 L UVE91	9666	12428 L UVE92	9666	12428 L CDTV43	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L Classic Rock Alternat	20000	12428 L UVE93	9666	12428 L UVE94	9666	12428 L CDTV44	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L Eurostyle	20000	12428 L UVE95	9666	12428 L UVE96	9666	12428 L CDTV45	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L JukeBox Gold	20000	12428 L UVE97	9666	12428 L UVE98	9666	12428 L CDTV46	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L Nonstop Hip Hop	20000	12428 L UVE99	9666	12428 L UVE100	9666	12428 L CDTV47	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12428 L ABC Family	20000	12428 L UVE101	9666	12428 L UVE102	9666	12428 L CDTV48	20000	12428 L WWSW	20000	12428 L WWSW	20000	12428 L WYFF	26000
12443 L Cartoon Network	20000	12443 L UVE103	9666	12443 L UVE104	9666	12443 L CDTV49	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L CNN Headline News	20000	12443 L UVE105	9666	12443 L UVE106	9666	12443 L CDTV50	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L CNN Entertainment TV	20000	12443 L UVE107	9666	12443 L UVE108	9666	12443 L CDTV51	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L HRTV US	20000	12443 L UVE109	9666	12443 L UVE110	9666	12443 L CDTV52	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L MTV East	20000	12443 L UVE111	9666	12443 L UVE112	9666	12443 L CDTV53	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L Nickelodeon West	20000	12443 L UVE113	9666	12443 L UVE114	9666	12443 L CDTV54	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L TCM - Turner Classic	20000	12443 L UVE115	9666	12443 L UVE116	9666	12443 L CDTV55	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L The New TNN	20000	12443 L UVE117	9666	12443 L UVE118	9666	12443 L CDTV56	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L Travel Channel	20000	12443 L UVE119	9666	12443 L UVE120	9666	12443 L CDTV57	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L USA Network East	20000	12443 L UVE121	9666	12443 L UVE122	9666	12443 L CDTV58	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L Adult Alternative	20000	12443 L UVE123	9666	12443 L UVE124	9666	12443 L CDTV59	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L Hawaiian Music	20000	12443 L UVE125	9666	12443 L UVE126	9666	12443 L CDTV60	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000
12443 L Hot Hits	20000	12443 L UVE127	9666	12443 L UVE128	9666	12443 L CDTV61	20000	12443 L WWSW	20000	12443 L WWSW	20000	12443 L WYFF	26000

SatCoDX Global Satellite Chart 02/2009

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	Freq Pol Channel Name	Symbol rate GHz
12.224 R ISSUE	20000	12.370 R NFLN	20000	12.516 R Vu8	20000	12.661 R COMDV	20000	11.960 H 32 - Hallmark	28800	11.845 H Feed	17800
12.224 R LONVY	20000	12.370 R NHL-C	20000	12.516 R Vu8	20000	12.661 R NML2	20000	12.000 H 13 - Discovery Chan	28800	21.5.0 East (35.0 West)	
12.224 R MTV	20000	12.370 R NHL-E	20000	12.516 R Vu8	20000	12.661 R NNL-N	20000	11.960 H 34 - Disc. Civilization	28800	AMC0302K	
12.224 R NCAR2	20000	12.370 R PBS-E	20000	12.516 R Vu8	20000	12.661 R NTL6	20000	11.960 H 35 - NatGeo	28800	AMC 2.250.0 East	
12.224 R RCVu8	20000	12.370 R PBS-Dv	20000	12.516 R WFN	20000	12.661 R OTDtv	20000	11.960 H 36 - TVE	28800	AMC 2.250.0 East	
12.224 R RCVu8	20000	12.370 R RFD	20000	12.516 R WFN	20000	12.661 R RCVu8	20000	12.000 H 17 - Animal Planet	28800	AMC 2.250.0 East	
12.224 R TSC	20000	12.370 R WEA	20000	12.516 R GYX28	20000	12.661 R RCVu8	20000	12.000 H 18 - RT Noticias	28800	AMC 2.250.0 East	
12.224 R TVLND	20000	12.370 R WEA*	20000	12.516 R GYX29	20000	12.661 R SRC-A	20000	12.000 H 83 - SOS Espiritual	28800	AMC 2.250.0 East	
12.224 R Vu22	20000	12.370 R WEA-1	20000	12.516 R GYX39	20000	12.661 R SUPRA	20000	12.000 H 04 - TV Escola	28800	AMC 2.250.0 East	
12.231 R RFI	20000	12.370 R WGN	20000	12.516 R GYX39	20000	12.661 R TVO	20000	12.000 H 06 - DW-TV	28800	AMC 2.250.0 East	
12.231 R A-VIC	20000	12.370 R NPR*	20000	12.516 R METRO	20000	12.661 R Vu26	20000	12.000 H 07 - TV Enlace	28800	AMC 2.250.0 East	
12.231 R CW11	20000	12.384 R CAN-D	20000	12.516 R BTVM	20000	12.661 R VuF2	20000	12.000 H 08 - Terra Viva	28800	AMC 2.250.0 East	
12.231 R GAME	20000	12.384 R CANH	20000	12.516 R NUMAG	20000	12.661 R HDPRE	20000	12.000 H 27 - Bandeirantes	28800	AMC 2.250.0 East	
12.231 R HLTH	20000	12.384 R CAN-Z	20000	12.530 R ANO	20000	12.661 R ALERT	20000	12.000 H 10 - Fox Life	28800	AMC 2.250.0 East	
12.231 R NCAR4	20000	12.384 R DRM	20000	12.530 R CAN-C	20000	12.661 R ALRT	20000	12.000 H 11 - Bloomberg	28800	AMC 2.250.0 East	
12.231 R NHL8	20000	12.384 R SE	20000	12.530 R CAN-S	20000	12.661 R BFVSC	20000	12.000 H 12 - Boomerang	28800	AMC 2.250.0 East	
12.231 R OLN	20000	12.384 R SE3	20000	12.530 R CAN-S	20000	12.661 R LCN	20000	12.000 H 14 - Discovery Kids	28800	AMC 2.250.0 East	
12.231 R QUTTV	20000	12.384 R SE3	20000	12.530 R CAN-S	20000	12.661 R LOCK	20000	12.000 H 15 - Disney Channel	28800	AMC 2.250.0 East	
12.231 R RA	20000	12.384 R SE3	20000	12.530 R CAN-S	20000	12.661 R MOVHD	20000	12.000 H 16 - ESPN Internatio	28800	AMC 2.250.0 East	
12.231 R Vldv	20000	12.384 R SERIE	20000	12.530 R TQSM	20000	12.661 R NETHD	20000	12.000 H 17 - TNT	28800	AMC 2.250.0 East	
12.231 R Vu15	20000	12.384 R SRC-V	20000	12.530 R TQSM	20000	12.661 R SPLYT	20000	12.000 H 18 - CNN Espanol	28800	AMC 2.250.0 East	
12.231 R Vu24	20000	12.384 R TRAK	20000	12.530 R TQSM	20000	12.661 R SPRT	20000	12.000 H 19 - Home & Health	28800	AMC 2.250.0 East	
12.231 R VU24	20000	12.384 R WAHSA	20000	12.530 R CC-M	20000	12.661 R Vu*	20000	12.000 H 20 - IIGD	28800	AMC 2.250.0 East	
12.231 R CBC1T	20000	12.399 R CBC-A	20000	12.530 R CJAD	20000	12.530 R CJPJ	20000	12.000 H 21 - CJC	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 22 - RTT	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 23 - Climatempo	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 24 - Discovery Turbo	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 25 - Discovery Turbo	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 26 - TCM	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 27 - Animal Planet	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 28 - ESPN Brasil	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 29 - Travel & Living	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 30 - Woodoo	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 31 - TV Bom Bum	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 32 - Hallmark	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 33 - Discovery Chan	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 34 - Disc. Civilization	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 35 - NatGeo	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 36 - TVE	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 37 - RT Noticias	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 38 - SOS Espiritual	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 39 - TV Escola	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 40 - DW-TV	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 41 - TV Enlace	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 42 - Terra Viva	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 43 - Discovery Chan	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 44 - Boomerang	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 45 - Disney Channel	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 46 - ESPN Internatio	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 47 - TNT	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 48 - CNN Espanol	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 49 - Home & Health	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 50 - IIGD	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 51 - CJC	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 52 - RTT	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 53 - Climatempo	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 54 - Discovery Turbo	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 55 - Discovery Turbo	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 56 - TCM	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 57 - Animal Planet	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 58 - ESPN Brasil	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 59 - Travel & Living	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 60 - Woodoo	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 61 - TV Bom Bum	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 62 - Hallmark	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 63 - Discovery Chan	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 64 - Disc. Civilization	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 65 - NatGeo	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 66 - TVE	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 67 - RT Noticias	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 68 - SOS Espiritual	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12.000 H 69 - TV Escola	28800	AMC 2.250.0 East	
12.253 R VNU510	20000	12.399 R CBC-a	20000	12.530 R CJPJ	20000	12.530 R CJPJ	20000	12			

Main table listing satellite channels with columns for Freq Pol Channel Name, Symbol rate, GHz, and various channel details. Includes sub-sections for different satellite systems like NSS10CN, HISPASAT 1C, and HISDIOKA.

Table listing satellite channels for INTELSAT 907 332.5° East, including channel names and symbol rates.



Table listing satellite channels for INTELSAT 907 332.5° West, including channel names and symbol rates.

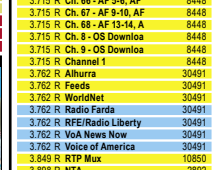


Table listing satellite channels for HISPASAT 1C 330.0° East, including channel names and symbol rates.

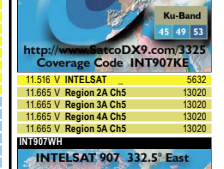


Table listing satellite channels for HISPASAT 1C 330.0° West, including channel names and symbol rates.



Table listing satellite channels for HISDIOKA, including channel names and symbol rates.

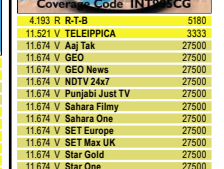


Table listing satellite channels for HISDIOKA, including channel names and symbol rates.



SatcoDX Global Satellite Chart 02/2009

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				
11.048 H		Comovision	14400		11.078 H		NBA Path 2	28570		11.834 V		Tunisie 21	27500		11.804 H		BAMM	27500		11.838 V		Channel FM	27500
11.048 H		Ecuvazia Intercom	14400		11.078 H		NBA Path 3	28570		11.834 V		Algeria 01	27500		11.804 H		Discovery Science	27500		11.838 V		Panorama	27500
11.048 H		once tv	14400		11.078 H		NBA TV Europe	28570		11.834 V		Baghdad Radio	27500		11.804 H		FOX	27500		11.838 V		Panorama FM	27500
11.048 H		Rumba TV	14400		11.078 H		INTEL SAT 901			11.834 V		IRIN	27500		11.804 H		FSPR	27500		11.838 V		Ryadh FM	27500
11.048 H		Tele Nostalgia	14400		11.078 H		3.216 H ATU NOVSTAR	2400		11.834 V		IRIN	27500		11.804 H		JXA1	27500		11.838 V		SPR	27500
11.048 H		TV Agro	14400		11.078 H		3.791 H ATU-UNGA	4340		11.834 V		IRIN	27500		11.804 H		BRZ	27500		11.838 V		SPR2	27500
11.048 H		Radio-1	14400		11.078 H		3.798 H RTI-LAGOS	4340		11.834 V		IRIN	27500		11.804 H		S-ONE	27500		11.838 V		SPR3	27500
11.048 H		Radio-2	14400		11.078 H		3.803 H RTI-LAGOS	4340		11.834 V		IRIN	27500		11.804 H		SKYN	27500		11.838 V		SPR4	27500
11.048 H		Radio-3	14400		11.078 H		3.808 H RTI-New York	4340		11.834 V		IRIN	27500		11.804 H		STARN	27500		11.838 V		SPR5	27500
11.048 H		Radio-4	14400		11.078 H		3.813 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		TELE	27500		11.838 V		SPR6	27500
11.048 H		Radio-5	14400		11.078 H		3.818 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		TV	27500		11.838 V		SPR7	27500
11.048 H		Radio-6	14400		11.078 H		3.823 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MASHRIIA	27500		11.838 V		SPR8	27500
11.048 H		Radio-7	14400		11.078 H		3.828 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR9	27500
11.048 H		Radio-8	14400		11.078 H		3.833 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR10	27500
11.048 H		Radio-9	14400		11.078 H		3.838 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR11	27500
11.048 H		Radio-10	14400		11.078 H		3.843 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR12	27500
11.048 H		Radio-11	14400		11.078 H		3.848 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR13	27500
11.048 H		Radio-12	14400		11.078 H		3.853 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR14	27500
11.048 H		Radio-13	14400		11.078 H		3.858 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR15	27500
11.048 H		Radio-14	14400		11.078 H		3.863 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR16	27500
11.048 H		Radio-15	14400		11.078 H		3.868 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR17	27500
11.048 H		Radio-16	14400		11.078 H		3.873 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR18	27500
11.048 H		Radio-17	14400		11.078 H		3.878 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR19	27500
11.048 H		Radio-18	14400		11.078 H		3.883 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR20	27500
11.048 H		Radio-19	14400		11.078 H		3.888 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR21	27500
11.048 H		Radio-20	14400		11.078 H		3.893 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR22	27500
11.048 H		Radio-21	14400		11.078 H		3.898 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR23	27500
11.048 H		Radio-22	14400		11.078 H		3.903 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR24	27500
11.048 H		Radio-23	14400		11.078 H		3.908 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR25	27500
11.048 H		Radio-24	14400		11.078 H		3.913 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR26	27500
11.048 H		Radio-25	14400		11.078 H		3.918 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR27	27500
11.048 H		Radio-26	14400		11.078 H		3.923 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR28	27500
11.048 H		Radio-27	14400		11.078 H		3.928 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR29	27500
11.048 H		Radio-28	14400		11.078 H		3.933 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR30	27500
11.048 H		Radio-29	14400		11.078 H		3.938 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR31	27500
11.048 H		Radio-30	14400		11.078 H		3.943 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR32	27500
11.048 H		Radio-31	14400		11.078 H		3.948 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR33	27500
11.048 H		Radio-32	14400		11.078 H		3.953 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR34	27500
11.048 H		Radio-33	14400		11.078 H		3.958 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR35	27500
11.048 H		Radio-34	14400		11.078 H		3.963 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR36	27500
11.048 H		Radio-35	14400		11.078 H		3.968 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR37	27500
11.048 H		Radio-36	14400		11.078 H		3.973 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR38	27500
11.048 H		Radio-37	14400		11.078 H		3.978 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR39	27500
11.048 H		Radio-38	14400		11.078 H		3.983 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR40	27500
11.048 H		Radio-39	14400		11.078 H		3.988 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR41	27500
11.048 H		Radio-40	14400		11.078 H		3.993 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR42	27500
11.048 H		Radio-41	14400		11.078 H		3.998 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR43	27500
11.048 H		Radio-42	14400		11.078 H		4.003 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR44	27500
11.048 H		Radio-43	14400		11.078 H		4.008 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR45	27500
11.048 H		Radio-44	14400		11.078 H		4.013 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR46	27500
11.048 H		Radio-45	14400		11.078 H		4.018 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR47	27500
11.048 H		Radio-46	14400		11.078 H		4.023 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR48	27500
11.048 H		Radio-47	14400		11.078 H		4.028 H RTI-ABUJIA	2890		11.834 V		IRIN	27500		11.804 H		AL MAHRIIA	27500		11.838 V		SPR49	27500
11.048 H		Radio-48	14400		11.078 H		4.033 H RTI-ABUJIA	2890															

Freq	Pol	Channel Name	Symbol rate
12.302 H	NEOSP		27500
12.302 H	Princ Sport Arabia		27500
12.302 H	Sharat		27500
12.302 H	TBO		27500
12.302 H	ATV		27500
12.302 H	Al Dayer		27500
12.302 H	ALHAKEKA		27500
12.302 H	Dawn News		27500
12.302 H	FM		27500
12.302 H	SHART		27500
12.302 H	ISHART TV		27500
12.302 H	LBC EU		27500
12.302 H	Nourmina		27500
12.302 H	Seven Stars		27500
12.302 H	AYAM FM		27500
12.302 H	Rotana Radio Jordan		27500
12.302 H	SPN JORDAN		27500
10.775 H	AL Dewitya		27500
10.775 H	Al Oqthar		27500
10.775 H	Al Waseet		27500
10.775 H	ALGHADER		27500
10.775 H	AL Saha Waljama		27500
10.775 H	ALWAL		27500
10.775 H	Cairo Cinema		27500
10.775 H	Dewan Al Arab		27500
10.775 H	Hambal Afrados		27500
10.775 H	Irad EDU		27500
10.775 H	Nickelodeon TV		27500
10.775 H	Panorama Drama 2		27500
10.775 H	Test1-3		27500
10.775 H	Test1-4		27500

Freq	Pol	Channel Name	Symbol rate
12.614 H	SEX ON TV CRYSTAL	8790	
12.614 H	SEX ON TV DIAMOND	8790	
12.614 H	SEX ON TV GOLD	8790	
12.614 H	SEX ON TV SILVER	8790	
12.614 H	SEX ON TV CLASSIC	8790	
12.614 H	HAPESH TV	8790	
12.614 H	PNK SK	40000	
11.471 V	M6	29950	
11.471 V	Orange cine choc	29950	
11.471 V	Orange cine giants	29950	
11.471 V	Orange cine happy	29950	
11.471 V	Orange cine max	29950	
11.471 V	Orange cine novo	29950	
11.471 V	Orange cinema serie	29950	
11.471 V	Orange Foot	29950	
11.471 V	W9	29950	
12.615 H	SEX ON TV CRYSTAL	8789	
12.615 H	SEX ON TV DIAMOND	8789	
12.615 H	SEX ON TV SILVER	8789	
12.615 H	SEX ON TV CLASSIC	8789	
12.615 H	HAPESH TV	8789	
12.615 H	PNK SK	40000	

ATLANTIC BIRD 3 355.0° East

C-Band: ATLANTIC BIRD 3 355.0 East (0.9 West)

EUATB335

Freq	Pol	Channel Name	Symbol rate
10.975 V	OM Feed 3 (OM Fe)	2894	
10.975 V	OM Feed 3 (OM Fe)	2894	
10.975 V	BOUCHAOUY TDA3	16270	
10.975 V	PROGRAMME NATIONA	16270	
10.975 V	A3	16270	
10.975 V	CANAL ALGERIE	16270	
10.975 V	CHAINE 1	16270	
10.975 V	CHAINE 2	16270	
10.975 V	CHAINE 3	16270	
10.975 V	CHAINE 4	16270	
10.975 V	CHAINE 5	16270	
10.975 V	CHAINE 6	16270	
10.975 V	CHAINE 7	16270	
10.975 V	CHAINE 8	16270	
10.975 V	CHAINE 9	16270	
10.975 V	CHAINE 10	16270	
10.975 V	CHAINE 11	16270	
10.975 V	CHAINE 12	16270	
10.975 V	CHAINE 13	16270	
10.975 V	CHAINE 14	16270	
10.975 V	CHAINE 15	16270	
10.975 V	CHAINE 16	16270	
10.975 V	CHAINE 17	16270	
10.975 V	CHAINE 18	16270	
10.975 V	CHAINE 19	16270	
10.975 V	CHAINE 20	16270	
10.975 V	CHAINE 21	16270	
10.975 V	CHAINE 22	16270	
10.975 V	CHAINE 23	16270	
10.975 V	CHAINE 24	16270	
10.975 V	CHAINE 25	16270	
10.975 V	CHAINE 26	16270	
10.975 V	CHAINE 27	16270	
10.975 V	CHAINE 28	16270	
10.975 V	CHAINE 29	16270	
10.975 V	CHAINE 30	16270	
10.975 V	CHAINE 31	16270	
10.975 V	CHAINE 32	16270	
10.975 V	CHAINE 33	16270	
10.975 V	CHAINE 34	16270	
10.975 V	CHAINE 35	16270	
10.975 V	CHAINE 36	16270	
10.975 V	CHAINE 37	16270	
10.975 V	CHAINE 38	16270	
10.975 V	CHAINE 39	16270	
10.975 V	CHAINE 40	16270	
10.975 V	CHAINE 41	16270	
10.975 V	CHAINE 42	16270	
10.975 V	CHAINE 43	16270	
10.975 V	CHAINE 44	16270	
10.975 V	CHAINE 45	16270	
10.975 V	CHAINE 46	16270	
10.975 V	CHAINE 47	16270	
10.975 V	CHAINE 48	16270	
10.975 V	CHAINE 49	16270	
10.975 V	CHAINE 50	16270	

EUATB335

ATLANTIC BIRD 3 355.0° East

C-Band: ATLANTIC BIRD 3 355.0 East (0.9 West)

Freq	Pol	Channel Name	Symbol rate
3.648 H	Tele Sahel (MUT)	2170	
3.656 H	KTN NGONG ENC B	2892	
3.711 H	OM Fe	2995	
3.727 H	CHIAFRPPO1	29950	
3.727 H	CHIAFRPPO2	29950	
3.727 H	CHIAFRPPO3	29950	
3.727 H	CHIAFRPPO4	29950	
3.727 H	CHIAFRPPO5	29950	
3.727 H	CHIAFRPPO6	29950	
3.727 H	CHIAFRPPO7	29950	
3.727 H	CHIAFRPPO8	29950	
3.727 H	CHIAFRPPO9	29950	
3.727 H	CHIAFRPPO10	29950	
3.727 H	CHIAFRPPO11	29950	
3.727 H	CHIAFRPPO12	29950	
3.727 H	CHIAFRPPO13	29950	
3.727 H	CHIAFRPPO14	29950	
3.727 H	CHIAFRPPO15	29950	
3.727 H	CHIAFRPPO16	29950	
3.727 H	CHIAFRPPO17	29950	
3.727 H	CHIAFRPPO18	29950	
3.727 H	CHIAFRPPO19	29950	
3.727 H	CHIAFRPPO20	29950	
3.727 H	CHIAFRPPO21	29950	
3.727 H	CHIAFRPPO22	29950	
3.727 H	CHIAFRPPO23	29950	
3.727 H	CHIAFRPPO24	29950	
3.727 H	CHIAFRPPO25	29950	
3.727 H	CHIAFRPPO26	29950	
3.727 H	CHIAFRPPO27	29950	
3.727 H	CHIAFRPPO28	29950	
3.727 H	CHIAFRPPO29	29950	
3.727 H	CHIAFRPPO30	29950	
3.727 H	CHIAFRPPO31	29950	
3.727 H	CHIAFRPPO32	29950	
3.727 H	CHIAFRPPO33	29950	
3.727 H	CHIAFRPPO34	29950	
3.727 H	CHIAFRPPO35	29950	
3.727 H	CHIAFRPPO36	29950	
3.727 H	CHIAFRPPO37	29950	
3.727 H	CHIAFRPPO38	29950	
3.727 H	CHIAFRPPO39	29950	
3.727 H	CHIAFRPPO40	29950	
3.727 H	CHIAFRPPO41	29950	
3.727 H	CHIAFRPPO42	29950	
3.727 H	CHIAFRPPO43	29950	
3.727 H	CHIAFRPPO44	29950	
3.727 H	CHIAFRPPO45	29950	
3.727 H	CHIAFRPPO46	29950	
3.727 H	CHIAFRPPO47	29950	
3.727 H	CHIAFRPPO48	29950	
3.727 H	CHIAFRPPO49	29950	
3.727 H	CHIAFRPPO50	29950	

EUATB335

ATLANTIC BIRD 3 355.0° East

C-Band: ATLANTIC BIRD 3 355.0 East (0.9 West)

Freq	Pol	Channel Name	Symbol rate
10.975 V	OM Feed 3 (OM Fe)	2894	
10.975 V	OM Feed 3 (OM Fe)	2894	
10.975 V	BOUCHAOUY TDA3	16270	
10.975 V	PROGRAMME NATIONA	16270	
10.975 V	A3	16270	
10.975 V	CANAL ALGERIE	16270	
10.975 V	CHAINE 1	16270	
10.975 V	CHAINE 2	16270	
10.975 V	CHAINE 3	16270	
10.975 V	CHAINE 4	16270	
10.975 V	CHAINE 5	16270	
10.975 V	CHAINE 6	16270	
10.975 V	CHAINE 7	16270	
10.975 V	CHAINE 8	16270	
10.975 V	CHAINE 9	16270	
10.975 V	CHAINE 10	16270	
10.975 V	CHAINE 11	16270	
10.975 V	CHAINE 12	16270	
10.975 V	CHAINE 13	16270	
10.975 V	CHAINE 14	16270	
10.975 V	CHAINE 15	16270	
10.975 V	CHAINE 16	16270	
10.975 V	CHAINE 17	16270	
10.975 V	CHAINE 18	16270	
10.975 V	CHAINE 19	16270	
10.975 V	CHAINE 20	16270	
10.975 V	CHAINE 21	16270	
10.975 V	CHAINE 22	16270	
10.975 V	CHAINE 23	16270	
10.975 V	CHAINE 24	16270	
10.975 V	CHAINE 25	16270	
10.975 V	CHAINE 26	16270	
10.975 V	CHAINE 27	16270	
10.975 V	CHAINE 28	16270	
10.975 V	CHAINE 29	16270	
10.975 V	CHAINE 30	16270	
10.975 V	CHAINE 31	16270	
10.975 V	CHAINE 32	16270	
10.975 V	CHAINE 33	16270	
10.975 V	CHAINE 34	16270	
10.975 V	CHAINE 35	16270	
10.975 V	CHAINE 36	16270	
10.975 V	CHAINE 37	16270	
10.975 V	CHAINE 38	16270	
10.975 V	CHAINE 39	16270	
10.975 V	CHAINE 40	16270	
10.975 V	CHAINE 41	16270	
10.975 V	CHAINE 42	16270	
10.975 V	CHAINE 43	16270	
10.975 V	CHAINE 44	16270	
10.975 V	CHAINE 45	16270	
10.975 V	CHAINE 46	16270	
10.975 V	CHAINE 47	16270	
10.975 V	CHAINE 48	16270	
10.975 V	CHAINE 49	16270	
10.975 V	CHAINE 50	16270	

EUATB335

ATLANTIC BIRD 3 355.0° East

C-Band: ATLANTIC BIRD 3 355.0 East (0.9 West)

Freq	Pol	Channel Name	Symbol rate
10.975 V	OM Feed 3 (OM Fe)	2894	
10.975 V	OM Feed 3 (OM Fe)	2894	
10.975 V	BOUCHAOUY TDA3	16270	
10.975 V	PROGRAMME NATIONA	16270	
10.975 V	A3	16270	
10.975 V	CANAL ALGERIE	16270	
10.975 V	CHAINE 1	16270	
10.975 V	CHAINE 2	16270	
10.975 V	CHAINE 3	16270	
10.975 V	CHAINE 4	16270	
10.975 V	CHAINE 5	16270	
10.975 V	CHAINE 6	16270	
10.975 V	CHAINE 7	16270	
10.975 V	CHAINE 8	16270	
10.975 V	CHAINE 9	16270	
10.975 V	CHAINE 10	16270	
10.975 V	CHAINE 11	16270	
10.975 V	CHAINE 12	16270	
10.975 V	CHAINE 13	16270	
10.975 V	CHAINE 14	16270	
10.975 V	CHAINE 15	16270	
10.975 V	CHAINE 16	16270	
10.975 V	CHAINE 17	16270	
10.975 V	CHAINE 18	16270	
10.975 V	CHAINE 19	16270	
10.975 V	CHAINE 20	16270	
10.975 V	CHAINE 21	16270	
10.975 V	CHAINE 22	16270	
10.975 V	CHAINE 23	16270	
10.975 V	CHAINE 24	16270	
10.975 V	CHAINE 25	16270	
10.975 V	CHAINE 26	16270	
10.975 V	CHAINE 27	16270	
10.975 V	CHAINE 28	16270	
10.975 V	CHAINE 29	16270	
10.975 V	CHAINE 30	16270	
10.975 V	CHAINE 31	16270	
10.975 V	CHAINE 32	16270	
10.975 V	CHAINE 33	16270	
10.975 V	CHAINE 34	16270	
10.975 V	CHAINE 35	16270	
10.975 V	CHAINE 36	16270	
10.975 V	CHAINE 37	16270	
10.975 V	CHAINE 38	16270	
10.975 V	CHAINE 39	16270	
10.975 V	CHAINE 40	16270	
10.975 V	CHAINE 41	16270	
10.975 V	CHAINE 42	16270	
10.975 V	CHAINE 43	16270	
10.975 V	CHAINE 44	16270	
10.975 V	CHAINE 45	16270	
10.975 V	CHAINE 46	16270	
10.975 V	CHAINE 47	16270	
10.975 V	CHAINE 48	16270	
10.975 V	CHAINE 49	16270	
10.975 V	CHAINE 50	16270	

Freq	Pol	Channel Name	Symbol rate
10.925 H	Boom Comedy	27500	
10.925 H	Boom Drama	27500	
10.925 H	Boom Hop!	27500	
10.925 H	Boom Music	27500	
10.925 H	Boom Sport One	27500	
10.925 H	Boom Sport Two	27500	
10.925 H	Extreme Sports	27500	
10.925 H	Favorit TV	27500	
10.925 H	Kanal D	27500	
10.925 H	Kanals Geographic	27500	
10.925 H	Playboy	27500	
10.925 H	Sport Klub Ro	27500	
10.925 H	Sport Klub Tr	27500	
10.925 H	Sport Klub Tv	27500	
10.925 H	TVR Cultural	27500	
10.925 H	Viasat History	27500	
11.122 H	TV Amna RA	1652	
11.260 H	A 3 storyline	27500	
11.260 H	anime+ Hungary	27500	
11.260 H	anime+ Romania	27500	
11.260 H	Filmuzum	27500	
11.260 H	HiTV	27500	
11.260 H	Minimax Huni+A	27500	
11.260 H	Minimax Romi+A	27500	
11.260 H	PaX	27500	
11.260 H	CH2	27500	
11.260 H	HiTV	27500	
11.260 H	Minimax Hungary	27500	
11.260 H	Minimax Romania	27500	
11.260 H	Minimax Serbia	27500	
11.260 H	Telemela 2	27500	
11.260 H	Telemela 3	27500	
11.260 H	Telemela 6	27500	

SatcoDX Global Satellite Chart 02/2009



http://www.SatcoDX.com/3592
Coverage Code TH0003KU

Freq Pol Channel Name	Symbol rate	GHz
11.823 H Moldov 1	28000	
11.823 H Moldov 2	28000	
11.823 H Moldov 3	28000	
11.823 H Moldov 4	28000	
11.823 H Moldov 5	28000	
11.823 H Moldov 6	28000	
11.823 H Moldov 7	28000	
11.823 H Moldov 8	28000	
11.823 H Moldov 9	28000	
11.823 H Moldov 10	28000	
11.823 H Moldov 11	28000	
11.823 H Moldov 12	28000	
11.823 H Moldov 13	28000	
11.823 H Moldov 14	28000	
11.823 H Moldov 15	28000	
11.823 H Moldov 16	28000	
11.823 H Moldov 17	28000	
11.823 H Moldov 18	28000	
11.823 H Moldov 19	28000	
11.823 H Moldov 20	28000	
11.823 H Moldov 21	28000	
11.823 H Moldov 22	28000	
11.823 H Moldov 23	28000	
11.823 H Moldov 24	28000	
11.823 H Moldov 25	28000	
11.823 H Moldov 26	28000	
11.823 H Moldov 27	28000	
11.823 H Moldov 28	28000	
11.823 H Moldov 29	28000	
11.823 H Moldov 30	28000	
11.823 H Moldov 31	28000	
11.823 H Moldov 32	28000	
11.823 H Moldov 33	28000	
11.823 H Moldov 34	28000	
11.823 H Moldov 35	28000	
11.823 H Moldov 36	28000	
11.823 H Moldov 37	28000	
11.823 H Moldov 38	28000	
11.823 H Moldov 39	28000	
11.823 H Moldov 40	28000	
11.823 H Moldov 41	28000	
11.823 H Moldov 42	28000	
11.823 H Moldov 43	28000	
11.823 H Moldov 44	28000	
11.823 H Moldov 45	28000	
11.823 H Moldov 46	28000	
11.823 H Moldov 47	28000	
11.823 H Moldov 48	28000	
11.823 H Moldov 49	28000	
11.823 H Moldov 50	28000	
11.823 H Moldov 51	28000	
11.823 H Moldov 52	28000	
11.823 H Moldov 53	28000	
11.823 H Moldov 54	28000	
11.823 H Moldov 55	28000	
11.823 H Moldov 56	28000	
11.823 H Moldov 57	28000	
11.823 H Moldov 58	28000	
11.823 H Moldov 59	28000	
11.823 H Moldov 60	28000	
11.823 H Moldov 61	28000	
11.823 H Moldov 62	28000	
11.823 H Moldov 63	28000	
11.823 H Moldov 64	28000	
11.823 H Moldov 65	28000	
11.823 H Moldov 66	28000	
11.823 H Moldov 67	28000	
11.823 H Moldov 68	28000	
11.823 H Moldov 69	28000	
11.823 H Moldov 70	28000	
11.823 H Moldov 71	28000	
11.823 H Moldov 72	28000	
11.823 H Moldov 73	28000	
11.823 H Moldov 74	28000	
11.823 H Moldov 75	28000	
11.823 H Moldov 76	28000	
11.823 H Moldov 77	28000	
11.823 H Moldov 78	28000	
11.823 H Moldov 79	28000	
11.823 H Moldov 80	28000	
11.823 H Moldov 81	28000	
11.823 H Moldov 82	28000	
11.823 H Moldov 83	28000	
11.823 H Moldov 84	28000	
11.823 H Moldov 85	28000	
11.823 H Moldov 86	28000	
11.823 H Moldov 87	28000	
11.823 H Moldov 88	28000	
11.823 H Moldov 89	28000	
11.823 H Moldov 90	28000	
11.823 H Moldov 91	28000	
11.823 H Moldov 92	28000	
11.823 H Moldov 93	28000	
11.823 H Moldov 94	28000	
11.823 H Moldov 95	28000	
11.823 H Moldov 96	28000	
11.823 H Moldov 97	28000	
11.823 H Moldov 98	28000	
11.823 H Moldov 99	28000	
11.823 H Moldov 100	28000	

Freq Pol Channel Name	Symbol rate	GHz
12.322 H TV2 Norge	27800	
12.322 H Al Jazeera English	27800	
12.322 H JIM	27800	
12.322 H Playhouse Disney	27800	
12.322 H Rikstoto Direkte	27800	
12.322 H SuBt	27800	
12.322 H TVNorge	27800	
12.322 H P4	27800	
12.322 H Radio Norge	27800	
12.322 H Radio P4 Oslo	27800	
12.399 H Nelonen HD	28000	
12.399 H CCTV9	28000	
12.399 H Musci!	28000	
12.399 H Nautil	28000	
12.399 H Toto-TV	28000	
12.399 H TV Patriot	28000	
12.399 H EXPRESS mp2	28000	
12.399 H KISS	28000	
12.428 H NRK AN Reserve	28000	
12.428 H NRK P1 Reserve	28000	
12.428 H Discov Science	28000	
12.428 H Discov Trav&Liv	28000	
12.428 H Discov World	28000	
12.428 H Motors TV	28000	
12.428 H SVT VHC1 TS	28000	
12.428 H Nick-VH1C TS	28000	
12.428 H Sky News	28000	
12.428 H VH1 Classic	28000	
12.428 H 208	28000	
12.428 H 209	28000	
12.428 H 210	28000	
12.428 H 211	28000	
12.428 H 212	28000	
12.428 H 213	28000	
12.428 H 214	28000	
12.428 H 215	28000	
12.428 H 216	28000	
12.428 H 217	28000	
12.428 H 218	28000	
12.428 H 219	28000	
12.428 H 220	28000	
12.428 H 221	28000	
12.428 H 222	28000	
12.428 H 223	28000	
12.428 H 224	28000	
12.428 H 225	28000	
12.428 H 226	28000	
12.428 H Eurosport 1	28000	
12.428 H Eurosport 2	28000	
12.428 H TV-biljett 1	27800	
12.428 H TV-biljett 2	27800	
12.428 H TV-biljett 3	27800	
12.428 H TV4 Komed	27800	
12.428 H TV4 Science Fiction	27800	
12.428 H Eurosport 1	28000	
12.428 H Eurosport 2	28000	
12.428 H TV-biljett 1	27800	
12.428 H TV-biljett 2	27800	
12.428 H TV-biljett 3	27800	
12.428 H TV4 Komed	27800	
12.428 H TV4 Science Fiction	27800	
12.428 H 24	28000	
12.428 H GvældalNytt	28000	
12.428 H 24 MitNytt	28000	
12.428 H 24 NordNytt	28000	
12.428 H 24 SmålandsNytt	28000	
12.428 H 24 SydNytt	28000	
12.428 H 24 TrärsNytt	28000	
12.428 H 24 VärmlandsNytt	28000	
12.428 H 24 VästernorrNytt	28000	
12.428 H 24 ÖstNytt	28000	
12.428 H SVT1	28000	
12.428 H SVT1 Gävle	28000	
12.428 H SVT1 Jämtland	28000	
12.428 H SVT1 Jönköping	28000	
12.428 H SVT1 MittNytt	28000	
12.428 H SVT1 NorrNytt	28000	
12.428 H SVT1 SmålandsNytt	28000	
12.428 H SVT1 SydNytt	28000	
12.428 H SVT1 TrärsNytt	28000	
12.428 H SVT1 VärmlandsNytt	28000	
12.428 H SVT1 VästernorrNytt	28000	
12.428 H SVT1 ÖstNytt	28000	
12.428 H SVT2	28000	
12.428 H SVT2 Gävle	28000	
12.428 H SVT2 Gvældal	28000	
12.428 H SVT2 Jämtland	28000	
12.428 H SVT2 Jönköping	28000	
12.428 H SVT2 MittNytt	28000	
12.428 H SVT2 NorrNytt	28000	
12.428 H SVT2 SmålandsNytt	28000	
12.428 H SVT2 SydNytt	28000	
12.428 H SVT2 TrärsNytt	28000	
12.428 H SVT2 VärmlandsNytt	28000	
12.428 H SVT2 VästernorrNytt	28000	
12.428 H SVT2 ÖstNytt	28000	
12.428 H SVT3	28000	
12.428 H SVT3 Gävle	28000	
12.428 H SVT3 Gvældal	28000	
12.428 H SVT3 Jämtland	28000	
12.428 H SVT3 Jönköping	28000	
12.428 H SVT3 MittNytt	28000	
12.428 H SVT3 NorrNytt	28000	
12.428 H SVT3 SmålandsNytt	28000	
12.428 H SVT3 SydNytt	28000	
12.428 H SVT3 TrärsNytt	28000	
12.428 H SVT3 VärmlandsNytt	28000	
12.428 H SVT3 VästernorrNytt	28000	
12.428 H SVT3 ÖstNytt	28000	
12.428 H SVT4	28000	
12.428 H SVT4 Gävle	28000	
12.428 H SVT4 Gvældal	28000	
12.428 H SVT4 Jämtland	28000	
12.428 H SVT4 Jönköping	28000	
12.428 H SVT4 MittNytt	28000	
12.428 H SVT4 NorrNytt	28000	
12.428 H SVT4 SmålandsNytt	28000	
12.428 H SVT4 SydNytt	28000	
12.428 H SVT4 TrärsNytt	28000	
12.428 H SVT4 VärmlandsNytt	28000	
12.428 H SVT4 VästernorrNytt	28000	
12.428 H SVT4 ÖstNytt	28000	
12.428 H SVT5	28000	
12.428 H SVT5 Gävle	28000	
12.428 H SVT5 Gvældal	28000	
12.428 H SVT5 Jämtland	28000	
12.428 H SVT5 Jönköping	28000	
12.428 H SVT5 MittNytt	28000	
12.428 H SVT5 NorrNytt	28000	
12.428 H SVT5 SmålandsNytt	28000	
12.428 H SVT5 SydNytt	28000	
12.428 H SVT5 TrärsNytt	28000	
12.428 H SVT5 VärmlandsNytt	28000	
12.428 H SVT5 VästernorrNytt	28000	
12.428 H SVT5 ÖstNytt	28000	
12.428 H SVT6	28000	
12.428 H SVT6 Gävle	28000	
12.428 H SVT6 Gvældal	28000	
12.428 H SVT6 Jämtland	28000	
12.428 H SVT6 Jönköping	28000	
12.428 H SVT6 MittNytt	28000	
12.428 H SVT6 NorrNytt	28000	
12.428 H SVT6 SmålandsNytt	28000	
12.428 H SVT6 SydNytt	28000	
12.428 H SVT6 TrärsNytt	28000	
12.428 H SVT6 VärmlandsNytt	28000	
12.428 H SVT6 VästernorrNytt	28000	
12.428 H SVT6 ÖstNytt	28000	
12.428 H SVT7	28000	
12.428 H SVT7 Gävle	28000	
12.428 H SVT7 Gvældal	28000	
12.428 H SVT7 Jämtland	28000	
12.428 H SVT7 Jönköping	28000	
12.428 H SVT7 MittNytt	28000	
12.428 H SVT7 NorrNytt	28000	
12.428 H SVT7 SmålandsNytt	28000	
12.428 H SVT7 SydNytt	28000	
12.428 H SVT7 TrärsNytt	28000	
12.428 H SVT7 VärmlandsNytt	28000	
12.428 H SVT7 VästernorrNytt	28000	
12.428 H SVT7 ÖstNytt	28000	
12.428 H SVT8	28000	
12.428 H SVT8 Gävle	28000	
12.428 H SVT8 Gvældal	28000	
12.428 H SVT8 Jämtland	28000	
12.428 H SVT8 Jönköping	28000	
12.428 H SVT8 MittNytt	28000	
12.428 H SVT8 NorrNytt	28000	
12.428 H SVT8 SmålandsNytt	28000	
12.428 H SVT8 SydNytt	28000	
12.428 H SVT8 TrärsNytt	28000	
12.428 H SVT8 VärmlandsNytt	28000	
12.428 H SVT8 VästernorrNytt	28000	
12.428 H SVT8 ÖstNytt	28000	
12.428 H SVT9	28000	
12.428 H SVT9 Gävle	28000	
12.428 H SVT9 Gvældal	28000	
12.428 H SVT9 Jämtland	28000	
12.428 H SVT9 Jönköping	28000	
12.428 H SVT9 MittNytt	28000	
12.428 H SVT9 NorrNytt	28000	
12.428 H SVT9 SmålandsNytt	28000	
12.428 H SVT9 SydNytt	28000	
12.428 H SVT9 TrärsNytt	28000	
12.428 H SVT9 VärmlandsNytt	28000	
12.428 H SVT9 VästernorrNytt	28000	
12.428 H SVT9 ÖstNytt	28000	
12.428 H SVT10	28000	
12.428 H SVT10 Gävle	28000	
12.428 H SVT10 Gvældal	28000	
12.428 H SVT10 Jämtland	28000	
12.428 H SVT10 Jönköping	28000	
12.428 H SVT10 MittNytt	28000	
12.428 H SVT10 NorrNytt	28000	
12.428 H SVT10 SmålandsNytt	28000	
12.428 H SVT10 SydNytt	28000	
12.428 H SVT10 TrärsNytt	28000	
12.428 H SVT10 VärmlandsNytt	28000	
12.428 H SVT10 VästernorrNytt	28000	
12.428 H SVT10 ÖstNytt	28000	
12.428 H SVT11	28000	
12.428 H SVT11 Gävle	28000	
12.428 H SVT11 Gvældal	28000	
12.428 H SVT11 Jämtland	28000	
12.428 H SVT11 Jönköping	28000	
12.428 H SVT11 MittNytt	28000	
12.428 H SVT11 NorrNytt	28000	
12.428 H SVT11 SmålandsNytt	28000	
12.428 H SVT11 SydNytt	28000	
12.428 H SVT11 TrärsNytt	28000	
12.428 H SVT11 VärmlandsNytt	28000	
12.428 H SVT11 VästernorrNytt	28000	
12.428 H SVT11 ÖstNytt	28000	
12.428 H SVT12	28000	
12.428 H SVT12 Gävle	28000	
12.428 H SVT12 Gvældal	28000	
12.428 H SVT12 Jämtland	28000	
12.428 H SVT12 Jönköping	28000	
12.428 H SVT12 MittNytt	28000	
12.428 H SVT12 NorrNytt	28000	
12.428 H SVT12 SmålandsNytt	28000	
12.428 H SVT12 SydNytt	28000	
12.428 H SVT12 TrärsNytt	28000	
12.428 H SVT12 VärmlandsNytt	28000	
12.428 H SVT12 VästernorrNytt	28000	
12.428 H SVT12 ÖstNytt	28000	
12.428 H SVT13	28000	
12.428 H SVT1		

SatcoDX World Statistics



Alexandru Porosanu
TELE-satellite
Statistics Center
Romania

Encryption Worldwide

Encryption	Dec 2007	Nov 2008	Dec 2008	2008/2007
POVU	934	841	888	-4.93%
VGRD	1188	728	806	-32.15%
NAGV	1547	805	791	-48.87%
IRDT	968	509	525	-45.76%
MLT2	287	287	287	0.00%
VICS	385	256	237	-38.44%
MGRD	588	211	192	-67.35%
CONX	465	221	188	-59.57%
BCNV	302	176	176	-41.72%
IRVG	178	174	174	-2.25%
CRYW	217	179	157	-27.65%
MDS_	64	63	63	-1.56%
BISS	92	62	58	-36.96%
VIMG	95	45	45	-52.63%
VCZ+	54	44	44	-18.52%
IRMG	49	24	24	-51.02%
MGVC	110	24	24	-78.18%
MGCW	33	24	24	-27.27%
PVU+	23	23	23	0.00%
BCRT	38	17	14	-63.16%
NTL	7	9	9	28.57%
IRCW	11	9	9	-18.18%
NDS	6	6	6	0.00%
RAS	8	5	5	-25.00%
WCIR	7	5	5	-28.57%
IRDETO	13	4	4	-Inf
PVNV	3	3	3	0.00%
VISK	3	3	3	0.00%
WGNR	3	3	3	0.00%
CCGN	6	3	3	-50.00%
IRNV	4	3	3	-25.00%
CONV	2	2	2	0.00%
KEYF	2	2	2	0.00%
EBU (BISS-E)	1	1	1	0.00%
NTL	1	1	1	0.00%
DRMC	1	1	1	0.00%
CWVA	3	1	1	-66.67%
CODI	2	1	1	-50.00%
NTL2	1	1	1	0.00%

Transmission Types Worldwide

Type	Dec 2007	Nov 2008	Dec 2008	2008/2007
TV-DIG-CRYPT	10729	11149	11448	6.70%
TV-DIG	7656	7121	7131	-6.86%
R-DIG	4216	3961	4082	-3.18%
DATA	2083	2152	2161	3.74%
R-DIG-CRYPT	1472	1263	1304	-11.41%
TV-SD-CRYPT	143	448	438	206.29%
TV-HD-CRYPT	208	256	356	71.15%
TV-ANA	129	100	100	-22.48%
TV-SD	55	91	99	80.00%
TV-HD	60	83	67	11.67%
R-ANA	64	47	47	-26.56%
TV-ANA-CRYPT	57	45	45	-21.05%

Transponder Polarization Worldwide

Polarization	Dec 2007	Nov 2008	Dec 2008	2008/2007
V	11520	11827	11875	3.08%
H	11569	11291	11757	1.63%
R	2273	2087	2166	-4.71%
L	1584	1500	1477	-6.76%

Top 100 Ku band Frequencies Worldwide

Frequency	Dec 2007	Nov 2008	Dec 2008	2008/2007
12.226	184	185	184	0.00%
12.149	147	167	177	20.41%
11.823	71	163	176	147.89%
12.399	162	158	160	-1.23%
11.785	84	153	152	80.95%
12.355	96	151	151	57.29%
11.804	41	154	151	268.29%
11.938	92	129	139	51.09%
11.747	42	135	136	223.81%
12.302	36	95	135	275.00%
12.092	86	122	127	47.67%
12.322	96	99	126	31.25%
12.341	113	125	122	7.96%
12.418	91	117	121	32.97%
11.766	77	118	119	54.55%
12.661	64	120	118	84.38%
11.996	68	116	116	70.59%
12.523	95	112	115	21.05%
12.647	90	110	111	23.33%
12.643	70	107	109	55.71%
11.919	50	101	107	114.00%
12.628	106	106	106	0.00%
12.282	132	101	101	-23.48%
12.428	118	100	99	-16.10%
12.407	98	62	98	0.00%
12.265	75	97	97	506.25%
12.688	75	100	97	29.33%
12.253	72	96	96	33.33%
12.053	50	94	95	90.00%
12.015	40	91	95	137.50%
10.970	69	61	95	37.68%
12.224	79	96	95	20.25%
12.726	18	90	94	422.22%
11.843	79	92	93	17.72%
12.360	72	90	91	26.39%
11.836	62	87	90	45.16%
12.207	199	101	90	-54.77%
12.303	127	100	89	-29.92%
12.012	101	91	89	-11.88%
11.727	92	98	87	-5.43%
12.284	34	86	86	152.94%
11.283	77	65	86	11.69%
12.268	88	87	86	-2.27%
11.900	48	83	85	77.08%
11.862	32	84	84	162.50%
12.638	45	83	83	84.44%
12.516	78	83	83	6.41%
11.778	12	83	83	591.67%
11.635	68	81	82	20.59%
12.169	68	81	81	19.12%
12.476	71	94	80	12.68%
12.603	81	83	79	-2.47%
12.472	78	78	79	-12.22%
12.239	50	78	78	56.00%
12.574	219	76	78	-64.38%
12.311	101	70	76	-24.75%
12.632	72	73	75	4.17%
12.297	75	74	75	0.00%
12.545	88	73	75	-14.77%
12.501	70	74	74	5.71%
12.130	30	74	74	146.67%
12.380	98	73	73	-25.51%
12.414	109	88	73	-33.03%
11.170	58	49	72	24.14%
12.608	14	73	72	414.29%
11.604	64	71	72	12.50%
12.326	154	72	72	-53.25%
11.617	68	68	71	4.41%
12.604	182	71	70	-61.54%
12.034	29	76	69	137.93%
12.565	55	66	69	25.45%
11.596	31	60	68	119.35%
11.010	82	22	67	-82.29%
12.563	40	67	67	67.50%
12.607	45	67	66	46.67%
12.246	165	64	65	-60.61%
11.623	94	61	65	41.30%
12.370	46	69	65	-30.85%
12.723	64	64	64	Inf
11.554	25	65	64	156.00%
12.456	88	63	64	-27.27%
12.577	68	65	64	128.57%
12.644	56	65	63	Inf
12.384	82	63	63	-23.17%
12.443	111	68	62	-44.14%
11.642	76	53	62	-18.42%
12.581	24	50	62	158.33%
10.972	64	62	61	-4.69%
11.050	56	10	61	8.93%

Top 40 Symbol Rate Usage Worldwide

Symbol Rate	Dec 2007	Nov 2008	Dec 2008	2008/2007
27500	8963	9106	9306	3.83%
30000	2260	2450	2717	20.22%
20000	2801	2491	2451	-12.50%
22000	1276	1087	1036	-18.81%
28000	538	508	508	-5.58%
19510	446	456	456	2.24%
21096	410	410	410	0.00%
22500	71	379	396	457.75%
29270	276	286	286	3.62%
27800	267	289	277	3.75%
28500	215	276	276	28.37%
29950	193	238	238	23.32%
26000	127	212	201	58.27%
24500	130	210	196	50.77%
27684	175	175	175	0.00%
26480	76	113	141	85.53%
21300	106	106	106	Inf
30800	106	104	104	-1.89%
18000	7	104	104	1328.57%
26470	107	109	100	-6.54%
22425	83	93	93	12.05%
27690	62	83	92	48.39%
3428	51	89	90	76.47%
28800	25	86	89	256.00%
40700	19	89	89	368.42%
33483	15	85	86	-36.76%
26667	136	85	85	Inf
27489	85	85	85	Inf
20600	81	82	81	0.00%
25000	48	48	78	62.50%
29000	61	59	74	21.31%
26652	29	64	74	155.17%
28100	71	76	72	1.41%
25600	70	70	70	0.00%
28700	25	70	70	180.00%
28125	94	67	67	-28.72%
24440	284	66	63	-77.82%
26657	30	62	63	110.00%
3255	46	65	63	36.96%

Top 80 C band Frequencies Worldwide

Frequency	Dec 2007	Nov 2008	Dec 2008	2008/2007
4.000	128	117	114	-10.94%
4.060	193	103	103	-46.63%
4.175	70	71	101	44.29%
4.040	94	89	92	-2.13%
4.080	83	93	90	8.43%
4.055	113	63	90	-20.35%
4.180	47	71	72	53.19%
4.140	55	64	64	16.36%
4.100	47	60	63	34.04%
4.120	70	62	62	-11.43%
4.120	79	59	59	-25.32%
4.060	51	40	40	-21.57%
4.025	23	48	34	47.83%
4.071	2	33	34	1600.00%
4.179	23	32	32	39.13%
4.083	9	32	32	255.56%
4.177	29	22	31	Inf
4.106	29	29	29	0.00%
4.147	24	25	25	4.17%
4.067	22	22	22	0.00%
4.004	12	13	20	Inf
4.124	12	18	18	50.00%
4.151	17	17	17	0.00%
4.185	35	17	17	-51.43%
4.043	19	17	17	-10.53%
4.087	17	16	17	0.00%
4.041	17	17	17	0.00%
4.064	17	16	16	-5.88%
4.125	10	3	14	40.00%
4.005	18	20	14	-22.22%
4.113	8	8	13	62.50%
4.062	17	13	13	-23.53%
4.084	24	2	12	-64.17%
4.143	9	11	11	22.22%
4.149	4	10	11	175.00%
4.107	7	9	9	28.57%
4.168	9	9	9	0.00%
4.192	8	8	8	0.00%
4.110	12	8	8	-33.33%
4.189	4	8	8	100.00%
4.184	1	8	8	700.00%
4.159	8	8	8	0.00%
4.157	7	7	7	0.00%
4.091	6	7	7	16.67%
4.021	14	7	7	-50.00%
4.034	8	7	7	-12.50%
4.092	8	7	7	-12.50%
4.118	5	6	6	20.00%
4.065	5	6	6	20.00%
4.042	9	5	6	-33.33%
4.172	6	6	6	0.00%
4.054	5	5	6	20.00%
4.132	3	5	6	100.00%
4.130	4	6	6	50.00%
4.114	2	7	6	200.00%
4.166	7	6	6	-14.29%
4.126	5	6	6	20.00%
4.170	6	5	6	0.00%
4.137	4	6	6	50.00%
4.017	2	2	5	150.00%
4.097	4	4	5	



Edited by
Alexander Wiese

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Travel into the Past
TELE-satellite Magazine
Issue 01/1988



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Nur in TELE satellit die aktuellsten, nachgeprüften Satelliten-Tabellen für Europa

Europas Satelliten

Programme Verteilsatelliten für Europa im Sendebereich 10.95 bis 11.70 GHz

Stand: Februar 1988
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Fernsehen über Satellit

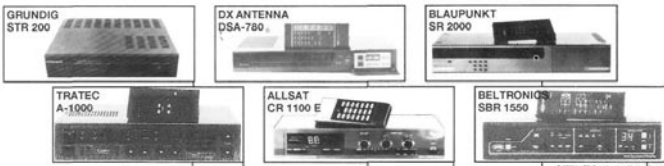
Satellit	Position Grad	Programm	Sendeland	Sprache	Frequenz GHz	Polarisation	Beam	Bitstrom	Videotext	Modul. MHz	Scrambl.	Empfang	Leistung dBW	Zeiten	Bemerkungen
INTELSAT VA-F11	27.5 W	MTV Europe	USA	Engl.	10.28	Horiz	West	PAL	Neg	6.80	-	Free	46	24	Videotext Begleitton Stereo
		Canal 10	Grönland	spanisch	10.98	Vertikal	Ost	PAL	Neg	7.02 & 7.20 (WEGENER-System)	-	Free	46	24	
		Grönland	Childers Channel	englisch	11.02	Horiz	West	PAL	Neg	6.80	-	Free	46	24	Kinship / Spillfilm Begleitton Stereo
		Arts Channel / Litology / Schwimmsport (Fernseh)	Grönland	englisch	11.59	Horiz	West	PAL	Neg	6.80	-	Free	46	24	Kinship / Hausrat / Sport Begleitton Stereo
		CNN International	USA	Engl.	11.15	Vertikal	Ost	PAL	Neg	7.02 & 7.20 (WEGENER-System)	-	Free	46	24	Nachrichten - Information Datenübertragung
		BBC 1/2	Grönland	englisch	11.18	Horiz	West	SAT-TEL	ja	6.80	-	Free	46	24	Videotext Kultur - Unterhaltung
		EBU-PVS	USA	Engl.	11.47	Vertikal	West	PAL	Neg	6.80	-	Free	46	24	Videotext Nachrichten - in Vorbereitung
		Anglovision	USA	Engl.	11.51	Vertikal	Ost	PAL	Neg	6.80	-	Free	46	24	Unterhaltung / Pflanzentum
		TV 2	Satelliten Information Service (TMS, Sharpen)	englisch	11.59	Horiz	West	B-MAC	-	ja	-	Free	46	24	Unterhaltung / Pflanzentum
INTELSAT VA-F10	21.5 W	Telespazio	Italien	Italien	10.98	Vertikal	West	PAL	Neg	6.85	-	Free	46	24	nur Testsendungen
INTELSAT V-F6	24.5 W	Telespazio	Italien	Italien	11.13	Vertikal	West	PAL	Neg	6.85	-	Free	46	24	nur Testsendungen
		Telespazio	Italien	Italien	11.17	Vertikal	West	PAL	Neg	6.85	-	Free	46	24	nur Testsendungen
GORZONT 12	14 West	TV Test	Schweden	russisch	11.51	Vertikal	Ost	SECAM	N	-	Free	46	24	nur Testsendungen	
INTELSAT V-F2	1 West	Norwegian Kanal 1	Norwegen	norwegisch	11.01	Horiz	West	PAL	Neg	6.80	-	Free	46	24	Unterhaltung - Kultur
		STV2	Schweden	schwedisch	11.13	Horiz	West	C-MAC	ja	-	Free	46	24	Unterhaltung - Kultur	
		TV1	Israel	hebräisch	11.19	Vertikal	Ost	PAL	Neg	6.80	-	Free	46	24	nur Testsendungen - DX
		TV2	Israel	hebräisch	11.56	Vertikal	Ost	PAL	Neg	6.80	-	Free	46	24	nur Testsendungen - DX
		TV Test	Norwegen	engl./norwegisch	11.47	Horiz	West	PAL	Neg	6.80	-	Free	46	24	nur Testsendungen
EUTELSAT I-F2	7 Ost	Worldnet	USA	englisch	11.59	Horiz	Ost	SECAM	N	-	Free	46	24	Radiogeo Progr. Information	
EUTELSAT I-F4	10 Ost	NRK	Norwegen	norwegisch	11.20	Vertikal	West	C-MAC	ja	-	Free	46	24	Unterhaltung - Kultur	
EUTELSAT I-F1	13 Ost	Teleklub	Schweiz	deutsch	10.98	Vertikal	West	PAL	Neg	6.50	-	Free	46	24	Spillfilm (Schallspur) Kabelformat
		RAL UNO	Italien	Italien	11.00	Horiz	West	PAL	Neg	6.85	-	Free	46	24	Unterhaltung - Kultur
		RTL plus	Luxemburg	deutsch	11.08	Vertikal	Ost	PAL	Neg	6.85	-	Free	46	24	Unterhaltung
		Filmnet	Belgien	engl./holl.	11.14	Vertikal	West	PAL	Pos	6.55	ja	Free	46	24	Spillfilm Begleitton schwedisch (Schallspur) Kabelformat
		SSAT	BRD	deutsch	11.17	Horiz	West	PAL	Neg	6.80	-	Free	46	24	Unterhaltung
		TMS	Frankreich	französisch	11.47	Horiz	West	PAL	Neg	6.85	-	Free	46	8	Unterhaltung - Kultur
		Worldnet	USA	englisch	11.48	Horiz	West	PAL	Neg	6.85	-	Free	46	24	Information
		SAT 1	BRD	deutsch	11.50	Vertikal	West	PAL	Neg	6.85	-	Free	46	24	Unterhaltung
		Sky Channel	Grönland	englisch	11.65	Horiz	West	PAL	Neg	6.85	-	Free	46	24	Unterhaltung
		Suoz Channel	Grönland	englisch	11.67	Vertikal	West	PAL	Neg	6.80	-	Free	46	24	Begleitton Stereo Unterhaltung - Kultur
INTELSAT VA-F12	60 Ost	SSAT	BRD	deutsch	10.97	Horiz	West	PAL	Neg	6.85	-	Free	46	24	Unterhaltung
		AFR-TV	USA/BRD	deutsch	10.99	Vertikal	Ost	B-MAC	-	ja	-	Free	46	24	Unterhaltung
		West 3	BRD	deutsch	11.01	Horiz	West	PAL	Neg	6.85	-	Free	46	24	Unterhaltung
		Tele 5	BRD	deutsch	11.13	Horiz	West	SECAM	N	-	Free	46	24	Unterhaltung	
		Bayerisches Fern	BRD	deutsch	11.17	Horiz	West	PAL	Neg	6.85	-	Free	46	24	Unterhaltung
		Emis Plus	BRD	deutsch	11.45	Vertikal	West	PAL	Neg	6.85	-	Free	46	24	Unterhaltung
		Europa IV	BRD	deutsch	11.00	Horiz	West	PAL	Neg	6.85	-	Free	46	24	Information
		IRB TV2	Iran	farsi	10.99	Vertikal	West	PAL	Neg	6.80	-	Free	46	24	nur Testsendungen - DX
		IRB TV1	Iran	farsi	11.15	Vertikal	West	PAL	Neg	6.80	-	Free	46	24	Kultur - DX
INTELSAT V-F5	63 Ost	AFRITS-E2	USA	englisch	11.47	Horiz	West	NTSC	Neg	6.80	-	Free	46	24	Unterhaltung - DX
INTELSAT V-F7	66 Ost	TRT 1	Türkei	türkisch	11.85	Horiz	West	PAL	Neg	6.80	-	Free	43	24	Unterhaltung - DX
		TRT 2	Türkei	türkisch	11.88	Horiz	West	PAL	Neg	6.80	-	Free	43	24	Unterhaltung - Testsendung - DX

Zusammengestellt nach Empfangsmessungen von PROSAT Projektberatung Satellitenempfang. © 1988 by PROSAT
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Radio über Satellit

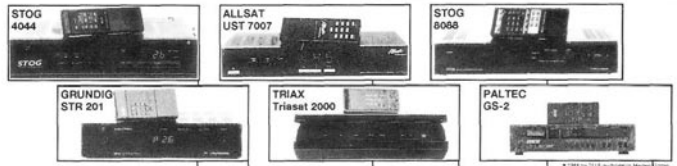
Satellit	Position Grad	Programm	Sendeland	Sprache	Frequenz GHz	Polarisation	Beam	TONorm	TONorm	Scram	Empfang	Leistung dBW	Zeiten	Bemerkungen
INTELSAT VA-F11	27.5 W	BBC Worldserv.	Grönland	englisch	11.18	Horiz	West	WEGENER	7.20	-	Free	46	24	Mono // Kurzweile
INTELSAT V-F2	1 West	BBC Worldserv.	Grönland	diverse	11.18	Horiz	West	WEGENER	7.20	-	Free	46	24	Mono - Auslandsprogramme
INTELSAT V-F4	10 Ost	NRK P1	Norwegen	norwegisch	11.20	Vertikal	West	Digital/MAC	-	-	Free	46	24	Landprogramm Stereo
EUTELSAT I-F1	13 Ost	Radio Luxemburg	Luxemburg	deutsch	11.08	Vertikal	Ost	WEGENER	7.02 & 7.20	-	Free	46	24	Stereo
		Radio Luxemburg	Luxemburg	deutsch	11.14	Vertikal	Ost	WEGENER	7.02 & 7.20	-	Free	46	24	Stereo
		Cable One	Niederl.	englisch	11.17	Horizontal	West	WEGENER	7.02 & 8.10	-	Free	46	24	Testsendungen
		Voice of America	USA	englisch	11.50	Vertikal	West	WEGENER	7.02 & 8.10	-	Free	46	24	Stereo
		BBC Worldserv.	Grönland	englisch	11.67	Vertikal	West	WEGENER	7.38	-	Free	46	24	Mono // Kurzweile
		BBC Worldserv.	Grönland	diverse	11.87	Vertikal	West	WEGENER	7.58	-	Free	46	24	Mono - Auslandsprogramme
INTELSAT VA-F12	60 Ost	Deutscherfunk	BRD	deutsch	11.01	Horiz	West	WEGENER	7.02 & 7.20	-	Free	46	24	Stereo
		Radio Media	BRD	deutsch	11.17	Horizontal	West	WEGENER	7.02 & 7.20	-	Free	46	24	Stereo
		Digital Test	BRD	deutsch	11.45	Vertikal	Ost	Digital/MAC	-	-	Free	46	24	DX - Testsendung
INTELSAT V-F5	63 Ost	IRB Radio 2	Iran	farsi	10.99	Vertikal	West	Standard	6.18	-	Free	46	24	Testsendungen - DX
		IRB Radio 1	Iran	farsi	11.17	Vertikal	West	Standard	6.18	-	Free	46	24	Landprogramm - DX

Satelliten Receiver



Hersteller/Importeur Gerätebezeichnung ZZF-Nummer Fernbedienungsfunktionen Kanalwahl Lautstärke Mute-Taste Tonfrequenz Einstellung Skew (Polarizer) Scanning (Frequenz) Programmdurchlauf Drehrichtsch (Aktuator) Steuerung Videorecorder Berücksichtigung Programmliste Beliefung vorprogrammierte Speicher Polarisationsrelaisanschluß Polareinschluß Zusatzgerät über Treppensp. Feldstärke Meßung, (AGC) Feldstärke Meßung, (AGC) Frequenzzeige Einheit Automatischer Scanner AFC-Schalter Clamp-Schalter Fernbedienung schaltbar Fernspeisung Video-Invers-Schalter Tonträgerfrequenz Tonfrequenzbereich Stereo, Zweiton Audio Schmal, Empfang Ton Deusch, (Entzerrung) Block-ZF Eingang (1, 2Z) 2. Zwischenfrequenz 2. ZF Bandbreite Hub-Anpassung Breitband Ausgang MAC Deemphasie Video Ausgang Audio Ausgang Mono Audio Ausgang Stereo Video/Audio Ausgang (AV) SCART Ausgang UHF Modulationsausgang Antennen durchschleifung Testblögenenerator ASTRA kompatibel DSS kompatibel Bedienungseinführung Textbericht abgedruckt in TESTBEREICH Empfindlichkeit Bildqualität Tonqualität Mono Tonqualität Stereo/Zweiton AFC Wirkung 2. ZF Bandbreitenreduzier. Bedienungskomfort Kurzschlüssel Fernsp. Zustand nach Netzausfall Einsatzmöglichkeiten Bereitstellung des Testger. TELE-satellit Referenz. ca Preis Bezugsquellenverzeichnis	GRUNDIG STR 200 A 600 019	TRATEC A-1000 A 676 022 US	DX ANTENNA DSA-780 A 676 011 US	ALLSAT CR 1100 E A 676 007 US	BLAUPUNKT SR 2000 A 607 542 U	BELTRONICS SBR 1550 A 676 002 U
Kanalwahl	ja	ja - Fein	ja	Frequenzwahl	ja	Auf/Ab
Lautstärke	ja	ja	ja	ja	ja	ja
Mute-Taste	ja	ja	ja	ja	ja	ja
Tonfrequenz Einstellung	ja	ja	ja	ja	ja	ja
Skew (Polarizer)	ja	ja	ja	ja	ja	ja
Scanning (Frequenz)	ja	ja	ja	ja	ja	ja
Programmdurchlauf	ja	ja	ja	man. + autom.	ja	ja
Drehrichtsch (Aktuator)	ja	ja	ja	ja	ja	manuell
Steuerung Videorecorder	ja	ja	ja	ja	ja	ja
Berücksichtigung	ja	ja	ja	ja	ja	ja
Programmliste	29	29	29	36	36	36
Beliefung	frei beliebig	frei beliebig	frei beliebig	fest belegbar	frei beliebig	frei belegbar
vorprogrammierte Speicher	ja	ja	ja	ja	ja	ja
Polarisationsrelaisanschluß	ja	ja	ja	ja	ja	ja
Polareinschluß	ja	ja	ja	ja	ja	ja
Zusatzgerät über Treppensp.	ja	ja	ja	ja	ja	ja
Feldstärke Meßung, (AGC)	ja	ja	ja	ja	ja	ja
Feldstärke Meßung, (AGC)	ja	ja	ja	ja	ja	ja
Frequenzzeige	ja	ja	ja	ja	ja	ja
Einheit	von 00 bis 99	von 00 bis 99	von 00 bis 99	von 01 bis 99	von 00 bis 99	von 00-00, 00-00
Automatischer Scanner	ja	ja	ja	ja	ja	ja
AFC-Schalter	ja	ja	ja	ja	ja	ja
Clamp-Schalter	ja	ja	ja	ja	ja	ja
Fernbedienung schaltbar	ja	ja	ja	ja	ja	ja
Fernspeisung	-15 Volt	-15 Volt	-15 Volt	-15 Volt	-15 Volt	-15 Volt
Video-Invers-Schalter	ja	ja	ja	ja	ja	ja
Tonträgerfrequenz	programmierbar	programmierbar	programmierbar	manuell	programmierbar	programmierbar
Tonfrequenzbereich	6,5-6,65, 5,8	5 bis 8 MHz	5 bis 8 MHz	5 bis 8 MHz	5 bis 8 MHz	5 bis 8,5 MHz
Stereo, Zweiton	ja	ja	ja	ja	ja	ja
Audio Schmal, Empfang	50-75	50-75	50-75	50-75	50-75	50-75
Ton Deusch, (Entzerrung)	2 x BNC 75 Ohm	2 x BNC 75 Ohm	2 x BNC 75 Ohm	2 x IEC 75 Ohm	2 x IEC 75 Ohm	2 x IEC 75 Ohm
Block-ZF Eingang (1, 2Z)	480 MHz	480 MHz	480 MHz	480 MHz	480 MHz	480 MHz
2. Zwischenfrequenz	fest 27 MHz	fest 27 MHz	fest 27 MHz	fest 27 MHz	fest 27 MHz	fest 27 MHz
2. ZF Bandbreite	2-stufig	2-stufig	2-stufig	2-stufig	2-stufig	2-stufig
Hub-Anpassung	ja	ja	ja	ja	ja	ja
Breitband Ausgang	BNC	BNC	BNC	BNC	BNC	BNC
MAC Deemphasie	ja	ja	ja	ja	ja	ja
Video Ausgang	SCART	SCART	SCART	SCART	SCART	SCART
Audio Ausgang Mono	nicht geprüft	nicht geprüft	nicht geprüft	nicht geprüft	nicht geprüft	nicht geprüft
Audio Ausgang Stereo	Cinch	Cinch	Cinch	2 x Cinch	2 x Cinch	2 x Cinch
Video/Audio Ausgang (AV)	DN-AV	DN-AV	DN-AV	2 x SCART	2 x SCART	2 x SCART
SCART Ausgang	2 x SCART	2 x SCART	2 x SCART	2 x SCART	2 x SCART	2 x SCART
UHF Modulationsausgang	IEC	IEC	IEC	IEC	IEC	IEC
Antennen durchschleifung	ja	ja	ja	ja	ja	ja
Testblögenenerator	ja	ja	ja	ja	ja	ja
ASTRA kompatibel	kompatibel	kompatibel	kompatibel	kompatibel	kompatibel	kompatibel
DSS kompatibel	mit MAC-Decod	mit MAC-Decod	mit MAC-Decod	mit MAC-Decod	mit MAC-Decod	mit MAC-Decod
Bedienungseinführung	in deutsch + engl	in deutsch + engl	in deutsch + engl	in deutsch + engl	in deutsch + engl	in deutsch + engl
Textbericht abgedruckt in	TELE-audio, 36	TELE-audio, 38	TELE-audio, 39	TELE-audio, 39	TELE-audio, 40	TELE-satellit 41
TESTBEREICH	ja	ja	ja	ja	ja	ja
Empfindlichkeit	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut
Bildqualität	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut
Tonqualität Mono	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut
Tonqualität Stereo/Zweiton	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut
AFC Wirkung	ja	ja	ja	ja	ja	ja
2. ZF Bandbreitenreduzier.	wirksam	wirksam	wirksam	wirksam	wirksam	wirksam
Bedienungskomfort	ja	ja	ja	ja	ja	ja
Kurzschlüssel Fernsp.	ja	ja	ja	ja	ja	ja
Zustand nach Netzausfall	ja	ja	ja	ja	ja	ja
Einsatzmöglichkeiten	ja	ja	ja	ja	ja	ja
Bereitstellung des Testger.	ja	ja	ja	ja	ja	ja
TELE-satellit Referenz.	ja	ja	ja	ja	ja	ja
ca Preis	DM 1200-	DM 1200-	DM 1200-	DM 1200-	DM 1200-	DM 1200-
Bezugsquellenverzeichnis	Grundig	Grundig	Grundig	Grundig	Grundig	Grundig

English Summary
Europe's 12 most commonly used satellite receivers. All have been tested. Ratings read every grade (1 = sehr gut), grade (1) and stars (1 = befriedigend). Rating categories include: Sensitivity (Empfindlichkeit), Picture Quality (Bildqualität), Sound Quality (Tonqualität) and Reliability (Zuverlässigkeit). New receivers appearing on Europe's market and having some impact will be added with future tables.



Hersteller/Importeur Gerätebezeichnung ZZF-Nummer Fernbedienungsfunktionen Kanalwahl Lautstärke Mute-Taste Tonfrequenz Einstellung Skew (Polarizer) Scanning (Frequenz) Programmdurchlauf Drehrichtsch (Aktuator) Steuerung Videorecorder Berücksichtigung Programmliste Beliefung vorprogrammierte Speicher Polarisationsrelaisanschluß Polareinschluß Zusatzgerät über Treppensp. Feldstärke Meßung, (AGC) Feldstärke Meßung, (AGC) Frequenzzeige Einheit Automatischer Scanner AFC-Schalter Clamp-Schalter Fernbedienung schaltbar Fernspeisung Video-Invers-Schalter Tonträgerfrequenz Tonfrequenzbereich Stereo, Zweiton Audio Schmal, Empfang Ton Deusch, (Entzerrung) Block-ZF Eingang (1, 2Z) 2. Zwischenfrequenz 2. ZF Bandbreite Hub-Anpassung Breitband Ausgang MAC Deemphasie Video Ausgang Audio Ausgang Mono Audio Ausgang Stereo Video/Audio Ausgang (AV) SCART Ausgang UHF Modulationsausgang Antennen durchschleifung Testblögenenerator ASTRA kompatibel DSS kompatibel Bedienungseinführung Textbericht abgedruckt in TESTBEREICH Empfindlichkeit Bildqualität Tonqualität Mono Tonqualität Stereo/Zweiton AFC Wirkung 2. ZF Bandbreitenreduzier. Bedienungskomfort Kurzschlüssel Fernsp. Zustand nach Netzausfall Einsatzmöglichkeiten Bereitstellung des Testger. TELE-satellit Referenz. ca Preis Bezugsquellenverzeichnis	STOG 4044 beantragt	ALLSAT UST 7007 A 676 132 V	STOG 8068 A 676 035 U	GRUNDIG STR 201 A 600 132 V	ALLSAT UST 7007 A 676 142 V	TRIAx TRIASET 2000 A 676 035 U	STOG 8068 A 676 035 U	PALTEC GS-2 beantragt
Kanalwahl	ja	ja	ja	ja	ja	ja	ja	ja
Lautstärke	ja	ja	ja	ja	ja	ja	ja	ja
Mute-Taste	ja	ja	ja	ja	ja	ja	ja	ja
Tonfrequenz Einstellung	ja	ja	ja	ja	ja	ja	ja	ja
Skew (Polarizer)	ja	ja	ja	ja	ja	ja	ja	ja
Scanning (Frequenz)	ja	ja	ja	ja	ja	ja	ja	ja
Programmdurchlauf	ja	ja	ja	ja	ja	ja	ja	ja
Drehrichtsch (Aktuator)	ja	ja	ja	ja	ja	ja	ja	ja
Steuerung Videorecorder	ja	ja	ja	ja	ja	ja	ja	ja
Berücksichtigung	ja	ja	ja	ja	ja	ja	ja	ja
Programmliste	36	36	36	36	36	36	36	36
Beliefung	frei beliebig	frei beliebig	frei beliebig	frei beliebig	frei beliebig	frei beliebig	frei beliebig	frei beliebig
vorprogrammierte Speicher	ja	ja	ja	ja	ja	ja	ja	ja
Polarisationsrelaisanschluß	ja	ja	ja	ja	ja	ja	ja	ja
Polareinschluß	ja	ja	ja	ja	ja	ja	ja	ja
Zusatzgerät über Treppensp.	ja	ja	ja	ja	ja	ja	ja	ja
Feldstärke Meßung, (AGC)	ja	ja	ja	ja	ja	ja	ja	ja
Feldstärke Meßung, (AGC)	ja	ja	ja	ja	ja	ja	ja	ja
Frequenzzeige	ja	ja	ja	ja	ja	ja	ja	ja
Einheit	von 00 bis 99	von 00 bis 99	von 00 bis 99	von 00 bis 99	von 00 bis 99	von 00 bis 99	von 00 bis 99	von 00 bis 99
Automatischer Scanner	ja	ja	ja	ja	ja	ja	ja	ja
AFC-Schalter	ja	ja	ja	ja	ja	ja	ja	ja
Clamp-Schalter	ja	ja	ja	ja	ja	ja	ja	ja
Fernbedienung schaltbar	ja	ja	ja	ja	ja	ja	ja	ja
Fernspeisung	-18 Volt	-18 Volt	-18 Volt	-18 Volt	-18 Volt	-18 Volt	-18 Volt	-18 Volt
Video-Invers-Schalter	ja	ja	ja	ja	ja	ja	ja	ja
Tonträgerfrequenz	programmierbar	programmierbar	programmierbar	manuell	programmierbar	programmierbar	programmierbar	programmierbar
Tonfrequenzbereich	5 bis 8,5 MHz	5 bis 8,5 MHz	5 bis 8,5 MHz	5 bis 8 MHz	5 bis 8,5 MHz	5 bis 8,5 MHz	5 bis 8,5 MHz	5 bis 8,5 MHz
Stereo, Zweiton	ja	ja	ja	ja	ja	ja	ja	ja
Audio Schmal, Empfang	50-75	50-75	50-75	50-75	50-75	50-75	50-75	50-75
Ton Deusch, (Entzerrung)	2 x IEC 75 Ohm	2 x IEC 75 Ohm	2 x IEC 75 Ohm	2 x IEC 75 Ohm	2 x IEC 75 Ohm	2 x IEC 75 Ohm	2 x IEC 75 Ohm	2 x IEC 75 Ohm
Block-ZF Eingang (1, 2Z)	480 MHz	480 MHz	480 MHz	480 MHz	480 MHz	480 MHz	480 MHz	480 MHz
2. Zwischenfrequenz	fest 27 MHz	fest 27 MHz	fest 27 MHz	fest 27 MHz	fest 27 MHz	fest 27 MHz	fest 27 MHz	fest 27 MHz
2. ZF Bandbreite	2-stufig	2-stufig	2-stufig	2-stufig	2-stufig	2-stufig	2-stufig	2-stufig
Hub-Anpassung	ja	ja	ja	ja	ja	ja	ja	ja
Breitband Ausgang	BNC	BNC	BNC	BNC	BNC	BNC	BNC	BNC
MAC Deemphasie	ja	ja	ja	ja	ja	ja	ja	ja
Video Ausgang	SCART	SCART	SCART	SCART	SCART	SCART	SCART	SCART
Audio Ausgang Mono	nicht geprüft	nicht geprüft	nicht geprüft	nicht geprüft	nicht geprüft	nicht geprüft	nicht geprüft	nicht geprüft
Audio Ausgang Stereo	Cinch	Cinch	Cinch	2 x Cinch	2 x Cinch	2 x Cinch	2 x Cinch	2 x Cinch
Video/Audio Ausgang (AV)	DN-AV	DN-AV	DN-AV	2 x SCART	2 x SCART	2 x SCART	2 x SCART	2 x SCART
SCART Ausgang	2 x SCART	2 x SCART	2 x SCART	2 x SCART	2 x SCART	2 x SCART	2 x SCART	2 x SCART
UHF Modulationsausgang	IEC	IEC	IEC	IEC	IEC	IEC	IEC	IEC
Antennen durchschleifung	ja	ja	ja	ja	ja	ja	ja	ja
Testblögenenerator	ja	ja	ja	ja	ja	ja	ja	ja
ASTRA kompatibel	mit Qualitätsst.	mit Qualitätsst.	mit Qualitätsst.	mit Qualitätsst.	mit Qualitätsst.	mit Qualitätsst.	mit Qualitätsst.	mit Qualitätsst.
DSS kompatibel	mit MAC-Decod	mit MAC-Decod	mit MAC-Decod	mit MAC-Decod	mit MAC-Decod	mit MAC-Decod	mit MAC-Decod	mit MAC-Decod
Bedienungseinführung	in deutsch + engl	in deutsch + engl	in deutsch + engl	in deutsch + engl	in deutsch + engl	in deutsch + engl	in deutsch + engl	in deutsch + engl
Textbericht abgedruckt in	TELE-sat. 42/43	TELE-sat. 42/43	TELE-sat. 42/43	TELE-sat. 42/43	TELE-sat. 42/43	TELE-sat. 42/43	TELE-sat. 42/43	TELE-sat. 42/43
TESTBEREICH	ja	ja	ja	ja	ja	ja	ja	ja
Empfindlichkeit	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut
Bildqualität	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut
Tonqualität Mono	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut
Tonqualität Stereo/Zweiton	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut	sehr gut
AFC Wirkung	ja	ja	ja	ja	ja	ja	ja	ja
2. ZF Bandbreitenreduzier.	wirksam	wirksam	wirksam	wirksam	wirksam	wirksam	wirksam	wirksam
Bedienungskomfort	ja	ja	ja	ja	ja	ja	ja	ja
Kurzschlüssel Fernsp.	ja	ja	ja	ja	ja	ja	ja	ja
Zustand nach Netzausfall	ja	ja	ja	ja	ja	ja	ja	ja
Einsatzmöglichkeiten	ja	ja	ja	ja	ja	ja	ja	ja
Bereitstellung des Testger.	ja	ja	ja	ja	ja	ja	ja	ja
TELE-satellit Referenz.	ja	ja	ja	ja	ja	ja	ja	ja
ca Preis	DM 1200-	DM 1200-	DM 1200-	DM 1200-	DM 1200-	DM 1200-	DM 1200-	DM 1200-
Bezugsquellenverzeichnis	Stog	Stog	Stog	Grundig	Stog	Stog	Stog	Stog

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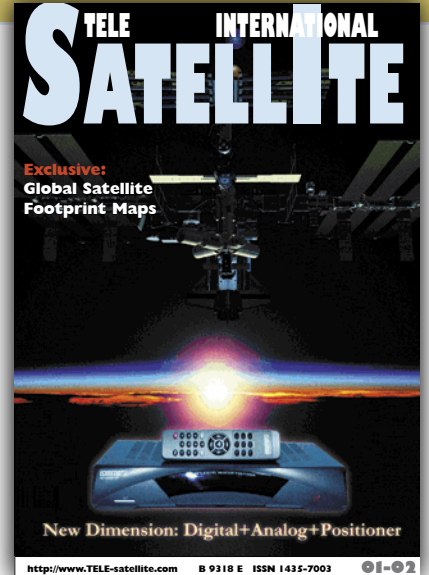
Edited by
Alexander Wiese

Echostar AD-2000 IP

So far, we have seen a reasonable amount of integrated analogue and digital receivers, one might call them universal receivers, and even with built-in positioners. But although the hardware often is comparable, the software controlling it is the most important issue. Whenever the software is of poor quality you can forget it. The box will crash, you cannot set it up the way you like, etc. These and many more flaws can make a receiver almost unusable. With this in mind, we started to look at the Echostar AD-2000IP. For over two weeks we have tested it in our labs and it was with a lot of regret that we had to send it back.

10 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 02/1999



Your first impression won't be that it is a superb receiver. It looks a little bit ordinary and does not have the high-tech looks Echostar's famous LT-8700 had. On the contrary, with only a four-digit display on the front you may not expect too much hi-tech in the box. But to start with, the display needs four figures because it can store up to 2.900 digital channels (1.500 for TV/1.400 for radio) plus 700 analogue ones. Its integrated positioner can cope with up to 50 satellite positions. Behind a coverlid there are two buttons for channel up and down and a card slot which may do its job in later versions. The receiver we tested did not have a conditional access interface.

Drake ESR 324 Earth Station Receiver

You don't know the ESR 324? Well, don't panic — it's not like you've missed the latest innovation in digital satellite technology. The ESR is a direct import from the U.S., a kind of 'first cry' of satellite reception technology. I was actually bargain-hunting for a digital receiver to use in combination with Echostar's DISH digital package when I discovered the ESR in a small country town somewhere in Montana. The unit was built in 1984 and set me back twenty bucks. Of course I knew that I would hardly be able to use this relic with my existing satellite system, but I was simply curious to find out how a 14 year old receiver would handle present-day satellite services. The first thing you notice about the ESR 324 is its weight. Used to light-weight plastic boxes the ESR 324's robust metal chassis has survived 14 years of doubtlessly heavy usage without any flaws

whatsoever. The 110 volt power unit contributed its share to the total weight of the unit. All control buttons are on the unit's front panel since there is no remote control available for the ESR 324 (after all, I'm travelling down the time tunnel all

the way to 1984). Next to the main power switch there is a scan button and two rotary switches to tune in the selected channel. It is not possible to enter a frequency directly (contrary to European products), neither is there such a thing as a program-store menu. In this respect not much has changed since the 1950s, as a matter of fact. Some may remember the rotary switches on television sets at the onset of the television age: you simply turned the knob into one direction or the other until a channel appeared on the screen. Some budget TV sets in North America still work that way even though Scan Up and Scan Down buttons on the remote control have long replaced rotary switches.

American satellites broadcast their signals according to a standardised channel grid. There are twelve channels each on the vertical and horizontal polarisation plane. Most American satellite receivers still come with a 500 MHz tuner used to scan the C-band between 3.7 and 4.2 GHz and the Ku-band between 11.7 and 12.2 GHz. That way only one control knob on the Drake ESR 324 is enough to use all the bandwidth available on U.S. satellites. The selected transponder is displayed on the front panel and a fine-tuning switch covers all the range between two channels. An additional switch is used to control the mechanic polariser. However a per-



manent polarisation can also be selected with the polarisation switch.

Once the channel is selected and tuned we have to adjust the audio parameters. With the flip of switch the standard frequency of 6.80 MHz can be selected, while a rotary switch allows the scanning of a range that must extend from 2 to 10 MHz (my estimate). Needless to say that that stereo sound was not a standard feature in 1984. On the back of the unit there is a switch that is used to choose either the C or the Ku band.

**MSK 33
Measuring QPSK and QAM**

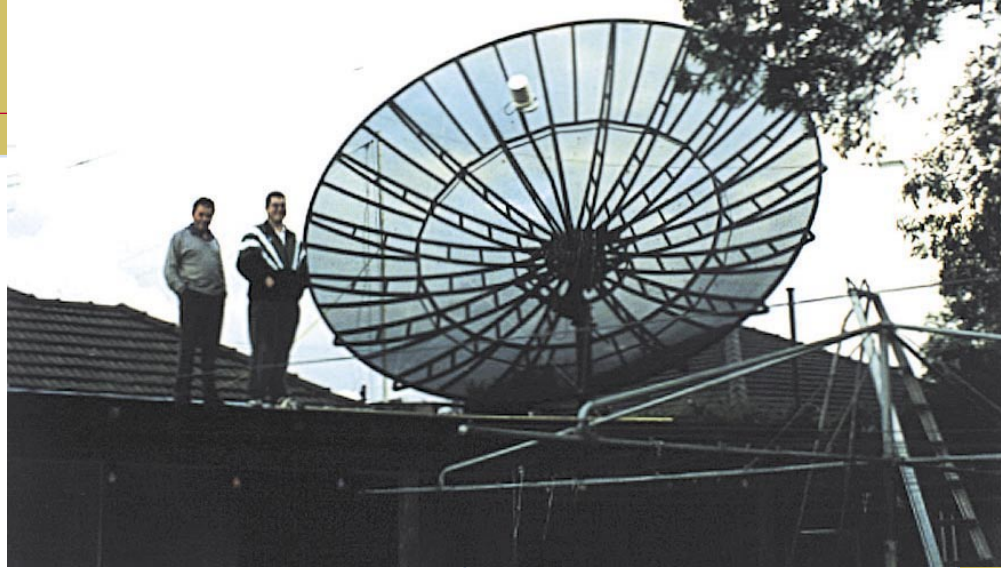
Good measuring equipment can always be recognised by its size and even more by its weight. You will see most professional engineers carrying around a heavy case. But out there, up on the roof, the heavier the tool to perfectly align the dish, the more dangerous it becomes for the one who is doing the job. Carrying around heavy stuff



on the roof of a house is not really sensible. The weight of those measuring instruments comes from the built-in cathode ray tube. Although most of the times still in black and white, the power requirements are high, increasing the weight of the batteries. Some use LC displays but most of the time, they also come with tiny buttons and a display that's hardly readable in bright sunshine. The new MSK 33 from Grundig and Kathrein weighs only 6 kg. Not very light-weighted but still a much better weight compared to the competition. It offers on-the-fly measuring and analysing digital signals, printing, LCD display, battery and power adapter. And investing in this measuring tool is a secure investment for the future, since it is built on a modular basis, making it possible to swap certain modules and upgrade to newer technologies. You might, for instance, later replace the MPEG II 4:2:0 board with an MPEG II 4:2:2 board. Many other tools can be thrown away as garbage after a few years, not the MSK 33. It will keep as valuable as it was even when newer technologies come around. The MSK 33 can also be upgraded with a graphic module making it the MSK 33/G, or the MSK 33/Q with a QPSK/QAM module.

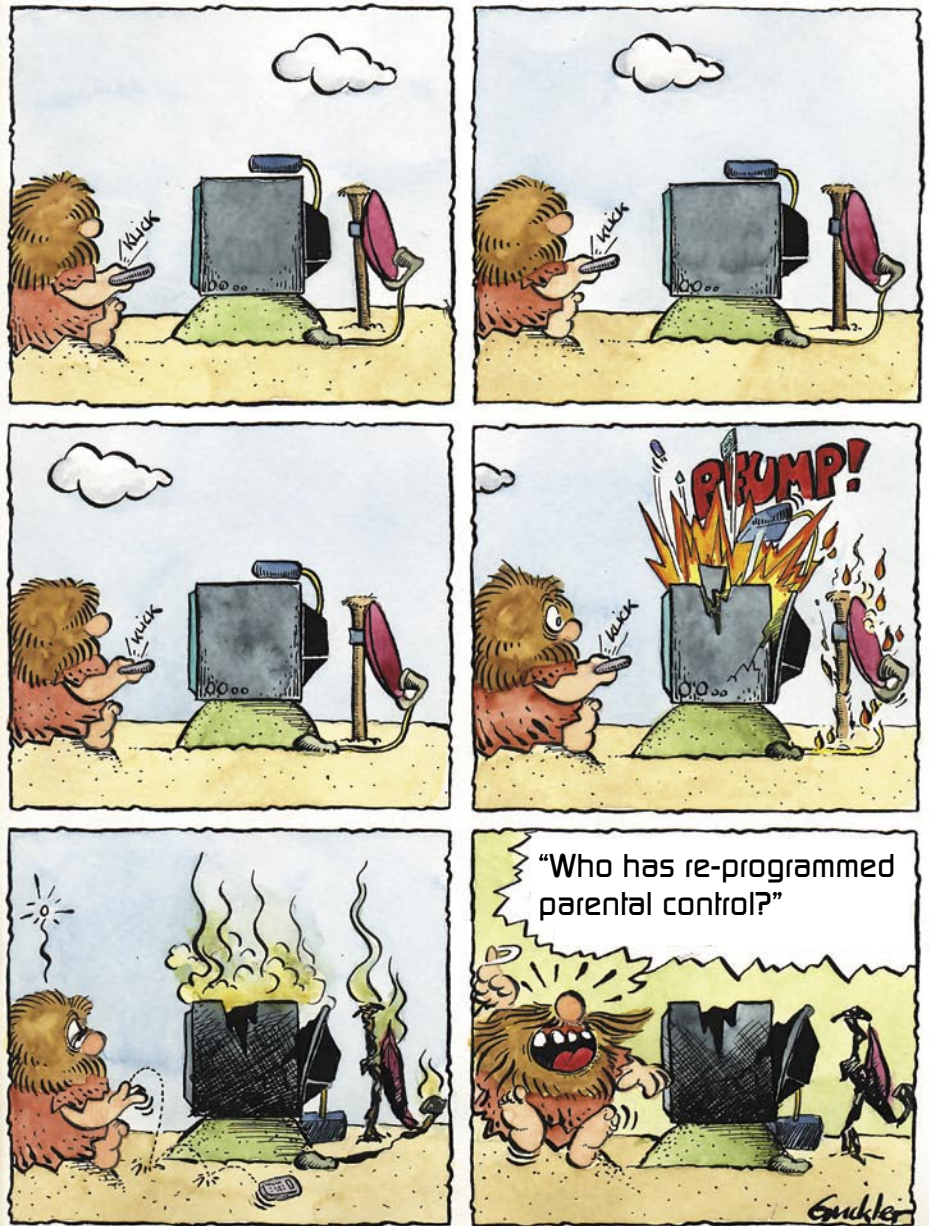
Australian Satellite DXer Bevin Boden

I attended a radio convention at Mt Gambier South Australia about three years ago. A fellow ham had a display of satellite TV on 12 GHz. The analogue receiver was fed by a 1.8 metre solid dish which I learnt later was for sale. Well, for A\$300 I made the dish and LNB mine. I was able to buy a Panasat analogue receiver for another A\$300, and when the convention was over I put this dish on the roof of the station wagon and headed for Adelaide 300 kilometres north. When I stopped to get petrol I was asked what it was that was strapped to the roof? Standard answer: a large wok as used for making lots of Chinese meals at charity functions. Oh, what a good idea, was the reply. We Australians are odd. I might add I also bought a C band LNB and polarotor as well because I knew I would get a little bored with one satellite and a couple of feeds all my life.



When I arrived home, it was up on the roof to set the dish up and watch a new world out there. News feeds, the odd movie and series transmitted for regional stations to record for later transmission and some sport. This enthusiasm lasted about a week. Time to make a couple of arms and mount up to look at C band. The Indonesian and Chinese

stations opened my eyes more than anything and I think any new enthusiast will tell you they get a tingly feeling just looking at all the life being lived by people out there. Your knowledge of the world immediately expands and you become familiar with various time zones around the world.



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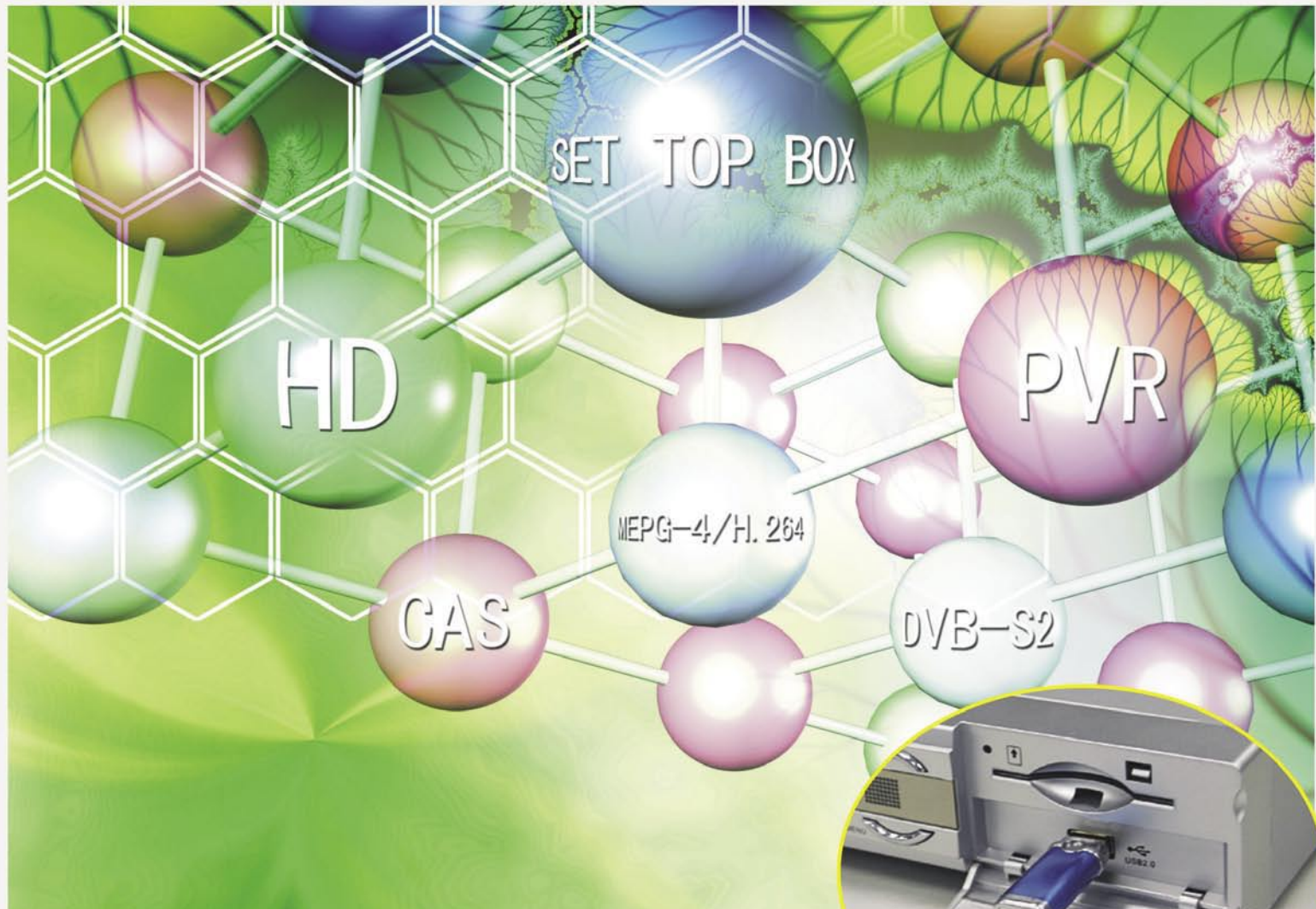


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