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Прием сигналов из Америки со спутника на испанском острове Тенерифе

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Den multimediala världen hos NanoXX

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Technomate

The New!

TM-5000 Super Series

with USB PVR for Recording



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- ✓ 10,000 Channel Memory
- ✓ Component Output (YPbPr)
- ✓ Super Sensitive Tuner
- ✓ Very Fast Blind Search
- ✓ Based on 2008 What Satellite Magazine's Best Enthusiast Receiver

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- ✓ Pause Live TV by Timeshift via USB 2.0
- ✓ Forward/Rewind Recordings
- ✓ USB 2.0 for Software Download/Upload, MP3 & JPEG Playback
- ✓ 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)

TM-5200 D USB
super

Free-To-Air Satellite Receiver

TM-5300 D+ USB
super

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
- ✓ 2x USB 2.0 Ports (Front + Rear)
- ✓ Very Fast & Detailed Hardware Blind Search
- ✓ RF Modulator
- ✓ eSATA
- ✓ Ethernet Communication Port

- 10,000 Channels
- Record Scrambled & FTA Channels by USB
- 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

VFD Display • 2 Common Interface • 1 Smart Card Reader • DVB-S/DVB-S2 • EPG • HDMI Digital Video & Audio Output • 1080i, 720p, 576i, 576p, 480i, 480p • USB 2.0 on the front panel for software upgrade

ABC  BIZNIS

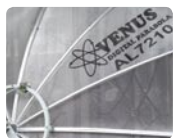
ABC BIZNIS Krušovská 4646, 955 01 Topoľčany, Slovakia
Tel.: +421 38 5313508, Fax: +421 38 5313508, E-mail: info@abcbiznis.sk, Web: www.abcbiznis.sk

www.opensat.info

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亲爱的读者们



中国的普通百姓现在开始免费接收卫星电视节目了,长久以来那里一直是地球上最后一个神秘的地方。但是去年发生了很大的变化,据介绍,个体的卫星接收被允许了,这都源于中国的直播卫星。这意味着卫星接收技术要引入到一个巨大的消费市场里。但是,中国决定开发自己的全新数字标准:这就是ABS,在本期杂志里您可以看到相关的介绍。

这也就是说,数字技术的标准还在增加。我记得多年以前,当世界上出现MPEG-2标准数字卫星电视节目的时候,我们在《国际卫星电视》杂志社里所进行的热烈讨论。那个时候,我们当中的很多人都担心将来世界上就会只有一种接收机,因为它要么是数字的,要么就不是。但是,我们都错了!您也看到了,数字技术的多样化甚至超越了我们那些模拟时代的梦想。

与此同时还发生了一些变化,在一个产品内可以兼容不同的技术标准。所以,我们也可以预料到DVB-S 2高清电视接收机也会容易地兼容标准的DVB-S 信号传输。也许过不了多久,DVB-S/S 2接收机就会兼容中国的ABS数字标准。希望那时会比现在出现更多的新理念、新标识和新品牌。

ABS的最大优势在于它是最近开发的,所以它会比DVB-S的效率更高。这是耐心和期待的结果。技术进步就意味着新的标准会向前迈进一步。无论如何,关注它是否以及如何赢得中国以外的市场会很有意思。作为限制,ABS需要授权,它主要是面向中国的厂家。他们会进一步降低成本,因为现在他们面对着中国这个巨大的市场。ABS 将成为DVB-S2强有力的竞争者,而且由于它具有较低的带宽要求,成本也会降低。

中国直播卫星的开播同时也对其他卫星公司敞开了中国的市场,包括那些已经在中国落地的那些企业。这些企业所要做的是继续努力,对于身处经济危机之中的他们而言,这是个好消息。所有信息都显示市场的空间潜力还很大,你只要在适当的时机、适当的市场,提供适当的产品。

您的亚历山大·维思

附: 我本月最喜欢的广播节目是来自19.2° E的Astra卫星上德国薄荷糖FM电台(12.633 H)。她连续播放着各种音乐,没有新闻,只是偶尔有一些介绍自身节目的广告。让她保持青春与活力吧!

广告

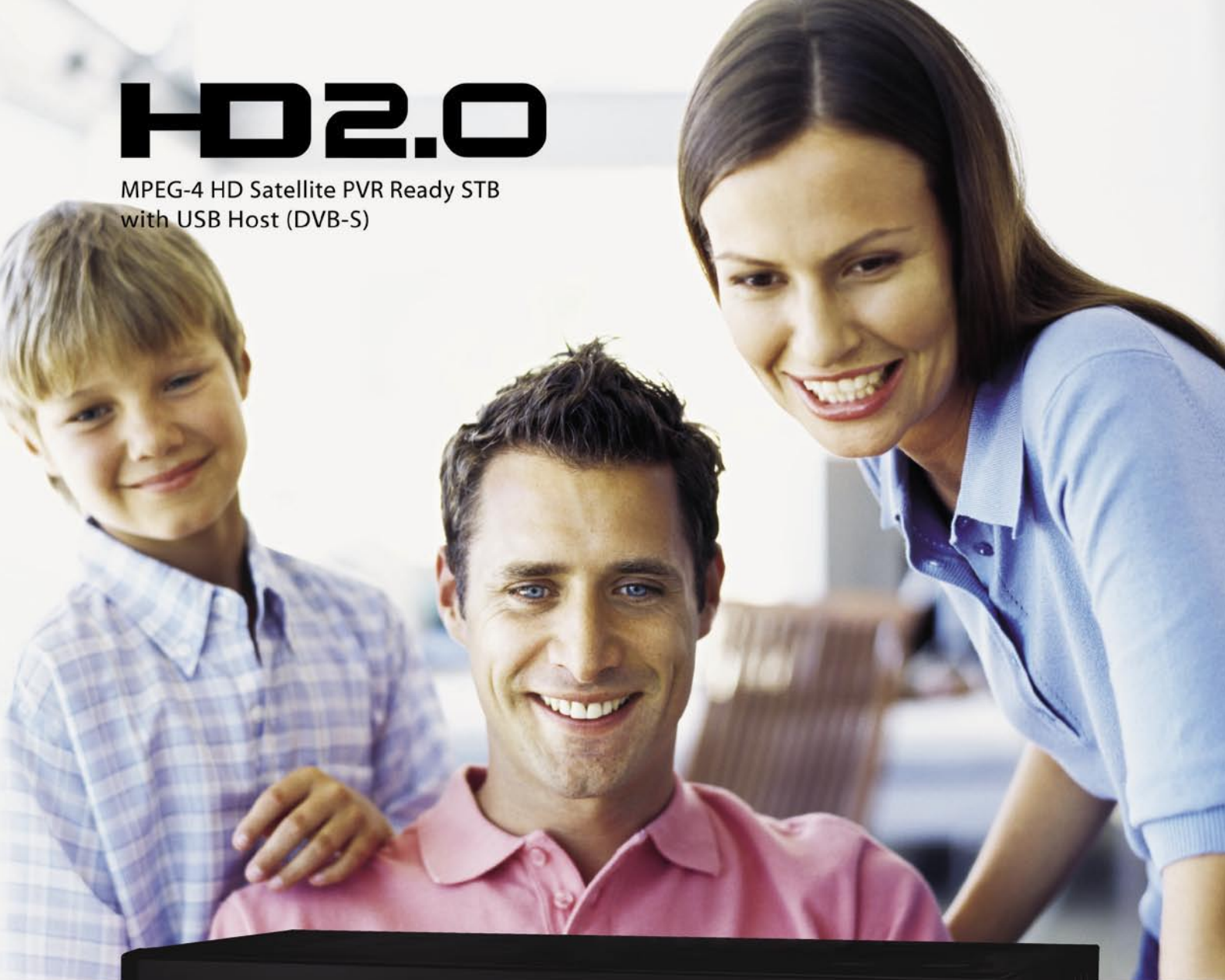
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HD2.0

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



ARION
TECHNOLOGY
Good Choice Better Life!
www.arion.co.kr/global



NEW TECHNOLOGIES – NOW ON STOCK



We are official **HUMAX** distributor

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.

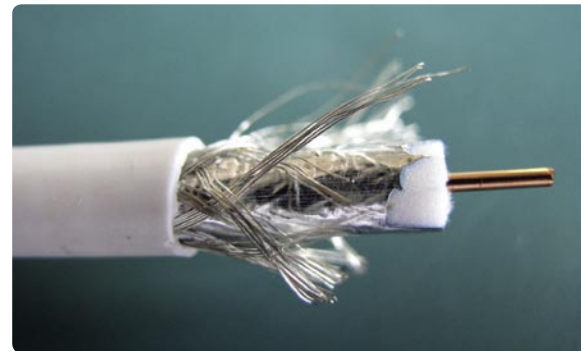
LNBs are subjected to the elements and their performance suffers if moisture cannot be kept outside. But even if your old LNB is still fine it's well worth getting a modern universal LNB with a low noise figure (0.3 dB), which will improve the threshold of your system in any case.



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)



INFOSAT INTERTRADE CO., LTD. - www.infosats.com
46/22 Moo.5 Tiwanon Rd., Banmai., Pakkred., Nonthaburi 11120 Thailand
Tel. (66) 2- 961-9161-3 Fax: (66) 2- 961-8587 E-mail: niran@infosats.com

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

更大更强

也许它名字不太好记，但是韩国生产厂家 Dizipia 公司出品的 DS4 H-9160 却以其体积和外形令人难忘。接收机乌黑发亮的机身有 43 cm 长、28 cm 宽、6 cm 高，厚厚的金属外壳显示出它重于同类。前面板上的荧光字符清晰地显示出频道的信息。

遥控器也大于通常，足有 24×5 cm 大。除了用于接收机之外，还能遥控电视机，根据手册的后面编码提示，我很快就用它轻松地搞定了我的电视。这次，我没有再到互联网上去费力地查找编码了！遥控器的布局设计得很明了，按下按键时会发出一声轻微的响声，而不像

其它遥控器那样得使劲按才能确保有效，这给了用户很大的信心。当按下按键的时候，接收机或电视就被打开。

前面板上另一个值得注意的功能是一个个小红灯坐标格。第一眼看到它们的时候以为是指示灯，但是实际上

是小按键，用它们可以操控接收机的大部分功能。前面板的右侧仓门后面，有两个 CI 插槽和一个 USB 接口。

后面板上则有我需要的所有插口。共有两只调谐器，每个都有一进一出的天线信号接口，如果只接驳一个天线馈源，第一个调谐器的

出口还可以接驳到另一个上的入口。随箱就附带了这样一段接驳的同轴电缆。HDMI 和 S/PDIF 接口可用于数字视频和音频，此外还有两个传统的欧插、复合视频和 RCA 立体声插口。另外，还各有一个 USB、RS232 和网络接口，虽然在手册中并没有任何信息来说明如何使用它们。

设置

借助手册上清晰无误的图解，很容易就可以连接好接收机。每一个接口都有图示



标明,每个步骤也都有明确的解释。所有容易引起混淆的重要地方都清楚地进行标示:如只接驳一个天线时要用随箱的同轴电缆连接两个调谐器接口、在录像时要换台只能在同一转发器内进行。两个 LNB 入口可以设定成接驳不同的卫星,因此,可以接驳两个独立的固定天线,而录像时则会限定换台。

我第一次开机的时候,会先直

接到安装向导里选择本地时间、时区和优选语言。屏幕上的画面和信息的语言选项很少,只有英语、德语和俄语。奇怪的是,在音频和字幕目录里的缺省值却不一样,选项为英语、德语和法语。

然后就是频道搜索的设置界面,在这里我要

选择进行第一次卫星搜索。它支持电动天线的 DiSEqC 和 USALS 协议。只要告诉接收机所在纬度和经度,它会轻松地计算出你想要接收卫星的位置。

接收机里预置的卫星目录令人印象非常深刻,大约有 170 个之多!我敢说没有

它没有的卫星,而如果在未来的天空上有新的卫星出现,可以编辑、增加或者删除卫星的名称。至于卫星的转发器频率信息也是最近更新的。

用它来搜索 ASTRA 2 卫星上的频道时,即好又快,只用了八分钟就全部搜索完毕。当频道完全存入存储器后,还可以进行进一步的编辑和排序。



DiZIP A

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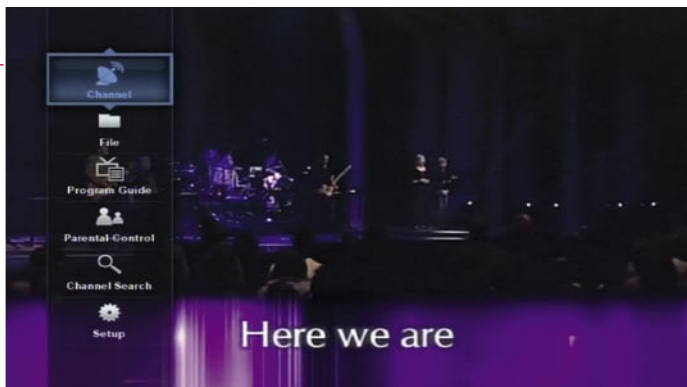
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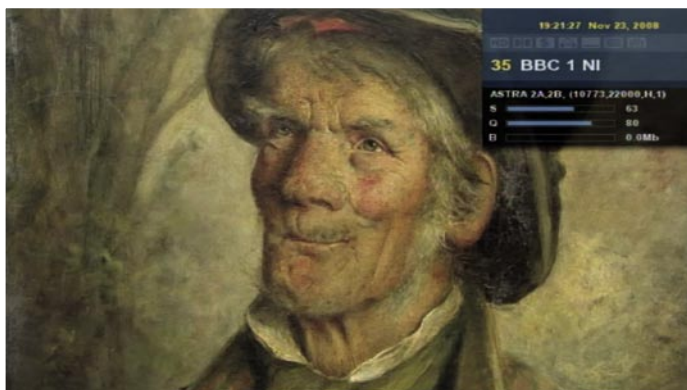
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DS4H-9160
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TWIN HDMI TUNER DOLBY DIGITAL USB 2.0



主菜单 |



频道信息 |

当要看电视的时候，只需按下“OK”按钮就可以访问目录上的所有频道了。这个目录可以按照字母顺序、付费或免费来分类，也可以按照频道号的最初状态进行排列。有一个很好用的功能是“变焦（缩放）”，就是可以用它来选择将频道目录全屏显示还是只占屏幕左边的一部分，而同时还可以从屏幕上看到电视图像。

在这里，具有所有的编辑和排列功能，这比专门设置一个编辑菜单界面要容易得多。根据需要，频道可以在目录里上下移动。喜欢频道的目录也可以根据需要来设置，而增加也很容易。

对于孩子们的收看问题，该机为父母提供了两种控制选择，除了传统的口令[密码]方式之外，还可以对喜欢频道的数量进行限制，并设置自动关机时间。这样就可以阻止小孩子们整天坐在电

视前面！还有一项选择就是限定他们收看某些节目的年龄，当然这完全有赖于节目供应商能够提供相应的年龄限制分类信息。

硬盘功能

由于高清电视广播需要大

量的数码流，所以高速码流数据的传输是必要的，该接收机用 SATA 接口取代了传统 IDE 接口。遗憾的是该机没有内置硬盘，但这给了我们一个借口，通过 USB 接口连接到硬盘上进行测试。

开始时我还不很自信，甚至还在想采用非常旧的办法，就是用 U 盘插到机器后面的 USB 接口，而实际上它近乎完美的表现（包括录制高清电视节目）证明了我的错误。正如期待的那样，图像很快就出现了。如果不是过分追求100%的完美，甚至可以用它一边观看一个高清频道，一边又通过 USB 接口录制另外一个节目。

外接硬盘使用标准的 FAT 32文件格式，这样直接再到电脑上备份和回放就可以很容易地进行了。接收机上的文件管理器会让任何

一个人都很容易地使用计算机来寻找文件，结构和文件夹也令人熟悉，甚至还能回到父母目录的“..”。

自动删除功能会在磁盘空间快用光的时候首先删除最早录制的节目。也是由于这种功能，令人烦恼的是有时候会造成重要记录的不必要损失。多亏还有一个很有用的选项来保护录像节目，免除了被偶然或自动删除的烦恼。录像的童锁功能也可以用口令[密码]来实现。

在看电视时也可以使用时间移动功能。暂停功能是必不可少的。通常还要用到快进或快退的功能。还有一个很受欢迎的功能是把录制的节目分成像 DVD 的章节一样，这样寻找起来就会非常容易，而不再花费很长时间。每段录制节目时间的长度标准为 30 分钟，当然最大也可以改成两小时。



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有一点遗憾的是缺少一些编辑功能。一般来说一些基本的编辑功能对于将某些录像节目用于商业等用途总是会有些帮助的,遗憾的是这款机器就没有。我是一名运动迷,过去时常使用的缓慢回放功能它却没有。

日常使用

虽然不像其它接收机那样直观,但是该机访问卫星、频道和接收机等菜单也很轻松。例如,当我进入到该机一会儿后,有时就会糊涂,按“返回”键却不能返回上个菜单!也许我该按下“退出”按键。相反,按下“退出”按键有时会像其所介绍的那样,它会完全退出系统菜单。

图像质量是高清接收机的一个重要指标,Dizipia 接收机的高清图像质量绝对是达到了预期。用高清模式收看标清图像时,会有鱼鳞状网纹,而使用 RGB 插口会对改善图像质量有一点好处。

在遥控器上有一个非常实

用的按键,用它来快速切换收看模式。这是一个源自于计算机世界的想法。在改变模式之后,接收机在屏幕上出现一个对话框,来让你确定你所见到的图像。缺省值是“否”,这样如果你想关掉一个不能观看的图像,只需按下“OK”键,它就恢复到之前的模式。它具有逐行和隔行模式,范围从 480 到 1080 线。

宽屏幕电视广播现在已经很常见了,这里看以看到一些实用功能。要在 4:3 的屏幕上观看宽屏幕节目,它有三种模式。相反,在一个 16:9 的屏幕上观看 4:3 的电视节目时既可以保留两侧的黑边,也可以对画面边缘进行扩展。在遥控器上还有一个特别的按键来在 16:9 和 4 :3 模式之间进行切换。

我只在用 EPG 时遇到一点困难,主要是它需要一个内置硬盘来储存数据。它包含了我想要的所有功能,而且都很出色。它既可以预置录制节目,也可以预置收看。在频道目录里,用蓝色



电视设置菜单 |



EPG |

的按键可以将 EPG 的内容在全屏或部分屏幕显示模式之间进行切换。录制的节目还可以在指定的时间内加上童锁。它也有传统的定时录制模式。

由于宽屏幕电视机的应用,日常的频道浏览会很轻松。一旦选定分类,或进入喜爱的频道目录里,浏览频道就很容易了。“返回”键在这里还有一种功能,就是按下它之后,会回到刚才观看的那个频道。它还具有图文电视功能,而遥控器上也设有专门的按键来直接进行

字幕和附加音频的读取。

对于实用付费电视系统的用户来说,它还有一个新奇的功能。通常,当录制完加密节目后,还必须要用一张有效的智能卡再来收看回放。但是它有一个特别的针对加密节目的功能。在你选择好预先设定的时间后,举例来说,当你睡熟的时候,接收机将开始录制并去掉加密限制。当然此时仍然需要一张有效的智能卡。

由于它具有两个 USB 接口,因而它可以轻易地将文



件从硬盘存放到 U 盘里。其它既可以欣赏 MP3 音频，也可以用在高清模式的大屏幕上浏览照片。

有速度限制器的跑车，其软件还没有完全开发出来。浏览菜单时有时会感到稍微有点麻烦，而不像其它 PVR 接收机那样直观。

总结

这是一款有着很强实力的接收机，它有许多接入选择，功能强大。而在使用一段时间之后，又确实觉得它好像用是一辆引擎上装

至于说优点，通过使用专门的功能键和 CI 模块，可以轻松地调整图像的尺寸和形状，从而能够获得良好的图像质量，这样日常的录像效果会更好。

专家的结论

+
双调谐器可以接驳各种类型的天馈系统并进行操控，完全支持宽屏幕和高清电视接收协议，可以通过网卡接口进行SW的升级和录制，可以同时录制两套节目，并可以对一套录制完的节目进行回放，直接进行时间移动，32位真彩色OSD，用户界面友好的菜单，支持Linux操作系统，支持1080p 视频协议



Andy Middleton
TELE-satellite
Test Center
UK

-
不是多数菜单都很直观，对录制节目不能进行编辑



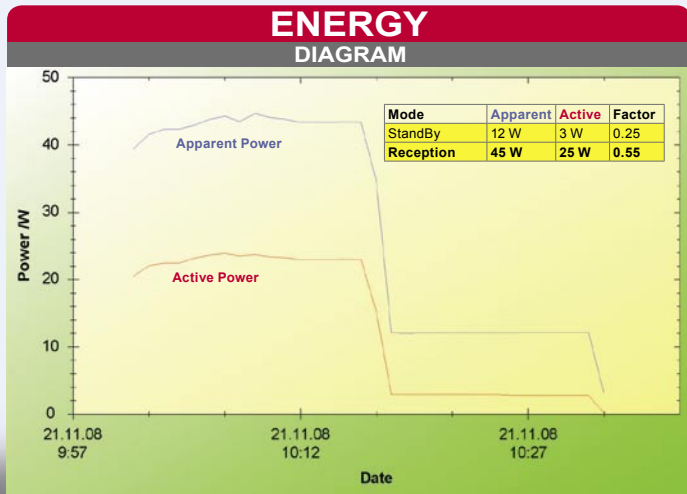
录像节目目录 |



录像节目回放 |

TECHNIC DATA

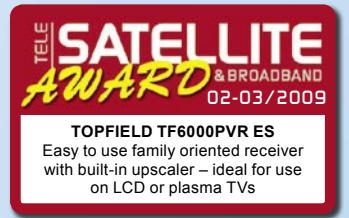
Manufacturer	Dizipia, Inc., 2nd Floor, Shinhan Bldg., 147-9 Garak-dong, Songpa-Gu, Seoul 138160, Korea
Tel	+82 (0)2 21 52 32 00
Fax	+82 (0)2 407 34 05
www	www.dizipia.com
email	info@dizipia.com
Model	DS4H-9160
Type	HDTV-Receiver with Scaler
Satellites	170+
SCPC compatible	Yes
USALS	Yes
DiSEqC	1.0/1.2/1.3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



Topfield TF6000PVR ES

美丽 内外兼修

高清电视已经开始进入人们的视野。但是，如果你看了 www.SatcoDX.com 上面的统计表，你就会对其现实感到失望：比如说，在 13° E 的 HOTBIRD 卫星上，与 1355 个 PAL 制标清电视频道相比，高清电视频道总计才有 29 个。当然这有许多原因，但是主要还是资金上的原因；带宽是要花钱的，而如果一个节目供应商已经在提供标清电视服务，那他们也不过是将高清电视作为一个附赠的项目。对于终端用户来说，即使有一台最新型的平板电视，那也只不过是一台大电视，节目的图像质量并没有提升，他收看的也仍然是标清频道。



韩国的生产厂家 Topfield 公司注意到了这一问题。他们新型的 TF6000 PVR ES 接收机提出了一个非常聪明的解决方案。这就是在其 TF6000 PVRE 型号的基础上，增加了面向那些对图像要求更高用户的功能，既增强型。

该增强型是在接收到信号后，加入了在光栅里已丢失的像素，这样就肯定增加了图像的清晰度。我们就是想要为这款接收机做一个完整的测试来了解其工作的原理。

当我们打开包装时注意到，TF6000 PVR ES 并不像我们预想的那么宽大。此前的



TF6000 PVRE 型足有 43 cm 宽，而 TF6000 PVR ES 型却只有 38 cm 宽。但是变小的尺寸丝毫没有影响到它的高雅。

前面板中心有一个非常容易读取的 VFD 字符显示窗；不用遥控器，旁边的三个按键可以用来操控接收机。音量控制和频道切换的四个按键位于银色的圆圈里面。它们同发出蓝光的待机按键相映成辉。

在右边的仓盖后面，可以看到两个付费电视的 CI 插槽。它们可以接收所有类型的加密节目，像是 Irdeto、Viaccess、Seca、Conax、Nagravision 还有 Cryptoworks。正如我们所期待的那样，TF6000 PVR ES 的后面板有多种插接口。除了两个一进一出的卫星调谐器插口之外，还会找一个 HDMI 接口、两个欧插接口、三个 RCA 音视频插口、一个 S 端子插口、一个光纤数字音频输出插口、一个 USB 2.0 接口，最后还少不了一个网络接口。虽然最近用得不多，但是通过 RS-232 接口，可以将

其与一台个人计算机相联。

随机带来的遥控器手感非常好，所有按键都布局便捷，标示清晰。和对接收机本身一样，我们也喜欢遥控器的设计。至于用户手册，一如对 Topfield 所期望的那样，编写得非常清楚，充分的图例回答了可能出现的任何问题，即使对于生手，也能让他很快地掌握这款使用起来并不复杂的接收机。

日常使用

第一次打开接收机电源之后，这款新型 Topfield 接收机就会显示出主菜单，并开

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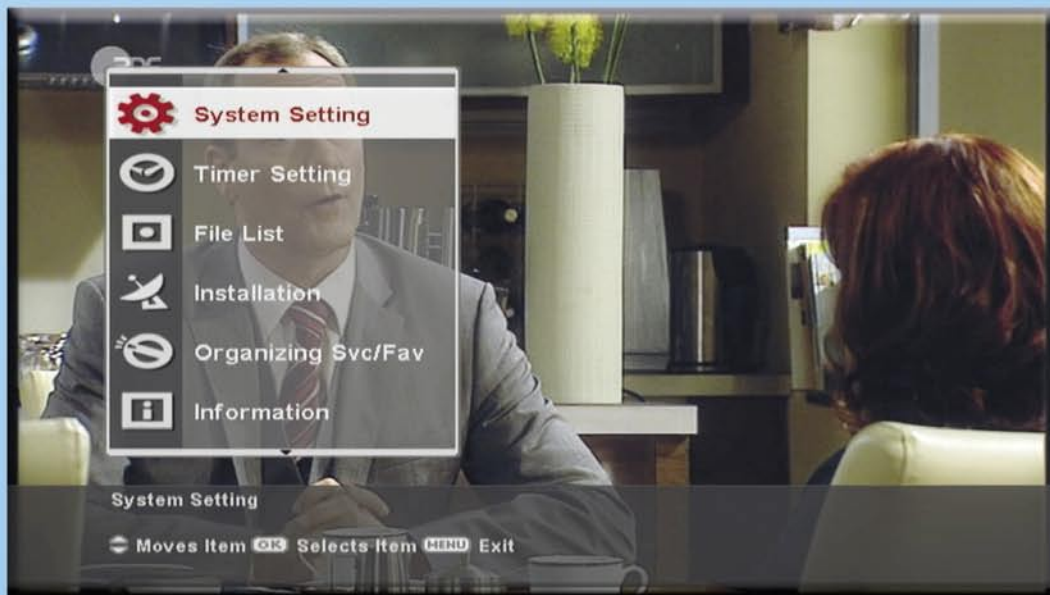
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Available online starting from 30 January 2009

始提示用户按照其特定的需要来设置接收机。在开始接收之前，要设置好匹配的天馈系统。菜单里没有安装向导，而事实上，因为 Topfield 的菜单结构非常具有逻辑性，即使是位初学者，也会很容易地上手。

首先需要在系统设置时选择 OSD 的语言。TF6000 PVR ES 可供的选择有：德语、英语、法语、西班牙语、阿拉伯语、希腊语、土耳其语、丹语麦、瑞典语、挪威语、荷兰语、波兰语、波斯语、芬兰语、捷克语和保加利亚语。语



TF6000 PVR ES 排列得非常好的主菜单。



言选择完毕之后，用户就会进入到一个单独的菜单路径。

和其它每款卫星接收机一样，TF6000 PVR ES 也可以通过卫星自动调整设定时间。与大部份机型不同的是，Topfield 还具备一些特殊的功能。举例来说，调整时间的信号源仅限于个别转发器的加密频道。遗憾的是，这一功能是必需的，这是考虑到许多节目供应商在其主要的直播位置以外并不能向接收机提供正确的当地时间信息。它还可以用一个按键来启动或者取消标准时间和夏令时间；这样你就不必再为与格林威治标准时间的时差而担忧了。当然，也可以手动调整时间和日期。TF6000 PVR ES 自身有一个实时的时钟，它甚至可以在断电之后继续保存正确时间，而其他的接收机则不一定会如此。它会在关机之后自动地启动定时录像。

由于内部功能的提升，

TF6000 PVR ES 可以与新型的平板电视机理想匹配。该接收机还具有 HDMI 接口，能够转换输出 576 p、720 p 或 1080 i 格式的电视信号。为了简化操作，用户可以使用遥控器上的一个专门按键直接进行调整，而不必在屏幕菜单的多重页面里进行繁琐的操作调整。

如果你仍然想要用欧插将这款新型的 Topfield 接收机连结到你的电视机上，你可以采用 RGB、CVBS、S 端子或 YUV 等方式。图像可以设定成 4:3 或 16:9 的格式。此外，显示模式也设置成用 PAL 制和 NTSC 制并以 16:9 或 4:3 的格式自动转换。这样，美国的电视机就可以很方便地接收欧洲的节目，反之亦然。也由于功能的提升，图像的尺寸也可在 +/- 20% 的范围内进行调整，以使任何电视机都能使用。

当所有的设置完成之后，

接收机就要与现有的天馈系统进行衔接了。这两个调谐器可以分别接入卫星信号，这是典型的应用方式。当然它们也可以共享同一根电缆。在第二种方式里，当用一个调谐器来录制节目的时候，另一个调谐器的使用就会受到限制。如果分别接入卫星信号，就不存在这个限制了。

新型的 Topfield 的目录里预置了欧洲、亚洲和美洲的 156 个卫星。虽然可以一一检查哪些卫星频道已经消失，但总的说目录里比较常用的参数还是最近更新的。

我们特别欣赏的是它能够设置为每个卫星提供多种方法。它预置有一些本振器频率 (LOF) 数值可供选择，而如果有需要也可以手动输入 LOF。这让你的接收机可以使用非标准的 LNB。它还支持所有的 DiSEqC 协议，从而可以接收到多个卫星位置。用 DiSEqC 1.0 可以同时接收四

个卫星，用 1.1 可以接收多焦点天线上的 16 个 LNB，而用 1.2 和 1.3 (USALS) 则可以控制电动极轴天线。

这些参数一旦设定完成，下一步就是要将接收机的 5000 个频道 (3500 个电视频道、1500 个广播频道) 记忆容量装满。要完成这项任务，不能仅仅依靠手动搜索来进行。当然，用自动搜索的方式来存贮转发器数据应该是最好的办法。也可以用手动输入 PID 的办法进行搜索。和其他机器的搜索方法一样，网络搜索也可以用于免费或加密频道。

接收机频道搜索速度之快也令人印象深刻：我们在测试搜索一个具有 100 多个转发器的卫星只用了差不多四分钟。不要忘了，TF6000 PVR ES 并不是高清电视接收机，因此不能接收任何 DVB-S2、MPEG4 或者 H2.64 信号。这款接收机所能做的就是接



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收普通的标清电视信号但却能以更好的图像质量提供给 LCD 或等离子电视机。

在对一个较大的直播卫星平台进行搜索之后,很可能出现这种情况,即频道目录被装满,但是用户并不对这数以百计的频道感兴趣,原因是很多是加密节目,看不了。基于这些理由,按照你所需要的方式来编辑频道目录就很重要了。而多年以来在大家看来 Topfield 一直擅长于此,TF6000 PVR ES 也毫不例外。频道目录里面的频道可以很容易地删除、重新命名、移动或者用一个 PIN 密码锁住,这样,小孩子就不能看到这个频道了。目录按照不同方法做一些分类,而比较常用的频道被放到一些不同的最喜爱频道目录里,这样,用户就能轻松地在遥控器上按下一个按钮直接观看了。

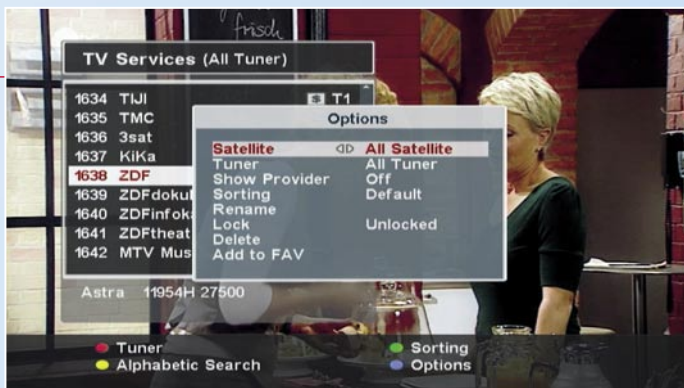
当所有的设置和搜索完成之后,用户就可以退出主菜单,而此时接收机就会播放目录中的第一个频道。当第一个频道出现在屏幕上时,还会暂时出现一个信息条,它会显示该频道的技术上参数及相关内容(DD 音频、字幕、图文电视、加密方式,等等),还有

关于正在播出节目的一些信息,当然,这些信息是由节目供应商提供的。在切换频道的时候,也会出现这个相同的信息条。

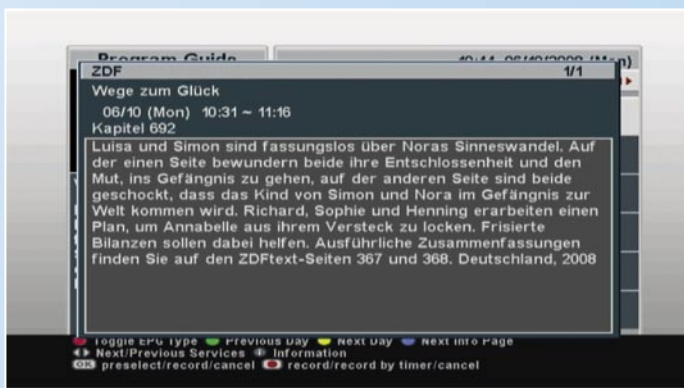
按下“信息”按钮,还会显示当前节目的更多信息。而“指南”按钮则会预览一星期内详细的节目信息。当然,前提是节目供应商提供这些信息。用户还可以选择两种显示模式。尤其实用的是从 EPG 上直接设定定时录制节目。全部操作只需用遥控器上的一个按钮,用它就可以进行录制了。

只需按下“OK”按钮,就可以看到 Topfield 的详细频道目录。有很多的排列方式和搜索方式可以让你很快找到想要的频道。如果需要的话,用户可以选择该频道用哪个调谐器来接收,也可以让接收机来选择。如果当时正在录制节目的时候,后者可能是更好的选择。频道之间的切换时间也很短,如果这两个频道不在相同的转发器上,切换时间大约在一秒,这是正常的速度。

Topfield 所用的调谐器灵敏度很好,在接收 28.2



频道目录兼有复合设置能力。|



扩展的EPG信息。|



信息条。|

° E 的 ASTRA 2D和 7° W 的 NILESAT 卫星上较弱的信号也没有任何问题。我们对接收机的 SCPC 处理能力也感到满意:它在锁定了符码率仅为 1.0Ms/秒的信号,并显示

出毫无干扰的图像。在我们的实验室里,并没有太多的接收机能够接收到 36° E 的 EUTELSAT 海洋卫星上符码率只有 1.0Ms/秒的 RSP 频道。



TF6000 PVR ES 还有一些其他的功能来更好地提升图像质量。在这个目录中还包含了种类繁多的定时录制功能（有按每周、每日、每个周日或者只在周末录制的功能），用这款接收机使用起来相当容易。它还有图文电视解码器等很多附加功能。

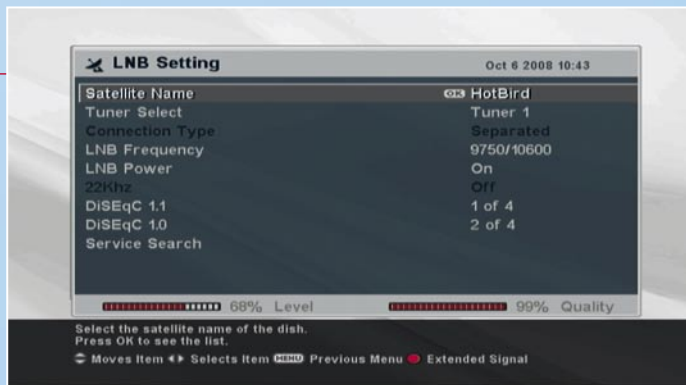
录像功能当然是最重要的功能之一。接收机可以用其内置硬盘上同时录制两个频道的节目，并且可以将它们完美地回放出来。由于还具有时间移动功能，可以在接电话的时候进行暂停。节目可以在停止之后重新从断点开始继续录制。书签功能也是一个非常实用的功能。可以用一个按键对一个特定的位置进行标记，这样可以在稍后很容易地找到。

后面板上的 USB 2.0 和网络接口可以用来与加装 Windows 操作系统的个人计算机连接。可以通过这两个接口将录制的节目从接收机传送到个人计算机上，举例来说，可以将其烧录在 DVD 碟片上。当然，数据也可以从另一个方向传送回来，例如，将 MP3 存储在接收机上后，就可以将 TF6000 PVR ES 变

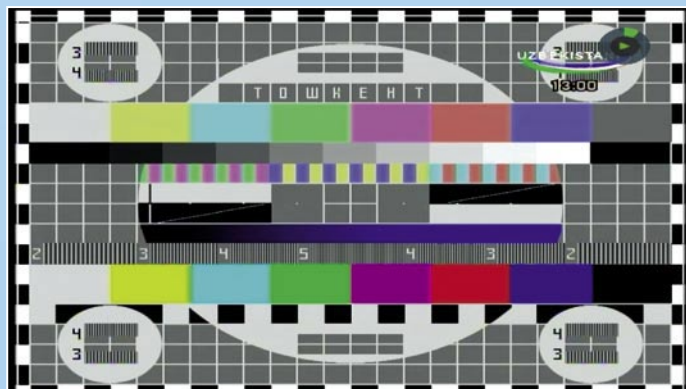
成一个 MP3 播放器。可以通过网络接口从网络和 FTP 服务器上对硬盘上的录像进行处理。甚至可以在个人计算机上直接设置定时录像。遗憾的是，使用网络接口的数据传输速率只有 1 MB/秒，这对于较长的录像来说下载时间会很长。由于 TF6000 PVR ES 支持 DHCP 协议，可以使用 DSL 解调器或路由器的连接配置。

接收机的画中画功能也相当实用。举例来说，当你正在收看一个频道时出现商业广告，可以用它来切换到下一个频道，或者是之前录制的节目上。而该频道就会出现在一个小窗口中。在商业广告结束时，只需用一个按键就可以迅速返回到原来的频道。

Topfield 接收机获得成功的另一个重要原因是它还具有 TAP 接口，它可以让用户将自己编制的软件上传到接收机上加以应用。TF6000 PVR ES 和其他机型一样，其硬件与 TF6000 PVRE 相似，几乎所有可以利用的 TAP 在新型的 TF6000 PVR ES 上都可以运行。我们测试了常用的 EPG 软件：3PG，看到曾广受赞誉的 Topfield EPG



LNB 设置。|



诸如40° E上EXPRESSAM1卫星的弱信号接收。|

软件在这款接收机中运行得很好，它可以在一个特定的时间自动搜集 EPG 信息，这样可使用户得到最佳的节目信息。

Topfield 在不断地改进他们的接收机，也提供了很多方法来更新软件。如：可以通过卫星，也可以经过网络接口从互联网上更新，也可以先从 Topfield 网站上下载到个人计算机上，再通过 USB 接口传送到接收机上。

最后，我们对这款加强型

接收机需要进行说明的是，它并不能将一个速率很低弱信号变成一个非常漂亮的高清图像。但是它能够改善图像质量，可以在 LCD 或者等离子电视机上再现出接近标准 80 cm 显像管电视机的图像水平。而一些以较高速率传送的标清频道节目在经过 Topfield 加强型的处理后，对于用户来说图像质量已接近高清水平。



专家的结论

+

TF6000 PVR ES 是一款使用便捷、界面友好的数字接收机。由于功能的提升,适用于LCD 或者等离子电视机,并会再现出更高质量的图像。录像功能也很实用,但你开始使用它的时候,定会爱不释手。



Thomas Haring
TELE-satellite
Test Center
Austria

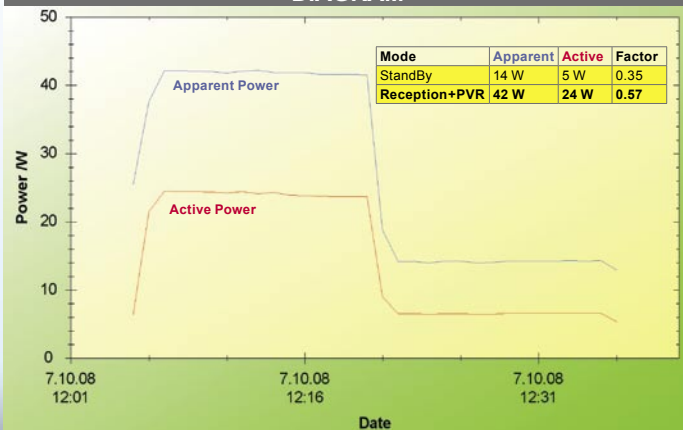
-

5000 个频道的记忆容量稍微少些。而后面板上若要有个主电源开关则就更好了。

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



头15分钟: 频道切换, 录制节目, 回放, 等等。后15分钟: 待机。



用于EPG 的3GP TAP 软件。|



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频道目录编辑器 |



标准的EPG。



ANGA Cable

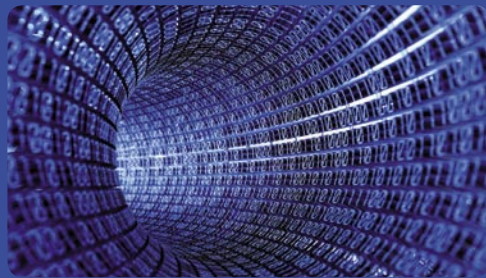
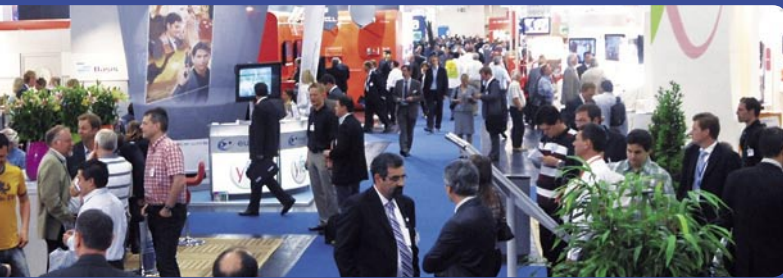
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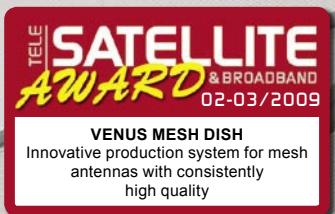
维纳斯的 4瓣 天线系统

印尼的生产厂家 PT Subur Semesta 公司(主要以其品牌维那斯而闻名) 已经开发出一款非常适合 C 波段接收的新型网状天线, 由于设计巧妙, 安装也十分便利。

这款与众不同的天线源于这样一个创意: 就是把天线面板的十二个小瓣合并成四部分。所以看到的是四块大瓣的天线, 每一大瓣都由预制好的三小瓣组成。组装的速度自然也就加快了。

产品附有安装说明。我们组装天线只用了 30 分钟, 而且这里面还包含了这个报告所有照片的拍摄时间!

■ 新型的AL7210铝制网状天线(其直径为7英尺, 因而得名)是由PT Subur Semesta 公司创新型的生产系统制造的。面板由4瓣组成。



■ PT Subur Semesta 公司的新型4瓣网状天线。



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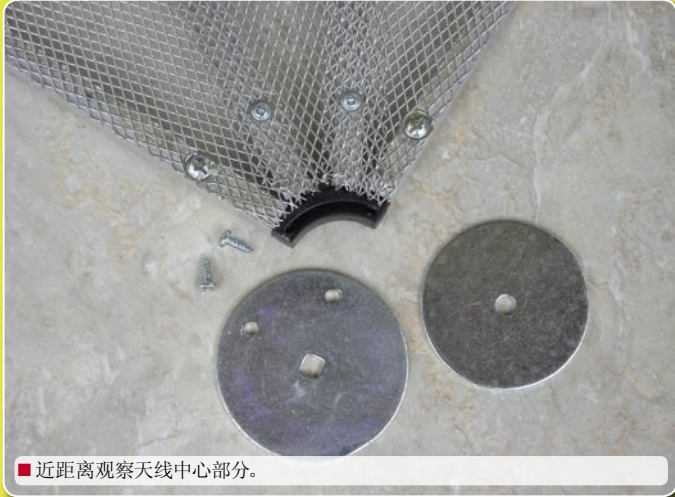
Available online starting from 30 January 2009



■ 全部配件及安装说明。



■ 安装完毕! 所有面板都已相互衔接妥当并在背面固定好。



■ 近距离观察天线中心部分。



■ 拧紧螺栓。



■ 中心夹片的安装。



■ 装上托架。



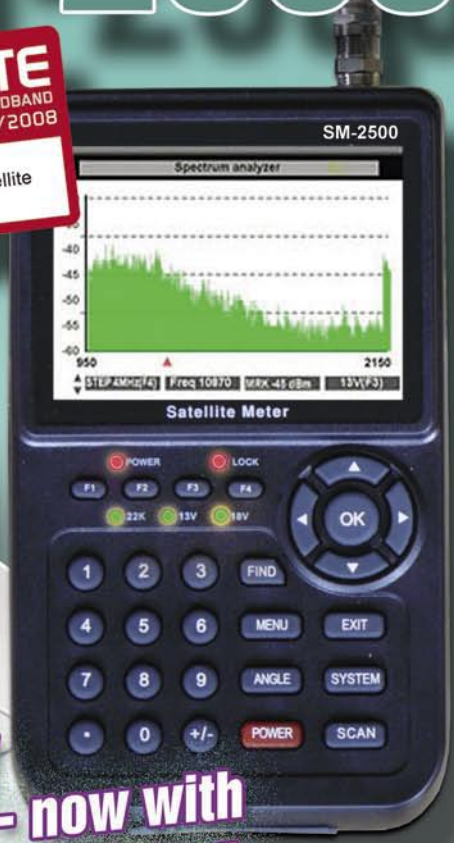
■ 所有面板都与中心夹片连接完毕。



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值得一夸的是各个配件的质量非常高：它们全部都经过电镀处理，不仅使这款新的维纳斯天线安装迅速，而且

也保证了它在数年内运行使用的可靠性。我们测试了主要在印尼销售的 2.1 米（7英尺）天线。由于该国接近赤

道，天线仰角就需要非常高，这也就是天线为什么被安放在立柱顶端的原因。其仰角接近 90 度，在其他任何地方的固定设计无论如何在这里也派不上用场。

PT Subur Semesta 的网状天线的生产几乎完全是自动的，只有 15% 的工作需要手工完成。这就确保了质量的稳定，每一瓣天线都具有良好的抛物面形状。和整体天线比较，这款天线各个部分的一致性非常好。同时，新型网状天线与 PT 公司的固定天线拥有几乎一样的托架和馈源杆。

PT Subur Semesta 选择 7 英尺的口径是基于这样一个原因：在印尼的一些地区，6 英尺的天线还不够大，而 9 英尺对大部份地区来说又有点大。所以 7 英尺完全是

印尼的标准尺寸。PT Subur Semesta 向我们介绍说这只是开始，在启动国际市场其他尺寸天线之前，公司想要首先在他们国内市场上取得立之地。

与 PT Subur Semesta 公司其他产品一样，这款天线也可以用到具有维纳斯专利的水平仪。由于它具有很好的吸磁性，所以可以轻松地在托架上测量水平和垂直角度，而上面的刻度则直接显示出当前的角度，这使调整省却了很多事。

我们使用双LNB的馈源盘来做接收测试。它和能安装4个C波段LNB的4合1馈源盘一样，都是由PT Subur Semesta公司生产的。这种馈源盘特别适合印尼的接收情况，这里可以用一个天线接收多个卫星。可以同时接收到的有：PALAPA C2 (113.0E)、TELKOM 1 (108.0E)、ASIASAT 3S (105.5E) 和 ASIASAT 2 (100.5E)卫星。

经过几分钟的调整，我们就用新天线接收到了卫星电视节目。PT Subur Semesta 的新型网状天线开启了成批生产高质量天线面板的新思路。因为它组装快捷、运输非常轻便。



■安装完毕。现在要进行接收测试。



■好！仪器显示接收良好。

专家的结论

+

PT Subur Semesta 公司的新型网状天线质量优异，性能突出，设计巧妙，安装便捷，配件齐全。安装完毕后即可收看卫星电视。



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HD9000

Dual Tuner HD COMING SOON!

SPAUN Switch for USA

Ron Roessel

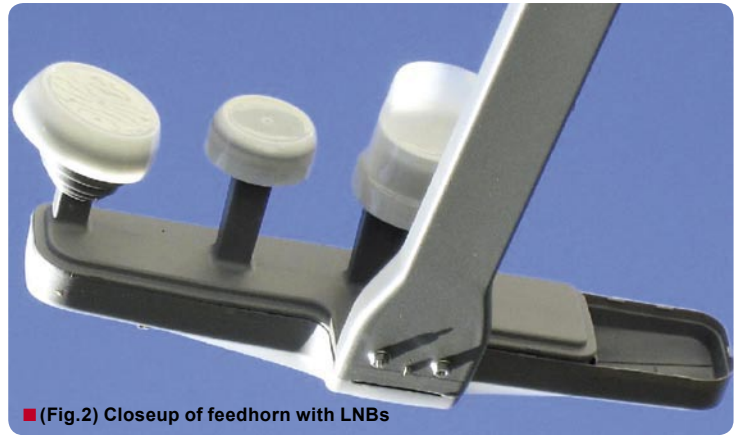
One of the biggest names in the industry when it comes to multiswitches would undoubtedly have to be SPAUN. The company was founded back in October of 1969 and began by manufacturing OEM terrestrial antenna products. In 1991 they began distributing products under their own name and shortly after that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

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

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

Just ten years later in 2005 they had 15 million subscribers! In 2007 DirecTV began offering 70 HD channels and today that number has risen to over 130 HD channels. When you talk to most people about DirecTV, they think of DirecTV as merely a provider of TV services to individual end users such as

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

apartment buildings. 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.

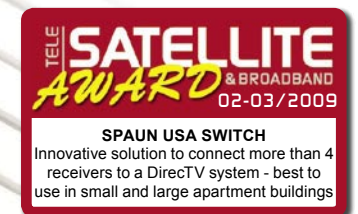
The SlimLine LNB (Fig.2) comes with four independent outputs that when used normally allow the end user to connect up to four satellite receivers. But when used



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

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

Just ten years later in 2005 they had 15 million subscribers!



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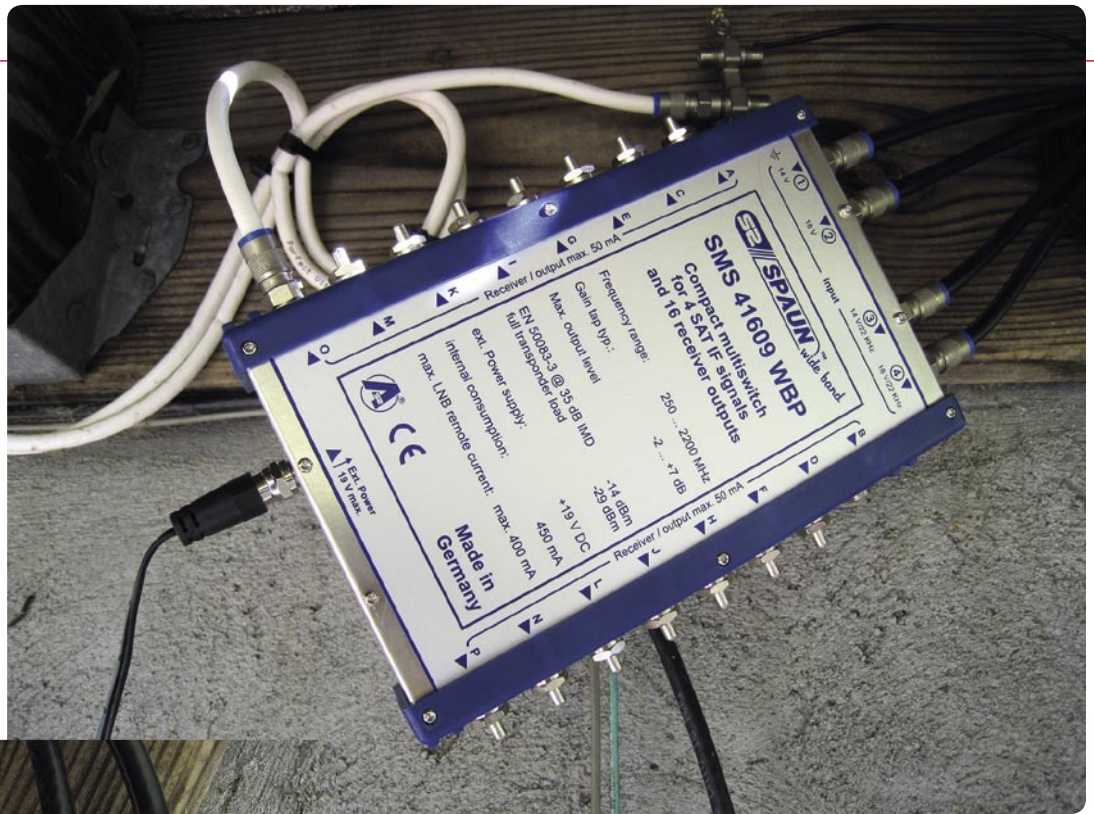
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two add up to five. Then you might be asking yourself how it can be possible to switch between five different satellites and at the same time give all the connected receivers access to these satellites independent of each other.

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:

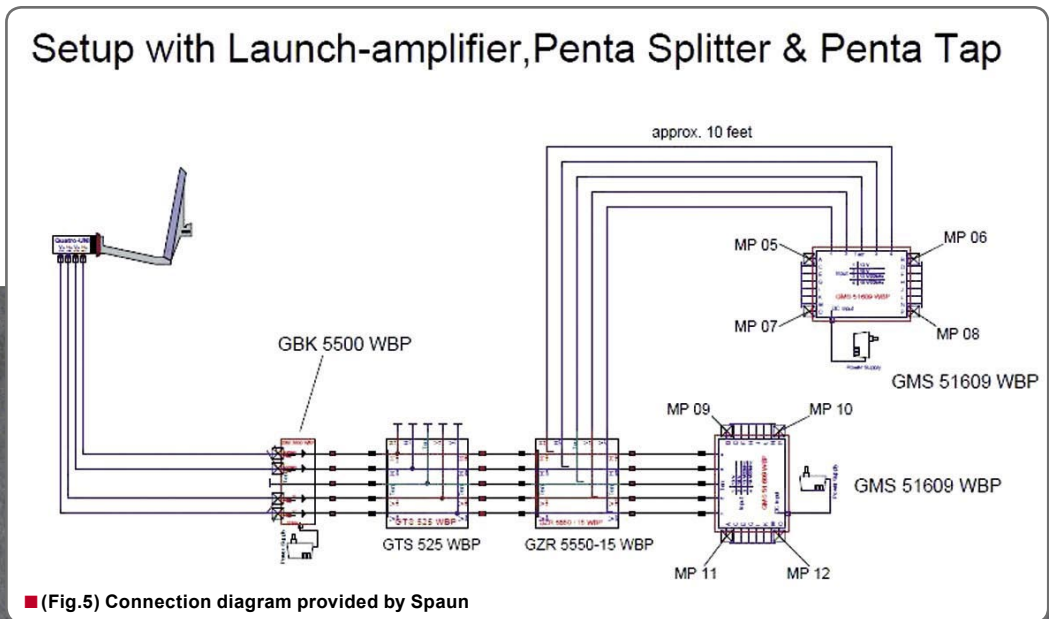
- 1xGBK 5500 WBP Wide-band Launch Amplifier
- 1xGTS 525 WB Penta Splitter
- 1xGZR 5550/15 WB Penta Tap with Directional Coupler
- 2xGMS 51609 WBP Compact 16-Output Multiswitch

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

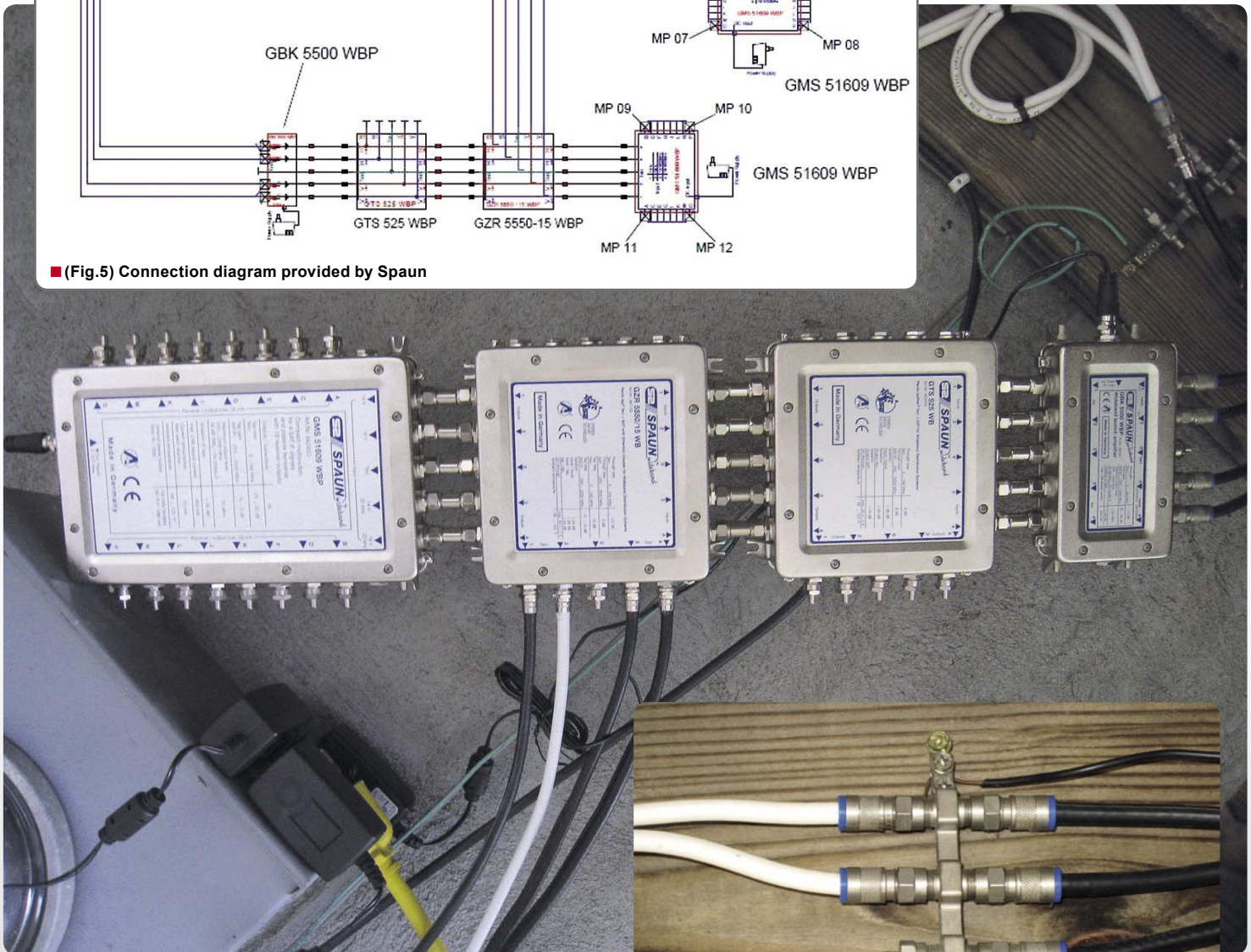
before the cables went into the house. This was a convenient point to connect the SPAUN components.

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.

(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.

(Fig.10) DirecTV Satellite at 119 west

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

(Fig.11) DirecTV Satellite at 99a west

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

(Fig.12) DirecTV Satellite at 99b west

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

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

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

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

There was, however, some

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

Conclusion

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

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

(Fig.13) DirecTV Satellite at 103a west

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

(Fig.14) DirecTV Satellite at 103b west

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

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RECORD 2 HD CHANNELS AND WATCH
1 HD CHANNEL AT THE SAME TIME

- 1 x SMART CARD READER, 2 x CI SLOTS
- PLUG AND PLAY TUNER (DVB-S2, DVB-S, DVB-T, DVB-C)
- 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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AWARD Winning Satellite Receivers

TELE SATELLITE AWARD & BROADBAND
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.subursmt.com
Function	Digital Satellite Receiver for motorized dishes
DVB-S2/LAN	—/—
Channel Memory	4000
DiSEqC	1.2
S-Video/HDMI	—/—
Scart/Digital Audio	—/—

TELE SATELLITE AWARD & BROADBAND
08-09/2008

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

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

TELE SATELLITE AWARD & BROADBAND
08-09/2008

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

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

TELE SATELLITE AWARD & BROADBAND
06-07/2008

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

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

NANOXX 9500HD
Small enclosure, superbly crisp picture, 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公司在发展

一年多前,《国际卫星电视》刊登的一篇报道着重介绍了韩国的成功企业,总部位于首尔南郊安阳市的Arion公司,这是一家高质量接收机的生产厂商。这次我们拜访他们,是想了解Arion公司在过去不平凡的一年里的经历以及关于2009年发展的路线图。

我们在离公司总部不远的一栋新楼里找到了高级销售经理, 山姆·张, 他向我们介绍了最新的情况:“我们搬到这里是为了给员工们提供更好的工作条件。”Arion 公司现在有80名员工, 其中50 人是韩国安阳市研发中心的工程师。“接收机的生产主要是在中国的南方来做,” 山姆·张解释说。

销售经理乔伊·李补充了一些市场分布的情况:“我们30 %的产品销往印度,另外的 30 %销到南美洲,而其余的 40 %销往欧洲。山姆·张补充说,“从2007年早

市场销售主管托马斯·卢(左),市场销售高级经理山姆·张(右),站在 Arion 公司研发办公室的大门口

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■ 显而易见，一家公司的屋顶上树立这么多的天线，其业务一定和接收机有关。J. W.李是 Arion 公司的一名工程师，此刻他正在调整 LNB。从背景可以看见安阳市的轮廓，它就在首尔的南郊

些时候开始，我们在阿根廷的营业部就开始积极运作，”他还透露说：“从2009年开始，我们计划要特别增加西欧的业务量。”

市场销售部的经理托马斯·卢更详细地介绍了Arion公司的主要市场情况：“2006年以后，Arion 公司便集中更多精力放在拉丁美洲、印度和一些新兴国家的电视节目营运市场，并与一些有线和卫星

电视节目供应商签订了合同。但是不久，我们又回到欧洲，这是我们的一个主要的STB市场，借助诸如ST7101等高清节目平台，开发了高清录像接收机市场。”在这些方面，Arion 公司和各家卫星电视和有线电视节目供应商增加了合作。

Arion公司的产品包括哪些呢？“在欧洲，无疑是高清产品这一块。”山姆·张又列举了2009年欧洲市场的产品线：“2009年第一季度，我们准备推出一款高清录像接收机，就是具有外接硬盘功能的机器。而二季度则要推出一款带内置硬盘的机器。年底的时候，可能会推出一些IPTV接收机。”乔伊·李补充说，“当第一批试验品出来后我们马上会



■ Arion 的销售团队正在工作

■ 乔伊·李, 是 Arion 销售团队的市场经理



■ H.M.朴 是 Arion 的高级经理, 领导着这支有 50 名软硬件工程师的研发团队



■ 不要打扰他们! 工程师们正在研究一款新型接收机的电路设计

■ 一名工程师正在为即将推出的一款高清录像接收机调试软件

寄给《国际卫星电视》一份样品来做测试。”我们杂志的同仁和广大的读者们也都热切期待着这些 MPEG-4 高清电视接收机, 因为 Arion 的产品质量经常名列前茅。

如果您想早日看到 Arion 的样品, 就记住 2009 年的两个展会: “我们在 ANGA 和 IBC 上都有展位” 山姆·张确认说。

Arion 公司不断在积极进取, 我们迫不及待地期待着 Arion 新款的高质量接收机。

■ 一款高质量的接收机必须接受最严格的质量检验。E.J. 崔是一名测试工程师, 她正在演示如何在高温室进行检验



美国的 SonicView 公司 4 年内要晋升到百万富翁行列 也许只要 3 年!

现在在这个工业区里还仍然能看得见 SonicView 公司。SonicView 公司租用了两栋房子。“但是几个月以后我们就要搬到我们自己的楼里了。” SonicView 公司的 CFO 史蒂夫·法尔文介绍说，“这里的库房太小了，满足不了我们销售业务的增长需要。”



如果你要想比创业的第一年里销售更多的卫星接收机，那么在四年内可能就会晋升到百万富翁的行列？也许三年内就会实现！2006 年底创建于加州的 SonicView 公司，由博比·森兹在 2007 年夏天接手之后，销售额就大幅度地增加。这是一段非凡的成名史，SonicView 公司的销售经理托尼·莱乌利，向我们讲述了更多的故事。

2007 年夏天，博比·森兹努力启动了 SonicView 公司。从那时开始，公司开动起来了。托尼介绍说，“对于北美的接收机市场来说，SonicView 才刚刚开始面对强手如林的局面。公司开始时只有三名员工，起步很低。凭借非常好的产品线和对于北美市场的熟稔，博比获得了一家韩国接收机生产厂家在美国和全世界的独家代理权。”

博比聚集了一只由一流专业人士组成的团队来充实她的公司。曾经作为一家美国大银行副总的史蒂夫·法尔文也加入了到董事会里来。在退休之后，他担任了 SonicView 的 CFO 并着手公司的日常运作。这项巨大的转变对于 SonicView 公司来说实际上却是相当容易：因为博比·森兹是他

的儿子。史蒂夫丰富的银行经理经验使 SonicView 开启了金融之门，并在接收机行业里树立了很好的口碑。

2008 年，SonicView 的营业额比博比起步时翻了一番。预计 2009 年的情况也会远远好于最初的预期。

乐观的原因来自哪里呢？“北美的免费接收机市场仍然处在发育阶段，”托尼解释说，“这里的多数移民现在还处在在自己家里收看免费卫星电视的阶段。”SonicView 的卫星接收机正是迎合了这一市场情况。

“当然，观众们的下一个市场就是付费电视，但是发展很慢，因为目前还有很多的免费节目可供收看。”特别是由于目前的经济衰退，许多人也正在反省自己为什么把钱花在付费电视上。

SonicView 正在向南美开辟第三市场。“这是一个尚未开发的巨大市场”托尼对此深信不疑，“我们管它叫它‘处女地’”

SonicView 的专业水准在此可见一斑：在找到当地经销商之前，必须首先解决物流问题。“我们通常只把货物船运到岸，以减少风险，而剩下的就完全由当地的经销商负责了。”犯罪和腐败是 SonicView 公司必须要远离的事情。托尼接着说道，“我们必须把风险限制在最低水平。”

看到他们的各种产品，给我们的感觉是他们的工作非常有条理。接收机完全按照市场需要组织进货。其顶级型号的 HD8000 接收机，不仅可以接收高清卫星电视节目，也可以接收地面的高清节目。最近在《国际卫星电视》介绍过的 SV360 Elite型装有双调谐器，而单调谐器版本的就是 SV360 型。

2009 年1月，当 SonicView 参加在拉斯维加斯举行的 CES 展览时，他们将会有另外三款接收机亮相：高清电视版本的SV360 型将配有两个调谐器，还有一款为南美洲市场设计的简装版，它将只有一个调谐器并备有射频输出接口，而不是 HDMI 接口。

托尼向我们介绍了他们的业务：“我们这三种型号的接收机出货量都一样，换句话说，就是各占 30%。”

SonicView 现在有11名员工，他们只向批发商发货。“我们的顾客由美国、加拿大和墨西哥的八个地区代理商组成，”托尼接着介绍说，“这些代理商又面向 130个经销商。”

SonicView 的产品种类预计将进一步增加。托尼解释说，“2008 年，附件只占我们销售额的 10%，但是我们



■ CFO史蒂夫·法尔文，以前是一位银行家，史蒂夫懂得如何通过金融运作使一家公司迅速获得提升。



■ SonicView 公司的销售经理托尼·莱乌利正在阅读《国际卫星电视》里 SonicView接收机的测试报告。“我从《国际卫星电视》里学到了很多，”他向我们透露说，“他最喜欢看关于各个国家的报道。”



■ 巴西籍的帕翠西雅·玛瑞拉·仁寇是他们的国际业务顾问，她正着手组建南美的分销网络。

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这是仓储经理克里斯·维特康姆博。他介绍说，“每只盒子里装5台接收机，而每个集装箱则能装下1000只盒子，就是5000台接收机。”这是代理商最小的订货数量，而对于他们当中的大多数来说，这个数量远远不够。“货一到，第二天马上就装得装船。”他解释道。

肯·查瑞是名库存管理专家，他不仅要负责向代理商发船，还要负责所有与韩国有关的货物进口手续。“海外的货运需要一周加一天的时间就能顺利到达客户手中，”肯解释说。



技术支持经理阿达姆·顿正在修理一台有问题的接收机。他解释说，“我们返回的产品很少，去年全年的返修率只有销量的0.02%。”SonicView产品的优良品质也是他们迅速成功的原因之一。



SonicView 的技术支持是来自密执安州的迪克和朱利·斯维尼，而瑞克·凯勒(照片里)则来自密苏里州的堪萨斯城附近。他是SonicView的专家，负责解答顾客们关于接收方面的疑难问题，包括极轴天线方面的特殊问题。瑞克提到天线时说，“我有6个天线和13台接收机。一个3.0米的整体天线，一个2.5米的铝网天线，都是极轴的，还有一个收看DirectTV的90厘米天线，一个收看Galaxy 25的75厘米天线，还有2个75厘米的极轴天线。”瑞克是一个影像传送的搜猎者，他还开办了一个专门的网上论坛：www.websitetoolbox.com/mb/rickeaylor

希望 2009 年会有显著增加,事实上,将来附件可以占到我们销售额的一半。”大部分是复合切换开关和 HDMI 连接线的 U 盘。

对于今后，博比·森兹还有很多计划，可以预见这些计划也完全会实现：专业的资金筹措、完全市场指向的出色产品，还有最佳的时机选择。

有谁知道 SonicView 会不会只需三年就将成功晋升到接收机行业的百万富翁行列呢！

这些SonicView公司所用展示给最终用户的图标是授予经销商的，用来表示授权和信任。只有SonicView公司授权才会颁发这些图标。经销商也会把这些图标放在他们公司的主页上。

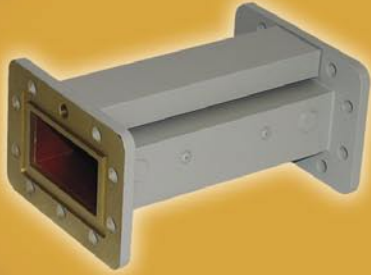




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工业园区的九洲电器大厦,为庆祝
其50岁华诞装饰一新。

具有 50 年历史的高科技公司为数寥寥。这
当中之一便是来自中国四川省的九洲公司。

2008 年,公司庆祝了她的 50 周岁生
日,2008 年第 3 期的《国际卫星电视
及宽带》做过相关报道。公开的
庆祝是于 11 月 16 日在四川
省的公司总部举行的。

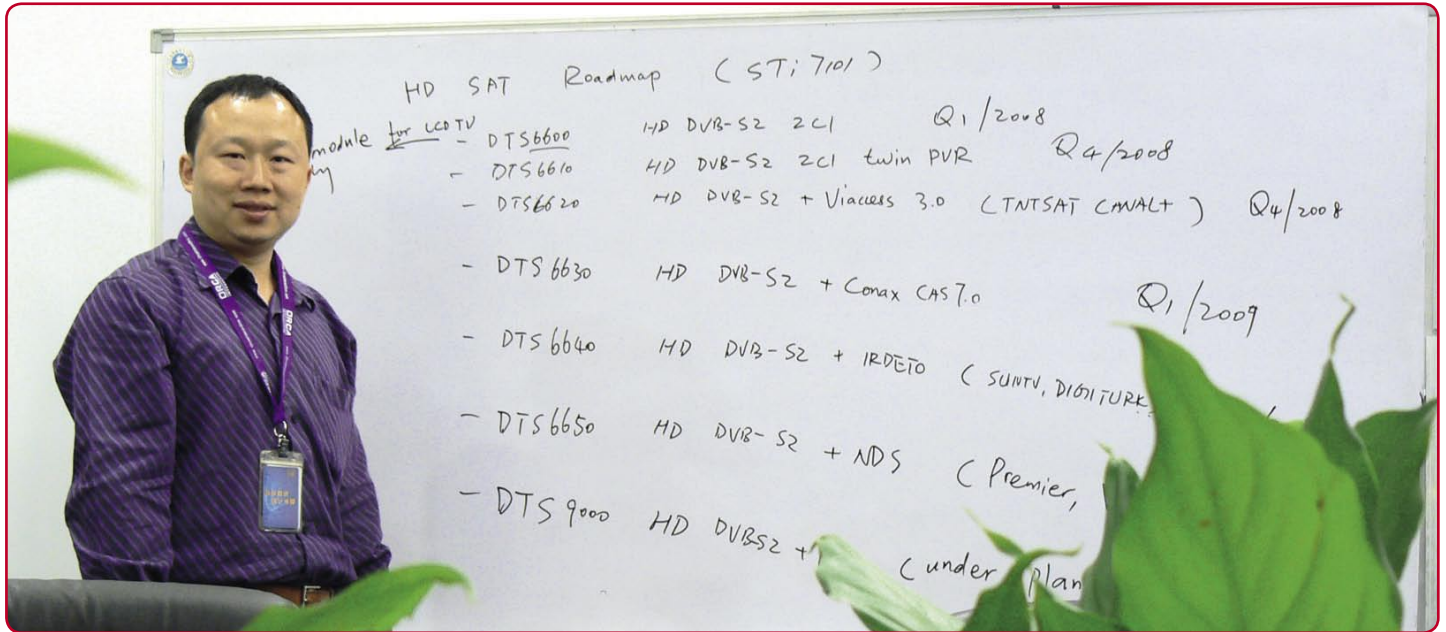
现在的悬念是:在第
51 个年头里会有
什么故事呢?



在第 51 年里的最新进展

九洲公司的销售和研发基地位于深圳市，它毗邻中国南方的香港。在那里，我们遇到了深圳九洲电器公司及其数字传媒分公司的销售经理黄伟，他在九洲集团分管机顶盒业务。除了卫星接收机之外，九洲公司还生产有线电视、地面电视和 IPTV 的接收机。

“DMB-TH 数字地面电视已经在香港投入使用，而中国大陆准备在 2009 年开始推广它，”黄伟在谈到卫星业务之前，做了这样介绍：“2008 年，我们的



■ 销售经理黄伟为我们展示了 2009 年新型号卫星接收机的路线图—全部机器采用 ST 的芯片组。

标清产品占 95%，而到 2009 年，高清产品的比重将会增加到 20~25%。”

面对市场需求，九洲公司具有型号完整的产品储备。在前期的《国际卫星电视及宽带》中已经介绍过了 DTS 6600。同时，双调谐器的 DTS 6610 也即将推出，不久将由《国家卫星电视及宽带》杂志组织测评。

“DTS 6620 不久即将面市，它是专为法国付费电视节目供应商 TNTSAT 开发的，”黄伟接着谈到了这款新机器及



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Russian	Русский	www.TELE-satellite.com/TELE-satellite-0903/rus/jiuzhou.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0903/tur/jiuzhou.pdf

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他们的市场推出时间。“2009年,我们将面向印度和土耳其市场开发整合了Conax、Irdeto 加密系统的机器,当然也包括 NDS 系统。”而现在正在生产一款 IPTV 型产品,但是“现在这不仅是需求热点,而且法国电讯也已经开始招标,”黄伟介绍说。

从理论上说,所有的接收机都是PVR,因为都可以用USB接口接上硬盘或者U盘。“我们正在加紧与节目供应商的合作,按照他们的要求生产,”黄伟详细地介绍了九洲公司的商务策略。这就意味着从技术角度上讲,九洲公司能够将内置硬盘作为出厂标准,从而提供全能的PVR接收机。

“在深圳,我们现在有大约250名软件工程师,而且每年还要增加20~30人,”黄伟自豪地介绍说,他还说明这



■陈军是九洲公司的一名软件工程师。在这里可以看到他正在编制高清接收机的软件。

样九洲公司就能够很容易地满足顾客的需求。“举例来说,即使是生产康宝型的接收机,也没有任何问题,而最近,我们获得了可杜比音频的许可。”

ABS 是最近开发的项目之一——请参看本期性能报告来了解更详细的内容。ABS 是中国的 DTH 广播标准,并且可能会成为中国市场一种主要的产品。“我们还在等待最后的规范标准出台,而到2009年,应该能看到ABS系统推出,”黄伟说到。

可以推想,九洲公司20%的接收机将会是ABS标准的。50%将是标清标准的,而20%将是高清标准的。黄伟总结说“我们也为液晶电视机生产6600型的接收机作为其内置的接口板。”这就意味着九洲公司的产品可能被装入其他品牌的产品中。

这些就是关于卫星接收机和九洲公司的所有现状吗?才不是!九洲集团公司还有另外一家公司:九洲电器公司,这是一家专门为有线电视节目供应商生产高端卫星接收机的厂家。《国际卫星电视及宽带》在2007年第11期中介绍过他们的DVS-2018BS型接收机。

■九洲公司海外销售部经理唐二满站在公司大楼绿色门廊的前面。背景的巨幅海报是在庆祝公司的50岁华诞。





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- USB lead supplied
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- Compliant with EN 61326-1 : 2006 (EMC) and EN 61010-1 : 2001 (Electrical safety)
- Registered design
- Free product support via phone and email

HDSM USB PLUS (additional features)

- Easy to use Spectrum Display Mode
- QPSK Constellation Diagram (with zoom function)
- Histogram display with up to 9 simultaneous carrier measurements for single cable installations (SCR)
- Data Logging (upload installation measurement data to your PC)

HORIZON DIGITAL TERRESTRIAL METER (HDTM)



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- Can store up to 32 transmitter selections (via our web site downloads) a default of UHF 21 – 69 step through is preloaded.
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这是一款标清接收机，外贸经理 Yonchin Shou 介绍说这款新型 DVS-2018 CS 接收机兼容高清电视。“现在有线电视公司也提供高清电视节目了。”如果有需求，还可以加上 CI 模块功能。

《国际卫星电视及宽带》正在为这款特别型号的机器撰写试验报告。“目前的型号是基于 MPEG-2 的，但是我们在四川和北京有超过 200 名工程师已经在开发一款 MPEG-4 的型号，”Yonchin Shou 向我们透露了这项未来的计划。“但是现在，对于 MPEG-4 接收机的需求仍然被抑制着。”

即使是过了 50 岁生日，九洲公司仍然充满着新鲜的思想。当然，我们也对九洲公司的销售策略很感兴趣，就向唐二满询问。唐是九洲公司海外销售部的经理，当问及他九洲公司产品未来的市场时，他认为“在亚洲还继续需要标清电视的同时，欧洲和北美很明显对于高清电视接收机出现需求。”唐二满适当地规划着市场资源：“2009 年，我们将参加十二场专门的展览会，”唐二满向我们解释了与 2008 年的不同：“去年，我们只进行了 19 场小规模展示，2009

■九洲公司的展品室展示着公司的产品。端坐的是凯蒂(左面)，助手琳达·李(右边)，她们都来自九洲公司海外销售部。



■销售经理 Yonchin Shou 介绍着 CATV 目录上新型的 DVS-2018 CS 专业高清卫星接收机商标 (www.jiuzhoutech.com)。

年我们减少参展次数，但是规模将会扩大。”

当然，九洲公司也把互联网作为一个重要广告媒体。唐二满表示“我们25%的销售费用将花在在线广告宣传上。”目标主要是 B2B 网站阿里巴巴和环球资源网。“我们广告费用的 15% 将用在《国

际卫星电视及宽带》上，而 60% 会用在专业的展览上。”唐二满也说明了为什么如此分配资金：“我们接收来自在线广告宣传的一些反馈，但是我们只能从中收到很小的订单。展会上获得的订单效率最高，因为我们在那里和节目供应商实际进行了接触。”另一方面，参与展会的费用也很高，“展览也往往间隔很长时





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间，”唐二满遗憾地说。因此以后仍然会进行印刷品广告宣传：“我们吸引潜在顾客”的注意很长一段时间，这样，给我们创造机会来塑造我们的形像。“唐二

满对于他的全部营销策略了却在心，并说明“我们想要维持这样一个分配比重而且不做大的调整。”唐二满的部门在深圳有 20 名员工，他们负责对外联络。

九洲公司一将在她 51 岁的时候，更加积极进取！

■ 软件工程师朱晓勇正在用实际的卫星信号测试高清原型机。



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

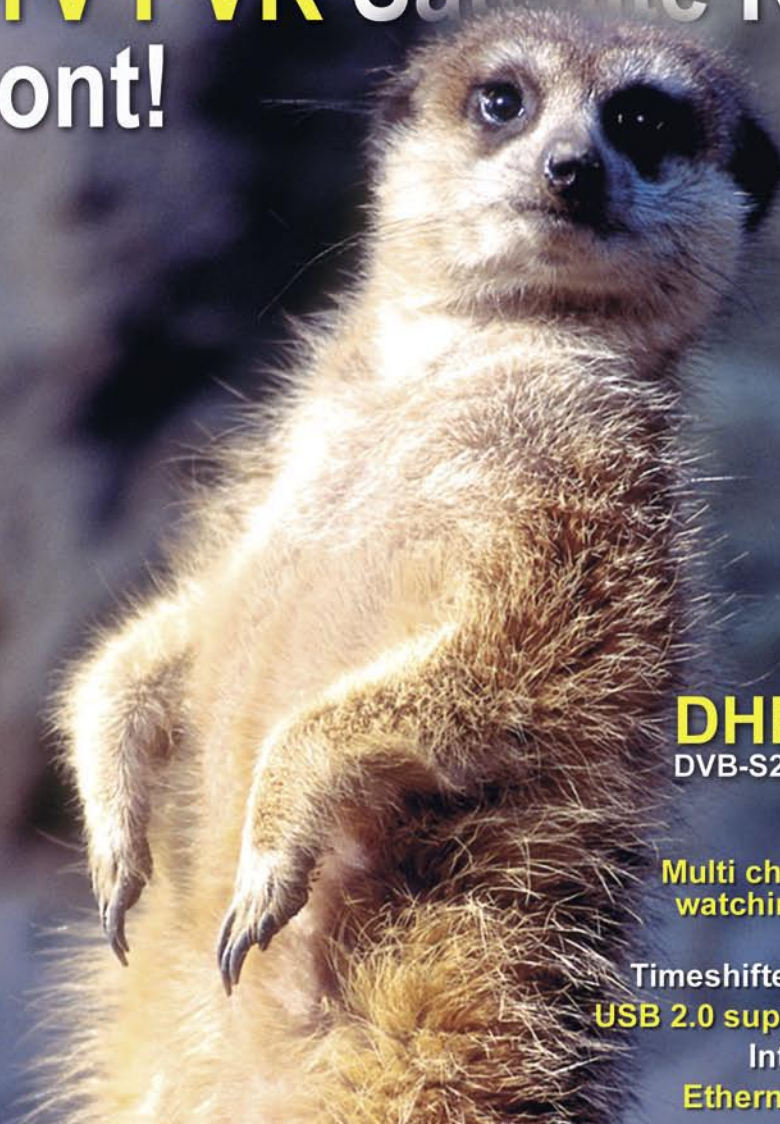
to install satellite systems for sporting events in many of the sports bars in Amsterdam and this makes up about 40% of our sales today."

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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Main Menu





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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微波滤波器公司 优质专用滤波器 美国制造

卫星系统接到的不仅有我们真正想要的电视、广播和数据信号,而且还可能接收到不必要的干扰信号。那怎样才能去掉这些讨厌的信号呢? MFC,一个美国生产先进卫星信号滤波器的厂家,就生产能够去掉这些干扰的各种滤波器。



■ 卡尔·法润克儒格是微波滤波器公司的总裁和CEO。



■ 总是在电话边守着顾客: 桑迪·耐勒坡维茨是一名销售副总,管理着销售团队。



■ 销售经理史考特·帕赛尔,管理着国内外的销售网络,他为公司寻找着新的商机。

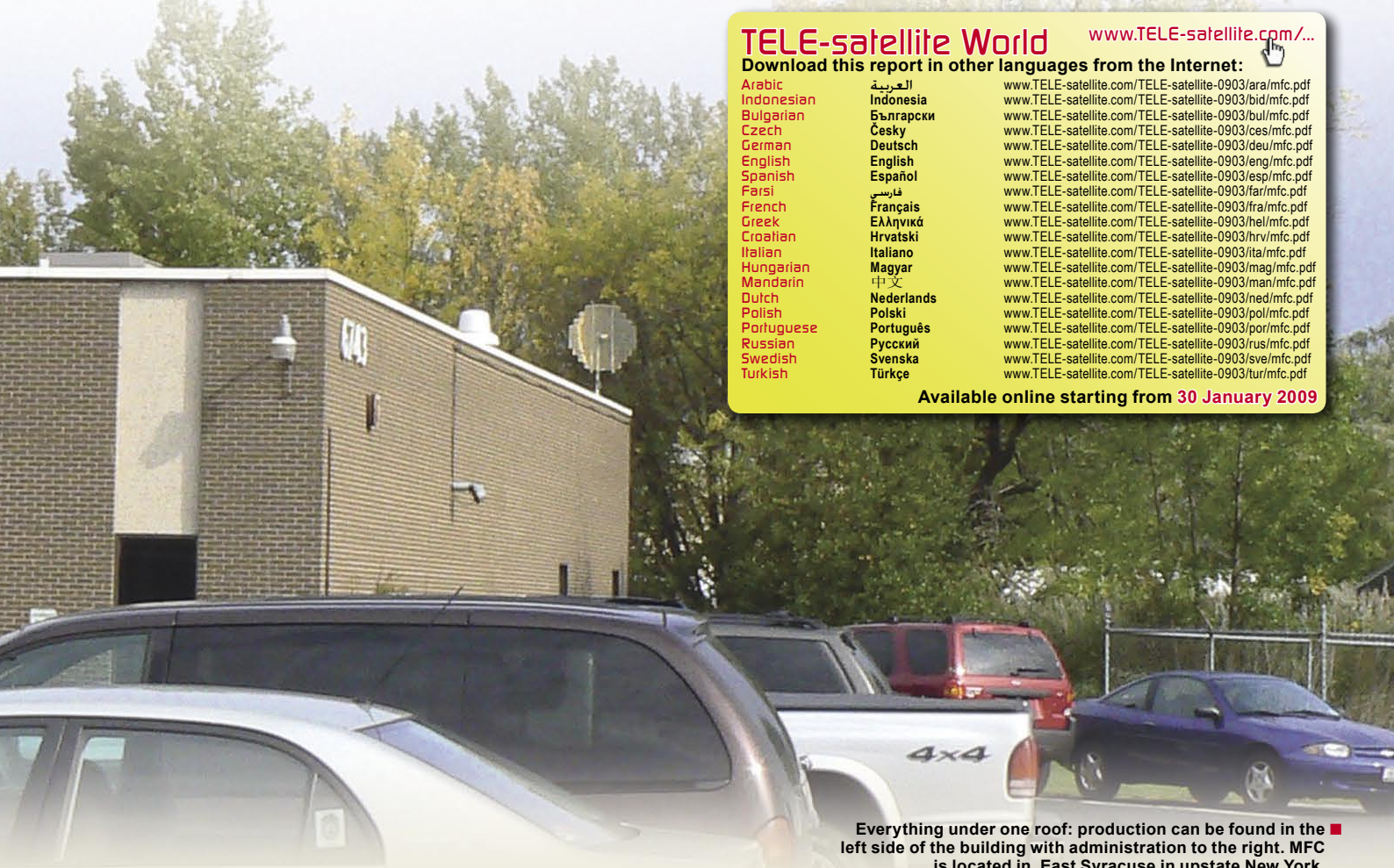
“该公司于 1967 年成立，离大城市纽约很远”，MFC 的销售副总桑迪·耐勒坡维茨介绍说。从某种程度上讲，她是该公司的核心和灵魂人物。至今她在 MFC 工作了近 30 年，她如数家珍地介绍了公司的一些历史，“MFC 的创始人是吉林·鲍斯迪克，实际上公司是从一个车库里起家的，那时是为业余无线电爱好者生产滤波器。1973 年，我们搬到了我们现在的地方。当时，我们和其他公

司共同租用部分设备。到了 1983 年，由于业务不断增长，我们就买下 3700 平方米的整个工厂。”

也已在 MFC 工作了将近 20 年的销售经理史考特·帕赛尔，做了进一步的介绍，“尽管这些年来的经济低迷和电讯行业中技术的不断升级换代，MFC 的业务仍然保持强劲的增长态势。这主要归功于我们生产滤波器产品品种的多样

在第一和第二阶段滤波器是无用的，而唯一的办法是从馈源到下变频之前用频带滤波器除掉这些信号。

史考特接着说，“我们生产标准频段(500 MHz)、宽频段(600 MHz)，还有超宽频段(800 MHz)的频带滤波器。我们也为用户订做特别频段范围的滤波器。可以说我们能为世界上任何地方提供所有类型的 C 波段滤波器。”



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Available online starting from 30 January 2009

Everything under one roof: production can be found in the left side of the building with administration to the right. MFC is located in East Syracuse in upstate New York.



艾瑞克·洛根是一名工程师，他可以直接在计算机上完成满足用户需求的设计。MFC 还提供军事用途的滤波器（如 X 波段）。

化，以及相应的服务。事实上，我们的业务遍及电讯市场的所有方面（卫星通讯、CATV、广播，等等）。这种产品的多样化意味着我们的成功并非依赖于某一个特定市场。”再加上多年前就已经成熟的制造技术工艺，极大地提升了生产效率 - 这让 MFC 更具有竞争实力。

MFC 生产最多的是什么呢？史考特介绍了一个 MFC 常用的产品线，“我们的 C 波段系列滤波器应用在世界各地的 C 波段接收天线上。这些安装在 LNB 和馈源之间的滤波器，将杂波信号移到正常信号的上段或下段频率上。”

虽然这些杂波信号被移除正常频段之外，但它们的功率还很大，实际上会造成 LNB 信号的饱和，并在整个 C 波段范围内产生间断或连续的干扰波纹。因此，

那么，什么时候会用到这样的滤波器呢？史考特给我们举一些例子，“最早在商业航班与机场之间传送的高度计信号被认为是 C 波段频段干扰的来源之一。于是就产生了在机场附近 C 波段天线使用受到限制的问题。后来，在军事侦查领域中使用的大功率雷达信号（如 AWACS 飞机）影响到了更多的 C 波段天线。而在 911 恐怖袭击之后，这种侦查显著地增加了，美国的每个 C 波段天线似乎都受到影响，全球其它许多的天线也如此。其结果是，雷达波成为是对 C 波段信号干扰的首要原因。”

“而最近则更多了，”史考特补充说，“一种新的 C 波段干扰源又浮出水面 - Wimax”在世界的各地，Wimax 开始在 (3.3-3.8 GHz) 频段范围投入使用。这些 Wimax 信号能干扰到 C 波段



■如果遇到复杂问题,工程团队就会聚在一起研究特殊的开发。保尔·米尔斯(左边)是管工程的副总,鲍勃·保尔(中间)是总工程师,麦克·维思(右边)是机械工程师。

不管是大量的还是单只的滤波器,任何人都能从 MFC 那里订货。“我们甚至还对标准滤波器提供 30 天后的换货保证,”桑迪解释说,“如果那种滤波

器不是顾客所要的,那他只需付运费即可。”然而,因为通常顾客都知道需要哪类滤波器,所以也没有必要利用这一项保证。

当然,如果他们不知道选择哪一类滤波器的时候该怎么办呢?桑迪解释说,“我们的销售员里有技术支持人员,他们熟悉如何解决顾客的大部份问题。因此,如果需要的话,他们能协助顾客选择适当的滤波器。”对于那些仍然不能确定滤波器是否能解决他们问题的顾客,可以让他们先买一个标准的滤波器试试,这样就避免了聘请一个顾问帮助他们进行选择的高额成本。

多年以来, MFC 已经在全球卫星领域营造了一个成熟的专门市场。借助他们的综合知识和优质承诺, MFC 能轻松地满足任何顾客的特殊需求。如果你正在试图消除杂波干扰,那就会在 MFC 的滤波器产品线中找到正确的选择。

拓展频段 (3.4-4.2 GHz) 卫星接收信号中通常和它们共享的频段。这样, C 波段使用者必须安装一个 C 波段频带滤波器以滤掉 Wimax 信号。但是由于滤波器也会滤掉相同频率的 Wimax 信号,一些较低端的 C 波段频段就被舍掉了。(牺牲)

然而,如果 C 波段剩余部分没有干扰而有利于接收的话, C 波段的使用者宁愿损失掉一些 C 波段频段。因为 Wimax 刚刚出现,史考特预见到全世界的 C 波段使用者对滤波器的潜在需求会有增加。

与 C 波段的使用者比较, Ku 频段的使用者面对来自其他方面的干扰少了很多,因为相对于拥挤的 C 波段,他们使用的是宽松的、频率更高的波段。

“而在许多 Ku 频段的收发装置上也需要应用 TRF(无滤波器传输),通常上行传输和下行接收会使用同一个天线。TRF 被安装在馈源的接收端(10.7-12.75GHz),以消除强烈的传送信号(13.75-14.5 GHz)”,史考特解释说。

MFC 也生产 Ka 频段的频带滤波器,“对 Ka 频段的滤波器的需求仍然相当少”史考特承认,“因为在这个波段中使用者还受到一些限制。”

桑迪·耐勒坡维茨透露了公司下一步的想法,“我们最大的客户群在美国国内 - 因为 MFC 在美国一直是有线电视用户一个最大的 CATV 滤波器供应商,”桑迪接着说,“从 1992 年以后,外销已经占到 5% ~7%。但是,我们希望美国以外市场的销售能随着对卫星滤波器需求的上涨而有更进一步的增加。”



■露丝·艾瑞斯是人力资源经理,她为我们介绍了 MFC 的员工情况:“我们有 6 名工程师,36 名工人和 11 名行政管理人员。”



在数控铣床旁边的是布鲁斯·森托夫(左边)和戴尔·牛顿(右边),许多滤波器的壳体就是在这里生产出来的。“在头天通宵进行自动加工后,我们就在晚上编程”,布鲁斯·森托夫解释说。

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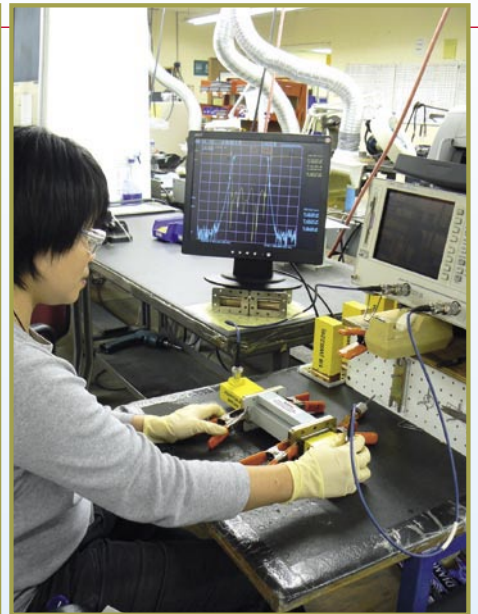
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■ 戴尔·牛顿向我们展示生产的顺序：从铝块(左边)到一个铣出接口和螺孔的完整滤清器壳体(右边)。



■ 沃泰尔·布兰特勒在安装滤波器的接收探针。使用的胶需要三小时才凝结；滤波器被安放在保护壳体之中。然后，过滤器就被密封起来，与周围空气隔绝了。



■ 生产过程中各处是否运行正常呢？泰·奈勒在进行最后的测试，通过连接到一个网络分析仪上来测定滤波器是否符合性能规范。



■ 这里，在机械装配一个滤清器。MFC 的员工梅莉莎·本茨在为焊炉准备一个滤清器...



■ 比尔·阿达莫是质量管理小组的负责人，他向我们展示滤波器在进行密封压力测试：“这里的滤波器被放在 5 个大气压下。”这样，他们能检查到是否内部的连接器被完全密封。“即使是最小的渗漏也能让潮湿空气进去并改变滤波器的性能”，比尔·阿达莫说，“我们对滤波器进行 100% 的测试！”确保每个顾客的每个 MFC 滤波器都是优质的。



■ MFC 实际上自己来完成这一项工作：加工完的过滤器这里按照要求涂装彩色保护膜。



■ ...当滤波器通过这个焊炉时，实际上就完成了焊接。



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这是一支年轻的团队，他们正在努力将自己的品牌OPENSAT推向欧洲卫星接收机市场的顶端。ABC BIZNIS公司在 2004 年末才成立，在那以后不久，这家公司就成了卫星接收机市场的主要供应商。遗憾的是，2008年，由于公司创始人的不幸离去，使得这条成功之路暗淡下来。我们要探究ABC BIZNIS 公司是如何应对这场危机的。

今天，ABC BIZNIS 公司是一家立足斯洛伐克本地市场的批发商，其经营的商品包括天线、LNB、同轴电缆和接收机。而作为制造厂商，ABC BIZNIS 公司还出口旗下 OPENSAT 品牌的接收机。

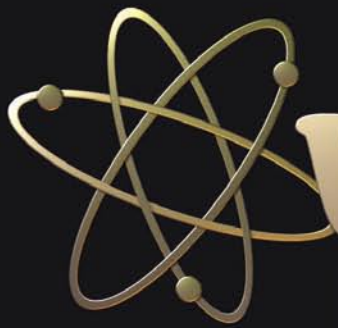
2007 年初，公司开启了第一条接收机生产线来生产 OPENSAT 牌的接收机。在2007年，他们推出了四款标清接收机和第一款高清接收机，到了2008 年中，他们又推出了第二款高清接收机。顺便说一下，这款接收机此前在《国际卫星电视》做过介绍。

那么他们是如何应对突然失去创始人的困局呢？答案可以从建立起这支年轻团队的新老板维洛尼卡·莱赛特科娃那里得到，她介绍了那段时间发生的

■ 数月以来，维洛尼卡·莱赛特科娃就是 ABC BIZNIS公司唯一的经理。在她办公桌上的一个特殊位置，摆放着她儿子，也就是这家公司的创始人艾瑞克的照片，他才去世不久。正是他，给了她经营好ABC BIZNIS 公司的精神力量。



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■ 销售经理维洛尼卡·莱赛特科娃，是经理维洛尼卡·莱赛特科娃的女儿，也是公司创始人艾瑞克的妹妹，她制定了ABC BIZNIS 公司广告宣传战略，并在广告设计上宣示：各种绿色和黑色暗影，就是我们团队的颜色。



■ ABC BIZNIS 公司的楼房：仓库在前面，办公室在后面。“但这并不是全部，”销售经理维洛尼卡·莱赛特科娃介绍说：“我们还在另外的一家公司那里租赁了库房。”



■ 财会部一瞥，财务经理泽尔米拉·莱曼诺娃（左），财务助理玛缇娜·安德露索娃（中间）和系统管理员杰佛逊·肯基·塔克哈什。



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事情：“在我的儿子艾瑞克，也就是ABC BIZNIS公司的创始人去世以后，我就接手管理这家公司。”维洛尼卡强调说，当时外面风传我们在寻求合并或寻找合作伙伴，但这些都是造谣。

日常工作中的两件事证明了她的话：一是这支只有14名员工的团队100%愿意追随她，二是她将从前在生意上积累的丰富知识和经验很好地运用到了她现在的技术领域。

艾瑞克的妹妹，她也叫维洛尼卡，向我们讲述了公司初建时的情形，艾瑞克13岁

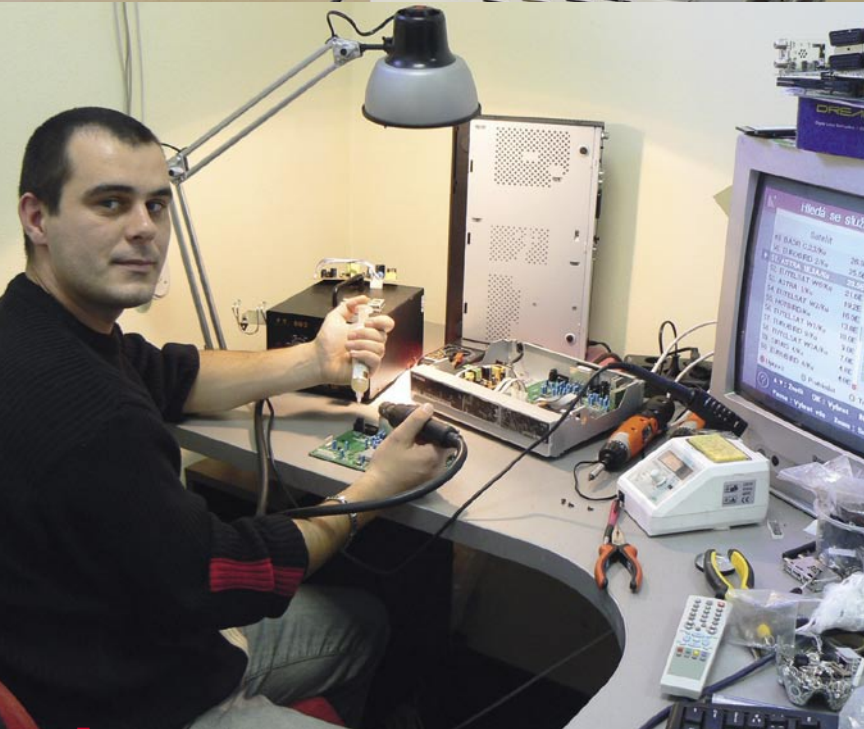
■ 仓库在准备发货。库房经理马丁·派塔正在操作叉车，卢卡斯·米查里克（右边）也是一名司机，而杰佛逊·肯基·塔克喀什正在检查一个要发运的接收机。



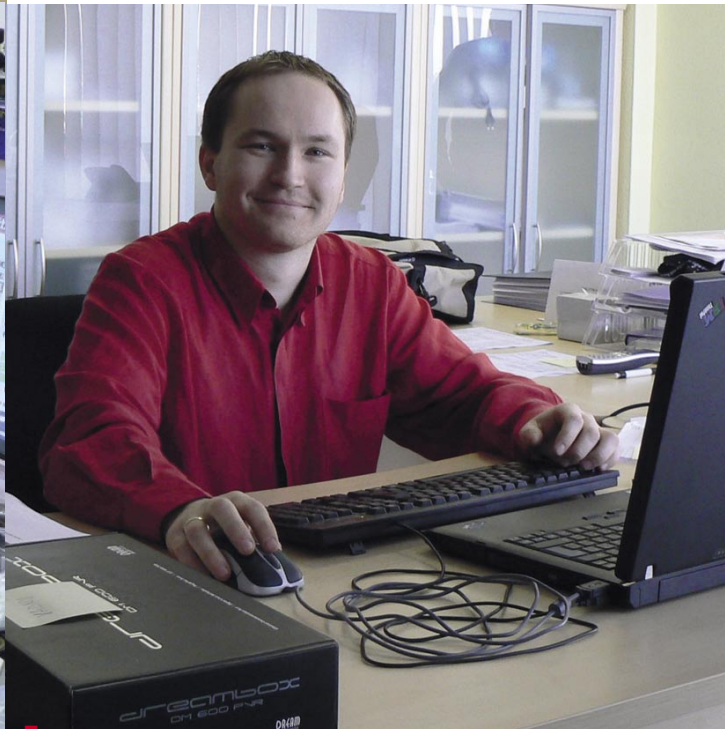
■ 采购经理卡洛丽娜·斯垂彻洛娃正在与供应商联系。



■ 每一笔卫星接收机订单都要通过ABC BIZNIS 公司的销售经理汉娜·达妮索娃。她的英语非常好，她为欧洲各地的客户提供专业的技术支持。当然，她对ABC BIZNIS 公司成功型号感到非常自豪：“OPENSAT 的 X7000 型是我们的最大卖点，它占了40% 的订单数量。”OPENSAT 的 X7000CI 和 X7700 型各占25%，剩下的10% 是XT 9500 HD型，它是一款高清接收机。



■ 即使质量再好的产品也可能有瑕疵。彼得·希尔加克是 ABC BIZNIS 公司的两名技术员之一。他正在这里更换电路板上的一个芯片。



■ IT经理亚历山大·马克专注于内部原理结构并为ABC BIZNIS 公司的客户提供技术支持。

的时候就开始帮助爸爸照顾生意。他的职业生涯开始于我们爸爸的生意。而十年后艾瑞克就开始将自己的想法付诸实施。更多时候是倾注于创立自己的品牌 OPENSAT。他与卡洛丽娜·斯垂彻洛娃合作，也就是现在的采购经理，还有一个司机，于2004年成立了ABC BIZNIS公司。

由于他的创新思维和对市场的完全把握，没用多久就把自己的品牌 OPENSAT成

功地推向了市场。随后，就占领了斯洛伐克本地市场，后来，在 2007 年，他开始进军国外市场，首先是捷克市场。很快就将40% 的产品出口出去。到了2008 年，OPENSAT品牌的接收机几乎出口了50%。

从公司创始就在这里的卡洛丽娜·斯垂彻洛娃向我们介绍了 OPENSAT 品牌在不同市场的情况：“做为邻国，捷克销售了大部分OPENSAT 产品，大约有50%，

然后是德国和瑞士，各占20%，剩下的10% 销往欧洲其它地方。

ABC BIZNIS 公司现在的目标市场是西班牙和葡萄牙，他们在那里的市场占有率逐渐在增加，也正在寻找分销商。”卡洛丽娜补充道“我们在邻国匈牙利和乌克兰也需要更多地分销商。”

维洛尼卡·莱赛特科娃经理接着阐述

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了他们的一个重要的销售策略：“我们实行免费换货！”这让ABC BIZNIS 公司的四辆奔驰货车几乎是不停地穿梭在欧洲各地。“我们也没有最低订货限制，”维洛尼卡又说“所以我们也不再为小额订货额外增加运费。”这对于小额的经销商非常重要。“我们想为小的客户提供发展机会，并和他们一起发展，”这是维洛尼卡的另一个观点。销售经理汉娜·达妮索娃还爆出了更厉害的信息：“我们提供两年的质保！”

当你读到这篇报道的时候，新的型号将会面市。销售经理汉娜列出了一个单子：“ OPENSAT 3000 CR PVR 是一款带有读卡器的PVR 接收机，而OPENSAT 3000 CRCI PVR 则带有 CI 模块功能。OPENSAT 3500 HDMI PVR 和OPENSAT 3500 CI HDMI PVR 两种型号的接收机，正如它们的名字里包含的那样，都具有 HDMI功能。”

你可以想象得到，失去了创始人，是多么悲痛的事。但是，这让大家更紧密地团结在了维洛尼卡·莱赛特科娃的周围。他们在自己的岗位上尽职尽责，彼此之间的协作更加顺畅。维洛尼卡，这位新经理的女儿，公司创始人的妹妹，对于他们的成功有着一番很好的解释：“我们都知道艾瑞克的目标理想，我们也正在朝着这个目标努力着。”

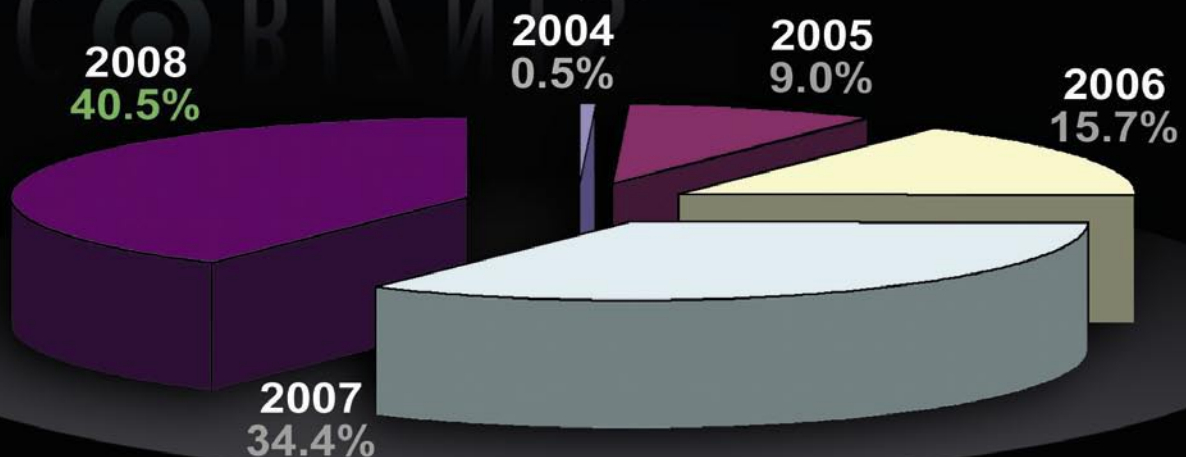


准备好了合影：两个维洛尼卡（妈妈在中间，女儿在她后面），周围几乎是全体员工们。他们的平均年龄在30到35岁之间。

ABC BIZNIS 公司从 2004 年起步，实现了火箭式的发展。当初在欧洲的销售比重才为 0.5%，而 2008 年则达到了40.5%。

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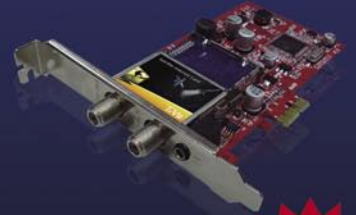
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Manfred Weller, who comes from Cologne/Germany, arrived in Tenerife in the Canary Islands in 1987. He started as a time share salesman: tourists would purchase ownership in a vacation apartment for a certain time each year. But, as an electrician by 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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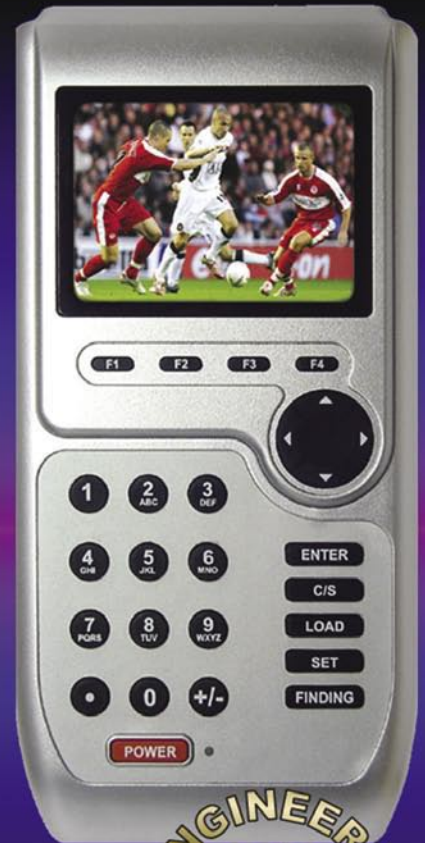
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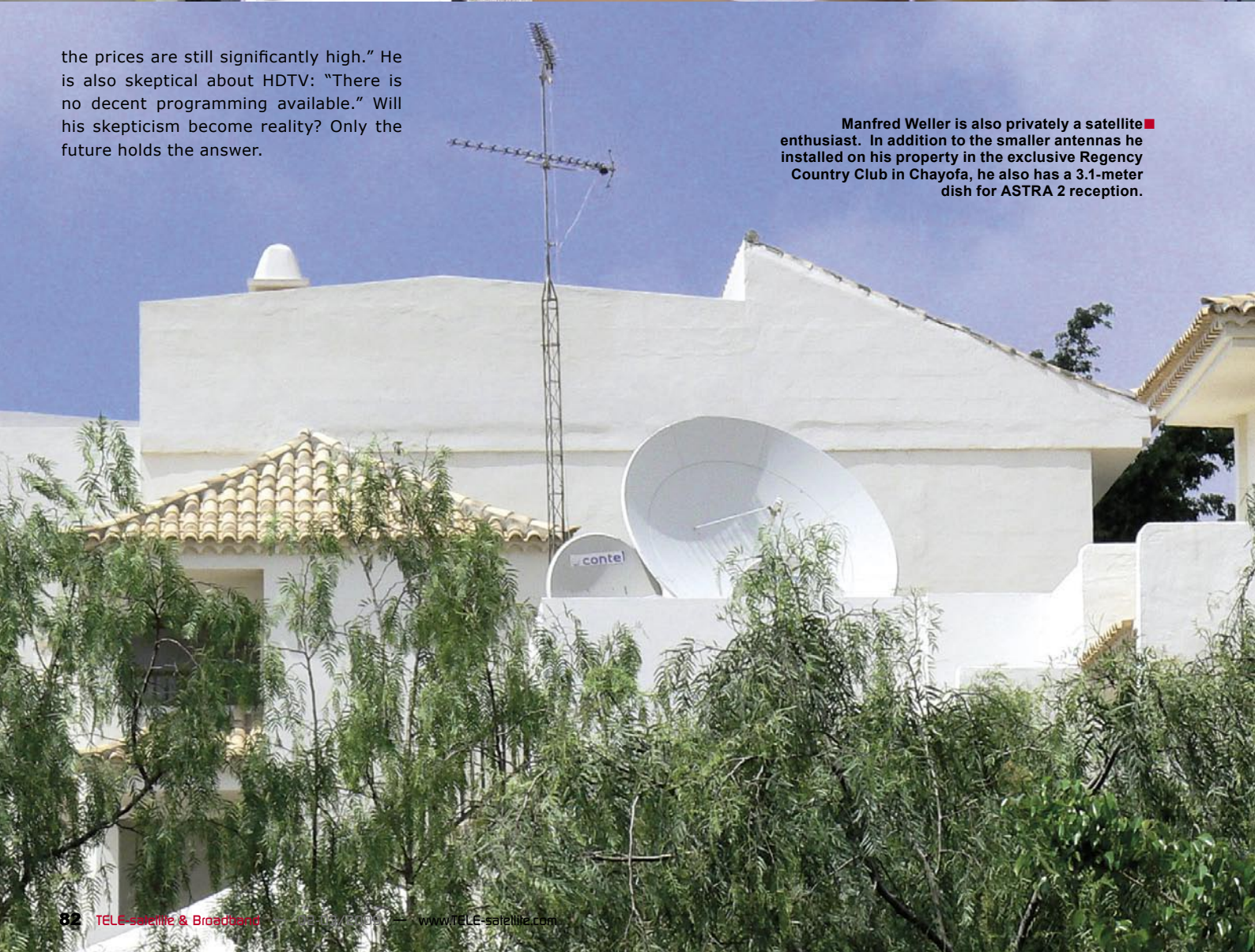
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Manfred Weller, nicknamed Menny, speaking with customers. After hanging up his landline telephone, it doesn't take long for his mobile phone to ring. He can speak with his customers fluently in three languages: German, English and Spanish. He has been 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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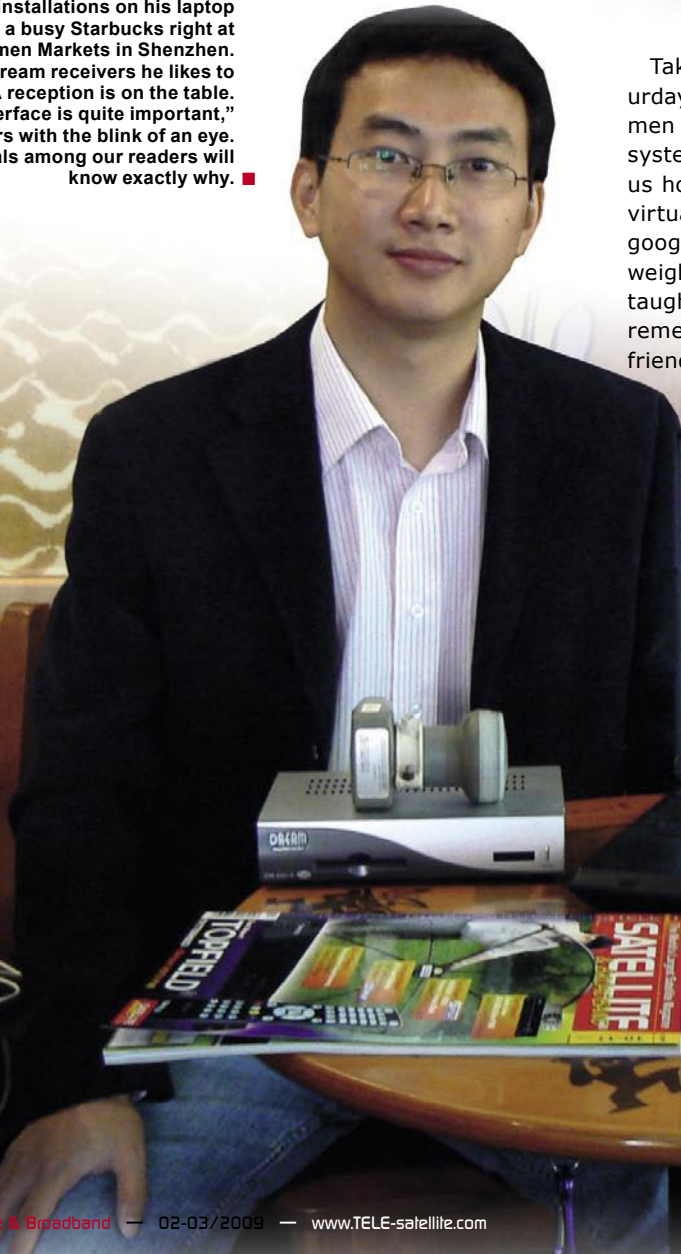
Shenzhen Satellites

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

TELIAISONERA RACHES 450,000 IPTV SUBSCRIBERS

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

AMINO ACQUIRES TILGIN'S IPTV BUSINESS

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

SPAIN

REGULATOR SUSPENDS TELEFONICA'S TRIPLE-PLAY

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

TELEFONICA LAUNCHES IMAGENIO HD

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

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

SWITZERLAND

SWISSCOM BLUEWIN TV ADDS HD VOD TITLES

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

TURKEY

SEACHANGE AND ARGELA TO BRING IPTV TO TURK TELEKOM

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

AIRTIES SELECTS OPERA FOR NEW IPTV STB

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

UNITED KINGDOM

BROADCASTERS TO LAUNCH HD ON DTT

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

BBC PLANS OPEN IPTV PLATFORM

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

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

BT VISION LAUNCHES CATCH-UP IPTV PLATFORM

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

SKY LAUNCHES ONLINE TV SERVICE

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

FOX SIGNS VOD/IPTV DEAL WITH BT VISION

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

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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

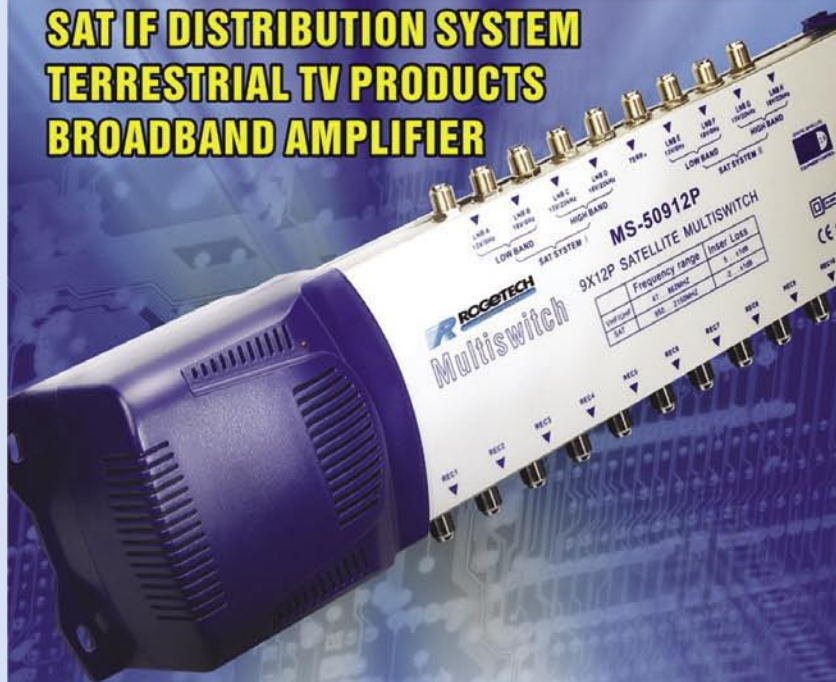
ENTONE SELECTED BY ITC FOR IPTV DEPLOYMENT

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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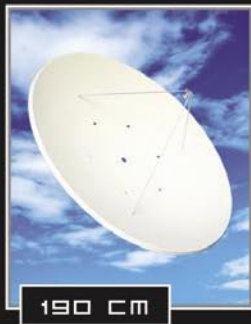
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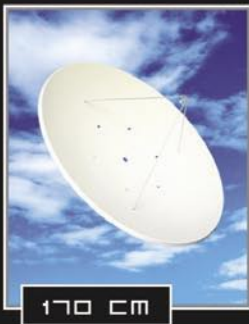
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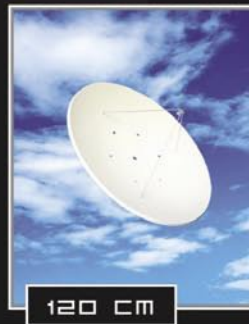
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TWIN LAKES TELEPHONE COOPERATIVE LAUNCHES IPTV TRIALS

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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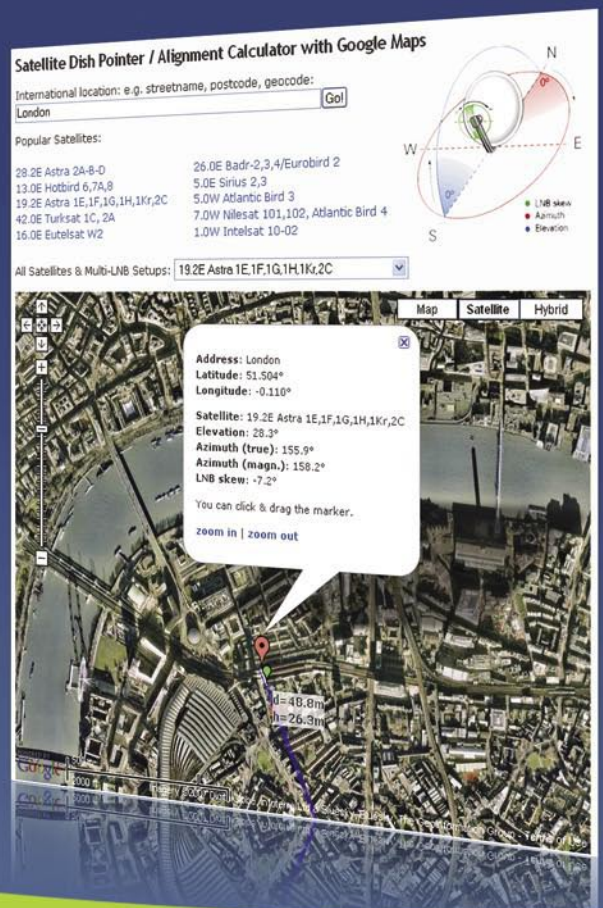
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JAPAN

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 Khruichev 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. Khruichev 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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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

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#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
11766 H UT-1	27500
11766 H KANAL UKRAINA	27500
11766 H TEST	27500
11766 H Channel 5 (Ukraine)	27500
11766 H GLAS	27500
11766 H KRT	27500
11766 H NOXY CHANNEL	27500
11766 H RADA	27500
11766 H Star TV UKR	27500
11766 H Love Radio	27500
11766 H RADIO ERA	27500
11766 H Radio Test	27500
11766 H RUI	27500
11766 H UR1	27500
11766 H UR2	27500
11766 H UR3	27500
11766 H OSK-Odesa	27500
11766 H ENTER	27500
11766 H ENTER-FILM	27500
11766 H INTER+	27500
11766 H SCI	27500
11766 H UBC	27500
11766 H Univermag	27500
11766 H Emmanuel	27500
11766 H Antena 3	27500
11766 H AXN	27500
11766 H AXN Crime	27500
11766 H AXN SciFi	27500
11766 H Da Vinci Learning	27500
11766 H Euforia Lifestyle	27500
11766 H Eurosport	27500
11766 H Kanal D	27500
11766 H MTV	27500
11766 H OTV	27500
11766 H Prima TV	27500
11766 H Realitatea	27500
11766 H TV Sport	27500
11766 H TVR 1	27500
11766 H TVR 2	27500
11766 H TVR3	27500
11766 H AKIA Info	27500
11766 H ProfM	27500
11766 H InfoPro	27500
11766 H Radio SON	27500
11766 H Romantic	27500
11766 H Boomerang	27500
11766 H Cartoon Network	27500
11766 H Eurosport 2	27500
11766 H Hallmark	27500
11766 H Jetix	27500
11766 H Jetix Play	27500
11766 H Minimax	27500
11766 H Movies 24	27500
11766 H Romantica	27500
11766 H TCM	27500
11766 H Test	27500
11766 H TV Cultural	27500
11766 H Canal Teleplus	27500
11766 H MTV NO	27500
11766 H Ticket	27500
11766 H TV2 Kanaalen	27500
11766 H TV4 Film	27500
11766 H TV4 Plus	27500
11766 H TV400	27500
11766 H Viassa History	27500
11766 H Viassa Sport 2	27500
11766 H Antena 1	27500
11766 H Antena 2	27500
11766 H Antena 3	27500
11766 H AXN	27500
11766 H AXN Crime	27500
11766 H AXN SciFi	27500
11766 H Da Vinci Learning	27500
11766 H Euforia Lifestyle	27500
11766 H Eurosport	27500
11766 H Kanal D	27500
11766 H MTV	27500
11766 H OTV	27500
11766 H Prima TV	27500
11766 H Realitatea	27500
11766 H TV Sport	27500
11766 H TVR 1	27500
11766 H TVR 2	27500
11766 H TVR3	27500
11766 H AKIA Info	27500
11766 H ProfM	27500
11766 H InfoPro	27500
11766 H Radio SON	27500
11766 H Romantic	27500
11766 H Boomerang	27500
11766 H Cartoon Network	27500
11766 H Eurosport 2	27500
11766 H Hallmark	27500
11766 H Jetix	27500
11766 H Jetix Play	27500
11766 H Minimax	27500
11766 H Movies 24	27500
11766 H Romantica	27500
11766 H TCM	27500
11766 H Test	27500
11766 H TV Cultural	27500
11766 H Canal Teleplus	27500
11766 H MTV NO	27500
11766 H Ticket	27500
11766 H TV2 Kanaalen	27500
11766 H TV4 Film	27500
11766 H TV4 Plus	27500
11766 H TV400	27500
11766 H Viassa History	27500
11766 H Viassa Sport 2	27500

EUROBIRD 4 004.0° East

12418 H Intertrack-Data To	27500
12418 H SIS Channel	27500
12418 H LADROKES IP DATA	27500
12418 H LTEST	27500
12418 H SIS RACING - GERM	27500
12418 H SIS RACING - 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
12418 H STAN JAMES	27500
12418 H TEMP LADROKES EI	27500
12418 H TEST1	27500
12418 H TOTE - SIRIUS	27500
12418 H TOTE SIS AUDIO AN	27500
12418 H VIDEO AUDIO AN	27500
12418 H H WHO IUP CLEAR	27500
12418 H H WILLIAM HILL - SI	27500
12418 H ALT VC 11	27500
12418 H ALT VC 140	27500
12418 H ALT VC 145	27500
12418 H ALT VC 20	27500
12418 H ALT VC 29	27500
12418 H ALT VC 40	27500
12418 H ALT VC 49	27500
12418 H ALT VC 59	27500
12418 H ALT VC 59	27500
12418 H ALT VC 59	27500
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 WILLIAM HILL - SI	14463
12637 H TV1000 Poland (FSS)	14463
12637 H Viassa History (FSS)	14463

EUROBIRD 4 005.0° East

11717 H TV4	27500
11717 H Alisvenskan 1	27500
11717 H Alisvenskan 2	27500
11717 H Alisvenskan 3	27500
11717 H Alisvenskan 4	27500
11717 H AXN SciFi	27500
11717 H Viassa Xtra 1	27500
11717 H Viassa Xtra 2	27500
11717 H Viassa Xtra 3	27500
11717 H Viassa Xtra 4	27500
11717 H Viassa Xtra 5	27500
11717 H Viassa Xtra 6	27500
11717 H SVT1 ABC	27500
11717 H SVT2 Gvavedala	27500
11717 H SVT1 Miltynyt	27500
11717 H SVT1 Norynnytt	27500
11717 H SVT1 Reg	27500
11717 H SVT1 Smlandsnytt	27500
11717 H SVT1 TVR3	27500
11717 H SVT1 TVarsnytt	27500
11717 H SVT1 Varnlandsnytt	27500
11717 H SVT1 Vasterbottenytt	27500
11717 H SVT1 SVT2 Gvavedala	27500
11717 H SVT1 SVT2 Miltynyt	27500
11717 H SVT1 SVT2 Norynnytt	27500
11717 H SVT1 SVT2 Reg	27500
11717 H SVT1 SVT2 Smlandsnytt	27500
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11717 H SVT1 SVT2 Varnlandsnytt	27500
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11717 H SVT1 SVT2 Gvavedala	27500
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11717 H SVT1 SVT2 TVR3	27500
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11717 H SVT1 SVT2 Varnlandsnytt	27500
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11717 H SVT1 SVT2 Gvavedala	27500
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11717 H SVT1 SVT2 Norynnytt	27500
11717 H SVT1 SVT2 Reg	27500
11717 H SVT1 SVT2 Smlandsnytt	27500
11717 H SVT1 SVT2 TVR3	27500
11717 H SVT1 SVT2 TVarsnytt	27500
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11717 H SVT1 SVT2 Gvavedala	27500
11717 H SVT1 SVT2 Miltynyt	27500
11717 H SVT1 SVT2 Norynnytt	27500
11717 H SVT1 SVT2 Reg	27500
11717 H SVT1 SVT2 Smlandsnytt	27500
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11717 H SVT1 SVT2 TVarsnytt	27500
11717 H SVT1 SVT2 Varnlandsnytt	27500
11717 H SVT1 SVT2 Vasterbottenytt	27500
11717 H SVT1 SVT2 Gvavedala	27500
11717 H SVT1 SVT2 Miltynyt	27500
11717 H SVT1 SVT2 Norynnytt	27500
11717 H SVT1 SVT2 Reg	27500
11717 H SVT1 SVT2 Smlandsnytt	27500
11717 H SVT1 SVT2 TVR3	27500
11717 H SVT1 SVT2 TVarsnytt	27500
11717 H SVT1 SVT2 Varnlandsnytt	27500
11717 H SVT1 SVT2 Vasterbottenytt	27500
11717 H SVT1 SVT2 Gvavedala	27500
11717 H SVT1 SVT2 Miltynyt	

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 MiniSat	29950	11536 H G SPORT ONE	30000	11534 V LCI	27500	12070 H RFL PASSION	27500	12405 V DELUXE MUSIC	27500	12402 V DMAX	27500
11513 V Radio K	29950	11536 H Hotshot	30000	11534 V PLANETE	27500	12070 H P-BOER70ER	27500	12405 V DELUXE MUSIC	27500	12402 V PLANETE NO LIMIT	27500
11513 V RF	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 Vocea Evangheliei	29950	11536 H W9	30000	11534 V PLANETE TV	27500	12070 H P-BOER100ER	27500	12405 V DELUXE MUSIC	27500	12402 V REAL TIME	27500
11554 V B2	30000	11536 H M6 Music Hits	30000	11534 V TUI	27500	12070 H P-BOER120ER	27500	12405 V DELUXE MUSIC	27500	12402 V Real TV	27500
11554 V Cinemania	30000	11536 H M6 Music Black	30000	11534 V TMC	27500	12070 H P-BOER140ER	27500	12405 V DELUXE MUSIC	27500	12402 V Radio Bremen TV	27500
11554 V Doq	30000	11536 H M6 Music Hits	30000	11534 V VOYAGE	27500	12070 H P-BOER160ER	27500	12405 V DELUXE MUSIC	27500	12402 V Radio Bielefeld	27500
11554 V Enter	30000	11536 H M6 Music Hits	30000	11534 V MTV ENTERTAINMENT	27500	12070 H P-BOER180ER	27500	12405 V DELUXE MUSIC	27500	12402 V Radio Dortmund	27500
11554 V Film +	30000	11536 H M6 Music Hits	30000	11534 V MTV EURO	27500	12070 H P-BOER200ER	27500	12405 V DELUXE MUSIC	27500	12402 V Radio Essen	27500
11554 V Happy/Kosava	30000	11536 H M6 Music Hits	30000	11534 V MTV IDOL	27500	12070 H P-BOER220ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Münster	27500
11554 V HBO Adria	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER240ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Siegen	27500
11554 V RTS1	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER260ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
11554 V RTS2	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER280ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
11554 V SOS	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER300ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
11554 V Sport Klub	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER320ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
11554 V Studio 5	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER340ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
11554 V Super TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER360ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
11554 V Ultra TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER380ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12530 V B2	2156	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER400ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12530 V BN Rsrpska	4340	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER420ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12530 V DM SAT	2156	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER440ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12529 V first_service	2934	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER460ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12600 V ATLAS	6771	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER480ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12600 V RTV MONTENEGRO	6771	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER500ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12600 V RTV ATLAS	6771	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER520ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12600 V Radio Montenegro	6771	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER540ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12648 V BH-Radio1	5200	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER560ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12650 V CH 4 - SNAJ TV promo	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER580ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12650 V 77-AUDIO UNICOL	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER600ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12650 H CH 10 - UNIRE BLU	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER620ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12650 H CH 20 - U VERDE S	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER640ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12650 H CH 4 - SNAJ TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER660ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12650 H CH 6 - U GRIGIO S	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER680ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12650 H CH 7 - SPORTIVE S	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER700ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12650 H UNIRE 1 - GRIGIO	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER720ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12650 H UNIRE 2 - GRIGIO	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER740ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12650 H CH 3 - CANALE TES	15000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER760ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Kanal A	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER780ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V POP TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER800ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Sportklub Slovenija	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER820ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V TV Pika	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER840ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V TV Slovenia	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER860ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V ALFA TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER880ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V ART Channel	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER900ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V ASTRO TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER920ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Duga TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER940ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Estate TV & TVI	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER960ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V HPhop TV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER980ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V InfolTV	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1000ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Radio SvetPlus	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1020ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V StatističVestestest	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1040ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Svet Plus	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1060ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Test	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1080ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V TV 24 SAT	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1100ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V TV Jasmin	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1120ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V GRAND	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1140ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Kriko Romengo	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1160ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V KISS DONA WLASKI	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1180ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V KISS RADIO - MINH	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1200ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V KISS ROK RADIO -	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1220ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V LUEBA NAKA	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1240ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V LUBJICA-KAMENJE	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1260ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V M6 MITIC BILJANA	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1280ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V MKS RADIO	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1300ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Miroslav Radio	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1320ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V ORV Valentino BH	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1340ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V PLANET MUSIC	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1360ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Radio 1	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1380ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Radio BROCKO	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1400ER	27500	12405 V DELUXE MUSIC	27500	12402 WDR Trier	27500
12726 V Radio Brod	30000	11536 H M6 Music Hits	30000	11534 V MTV MUSIC	27500	12070 H P-BOER1420ER					

Main table containing satellite coverage data with columns for Freq Pol Channel Name, Symbol rate, GHz, and Symbol rate. Includes sub-sections for EUROIRD 2, EUROIRD 2.025.5° East, and BADR-3/BADR-4.



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

11.823 V Algeria 27500

11.823 V Bouyt Moalmeena 27500

11.823 V Enteria 27500

11.823 V Enteria 27500

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11.823 V Enteria 27500

http://www.SatcoDX.com/0215 Coverage Code AST03AKU

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

http://www.SatcoDX.com/0255 Coverage Code EU0027B

11.012 H BLOOMBERG 27500

11.012 H BLOOMBERG 27500

11.012 H BLOOMBERG 27500

11.012 H BLOOMBERG 27500

11.012 H BLOOMBERG 27500

11.012 H BLOOMBERG 27500

11.012 H BLOOMBERG 27500

11.012 H BLOOMBERG 27500

11.012 H BLOOMBERG 27500

http://www.SatcoDX.com/0260 Coverage Code BADR04KB

11.823 V Allmanar 27500

11.823 V Allmanar 27500

11.803 H TEST3 22000

11.803 H TEST3 22000

11.803 H TEST3 22000

11.012 H BLOOMBERG 27500

11.012 H BLOOMBERG 27500

11.012 H BLOOMBERG 27500

11.823 V Allmanar 27500

11.823 V Allmanar 27500

11.823 V Allmanar 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	11.859 V KIBRIS BENC TV	2960	11.980 V Z TV	4150	11.766 H TURKSAZ TEST 7	27500	11.843 H ESPN CLASSIC	27500	11.973 V HALY	27500
11.892 H NTV Spd	12800	11.892 V MNC TURK	2960	11.980 V ZAZANTEP OLAY	22000	11.766 H UNIA	27500	11.843 H ESCORT	27500	11.973 V Kanal Avrupa	27500
11.892 H NTV Radyo	12800	11.892 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 V BERAT	27500
11.892 H NTV Eksen	12800	11.892 V FIRST FM	2960	11.102 V D COÇUK	30000	11.766 H ALFORAT	27500	11.843 H WORLD	27500	11.973 V HALY	27500
11.905 H KANAL D	6666	11.905 V Servis 2	2960	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.843 H CALENDAR NETWORK	27500	11.973 V Kanal Avrupa	27500
11.905 H SMART HITS	6666	11.905 V KONTY	2200	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.843 H D SHOPPING	27500	11.973 V TGRTR FM	27500
11.905 H SMART JAZZ	6666	11.905 V ASIO	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.843 H FASHION TV	27500	11.973 V (Empty Name)	5200
11.905 H SMART OLDSIES	6666	11.905 V DEM	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.843 H KANAL D	27500	11.973 H NIKELBOUR	27500
11.905 H SMART ROCK	6666	11.905 V DugumTV	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.843 H TV STAR	27500	11.973 H TGRTR TURK	27500
11.905 H SMART SLOW	6666	11.905 V KANAL 12	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.843 H TV 35	27500	11.973 H Radio-5	27500
11.905 H IRADYO PORTAL	6666	11.905 V KANAL 12	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H YON FM	27500
11.905 H RADYO D	6666	11.905 V KANAL 12	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V Tarafar TV	4444	11.973 H A-Elkhabria	27500
11.924 H ANKA TV	3333	11.905 V KANAL 12	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi Sport	27500
11.970 H EUROSPORT HD	17900	11.905 V M-ON	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V Smart	4444	11.973 H Saudi-2	27500
11.970 H HDTV SMART	17900	11.905 V Manolya TV	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
11.970 H DISCOVERY HD	17900	11.905 V MAVI KARADENIZ	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
11.970 H KANAL D HD	17900	11.905 V KONTY	2200	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
11.970 H Nickelodeon	4000	11.905 V TURKISH PROM	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
11.984 H MTV TURKEY	4000	11.905 V TV 5 Int	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.002 H atv	4800	11.905 V TURKISHOP	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.008 H KANAL 1	4400	11.905 V YoTV	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.008 H Intercom	4400	11.905 V DEM RADYO	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.008 H MARMARA RADYO	4400	11.905 V KUFE FM	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.015 H TGRTR Haber	4800	11.905 V Metro FM	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.015 H TGRTR Pazartema	4800	11.905 V Super FM	26000	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.028 H ANKA TV	3333	12.028 V KANAL INT	6666	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.028 H FOX	5380	12.028 V tv	6666	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.028 H samanyolu tv	4557	12.028 V ULKE TV	6666	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.028 H Bure FM	4557	12.028 V ...	6666	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.028 H NTV Radyo	4557	12.028 V RADYO 7	6666	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.028 H Haber Radyo	4557	12.028 V BUSINESS	3333	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.127 H Blnko TV	7400	12.127 V NUMBER ONE TV	4444	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.127 H Denge TV	7400	12.127 V TURKSAZ TANTIM	3333	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.127 H Ekin TV	7400	12.127 V NUMBER ONE FM	4444	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.127 H Elin TV	7400	12.127 V POLIS RADYO SU	4444	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.127 H ILAN TV	7400	12.127 V RADYO KLAS	4444	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.127 H IMAN TV	7400	12.127 V RADYO MUYDONOSE	2800	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.127 H Piny	7400	12.127 H AZAD AZERBAJAN	4444	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.127 H Kanal 6	7400	12.127 H ASTRO	3703	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500
12.127 H ASTRO	3703	12.127 H FASIL	3703	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V AKILLI TV	4444	11.973 H Saudi-2	27500
12.127 H ALJAZEER	2222	12.127 H ALJAZEER	2222	11.102 V D COÇUK	30000	11.766 H POLIS RADYO SU	27500	11.844 V CluP TV	4444	11.973 H Saudi-2	27500

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
12.553 H Viva	8888	11.977 H DISCOVERY	27500	11.996 V Mjude Akdeniz	26000	11.591 V Star Movies	27689	11.044 V Radio CH53	44950	4.055 R Sawa N. Africa Radio	26000
12.553 H Nesali TURK	8888	11.977 H NIGEL	27500	11.996 V Mjude Radyo Fige	26000	11.591 V Star World	27689	11.044 V Radio CH53	44950	4.055 R Sawa Sudan Radio 455	26000
12.553 H Radyo Viva	8888	11.977 H NICKLEODEON	27500	11.996 V Oqsur Radyo Ankara	26000	11.591 V Star World	27689	11.095 V NTN	6400	4.055 R VOJ Dibouti/Farda	26000
12.553 H Show Radyo	8888	11.977 H KANAL 7	27500	11.996 V RADYO	26000	11.591 V Zee Cinema	27689	11.095 V RUT	6400	4.055 R VOA Sawa Iradi	26000
12.553 H Rastu2	8888	11.977 H KANAL 7	27500	11.996 V RADYO SAHIN	26000	11.591 V Zee Cinema	27689	11.095 V UTR	6400	4.055 R VOA/SAWA Levant R	26000
12.559 V BERAT	27500	12.002 H ATV Turkiye	4800	11.996 V RADYO TATLISES	26000	11.632 V CH 18	27689	11.161 V STV	5785	4.055 R RTI Kabon	27500
12.559 V HALAY	27500	12.008 H Kanal 1	4400	11.996 V Radyo Time	26000	11.632 V Bloomberg	27689	12.664 V ART-Feed	30000	4.055 R RTI Langues1	27500
12.597 V Kanal Avrupa	27500	12.008 H Turc K	4400	11.996 V Radyo Vatn	26000	11.632 V Boomerang	27689	12.664 V CH2-SCR	30000	4.055 R RTI Langues2	27500
12.601 H KANAL A	4400	12.017 H RTGRT Haber TV	8150	12.016 V HADIS 7	6665	11.632 V EuroStudio	27689	12.664 V JSC-Feed	30000	4.055 R RTI Langues3	27500
12.602 H KANAL A	4400	12.017 H RTGRT Pazarlama TV	8150	12.126 V KANAL7	6665	11.632 V Kalaignar TV	27689	12.664 V ERTU	30000	4.055 R RTI Russia	27500
12.602 H KANAL A	4400	12.017 H Blank audio channel	8150	12.126 V tv	6665	11.632 V UTV Movies	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.607 H OLAY TV LF M	2950	12.017 H RTGRT FM	8150	12.126 V ISTANBUL SESI	6665	11.632 V UTV World	27689	12.664 V Feed-2	30000	4.055 R RTI Wusout	27500
12.609 V IMEDI TV	3700	12.028 H Samanyolu TV	4557	12.126 V RADYO M-R7	6665	11.632 V CH 11	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.615 V atv Avrupa	4800	12.134 V Audio tests	4557	12.141 V EAS PROMO	4442	11.632 V CH 12	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.615 V TURKUVAZ	4800	12.028 H Bure FM	4557	12.141 V NUMBER ONE TV TES	4442	11.632 V CH 13	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.615 V	4800	12.028 H Dinyas Radyo	4557	12.141 V TURKAS TEST 2	4442	11.632 V CH 14	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.615 V atv radyo	4800	12.134 V Video tests	4557	12.141 V NUMBER ONE FM	4442	11.632 V CH 15	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V YENI ASIR TV	2400	12.141 V RADYO KLAS	4442	12.141 V RADYO NYDONSE	2222	11.632 V CH 16	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 17	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 18	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 19	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 20	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 21	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 22	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 23	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 24	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 25	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 26	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 27	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 28	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 29	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 30	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 31	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 32	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 33	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 34	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 35	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 36	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 37	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 38	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 39	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 40	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 41	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 42	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 43	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 44	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 45	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 46	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 47	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 48	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 49	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 50	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 51	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 52	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 53	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 54	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 55	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 56	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 57	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 58	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 59	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 60	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 61	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 62	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 63	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 64	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 65	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 66	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 67	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 68	27689	12.664 V ESCA	30000	4.055 R RTI Wusout	27500
12.620 V MPTV	2222	12.141 V RADYO NYDONSE	2222	12.141 V RADYO NYDONSE	2222	11.632 V CH 6					



Międzynarodowe Targi Poznańskie Poznań International Fair

meet the future



POZNAŃ MEDIA EXPO 2009

Date: 19-21 February 2009
Venue: Poznań International Fair – Pavilion 3
Planned number of visitors – 12,000

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3.551 H RAAD TV 13333	3.432 V Nepal Television 2 6664	3.991 V IMAYAM 13330	11.606 V ITVRUS CIS 44948
3.551 H TRT INT 13333	3.449 H FTV HD 13330	3.991 V INDIASIGN TEST6 13330	11.606 V Neo Music 44948
3.551 H Hornafrik Radio 13333	3.449 H God Greater China 13330	3.991 V SHAKTI 13330	11.606 V Epikaz TB 44948
3.551 H Radyo2 (TRT FM) 13333	3.449 H Teat 13330	3.991 V SS MUSIC 13330	11.606 V Kera 44948
3.551 H TRK Turkey 13333	3.449 H Teat 13330	3.991 V TARA PUNJABI 13330	CENTREX EXPRESS AM2 44948
3.551 H VOT World 13333	3.449 V AVENUE2 2222	4.005 V Indiasign Test 6665	80.1 East
3.564 H VTV 4444	3.454 V TV9 Cambodia 3333	4.005 V TARA MUZIK 6665	EXPANZOR
3.600 H S-LAND 26670	3.454 V TV9 Cambodia 3333	4.005 V TV Southasia 6665	EXPANZOR
3.600 H ACE CHANNEL 26670	3.454 V TV9 Cambodia 3333	4.109 V KTN-KARACHI 9600	EXPANZOR
3.600 H Big Brother 26670	3.454 V TV9 Cambodia 3333	4.136 V Aparsa TV 4443	EXPANZOR
3.600 H DMC 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H PEAK CHANNEL 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H SINDHI TV 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H SLNTV 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H THAIOM 13 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H THAIOM 10 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H THAIOM 4 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H THAIOM 3 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H THAIOM 15 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H TV5 Global 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H Vibe 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H VTV 26670	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.600 H TGN Radio 2500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.609 V MRTV 2500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.617 V S-CARTOONS 12500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.617 V S-MOVIES 12500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.617 V S-SERIES 12500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.617 V CNN 12500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.617 V ESPN 12500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.617 V NDC WILD 12500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.617 V STAR SPORTS 12500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.617 V MRTV 12500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.617 V MRTV-4 12500	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.617 V FM RADIO 12600	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H RADIO 2 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H BABY TV 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H Svt Europa 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H JABN International 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H RKN 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H DAYSTAR 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H HCTV 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H KURDAST 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H LLEN TV 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H Russia Today 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H TCT 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H TELEMEDIA 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H The Word Network 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H UNIV TV 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H JABN RADIO 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H CVC 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H Overcomer Radio 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H RW-1 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H RW-2 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H RW-3 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H RW-4 (VRT) 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H Swedish Radio 1 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H Swedish Radio 2 28062	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.640 H SKY1 5000	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.711 V GOA NEWS 13330	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.711 V HARYANA NEWS 13330	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.711 V PUNJAB TODAY 13330	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.711 V UP News 13330	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.731 V (Empty Name) 2412	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.760 V 7 Star Care 26660	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.760 V Sanskar 26660	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
THAIOM5R	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.421 V SCOPUS-NETCEOR 6666	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.421 V SCOPUS-NETCEOR 6666	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR
3.432 V Nepal Television 1 6664	3.454 V TV9 Cambodia 3333	4.136 V TV5 Cambodia 4443	EXPANZOR

3.991 V IMAYAM 13330	11.606 V ITVRUS CIS 44948	India	3.936 H SWM 10100
3.991 V INDIASIGN TEST6 13330	11.606 V Neo Music 44948	INSAT 3B 4A	3.936 H NewX 10100
3.991 V SHAKTI 13330	11.606 V Epikaz TB 44948	83.0 East	3.950 H DY365 3223
3.991 V SS MUSIC 13330	11.090 H Aastha 27500	INSAT 2E 83.0° East	3.975 H GUJRATI 13330
3.991 V TARA PUNJABI 13330	11.090 H Channel V 27500	C-Band	3.975 H LEHREN 13330
4.005 V Indiasign Test 6665	11.090 H DD Punjab 27500	Zone beam	3.975 H MUMBAI 13330
4.005 V TARA MUZIK 6665	11.090 H Discovery T & L 27500	36 18 37	3.975 H NCR 13330
4.005 V TV Southasia 6665	11.090 H Fashion TV 27500	INSAT 2E 83.0° East	3.975 H SANSKRUTI 13330
4.109 V KTN-KARACHI 9600	11.090 H HMTV 27500	C-Band	3.975 H ZEE NEXT 3000
4.136 V Aparsa TV 4443	11.090 H Nat Geo 27500	Zone beam	4.004 H ETV Gujrat 22210
4.136 V TV5 Cambodia 4443	11.090 H UTV 27500	36 18 37	4.004 H ETV 22210
4.136 V TV5 Cambodia 4443	11.090 H Zee Trendz 27500	INSAT 2E 83.0° East	4.004 H ETV Bengali 22210
4.136 V TV5 Cambodia 4443	11.090 H CNN 27500	C-Band	4.004 H ETV Bihar 22210
4.136 V TV5 Cambodia 4443	11.090 H HD TV 27500	Zone beam	4.004 H ETV Orija 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV Madhya Pradesh 22210
4.136 V TV5 Cambodia 4443	11.090 H BBC WORLD 27500	INSAT 2E 83.0° East	4.004 H ETV Marathi 22210
4.136 V TV5 Cambodia 4443	11.090 H CNBC-TV18 27500	C-Band	4.004 H ETV Uttar Pradesh 22210
4.136 V TV5 Cambodia 4443	11.090 H CNN 27500	Zone beam	4.004 H ETV Rajasthan 22210
4.136 V TV5 Cambodia 4443	11.090 H Gemini News 27500	36 18 37	4.004 H ETV Telugu 22210
4.136 V TV5 Cambodia 4443	11.090 H HMTV 27500	INSAT 2E 83.0° East	4.004 H ETV Uttar Pradesh 22210
4.136 V TV5 Cambodia 4443	11.090 H MI MARATHI 27500	C-Band	4.004 H ETV Karnataka 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV Andhra Pradesh 22210
4.136 V TV5 Cambodia 4443	11.090 H HMTV 27500	36 18 37	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV Chhattisgarh 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	Zone beam	4.004 H ETV West Bengal 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	36 18 37	4.004 H ETV Odisha 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	INSAT 2E 83.0° East	4.004 H ETV Jharkhand 22210
4.136 V TV5 Cambodia 4443	11.090 H NDTV Profit 27500	C-Band	4.004 H ETV West Bengal 22210

Main table containing satellite data with columns for Freq Pol Channel Name, Symbol rate, GHz, and various satellite names like ASIASAT 2, ASIASAT 35, and ASIASAT 100.5° East.

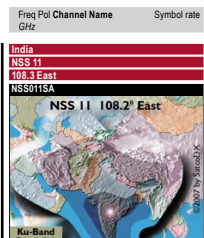


Table listing satellite channels for the ASIASAT 100.5° East satellite, including channel names like NSS10A and NSS II 108.2° East.

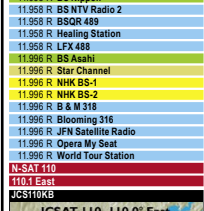


Table listing satellite channels for the ASIASAT 108° East satellite, including channel names like TELKOM1 and TELKOM1CB.



Table listing satellite channels for the ASIASAT 107.7° East satellite, including channel names like CAKRAWARTA and CAK001SB.



Table listing satellite channels for the ASIASAT 108.2° East satellite, including channel names like NSS II 108.2° East and NSS10C.

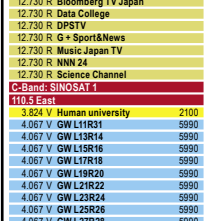


Table listing satellite channels for the ASIASAT 108.2° East satellite, including channel names like NSS10E and NSS10F.

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
4.067 V Lns Rzh8	5990	3.840 H CCTV-11	27500	4.375 V zht7 Stereo	5990	11558 R Skywave Info	24440	12.688 V Cinema R	21096	3.414 V VTV3	9768
4.067 V Lns Rjdy	5990	3.840 H CCTV-12	27500	4.192 V Hebei TV	6000	11558 R Sport Channel	24440	12.688 V Kinpa	21096	3.414 V VTV4	9768
4.067 V SW1 stereo	5990	4.192 V Hebei Radio2	27500	4.192 V Hebei Radio2	6000	11558 R Goal 2	24440	12.688 V Korea Pop	21096	3.414 V VTV5	9768
4.067 V SW2 stereo	5990	3.840 H CCTV-MUSIC	27500	4.192 V Hebei Radio3	6000	11727 R Happy Together	24437	12.688 V Korean Songs	21096	C-Band: APSTAR 6	
4.067 V ZH1 stereo	5990	3.840 H CCTV-MUSIC	27500	4.192 V Hebei Radio4	6000	11727 R Sky	24437	12.688 V Latin	21096	133.4 East	
4.067 V ZH2 stereo	5990	3.840 H CCTV-MUSIC	27500	4.192 V HebeiRadio5	6000	11727 R ANIMAX	24437	12.688 V MuzoTalk	21096	AP5006CB	
4.067 V ZH3 stereo	5990	3.840 H CCTV-MUSIC	27500	3.846 V SHANXI SAT TV	5950	11727 R AXN	24437	12.688 V Okinawa Music	21096	APSTAR 6 134.0 East	
4.067 V ZH4 stereo	5990	3.846 V SHANXI SAT TV	5950	3.846 V SHANXI TV	5950	11727 R BBC	24437	12.688 V Oldies	21096	C-Band	
4.067 V ZH5 stereo	5990	3.846 V SHANXI TV	5950	3.854 V Henan TV	4420	11727 R Bloomberg	24437	12.688 V R&B & Soul	21096	31 36 40	
4.067 V zht2 Stereo	5990	3.854 V Henan TV	4420	3.854 V Henan Radio2	4420	11727 R CCTV-4	24437	12.688 V Rock/Pop Artists 5	21096	130.0 East	
C-Band: CHINAPAC 2		3.854 V Henan Radio2	4420	3.854 V HN Radio2	4420	11727 R CCTV-9	24437	12.688 V Rock/Pop Artists 6	21096	AP5006CB	
3.765 H TVRI JKT	5555	3.854 V HN Radio4	4420	3.854 V HN Radio4	4420	11727 R ETTV Asia	24437	12.688 V Rock/Pop Artists 7	21096	C-Band	
3.774 H rct1	6520	3.854 V HN Radio5	4420	3.854 V HN Radio5	4420	11727 R Playboy	24437	12.688 V Rock/Pop Artists 8	21096	31 36 40	
3.774 H rct2	6520	3.861 V Ningxia TV	4800	3.861 V Ningxia Radio	4800	C-Band: ASIATASAT 4		12.688 V Rock/Pop Artists 9	21096	130.0 East	
3.774 H Trijaya Network	6520	3.871 V NLTV	9080	3.871 V NLTV	9080	ASI4004B		12.688 V Rock/Pop Artists 10	21096	130.0 East	
3.925 H Service 1	4208	3.871 V SKTVS	9080	3.871 V SKTVS	9080	ASI4004B		12.688 V Rock/Pop Artists 11	21096	130.0 East	
3.934 H PT SCTV IDJKT	6620	3.871 V SK-JingJi-BC	9080	3.871 V SK-JingJi-BC	9080	ASI4004B		12.688 V Rock/Pop Artists 12	21096	130.0 East	
3.935 V rct1	3000	3.871 V SK-XG/GS-BC	9080	3.871 V SK-XG/GS-BC	9080	ASI4004B		12.688 V Rock/Pop Artists 13	21096	130.0 East	
3.935 V rct2	3000	3.871 V SK-SK/SH-BC	9080	3.871 V SK-SK/SH-BC	9080	ASI4004B		12.688 V Rock/Pop Artists 14	21096	130.0 East	
3.936 V Trijaya Network	3000	3.871 V SK-XiQu-BC	9080	3.871 V SK-XiQu-BC	9080	ASI4004B		12.688 V Rock/Pop Artists 15	21096	130.0 East	
4.000 H PT SCTV IDJKT	6620	3.871 V SK-YinYu-BC	9080	3.871 V SK-YinYu-BC	9080	ASI4004B		12.688 V Rock/Pop Artists 16	21096	130.0 East	
4.000 H rct1	6620	3.880 H CCTV-3	27500	3.880 H CCTV-3	27500	ASI4004B		12.688 V Rock/Pop Artists 17	21096	130.0 East	
4.000 H rct2	6620	3.880 H CCTV-6	27500	3.880 H CCTV-6	27500	ASI4004B		12.688 V Rock/Pop Artists 18	21096	130.0 East	
4.000 H Trijaya Network	6620	3.880 H CCTV-8	27500	3.880 H CCTV-8	27500	ASI4004B		12.688 V Rock/Pop Artists 19	21096	130.0 East	
4.053 V ANTEVE	6510	3.880 H CCTV-9	27500	3.880 H CCTV-9	27500	ASI4004B		12.688 V Rock/Pop Artists 20	21096	130.0 East	
4.053 H ASIALINK	5640	3.880 H CCTV-10	27500	3.880 H CCTV-10	27500	ASI4004B		12.688 V Rock/Pop Artists 21	21096	130.0 East	
4.053 V ANTEVE	6510	3.880 H CCTV-11	27500	3.880 H CCTV-11	27500	ASI4004B		12.688 V Rock/Pop Artists 22	21096	130.0 East	
4.074 V PT SCTV IDJKT	6500	3.880 H CCTV-12	27500	3.880 H CCTV-12	27500	ASI4004B		12.688 V Rock/Pop Artists 23	21096	130.0 East	
4.074 V rct1	6500	3.880 H CCTV-13	27500	3.880 H CCTV-13	27500	ASI4004B		12.688 V Rock/Pop Artists 24	21096	130.0 East	
4.074 V rct2	6500	3.880 H CCTV-14	27500	3.880 H CCTV-14	27500	ASI4004B		12.688 V Rock/Pop Artists 25	21096	130.0 East	
4.074 V Trijaya Network	6500	3.880 H CCTV-15	27500	3.880 H CCTV-15	27500	ASI4004B		12.688 V Rock/Pop Artists 26	21096	130.0 East	
4.080 H CH10	28125	3.880 H CCTV-16	27500	3.880 H CCTV-16	27500	ASI4004B		12.688 V Rock/Pop Artists 27	21096	130.0 East	
4.080 H CH11	28125	3.880 H CCTV-17	27500	3.880 H CCTV-17	27500	ASI4004B		12.688 V Rock/Pop Artists 28	21096	130.0 East	
4.080 H CH3	28125	3.880 H CCTV-18	27500	3.880 H CCTV-18	27500	ASI4004B		12.688 V Rock/Pop Artists 29	21096	130.0 East	
4.080 H CH6	28125	3.880 H CCTV-19	27500	3.880 H CCTV-19	27500	ASI4004B		12.688 V Rock/Pop Artists 30	21096	130.0 East	
4.080 H CH7	28125	3.880 H CCTV-20	27500	3.880 H CCTV-20	27500	ASI4004B		12.688 V Rock/Pop Artists 31	21096	130.0 East	
4.080 H Global TV	28125	3.880 H CCTV-21	27500	3.880 H CCTV-21	27500	ASI4004B		12.688 V Rock/Pop Artists 32	21096	130.0 East	
4.080 H Global TV2	28125	3.880 H CCTV-22	27500	3.880 H CCTV-22	27500	ASI4004B		12.688 V Rock/Pop Artists 33	21096	130.0 East	
4.080 H MainTV	28125	3.880 H CCTV-23	27500	3.880 H CCTV-23	27500	ASI4004B		12.688 V Rock/Pop Artists 34	21096	130.0 East	
4.080 H SpaceOne	28125	3.880 H CCTV-24	27500	3.880 H CCTV-24	27500	ASI4004B		12.688 V Rock/Pop Artists 35	21096	130.0 East	
4.080 H 68H	28125	3.880 H CCTV-25	27500	3.880 H CCTV-25	27500	ASI4004B		12.688 V Rock/Pop Artists 36	21096	130.0 East	
4.080 H Antero	28125	3.880 H CCTV-26	27500	3.880 H CCTV-26	27500	ASI4004B		12.688 V Rock/Pop Artists 37	21096	130.0 East	
4.080 H BBC	28125	3.880 H CCTV-27	27500	3.880 H CCTV-27	27500	ASI4004B		12.688 V Rock/Pop Artists 38	21096	130.0 East	
4.080 H Delta FM	28125	3.880 H CCTV-28	27500	3.880 H CCTV-28	27500	ASI4004B		12.688 V Rock/Pop Artists 39	21096	130.0 East	
4.080 H Delta2 FM	28125	3.880 H CCTV-29	27500	3.880 H CCTV-29	27500	ASI4004B		12.688 V Rock/Pop Artists 40	21096	130.0 East	
4.080 H POP FM	28125	3.880 H CCTV-30	27500	3.880 H CCTV-30	27500	ASI4004B		12.688 V Rock/Pop Artists 41	21096	130.0 East	
4.080 H Pro2 FM	28125	3.880 H CCTV-31	27500	3.880 H CCTV-31	27500	ASI4004B		12.688 V Rock/Pop Artists 42	21096	130.0 East	
4.185 V TPI TV Makin Asyik	6700	3.880 H CCTV-32	27500	3.880 H CCTV-32	27500	ASI4004B		12.688 V Rock/Pop Artists 43	21096	130.0 East	
4.185 V R DanguDang TPI	6700	3.880 H CCTV-33	27500	3.880 H CCTV-33	27500	ASI4004B		12.688 V Rock/Pop Artists 44	21096	130.0 East	
3.925 V rct1	4208	3.880 H CCTV-34	27500	3.880 H CCTV-34	27500	ASI4004B		12.688 V Rock/Pop Artists 45	21096	130.0 East	
3.925 V rct2	4208	3.880 H CCTV-35	27500	3.880 H CCTV-35	27500	ASI4004B		12.688 V Rock/Pop Artists 46	21096	130.0 East	
3.925 V Service 1	4208	3.880 H CCTV-36	27500	3.880 H CCTV-36	27500	ASI4004B		12.688 V Rock/Pop Artists 47	21096	130.0 East	
3.925 V Trijaya Network	4208	3.880 H CCTV-37	27500	3.880 H CCTV-37	27500	ASI4004B		12.688 V Rock/Pop Artists 48	21096	130.0 East	
3.932 H PT SCTV IDJKT	6620	3.880 H CCTV-38	27500	3.880 H CCTV-38	27500	ASI4004B		12.688 V Rock/Pop Artists 49	21096	130.0 East	
4.054 H ASIALINK	5632	3.880 H CCTV-39	27500	3.880 H CCTV-39	27500	ASI4004B		12.688 V Rock/Pop Artists 50	21096	130.0 East	
4.054 H KATV	3000	3.880 H CCTV-40	27500	3.880 H CCTV-40	27500	ASI4004B		12.688 V Rock/Pop Artists 51	21096	130.0 East	
KORASAT 5		3.880 H CCTV-41	27500	3.880 H CCTV-41	27500	ASI4004B		12.688 V Rock/Pop Artists 52	21096	130.0 East	
12.458 H DIGITAL SNG	3072	3.880 H CCTV-42	27500	3.880 H CCTV-42	27500	ASI4004B		12.688 V Rock/Pop Artists 53	21096	130.0 East	
12.578 H EEC SAT HUB1	5200	3.880 H CCTV-43	27500	3.880 H CCTV-43	27500	ASI4004B		12.688 V Rock/Pop Artists 54	21096	130.0 East	
12.641 H FGV SAT	3700	3.880 H CCTV-44	27500	3.880 H CCTV-44	27500	ASI4004B		12.688 V Rock/Pop Artists 55	21096	130.0 East	
12.665 H MBC TV-LINK	3699	3.880 H CCTV-45	27500	3.880 H CCTV-45	27500	ASI4004B		12.688 V Rock/Pop Artists 56	21096	130.0 East	
12.731 H FSTV	28187	3.880 H CCTV-46	27500	3.880 H CCTV-46	27500	ASI4004B		12.688 V Rock/Pop Artists 57	21096	130.0 East	
12.731 H SANG S TV	28187	3.880 H CCTV-47	27500	3.880 H CCTV-47	27500	ASI4004B		12.688 V Rock/Pop Artists 58	21096	130.0 East	
12.731 H SkyCast 07	28187	3.880 H CCTV-48	27500	3.880 H CCTV-48	27500	ASI4004B		12.688 V Rock/Pop Artists 59	21096	130.0 East	
12.731 H SkyCast 08	28187	3.880 H CCTV-49	27500	3.880 H CCTV-49	27500	ASI4004B		12.688 V Rock/Pop Artists 60	21096	130.0 East	
12.731 H SkyCast 09	28187	3.880 H CCTV-50	27500	3.880 H CCTV-50	27500	ASI4004B		12.688 V Rock/Pop Artists 61	21096	130.0 East	
12.731 H SkyCast 10	28187	3.880 H CCTV-51	27500	3.880 H CCTV-51	27500	ASI4004B		12.688 V Rock/Pop Artists 62	21096	130.0 East	
12.731 H SkyCast 11	28187	3.880 H CCTV-52	27500	3.880 H CCTV-52	27500	ASI4004B		12.688 V Rock/Pop Artists 63	21096	130.0 East	
12.731 H SkyCast 12	28187	3.880 H CCTV-53	27500	3.880 H CCTV-53	27500	ASI4004B		12.688 V Rock/Pop Artists 64	21096	130.0 East	
12.731 H SkyCast 13	28187	3.880 H CCTV-54	27500	3.880 H CCTV-54	27500	ASI4004B		12.688 V Rock/Pop Artists 65	21096	130.0 East	
12.731 H SkyCast 14	28187	3.880 H CCTV-55	27500	3.880 H CCTV-55	27500	ASI4004B		12.688 V Rock/Pop Artists 66	21096	130.0 East	
12.731 H SkyCast 15	28187	3.880 H CCTV-56	27500	3.880 H CCTV-56	27500	ASI4004B		12.688 V Rock/Pop Artists 67	21096	130.0 East	
12.731 H SkyCast 16	28187	3.880 H CCTV-57	27500	3.880 H CCTV-57	27500	ASI4004B		12.688 V Rock/Pop Artists 68	21096	130.0 East	
12.731 H SkyCast 17	28187	3.880 H CCTV-58	27500	3.880 H CCTV-58	27500	ASI4004B		12.688 V Rock/Pop Artists 69	21096	130.0 East	
12.731 H SkyCast 18	28187	3.880 H CCTV-59	27500	3.880 H CCTV-59	27500	ASI4004B		12.688 V Rock/Pop Artists 70	21096	130.0 East	
12.731 H SkyCast 19	28187	3.880 H CCTV-60	27500	3.880 H CCTV-60	27500	ASI4004B		12.688 V Rock/Pop Artists 71	21096	130.0 East	

SatcoDX Global Satellite Chart 02/2009

Freq Pol Channel Name Symbol rate
GHz

C-Band: INTELSAT 8
166.0° East

C-Band
29 35 41

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

3.740 H MTV Asia	27500
3.740 H MTV Mandarin	27500
3.740 H MTV Philippines	27500
3.740 H MTVNA	27500
3.740 H Nick Japan	27500
3.740 H Nick NZ	27500
3.740 H MTV China	27500

Freq Pol Channel Name Symbol rate
GHz

INTELSAT 8 166.0° East

C-Band
29 35 41

<http://www.SatcoDX.com/1660>
INT005CB

3.850 V KBS WORLD N	6507
3.850 V YTN	6507
3.850 V ENT & Radio	5632
3.850 V Radio Services	5632
3.850 V ArirangTV W2	4400
3.850 V Asia	17500
3.833 V TVBS-M	17500
3.833 V TVBS	17500
3.833 V UTILITY	17500
3.833 V Audio Only	17500
3.880 V A copy of ANC static	28700
3.880 V A copy of TFC 1 cabl	28700
3.880 V ABS-CBN halian	28700
3.880 V ABS-CBN 1 cable	28700
3.880 V ANC station	28700
3.880 V Channel 17	28700
3.880 V channel 2	28700
3.880 V Cinema 1 cable	28700
3.880 V Cinema Global	28700
3.880 V HERO Channel	28700
3.880 V LIFESTYLE Cable	28700
3.880 V MYX cable	28700
3.880 V OS Download Channel	28700
3.880 V PinyoCentral TV	28700
3.880 V PinyoCentral TV Kids	28700
3.880 V Studio 23 cable	28700
3.880 V TFC 1 cable	28700
3.880 V Knowledge Channel ca	28700
3.880 V PBB	28700
3.880 V DZMM international	28700
3.880 V DZMM local	28700
3.880 V DWRR international	28700
3.880 V DWRR local	28700
3.880 V MOR Feed	28700
3.940 V MBC 1	4613
3.920 V ORN Radio	3426
3.880 H ENT & Radio	5632
3.880 H Radio Services	5632
3.880 H ArirangTV W2	4400
3.880 H A copy of ANC static	28700
3.880 H A copy of TFC 1 cabl	28700
3.880 H ABS-CBN halian	28700
3.880 H ABS-CBN 1 cable	28700
3.880 H ANC station	28700
3.880 H Channel 17	28700
3.880 H channel 2	28700
3.880 H Cinema 1 cable	28700
3.880 H Cinema Global	28700
3.880 H HERO Channel	28700
3.880 H LIFESTYLE Cable	28700
3.880 H MYX cable	28700
3.880 H OS Download Channel	28700
3.880 H PinyoCentral TV	28700
3.880 H PinyoCentral TV Kids	28700
3.880 H Studio 23 cable	28700
3.880 H TFC 1 cable	28700
3.880 H Knowledge Channel ca	28700
3.880 H PBB	28700
3.880 H DZMM international	28700
3.880 H DZMM local	28700
3.880 H DWRR international	28700
3.880 H DWRR local	28700
3.880 H MOR Feed	28700

Freq Pol Channel Name Symbol rate
GHz

INTELSAT 8 166.0° East

C-Band
29 35 41

<http://www.SatcoDX.com/1660>
Coverage Code: INT008KA

12.266 H Animal Planet	28800
12.266 H Canal Sur	28800
12.266 H Discovery HH	28800
12.266 H Discovery RT	28800
12.266 H Discovery Scy	28800
12.266 H Discovery TV	28800
12.266 H Enews Es	28800
12.266 H Enews Italy	28800
12.266 H Euronews	28800
12.266 H LateLondo World	28800
12.266 H Leonardo World	28800
12.266 H PGM 206	28800
12.266 H PGM 208	28800
12.266 H PGM 213	28800
12.266 H RAI Italia	28800
12.266 H TV Uruguay	28800
12.266 H Wine TV	28800
12.266 H Zetland	28800
12.326 H Movie One	28800
12.326 H El Ent	28800
12.326 H Movie Ex	28800
12.326 H Movie Gc	28800
12.326 H Movie Two	28800
12.326 H MTV	28800
12.326 H Nat-Geographic	28800
12.326 H Nat-Adventure	28800
12.326 H Ovation	28800
12.326 H PGM 311	28800
12.326 H PGM 313	28800
12.326 H TCM	28800
12.326 H VH1	28800
12.326 H ANTI Pacific	28800

Freq Pol Channel Name Symbol rate
GHz

C-Band: INTELSAT 8
166.0° East

C-Band
29 35 41

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

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 109	28800
12.526 H PGM 114	28800
12.526 H HRTV	28800
12.526 H Sky Racing	28800
12.526 H H TV	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	28600
12.575 H ART MOVIES	28600
12.575 H ART TV	28600
12.575 H ABC AUSTRALIA	28600
12.575 H LBC	28600
12.575 H ABC AMERICA	28600
12.575 H ART GLOBAL	28600
12.575 H ART LATINO	28600
12.575 H Future News	28600
12.575 H ABC NEWS	28600
12.575 H Leonardo World	28600
12.575 H NBN	28600
12.575 H NTV	28600
12.575 H RAI TCS	28600
12.575 H RAI PAL Australia	28600
12.575 H RAI PAL South Amer	28600
12.575 H Orient Radio	28600
12.575 H Radio 2400	28600
12.575 H Radio AI Dtkir	28600
12.575 H Radio Music	28600
12.575 H Radio Voice of Chari	28600
12.575 H Rai Radio Australia	28600
12.575 H Rai Radio Service	28600
12.575 H Rai Ani 60	28600
12.575 H OCTV 4	28125
12.575 H CHINA	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	28125
12.575 H TVBS Asia	28125
12.575 H Xing He	28125
12.575 H H PLUS	28125
12.575 H BHT	28600
12.575 H BKT TV	28600
12.575 H BN TV	28600
12.575 H BTV	28600
12.575 H NHK	28600
12.575 H PINK EXTRA	28600
12.575 H PINK PLUS	28600
12.575 H BETHEL TV	28600
12.575 H ERIT TV	28600
12.575 H KTV	28600
12.575 H Medley Arabia	28600
12.575 H ORANGE TV	28600
12.575 H SVRIA TV	28600
12.575 H CR RADIO	28600
12.575 H ENRADIO 2	28600
12.575 H ENRADIO T	28600
12.575 H Main General Program	28600
12.575 H Voice of Youth	28600

Freq Pol Channel Name Symbol rate
GHz

INTELSAT 8 166.0° East

C-Band
29 35 41

<http://www.SatcoDX.com/1660>
Coverage Code: INT005CB

12.575 H KIN	13845
12.575 H KIN2	13845
12.575 H KIN3	13845
12.575 H KIN4	13845
12.575 H KIN5	13845
12.575 H KIN6	13845
12.575 H KIN7	13845
12.575 H KIN8	13845
12.575 H KIN9	13845
12.575 H KIN10	13845
12.575 H KIN11	13845
12.575 H KIN12	13845
12.575 H KIN13	13845
12.575 H KIN14	13845
12.575 H KIN15	13845
12.575 H KIN16	13845
12.575 H KIN17	13845
12.575 H KIN18	13845
12.575 H KIN19	13845
12.575 H KIN20	13845
12.575 H KIN21	13845
12.575 H KIN22	13845
12.575 H KIN23	13845
12.575 H KIN24	13845
12.575 H KIN25	13845
12.575 H KIN26	13845
12.575 H KIN27	13845
12.575 H KIN28	13845
12.575 H KIN29	13845
12.575 H KIN30	13845
12.575 H KIN31	13845
12.575 H KIN32	13845
12.575 H KIN33	13845
12.575 H KIN34	13845
12.575 H KIN35	13845
12.575 H KIN36	13845
12.575 H KIN37	13845
12.575 H KIN38	13845
12.575 H KIN39	13845
12.575 H KIN40	13845
12.575 H KIN41	13845
12.575 H KIN42	13845
12.575 H KIN43	13845
12.575 H KIN44	13845
12.575 H KIN45	13845
12.575 H KIN46	13845
12.575 H KIN47	13845
12.575 H KIN48	13845
12.575 H KIN49	13845
12.575 H KIN50	13845
12.575 H KIN51	13845
12.575 H KIN52	13845
12.575 H KIN53	13845
12.575 H KIN54	13845
12.575 H KIN55	13845
12.575 H KIN56	13845
12.575 H KIN57	13845
12.575 H KIN58	13845
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12.575 H KIN61	13845
12.575 H KIN62	13845
12.575 H KIN63	13845
12.575 H KIN64	13845
12.575 H KIN65	13845
12.575 H KIN66	13845
12.575 H KIN67	13845
12.575 H KIN68	13845
12.575 H KIN69	13845
12.575 H KIN70	13845
12.575 H KIN71	13845
12.575 H KIN72	13845
12.575 H KIN73	13845
12.575 H KIN74	13845
12.575 H KIN75	13845
12.575 H KIN76	13845
12.575 H KIN77	13845
12.575 H KIN78	13845
12.575 H KIN79	13845
12.575 H KIN80	13845
12.575 H KIN81	13845
12.575 H KIN82	13845
12.575 H KIN83	13845
12.575 H KIN84	13845
12.575 H KIN85	13845
12.575 H KIN86	13845
12.575 H KIN87	13845
12.575 H KIN88	13845
12.575 H KIN89	13845
12.575 H KIN90	13845
12.575 H KIN91	13845
12.575 H KIN92	13845
12.575 H KIN93	13845
12.575 H KIN94	13845
12.575 H KIN95	13845
12.575 H KIN96	13845
12.575 H KIN97	13845
12.575 H KIN98	13845
12.575 H KIN99	13845
12.575 H KIN100	13845

Freq Pol Channel Name Symbol rate
GHz

INTELSAT 8 166.0° East

C-Band
29 35 41

<http://www.SatcoDX.com/1660>
Coverage Code: INT005CB

12.575 H KIN101	13845
12.575 H KIN102	13845
12.575 H KIN103	13845
12.575 H KIN104	13845
12.575 H KIN105	13845
12.575 H KIN106	13845
12.575 H KIN107	13845
12.575 H KIN108	13845
12.575 H KIN109	13845
12.575 H KIN110	13845
12.575 H KIN111	13845
12.575 H KIN112	13845
12.575 H KIN113	13845
12.575 H KIN114	13845
12.575 H KIN115	13845
12.575 H KIN116	13845
12.575 H KIN117	13845
12.575 H KIN118	13845
12.575 H KIN119	13845
12.575 H KIN120	13845
12.575 H KIN121	13845
12.575 H KIN122	13845
12.575 H KIN123	13845
12.575 H KIN124	13845
12.575 H KIN125	13845
12.575 H KIN126	13845
12.575 H KIN127	13845
12.575 H KIN128	13845
12.575 H KIN129	13845
12.575 H KIN130	13845
12.575 H KIN131	13845
12.575 H KIN132	13845
12.575 H KIN133	13845
12.575 H KIN134	13845
12.575 H KIN135	13845
12.575 H KIN136	13845
12.575 H KIN137	13845
12.575 H KIN138	13845
12.575 H KIN139	13845
12.575 H KIN140	13845
12.575 H KIN141	13845
12.575 H KIN142	13845
12.575 H KIN143	13845
12.575 H KIN144	13845
12.575 H KIN145	13845
12.575 H KIN146	13845
12.575 H KIN147	13845
12.575 H KIN148	13845
12.575 H KIN149	13845
12.575 H KIN150	13845
12.575 H KIN151	13845
12.575 H KIN152	13845
12.575 H KIN153	13845
12.575 H KIN154	13845
12.575 H KIN155	13845
12.575 H KIN156	13845
12.575 H KIN157	13845
12.575 H KIN158	13845
12.575 H KIN159	13845
12.575 H KIN160	13845
12.575 H KIN161	13845
12.575 H KIN162	13845
12.575 H KIN163	13845
12.575 H KIN164	13845
12.575 H KIN165	13845
12.575 H KIN166	13845
12.575 H KIN167	13845
12.575 H KIN168	13845
12.575 H KIN169	13845
12.575 H KIN170	13845
12.575 H KIN171	13845
12.575 H KIN172	13845
12.575 H KIN173	13845

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
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 Sunshin Network	20000	12384 L UVE3	9666	12384 L UVE4	9666	12384 L BAUM	20000	12384 L WEXX	20000	12384 L WKBX	20000
12384 L The Weather Channel	20000	12384 L UVE5	9666	12384 L UVE6	9666	12384 L CACTV	20000	12384 L WLED	20000	12384 L WMLD	20000
12384 L Destinations Audio	20000	12384 L UVE7	9666	12384 L UVE8	9666	12384 L CDTV	20000	12384 L WWSR	20000	12384 L WWSW	20000
12384 L Latino Pop	20000	12384 L UVE9	9666	12384 L UVE10	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Muzak	20000	12384 L UVE11	9666	12384 L UVE12	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Muzak 2	20000	12384 L UVE13	9666	12384 L UVE14	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Viva Marachi	20000	12384 L UVE15	9666	12384 L UVE16	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Animal Planet	20000	12384 L UVE17	9666	12384 L UVE18	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L CNBC US	20000	12384 L UVE19	9666	12384 L UVE20	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Comedy Central	20000	12384 L UVE21	9666	12384 L UVE22	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Fox Sports Northwest	20000	12384 L UVE23	9666	12384 L UVE24	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L HBO West	20000	12384 L UVE25	9666	12384 L UVE26	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Lifetime	20000	12384 L UVE27	9666	12384 L UVE28	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L MSNBC	20000	12384 L UVE29	9666	12384 L UVE30	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L TBS Superstation (20000	12384 L UVE31	9666	12384 L UVE32	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L TV Land	20000	12384 L UVE33	9666	12384 L UVE34	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L VH1 US	20000	12384 L UVE35	9666	12384 L UVE36	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L WGN Superstation	20000	12384 L UVE37	9666	12384 L UVE38	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Contemporary Christi	20000	12384 L UVE39	9666	12384 L UVE40	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Contemporary Instrum	20000	12384 L UVE41	9666	12384 L UVE42	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Contemporary Jazz Ft	20000	12384 L UVE43	9666	12384 L UVE44	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Easy Instrumentals	20000	12384 L UVE45	9666	12384 L UVE46	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12384 L Jazz Traditions	20000	12384 L UVE47	9666	12384 L UVE48	9666	12384 L CDTV	20000	12384 L WWSW	20000	12384 L WWSW	20000
12414 L Black Starz East	20000	12414 L UVE49	9666	12414 L UVE50	9666	12414 L CDTV	20000	12414 L WWSW	20000	12414 L WWSW	20000
12414 L Encore East	20000	12414 L UVE51	9666	12414 L UVE52	9666	12414 L CDTV	20000	12414 L WWSW	20000	12414 L WWSW	20000
12414 L Exstasy	20000	12414 L UVE53	9666	12414 L UVE54	9666	12414 L CDTV	20000	12414 L WWSW	20000	12414 L WWSW	20000
12414 L Lifetime Movie Netwo	20000	12414 L UVE55	9666	12414 L UVE56	9666	12414 L CDTV	20000	12414 L WWSW	20000	12414 L WWSW	20000
12414 L Pas TV	20000	12414 L UVE57	9666	12414 L UVE58	9666	12414 L CDTV	20000	12414 L WWSW	20000	12414 L WWSW	20000
12414 L Starz Cinema East	20000	12414 L UVE59	9666	12414 L UVE60	9666	12414 L CDTV	20000	12414 L WWSW	20000	12414 L WWSW	20000
12414 L Starz East	20000	12414 L UVE61	9666	12414 L UVE62	9666	12414 L CDTV	20000	12414 L WWSW	20000	12414 L WWSW	20000
12414 L Starz Family East	20000	12414 L UVE63	9666	12414 L UVE64	9666	12414 L CDTV	20000	12414 L WWSW	20000	12414 L WWSW	20000
12414 L Starz Theater East	20000	12414 L UVE65	9666	12414 L UVE66	9666	12414 L CDTV	20000	12414 L WWSW	20000	12414 L WWSW	20000
12428 L Westerns East	20000	12428 L UVE67	9666	12428 L UVE68	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L KABC-TV	20000	12428 L UVE69	9666	12428 L UVE70	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L KCBS-TV	20000	12428 L UVE71	9666	12428 L UVE72	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L KNBC-TV	20000	12428 L UVE73	9666	12428 L UVE74	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L KSLA-TV	20000	12428 L UVE75	9666	12428 L UVE76	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L KTTV-TV	20000	12428 L UVE77	9666	12428 L UVE78	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L KWGN-TV	20000	12428 L UVE79	9666	12428 L UVE80	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L WPXI-TV	20000	12428 L UVE81	9666	12428 L UVE82	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L WWSB-TV	20000	12428 L UVE83	9666	12428 L UVE84	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L WWOR-TV	20000	12428 L UVE85	9666	12428 L UVE86	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L WXTV-TV	20000	12428 L UVE87	9666	12428 L UVE88	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L 70's Songbook	20000	12428 L UVE89	9666	12428 L UVE90	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L Big Band Era	20000	12428 L UVE91	9666	12428 L UVE92	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L Classic Rock Alternat	20000	12428 L UVE93	9666	12428 L UVE94	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L Eurostyle	20000	12428 L UVE95	9666	12428 L UVE96	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L JukeBox Gold	20000	12428 L UVE97	9666	12428 L UVE98	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12428 L Nonstop Hip Hop	20000	12428 L UVE99	9666	12428 L UVE100	9666	12428 L CDTV	20000	12428 L WWSW	20000	12428 L WWSW	20000
12443 L ABC Family	20000	12443 L UVE101	9666	12443 L UVE102	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L Cartoon Network	20000	12443 L UVE103	9666	12443 L UVE104	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L CNH Headline News	20000	12443 L UVE105	9666	12443 L UVE106	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L E! Entertainment TV	20000	12443 L UVE107	9666	12443 L UVE108	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L HGTV US	20000	12443 L UVE109	9666	12443 L UVE110	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L MTV East	20000	12443 L UVE111	9666	12443 L UVE112	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L Nickelodeon West	20000	12443 L UVE113	9666	12443 L UVE114	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L TCM - Turner Classi	20000	12443 L UVE115	9666	12443 L UVE116	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L The New TNN	20000	12443 L UVE117	9666	12443 L UVE118	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L Travel Channel	20000	12443 L UVE119	9666	12443 L UVE120	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L USA Network East	20000	12443 L UVE121	9666	12443 L UVE122	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L Adult Alternative	20000	12443 L UVE123	9666	12443 L UVE124	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L Hawaiian Music	20000	12443 L UVE125	9666	12443 L UVE126	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L Hot Hits	20000	12443 L UVE127	9666	12443 L UVE128	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L Kids tunes	20000	12443 L UVE129	9666	12443 L UVE130	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L LDS Radio Network	20000	12443 L UVE131	9666	12443 L UVE132	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L Modern Rock Alternat	20000	12443 L UVE133	9666	12443 L UVE134	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L Power Rock	20000	12443 L UVE135	9666	12443 L UVE136	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L Rockin' Radio	20000	12443 L UVE137	9666	12443 L UVE138	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12443 L USA Network West	20000	12443 L UVE139	9666	12443 L UVE140	9666	12443 L CDTV	20000	12443 L WWSW	20000	12443 L WWSW	20000
12457 L Adult Alternative	20000	12457 L UVE141	9666	12457 L UVE142	9666	12457 L CDTV	20000	12457 L WWSW	20000	12457 L WWSW	20000
12457 L Hawaiian Music	20000	12457 L UVE143	9666	12457 L UVE144	9666	12457 L CDTV	20000	12457 L WWSW	20000	12457 L WWSW	20000
12457 L Hot Hits	20000	12457 L UVE145	9666	12457 L UVE146	9666	12457 L CDTV	20000	12457 L WWSW	20000	12457 L WWSW	20000
12457 L Kids tunes	20000	12457 L UVE147	9666	12457 L UVE148	9666	12457 L CDTV	20000	12457 L WWSW	20000	12457 L WWSW	20000
12457 L LDS Radio Network	20000	12457 L UVE149	9666	12457 L UVE150	9666	12457 L CDTV	20000	12457 L WWSW	20000	12457 L W	

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Freq	Pol	Channel Name	Symbol rate	Freq	Pol	Channel Name	Symbol rate	Freq	Pol	Channel Name	Symbol rate	Freq	Pol	Channel Name	Symbol rate	Freq	Pol	Channel Name	Symbol rate	Freq	Pol	Channel Name	Symbol rate
12.224	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	NELI2	20000	11.960	H	33 - Discovery Scien	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	MTV	20000	12.370	R	NHL-E	20000	12.516	R	Vu8	20000	12.661	R	NHL-N	20000	11.960	H	34 - Disc. Civilization	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	NCA2	20000	12.370	R	PBS-E	20000	12.516	R	Vu8	20000	12.661	R	NHL-S	20000	11.960	H	35 - NatGeo	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	RCV04	20000	12.370	R	PBS-V	20000	12.516	R	Vu8	20000	12.661	R	OTDtv	20000	11.960	H	36 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	RCV05	20000	12.370	R	RFN	20000	12.516	R	Vu8	20000	12.661	R	RCV18	20000	11.960	H	37 - CNN Espanol	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	TSC	20000	12.370	R	WEA	20000	12.516	R	Vu8	20000	12.661	R	RCV18	20000	11.960	H	38 - CNN Espanol	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	TVLND	20000	12.370	R	WEA*	20000	12.516	R	Vu8	20000	12.661	R	RCV18	20000	11.960	H	39 - CNN Espanol	28800	11.845	H	Feed (Empty Name)	17800
12.224	R	Vu22	20000	12.370	R	WEA-I	20000	12.516	R	Vu8	20000	12.661	R	SUPRA	20000	11.960	H	40 - RT - Noticias	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	RF1	20000	12.370	R	WGN	20000	12.516	R	Vu8	20000	12.661	R	TVU	20000	11.960	H	41 - Bloomberg	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	A-VIC	20000	12.370	R	WGN*	20000	12.516	R	Vu8	20000	12.661	R	Vu17	20000	11.960	H	42 - Discovery	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	CW11	20000	12.370	R	NPR*	20000	12.516	R	Vu8	20000	12.661	R	METRO	20000	11.960	H	43 - Discovery Scien	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	GAME	20000	12.370	R	CAN-D	20000	12.516	R	Vu8	20000	12.661	R	VuF2	20000	11.960	H	44 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	HLTH	20000	12.370	R	CAN-H	20000	12.516	R	Vu8	20000	12.661	R	HDPRE	20000	11.960	H	45 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	NCA4	20000	12.370	R	CAN-Z	20000	12.516	R	Vu8	20000	12.661	R	ALERT	20000	11.960	H	46 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	NHL8	20000	12.370	R	DRM	20000	12.516	R	Vu8	20000	12.661	R	ALRT	20000	11.960	H	47 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	OLN	20000	12.370	R	SE	20000	12.516	R	Vu8	20000	12.661	R	BFVSC	20000	11.960	H	48 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	QUITV	20000	12.370	R	SE3	20000	12.516	R	Vu8	20000	12.661	R	LCN	20000	11.960	H	49 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	RAI	20000	12.370	R	SE3	20000	12.516	R	Vu8	20000	12.661	R	LOCK	20000	11.960	H	50 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	Vicdv	20000	12.370	R	SE4	20000	12.516	R	Vu8	20000	12.661	R	MOVHD	20000	11.960	H	51 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	Vu15	20000	12.370	R	SERIE	20000	12.516	R	Vu8	20000	12.661	R	NETHD	20000	11.960	H	52 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	Vu24	20000	12.370	R	SRC-V	20000	12.516	R	Vu8	20000	12.661	R	SPLTY	20000	11.960	H	53 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	Vu29	20000	12.370	R	SRK	20000	12.516	R	Vu8	20000	12.661	R	SRTH	20000	11.960	H	54 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.231	R	CBCT1	20000	12.370	R	WAHSA	20000	12.516	R	Vu8	20000	12.661	R	SRTH	20000	11.960	H	55 - TVE	28800	11.845	H	Feed (Empty Name)	17800
12.253	R	VNU50	20000	12.399	R	CBC-A	20000	12.530	R	CJAD	20000	12.561	R	Home & Health	28800	12.000	H	20 - IGD	28800	12.000	H	21 - CJC	28800
12.253	R	VNU51	20000	12.399	R	CBC-a	20000	12.530	R	CJAD	20000	12.561	R	Q10*	20000	12.000	H	22 - ESPN Internatio	28800	12.000	H	23 - Discovery Chann	28800
12.253	R	VNU52	20000	12.399	R	CBC-b	20000	12.530	R	CJAD	20000	12.561	R	Q10*	20000	12.000	H	24 - ESPN Internatio	28800	12.000	H	25 - Discovery Chann	28800
12.253	R	VNU53	20000	12.399	R	CBC-b	20000	12.530	R	CJAD	20000	12.561	R	Q10*	20000	12.000	H	26 - ESPN Internatio	28800	12.000	H	27 - Discovery Chann	28800
12.253	R	VNU54	20000	12.399	R	CBC-b	20000	12.530	R	CJAD	20000	12.561	R	Q10*	20000	12.000	H	28 - ESPN Internatio	28800	12.000	H	29 - Discovery Chann	28800
12.253	R	VNU55	20000	12.399	R	CBC-b	20000	12.530	R	CJAD	20000	12.561	R	Q10*	20000	12.000	H	30 - ESPN Internatio	28800	12.000	H	31 - Discovery Chann	28800
12.253	R	VNU56	20000	12.399	R	CBC-b	20000	12.530	R	CJAD	20000	12.561	R	Q10*	20000	12.000	H	32 - ESPN Internatio	28800	12.000	H	33 - Discovery Chann	28800
12.253	R	VNU57	20000	12.399	R	CBC-b	20000	12.530	R	CJAD	20000	12.561	R	Q10*	20000	12.000	H	34 - ESPN Internatio	28800	12.000	H	35 - Discovery Chann	28800
12.253	R	VNU58	20000	12.399	R	CBC-b	20000	12.530	R	CJAD	20000	12.561	R	Q10*	20000	12.000	H	36 - ESPN Internatio	28800	12.000	H	37 - Discovery Chann	28800
12.253	R	VNU59	20000	12.399	R	CBC-b	20000	12.530	R	CJAD	20000	12.561	R	Q10*	20000	12.000	H	38 - ESPN Internatio	28800	12.000	H	39 - Discovery Chann	28800
12.268	R	AAE	20000	12.399	R	TRPDv	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	33 - Discovery Scien	28800	12.000	H	34 - Discovery Scien	28800
12.268	R	CTV1	20000	12.399	R	Vision	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	35 - Discovery Scien	28800	12.000	H	36 - Discovery Scien	28800
12.268	R	CTV2	20000	12.399	R	Vision	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	37 - Discovery Scien	28800	12.000	H	38 - Discovery Scien	28800
12.268	R	FOXNC	20000	12.399	R	Vu10	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	39 - Discovery Scien	28800	12.000	H	40 - Discovery Scien	28800
12.268	R	GLB-T	20000	12.399	R	Vu27	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	41 - Discovery Scien	28800	12.000	H	42 - Discovery Scien	28800
12.268	R	GLBdv	20000	12.399	R	XPRS	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	43 - Discovery Scien	28800	12.000	H	44 - Discovery Scien	28800
12.268	R	INTV1	20000	12.414	R	CBC-T	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	45 - Discovery Scien	28800	12.000	H	46 - Discovery Scien	28800
12.268	R	SETNA	20000	12.414	R	CIVIL	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	47 - Discovery Scien	28800	12.000	H	48 - Discovery Scien	28800
12.268	R	SPACE	20000	12.414	R	CPNc	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	49 - Discovery Scien	28800	12.000	H	50 - Discovery Scien	28800
12.268	R	SPLCv	20000	12.414	R	MUSIX	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	51 - Discovery Scien	28800	12.000	H	52 - Discovery Scien	28800
12.268	R	STAR	20000	12.414	R	CBC-T	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	53 - Discovery Scien	28800	12.000	H	54 - Discovery Scien	28800
12.268	R	TVK	20000	12.414	R	ONE	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	55 - Discovery Scien	28800	12.000	H	56 - Discovery Scien	28800
12.268	R	VuF9	20000	12.414	R	ONEDv	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	57 - Discovery Scien	28800	12.000	H	58 - Discovery Scien	28800
12.268	R	VuP32	20000	12.414	R	Prise	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	59 - Discovery Scien	28800	12.000	H	60 - Discovery Scien	28800
12.268	R	XY18	20000	12.414	R	RCV13	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	61 - Discovery Scien	28800	12.000	H	62 - Discovery Scien	28800
12.268	R	XY19	20000	12.414	R	RCV13	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	63 - Discovery Scien	28800	12.000	H	64 - Discovery Scien	28800
12.268	R	XY2	20000	12.414	R	RCV13	20000	12.545	R	RJ	20000	12.589	R	TVAR	20000	12.000	H	65 - Discovery Scien	28800	12.000	H	66 - Discovery Scien	28800
12.268	R	XY3	20000	12																			

Main table listing satellite channels with columns for Freq Pol Channel Name, Symbol rate, and GHz. Includes multiple maps of the Americas and Europe showing satellite coverage areas.

Supplemental table listing satellite channels, including specific coverage codes and additional channel details.

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
1.0408 H COMSATION	14400	11.678 H NBA Path 2	28570	1.0408 H COMSATION	14400	1.0408 H COMSATION	14400	1.0408 H COMSATION	14400	1.0408 H COMSATION	14400	1.0408 H COMSATION	14400	1.0408 H COMSATION

Freq	Pol	Channel Name	Symbol rate
12.302 H	NEOSP		27500
12.302 H	Prime 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	Al Dayer		27500
12.302 H	ISHAT 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	SPIN JORDAN		27500
10.775 H	AL Dewitya		27500
10.775 H	Al Oqetha		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 SU	40000	
11.471 V	M6	29950	
11.471 V	Orange cine choc	29950	
11.471 V	Orange cine gants	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 GOLD	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 SU	40000	

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 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	Kay Geographic	27500	
10.925 H	Playboy	27500	
10.925 H	Sport Klub Ro	27500	
10.925 H	Sport Klub Tr	27500	
10.925 H	TVR Cultural	27500	
10.925 H	Viasat History	27500	
11.122 H	TV Amna RA	1852	
11.260 H	A 4 storyline	27500	
11.260 H	anime+ Hungary	27500	
11.260 H	anime+ Romania	27500	
11.260 H	Filmuzeev	27500	
11.260 H	HiTV	27500	
11.260 H	Minimax Huni+A	27500	
11.260 H	Minimax Rom+A	27500	
11.260 H	PaX	27500	
11.260 H	CH2	27500	
11.260 H	HiTV Hungary	27500	
11.260 H	Minimax Romania	27500	
11.260 H	Minimax Serbia	27500	
11.260 H	Teledia 2	27500	
11.260 H	Teledia 3	27500	
11.260 H	Teledia 6	27500	
11.260 H	Gong Radio	27500	
11.260 H	Juventus Radio	27500	
11.260 H	Katolus Radio	27500	
11.303 H	ATV	19540	
11.303 H	Cosmay Central	19540	
11.303 H	SK PL	19540	
11.303 H	SK PL +	19540	
11.303 H	Sportklub	19540	
11.303 H	Vital TV	19540	
11.303 H	Radio1	19540	
11.303 H	Katolus Radio	19540	
11.324 H	NET TV	3350	
11.333 H	HTV-RT	3350	
11.347 H	TMT	2800	
11.351 H	GROATEL D5NG	3350	
11.359 H	NOVA TV	3350	
11.423 H	SKANALAS	2892	
11.427 H	NTV HAYAT BH	5926	
11.427 H	NTV HAYAT SA	5926	
11.435 H	TV Olesia	2089	
11.443 H	TRM	4165	
11.443 H	TRM	4165	
11.560 H	LBC World	13400	
11.560 H	CNN	13400	
11.560 H	Duna TV	13400	
11.560 H	Music Channel	13400	
11.560 H	MTV	13400	
11.560 H	ProTV Intl	13400	
11.560 H	Taral TV	13400	
11.575 H	FRENCH LOVER TV	8887	
11.575 H	CN Sibiria	8887	
11.575 H	ON TV	8887	
11.575 H	LIFE TV Estonia	8887	
11.575 H	TBN Russia	8887	
11.586 H	Carli TV	7958	
11.586 H	Golte	7958	
11.586 H	MTV Adria	7958	
11.591 V	ARTE	20000	
11.591 V	France 2	20000	
11.591 V	France 3	20000	
11.591 V	France 5	20000	
11.591 V	LCP	20000	

Freq	Pol	Channel Name	Symbol rate
11.412 H	HBO Poland	7926	
11.422 H	HBO Poland (AC3)	7926	
11.412 H	HBO Poland for STB	7926	
11.412 H	HBO Poland	7926	
11.412 H	HBO Poland for ST	7926	
11.412 H	HBO Poland Origin	7926	
11.412 H	Subtitling Test	7926	
11.412 H	OS Download 2	7926	
11.412 H	OS Download 2	7926	
11.650 H	Telesport	21350	
11.650 H	Radio Trinitas	21350	
11.650 H	Canal 1	21350	
11.650 H	Ginx TV	21350	
11.650 H	Good Life Channel	21350	
11.650 H	Trinitas TV	21350	
11.650 H	TV Neptun	21350	
11.650 H	Radio Logos	21350	
11.650 H	Radio Reintreiga	21350	
11.650 H	Radio Trinitas	21350	
11.690 H	Gumor TV	7200	
11.690 H	MUSIC BOX	7200	
11.690 H	REAL ESTABE TV	7200	
10.723 V	RTL Klub	30000	
10.723 V	TV2	30000	
10.759 V	Eurosport HD	30000	
10.759 V	HBO HD	30000	
10.759 V	History HD	30000	
10.759 V	Nat Geo HD	30000	
10.759 V	mr1-Kossuth	30000	
10.759 V	mr2-Petof	30000	
10.759 V	mr3-Barok	30000	
11.178 H	TVR	6666	
11.178 H	TVRM	6666	
11.178 H	TVRM Cultural	6666	
11.178 H	NATIONAL GEOGRAPH	2750	
11.338 H	Scamtona	2600	
11.557 H	BBC World	13400	
11.557 H	CNN	13400	
11.557 H	Duna TV	13400	
11.557 H	Music Channel	13400	
11.557 H	MTV Ro	13400	
11.557 H	Music Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11.557 H	Real Max Adult	13400	
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11.557 H	ProTV Intl	13400	
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11.557 H	Real Max Adult	13400	
11.557 H	MusicMax	13400	
11.557 H	RTM	13400	
11.557 H	TVR	13400	
11.557 H	ProTV Intl	13400	
11			

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	90	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	509	508	-5.58%
19510	446	456	456	2.24%
21096	410	410	410	0.00%
22500	71	379	396	457.75%
29270	276	286	286	3.62%
27800	267	289	277	3.75%
28500	215	276	276	28.37%
29950	193	238	238	23.32%
26000	127	212	201	58.27%
24500	130	210	196	50.77%
27684	175	175	175	0.00%
26480	76	113	141	85.53%
21300	106	106	106	Inf
30800	106	104	104	-1.89%
18000	7	7	100	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

20 Years Ago

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



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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	Polarisat.	Beam	Band	Video	Mod.	Scrambl.	Empfang	Leistung dBW	Zeiten	Bemerkungen	
INTELSAT VA-F11	27.5 W	MTV Europe	USA	Engl.	10.28	Horiz	West	PAL	Neg	ja	7.02 & 7.20 (WEGENER-System)	Pay-TV	46	24	Videotext Begleitton Stereo	
		Canal 10	Grönland	spanisch	10.58	Vertikal	Ost	PAL	Neg	ja	7.02 & 7.20 (WEGENER-System)	Pay-TV	46	24	Kinder- / Spielfilme Begleitton Stereo	
		Grönland	englisch	11.02	Horiz	West	PAL	Neg	ja	6.60	7.02 & 7.20 (WEGENER-System)	Pay-TV	46	24	Kinder- / Spielfilme Begleitton Stereo	
		Arts Channel / Litology / Showpart (Film Showings)	Grönland	englisch	11.59	Horiz	West	PAL	Neg	ja	6.60	7.02 & 7.20 (WEGENER-System)	Pay-TV	46	24	Kinder- / Spielfilme Begleitton Stereo
		CNN International	USA	Engl.	11.15	Vertikal	Ost	PAL	Neg	ja	7.02 & 7.20 (WEGENER-System)	Pay-TV	46	24	Nachrichten - Information Datenübertragung	
		BBC 1/2	Grönland	englisch	11.18	Horiz	West	SAT-TEL	ja	6.60	ja	Pay-TV	46	24	Videotext Datenübertragung	
		EBU-PVS	USA	Engl.	11.47	Vertikal	West	PAL	Neg	ja	6.60	ja	46	24	Videotext Datenübertragung	
		Anglovision	USA	Engl.	11.51	Vertikal	Ost	PAL	Neg	ja	6.60	ja	46	24	Nachrichten - in Vorbereitung	
		TV2 / Satellite Information Service (Time Sharing)	Schweden	englisch	11.59	Horiz	West	B-MAC	ja	ja	ja	46	24	Unterhaltung / Pflanzentum		
INTELSAT VA-F10	21.5 W	(keine kein TV-Programme)														
INTELSAT V-F6	24.5 W	Telespazio	Italien	Italien	10.98	Vertikal	West	PAL	Neg	ja	6.65	ja	46	24	nur Testsendungen	
		Telespazio	Italien	Italien	11.13	Vertikal	West	PAL	Neg	ja	6.65	ja	46	24	nur Testsendungen	
		Telespazio	Italien	Italien	11.17	Vertikal	West	PAL	Neg	ja	6.65	ja	46	24	nur Testsendungen	
GORZONT 12	14 West	TV Test	Schweden	russisch	11.51	Vertikal	Ost	SECAM	N	ja	6.60	ja	46	24	nur Testsendungen	
INTELSAT V-F2	1 West	Norwegian Kanal 1	Norwegen	norwegisch	11.01	Horiz	West	PAL	Neg	ja	6.60	ja	46	24	Unterhaltung - Kultur	
		STV2	Schweden	schwedisch	11.13	Horiz	West	C-MAC	ja	ja	ja	46	24	Unterhaltung - Kultur		
		TV1	Israel	hebräisch	11.19	Vertikal	Ost	PAL	Neg	ja	6.60	ja	46	24	nur Testsendungen - DX	
		TV2	Israel	hebräisch	11.56	Vertikal	Ost	PAL	Neg	ja	6.60	ja	46	24	nur Testsendungen - DX	
		TV Test	Norwegen	engl./norwegisch	11.47	Horiz	West	PAL	Neg	ja	6.60	ja	46	24	nur Testsendungen	
EUTELSAT I-F2	7 Ost	Worldnet	USA	englisch	11.59	Horiz	Ost	SECAM	N	ja	6.60	ja	46	24	Radiogloss Progr. Information	
EUTELSAT I-F4	10 Ost	NRK	Norwegen	norwegisch	11.20	Vertikal	West	C-MAC	ja	ja	ja	46	24	Unterhaltung - Kultur		
EUTELSAT I-F1	13 Ost	Teleklub	Schweiz	deutsch	10.98	Vertikal	West	PAL	Neg	ja	6.50	ja	46	24	Spielfilme (Schaltplan Kabelschleifer)	
		RAL UNO	Italien	Italien	11.00	Horiz	West	PAL	Neg	ja	6.65	ja	46	24	Unterhaltung - Kultur	
		RTL plus	Luxemburg	deutsch	11.08	Vertikal	Ost	PAL	Neg	ja	6.65	ja	46	24	Unterhaltung	
		Filmnet	Belgien	engl./holl.	11.14	Vertikal	West	PAL	Neg	ja	6.55	ja	46	24	Spielfilme Begleitton schwedisch (Schaltplan Kabelschleifer)	
		SSAT	BRD	deutsch	11.17	Horiz	West	PAL	Neg	ja	7.15 & 7.61	ja	46	24	Unterhaltung	
		TMS	Frankreich	französisch	11.47	Horiz	West	PAL	Neg	ja	6.65	ja	46	24	Unterhaltung - Kultur	
		Worldnet	USA	englisch	11.48	Horiz	West	PAL	Neg	ja	6.65	ja	46	24	Information	
		SAT 1	BRD	deutsch	11.50	Vertikal	West	PAL	Neg	ja	6.65	ja	46	24	Unterhaltung	
		Sky Channel	Grönland	englisch	11.65	Horiz	West	PAL	Neg	ja	6.65	ja	46	24	Unterhaltung	
		Suoz Channel	Grönland	englisch	11.67	Vertikal	West	PAL	Neg	ja	7.02 & 7.20 (WEGENER-System)	ja	46	24	Begleitton Stereo	
INTELSAT VA-F12	60 Ost	SSAT	BRD	deutsch	10.97	Horiz	West	PAL	Neg	ja	6.65	ja	46	24	Unterhaltung	
		AFR-TV	USA/BRD	deutsch	10.99	Vertikal	Ost	B-MAC	ja	ja	ja	46	24	Unterhaltung		
		West 3	BRD	deutsch	11.01	Horiz	West	PAL	Neg	ja	6.65	ja	46	24	Unterhaltung	
		Tele 5	BRD	deutsch	11.13	Horiz	West	SECAM	N	ja	6.65	ja	46	24	Unterhaltung	
		Bayerisches Fern	BRD	deutsch	11.17	Horiz	West	PAL	Neg	ja	6.65	ja	46	24	Unterhaltung	
		Emis Plus	BRD	deutsch	11.45	Vertikal	West	PAL	Neg	ja	6.65	ja	46	24	Unterhaltung	
		Europa IV	BRD	deutsch	11.00	Horiz	West	PAL	Neg	ja	6.65	ja	46	24	Information	
		IRB TV2	Iran	farsi	10.99	Vertikal	West	PAL	Neg	ja	6.80	ja	46	24	nur Testsendungen - DX	
		IRB TV1	Iran	farsi	11.15	Vertikal	West	PAL	Neg	ja	6.80	ja	46	24	Kultur - DX	
INTELSAT V-F5	63 Ost	AFRITS-E2	USA	englisch	11.47	Horiz	West	NTSC	Neg	ja	6.80	ja	46	24	Unterhaltung - DX	
INTELSAT V-F7	66 Ost	TRT 1	Türkei	türkisch	11.65	Horiz	West	PAL	Neg	ja	6.80	ja	46	24	Unterhaltung - DX	
		TRT 2	Türkei	türkisch	11.68	Horiz	West	PAL	Neg	ja	6.80	ja	46	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	Polarisat.	Beam	Band	Mod.	Scrambl.	Empfang	Leistung dBW	Zeiten	Bemerkungen
INTELSAT VA-F11	27.5 W	BBC Worldserv.	Grönland	englisch	11.18	Horiz	West	WEGENER	7.20	ja	Frei	46	24	Mono // Kurzweile
INTELSAT V-F2	1 West	BBC Worldserv.	Grönland	diverse	11.18	Horiz	West	WEGENER	7.20	ja	Frei	46	24	Mono - Auslandsprogramme
INTELSAT V-F4	10 Ost	NRK P1	Norwegen	norwegisch	11.20	Vertikal	West	Digital/MAC	ja	ja	Frei	46	24	Inlandsprogramm Stereo
EUTELSAT I-F1	13 Ost	Radio Luxemburg	Luxemburg	deutsch	11.08	Vertikal	Ost	WEGENER	7.02 & 7.20	ja	Frei	46	24	Stereo
		Radio Luxemburg	Luxemburg	deutsch	11.14	Vertikal	Ost	WEGENER	7.02 & 7.20	ja	Frei	46	24	Stereo
		Cable One	Niederl.	englisch	11.17	Horizontal	West	WEGENER	7.02 & 8.10	ja	Frei	46	24	Testsendungen
		Voice of America	USA	englisch	11.50	Vertikal	West	WEGENER	7.02 & 8.10	ja	Frei	46	24	Stereo
		BBC Worldserv.	Grönland	englisch	11.67	Vertikal	West	WEGENER	7.35	ja	Frei	46	24	Mono // Kurzweile
		BBC Worldserv.	Grönland	diverse	11.67	Vertikal	West	WEGENER	7.35	ja	Frei	46	24	Mono // Auslandsprogramme
INTELSAT VA-F12	60 Ost	Deutscherfunk	BRD	deutsch	11.87	Vertikal	West	WEGENER	7.56	ja	Frei	46	24	Stereo
		Radio Media	BRD	deutsch	11.17	Horizontal	West	WEGENER	7.02 & 7.20	ja	Frei	46	24	Stereo
		Digital Test	BRD	deutsch	11.45	Vertikal	Ost	Digital/MAC	ja	ja	Frei	46	24	Unterhaltung
INTELSAT V-F5	63 Ost	IRB Radio 2	Iran	farsi	10.99	Vertikal	West	Standard	6.18	ja	Frei	46	24	Testsendungen - DX
		IRB Radio 1	Iran	farsi	11.17	Vertikal	West	Standard	6.18	ja	Frei	46	24	Inlandsprogramm - DX



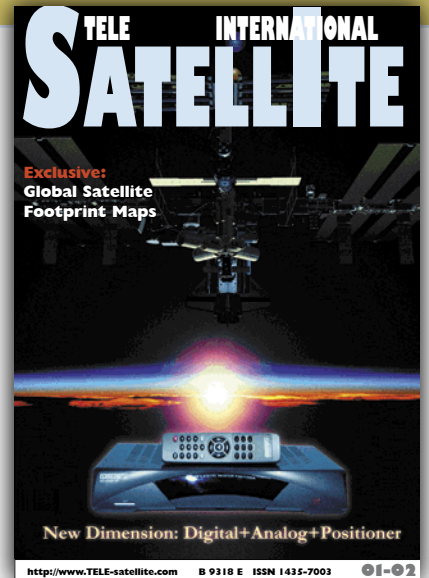
Edited by
Alexander Wiese

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**

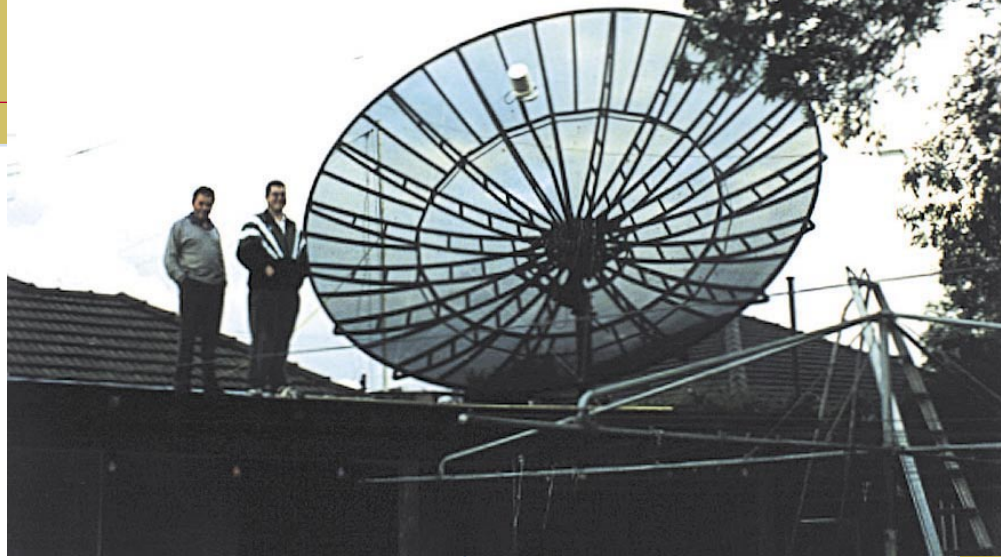
Good measuring equipment can always be recognised by its size and even more by its weight. You will see most professional engineers carrying around a heavy case. But out there, up on the roof, the heavier the tool to perfectly align the dish, the more dangerous it becomes for the one who is doing the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

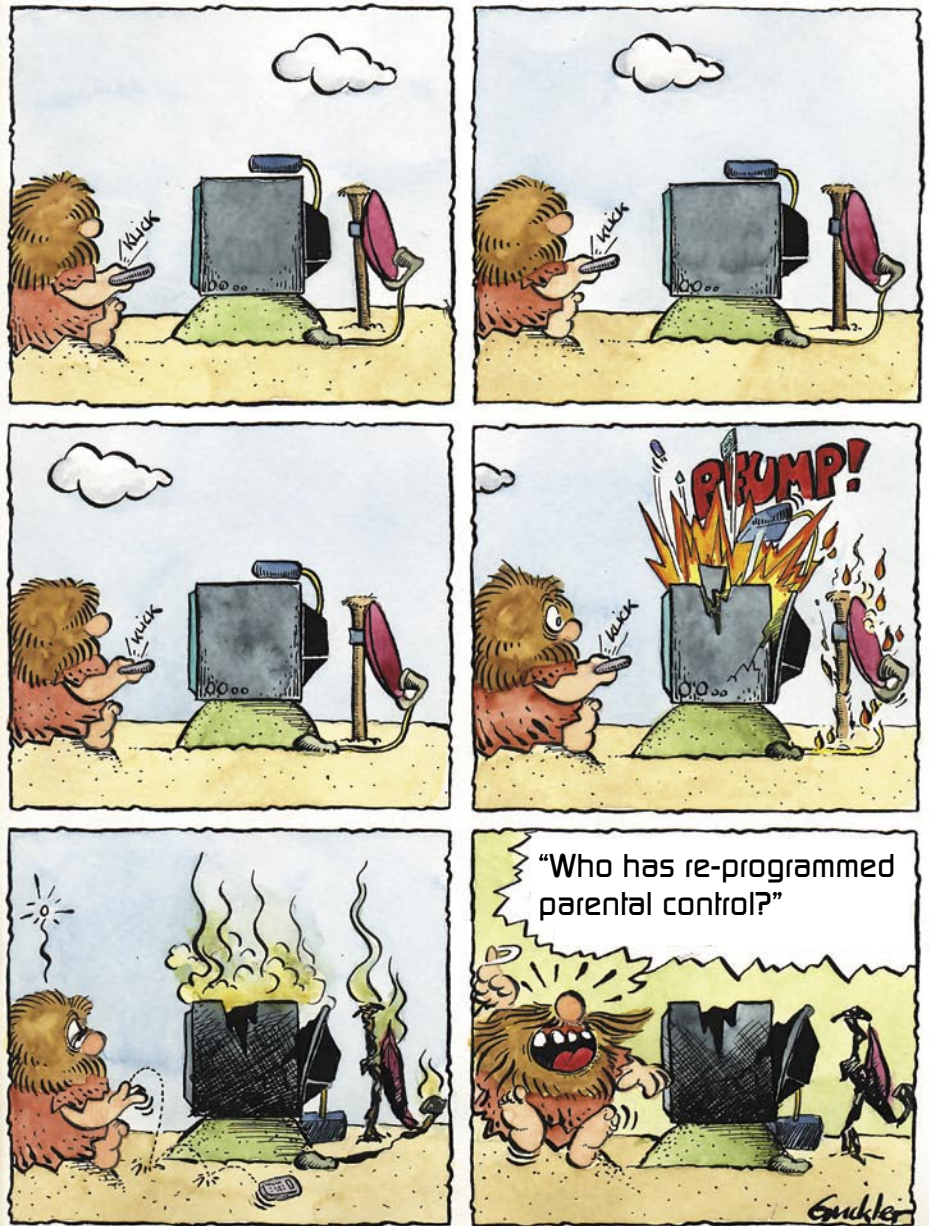
Australian Satellite DXer Bevin Boden

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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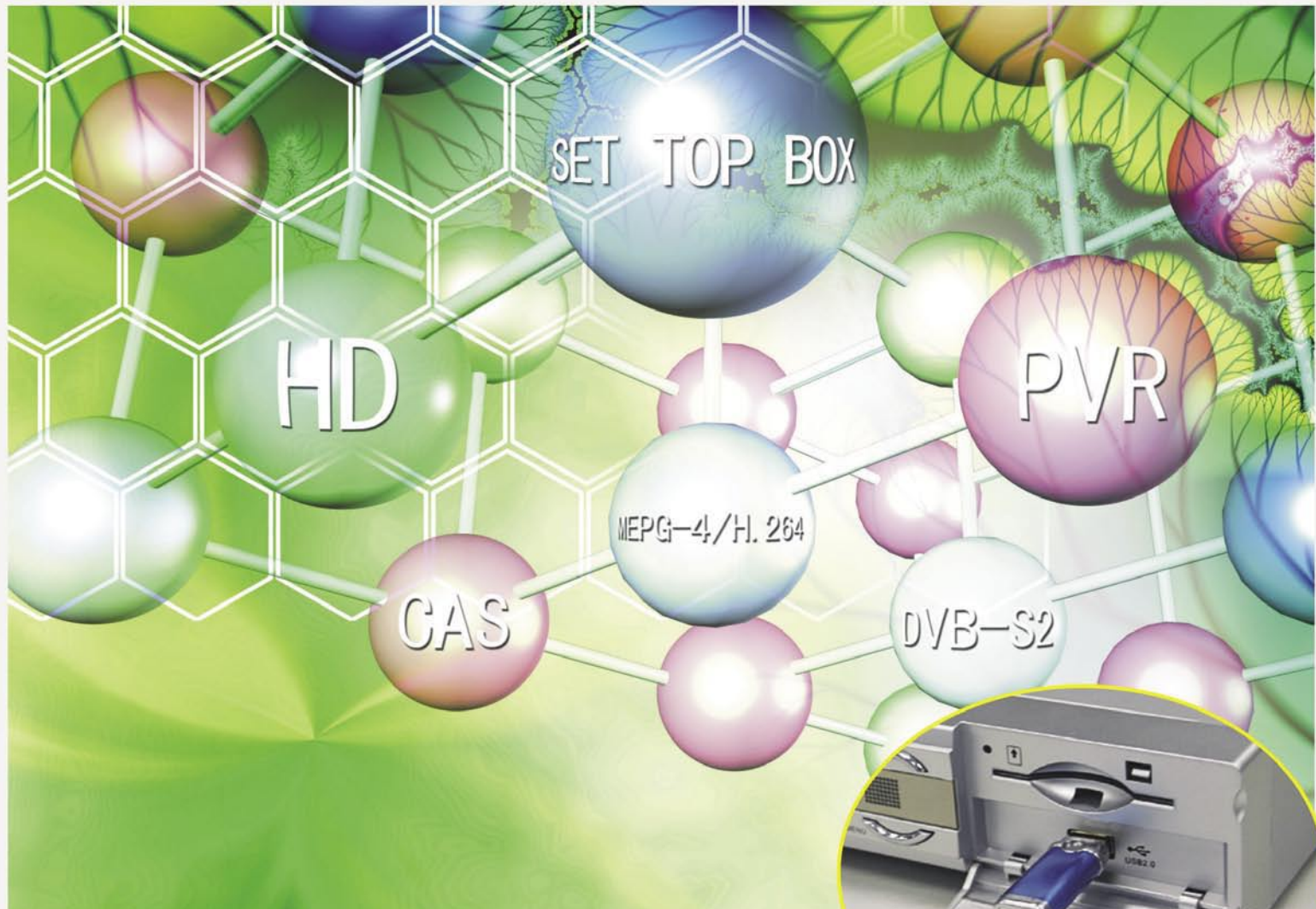


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