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专为  
《国际卫星电视》  
读者编制的  
**SatcoDX**  
“卫星世界”

的”卫星世界”软件包含全世界各个卫星转发器的技术数据



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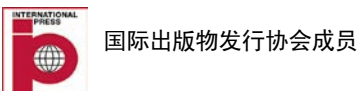
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SatcoDX 02/2009  
**卫星世界**

全球卫星节目信息数据库

Software V3.12 man sdx Creator

全球卫星图表  
每个卫星的每个频道

输出SatcoDX数据库  
为你的 SatcoDX兼容接收机  
载入程序

卫星向导: 用你的接收机在你的所在地能够接收到什么频道

天线指导: 你能接收到什么节目

节目寻找: 找到你所需要的节目

在线升级: 随时在线升级

接收机程序: 分类编组, 然后载入你的 SatcoDX兼容接收机

卫星场强图: 看看卫星波束覆盖哪里

输出并打印图表数据:  
保存你的个性化目录

© TELE-satellite - Minimum System Requirements: Pentium III  
- 128 MB RAM - 16 bit Colordepth - 800x600 Screen  
Compatible to Win 95, 98, ME, 2000, NT4, XP

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仅供单个私人使用  
ISSN 1861-5384  
SatcoDX.com



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全球所有卫星频道完整数据列表

自动显示所有可接收的卫星频道

Position Code and Satellite	Type	Ch	Freq	P	Channel Name	Coverage	123456789
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.760	V	Telufuturo (left audio)	PAN01RLW	1
3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	4	3.760	V	Radio Futuro (right audio)	PAN01RLW	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.764	V	Canal 5 El Lider	PAN01RLW	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.764	V	Telecadena 7 y 4	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.781	V	Telecentro	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.786	V	Feeds	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	5E	3.825	H	Deus e Amor	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	7E	3.869	H	Gamavison	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	7E	3.869	H	Radio Sonorama	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	9E	3.882	H	Feeds	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	18	4.040	V	CTC-Mundo	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	18	4.071	V	UCV TV	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	19	4.096	H	TNP - Television Nacional	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	19	4.096	H	Education A Distancia	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	19	4.096	H	Radio Nacional del Peru (r	MPG2	1
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4.106	V	WLII-TV	MPG2	1	

自动载入卫星频道数据到与SatcoDX兼容的接收机中

通过互联网连接主服务器及备份服务器进行频道数据库更新

以HTML格式打印包含卫星场强图的频道列表



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تقرير اختبار  
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Fabrica  
cessoires  
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**Rapport d'un radioamateur**  
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Αναφορά DXer Πειράματα Λήψης Εξερυνώντας την Ka Band στην Περιοχή Συχνοτήτων 20 GHz

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Test uređaja INFOSAT V055 Imagary Focus mala antena

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Teszt INFOSAT V055 Egy pehelysúlyú műhold anténa

Spaun minőségű tartozékok elosztója SPAUN

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Тестируем  
**SV-360 Elite PVR**  
Простой в использовании  
PVR приёмник

Тестируем INFOSAT  
**INFOSAT V055**  
Легковесная антенна д  
С-диапазона

Производителя аксессуаров  
высокого качества  
**SPAUN**

Отчёт о дальнем приёме  
**Reception Experiments**  
Экспериментальный приём в Ka  
- диапазоне, на частоте 20 ГГц

Тестируем  
**TOPFIELD**  
TF7700HSCI - Изящный HDTV PVR

SATELLITE AWARDS  
ID-17/EG08

Читайте журнал ТЕЛЕ-сателлит он-лайн:  
<http://magazine.tele-satellite.com/TELE-satellite-0811-rus.pdf>

SVE Världens största satellittidning # 207

**SATELLIT**  
& BREDBAND

11-12 2008

Testrapport  
**Sonicview SV-360 Elite PVR**  
Lättanvänd PVR-mottagare

Testrapport INFOSAT  
**INFOSAT V055**  
Primär antenn

Tillverkare av högkvalitativa  
tillbehör  
**SPAUN**

DX-rapport  
Mottagningsexperiment  
Utforska Ka-bandet  
i 20 GHz-området

Testrapport  
**TOPFIELD**  
TF7700HSCI - Elegant HDTV-PVR

SATELLITE AWARDS  
ID-17/EG08

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TUR Dünyanın En Büyük Uydu Donanımı Dergisi # 207

**SATELLITE**  
& GENİŞBANT

11-12 2008

Test  
**SV-360 Elite PVR**  
Kolay Kullanımlı PVR  
Uydu Alıcısı

Test INFOSAT  
**INFOSAT V055**  
Kuş Tüyu Kadar Hafif  
Antenna

Yüksek Kaliteli  
Akcesuar  
Üreticisi  
**SPAUN**

DXci Raporu  
Sinyal deneyimleri  
20 GHz Aralığında Ka Bantı  
Keşfetmek

Test  
**TOPFIELD**  
TF7700HSCI - Göz Alıcı HDTV PVR

SATELLITE AWARDS  
ID-17/EG08

Uluslararası TELE-satellite Dergisi'ni online okuyun:  
<http://magazine.tele-satellite.com/TELE-satellite-0811-tur.pdf>



# Technomate

The New!

## TM-5000 Super Series

with USB PVR for Recording



### Introducing the New TM-5000 USB Super Series...

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

### USB Features:

- ✓ Record/Playback Scrambled & Free-To-Air (FTA) Channels by USB 2.0
- ✓ 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

# FORTIS

What we make, It's standard!

## What we make, It's standard!

FORTIS  the new HD era.



► FORTIS will make its utmost efforts to bring easy-to-use and specialized products to the customers as a **Digital Creator** with our technological expertise.



Head office

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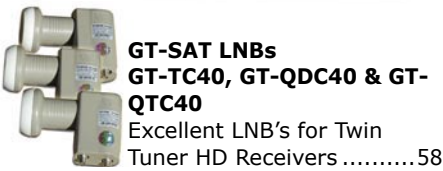
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# 亲爱的读者们



目前的全球金融危机将会波及到卫星工业吗? 看来有两种不同看法。有一些人甚至预料说会有增长,因为他们确信那些时间不确定的人们更有可能呆在家里,于是就会关注到底有多少、有哪类卫星电视节目可以看。如果你担心工作稳定、担心银行帐户里的资金,如果你对于花销很在意,那么就会更愿意呆在家里闲着,并欣赏喜爱的卫星电视节目。

但是事物总有其另一面。另一些人引证相同的理由但却得出相反的结论:如果你正在储蓄,那就不太可能花钱买个新的卫星接收机。对于后者,他们没有看到这一点:卫星电视实际上是接收电视的诸多方式中性性价比最高的,在卫星系统上的投入是物有所值的。

这些争论与能够接收到多少免费节目有关,大家都知道 FTA (免费电视)和付费电视毕竟还是有所不同。就我而言,总是质疑个人怎样才能付钱看电视,而现在的金融危机可能会使更多的人斟酌这个问题。付费电视节目供应商应该体察这种情况。

那么卫星产品的制造厂商应该如何应对呢? 如果银行对于授信给我们还犹犹豫

豫的话,那么制造厂商还要大量生产产品吗? 如果你看了《国际卫星电视》本期和前几期关于公司的报道,你就会知道现在制造厂商都在都由职业经理人在谨慎地经营着。财务制度健全的公司总是有很好的信用,因此金融危机还没有影响到这些公司。

形势究竟会怎样发展呢? 对于卫星业来说目前还没有问题。我们很高兴地看到新的一群免费卫星电视观众加入进来了:这就是来自纽约华尔街和伦敦金丝雀码头金融区的银行经理们。他们现在必须卖掉法拉利和第二辆保时捷,并取消付费电视服务,他们现在需要为其公寓客厅里的大平板电视配上一个牌子新的高清PVR卫星接收机。现在,这些从前的财务经理们肯定有充足的时间来看电视。

您的  
亚历山大 维思

附注: 本月我喜爱的广播电台是: 19.2° E 上 ASTRA 卫星的 NRJ(12.207V), 它在连续播放着法国流行歌曲。精心选择的歌曲在不断重播,现在就可以欣赏它。

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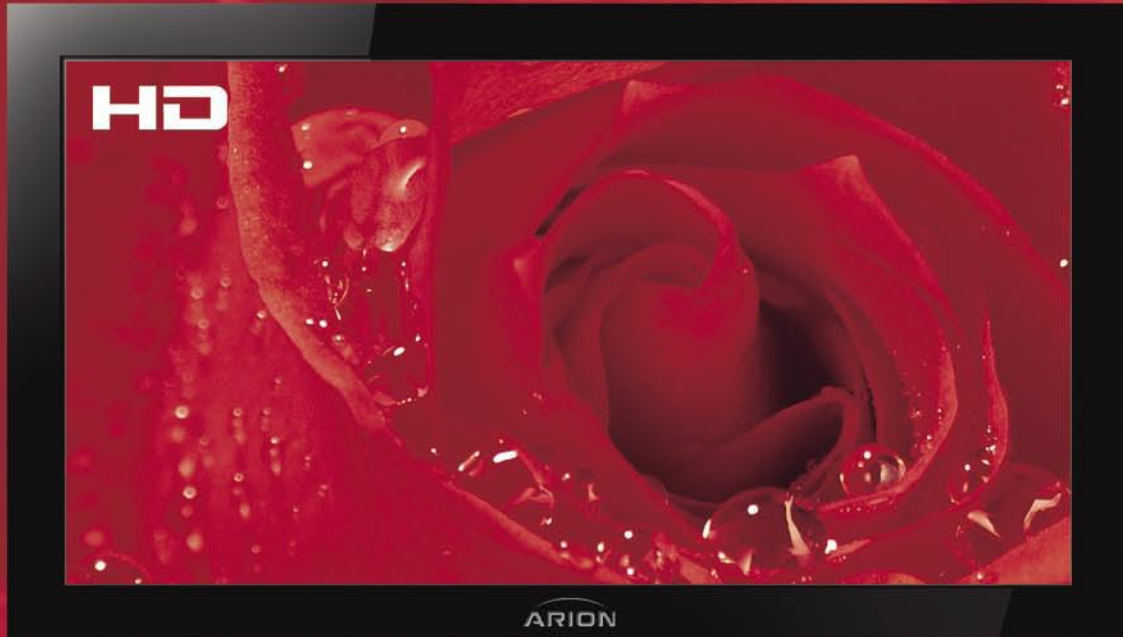
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# Who makes HD quality?



Pure & Vivid HD picture / Stylish wide body (430mm) with VFD front panel display / Supporting 2 CAMs of DVB Common Interface Standard / Various Video Display Format With PAL/NTSC/576p/720p/1080i 50Hz/60Hz Support / HDMI Digital Audio & Video Output / Easy and Fast Auto Programming, Intuitive User Interface / Supports RS-232C port for S/W upgrade

**ARION**  
TECHNOLOGY  
*Good Choice Better Life!*  
[www.arion.co.kr/global](http://www.arion.co.kr/global)

## High Definition Digital Satellite Receiver ARION AF-4000HDCI



ARION Technology Inc. Tel +82-31-361-3000 / Fax +82-31-361-3099 / e-mail [info@arion.co.kr](mailto:info@arion.co.kr)



## 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



Edited by  
**Branislav Pekic**

**EUROPE**

**EUROPE**

**EU CHANGES CABLE RULES**

The European Commission has decided that telecom operators must open their cable ducts to rivals, a move that should pave the way for a range of new services over the so-called Next Generation Access broadband. NGA fibre-optic networks are needed for high-definition content such as HDTV, online gaming and interactive applications. Management consulting firm McKinsey estimates the investment required to replace Europe's networks at US\$ 430 billion. The commission's plans still need to complete the EU's long decision-making and consultation process and will be formally adopted next year.

**ASTRA 1M TO BE LAUNCHED IN NOVEMBER**

The SES-owned telecommunications satellite Astra 1M is due to be launched from Baikonur at the beginning of November, by the Proton M carrier rocket and the Breeze M upper stage rocket. The satellite was built by EADS Astrium on the Eurostar E3000 platform and carries 36 transponders. The spacecraft will be operating in the geostationary orbit for 15 years, providing television and communications services, including HDTV, for users in Europe, Northern Africa and the Middle East.

**IPTV SUBSCRIPTIONS TRIPLE IN WESTERN EUROPE**

IPTV subscriptions in Western Europe are set to nearly triple over a three-year period, jumping from 5 million in 2007 to 14.7 million in 2010, according to research group Gartner. The figures show that subscriptions will hit 8 million this year, while revenue will jump from US\$ 1.4 billion in 2007 to US\$ 2.5 billion this year, US\$ 3.9 billion in 2009 and US\$ 5.6 billion in 2010. However, the year-to-year subscriber growth will slow, from 74.3% in 2007 to 28.6% in 2010.

**OVERON SELECTS TANDBERG FOR HDTV SOLUTION**

Tandberg Television is providing an MPEG-4 AVC high definition (HD) encoding system to Spanish-based broadcast solutions provider Overon for the delivery of National Geographic Channel HD to broadcasters and TV service providers across Europe. NGC HD's innovative factual programming will be distributed to broadcast head-ends across Europe via satellite using the Tandberg Television EN8090 encoder. This MPEG-4 AVC solution enables a substantial reduction in the bandwidth required for distributing HDTV services.

**TWO EUTELSAT SATELLITES IN ORBIT FROM NOVEMBER**

Arianespace and Eutelsat Communications have confirmed the upcoming launch of the Ariane 5 ECA will orbit Eutelsat's Hot Bird 9 and W2M satellites in the last week of November. The Hot Bird 9 satellite, equipped with 64 transponders, will join Eutelsat's 13 degrees East position to increase in-orbit sparing at the Group's premium video neighbourhood. Hot Bird 9 is identical to Hot Bird 8 which was launched to 13 degrees East in August 2006 and Hot Bird 10 which will be orbited by Arianespace at the beginning of 2009. W2M will be positioned at Eutelsat's 16 degrees East position and is equipped with 26 Ku-band transponders and up to 32 depending on

operational modes. It will replace W2 and provide additional capacity for further service expansion.

**AUSTRIA**

**ORF SELECTS NTT ELECTRONICS FOR HDTV EQUIPMENT**

NTT Electronics' AVC/H.264 HDTV/SDTV encoders/decoders HV9100 Series have been by the Austrian Broadcasting Corporation (ORF) for broadcasts of the EURO 2008, the UEFA European Football Championships, in high definition using encoding and decoding technology from NTT Electronics. The device used was the HV9100 Series AVC/H.264 HDTV/SDTV encoders/decoders. This allowed the ORF to offer real-time HD transmissions through the ATM network of Telecom Austria. The HV9100 Series was reportedly the world's first to offer AVC/H.264 High 4:2:2 Profile support.

**CZECH REPUBLIC**

**QUICKMEDIA TO LAUNCH HDTV ON IPTV**

IPTV service QuickMedia has added ten channels to its Plus 1 package, and has also revealed plans to launch a bouquet of high-definition channels. The ten new channels are Leo TV, Private Spice, Sport 5, Sky News, Nat Geo Wild, Arte, Extreme Sports Channel, Nostalgia, TA3 and the Fishing & Hunting Channel. A package of high-definition channels called "HD Plus" is also being prepared by local company HDD, which will be launched simultaneously with a new set-top box developed in cooperation with Czech firm Coprosys. The service currently uses Amino's Aminet 110 MPEG-2 set-top boxes, and is offered in partnership with local operators.

**SMART TO DELIVER IPTV IN BRNO**

Local operator Smart is planning to build a fibre to the home network in the city of Brno in order to deliver triple-play services of broadband, IPTV and VoIP in the city, with a planned footprint of 6,600 homes upon service launch in September next year. SMART expects to start construction of the network in January of next year, with around 1,600 flats expected to be connected in newly-built areas around Brno in the first quarter of this year, with a further 5,000 flats to be networked in the second quarter of 2009. The network will be based on Cisco's IP network architecture.

**DENMARK**

**TILGIN, NORDIJA PROVIDE HDTV FOR TRE-FOR**

Broadband solutions provider Tilgin and Nordija, an independent developer of middleware for IPTV environments, are providing a HD IPTV solution to Danish utility company Tre-For. Nordija has been contracted to provide IPTV middleware with additional adaptation to their requirements based on their choice of Tilgin's IP Set-top media centre. Tilgin will provide its HD IPTV set-top solution, including its IPTV server software for large-scale IP networks, named MBS. Tre-For Bredband has a current client base of approximately 140,000 residential homes with the option to supply multi-play services to another 260,000 residential homes.

**ESTONIA**

**AMINO SIGNS STB DEAL WITH ELION**

Amino has signed an agreement that will see its new H.264 HD based AmiNET530 PVR STB play a key role in the expansion of Estonia's IPTV market. Elion will begin introducing the PVR capabilities in November, with the HD service following later in the year. The number of Elion digital television users increased 16% on the first half of 2008, reaching 67,700 by the end of Q2 2008.

**FRANCE**

**ATEME H.264 VIDEO SERVES 1 MILLION HOMES WITH HD IPTV**

Ateme's H.264 encoding solutions are now serving over one million French homes in HD. Major French broadcasters including M6 and France2 Television have chosen to use Ateme's H.264 encoders to provide HD video over low bit rates in order to reach millions of IPTV customers. Using Ateme's bandwidth efficient H.264 solutions, ISPs are able to reach more customers over further distances with HD IPTV services.

**GERMANY**

**DEUTSCHE TELEKOM AND MOTOROLA COLLABORATE ON IPTV**

Motorola and Deutsche Telekom announced a collaboration to deliver IPTV in Germany and Deutsche Telekom will use Motorola's High Definition (HD)-ready IPTV set-tops for its "T-Home Entertain" services. Motorola will provide T-Home with its VIP1616E set-top -- known to T-Home customers as Media Receiver 300 Type A. With the device, subscribers to T-Home's Entertain service will be able to view premium sporting content in full HD. Moreover, T-Home viewers can use the device's electronic program guide to plan, record, and store what they want to watch.

**MEDIA BROADCAST AIRS FOOTBALL IN HD**

Alcatel-Lucent is providing a nationwide broadcast next-generation network (broadcast NGN) for Media Broadcast, Germany's leading service provider for the broadcasting and media industry. Once complete, HDTV signals will be transmitted live for the first time from venues of the 1st and 2nd Bundesliga, to broadcasting studios across the country. This allows Media Broadcast customers to deliver high-quality, uninterrupted transmissions of the games to the living rooms of millions of fans via DVB-H, DVB-T, DSL or cable. At the heart of the broadcast NGN is the Alcatel-Lucent 7750 Service Router, which manages voice, video and data signals.

**IRELAND**

**MAGNET TEAMS UP WITH INUK FOR IPTV SERVICE**

Magnet Networks has selected Inuk Networks' 'igloo' virtual set-top box to extend delivery of its IPTV service to subscribers' PCs and Macs. The PC service provides subscribers with a range of free TV channels, which will be expanded over the next few months to include pay channels and video on demand content. Inuk's igloo virtual set-top box is designed to emulate the operation and user interface of a standard STB on a Windows or Apple-based platform. Magnet Entertainment offers broadband at speeds of up to 50 Mbps, along with IPTV and telephone services, delivered over its ADSL2+ and Fibre to the Home network.

**ITALY**

**TELECOM ITALIA SECURES ALICE TV WITH NDS VIDEOGUARD**

NDS is supplying its VideoGuard conditional access and DRM solution for Telecom Italia's 'Alice TV' IPTV service. The operator is using Alcatel's Open Media Platform IPTV service delivery and management solution. Telecom Italia passed 180,000 IPTV subscribers at the end of the first half of this year, and is reportedly targeting 300,000 by the end of 2008.



**LITHUANIA**

**ALPHA LINKS WITH WIDEVINE FOR KAVA IPTV SERVICE**

Digital rights management company Widevine has been selected by IPTV operator Alpha komunikacijos to provide its Widevine Cypher for the secure delivery of premium broadcast and video-on-demand content for its Kava IPTV service. Alpha komunikacijos chose Widevine because of its established record of securing Hollywood and European content on STBs as well as PVRs, PCs and Macs. Kava offers a full range of TV, VOD and interactive services to their subscribers with plans to grow their service to more than 80,000 households in Lithuania.

**IBM AND WIDEVINE HELP SKYNET TO PROVIDE PREMIUM CONTENT**

IBM and Widevine Technologies are helping ISP Skynet (owned by the Penki Kontinentai group) to provide premium TV content to all 25,000 Skynet users in Lithuania. Skynet will launch a new service later this year, with basic and premium television channels to compete with mainstream cable, satellite and other IPTV providers in the region. Skynet will deliver pay-TV services to set top boxes at their 'PenkiTV' subscribers and are planning to expand service delivery to PCs in the very near future. IBM will manage design, delivery and maintenance for the digital video head end from Cisco and content protection from Widevine.

**PORTUGAL**

**SONAECOM AND ERICSSON TRIAL IPTV MIDDLEWARE**

Ericsson is providing Portuguese triple play operator Sonaecom to provide and integrate its open, standards-based, end-to-end IPTV solution, including Ericsson's new IMS-based IPTV (Internet Protocol Television) middleware that enables operators to deliver personalized and interactive TV experiences to its subscribers. The Ericsson IPTV ecosystem is based on open standards, designed to comply with the Open IPTV Forum specifications.

**PORTUGAL TELECOM WITH 200.000 IPTV SUBSCRIBERS**

Portugal Telecom has reached 200,000 subscribers for its Meo pay-TV service, delivered via IPTV and satellite, a target which was previously expected to be reached at the end of the year. Meo's 200,000 subscribers are estimated by the telco to represent 30% of its ADSL clients and 7% of its fixed-line clients.

**RUSSIA**

**COMSTAR EXPANDS IPTV WITH TANDBERG**

Comstar-Direct, Russia's leading provider of broadband Internet access services, is expanding its IPTV head-end with Tandberg Television to support MPEG-4 AVC encoding and transcoding. The addition of Tandberg's single module iPlex transcoding means the operator can ingest widely available MPEG-2 feeds and convert them to MPEG-4 AVC without the need to decode and re-encode. This one-step approach to transcoding is cost-effective, helps preserve picture quality and makes it considerably easier to re-synchronize video with subtitles.

**BCC SELECTS BITBAND IP VIDEO DELIVERY SOLUTION**

BitBand's Content Delivery Network has been chosen by Russian systems integrator BCC as an IP video delivery solution to be supplied to Russian operator UTK, the main fixed-line service provider in the Southern Federal District. BitBand's Maestro content distribution and management suite and Vision VOD & TVOD appliance servers were also selected for the deployment, based on UTK's requirements for scalability and growth scenarios. Once deployed the platform will support services including video on demand, network personal video recording, time-shift TV and programme restart.

**COMSTAR WITH 146.000 IPTV SUBSCRIBERS**

Comstar reached 146,000 Moscow-based subscribers for its double-play service of broadband and IPTV in the second quarter of this year, up 44% from the same period of 2007, while average revenue per user for the period reached US\$ 21.40. The operator also reported that its pay-TV subscriber base across all Russian regions it operates in rose by 32% between April and June this year to reach 142,000.

**RUSSIAN HDTV PLATFORM SELECTS EUROIRD 9 SATELLITE**

The new Russian HDTV platform, Platforma HD, has selected the Eurobird 9 satellite operated by Eutelsat to deliver new HD content across western parts of Russia to the Urals. Platforma HD has signed a contract with Eutelsat for a full transponder and this capacity is already broadcasting the new platform's initial offer of four HD channels (Eurosport HD, National Geographic HD, HD Life and Kinopokaz HD). Platforma HD has selected DRE

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encryption for the system, with two types of decoders available (Humax HDCI-2000 and General Satellite's HD-9000).

**SCANDINAVIA**

**TANDBERG MPEG-4 AVC COMPRESSION FOR TELENOR**

Tandberg's MPEG-4 AVC compression and IP multiplexing solutions has been selected by Telenor Satellite Broadcasting to provide IP video contribution and direct-to-consumer IPTV services in Scandinavia. Tandberg is providing encoding and multiplexing from six locations across northern Europe and Scandinavia, with all video distributed across an IP transport network for IPTV consumer services in Sweden, Norway and Denmark.

**TELIASONERA SELECTS MEDIAFLEX SMART WI-FI SYSTEM**

TeliaSonera has selected and is deploying Ruckus Wireless' MediaFlex Smart Wi-Fi systems to provide customers flicker-free wireless distribution of the popular IP-based digital TV service (IPTV), Telia Digital-TV, throughout their homes. Telia Digital-TV, which has some 300,000 customers, offers subscribers around 70 TV channels, 24-hour on-demand library of movies and network-based, time-shifted TV services.

**SERBIA**

**TELEKOM SRBIJA LAUNCHED IPTV IN OCTOBER**

Telekom Srbija launched an IPTV service on October 15. According to Vladimir Lucic, director of Telekom's mobile division, the service will be offered to the operator's ADSL customers free of

charge during a promotional period lasting until December 1, offering 80 domestic and foreign channels. This capacity is expected to be increased to carry around 200 TV channels in the future.

**SWITZERLAND**

**NETSTREAM SELECTS ENTONE SOLUTION FOR IPTV SERVICE**

Swiss Internet service provider Netstream has selected customer premises equipment from US firm Entone for its high-definition managed IPTV deployments with operators around Switzerland. Netstream provides managed services and systems integration to a number of telecoms operators, including a managed white-label IPTV service, and selected Entone's Hydra HD IPTV video gateway and Amulet HD IPTV set-top boxes. Hydra HD and Amulet HD also support a number of home networking technologies, including HomePlug, 802.11n and HomePNA 3.0, enabling the provision of new revenue-generating services such as whole-home DVR.

**TURKEY**

**TURKEY TO LAUNCH TWO NEW SATELLITES IN 6 YEARS**

Turkey plans to launch two new satellites, Turksat 4A and Turksat 5A, in the next six years, which is planned to cover north and central Africa. As a result, the coverage area of Turkish satellites will stretch out from eastern coast of the United States to China, and also from Arabian Peninsula to central Africa. Turksat plans to invite bids for Turksat 4A at the end of 2008 and launch the satellite in 2011. Turksat also projects to build one more satellite within six years with 100% national software. Turksat 5A would be built at

facilities of the Turkish Aerospace Industries in 2012 and was planned to be launched in 2014.

**UNITED KINGDOM**

**BRITISH TELECOM CRITICAL OVER KANGAROO IPTV**

British Telecom has become the latest party to warn that proposed BBC, ITV and Channel 4 on-demand joint venture Kangaroo raises serious competition concerns. The firm, behind the BT Vision IPTV service, has claimed that Kangaroo would "very likely" reduce competition in the UK VoD space – something that would be particularly harmful to its own interests. BT Vision launched at the end of 2006 and now has over 280,000 subscribers but hopes to reach two to three million within the next three to five years. BT now fears, however, that this target could be dented by the arrival of Kangaroo in the marketplace, especially given the UK-centric nature of the programming the proposed service will make available.

**SETANTA OFFERS IPTV SERVICE TO UNIVERSITY STUDENTS**

Sports broadcaster Setanta has signed a deal with IPTV service provider Inuk to broadcast its service to students at more than 40 universities in the UK. The Inuk service allows students to watch more than 50 TV channels on their PCs through the UK university data network, Janet, which connects all UK universities. For a £9.99 monthly subscription, students will be offered a Freewire Extra package, adding subscription channels such as Setanta Sports, as well as channels from other broadcasters including MTV and FX. More than 40,000 people are now receiving digital television through Inuk's Freewire TV IPTV service.

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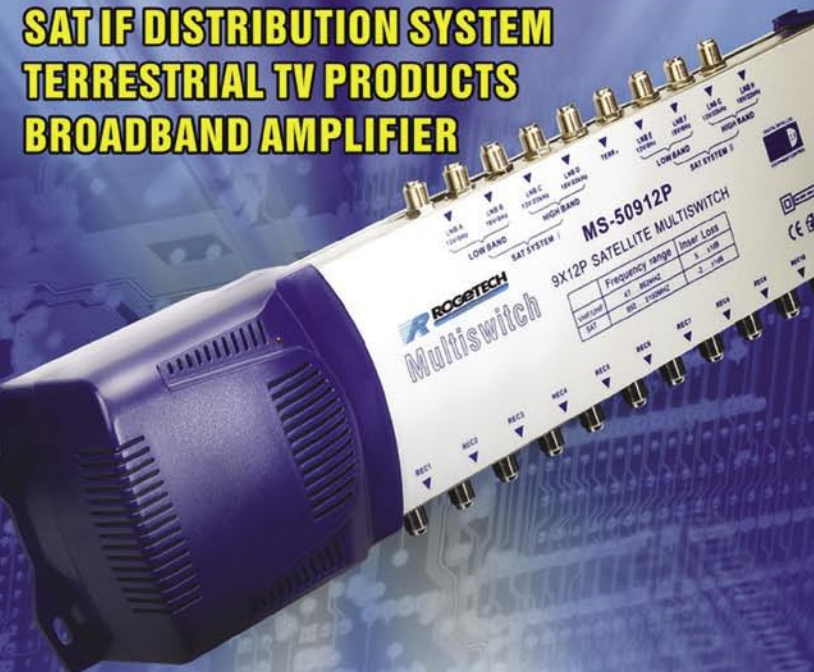
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**BRITISH TELECOM TO PROVIDE HD CONTENT**

BT is to offer High Definition (HD) content to users of its V-box Personal Video Recorder using their IPTV (basically TV over broadband) 'Vision' service. BT Vision is a digital TV service that offers DTT, a DVR (their V-Box), and supports TV and video content that's accessed on-demand over a BT Broadband connection. BT has announced an agreement with NBC Universal to include a selection of feature films in High Definition (1080i) format from the NBC Universal catalogue. Current films will cost £4.95 while older library titles will sell for £2.95. Films will have a 48 hour time limit for viewing.

**ORANGE TO OFFER ON DEMAND MOVIES ON IPTV SERVICE**

Orange is likely to build its IPTV service around on-demand films when it eventually launches a home TV service to take on Sky, Virgin, Freeview and BT Vision, late this year or the early part of next year. Nationwide trials for the TV service have been running in earnest, with trialists using the on-demand film service only in Leeds.

**SKY ADDS NEW CHANNELS**

Seven new HD channels will launch on the Sky+ HD service in October 2008, including six genre-themed Sky Movies channels in HD and a new HD version of Sky Real Lives. The addition of the new channels in October will increase the total number of HD channels on the Sky platform to 26, compared with nine channels when Sky+ HD made its debut in May 2006. The number of hours of native high definition content on the Sky platform will increase to around 10,000 per month, more than 2.5 times the amount of standard definition content offered by the five main terrestrial channels combined.

**NORTH AMERICA**

**GALAXY 19 LAUNCHES SUCCESSFULLY**

Intelsat's Galaxy 19 satellite was successfully launched on September 24 aboard a Sea Launch Zenit-3SL rocket. The satellite, built by Space Systems/Loral, will operate from 97 West, replacing the Galaxy 25 spacecraft. Galaxy 19 will provide 50-state coverage, in addition to reaching the Caribbean, Canada and Mexico, to video, government and network customers.

**CANADA**

**MTS ALLSTREAM TO USE ETI OSS**

MTS Allstream will use ETI's Triad OSS to integrate Microsoft's Mediaroom IP video technology to their CRM and billing infrastructure. Triad completely automates the provisioning of IPTV services to MTS Allstream's expanding subscriber base. Operating under the MTS brand in the province of Manitoba, the division offers consumers next generation wireless, high-speed Internet and data, digital television and wireline voice services, as well as home security services.

**NIMIQ 4 SATELLITE SUCCESSFULLY LAUNCHED**

Telesat, which is 64 percent owned by Loral and the world's fourth largest fixed satellite services operator, has successfully launched its state-of-the-art Nimiq 4 satellite. Nimiq 4 is fully leased to Bell TV, and will enable Bell TV to expand its advanced digital satellite television services over Canada by offering more HDTV, specialty channels and foreign-language programming. The satellite will be located at 82 degrees West.

**UNITED STATES**

**HOTWIRE SELECTS MOTOROLA FTTH SOLUTION**

Hotwire Communications is using Motorola's gigabit passive optical networking fibre to the home solution, MPEG-4 high-definition encoder and IP set-top box offerings to support IPTV and other services. Hotwire, which focuses on delivering fibre-based broadband to multi-family communities and home developments, student dormitories and military housing, serves customers in parts of Florida, Georgia, South Carolina, North Carolina, Virginia, Maryland, Pennsylvania, New Jersey and New York.

**AT&T IPTV ARRIVES TO MICHIGAN AND ARKANSAS**

AT&T Inc. has launched the company's integrated suite of AT&T U-verse(SM) services, including AT&T U-verse TV, AT&T U-verse High Speed Internet and AT&T U-verse Voice in Michigan and Central Arkansas. AT&T is the only national service provider to offer a 100 percent IPTV service which includes more than 45 High Definition channels.

**HILL COUNTRY SELECTS INFINITE VIDEO IPTV PLATFORM**

Texas-based Hill Country Telephone Cooperative has selected an IPTV platform from Infinite Video, a subsidiary of Canadian firm Even



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Technologies, to trial high-definition video services over its existing network. The trial will reach all of HCTC's 14,000 customers and deliver high-definition broadcast television, local programming, video on demand and features such as web browsing and electronic programming. Infinite Video's IPTV solution uses Even Technologies' video compression to deliver HD video at 3 Mbps over legacy networks.

**TELUS OPTS FOR HOME PNA STANDARD FOR IPTV**

Telus is extending approach to wiring their existing customer homes for IPTV by leveraging the ITU's Home Phone Network Alliance (HomePNA) standard. Working in conjunction with silicon vendor CopperGate, Telus will integrate HomePNA technology into STBs and gateways for its Telus TV service offering.

**NEULION AND NTOUCHTV OFFER ROMANIAN TV ON IPTV**

JumpTV and NeuLion, leading providers of live and on-demand international and sports programming over the Internet, have signed a new partnership with nTouchTV. NeuLion is now extending its unique service to Romanian audiences in North America. nTouchTV will be providing Romanian content to consumers' televisions through NeuLion's set-top-box technology. The initial service delivers 12 live channels, plus an extensive video on demand library offering hundreds of hours of current and classic Romanian movies.

**AT&T BOOSTS MPEG-4 COMPRESSION**

AT&T CTO John Donovan has announced that MPEG-4 video compression for the company's U-verse TV service will improve to around 5 Mbps next year from its present rate of about 6 Mbps to 8 Mbps. That efficiency gain also will

help AT&T support more simultaneous streams with its new whole-home DVR service in use-- three live streams and four recorded streams.

**AT&T DROPS DISH NETWORK FOR DIRECTV**

AT&T has decided to end its distribution agreement with Dish Network and instead will market and sell a co-branded version of DirecTV's satellite TV service after 31 January 2009. AT&T will market DirecTV services to households in areas where it doesn't provide U-verse TV. As of June 30, the company had 549,000 U-verse TV customers and the operator has said it expects to top 1 million subscribers by year's end. The service is available to more than 11 million living units in 53 markets.

**VERIZON FIOS TO ADD SIX HD NETWORKS**

Six start-up HD networks—with original programming about cars, comedy, pets, travel, food and entertainment—will debut by the end of 2009 with launches on Verizon's FiOS video service. The new HD channels Cars.TV, Pets.TV, Comedy.TV, MyDestination.TV, ES.TV and Recipe.TV have been created by Entertainment Studios, which bills itself as the largest independent producer and distributor of first-run syndicated shows for TV stations.

**RCN INCREASES HD CHANNELS IN WASHINGTON D.C.**

RCN Corporation has converted analogue spectrum to All-Digital in the Washington, D.C. area for all Cable TV customers. This move enables RCN to improve the picture quality, make the network easier to maintain, and dramatically increase the number of Standard Definition and High Definition (HD) channels it can offer to subscribers. The company has already initiated the Project Analog Crush in its Boston, Chicago, New York City and Philadelphia markets. The conversion will enable RCN to deliver

up to 10 standard-def digital or 3 HD channels per analogue channel, with the new line-up starting with 75 HD channels. In addition, RCN is increasing its VOD content, including hundreds of hours for free.

**MASN TO LAUNCH HD CHANNEL IN 2009**

MASN has announced the launch of a full-time high definition channel in March 2009 and will more than double the number of HD telecasts of Orioles and Nationals games next season. Expanding on its first season utilizing HD technology, MASN will air up to 200 Major League Baseball games in HD in 2009, broadcasting one HD game every night of the season. MASN distributors who will carry the full-time HD channel include Comcast, DirecTV, Cox, and RCN.

**DIRECTV EXPANDS HD CHANNEL OFFER WITH HARMONIC**

DirecTV has expanded its deployment of Harmonic's MPEG-4 AVC (H.264) video processing solutions to support its high definition (HD) national channel service. DIRECTV is now delivering more than 130 HD channels to its customers. Harmonic's DiviCom Electra 7000 HD H.264 encoders and ProStream 1000 stream processing platform with DiviTrackIP statistical multiplexing solution power DirecTV's continued HD expansion.

**DIRECTV AND TIVO TO OFFER NEW HD DVR**

TiVo is launching a new high-definition digital video recorder under an extended agreement with DirecTV Group. The new development deal extends the companies' agreement by five years to 15 February 2015, and calls for DirecTV to market TiVo's DVR products to new customers for the first time since DirecTV began using a rival DVR. The new TiVo-DirecTV DVR is expected to be available mid- to late 2009.

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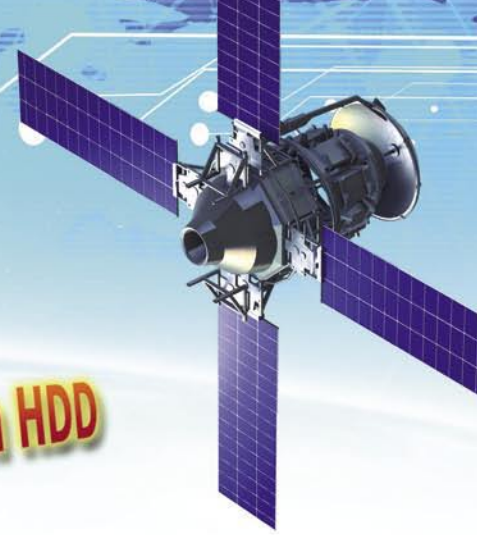


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**S 420**



**CANBY TELECOM OFFERS 36 HDTV CHANNELS**

Canby Telcom, based in the northern Willamette Valley of Oregon, has added over two dozen high-definition channels to its IPTV service 'Canby Digital Television', thanks to assistance from SES Americom's IP-Prime transport solution. Canby Telcom currently offers over 200 channels on IPTV, including 36 high-definition channels, EPG, VOD, PPV, and Caller ID on TV. The new channels added thanks to IP-PRIME include Discovery, Disney, Showtime, Fox News, ESPN, A&E and the Food Network, plus a handful of local broadcast services, all delivered in MPEG-4 format to the operator via a single satellite antenna.

**LATIN AMERICA**

**VOOM HD TO LAUNCH IN CENTRAL AND SOUTH AMERICA**

Voom HD Networks is set to debut its international high-definition channel in Central and South America for the first time. The agreement gives DLA the task of getting carriage deals for the international Voom HD channel in Mexico, Central America, South America and several Caribbean islands. The channel, comprised of titles from Voom HD Networks' various US high-def services, will have English audio, plus Spanish and Portuguese subtitles.

**IPTV REVENUES TO EXCEED US\$ 3.9 BILLION BY 2013**

IPTV in Latin America will enjoy "robust" growth from 2009, according to a study by Signals Telecom Consulting, with service revenues projected to exceed US\$ 3.9 billion by 2013. The consultancy also estimates that Telefonía and Telmex will represent 58% of the region's IPTV market by 2013, when approximately 19% of all pay-TV subscribers in the region's seven largest markets are predicted to be using IPTV services.

**COLOMBIA**

**ETB TO LAUNCH IPTV SERVICE IN 2009**

ETB has revealed new details of its plan to launch IPTV trials in 2009 and start commercial operations in July of that year. The operator is currently building its business model for the service, and aims to have a trial service in operation by the second quarter of next year. ETB will start the service in Bogotá, and aims to have around 18,000 subscribers for the service by the end of next year. The telco has been optimising its network in Bogotá and claims it can now offer speeds of up to 15 Mbps across almost all of the capital.

**MEXICO**

**MAXCOM PREPARES EXPANSION OF IPTV SERVICE**

According to Mexican broadband provider Maxcom's director General Rene Sagastuy, the operator is set to expand its fibre network with the aim of delivering IPTV services to more cities in the country. Sagastuy said that Maxcom is focusing on the development of its IPTV technology, adding 12,000 TV customers in just ten months, or 12% of the total.

**ASIA & PACIFIC**

**TAIWAN AND SINGAPORE TO LAUNCH SATELLITE**

Taiwan's Chunghwa Telecom (CHT) will set up a joint venture with a Singapore's SingTel to prepare for the launch of Taiwan's second commercial satellite in the fourth quarter of 2010. CHT's subsidiary in

Singapore will invest NT\$1.35 billion (US\$42 million) in the joint venture, giving it a 38% share, while the remaining 62% will belong to Singapore Telecom. The new satellite, dubbed ST-2, will replace its predecessor, the ST-1, which was launched by the two companies in August 1998. It will cover a wider area including Taiwan, Singapore, Japan, South Korea, China, India and the Middle East.

**IPTV SUBSCRIBERS TO REACH 8.7 MILLION IN 2012**

The Asia-Pacific IPTV subscriber base will reach 6.5 million in 2008 and grow to 8.7 million in 2012, according to a Gartner report. Revenues from IPTV services in the region will reach US\$ 3.5 billion in 2012. Hong Kong's PCCW is the region's best performer, WITH 758,000 registered users for its "nowTV" service, and is expected to eventually serve over 40% of the estimated 2.3 million households in Hong Kong.

**MEASAT SELECTED AS BEST REGIONAL SATELLITE OPERATOR**

Measat Satellite Systems has been awarded 'Regional Satellite Operator of the Year' at the 12th World Summit for Satellite Financing in Paris. The Malaysian company has won the award in 'Excellence in Satellite Management' category. The annual awards is decided by a panel of judges from EuroConsult, Satellite News and Satellite Finance, based on an assessment of the achievements and results of the world's regional satellite operators.

**AUSTRALIA**

**AUSTAR AND THOMSON TO PROVIDE HDTV**

Pay-TV operator Austar has selected Thomson to develop and supply a four tuner High Definition Personal Digital Recorder (PDR) platform along with extensive systems' integration services. The combination High Definition STB will mirror Austar's current MyStar STB, which features both dual Satellite and dual Terrestrial tuners, and will enable Austar to watch and simultaneously record both satellite content plus local Free-To-Air terrestrial services.

**CHINA**

**BAIDU EXPANDS IPTV SERVICES**

Leading web search site Baidu is expanding its cooperation with partner UiTV, operator of the country's largest Internet TV platform. Under the terms of the agreement, Baidu will contribute assets related to the operation of Baidu Internet TV Channel to UiTV in exchange for an 8.3% stake in UiTV and US\$ 15 million. Baidu Internet TV Channel, a website where users can download movies and TV programs, will continue to be hosted on movie.baidu.com and it will be operated by UiTV. The service works with most of China's online movie and TV service and content providers, including TVB, Enlight Media.

**INDIA**

**IPTV OPERATORS TO CARRY 8 DD CHANNELS**

In a memorandum issued to all IPTV owners, the information and broadcasting (I&B) ministry has listed eight, including Doordarshan and Parliament channels, on the must-carry list. The other must-carry channels are Lok Sabha Television, DD Rajya Sabha, DD-1 or national channel, DD News, DD Sports, DD Urdu, Gyan Darshan and DD Bharti.

**UTSTARCOM GETS AKSH OPTIFIBRE DEAL**

UTStarcom has signed a new contract with New Delhi-based Aksh Optifibre to deploy its RollingStream IPTV in 20 cities in India. The system will be carried over Bharat Sanchar Nigam's ADSL network, infrastructure built by

UTStarcom that supports more than 75% of the active wire lines in India. The IPTV offering, which will include live TV, VOD and gaming, will be available to more than 250,000 subscribers

**BSNL IPTV SERVICE TO COVER 100 CITIES**

State-run telecom operator Bharat Sanchar Nigam (BSNL) has set an ambitious target of bringing almost one-fourth of the total cable TV subscriber base (82 million cable homes) in the country with the launch of its IPTV service in the country. The company, which recently launched its IPTV services in Rajasthan, is planning to bring around 100 cities under this service by March of next year. Currently, the service costs Rs 200 a month.

**HFCL INFOTEL TO ROLLOUT IPTV IN PUNJAB**

HFCL Infotel will roll out its IPTV services in Punjab by the end of 2008, hoping to sign up 20,000 during the first phase. HFCL Infotel has tied up with Smart Broadband Services, allowing HFCL to use its infrastructure to launch IPTV services by way of rental arrangement. For its part, Smart Broadband in collaboration with MTNL has announced the launch of IPTV service for MTNL customers in Delhi.

**GOVERNMENT ISSUES IPTV GUIDELINES**

The Indian government has unveiled guidelines for the rollout of IPTV, which would require either a computer and software media player or an IPTV set top box to decode the images in real time. Under the new guidelines those eligible for providing IPTV include telecom Access Service Providers who have licence to provide triple play services and ISPs with net worth more than Rs.1 billion (around US\$ 25 million).

**BIG TV SELECTS THOMSON HEADEND**

Indian TV Group Reliance BIG TV has selected Reliance has selected Thomson's solutions for launching and managing a hybrid distribution network of satellite DTH and IPTV over broadband, for 300 high-definition (HD) and standard-definition (SD) video services throughout India. Using Thomson's video head ends, Reliance is able to optimise its distribution network to launch a large number of channels, ensure excellent quality of service, and reach more viewers.

**INDONESIA**

**PT TELEKOM TO BID FOR NEW SATELLITE**

Indonesia's largest telecommunication firm, PT Telkom, plans to bid for a new satellite during October at a cost of US\$ 150-200 million, according to a report by The Jakarta Post. The potential providers of the satellite are Lockheed Martin, Alcatel, OCbitel, GreatWall, and Mitsubishi. The satellite, which will be called Telkom-3 Satellite, is expected to be launched into orbit in 2010 or 2011. PT Telkom is currently operating its Telkom-2 satellite, which was launched in 2005.

**JAPAN**

**SKY PERFECT LAUNCHES HDTV CHANNELS**

SKY Perfect Communications plans to increase the number of HDTV channels to over 70 in a year and over 100 by fiscal 2012 ending in March 2013. The company aims to have one million subscribers in four to five years, according to its president, Masao Nito. A package of five HDTV channels and 68 standard-definition channels costs 3,500 yen per month.

**JORDAN**

**ORANGE LAUNCHES IPTV WITH INTRACOM TELECOM**

Orange has launched its 'Orange TV' IPTV service in Jordan, in collaboration with Greece's Intracom



# PASAT ANTENNY

## SATELLITE AND COMMUNICATION ANTENNAS

■ solid ■ aluminium ■ prime focus



250 CM



240 CM



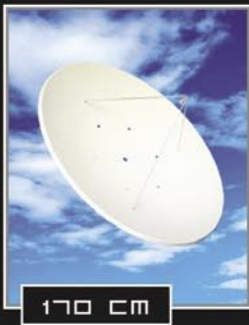
220 CM



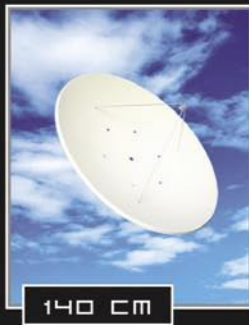
210 CM



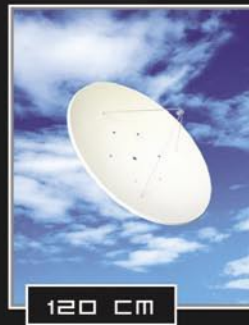
190 CM



170 CM



140 CM



120 CM



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Telecom and the Arab Radio and Television Network (ART). The service offers broadcast TV, VOD and interactive services such as weather, news and local information, and the offering will reportedly feature premium Arabic and international content. The new IPTV service offers two subscription tiers, with the basic tier costing JOD 25 (US\$ 35) and offering 21 satellite channels, while the higher tier costs JOD 30 and offers an extended tier of 25 channels. VOD streams cost JOD 1.50 per request.

### KAZAKHSTAN

#### NETRIS AND SECUREMEDIA PARTNER ON IPTV PROJECT

US content security firm SecureMedia and Russian systems integrator Netris have partnered to deliver an end-to-end IPTV installation in Kazakhstan for local operator JSC Kazakhtelecom. The new IPTV solution will allow JSC Kazakhtelecom to roll-out IPTV services including broadcast content, VOD, PVR, time shifting, HD content and more. It will initially be available in Astana and will then extend to other major cities throughout Kazakhstan. The IPTV platform delivered by Netris includes IPSoft iVision middleware, Netris' advanced platform for interactive service delivery and SecureMedia's Encryptonite ONE System software-based content protection.

### PAKISTAN

#### PTCL LAUNCHES IPTV SERVICE

Pakistan Telecommunication Company Limited (PTCL) has launched an IPTV service under the brand name PTCL Smart. The PTCL Smart Line service includes Interactive Television, Broadband and voice Telephony all at the same time on PTCL's telephone line. Smart TV is offered in multiple tariffs, which includes 'Smart Line' Tariff, which is 512 Kbps for Rs 1499/month; 2Mbps for

Rs 5299/month and 1Mbps for Rs 2299/month. The package also includes equipment charges with one time Purchase Price Rs. 9995 and STB Rental/month Mandatory for 24 Months Rs 500. Smart TV offers a total of 12 channels.

#### PAKISTAN TO LAUNCH SATELLITE BY 2011

Pakistan plans to have a communications satellite by 2011 as part of its National Satellite Development Programme. The country currently has the leased satellite Paksat-1, and this will hopefully be replaced with the state-of-the-art Paksat-1R communications satellite in three years, according to Air Commodore Arshad Hussain Siraj, Secretary of the Pakistan Space and Upper Atmosphere Research Commission (SUPARCO).

### SOUTH KOREA

#### SOUTH KOREA TO LAUNCH NEW SATELLITE IN 2010

South Korea's largest communications service provider KT has signed a contract with France's Arianespace to launch the satellite Mugunghwa-Six in August 2010 from French Guiana. The new satellite will replace the current Mugunghwa-Three, whose mission will end in December 2011. The Mugunghwa-Six will allow KT to meet the increasing demand for high-definition broadcasting, as terrestrial broadcasting must go fully digital by 2013.

#### SK BROADBAND LAUNCHES IPTV SERVICE

Korea's broadband TV operator Hanarotelecom has rebranded itself as SK Broadband and launched an IPTV service in October. The company has already signed output deals with more than 270 content providers, including Walt Disney, Sony Pictures and local giant CJ Entertainment, to supply programming for its 'broad&tv' IPTV service, as well as the "Hanabox" video-on-demand system.

The company will invest a total of US\$ 502 million will be spent acquiring content by 2012.

#### KT LAUNCHES IPTV SERVICE

KT has launched an IPTV service called Mega TV, which will initially carry 12 TV channels including KBS1, EBS, home shopping channels, and movie channels such as Catch On and Sky HD. KT plans to invest W1.7 trillion until 2012 to expand the list of serviced channels to 130, and provide closed users group (CUG) service to specific groups like churches and companies. Interactive shopping and VOD services will also be featured. KT aims to secure at least 300,000 subscribers by the end of this year, 1.1 million by next year, and 3 million by 2011.

#### 3 IPTV SERVICE PROVIDERS SELECTED

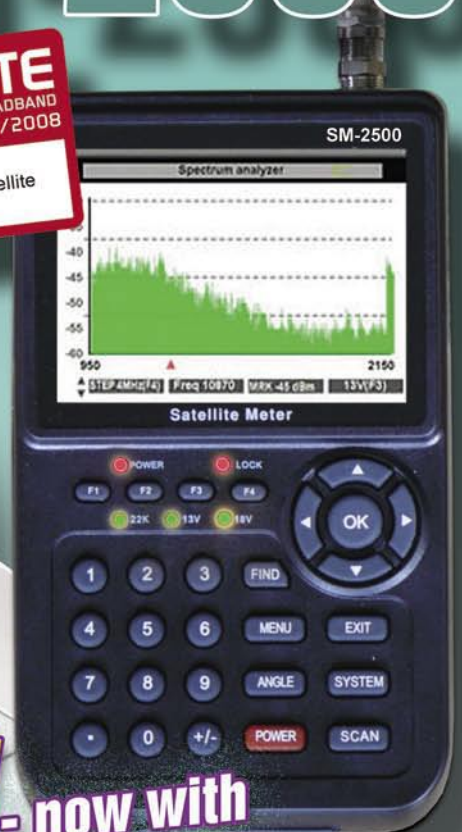
KT, Hanaro Telecom and LG Dacom were selected as the country's three IPTV service providers. The decision came after the Korea Communications Commission assessed four applicants including the three companies and Open IPTV in a general meeting. Launched by Daum Communications, Open IPTV was eliminated for failing to meet the financial requirement among the set evaluation criteria. The three service providers have started delivering programs from free-to-air channels including KBS and MBC in real time.

#### HANARO TELECOM SELECTS CORRIGENT INFRASTRUCTURE

Hanaro Telecom has selected Israeli firm Corrigent's CM-100 product line as a main network infrastructure to deliver premium IPTV services. Corrigent's technology was chosen to enable the provision of legacy TDM services as well as advanced data services, including IPTV, for which the operator reportedly plans to increase its penetration using FTTH and offer value added

# Trimax SM-2500

**TELE  
SATELLITE  
AWARD & BROADBAND**  
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**TRIMAX SM2200**  
An ideal tool for any satellite  
system installer



**NEW** - now with  
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email: [trimaxmeters@mts.net](mailto:trimaxmeters@mts.net)

services. Corrigent's CM platforms offer a 10Gbps solution combining Ethernet transport, full support of legacy SONET/SDH capabilities, MPLS and RPR technologies, and end-to-end network management.

## SRI LANKA

### SRI LANKA TELECOM OPTS FO OPTIBASE ENCODERS FOR IPTV SERVICE

Optibase's advanced encoders have been selected by UTStarcom as part of an end-to-end integrated IPTV solution to Sri Lanka Telecom. Sri Lanka Telecom will use UTStarcom's RollingStream advanced IPTV solution, which incorporates Optibase's H.264 streaming platforms, to offer the country's first ever triple play services. Optibase's H.264 Media Gateway (MGW) 5100 encoding platforms, renowned for their top video quality and quick deployment, offer a highly reliable streaming solution.

## TAIWAN

### CHUNGHWA TELECOM REVISES IPTV TARGET

Chunghwa Telecom has revised its year-end subscriber target for its IPTV service from 1.2 million to 800,000, according to research firm Media Research Asia. The operator's Olympic coverage was reported to have boosted IPTV subscriber numbers by around 15%, and Chunghwa currently has about 570,000 users with average revenue per user of TWD 107 per month. The operator is also planning to spend TWD 30-31 billion (US\$ 943-975 million) in IPTV-related capital expenditure this year.

## THAILAND

### TRUEIPTV RELAUNCHES OPERATIONS

TrueIPTV Co, the IPTV arm of True Corp, has completed business and organisational restructuring. It now has a new shareholding structure, a clearer business role and definition of the target market segments for IPTV and TrueVisions' conventional cable and satellite Pay-TV services. Paisit Vatjanapagorn, general manager, said TrueIPTV has relaunched as a "premium service" targeting affluent Thais and foreigners living in Bangkok. The company is offering 12 TV channels including multi-language soundtracks, knowledge-based programmes and karaoke-on-demand. It hopes to double the subscriber base to 6,000 early in 2009.

## THE PHILIPPINES

### ECI TELECOM PROVIDES BROADBAND ACCESS TO PLDT

ECI Telecom has signed an agreement for the supply of broadband access solutions to Philippines Long Distance Telephone Company (PLDT). ECI's Hi-FOCuS-5 Multi-Service Access Node (MSAN) central office and outside plant solution was chosen to support PLDT's nationwide expansion of high-speed internet DSL services for both business and residential customers over the operator's existing copper infrastructure. Part of ECI's 1Net business framework, the Hi-FOCuS is a carrier grade, future-proof MSAN solution, providing PLDT with the optimal transition path to a next-generation network solutions as it looks to deliver new services such as IPTV and VoIP in the future.

## WORLD

### AMINO SIGNS GLOBAL DEAL WITH ERICSSON FOR IPTV INTEGRATION

Set-top box manufacturer Amino Communications has signed a global deal with Ericsson to integrate its IPTV systems with the telecoms giant's new software. The news came as Amino also unveiled a plug-in solution enabling telecom operators to provide their IPTV subscribers with personal video recording (PVR) capability without the need for hard drives. The solution allows users to attach a USB drive to their existing set-top box and access their files, transferring them to view on any set-top box. The PVR concept will be offered over the next few months.



# SONICVIEW



SV-360 Premier



SV-360 Elite



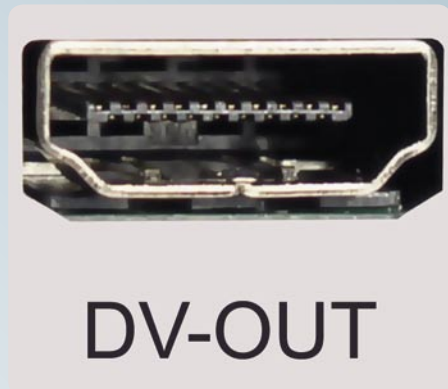
SV-HD8000

# The Features of a New Satellite Receiver

Heinz Koppitz

*Satellite receivers have undergone some significant improvements over the past several years. Not only has the transmission technology improved, they've become much more intelligent, faster and more comfortable – and even more energy efficient. We've put together a list of features that you should look for when buying a new satellite receiver.*

## HDMI with 1080 Lines



High definition television brought with it a substantially better picture: a fully digitized data transmission and the jump from PALs 576 lines (480 lines for NTSC) to 1080 lines. This only goes to show that the analog video signal with S-Video and even the Scart system with RGB outputs has become obsolete. Modern satellite receivers now come with the new small HDMI output that carries the 1080 lines of resolution from the receiver to the TV.

HDMI also works with standard resolution. This is accomplished with "upscaling". These satellite receivers calculate the lines that are missing and add the result to the standard signal such that 1080i resolution is achieved. This "upscaled" signal can be viewed on any modern "HD-Ready" LCD TV. Keep in mind that this is not the real high definition TV that is possible with 1080p resolution.

## Alphanumeric Display on the Receiver



Up until now the display of channel names on the front panel was only avail-

able in a few receiver models. But today this technology is considered standard and you'll find this feature now even on lower-end receiver models. This type of display shows the title of the program and sometimes even programming information. The increasing number of radio listeners that utilize quality satellite reception no longer need to turn on their TV; the name of the radio channel is shown in the receiver's display.

## USB Connection for Data Transfer

In earlier receiver models it was the serial interface that allowed communication between the receiver and a PC. Today it's the USB interface that takes care of this task. But USB lets you do much more: you



can insert a USB memory stick to handle an ever increasing number of functions: upload a new channel list, upgrade the receivers operating software and even temporarily record time-shifted programs.

## User-Settable Blind Scan

Searching for digital signals has just about reached the same capability as that for analog signals where a user simply had to press a Scan button. The disadvan-



tage of digital and compression technology where multiple parameters needed to be entered is now a thing of the past. Receivers have become so intelligent that they can find not only parameters such as symbolrate, polarization and PIDs all by themselves, but transponder frequencies as well. A Blind Scan can differentiate between a channel carrying a TV signal and one that is data only. In many cases the user can optimize the scan speed by adjusting what frequency steps to use during a blind scan, whether to look for radio or TV channels and also what symbolrate range should be used.

## Easy Channel Organization

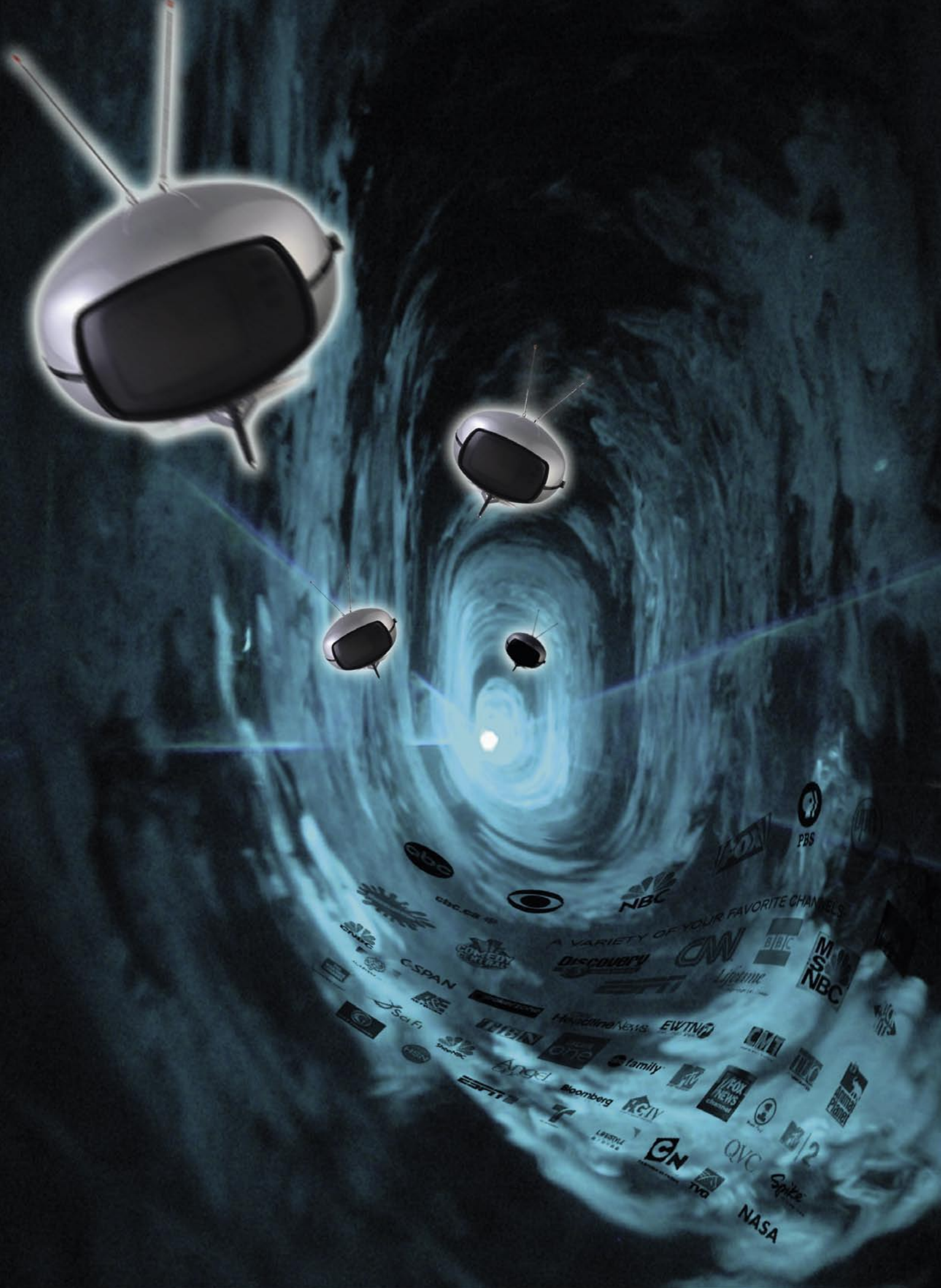


Where in the past it was more difficult to arrange the TV and radio channels in a more logical order for quicker channel access, today multiple Favorites lists make this much easier. But if you prefer to select a channel directly from the main channel list, you will also find easy-to-use editing functions here such as moving and deleting channels. External editors allowing users to organize channel lists on a PC are also becoming more and more standard – a feature especially useful with multifeed and motorized systems.

## Environmental Friendliness

Satellite receivers are consistently being designed to use less and less energy. 12W in use and 4W in standby are becoming the norm. Main power switches let you completely turn off power to the receiver. New boot routines guarantee that no settings data will be lost when a receiver is turned back on and that reception will quickly be restored.

Because of all these improvements, it would be well worth it to eventually, or at the very least when you go out and buy a new LCD TV, to replace your current satellite receiver with a newer model that incorporates all of the previously mentioned features.



# Jiuzhou DTS6600

## 一款适于各种场合的 高清卫星电视 PVR 接收机

对于九洲公司来说,过去并没有显现出他们将在新产品市场上会有什么创新举措。这也就是为什么我们在实验室中几乎找不到一个九洲 DVB-S/2 高清卫星电视 PVR 接收机的原因,毕竟具有 PVR 功能的高清卫星电视接收机将是下一步的热点。而有了 DTS 6600,说明九洲公司意欲在将来扮演一个重要的角色。

该接收机的银色外壳朴实无华,但是却很耐看。前面板有个 4 位字符的显示窗,旁边有两个 LED 发光二极管,显示着接收机的状态。

在仓盖后面,隐藏着七个按钮,可以不用遥控器就可以操控 DTS 6600 接收机,两个 CI 插槽兼容所有标准的模块,如 Irdeeto、Seca、Viaccess、Conax 和 Nagravision 等。而待机开关按钮则不用动仓盖就可以直接按动。



后面板上有各种类型的插口,如一进一出的卫星信号插口,一个 HDMI 插口可以满足全部数字音视频传输需要,三个 YUV 插口和另外三个立体声 RCA 音视频插口,很明显,它面向的是欧洲市场 - 它有两个欧插。

数字音频输出可以向任何家庭电影院系统输出清澈透明的声音,一个 USB 2.0 接口用于接驳 PVR 功能的外接存储,而主电源开关更使整体功能趋于完美。

随机的遥控器具有良好的

手感,按键易于操控,标注清晰,反应灵敏。

使用手册结构清楚,功能图示详尽,回答了接收机使用过程中所有可能出现的问题。总的来说,这款接收机具有良好的制造工艺水平和较好的质量,只是外观设计稍显保守。

### 日常使用

九洲 DTS 6600 接收机具有一个安装向导,而我们测试的机型已经预置了 122 个以德语为主的频道。实际上我们看到 19.2° E 的 ASTRA 和 28.2° E 的 ASTRA2 卫星上所

## TELE-satellite World

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Turkish	Türkçe	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/tur/jiuzhou.pdf">www.TELE-satellite.com/TELE-satellite-0901/tur/jiuzhou.pdf</a>

Available online starting from 28 November 2008

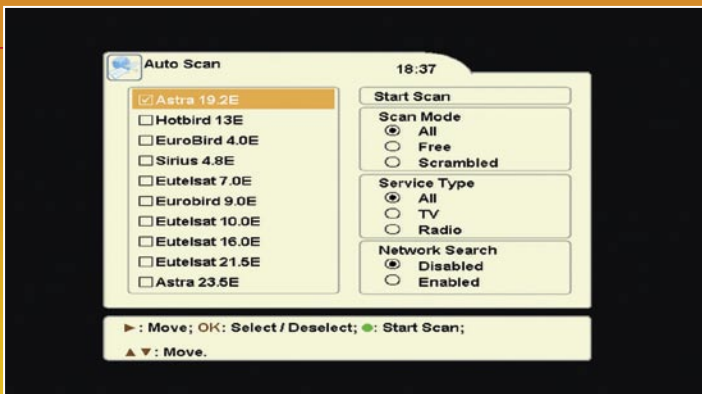
有用德语和英语传输的高清电视频道都已经包含在频道目录里了。

如果要订制个人需要的参数,只需按下菜单键,上面有结构清晰、编排良好的功能选择项。主画面被分为五个部分,每个部分又分为若干子

项。这款最新型号九洲接收机的 OSD 系统除了德语、英语、荷兰语和法语之外,并没有安装更多的语言。可以肯定的是,你将来可以从生产厂家那里下载更新软件来实现功能扩展。

为使 HDMI 功能全部派上用场,接收机支持 576 p、720 p 和 1080 i 的视频格式。唯一遗憾的是没有自动





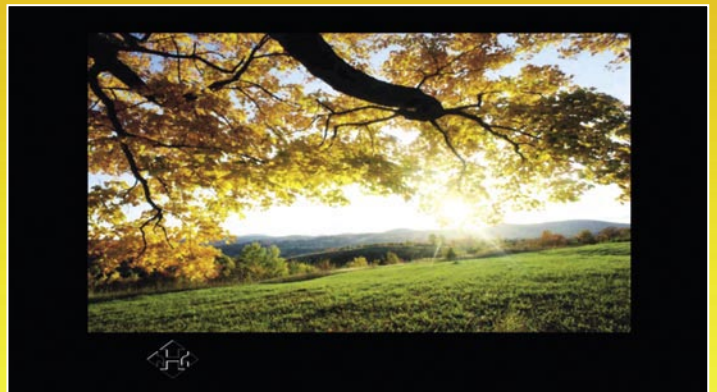
自动搜索 |



信息条 |



EPG |



JPEG图片浏览 |

切换,但是我们相信生产厂家会在适当的时间里加上这一个功能。

如果你连接的是普通显像管电视,可以使用 RGB 模式。如果你的电视有相应的功能,也可以使用 CVBS 和 YUV 模式。

当然,诸如 16:9和 4:3 宽高比的基本功能选项都可以实现,而数字光学音频输出可

可以用手动设置。让我们喜欢的是: 你可以将接收机设定为在待机时显示时间而不是频道号码。而实际上在你使用 DTS 6600 的所有功能之前,你必须首先设置好接收系统所需的参数。它支持 DiSEqC 1.0 协议来接收 4 卫星,用 1.1 协议可接收多达 16 个卫星,而用 1.2 和 1.3(USALS)协议则可以接驳极轴天线。

发器数据需要进行更新,因为它们最近变化频繁。用一个简单易用的卫星和转发器编辑器,可以方便地增加、删除或者编辑卫星和转发器。

除了接收 Ku 波段之外,这款九洲高清卫星电视接收机也可以接收 C 波段信号,它可以自由可选择 LOF 数据,甚至一些特殊的 LNB 也可以与它接驳。由于具有各种类型的波

段和极化转换方式选项,使它具有很强的通用性。

当基本的安装设置完成后,该要把 5000 个频道存储空间装满了。为此,可以选择自动或手动搜索。而令我们惊喜的是: 频道搜寻的 OSD 系统显示清晰明了。这样可以用自动搜寻功能,扫描到未知的卫星。你可以选定搜索 FTA、加密或所有频道。也可以告诉



以提供 PCM 或杜比数字(比特流)信号。

这款最新的九洲接收机可以直接从卫星信号获得正确的时间,如果你需要的话,也

目前的卫星目录预存有 56 个欧洲的卫星位置,我们也注意到一些特



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它你是否在电视频道之后加上广播电台。

如果需要,你也可以用网络搜索将以前预置时删掉的任何付费电视转发器找出来。在我们的测试中,搜索一个具有100多个转发器的卫星也只用了将近十分钟,这意味着它稍慢一点点。

当然,手动扫描会给你更多的选择,你可以手动输入频率、符号率、极化、PID码,调制方式(DVB-S接收机支持的QPSK和DVB-S2接收机支持的QPSK和8PSK)及FEC。

在我们的测试中搜寻了一些卫星之后,得到了数以千计的频道,许多真的值得欣赏。

所以,我们还要对这些混乱的频道加以整理。幸运的是,DTS 6600提供了一些选项。可以删除、移动、重新命名单个的频道,也可以用一个PIN密码让你的小孩看不到不适合看的节目。共有八个喜爱频道目录表可用。

在我们测试的过程中,频道和喜爱节目目录使用得很顺利。在这里,生产厂家所提供的界面富于逻辑性,使用户易于接收,即使是初学者也毫无困难。

当频道目录整理完毕,我们就要退出主画面,然后按按下-你猜对了!-退出按钮。这使接收机转到频道目录上第一个频道,而按下OK按钮则会出现所有排列好的频

道目录。使用遥控器上的FAV或SAT按钮,可以显示出卫星的频道目录或喜欢的频道目录。

通过遥控器上的变焦按钮,可以将频道目录进行分类。

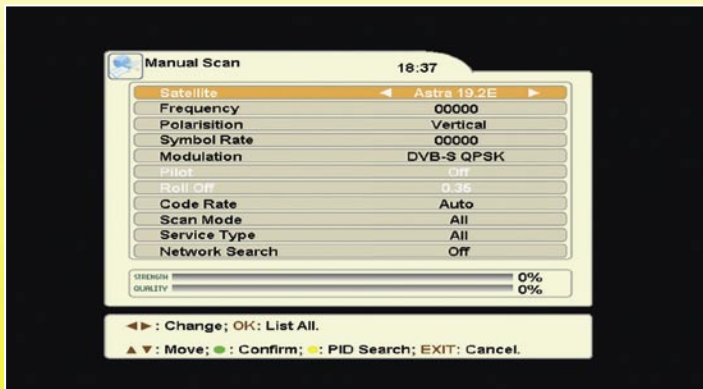
新型九洲接收机在频道之间的切换还是很快的,即使在标清和高清频道之间切换也很快。我们还很欣赏测试中它用HDMI连接方式在一个42寸等离子和一个40寸LCD平面电视所表现出来的图像质量,真的是纤毫毕现。

每当接收机切换到一个新的频道时,它会插入一个信息条,详细显示出当前以及下个频道的有关信息,如加密方

式、副标题,DD音频等,而信号质量和强度,以及卫星和频率也显示出来。

遥控器有专门的按钮来选择声音轨道和副标题(如果提供的话)。如果你的电视机没有内建图文电视功能,那你可以用该机的软件解码器来看。(目前DTS6600没有输出格式的自动切换功能,但可以用遥控器上的功能按钮来进行切换。

当一个高清电视频道用1080i格式传送时,它可以非常便利切换(用接收机可以实现最好的收看效果),而当你切换到标清电视节目时,会让你选择720p或576p的播放格式,以实现最好的图像显示效果。



手动搜索 |



重放高清电视节目 |



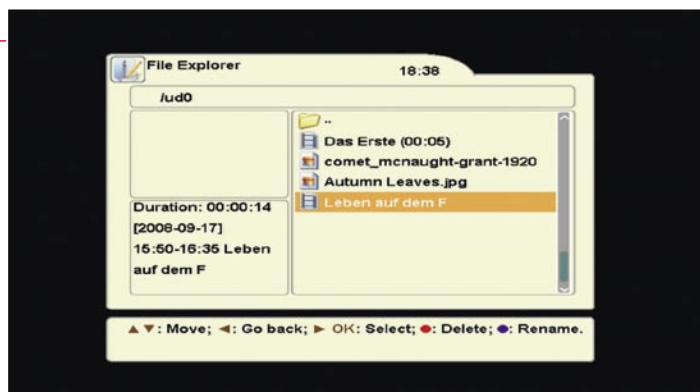
按下 EPG 按钮,可以同时显示六个频道的画面。借助彩色按钮,你可以改变日期或者跳到当前的时间。当然,信息条也会提供当前及下一个频道的信息。如果你需要确保不错过一个特别的节目,你可以定义多达八个定时器设置。这些操作必须用手设定。

和我们所有的测试一样,九州 DTS 6600 接收机最后必须证明它的门限水平。我们在这方面喜欢用接收真正的弱信号来比较,于是,在我们当

地接收了来自 7° W NILESAT 和 28.2° E 上 ASTRA 2D 的水平信号。

SCPC 有所不同,虽然我们仍无法确认生产厂家所标称 1 至 45Ms/s 的符码率。但我们可以尝试接收 42° E 上 TURKSAT 符码率为 2Ms/s 的信号。这一次,调谐器锁住了信号,接收非常稳定。

最后, 我们想要看看这款接收机主要功能之一的 USB 2.0 接口。它用来接驳外接硬



浏览录像和图片 |



卫星及转发器编辑器 |



## 专家的结论

+

九洲 DTS 6600 是一款易于使用的 DVB-S/2 高清卫星电视 PVR 接收机,功能符合需要,应用范围广。它完全适于日常使用,也完全适合初学者和专家们。



Thomas Haring  
TELE-satellite  
Test Center  
Austria

-

我们收到的测试产品是一个以前发布的版本,这意味着会有一些具体变化没有测试到。SCPC 是我们关注的一个要点,当它进行搜索的时候,时间切换功能没有了。我们坦诚希望,生产厂家将在库产品解决这个小问题。

盘或 U 盘,它将 DTS 6600 变成一个真正的 PVR 接收机。在我们的测试中,高清和标清电视信号都能够进行录制和重放,包括时间变化,整个功能运行稳定。

功能,甚至可以代替老式幻灯机。

遥控器没有专门的 PVR 按钮,可以通过按下变焦按钮和彩色按钮来实现 PVR 功能。

除了 PVR 和幻灯机功能之外,通过 USB 接口也可用来更新接收机软件,可以用个人计算机从九洲公司的网站下载后通过 U 盘在接收机上安装。

如果你喜欢,还有更容易的办法,就是你也可以从卫星上直接下载最新的软件。

通过主画面可以实现文件浏览功能,它可以用来查看外接存储器上的相关数据。

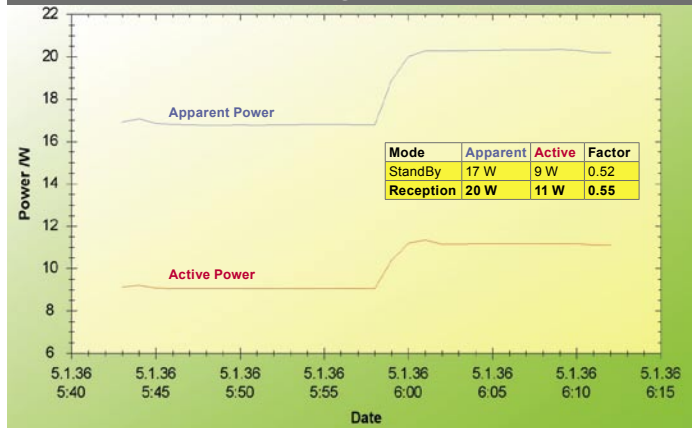
DTS 6600 不仅可以列出所有录制的节目目录,它还可以列出图片目录并在电视上显示出来,这是一个非常便利的

总的来说,新款九洲 DTS 6600 是一款极具潜力的高清卫星电视接收机。它具有一些用途广泛的功能。

## TECHNIC DATA

<b>Manufacturer</b>	Sichuan Jiuzhou Electric Group Co., Ltd. Jiuzhou Electric Building, Southern No. 12 Road Hi-Tech Industrial Park, Nanshan District, Shenzhen, China
<b>Fax</b>	+86 755 26748419
<b>E-Mail</b>	huangwei@d-telemedia.com
<b>Model</b>	DTS6600
<b>Function</b>	Digital PVR satellite receiver for SDTV/HDTV in DVBS and DVBS2 (QPSK/8PSK) MPEG2 and MPEG4
<b>Channel memory</b>	5000
<b>Symbol rates</b>	1-45 Ms/sec.
<b>SCPC compatible</b>	yes
<b>DiSEqC</b>	1.0 / 1.1 / 1.2 / 1.3
<b>USALS</b>	yes
<b>HDMI connection</b>	yes
<b>Scart euroconnectors</b>	2
<b>Audio/Video outputs</b>	3 x RCA
<b>Component output</b>	3x RCA
<b>S-Video output</b>	no
<b>UHF Modulator</b>	no
<b>Digital audio output</b>	yes
<b>EPG</b>	yes
<b>C/Ku band compatible</b>	yes
<b>PVR function</b>	yes (with external USB 2.0 storage medium)
<b>Power supply</b>	90-250 VAC, 50/60 Hz
<b>Dimension</b>	34/26.5/6cm
<b>Weight</b>	2.8kg

## ENERGY DIAGRAM



接收机待机的最初 15 分钟,稍后是接收和频道切换、PVR 回放等的另外 15 分钟。



# Celebrating 50 years-Jiuzhou!

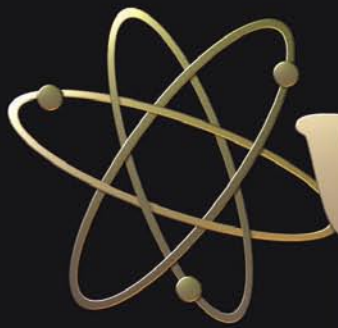
## 50岁的九洲!

2008 年 11 月 16 日,九洲公司隆重

庆祝她的第 50 个生日。这家国有企业创建于 1958 年,专业生产数字电视系统,包括发光二极管、射频身份辨识产品、宽带网络系统、光纤和同轴电缆,当然还有卫星接收机,这构成了他们出口的大部分。九洲公司属于中国电子信息产业的 100 强企业。而且,九洲也属于中国最具发展前景的 500 强企业,2008 年,她的营业额为十亿美元,她也属于中

国最大的 1000 家企业。2009 年,九洲公司的目标是达到十五亿美元的营业额。九洲要进入中国公司的前列并跻身世界级数字电视公司行列。

在《国际卫星电视》2008 年的 02-03 期上,有一个关于九洲公司比较详细的报道,可从 [www.TELE-satellite.com](http://www.TELE-satellite.com) 上下载。



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# OPENSAT XT-9500 HD

## 专为高清电视而设计

我是属于喜欢实用胜过美观的那种人，毕竟华丽有时不免肤浅，如果它不工作那再好看也没有用。但是我也不得不承认，当打开包装盒的时候，也被 OPENSAT XT-9500 HD 高清接收机所具有的简约抽象艺术之美所深深吸引。这款典雅的黑色接收机出自斯洛伐克的 ABC BIZNIZ 公司，它具有高清接收性能和丰富的接口，外加吸引人的价格，难道我们真的是可以熊掌和鱼得兼吗？

待机开关位于前面板上，同时还有垂直的按钮，用于控制频道和音量。开机时它们会发出红色，而且亮度也足够大 - 即使是在黑暗的房间看电视的时候也很显眼。开机时会清晰地显示频道的名称和序号，而待机时则显示时间。在待机状态下，这些按钮依旧发出红光，同时发出红光的还有待机开关按钮。

在前面板的仓盖后，我们找到两个 CI 付费电视模块插槽和一个读卡器插口。还

有一个USB插口，用以接驳 U 盘来升级接收机软件。

### 初始安装

在开始使用前，还有许多选项要操作。有两个欧插用于接驳电视和录像机，为了便于进行录制，录像插口的输出总是定义为标清水平，因此即使是高清节目也能容易地录制到 DVD 光盘或录像带上。如果你的电视能够处理相应的信号并具有欧插接口，将其电视插口设定为使用分量视频



模式，这样你仍然能获得高清电视的效果。

除了 RCA 复合视频插口，还有 HDMI 这种标准的高清电视信号连接方式，再就是分量视频输出。但是对于我们那些老朋友来说，现在已经再也没有 UHF 的射频接口了。

我还有一台老式的显像管电视机，但它有能处理高清信号的复合视频接口。仅仅经过几分钟，我就收看到了 ASTRA 2 卫星上的 BBC 高清电视节目。

在菜单里可以选择各种连接类型，如 RGB、复合视频或分量视频，在遥控器上专门有一个按钮用于控制显示格式。显示格式从 480p 一直到 1080i 都有。这也给那个标清

VCR 插口一个增加了功能，同时消除了我开始时的困惑。你可以使用你的电视来分辨正确的显示格式。

如果你像我说过的那样看不到了正常的图像时，就将电视接到录像插口上，这样就不会看到菜单。我有一次就用这种办法看到了完美的 1080i 高清图像，然后才和录像插口暂时告别。

高清电视节目的图像质量如你所预期一样，非常令人赏心悦目。我从前每天看电视就是通过天空+接收机接收的标清节目，我那时也常常骄傲于所看到的图像质量，这毕竟是用优质的同轴电缆和一个 RGB 插口连接的。而高清电视之于图像质量的提升相当

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Farsi	فارسی	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/far/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0901/far/opensat.pdf</a>
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Croatian	Hrvatski	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/hrv/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0901/hrv/opensat.pdf</a>
Italian	Italiano	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/ita/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0901/ita/opensat.pdf</a>
Hungarian	Magyar	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/mag/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0901/mag/opensat.pdf</a>
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Russian	Русский	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/rus/opensat.pdf">www.TELE-satellite.com/TELE-satellite-0901/rus/opensat.pdf</a>
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Available online starting from 28 November 2008

令人惊奇，反衬出从前的图像就相对有些模糊。感叹过去用 RGB 看了那么久！

很遗憾，我们还处在高清电视的早期阶段，免费频道里可供观赏的节目还是寥寥无几。尽管我们在收看标清电视时通过使用分量信号或 HDMI 方式比普通标准接口能够得到一些图像质量的提升，但是

它还不是真正的高清，还有很大距离。

声频是通过传统 RCA 插口输出的，也可以使用 S/PDIF 数字光纤输出。

接收机的菜单清晰，简洁，而且编排合乎逻辑。语言选择也非常不错，共有 18 种语言，包括最主要的欧洲语言，



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



再加上阿拉伯语和波斯语,东欧的那些人们会很高兴,因为它还包括捷克语、斯洛伐克语、斯洛文尼亚语和匈牙利语,真的很不错。

对于第一次设置来说,进入安装菜单是头一步。接收机目录里预置了多达 51 个卫星,可以根据需要对它们进行编辑、删除或增加。相对应的转发器目录也是林林总总,并且都是最近更新过的。

通过使用 DiSEqC 1.2 和 USALS 协议,用户可以很容易地控制 DiSEqC 马达。它也支持 DiSEqC 开关,而各个 LNB 的参数都可进行编

辑的,大多数设置都很容易操作。

频道扫描也不错。既可以扫描所有的转发器,也可以只扫描单个转发器。还有网络扫描,它对于诸如 ASTRA 和 HOTBIRD 等节目多的卫星来说非常有用。最妙的是还附有一个 PID 过滤器功能,它可以只扫描电视或广播。卫星和转发器菜单设在一起,可以根据需要进行编辑。转发器菜单里具有 PID 编辑功能,难得的是可以根据需要手动输入 PID 码。

整个卫星的搜索相当迅速。对 ASTRA 2 卫星 83 个

转发器的全部网络扫描花了 16 分钟。在扫描之后,被发现的频道目录可以在存储进接收机记忆之前进行编辑。它没有盲扫功能,但是当考虑到这是一个设计用于收看普通电视的接收机而不是用来搜索未知频道的,这一点也就无所谓了。

当频道安全存储完毕之后,我们就要按照自己的意愿进行对频道目录进行编辑。这个过程并不令人愉快,但是 XT-9500 HD 却做得比从前容易。我们进行了编辑、分类和过滤,它很容易凭直觉来操作。可以建立八个喜欢的频道目录,向其中添加频道也很容易。会有一个视窗显示下一个复制好准备加入频道目录的频道。这也可以切换到频道目录,显示允许编排和编辑的频道。

## 日常的使用

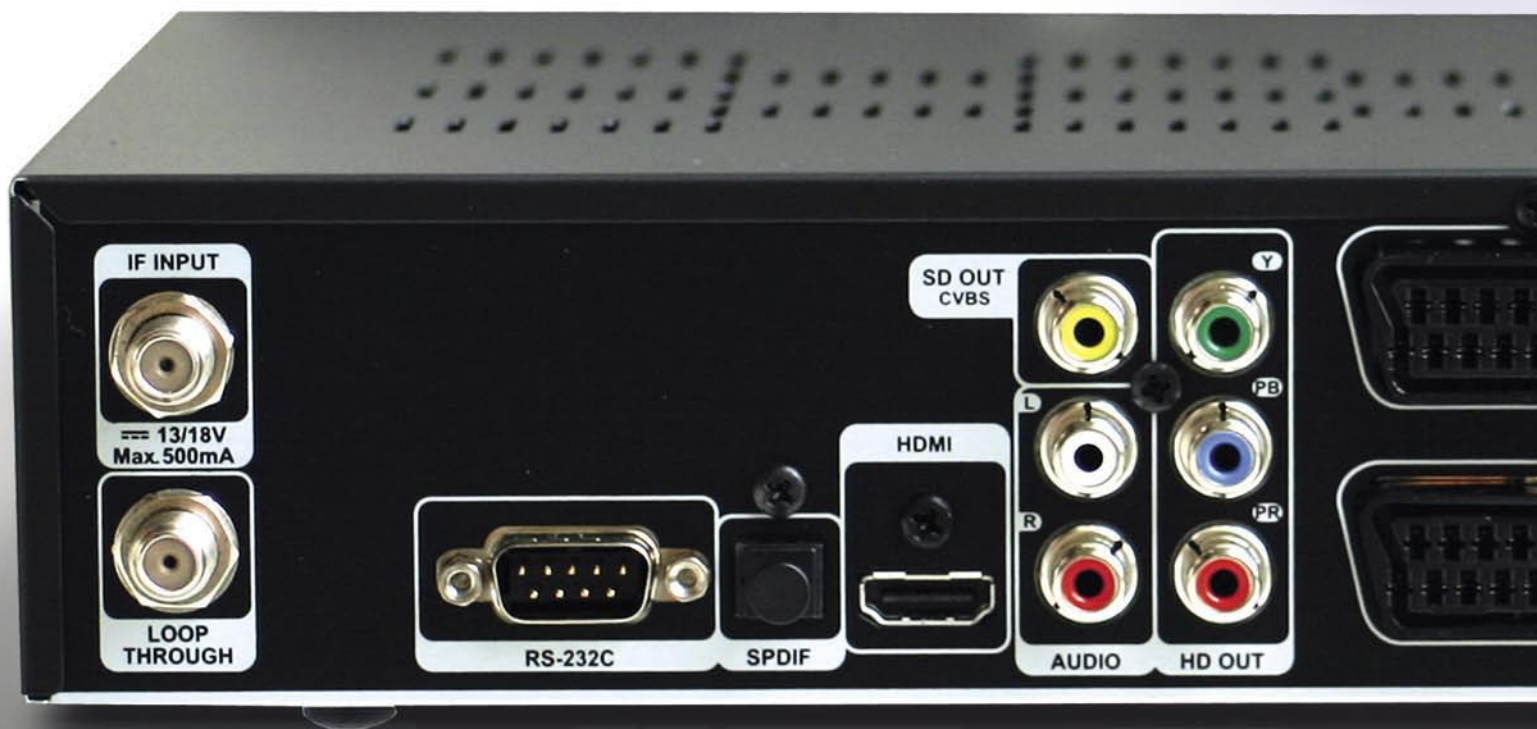
我们将目录建立完毕后,我们就可以看电视了,在这里可以看到,良好的设计有助于日常的收看。主要的频道目录可以按照字母顺序分类或过滤,也可以按照免费或加密状

态分类或过滤。而且也可以按照具体加密方式进行过滤,因为在实际使用中 - 也许会使用一个以上加密模块。

其实频道目录最重要的就是醒目,但却在设计接收机时常常被忽略。接收机会记得有哪些喜爱频道列表在使用、你曾过滤掉什么,直到你决定好选择一个新的频道。该接收机在基本使用功能上同我过去用过的接收机相比,要好得多。

要说有什么稍感不快的就是频道在喜爱频道目录里或过滤后,仍然保留着原来的序号。当然这也是它的一个优点,就是当你还记得它的序号的时候。我个人倒是认为这样会比较容易些,就是根据自己的选择赋予频道以有限的 1,2,3 序号,而不是它们最初的序号,特别是我用手来移动之后。但是,即使这样,它仍然比许多其他接收机的操作要容易些。

我最初稍微有点失望,因为它没有“回到上次观看的频道”按钮,因为它可以使我们在常看的两个频道之间迅速进行切换。但是 OPENSAT 会





让我们有一些小的惊喜，这在手册中没有提到。”向后”按钮通常用于使菜单返回到上一层。但是，当画面上没有菜单时按下它时，就会显示出刚刚看过八个频道的目录。虽然比不上从前的一键越过广告的功能，但这仍是一个很好的功能。

它也完全支持图文电视功能。在英国这里，由于图文电视的数字文本性能较差，因而用得越来越少。当我们的模拟信号传输结束时，模拟

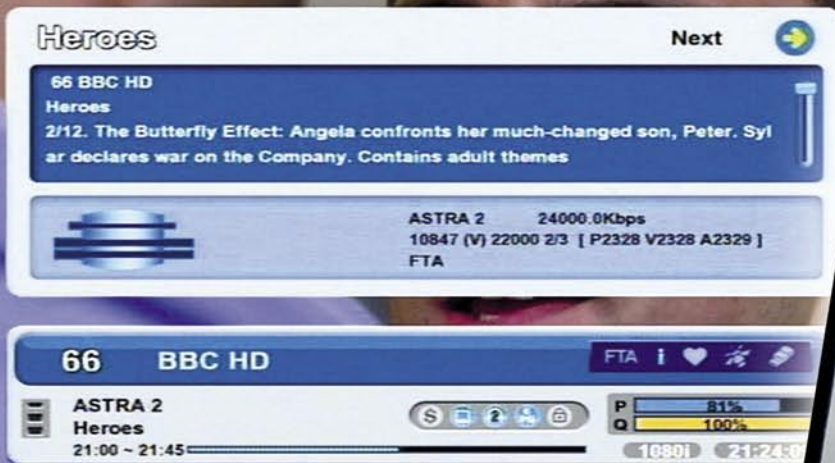
式的本文传输也就结束了。但是该机还是保留了这个功能，XT-9500 HD 高清接收机给了我们两个选择来收到图文电视，一是用接收机内部的解码器，二是用电视本身的解码功能显示输入的VBI。

XT-9500 HD 高清接收机的 EPG 也很清晰并易于使用，要知道通常的当前/下个节目数据传输是有局限性的。它有一些按钮可以实现向前追溯 24 小时的功能，

这样它也许会找到更多的节目信息，虽然我在测试中并没有找到什么。EPG 里可以设置接收机的定时器，睡眠和叫醒功能可以在预先设定时间的相应节目开始时启用。

### 概述

很快就忘记了它没有游戏等附加功能，总的来说，这款接收机的基本功能还是易于使用而且做得还



不错。菜单也富于逻辑性，屏幕显示非常清晰并可以帮助用户很好地使用。

遥控器也很出色——它与接收机的典雅黑色和亮丽银色搭配得相得益彰。也许算作接收机缺点的是，前面板的光亮若是能够调节或者关闭就更好了，这样用户在黑暗中观看电视节目时就不会分心了。

还有一件事物就是，我注意

到它的散热稍多，即使是在待机状态下也稍热。我想这就是我们获得高清图像质量所付出的成本。更新软件应该有助于解决这个问题。

稍感遗憾的是此刻没有更多的免费高清节目可以观看。但可以预见在不久的将来，我会很乐于将 XT-9500 HD 作为家里客厅中永久的陈设。

### 专家的结论



Andy Middleton  
TELE-satellite  
Test Center  
UK

+

出色的外观和契合直觉的菜单设计，安装和编辑较容易

优异的喜爱节目目录设置和频道过滤功能

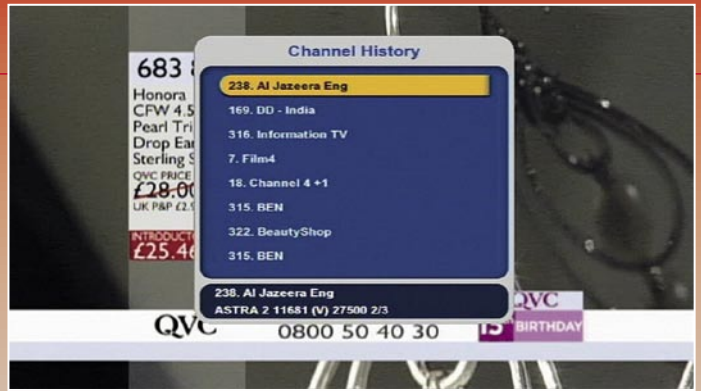
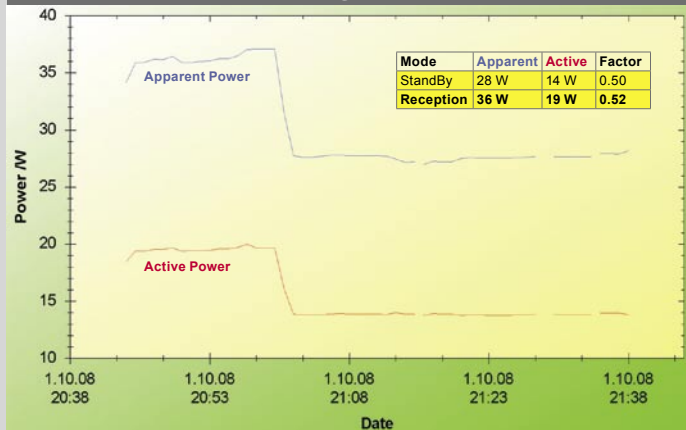
-

发热稍多  
前面板上总是发出光亮

## TECHNIC DATA

<b>Distributor</b>	ABC BIZNIS, Krušovská 4646, 955 01 Topoľčany, Slovakia
<b>Tel/Fax</b>	Tel +421 38 5313508 - Fax +421 38 5313508
<b>Contact</b>	info@abcbiznis.sk
<b>Websites</b>	www.abcbiznis.sk, www.opensat.sk
<b>Model</b>	XT-9500 HD
<b>Function</b>	Digital HDTV receiver for DVB-S and DVB-S2
<b>Satellites / CI + Card</b>	51+ / 2 Common Interfaces + 1 Smart Card Reader
<b>Modes</b>	MPEG-2 MP@ML, MPEG-4 Part 10/H.264
<b>SCPC compatible</b>	yes
<b>DiSEqC / USALS</b>	1.2 / yes
<b>Scart connectors</b>	2 / USB2.0 Connector for Software Upgrades
<b>Symbol rates</b>	1000-45000
<b>Audio outputs</b>	2 (L&R)
<b>Video outputs</b>	1x composite, Component, HDMI
<b>Video Resolutions</b>	480p, 480i, 576p, 576i, 720p, 1080i
<b>Digital audio output</b>	yes, S/PDIF
<b>RS-232 / EPG</b>	yes / yes
<b>C/Ku-band compatible</b>	yes
<b>Power supply</b>	100-250V AC, 50/60Hz

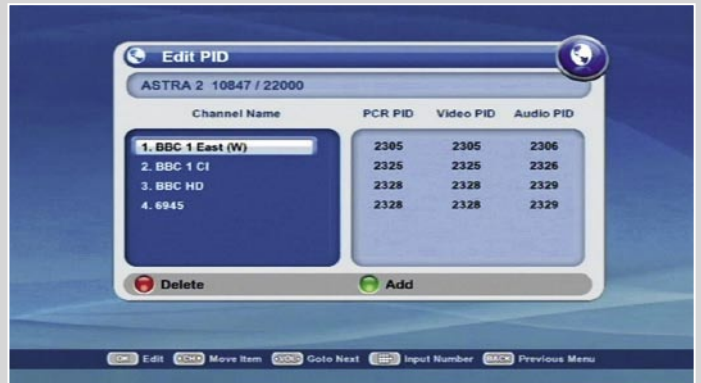
## ENERGY DIAGRAM



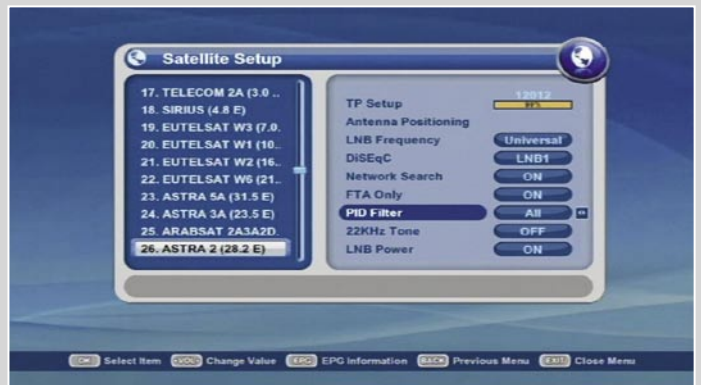
加密频道的历史界面 |



EPG |



PID 编辑器 |



卫星设置 |



用户的参数选择 |

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# TeVii 牌S650 型 DVB-S2 USB接收盒

据 S650 型接收盒的台湾制造厂商 TeVii 公司介绍,他们生产的S600型DVB-S USB接收盒功能有了进一步的扩展,现在也可以接收高清频道.(高清电视)了。

S650 型接收盒的金属外壳给人一种坚实的感觉,同时也显示出其高水平的制造工艺。它的后面板上是一个一进一出的卫星信号端口。外接的电源也从后面板接入,为接收机提供全部供电。

在侧面,我们可以看到一个USB接口,它可以用USB 2.0标准将接收盒连接到

基于Linux操作系统的个人计算机上。你可能会疑问,但事实上的确如此。TeVii公司也为它最近的产品提供一个 Linux 界面的驱动程序。有一个红外线LED装在面板里面,用来接收来自遥控器的控制指令,它在我们的测试中表现得很出色。

包装盒里包括S650型

USB接收盒、外接电源、USB 2.0 线缆、遥控器及其电池、简短的使用说明和一张装有所有必备软件和驱动程序的光盘,上面有PDF格式全面的使用手册。

## 日常使用

作为最低的系统要求,TeVii公司的新型USB接收盒要求电脑需配置有英特尔 Pentium 31 GHz或主频更高的CPU,至于要接收高清信号则需配置英特尔 Pentium 4 2 GHz 的CPU 以及128 M或 256M的内存,还有可以运行DirectX 9 或更高级软件的 16 M显卡。当然还需要一个USB 2.0 接口。基本上最新型的个人计算机都会符合这些要求。特别是MS Windows 2000、



XP 和Vista操作系统都能支持。同样支持也Linux 操作系统。 TeVii 公司为该接收盒赋予了广泛的软件应用范围,例如 TeVii 内部软件、通过卫星访问互联网的软件、SkyGrabber天空强盗软件(这个软件我们稍后将会再进行详细的讨论), 还有众所周知的、也是流行的,接收 DVB-S/2 的计算机软件ProgDVB。我们的Windows Visia个人计算机在接上TeVii 牌 S650 型接收盒之后马上就

识别出了它,并提示我们插入装有驱动程序的光盘。庆幸的是 TeVii公司不仅提供了 32 位的Windows应用驱动程序,也提供64 位的Windows Vista 应用驱动程序。这让我们确实感到意外,也使我们不得不佩服。真希望其他的制造厂家也和 TeVii 公司一样,将软件升级到 64 位的操作系统平台。

安装了必需的驱动程序之后,下一步我们推荐安装光

## TELE-satellite World

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| Dutch      | Nederlands | <a href="http://www.TELE-satellite.com/TELE-satellite-0901/ned/tevii.pdf">www.TELE-satellite.com/TELE-satellite-0901/ned/tevii.pdf</a> |
| Polish     | Polski     | <a href="http://www.TELE-satellite.com/TELE-satellite-0901/pol/tevii.pdf">www.TELE-satellite.com/TELE-satellite-0901/pol/tevii.pdf</a> |
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Available online starting from 28 November 2008



盘上的整个软件包。单独的程  
序安装过程基本上也是带有自  
说明的。因为没有预置频道，  
第一次使用 TeVii 软件的时候  
其窗口是空的，同时频道目录  
的内容也一样。TeVii 的用户界  
面结构清晰，明了易懂。我们  
在右边可以看到频道和卫星目  
录，而左边则显示电视频道画  
面，而且电视频道的窗口大小  
可以按照需要来调整，当然也  
可以全屏显示。TeVii 的菜单相  
当国际化，用户可以使用下列  
语言：英语、德语、法语、阿  
拉伯语、汉语、芬兰语、意大  
利语、波兰语、俄语、西班牙  
语和瑞典语。

TeVii 接收盒支持DiSEqC 1.0  
协议，可接驳4个 LNB ，同时  
它也支持DiSEqC 1.1 协议，  
就是说它可以接驳一面多焦天  
线。对于拥有电动极轴天线的  
用户，可以借助DiSEqC 1.2 和  
1.3. (USALS) USALS 协议，在  
TeVii 软件的菜单上非常方便  
地进行设定，从而能够完全控  
制并调整一个支持 1.3 协议的  
极轴天线。

TeVii 软件的内部结构选项  
允许的赋值范围非常大，例如，  
可以为每个卫星定义不通的 LOF  
参数。而Ku/C 波段LNB相应的  
各种极化方式也已经预置好。  
除此之外，也可以通过点击鼠  
标来改变 DiSEqC 的参数。

当根据与天线的匹配要求完  
成软件参数的配置后，下个步  
骤是实际进行频道搜索，并将  
巨大的频道记忆装满数据。而  
实际上它已经预置有 177 个欧  
洲、亚洲和美洲卫星位置的目  
录，相应的转发器数据都非常  
新。而即使这样参数也不可能  
是 100% 正确，需要到 www.  
SatcoDX.com 上查询并进行必  
要的更正。

显而易见，它可以通过点击  
鼠标很快地进行新的卫星或  
转发器数据编辑。如果你想要  
将 TeVii 接收盒的频道记忆  
装满，只需选择进入单个、几  
个或者全部卫星转发器，并刺  
活频道扫描功能。该软件用了  
不到

8分钟的时间完成了一个有超  
过100个转发器卫星的扫描，  
这比平均水平高一点点。

在我们测试 TeVii 接收盒  
的过程中，发现了一些明显的  
优点。一方面，它具有较低的  
接收门限，从而可以处理较弱  
的信号，例如，在我们测试位  
置的慕尼黑接收来自28.2 ° E  
的 ASTRA 2D卫星传输的弱信  
号。另一方面，它还可以非常  
好地接收带宽较窄的 SCPC 信  
号。例如在42 ° E上的TURKSAT  
卫星上，我们测试的转发器信  
号只有2000 KS/s多一点的符  
码率，它也都能完美地再现出  
来。

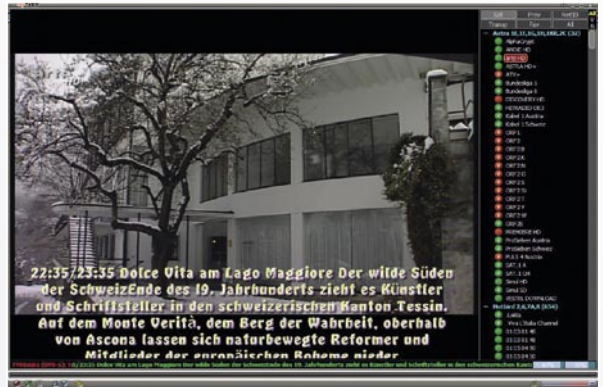
在接收状态中，TeVii 还可  
以设置成在相应窗口状态信息  
条中显示 EPG 数据，当然前提  
是频道提供这些数据。当然，  
它还具备一个完整的OSD系统，  
利用遥控器就可以完全操控接  
收盒。我们看到，当它快速换  
台时不但显示频道名字，而且  
还显示多种 EPG 数据，这样，  
可以更详细地显示作为选台参  
考的背景信息。这是一很棒  
的功能，我们非常喜欢！特别  
值得称道的是，它与标注得十  
分醒目并且使用起来非常便利  
的遥控器匹配得相得益彰。

频道目录是它的另外一个亮  
点，它提供了全部的分类和调  
整选项。举例来说，可以将频  
道按照转发器或卫星、还有喜  
爱的电视或广播频道进行分类，  
只要轻轻地按下遥控器上的按  
钮，就可方便地建立一些个喜  
爱节目的目录。频道目录可  
以在主窗口中直接进行编辑，  
有些可以通过卫星来自动更新。  
而对于一些特定的观众如孩子  
们，可以设置密码来重新命名  
或加锁。

对于 DVB-S/2 频道之间的  
切换，计算机用了大约三秒。  
在高清电视和标清电视频道  
之间的切换则稍微慢一点。接  
入计算机的DVB 接收盒的一  
个主要优点是硬盘录制功能，  
而且这也是 TeVii 的王牌之一。  
定时功能可以轻松地进行录  
制，时间的调整也很方便，就  
是说你可以



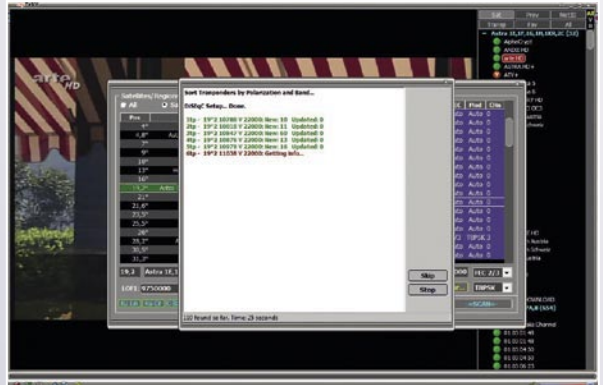
主窗口 |



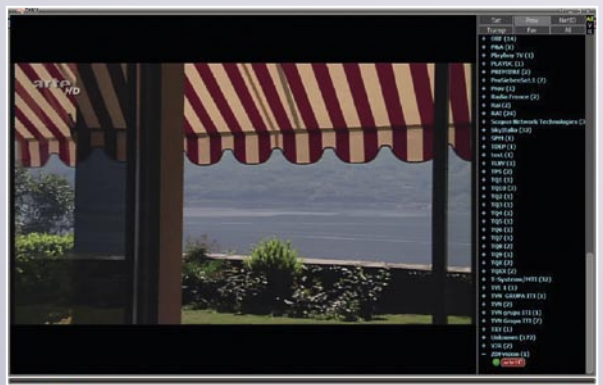
插入EPG |



卫星和转发器目录 |



频道搜索 |



按照节目供应商排列频道 |

# YOUR SAT-SPECIALIST FOR NOW AND THE FUTURE



## The new Generation "COMPACT LINE"

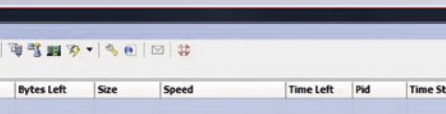
- Full product range available on all items
- Internal Professional rain cover
- Long neck for multifeed
- Best value for reliability
- 4.3° Monoblocks available
- **NEW!** Octo Circular LNB

随时按下按钮记录下现有的节目并随时重放。另外一个特别实用的功能是除了标准的传输流以外, TeVii 软件还可以录制所有与DVD格式兼容的节目。

内置的 EPG 制作得也很漂亮, 它用独特的方式显示所有的数据信息。不仅可以在 EPG 中直接对节目进行标记, 甚至可以对每日或每周要录制的节目进行定时, 只需确认节目的起始和终止时间即可。

形成对TeVii 软件的完美印象还在于它有一个插件接口。它允许软件开发者为其增加程序数据并加入新的有用的功能。我们在测试期间唯一真正的严重过错就在于没有使用 CI 模块接收付费电视。那么, 当这份报告出版的时候, 制造厂家该会向读者提供一个有USB接口的读卡器片吗?

### 图像表现和处理能力



我们测试的个人计算机配有一个英特尔Core2 双核1.8 GHz处理器, 能够完美地显示标清电视和 720p 或 1080i的高清电视图像, 并且没有耗尽系统的全部能力。就是说当你用TeVii收看卫星电视的时候还可以一心二用。以前用稍旧的英代尔Pentium 4 系统收看免费高清电视节目时, 开始时只能正常收看 720p的节目, 而 1080i 还不行, 但是制造厂家很快地作出反应, 就在我们测试期间发布了一个新的软件版本, 解决了这个问题。

### 附加的软件

虽然大都市都具有高速的互联网, 但是在一些偏远地区的情形还不是令人满意。由于距离太远, 在交换机和用户之间有的还没有网络电缆和DSL接入服务。在这种情况下, 通过卫星接入互联网可能就是最现实的选择。TeVii的S650 型接收盒则提供了相应的软件工具。安装软件就是安装一个网络驱动程序, 它允许设定和编辑所有的必需TCP/IP 协议参数。现在有足够的供应商可供选择该服务(有 27个供应商/卫星位置), 你也可以选择手动输入所有具体内容。然后软件会检查互联网通路, 以判断天线是否正确地对准卫星

天空强盗软件 SkyGrabber



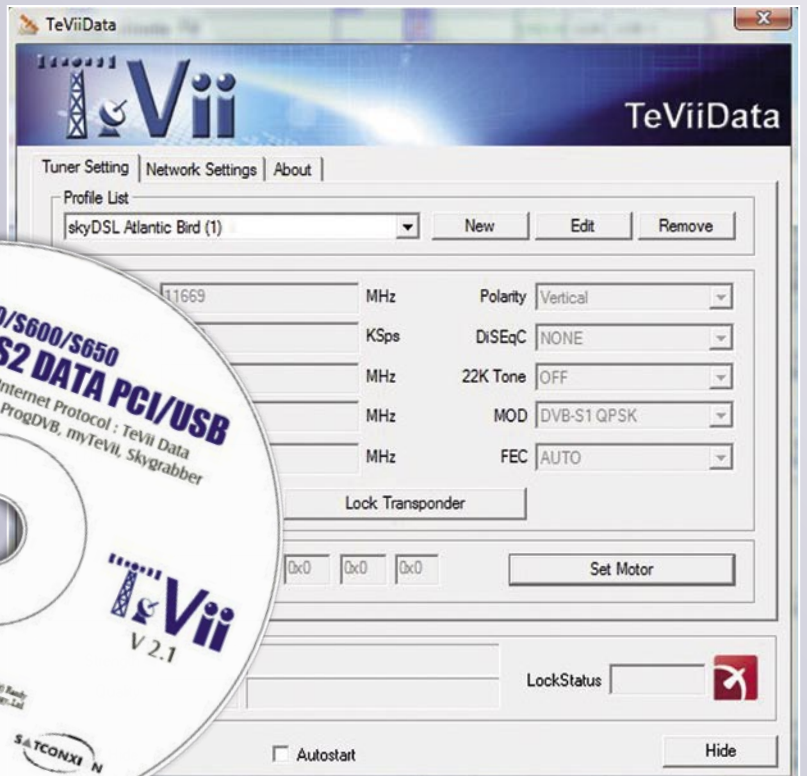
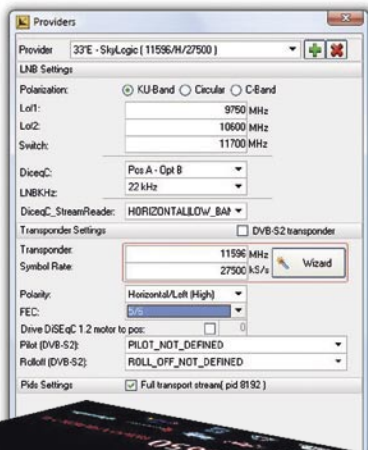
各种配置操作 |



LNB设置/DiSEqC 1.0 协议 |



定时器设置 |



TeVii数据





并激活服务。天空强盗示范软件也可以通过卫星接入互联网,它也可以接入地面的互联网。通过卫星接入互联网的服务并不是具体地只针对某一个使用者,而基本上是针对卫星场强覆盖区里面每个人的。从卫星收到数据后,天空强盗软件 SkyGrabber 就会进行过滤并试着将音乐、电影的数据片段拼凑成完整的文

件。但是请注意,保存第三方信息在某种情况下可能是违法的。

在结束前,我们还要告诉所有卫视爱好者:你还可以使用 TeVii 牌S650 接收盒借助 ProgDVB 软件的解码功能接收MEPG 4:2:2 格式信号,如在 7 °E的 EUTELSAT W3A卫星上的影像传送。

**SPAUN** multiswitches are provided with energy saving switched mode power supplies. Switched mode power supplies made by **SPAUN** feature a high effectiveness (low power consumption) with a wide range of tolerance regarding the input voltage.



Furthermore, the switched mode power supplies reduce the transport weight, save precious raw materials (lower copper content in comparison with transformers) and allow a standby function with a very low power consumption.



SCPC reception via TURKSAT 42° East

**专家的结论**

+

TeVii 牌S650 型是一款用于计算机的小巧的接收盒,即使不用最新的计算机,大多数操作系统都可以非常流畅地接收标清电视信号。附带的软件功能齐全,完全满足需要。我们用配有英特尔Core2 双核1.8 GHz处理器的计算机来进行测试,完美地实现了对标清和高清电视信号的处理



Thomas Haring  
TELE-satellite  
Test Center  
Austria

-

我们还想把CI模块接上TeVii 牌S650 型接收盒

**TECHNIC DATA**

<b>Manufacturer</b>	TeVii Technology Ltd. Taiwan
<b>Email Sales</b>	patricia@teyii.com
<b>Email Support</b>	peterson@teyii.com
<b>Model</b>	S650
<b>Function</b>	USB box for the reception of SDTV and HDTV, radio and data on the PC
<b>Channel memory</b>	unlimited
<b>Satellites</b>	177
<b>Symbolrates</b>	2-45 Ms/sec.
<b>SCPC compatible</b>	yes (approx. 2.2 MS/s and above in our test)
<b>USALS</b>	yes
<b>DiSEqC</b>	1.0, 1.1, 1.2, 1.3
<b>EPG</b>	yes
<b>C/Ku Band compatible</b>	yes



**ENERGY SAVING TECHNOLOGY**

# AB IPBox 900HD

## 功能强大而又极具潜质， 装有 Linux 等系统软件的高清电视 PVR 接收机

最近, ABCom 公司一系列异彩纷呈的 IPBoxes 接收机产品让我们着实感到了惊讶。这些装有 Linux 系统的接收机尤其符合那些热衷于动手测试的卫星爱好者的口味。同时, ABCom 公司还自己开发了适合所有家庭用户的软件。对于顶级的发烧友们来说,又多了一种软件选择。但是时间并没有停止,现在越来越多的人注意力被高清电视所吸引。客厅里摆上等离子或液晶电视机的家庭越来越多。当然,高清电视接收机也开始出现,但是卫星爱好者们对于早期的大部份产品还并不十分满意。在真正有实力的高清电视接收机赢得市场之前,还有一段路要走。

TELE **SATELLITE**  
**AWARD** & BROADBAND  
12-01/2009

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



而对于像 ABCom 这样一家具有生产 Linux 系统接收机的厂家来说,要走的路则更远。那么,会有一款接收机可以身兼数职吗? 它既可以接收



播放软件狗上的 MP3 文件

高清电视和标准电视,还可以兼容 DVB-S 和 DVB-S2 标准,还能在卫星、闭路、和开路电视信号之间快速切换。通过一个用户界面十分友好的 PVR,加上良好的网络连接,装有 Linux 系统的接收机还能为用户带来什么呢? 于是就有了生产 IPBox 9000HD 接收机兄弟版——900HD 接收机的想法,前者我们在以前的《国际卫星电视》杂志里作过介绍。本文将对此加以详尽的介绍。

7 个按钮的帮忙,即使没有遥控器,你也可以准确地找出菜单进行访问、改变频道、进行选择或调整音量等,所有的基本功能它都包括。

既然是 9000HD 的小兄弟,我们最初认为它不会给人太深刻的印象,然而此后当它被送到实验室被我们打开包装的那一刻,这一点就被证明是错误的。它看来比 9000HD 还要结实些,其外观设计也很气派,在前面板的中央是醒目的 VFD 矩阵显示窗。通过

左下边是电源开关按钮,右边磁性仓门后面,有两个 CI 插槽,用来接收加密节目。后面板则遍布插座接口。让我们打开电源开关吧。我们测试的接收机装有 DVB-S/ S2型调谐器,而且是一进一出型的,还有USB、RS-232 和网卡接口,一个欧插,三个音视频输出 RCA 插座,另外还有一个 YUV 视频输出接口。因为我们所讲的是高清电视接收机,所以它也不会少了 HDMI 插座。如果你特别在意声音的质量,

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English	English	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/eng/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/eng/abcom.pdf</a>
Spanish	Español	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/esp/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/esp/abcom.pdf</a>
Farsi	فارسی	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/far/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/far/abcom.pdf</a>
French	Français	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/fra/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/fra/abcom.pdf</a>
Greek	Ελληνικά	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/hel/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/hel/abcom.pdf</a>
Croatian	Hrvatski	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/hrv/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/hrv/abcom.pdf</a>
Italian	Italiano	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/ita/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/ita/abcom.pdf</a>
Hungarian	Magyar	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/mag/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/mag/abcom.pdf</a>
Mandarin	中文	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/man/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/man/abcom.pdf</a>
Dutch	Nederlands	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/ned/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/ned/abcom.pdf</a>
Polish	Polski	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/pol/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/pol/abcom.pdf</a>
Portuguese	Português	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/por/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/por/abcom.pdf</a>
Romanian	Românesc	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/rom/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/rom/abcom.pdf</a>
Russian	Русский	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/rus/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/rus/abcom.pdf</a>
Swedish	Svenska	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/sve/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/sve/abcom.pdf</a>
Turkish	Türkçe	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/tur/abcom.pdf">www.TELE-satellite.com/TELE-satellite-0901/tur/abcom.pdf</a>

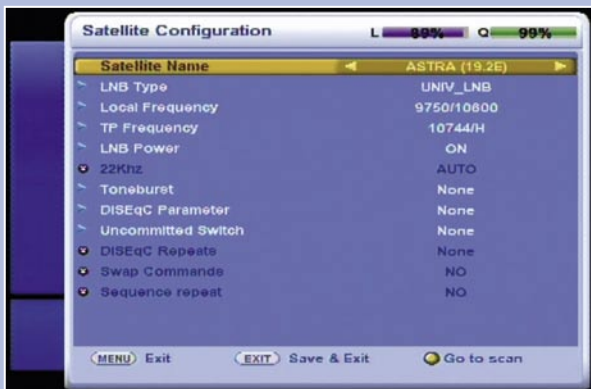
Available online starting from 28 November 2008



通过互联网更新软件 |



主菜单 |



卫星参数配置 |



DVB-S2 手动频道搜寻 |

习惯它们了。实际上，它们的安排很有逻辑性，“菜单”和“下一个”按钮和光标按钮分左右来进行调谐！在初始安装之后，你的手指就会跟着直觉找到它们在哪里。此时，自然就会想到一个问题，为什么从前人们不按照这样的逻辑来排布按钮呢？遥控器的按钮按照功能分区排布，如 PVR 控制区、频道目录编辑区，多媒体功能访问区，它还保留了早先的 AB Box 遥控器的好传统：就是你还能很容易地用它来控制你的电视机。在手册最后的 11 页上印有各种不同型号电视机的目录。

打开它的时候，应当肯定的是，即使你是第一次使用该机，借助于详尽的一步一步说明，也会顺利地使用，其每一个菜单项都有详细的解释。一些连接的变化也都解释得很清楚，也包括你接入开路电视或闭路电视的时候。全部频道都包括在频率图表之内，这样，你不必再去到处搜索了。

## 初始安装

当你将 IPBox 900HD 的电源插头插入家中电源插座的那一刻起，安装就已经开始了。首先是选择语言，包括选择屏幕菜单、音频、字幕和图文电视的语言。这里有许多选择 - 英语、俄语、法语、意大利语、荷兰语、德语、丹麦语、斯洛伐克语、捷克语、匈牙利语、挪威语、波兰语、葡萄牙语、西班牙语、瑞典语、希腊语、土耳其语、韩语、克罗埃西亚语、波士尼亚语和塞尔维亚语。

第二步是让你设定现在的日期和时间，并选择你是否需要它将来自动地切

入。最后，第三个屏幕界面使你接近了频道接收，对于一个卫星调谐器，在这里你要输入系统参数来接收你所期望的卫星。即使更复杂的系统设置也都不成问题，它支持所有 DiSEqC 协议：1.0、1.1、1.2 和 1.3(USALS)。还可以根据每个卫星的不同分别设置 LOF，即使是特殊国家的 LNB 也会正常工作。

当所有基本的卫星数据储存完毕后，按下黄色按钮就进入到频道搜寻菜单。这里，你两个选项：手动或自动搜寻。然后它会问你，你是否只想要 FTA，或仅搜寻加密节目，还是两者都要。如果你更喜欢网络搜寻，那这个频道目录就会收满好多节目。之后，只需按下“搜寻”按钮，就可以去冲一杯咖啡了。

搜索 19.2° E 的 ASTRA 卫星只用了 5 分钟，就搜到了 1092 个电视频道和 217 个广播电台。所以，如果你等不及要看屏幕上的节目，那最好就在附近别走远！

若要进行手动搜寻，你就需要进行各项操作，找到 DVB-S 和 DVB-S2 转发器，弄清调制方式 (QPSK 或 8PSK) 以及各种特殊的 FEC 值。通过一个特别的菜单，可以输入 PID 码，对于 IPBox 900HD 来说，接收 SCPC 信号没有任何问题，在接收 39.0° E 的 HELLAS 2 号卫星上 SR=1425 的卡拉布里亚频道时，只用一瞬间就锁定了！

屏幕菜单是按照一定逻辑来编排的，如果需要，你可以在两秒钟之内找到相应选项。举例来说，在 AV 设定界面，你可以选择宽高比、电视制式 (标清 PAL 和标清 NTSC, 720p-50 Hz, 720p-60Hz, 1080i-50

S/ PDIF 输出接口就会派上用场。至于 PVR 部份，我们看到这里有一个 SATA 硬盘接口，它可以为外接硬盘提供 5V 的供电。这也就是为什么我们称它“关心所有用户”了！

我们开始时对遥控器的印象并不好。当然，它也遍布按钮，但是它们其中的一些位置并不是在你所想的地方。但是测试开始后，我们就很快





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自动搜寻 |



HDD 硬盘设置 |



录制节目时的屏幕信息 |

Hz或 1080i-60 Hz), 以及 Dolby 音频的参数。

我们知道,并不是所有 AB 接收机的安装都是直接接到互联网上的。如果你要用到路由器, 只需用网线将 IPBox 900HD 连接到一个由你放置好的乙太网络上。对于 DHCP, 应该不厌其烦地认真设定所有的 IP 地址, 但是不管由于什么原因它不再工作时,还可以手动输入所有参数。如果你是直接连接到互联网, ADSL 的用户信息只需几秒就会登录上去。同时,通过登录 [www.abipbox.com](http://www.abipbox.com), 它可以进行软件升级。IPBox900HD 可以自动接入 FTP 服务器,由你从一些软件版本中进行选择。

如果你将接收机通过 RS-232 或 USB 接口连接到电脑上, 直接安装此前下载的最新软件, 那你就省去了很多麻烦。而且这样做是有道理的,例如,在最近的软件版本中,ABCCom 增加了支持你的 USB 软件狗里面 MP3 文件和图像功能的 FAT32 文件格式, 这样,你的 Windows 系统电脑就不必再繁琐地进行 nfs/ ext 格式文件的搜索、访问和存取了。虽然有时硬盘录制时还需要格式化, 但是对于 IPBox 900HD 来说可以轻松完成。

## 日常使用

当一次频道搜寻完成后,IPBox 900HD 马上会将存储的最后一个频道图像显示出来。只需按下“OK”按钮,就可以通过频道目录找到任何频道。它有点好像简约印象派艺术, 只需简单试试,你就会发现它相当具有特色。按下红色的按钮,就会出现不同的频道目录分类方式: 按照字母顺序、数据包、卫星、节目供应商和加密与否等。长条的 FAV 按钮用来显示喜爱频道目录, 通常缺省选项为五个: 运动、戏剧、新闻、电影和音乐, 而只要你希望生成一些新的种类选项,也能办到。增加频道则要通过特别的菜单, 总目录和喜爱频道选项会同时出现, 因为仅在主目录里给需要的频道打上标志还不够。回到频道目录本身,按下“i”按钮,就会让你执行删除、隐藏、锁定、重新命名或移动所选择的频道,而让我们尤其喜欢的是, 调整时它会记住音量。而从前这会令人烦恼,当在你不断地快速换台时,必须不断调整电视机或接收机来选择合适的音量,因为节目供应商们在这点上做得还不够, 频道之间的音量忽大忽小。而用 IPBox 900HD餐设置好以后,就永无烦恼了。

说到快速换台, 它并不算太快, 但也不令人生厌。根据频道的不同情况,间隔范围从 0.5 秒到 1.5 秒不等。不同转发器之间





EPG in List mode |



EPG - program details |



EPG in Program Guide mode |

的高清电视频道转换最费时间，而相同转发器里的标清频道之间的转换则毫无拖沓。当选择完频道后，IPBox 900HD就将其锁定，你就可以欣赏它提供的完美图像和声音了。但是当播送商业广告时，你就可以做些别的事情。请注意遥控器按钮顶端第三排的那些按钮。按下右边的按钮，就可以浏览相同转发器里的另外一个频道，它的活动影像会出现在右下方的一个小窗口里。用最左边的按钮可以将两个图像以同样的大小显示出来，而用左边第二个按钮可以移动屏幕周围比较小的图像，而用右边第二个按钮，你可以切换频道，即将子画面变成主画面，再按一下，则又切换回来。若要退出画中画模式，只要再次按下最左边的按钮。值得注意的是，除了用此方法收看同一转发器里的频道，还能同时录制第三个画面。

PVR 也许会稍稍让你失望。你认为只有一个“录制”按钮就没有别的了吗？根本不是这样的。除了通常的方法之外，你还可以选择通过 EPG 来进行录制，或手动输入录制的起始时间，或使用预览方法，先看一段节目，看看是否想录制，然后再决定录制与否。时间延迟功能也很有用，举例来说，你接到了一个重要的电话，但是又不想错过离开的片刻里想看的足球比赛。那么就按下“暂停”按

钮，当你讲完话的时候，你喜欢的足球运动员正在你离开的地方等候着你。至于其它的录制功能，你还可以很快地找到录制的节目，只需按下遥控器上的“信封”按钮即可。

EPG 可以在两种模式里找到：一是简化的“目录”模式，一是全面的“节目引导”模式。按下“EPG”一次或两次，就可以分别进入这两个模式。只要确定你在本地时间设定菜单里设定了正确的时间，你就能很容易地找出今晚的节目，如你喜爱的电影频道在星期六晚上会播放什么。“目录”模式实际上是列出即将播出的被选频道，若要了解有关它们的更多信息，只要按下“i”按钮。在“节目引导”模式下，也会显示周围的频道，你可以很容易地在节目、频道、日期及星期里来回选择，甚至还可以输入名称来寻找你感兴趣的节目。很方便吧，是不是？虽然可以显示出西里尔字母和其它的特殊字母，但是只能搜寻用拉丁字母标注的节目，不知何故，真是难以理解。

至于多媒体功能，我们已经提到了，在遥控器上有两个特别的按钮，清楚地标着“音乐”和“图像”。通过它们可以快速直接找到你的媒体文件，如在 USB 软





### 专家的结论

+

它可以接收高清电视和标清电视,是非常有希望的、功能强大的 Linux 系统接收机。由于装有相应的调谐器,可以接收卫星\闭路和开路电视。

我们测试的卫星调谐器门限很低。普通家庭用户操作容易。遥控器的设计合乎逻辑。支持 USB 软件狗的 FAT32 文件格式。可以为外接硬盘供电。可以在频道目录中调整平均的频道音量。具有在 EPG 中进行节目搜索的可能性。具有方便用户的时间延迟 PVR 功能



Nickolas Ovsyadovskiy  
TELE-satellite  
Test Center  
Hungary

-

900HD,与其大哥 9000HD 相比,只安装有一个调谐器,这对于一般的家庭来说不算大问题。但是,如果让它在内部具备安装硬盘的功能那就最好不过了,那样用户就可以把硬盘装入新的 900HD,从而立刻升级到 IPBox 250S 或 350S。

还有一个小问题,就是希望 900HD 的下一个升级版本不再忘记 DRE-加密 CI 模块,它在欧洲东部的一些国家用得很多。

## TECHNIC DATA

Manufacturer	ABCom s.r.o., Gogolova 1, 95501 Topolcany, Slovakia
Tel	+421-38-5362-611
Fax	+421-38-5322-027
Internet	www.abipbox.com info@abcom.sk
Model	IPBox 900HD
Function	Digital Linux-based HDTV PVR receiver for DVB-S, DVB-S2, DVB-C and DVB-T reception
Channel memory	10000
Symbol rate	1~45 Ms/sec.
SCPC	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
Scart1	
HDMI	yes
A/V output	3 x RCA
YUV output	3 x RCA
UHF output	no
S-Video output	no
0/12 Volt connection	no
Dig. Audio connection	yes
Ethernet port	yes
USB 2.0 port	yes
RS232 interface	yes
EPG	yes
C/Ku band compatible	yes
Power supply	110-245 VAC, 50/60 Hz
Dimension	300x60x240mm

件狗上、硬盘里或具体的网络位置上。MP3 播放器看起来很简单,但是性能还不错。前面提到过,最新版本的软件支持 FAT32 格式的 U 盘,所以你不必担心文件格式了。

将软件升级到最新版本以后,在我们测试早期出现的问题也都解决了。这清楚地表

明,ABCom 一直在改进其工作上。而最令人陶醉的是:它是一个装有 Linux 系统软件的接收机!另一种可选的软件方案已经亮开谜底。在其网站 www.abipbox.com 上就能看到首款测试版。所以,虽然它现在还是一个普通家用型接收机,但是我们可以预料到它的无限潜力。

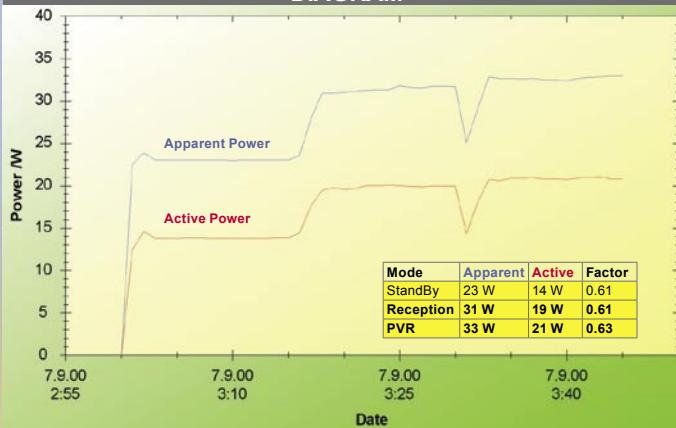


在目录中调整频道的音量



SR 只有 1425 的 SCPC 接收

## ENERGY DIAGRAM



开始时,接收机在待机状态中停留了 15 分,然后持续接收了 15 分,然后用 USB 连接到一个自带电源的 HDD 硬盘上开始录制 PVR 节目。



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# GT-SAT 系列高频头之 GT-TC40, GT-QDC40 和 GT-QTC40 与双调谐器高清接收机相匹配的出色的LNB

通常, 现在的接收机都有 2 个调谐器接口, 要充分发挥这种接收机的作用就要用到两个 LNB。如果家中不只一个接收机, 那你就要用到 quad 或 quattro 的四输出LNB。这样你就可以全面浏览节目并决定录制什么。另一方面, 越来越多的高清节目值得我们一看。它们通常采用 DVB-S2 的编码方式, 并用较高的纠错率, 因为它们与我们从前收看的标清电视相比, 信号的载噪比要求更高。要接收这样的信号, 我们必须要用更大的天线, 或更好 (低噪音更低) 的 LNB。

GT-SAT公司对我们的读者来说已经是非常熟悉的了。我们在2008年第9期的《国际卫星电视》杂志中介绍过他们的高输出功率LNB, 其产品具有良好的输出功率及噪声性能。所以我们也期盼着测试他们的新型系列 LNB。这次我们收到的是: GT-TC40、GT-QDC40 和



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- + Nanoxx 9400: same as 9200 but additional 2 Common Interface Slots

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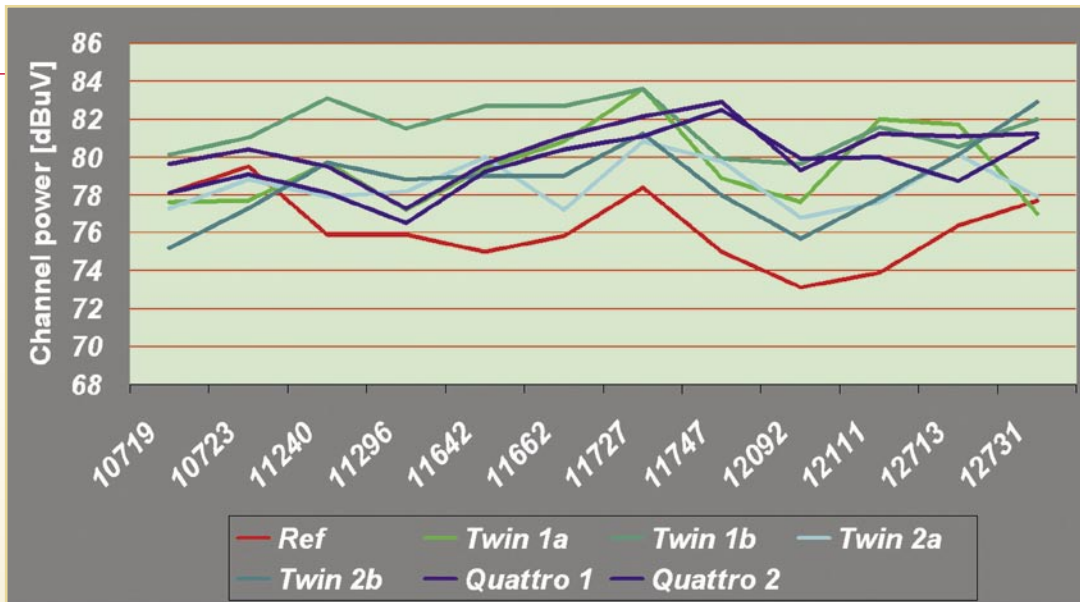
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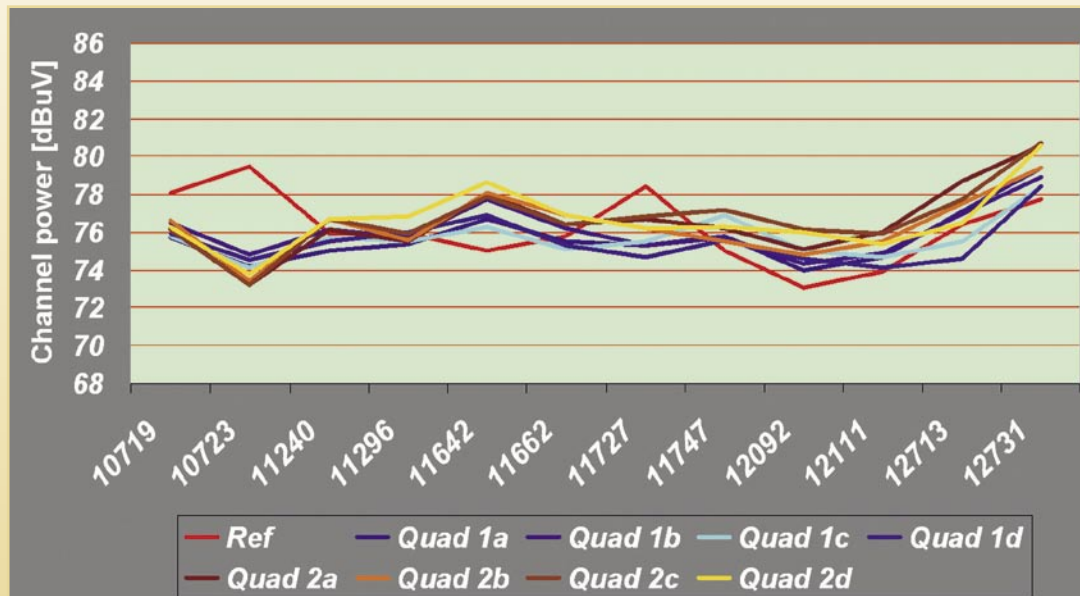


■ 双输出和 quattro 型的 LNB 的输出功率。

GT-QTC40。双输出和 quad、quattro 的 LNB。

它们给我们的第一印象是：较好的制作工艺和小巧的体积。对于双输出和 quad、quattro 的 LNB 来说，它们真是太小了。我们还特意照了一张照片，来比较手头这个 LNB 和以前介绍过的 LNB(GT-QD40D 和 GT-QDC40)。当然较大的那个输出功率更大些，但是和其他生产厂家的同类型产品比，GT-QDC40 要更小、更轻。

每种型号的 LNB 我们都收到两个，我们对它们全部进行了测量。虽然我们的工作量大了，但是这对于我们尊敬的读者来说测试结果会更加



■ Quad 型的 LNB 的输出功率。

可信。借助于大量的测试数据，你会见到很多图表。让我们对它们一一进行分析吧。

图1.显示的是双输出的 GT-QTC40 和 quattro 的 GT-QTC40 与参考 LNB(单输出，

0.2dB)的输出功率(信号强度)。可以看出，在 LNB和接收机之间，我们可以使用更长的同轴电缆而对于信号毫无影响。

图2.显示的是 quad 的 LNB 性能，虽然它与参考 LNB 相比并不更好，但也并不差，所以我们可以说，它的性能与参考 LNB 一样。

通常，我们对噪声性能更感兴趣。为什么呢？我们当中的

一些人可能非常需要强一些的信号(他们需要使用更长的电缆)，但是实际上，我们都



■ GT-QDC40 确实比其它 quad 型的 LNB 要小一些

  
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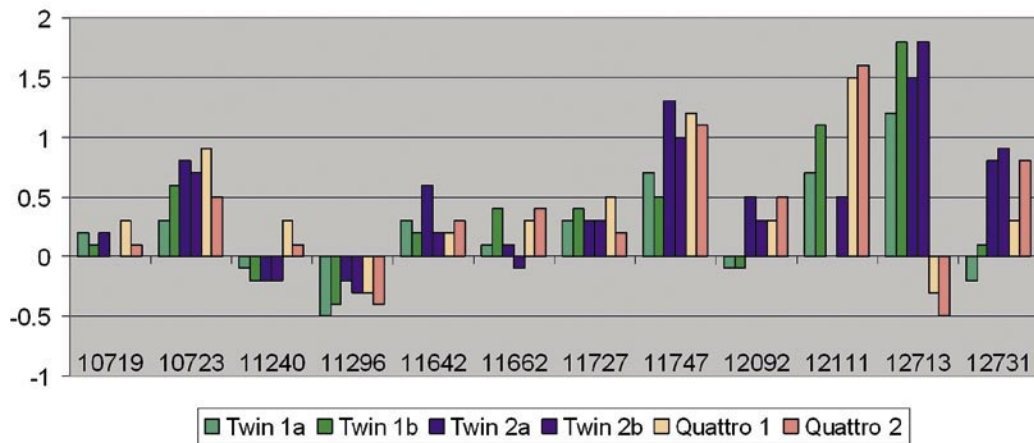
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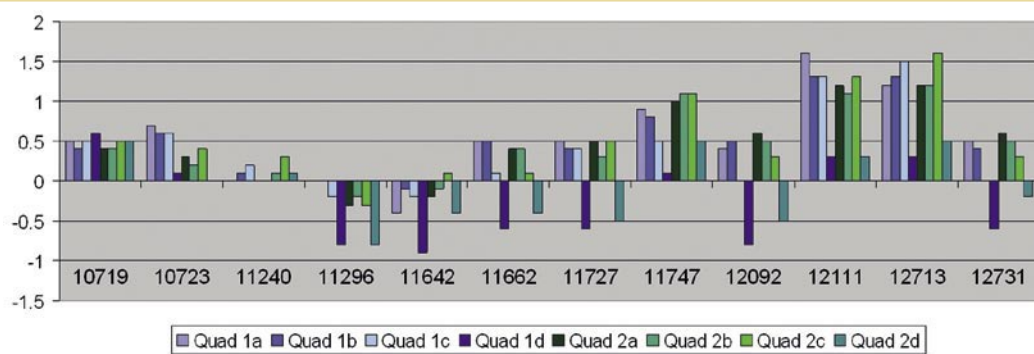
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■ 双输出和 quattro 型的 LNB 与参考 LNB MER 的比较。



■ 参考 LNB 与 quad 型 LNB MER 的比较。

需要低噪音更低的信号。更低的噪音就意味着可以接收到更弱的转发器信号，或者在恶劣的天气情况下有更多的接收余量。

现在，在图 3 里你可以看到，我们测试 quad 和 quattro 的 LNB 的情况。正线条表示调制误差率(MER)比参考 LNB 要好，负线条表示

要差。在我们选取的试验频率范围内，几乎全部 LNB 的测试结果都要比参考 LNB 要好！而且有的还要高出 1dB。正如你所看到的，在 Ku 波段

高端其性能尤为出色。原来我们曾估计 quad 型的性能可能要差些。但是出乎我们的意料，事实证明它们也很出色。你可以在图 4 里看到，Ku 波段高端附近的性能确实很不错。

这些型号的直流电消耗都很典型。双输出型的消耗为 150~170mA，quad 型的为：200~230mA，而 quattro 型的为：260~280mA。需要说明的是，接收机的电流输出至少都为 500mA。所有接收机对于任何 LNB 的供电都不成问题。

最后，我们选择接收一个较弱的转发器信号来看看其性能表现。我们用参考 LNB 接收 5° E 卫星上的 11670 MHz 频率，得到的 C/N=9dB。在换装双输出 LNB 之后，我们得到了相同的结果：9dB。无论我们测试 MER 还是 C/N，也无论是强或弱的转发器信号，所测试 LNB 的噪声性能都很出色！

### 专家的意见



Jacek Pawlowski  
TELE-satellite  
Test Center  
Poland

+

各种类型的 LNB 噪音性能都很优良，双输出、四输出 LNB 的输出功率也很强。产品尤其适用于新型双调谐器高清接收机。

-

没有

TECHNIC DATA	
Manufacturer/Distributor	GT Sat International s.a.r.l 16, Rue Millewee, L-7257 Helmsange-Walferdange, Luxembourg
E-mail	info@gt-sat.com
Telephone	+352-26432203
Fax	+352-26432204
Models	GT-TC40 (twin), GT-QDC40 (quad) and GT-QTC40 (quattro)
Description	Universal Ku-Band LNB's for Offset Dishes
Noise Figure	0.2 dB (typical)
LOF	9.750 and 10.600 GHz



Quattro outputs are described at the bottom ■

■ Sliding connector cover



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

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### THE HORIZON DIGITAL SATELLITE METER USB & USB PLUS



#### HDSM USB

- New graphics capable 128 x 64 pixel high brightness (adjustable) backlit LCD
- New Full Speed USB 2 interface with automatic driver download
- Full backwards compatibility with existing HDSM downloads
- New 3300 mAh battery pack offering in excess of 7 hours operation
- New nylon F connectors for maximum durability
- Faster processor with recall of last selection used
- New manual carrier configuration mode
- Twice the satellite setting capacity with 64 selections available
- Lock indication within 100ms of acquiring the satellite
- Custom program files available on request (e.g. VSAT)
- L-Band, C-Band, Ku-Band and Ka-Band capability
- Quality indicator (Pre BER) displayed alongside RF Level (dBuV)
- Pre and Post BER can be displayed with their actual values (setup option)
- Toggle to display Post BER and Carrier to Noise (dB)

- DiSEqC switch commands (available from sub menu)
- Symbol rates 2Msymb to 45Msymb
- Frequency range 950 to 2150MHz
- Input impedance 75 Ohms
- LNB Pass / Fail test function
- LNB short circuit protection
- Satellite cable integrity test
- Upgradeable firmware
- Intelligent internal AC charger 100 to 240 V AC
- Automatic fast and trickle charge modes
- 12 volt in car charger supplied
- USB lead supplied
- CE approved
- Compliant with EN 61326-1 : 2006 (EMC) and EN 61010-1 : 2001 (Electrical safety)
- Registered design
- Free product support via phone and email

#### HDSM USB PLUS (additional features)

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

#### HORIZON DIGITAL TERRESTRIAL METER (HDTM)



- Displays Signal Strength (RF level) with DVB-T indicator.
- Fast and accurate Pre BER readings in real time for easier antenna pointing using the built in CODFM indicator for quality of service.
- Can store up to 32 transmitter selections (via our web site downloads) a default of UHF 21 – 69 step through is preloaded.
- Built in intelligent universal mains charger 100 – 240V AC (CE approved) with V delta detection for fast and then trickle charging.
- Minimum run time of 5 hours with a full charge on the 2400 mAh NiMH battery.
- Computer interface: Serial Port (Com 1-4) for upgradeable software on transmitters.

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Polish	Polski	<a href="http://www.TELE-satellite.com/TELE-satellite-0901/pol/venus.pdf">www.TELE-satellite.com/TELE-satellite-0901/pol/venus.pdf</a>
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Available online starting from 28 November 2008



# 维那斯 马达

TELE  
**SATELLITE**  
**AWARD** & BROADBAND  
12-01/2009

**VENUS MOTOR**  
Sturdy motor for use  
with large dishes

大型的天线需要强有力的  
马达-在印尼用维那斯天线测  
试 Subur Semesta 的维那  
斯马达

很多大型卫星天线都是电动的,因为把  
这么个家伙仅仅用于单个卫星就太浪  
费了。将大天线安装上马达转动起来,就  
可以接收多个卫星的信号。事实上,很多  
卫星提供的 C 波段服务也不多,所以用  
电动天线是明智的选择。

维那斯牌卫星天线是由印尼制造厂商  
PT. Subur Semesta 公司生产的,《国际  
卫星电视及宽带》今年的第9期曾经做过  
介绍。现在该公司又专门提供了一款重型  
的马达。它用链条将马达齿轮和天线极  
轴连起来。该系统可以驱动较大的天线  
座,这种直接驱动的结构可以更好地抗  
风。毕竟在印尼经常会有暴风雨,这些马  
达必须经得住。

马达用四根电线与接收机的 36 伏天  
控器插座连接到一起,典型的有《国际卫  
星电视及宽带》今年第11期介绍的维那斯  
新千禧年 II-EP 型接收机。这种接收机  
可以对准多达 60 个卫星位置,对于一个  
大天线来说足够用了。

我们特别注意到了维那斯马达系统可  
以将天线做 180 度夹角的转动,比标准  
安装的范围还富余。

在我们测试的位置法国东南部的  
里昂,我们只测试了真正能用上的

Fully mounted motor with a VENUS ■  
dish, which also produced by PT. Subur  
Semesta.



■ PT. Subur Semesta 公司生产的马达。它用链条将马达齿轮和天线极轴连起来。





■ 借助一个具有磁性的水平尺,这也是PT. Subur Semesta 公司的产品,可以很容易地精确调准马达

130 度夹角,这就是说我们能够接收到从 302° E(58° W)的 INTELSAT 9 一直到 72 ° E 的 INTELSAT 4。全部过程马达用了 57 秒。对于 0.42 A 230 伏的供电水平来说是很低的了。



■ 维那斯马达被证明可以在赤道附近进行接收:照片上显示的是在印尼坤甸(西加里曼丹省)的 SatcoDX 自动接收站安装的维那斯马达。

专家的结论

+ 易于组装

- 没有使用说明, 需要具有极轴天线的安装经验



Sylvain Oscul  
TELE-satellite  
Test Center  
France



■ 用维那斯牌新千禧年 II-EP 型接收机将所有卫星位置存储下来。使用专业的测试仪器来进行精确的调整。



■ 印尼 SatcoDX 自动接收站的管理者文森特·徐伟俊和他的儿子站在维那斯极轴天线的后面。

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**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 USA
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

**ABCCom 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	ABCCom
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 HDPVR 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	● / ●



**TELE SATELLITE AWARD & BROADBAND**  
12-01/2008

**NANOXX 9400**  
Very fast low-threshold blind scan receiver – ideal for DXers

Manufacturer	NanoXX
Website	www.nanoxx.info
Function	Blind scan receiver with USB
DVB-S2/LAN	— / —
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2
S-Video/HDMI	— / —
Scart/Digital Audio	● / ●



**TELE SATELLITE AWARD & BROADBAND**  
12-01/2008

**INFOSAT ZIMPLE BOX 3**  
Fast and easy to use receiver for FTA reception with a very sensitive tuner

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



# 德国黑森州的“SMART”

当你手中拿着这本《国际卫星电视及宽带》杂志的时候，正是SMART公司刚要成立一年的时候。无疑这是一家非常年轻的公司，但是它引以自豪的是拥有自己的生产设备和专门的销售渠道。一个刚刚起步的企业为何能发展得这么快呢？当我们启程前往德国西南时所想的就是这个问题，那里是举世闻名的黑森州布谷鸟时钟的产地，那也是精湛工艺技术的代名词。

彼得·劳鲍（左）和克里斯多夫·豪夫勒（右），这家公司的两个常务董事站在公司的屋顶之上。克里斯多夫·豪夫勒从1988年开始就专注于卫星技术。在成为诺基亚公司的一个部门主管之前，就已经从广播和电视技术方面转而成为一家电器商店的销售主管。2005年，他成为维拉电子公司的销售负责人，随着SMART公司的成立，他又成为了常务董事。第二个常务董事彼得·劳鲍从1997年开始就在卫星部门工作。他也在电器商店工作，在2001年，他成为了产品经理。他们两个彼此非常了解，组成了自己的优秀团队。

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克里斯多夫·豪夫勒和彼得·劳鲍是这家公司的两个常务董事，他们对于目前蒸蒸日上的业务做了一个简短的介绍：2008年初，SMART电子公司从长期从事贸易的维拉电子公司分离出来。同时，SMART电子公司也接过了用第三方零部件组装卫星接收机的业务。顺便说一下，卫星接收机的组装只是其全部业务的一部分。“我们也提供 LNB、复合开关和极轴座，也就是说我们能为专业卫星器材经销商提供所有商品，”彼得·劳鲍介绍说。

克里斯多夫·豪夫勒接着对公司头一年业务的开展情况作了介绍。“我们预计第一年的销售收入大概有二千万欧元，而到 2009年再增长 10%。”所有卫星技术业务的员工都从维拉电子公司过来了。根据克里斯多夫·豪夫勒的介绍，“有30个员工从事接收机制造业务，15个人做销售，10个人做行政管理。”市场部已经成立，有4名经理。SMART公司还在扩张之中，这就是事实！

那么实际上发展目标是什么呢？彼得·劳鲍对销售工作做了概括：“销售额的 50% 将在德国产生，20%为东西欧，还有10% 在北非。”彼得·劳鲍预计2009年市场会有一些变化。“我们相信，销售额的 45% 还在德国，西欧占 15%，东欧占 25%，而北非将会上升到 15%。”

他对北非的销售十分乐观：“几个月前，我们在那里设立了一个办事处，这样可以很快地在那个区域向顾客供货，并减少维修的时间。”

SMART公司对于接收机生产很重视，两位常务董事都认为这是公司的核心业

务。克里斯多夫·豪夫勒说：“因为我们接收机的组装就在黑森州，对于欧洲和北非市场不必经过很长的渠道，所以我们对顾客的需求量能够做出快速的反应。”

克里斯多夫·豪夫勒列出一些例子：“我们使用销售地的语言印制使用手册并改编屏幕菜单语言。”而公司的信条就是“沟通、观察”。顾客从开始就对他们们的SMART接收机感到满意，而且也钟情于“黑森州的制造质量和实用性能”，这就是克里斯多夫·豪夫勒的介绍，这也符合公司的信条。

彼得·劳鲍几乎每月都去摩洛哥的销售处考察，他同时也在欧洲及非欧洲国家中增加销售商。“我们能够很快地做出反馈以使我们的接收机适应当地的需求，”他在快速地增加销售商。

虽然SMATE公司成立还不到一年，但已经开发了一些新的产品。其中的一些已经在《国际卫星电视及宽带》上介绍过。“我们正在推介一系列新型的、尺寸较小的 LNB，”彼得·劳鲍透露说。克里斯多夫·豪夫勒补充说“这些特别适合与于多焦天线。”其他的创新产品中有一款能耗超低的待机功耗只有一瓦的电



产品一瞥。在这里，装有高频头的元器件被分放在盒子里，彼得·劳鲍解释说：“这样，我们能够用一种基本型产品覆盖一些市场，再根据个别市场的需求增加相应的功能，并且保证质量。”在这里有三个系列的产品：带有CA、CI和USB功能和VFD显示的HD接收机、功能有限的基本型接收机，还有最近生产的基于Linux系统软件界面的接收机。



源组。至于大家关心的复合开关，彼得·劳鲍介绍说：“我们也将推出一款兼容Unicable的复合开关”，它将让使用者把多达8个兼容Unicable的接收机连接到复合LNB上。“这将会是未来的一件大事，”因为“使用Unicable，可以轻松地把一个接收机连接到另外一个上。”彼得·劳鲍热情地补充说。

说到可用性，克里斯多夫·豪夫勒介绍说：“我们将把接收机都装备上RAPS。”这就是说这些接收机可以一直保持更新，新的卫星频道会被自动加到频道目录上。“RAPS信号现在在ASTRA卫星

上传输着，但不久也会出现在HOTBIRD卫星上。”接收机会一直跟踪这些位置的信号而不用用户再自己更新了。

领略了两位常务董事的理想和热情，你就会相信SMART公司还会继续不断地创新。黑森州的这家公司将成为一个卫星制造技术和质量俱佳的生产厂家。

这是位于德国中部圣·葛根的  
SMART电子公司的大楼。



■ 每一个接收机都要进行逐个检验并打上系列号。 ■



■ 这批货是发往俄罗斯、意大利，还是什么地方呢？对于任何目的地的产品，SMART公司都是在仓库里装入使用手册。根据当地语言需要的手册和接收机一起进行最后的包装。



■ 库房一瞥。除了接收机之外，SMART也装有其它货品，如野营帐篷



■ 研究实验室：这里是顾客梦想成真的地方，新的软件在进行调试。



■ 克里斯多夫·杰克勒不仅认真负责技术文件，还负责包装设计。显示器上的SMART图标——就是他的杰作造之一。



■ 销售办公室：在这里，SMART公司与全世界保持者密切联系。



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# 美国制造的领先技术

亚历山大·维思



■ 劳娜·布瑞迪·克劳沃, SeaTel 股份有限公司的董事长

很清楚, 美国在卫星技术的某些领域处于尖端位置。其中之一就是多用于船只的电动双轨卫星跟纵天线。这个市场的领先水平就属于加州的 SeaTel 公司。



巴比·约翰是 TVRO 的产品经理, 他正站在北加州奥克兰和旧金山以东肯考德的 SeaTel 大楼前

劳娜·布瑞迪·克劳沃是 SeaTel 股份有限公司的董事长,她谈到 COMSYS 最近一份公布的研究报告表明,SeaTel 的市场占有率为 73%。SeaTel 股份有限公司属于 Cobhan Satcom 集团,它在北加州当地雇有 205 名员工。人力资源经理欧德瑞·安德森向我们认真加

以介绍:“113名员工从事生产, 12 做销售, 20 从事顾客服务, 39 从事技术开发(工程)和 21 做管理(管理、会计和信息)”。《国际卫星电视》(03/2008)最近所介绍的他们的欧洲分公司就是劳娜·布瑞迪·克劳沃在 1996 年创办的,称为 SeaTel 欧洲分公司,现

在由詹姆斯·波尔顿负责管理。最近还刚刚在新加坡开办了另外一家分公司,SeaTel 公司在美国的劳德尔堡也有一个办事处。

劳娜·布瑞迪·克劳沃对于事业上的成功感到非常满足:“它始终保持增长!”

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■ 开发部一瞥。苏珊·傅是他们的资深软件工程师，正在研究三轴控制。

网服务的，就需要同时安装四套系统。”游轮上的旅客现在变得越来越苛求”，巴比·约翰说道。他们不但想要看电视，而且还要在船上上网。

销售的前景非常好，SeaTel 也始终致力于开发新的产品。具有代表性的是 USAT24型接收系统。USAT 代表“小型缝隙天线”，而 24 表示它的尺寸，就是说

一个原因是美元的汇率及变化，这样在世界的其他地区我们制造的产品出货更多。”TVRO 生产经理巴比约翰，将他们的产品线加以说明：“我们的接收系统的 25% 用于电视信号的接收，而其余的 75% 则应用于数据服务业务，也就是互联网的上传和和下载。”劳娜·布瑞迪·克劳沃对于业务的发展感到非常乐观。

从地域上看，劳娜·布瑞迪·克劳沃认为亚洲市场最具增长潜力，她非常关注集装箱船和油轮市场：“他们想要在这些船舶上提供更多的娱乐及互联网接入，为使员工安心工作，他们向我们订购了越来越多的卫星接收系统。”

“非常有趣的是”，巴比·约翰补充说，有一种趋势就是要同时安装两个或四个天线。游轮一般不是只安装一个天线，还要有一个作备份。一些已经安装两个天线以接收两个不同卫星或接入互联



■ 约翰·拉侯麦迪在组装一款原型系统。

■ 质量控制对于 SeaTel 极其重要。克里斯·侯特是他们的质量保证检查员，正在使用高精度的测量机器检查安装完毕的天线



麦克·拉巴里是5个客户服务工程师之一。当顾客的系统出现问题的时候，他们打电话给 SeaTel，然后由工程师来解决问题。“我们能在太平洋时间 08:00~16:30 内赶到”。麦克·拉巴里解释说，“还有一项在午夜和周末可随时提供的服务。周日午夜之后，我们SeaTel 的欧洲同事就接过工作。”SeaTel保证了顾客每天都能联络上一个在位的人。“我们每个星期会接到 250 到 300个呼叫电话”，麦克·拉巴里说，“而且如果问题不能在电话机上解决，我们将会赶往当地。”

其直径为 24 英寸或 60 cm。“这个天线将会用于互联网接入”，工程副总监约翰·菲利浦解释说。这是海岸 24 型接收系统的一个改进版，一个 24英寸(60 cm)的电视天线。这两个天线用于向游艇的主人们提供电视和宽带互联网服务。

当本期《国际卫星电视》杂志付印时，第一套船用多星接收系统将会面市！这个电视接收产品是由巴比·约翰带头负责的项目。由于仅有方位角和仰角还不够，它采用了电机来很好地进行三轴定位，使 LNB 的相对位置保持不变以实现复杂的卫星接收。这对于SeaTel 的工程师们绝对是一项挑战性的设计任务。

SeaTel 完全掌控电动天线和卫星跟天线之间的市场机会。通过不断研制和生产新的产品，来不断开拓新的应用领域。

SeaTel 已经开始扩大此前没有引起足够重视的卫星接收业务。这就是典型的美国人：发现挑战就去战胜它！



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■ 仓库一瞥：小型天线罩在等候装配到天线上



■ 运输如此大的系统需要特别地测量。分解的部件被包装在固定尺寸的硬纸盒中。 罗伯特·麦克尼里是一名专门负责特殊运输任务的员工。

亨利·亚当是一名库存控制管理员，负责重要的库存核查。底座和较大的天线放在一起。亨利·亚当旁边的支架是直径为 2.0米天线所用的，而稍大的是3.6米天线用的。“我们的周转时间是大约一个星期”，亨利·亚当说道。SeaTel 已经采取即时供货的原则。他接着说：“实际上，底座是每两天送给我们一次。”调度员蓝·史密斯补充说，“对于较小的零件，比如螺丝和垫圈，则是一天两次进货。”这让 SeaTel 保持了最小的库存压力。这样做，不仅降了成本、提高了效率，还节省了空间。

▲新品面世：这种60cm的系统，可以接收5个卫星。



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## SeaTel新品 电动复合卫星接收系统

■ Brand new to the market: this 60cm system can receive five satellites.

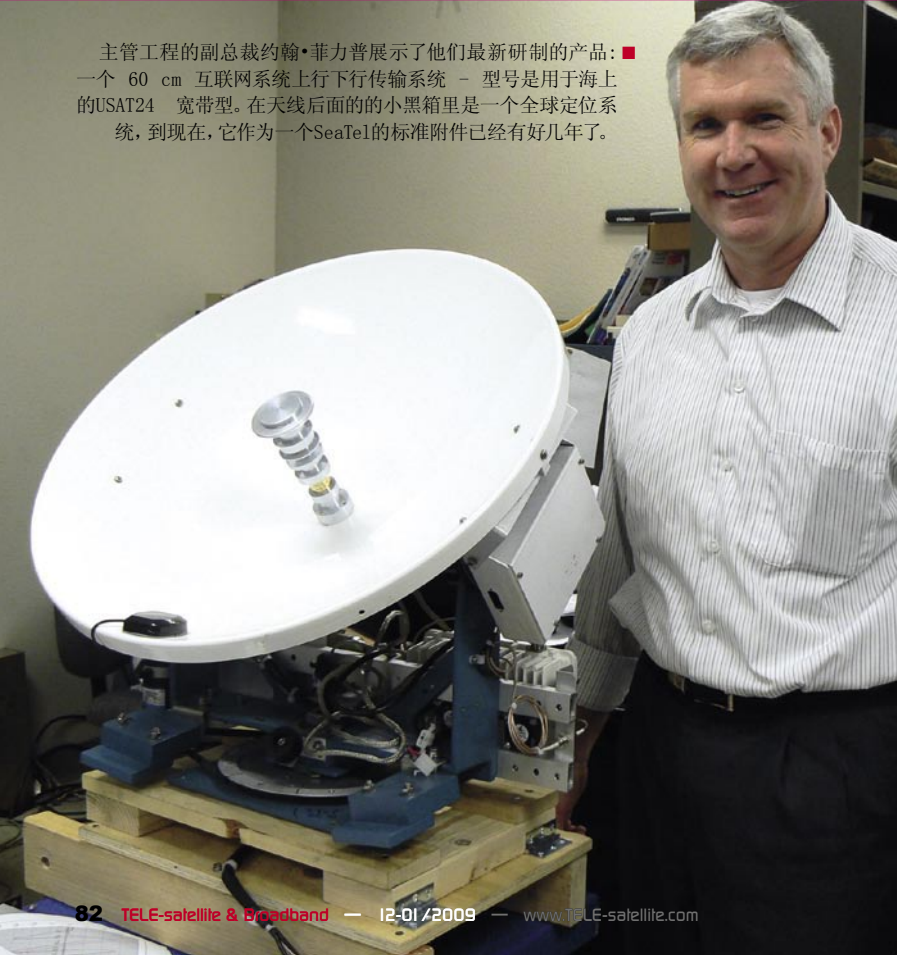


■ 是的，它可以接收5个卫星，虽然它看起来像只能接收3个：中央的馈源接收3个—中间的是 101°，边上的是 99° 和 103°。左边这两个馈源接受的是 110° 和 119°。这个系统产品的经理巴比·约翰，正在用 2° 偏角的一体化 LNB进行搜索。“这会提供解决更多接收问题的方法。”

对于《国际卫星电视及宽带》的那些富有更多经验的读者来说，这里我们看到的接收装置包括圆极化馈源和一个内建的复合开关。这也说明了为什么只有4个“F”头。



主管工程的副总裁约翰·菲力普展示了他们最新研制的产品：■ 一个 60 cm 互联网系统上行下行传输系统 - 型号是用于海上的USAT24 宽带型。在天线后面的的小黑箱里是一个全球定位系统，到现在，它作为一个SeaTel1的标准附件已经有好几年了。



## SeaTel新品 小型上下行传输系统



■ 这款小型天线完全由电动控制。左边较低的盒子是 BUC(滑块)，而右边的盒子是天线控制器。

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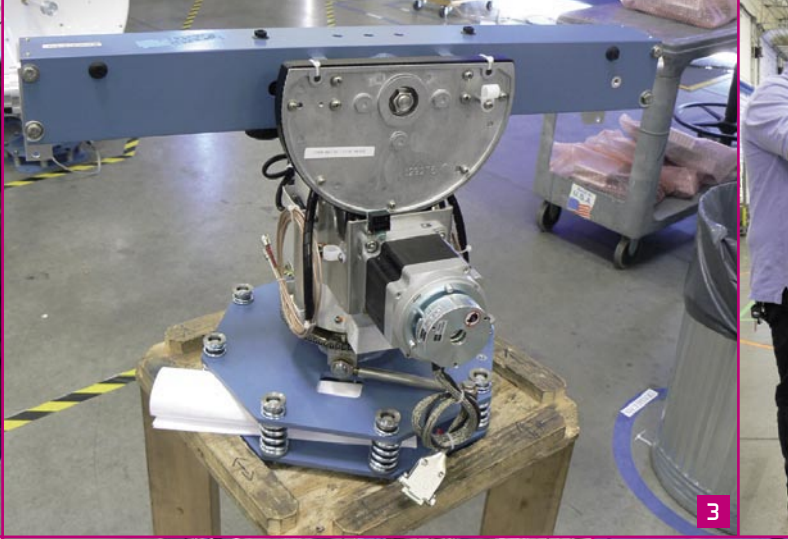
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4



5



6



7



11

■ Daniel Blair is Manufacturing Engineer and responsible for the individual assembly steps that ultimately lead to the finished product.



## How a maritime 3-Axis system is built

**Step 1:** The first step is handled by SeaTel employee Sandy Sneed: she puts together the base assembly, the heart of the rotating antenna system. An illustrated handbook helps her place assemble it correctly.

**Step 2:** Next the motors are installed; the resulting assembly is called the Canister. Diane Perno-Spiridonov is seen here at work. As with all production employees, she is wearing safety glasses.

**Step 3:** With the incorporation of the level beam the canister is finished and becomes the stabilization assembly. The basic assembly for a three-axis dish antenna system is thereby complete.

**Step 4:** Depending on dish size, a dish frame is installed. Eddie Estrada is seen at work here.

**Step 5:** The electronic components are installed at this point.

**Step 6:** Bobby Hughes installs the actual base stand.

**Step 7:** The dish is prepared. Jim Miller is seen here installing a feedhorn on a 2.4-meter offset reflector.

**Step 8:** The moment of truth! The dish is lowered onto the canister with a crane and both pieces are then connected together.

**Step 9:** Now the waveguide can be installed. This links the feedhorn to the electronics.

**Step 10:** Is the assembly complete? No, not yet. Jarvis Walker's work is only just beginning. He balances the antenna system with counterweights. The V-belts are all removed from the motors so that the antenna can swing freely. The antenna is placed in the horizontal position and should not drift to either side. If it does drift to one side, counterweights are added to the opposite side. A system like this with a 2.4-meter dish weighs roughly 200 kg (440

LBS) and thus needs to be perfectly balanced. Balancing the antenna is done manually after which the motor's V-belts are reinstalled so that further electronic fine adjustments can be performed. The small balance issues that might still be there can be found through differences in motor power usage in next step.

**Step 11:** The finished product is tested. Joaquin Sanchez fires up the motors and moves the antenna in every direction. If any balance problems are discovered, the necessary counterweights are then installed.

**Step 12:** Finished! The assembly is perfectly balanced and properly tested. Michael Flood tests how easy the dish can be moved.

**Step 13:** No, still not quite finished. At the customer site, the antenna is installed in a radome such as this one to provide weather protection. Here we see Ian J. Smith, SeaTel's Operations Coordinator.



■ A look in the production facility.

# 在法兰克福标志着双 X 的地方

## NANOXX

接收机生产厂家 NanoXX 公司的产品商标就是这个双 X。这个双 X 也在 MatriXX 公司的名字中出现。我们想要了解这个双 X 的秘密。在德国法兰克福北面的里德巴赫小镇，我们找到了马赛尔·豪夫保尔。他是 MatriXX 公司的创始人和董事长，他将一系列接收机命名为 NanoXX。实际上这两个突出的大写 X 真是一个聪明的名字。

马赛尔·豪夫保尔的起步就始于卫星界。他的父亲在八十年代末开始有卫星接收时经营过一个天线商店，马赛尔·豪夫保尔曾在那里帮助他的父亲安装天线系统。“我还记得第一个 LNB 的噪音系数是 2.4 分贝”，马赛尔回忆着当年的事情。

1994 年，他在一个天线批发商那里开始了一个分销经理的职业生涯。2003 年，当这家企业被出售的时候，马赛尔·豪夫保尔买下了它并开始了属于他自己的事业：“我的妻子帮助着我”，他回忆说，“和第三个人一起，我们创办了只有三名员工的 MatriXX 公司。那时我们一个成功的产品就是分销的 Dreambox 接收机。”

MatriXX 现在仍是一个兼有卫星安装业务的批发公司。但是，马赛尔·豪夫保尔也有困惑：他有了一些关于卫星接收机的想法。“但是没有一个供应商想要帮助我实现想法”，他解释说。他的供应商有其它的弱点：“我并不满足于顾客的支持，还想要

做得更好。”于是，他在 2006 年创立了自己的接收机品牌：“我在韩国发

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现一个生产厂家,它可以把我的想法变成现实。”除了加强售后支持以改进服务之外,马赛尔·豪夫保尔现在还能够根据顾客的反馈意见对产品进行改进,他还能够实现他在技术上的想法。

马赛尔·豪夫保尔特别对网络的兼容性感兴趣。“那就是未来!”他确信这一点。在他看来互联网要和接收机进行结合。“多媒体的世界即将到来”,他引证并预测,“我们正致力于生产带有网络摄像头的9500型高端接收机。”这后面的想法是什么呢?将网络摄像头作为一种安全手段。例如,你可以轻松地在室外安装上摄像头,而只需轻轻一按遥控器,其摄录的图像就会嵌入正在播出的电视节目里。“保安问题正在变得越

具有工学学士学位的马赛尔·豪夫保尔,是 MatriXX 公司的创始人和董事长,他创立了自己的接收机品牌 NanoXX。身后的地图描绘着 MatriXX 公司的合作者,“我们40%的顾客在德国,50%在欧洲其它地方,还有10%在欧洲以外”,马赛尔·豪夫保尔解释说,他很重视分销,“目前,有50%的销售来自于我们批发的产品,还有50%来自于 NanoXX 品牌。我们希望它以后会逐渐增加。”



MatriXX 公司的办公楼就位于法兰克福附近的里德巴赫。楼的前面是办公室,后面是仓库。现在公司有8名员工。





丹尼尔·萨姆是销售主管，他说：“我们的分销业务遍及瑞士、奥地利和英国，也面向欧洲的其他分销商。”现在有7种型号的接收机。主打产品是NanoXX 9500HD，最近的《国际卫星电视及宽带》作过介绍。再有新进展，《国际卫星电视及宽带》还会向您介绍。



后勤经理尼克·舒曼在仓库里忙碌着。“我不仅要组织运输，还要解决一些相应的技术问题”，他解释说，“对于大订单，我还要和员工一起发运，以最快的速度把产品送到顾客手中。”



即使最好的产品有时也会出现问题。但是不必担心，技术服务安德鲁·耐斯托会解决好每一个问题。







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■ 创造是一件好事，但需要被承认。马赛尔的妻子安娜·玛丽亚·豪夫保尔从公司开始创办就开始认真阅读这些书。

来越重要”，马赛尔·豪夫保尔解释说，“举例来说，在前门上安装一个摄像头对于用户来说是很有趣的一件事。” 马赛尔·豪夫保尔正在预想着在卫星接收机正常使用之外，再给用户附加的功能。

名字中的这两个 X 具有双重的含义：既有显而易见功能的含义，还有并不显眼但是又有附加功能的含义。真是非常聪明！



■ 销售助理吉塞拉·汉莉始终头戴耳机：“我可以时刻接听到来自世界各地的电话。”



■ 马赛尔·豪夫保尔深知他的出路就在于卫星接收。这是一年前他和父亲（左侧）一起呆在竖起的 C 波段天线旁边。

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# 3.65m Dish for 300 Euros

*Instead of buying a big satellite dish as a finished product, it is also possible in India to buy the antenna frame and a thick roll of wire mesh panels and assemble the dish yourself. That's exactly what Satheesan Puzhakkara from the SatcoDX Autoscan station in Thiruvananthapuram in southwestern India did when he added the newest dish to his antenna farm.*



These dishes are offered by a local provider and the installers have many years of experience mounting the wire mesh panels to the antenna frame. This type of antenna is not really good for Ku-band reception, the precision of the parabolic form is not what it should be, but it works very well for receiving C-band signals.

The greatest advantage of this type of construction is the ease in transportation; shipping a 3.65-meter antenna can be a logistical problem. But shipping an unassembled dish is much easier especially in areas where the network of roads still need to be modernized.

Satheesan Puzhakkara explains, "The dish alone costs about 235 Euros." Add to that the foundation for the mast, "this costs roughly 65 Euros", making the total cost about 300 Euros for a fully assembled 3.65-meter antenna.



■ The 3.65-meter (12-foot) antenna ready for delivery with the completed sections of the frame. The wire mesh panels are rolled up in a single roll.



■ The mast is installed into a concrete base.



■ The assembly begins: the sections of the frame are put together first.



■ After installation of the support straps, the parabolic form takes shape.



■ Now the wire mesh panels are screwed in place one after the other.

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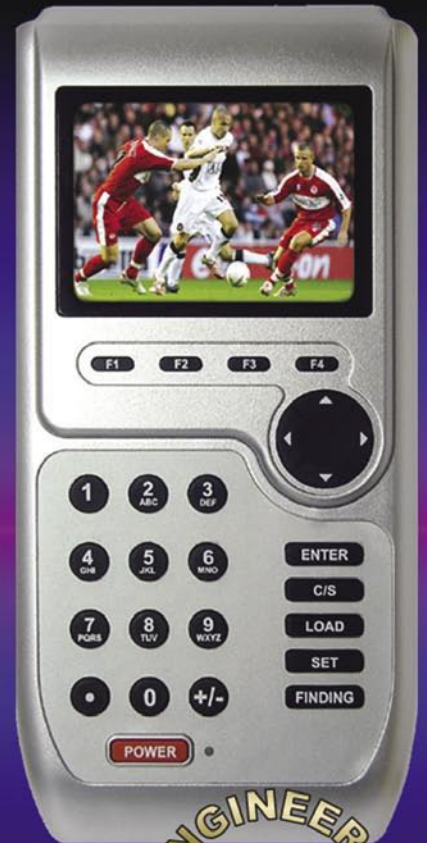
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■ The parabolic form takes shape automatically as the wire mesh panels are placed on the frame.



■ This is what one of the rolled out panels looks like before installation.



■ Finished! All of the panels have been installed.



■ The Az/EI mount of the dish.



■ After preparing the mast foundation and the installation of the feed arms and the LNB, the dish is ready to be put to work!



Now the fun really starts. The new dish is aligned with INSAT 2E, 3B, 4A at 83.0 east. The two LNBs to the right of the focal point are pointed to THAICOM 2,5 (78.5E) and TELSTAR 10 (76.5E). The first LNB to the left of the focal point is used to receive both ST 1 (88.0E) and CHINASTAR 1 (87.5E). The remaining LNBs are aligned to MEASAT 3 (91.5E), INSAT 3A, 4B (93.5E), EXPRESS AM 33 (96.5E) with the far left LNB pointed to ASIASEAT 2 (100.5E). All of these satellites are continuously scanned by AutoScan PCs; the results of these scans can be seen at any time in the SatcodX satellite charts: [www.satcodx3.com/0766](http://www.satcodx3.com/0766), [www.satcodx3.com/0786](http://www.satcodx3.com/0786), [www.satcodx3.com/0831](http://www.satcodx3.com/0831), [www.satcodx3.com/0880](http://www.satcodx3.com/0880), [www.satcodx3.com/0875](http://www.satcodx3.com/0875), [www.satcodx3.com/0916](http://www.satcodx3.com/0916), [www.satcodx3.com/0935](http://www.satcodx3.com/0935), [www.satcodx3.com/0965](http://www.satcodx3.com/0965) und [www.satcodx4.com/1005](http://www.satcodx4.com/1005).  
Now when you look at these scan, you will know what LNB and dish is used to provide this information.





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# US TV in Europe

Alexander Wiese

*One of the most frequently asked questions in Europe is: "Can you receive TV from the USA?"*

*The typical answer is, "No, the US satellites are below the horizon and even so don't have any beams pointed to Europe."*

*But, is this answer really correct?*

To find out the truth we paid a visit to Diego Fernando Sanchez Rosende in Tenerife. Tenerife geographically belongs to Africa but politically the Canary Islands, of which the largest is Tenerife, belong to Spain which is in Europe. Is it possible to receive US TV here?

Diego shows us a 1.8-meter dish that he bought used and told us, "About a year ago I discovered that I can receive the ECHOSTAR/RAINBOW satellites at 298.5° east

(61.5° west). I can receive the Dish Network promotional channel on 12.456 GHz." By the time we came to see this for ourselves, it became clear that Dish Network in the course of transitioning over to HDTV has not been transmitting any MPEG-2 signals from this transponder since August of 2008. "I can receive four transponders but all four of them are modulated in Turbo Code", explains Diego. This is a proprietary technology used by Dish Network.

How is it possible to receive US satellites in Tenerife? Diego has a theory: "We are located in an extreme westerly position, in other words, relatively close to the USA." The elevation of the dish that can receive ECHOSTAR is a comfortable 31°, not low on the horizon at all. Add to that Diego's location on Tenerife is at an altitude of 800m and plus there is very little industrial pollution on the island. "Tenerife has very little atmospheric attenuation", comments Diego. This may explain why he has such

a strong signal. His best reception is on the vertical beam in the high band. "These are the transponders I can receive with a continuously strong signal: 12.456 GHz, 12.486 GHz, 12.515 GHz and 12.546 GHz. These are most likely transponders from the east coast beam."

■ **Diego Fernando Sanchez Rosende on the roof of his home in the southwestern corner of the island of Tenerife giving the "thumbs up" sign: he can receive two American satellites! With the 3.1-meter prime focus dish to the left he receives AMAZONAS signals from South America and with the 1.8-meter offset dish to the right he receives ECHOSTAR/RAINBOW from North America. Other dishes on his roof include a 1.0-meter antenna for HOTBIRD and ASTRA 1 (on the back of the roof), another 1.8-meter dish for reception of NSS 806 at 319.5° east (40.5° west), as well as a 0.8-meter antenna in the foreground for HISPASAT at 330° east (30° west) plus one more 1.35-meter dish that Diego uses for tests such as C-band reception.**

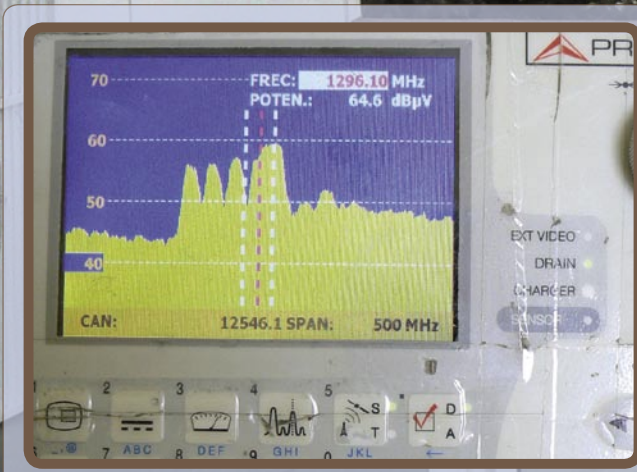
Diego shows us the spectrum of the ECHOSTAR satellite on his Promax signal analyzer: "This peak at 12.567 is particularly strong but ECHOSTAR is not responsible for this." The AMAZONAS bird at 299.0° east (61.0° west) transmits a data signal on a European beam. It's not hard at all to receive this transponder in Europe but Diego, who by now was extremely excited, wanted to know exactly what was going on. In addition to the 1.8-meter antenna, he also has a 3.1-meter prime focus dish. He turned his larger dish to this satellite position and was able to confirm, "Even here the spectrum shows a large number of transponders."

Unfortunately, the signal strength is not good enough to decode a TV signal. Diego contemplates, "If I were to erect a 5.0-meter antenna and point it to AMAZONAS I would then be able to get those signals with a receiver." Almost all of the channels on AMAZONAS are encoded; he would have to acquire a proper card from South America. "The best transponders to receive are in the low band and with horizontal polarization", Diego says as he provides a suggestion for other DXers. He dreams of the day when he can erect a 10-meter antenna: "That would let me easily receive both satellites!"

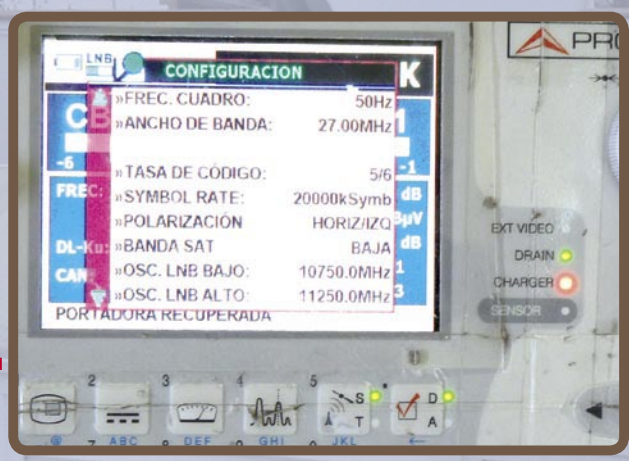
Our visit to Diego in Tenerife gave us these conclusions: with a proper receiver and activated card from Dish Network it would be possible to receive four HDTV transponders consistently and with sufficient signal strength. A larger diameter dish would produce more transponders.

For the AMAZONAS satellite, a larger dish would permit the reception of all the transponders. Diego recommends that other DXers living in Spain, Portugal, Great Britain, Ireland and western France should simply give it a try. If you already can receive INTELSAT 9 at 302° east (58° west), you're most of the way to ECHOSTAR. Keep in mind that ECHOSTAR transmits in circular polarization and AMAZONAS in linear polarization.

Of course, installing a large satellite antenna is not practical for everyone in Europe. For many a 1.8-meter dish is already stretching the limits and naturally it would help if your location doesn't have too much atmospheric attenuation. But then there's the other side of the coin: can satellite enthusiasts on the American east coast with larger dishes receive European satellites? TELE-satellite would love to hear from you!



■ The Promax spectrum analyzer shows the four ECHOSTAR transponders that Diego can receive with a consistently high signal level.



■ ECHOSTAR transmits with a symbolrate of 20000.

# Sonic Satellite Meter



■ Moslem Dayani developed the Sonic Satellite Finder and manufactured it as a prototype. Now he's looking for a manufacturer to convert his idea into a market-worthy product.

*There are many satellite meters available today but how many of them can tell you what satellite you are pointed to? Moslem Dayani from Iran thought about this and developed a small satellite meter that can do just that.*

Anyone who ever set up a satellite antenna is certainly familiar with this problem: is the dish really pointed to the right satellite? The display on the satellite meter shows a signal but could it be a different satellite that the dish was pointed to? Moslem Dayani explains, "To solve this problem I built a satellite finder with which you can hear the audio from one of the satellite channels."

Moslem Dayani simply modulated the audio output from the satellite receiver onto the coaxial cable from the LNB and with the proper alignment of the dish you will hear the audio from a previously set up channel in the receiver.

"You will only hear the channel's audio if you are aligned to the correct satellite", comments Moslem Dayani, "The Sonic Satellite Finder has two adjustments, one for volume and the other to match the level of the LNB." Some LNBS deliver only weak levels forcing an adjustment to the level so that the measurement unit has enough room to play with.

Moslem Dayani sees himself as an inventor and is not interested in manufacturing and distributing the Sonic Satellite finder himself. Anyone who is interested in marketing this kind of product should contact Moslem Dayani directly at

**moslem\_dayani@yahoo.com**



■ The developer of the Sonic Satellite Finder using the device to erect a satellite dish.



■ Connection of the Sonic Satellite Finder to a standard receiver.

The Sonic Satellite Finder in a small black box with connections for the audio output from the receiver and the coax cable for the receiver. The cable from the receiver is connected to the Sonic Satellite Finder. With a satellite dish the coax cable from the LNB is passed through the Sonic Satellite Finder. The installer can use headphones to determine if he found the correct satellite.

■

# „The pharmacist“



**Pieter Redelinghuys** lives in the small town of Klerksdorp, some 200 km southwest of Johannesburg in the North West Province and is one of the pioneers of satellite reception in South Africa. As early as in 1981 he was spending his free time building from scratch his first – no, not satellite antenna, but UHF antenna. Back at that time there was only the EKRAN satellite in the sky broadcasting Ostankino in the UHF range, the former Soviet Union's Channel One. TELE-satellite also reported on that bird in 1981, while Peter even to this day remembers its orbital position: "It was located at 99° East." A pharmacist by profession and the head of the pharmaceuticals supply at the local Klerksdorp public hospital until his retirement, Pieter finally decided to buy a 3.8 metre antenna in 1993, which he set up to receive signals from INTELSAT 1 at 27.5° West. Today this dish points to BADR at 26° East, above all to receive 'Dubai One', a channel broadcasting many new and recent TV series in English. Even though Pieter is a native speaker of Afrikaans he is not too fond of Dutch-language channel BVN, which he can of course also pick up. "Too much news," he criticises. Apart from his giant dish he also uses a smaller 1.8 metre antenna which is aligned towards BADR at 26° East as well but receives this position's Ku band signals, as well as three more 90 cm offset dishes pointed to TELSTAR 10, PAS 7 and PAS 10.

Pieter Redelinghuys is justifiably proud of his antennas, all of which he set up completely by himself. What he lacks in technical experience he makes up with his patient and meticulous manner.



In his shack Pieter demonstrates that everything works brilliantly, despite the chaos. The reception signal is transmitted right to his bedroom by way of a wireless transmitter, so that he can always stay hooked to his favourite channels such as CNN, Dubai One, National Geographic or Discovery Channel.

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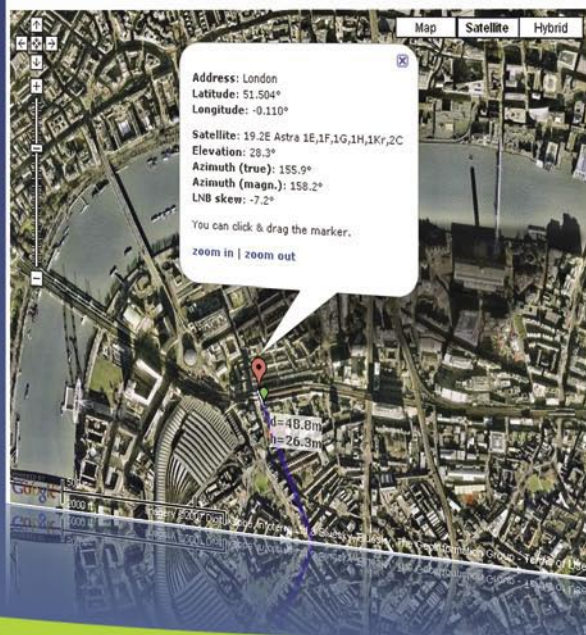
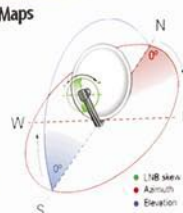
International location: e.g. streetname, postcode, geocode:

London

Popular Satellites:

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

All Satellites & Multi-LNB Setups: 19.2E Astra 1E,1F,1G,1H,1K,2C



## References



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[www.dishpointer.com](http://www.dishpointer.com)  
[info@dishpointer.com](mailto:info@dishpointer.com)

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Edited by  
**Branislav Pekic**

**EUROPE**

**EUROPE**

**VIASAT RECEIVES EUTELSAT KA-BAND CONTRACT**

ViaSat has received a US\$ 50 million contract award from Skylogix, the broadband subsidiary of Eutelsat Communications for on-ground baseband infrastructure for the previously announced high-capacity KA-SAT Ka-band satellite system. Under the contract, ViaSat will deliver and install broadband equipment for 10 KA-SAT gateways in Europe. The gateways will connect subscribers of Eutelsat Tooway satellite broadband service to the Internet. The ViaSat ground infrastructure will be available for the KA-SAT launch scheduled for the third quarter of 2010.

**RICHARDSON TO DISTRIBUTE AVAGO PRODUCTS**

Avago Technologies has selected Richardson to distribute its wireless products in the European market. Effective immediately, this is an expansion of Avago's existing distribution agreement with Richardson, which previously covered Southeast Asia, Japan, and the entire western hemisphere. Avago RF/microwave devices provide solutions for all base station, repeater, RF data terminal and handset designs. Benefits include small packages, superb power efficiency and industry-leading performance specifications. Avago products include RFICs, transistors, both Schottky and PIN diodes, and millimeter wave integrated circuits (MMICs).

**METRACOM AND DATHPATH PARTNER FOR NETWORK MANAGEMENT SYSTEM**

Satellite and wireless communications networks provider DataPath has formed a strategic partnership with French company Metracom to provide sales and integration support for the MaxView Network Management System in Europe. Metracom specializes in engineering and system integration, technical assistance, training and consulting services in support of satellite communications. The companies are targeting sales of the MaxView software product line to the European government, broadcast and satellite operator market segments. MaxView's customers can remotely monitor and control teleports, VSAT networks and TV head-ends.

**DENMARK**

**A. P. MOLLER – MAERSK SELECTS INMARSAT FLEETBROADBAND**

Global shipping company A.P. Moller - Maersk has signed a contract with Marlink for a large-scale retrofit of Inmarsat FleetBroadband across its Maersk Supply Service and Maersk Tankers Fleet. The two-year retrofit program is believed to be the largest in the history of maritime satellite communications, with over 150 vessels being converted to FleetBroadband in the first phase.

**GERMANY**

**SWR ORDERS SNG VEHICLE FROM NDSATCOM**

The German public broadcaster Südwestrundfunk (SWR) has ordered an SNG vehicle

(Satellite News Gathering) with satellite uplink and TV production technology from NDSatCom, an SES ASTRA company. The satellite uplink consists of a SkyRAY Compact 1500plus antenna subsystem and is HD/SD-ready. The satellite communications technology is operated by a complete NDSatCom Monitoring & Control System for SNG vehicles.

**ITALY**

**AVANTI SIGNS DISTRIBUTION DEAL WITH CO.NA**

Avanti Communications Group has signed a distribution agreement with CO.NA, Italy's largest consortium of VSAT suppliers and installers delivering services to residential and enterprise customers across Italy. The partnership will focus on pursuing rural broadband projects funded by the Italian Regions in an effort to address the below average broadband take up in Italy.

**ORBIT AND MILANO TELEPORT ORDER ORSAT SYSTEMS**

Orbit Orbit Technology Group, a provider in the field of advanced mobile SatCom and tracking antenna systems for marine, air, train and other ground application, and Milano Teleport announce an additional order for Orbit's OrSat systems, worth in excess of US\$ 1.6 million. This is an add-on order to an original contract of US\$ 1.9 million. Both companies have also signed a service agreement aimed at bolstering and streamlining on-location product support. According to the terms of this agreement, Milano Teleport will provide service and technical support as the Advanced Service Centre (ASC) of Orbit in Italy.

**POLAND**

**AVANTI SIGNS BROADBAND DISTRIBUTION DEAL WITH TTCOMM**

Satellite operator Avanti Communications Group Plc has signed a broadband distribution deal with Polish VSAT satellite communication company TTComm. No financial details were given. The company, which plans to launch its first satellite next year, said it now has broadband distributors in Scotland, England, Ireland, Spain, Italy, the Czech Republic, Albania, Serbia, Germany and now Poland. The company's first satellite, Hylas, is under construction and due for launch in 2009. Avanti expects the market for satellite broadband in Europe to be worth up to GBP 4 billion (US\$ 7.14 billion) per year by 2016.

**UNITED KINGDOM**

**VIASAT TO SUPPLY ACCELENET WAN TO BENTLEY WALKER**

ViaSat will supply its AcceleNet wide area network (WAN) optimization software for the LinkStar satellite networking system to Bentley Walker Telecom. The LinkStar satellite network is a data-grade, secure network, with a capacity to support voice over IP, VPNs, VLANs and other network protocols. AcceleNet WAN is a software-only solution for remote and mobile users and employs a unique combination of technologies. ICT says that nearly 1.5 million customers use the AcceleNet software globally. Bentley Walker Telecom provides broadband Internet and other services via satellite in Europe, the Middle East, Africa and South America. By deploying this software, Bentley Walker Telecom can increase the capacity of the bandwidth on its Star Nova S2 network and also offer a better user experience to its customers.

**TALIA LAUNCHES IP NETWORK WITH IDIRECT PRODUCTS**

Talia, a leading UK-based provider of satellite broadband services, has launched a next-generation broadband IP network built on iDirect's Evolution DVB-S2 product line with Adaptive Coding and Modulation (ACM). The network incorporates 500 Evolution X3 Satellite Remote Routers and represents the largest iDirect Evolution implementation spanning Europe, the Middle East and Africa. iDirect is a world leader in satellite-based IP communications technology. Capacity on T12 will provide services to Europe and the Middle East in Ku-band, while BADR-6 C-band services will cover the Middle East, North Africa and Sub-Saharan Africa.

**NORTH AMERICA**

**CANADA**

**TELESAT SIGNS CONTRACT WITH NEWWAVE BROADBAND**

Satellite operator Telesat has signed a contract with NewWave Broadband to provide the equivalent of three transponders on Telesat's soon-to-be launched Telstar 11N satellite. The new capacity will be key to further expansion of NewWave Broadband's ability to deliver broadband services to land-based, as well as aeronautical and maritime, markets worldwide. With over 500 vessels globally, NewWave now has one of the largest maritime VSAT networks in the world. In addition to its maritime resources, NewWave is also rolling out its first iDirect DVB-S2 platform to support land-based VSAT services. Launch of T11N is scheduled between December 2008 and February 2009.

**UNITED STATES**

**CAPROCK PROVIDES DISASTER RECOVERY COMMUNICATION PACKAGES**

Global satellite communications provider CapRock Communications deployed disaster recovery communication packages to clients with critical operations throughout the Gulf Coast area. During major storms, CapRock has deployed emergency packages to shore bases, corporate and regional offices and vessels, providing bandwidth from 256 Kbps up to multi-megabit. The VSAT packages are complete mobile communications solutions, providing true broadband Internet and voice services when traditional means are unavailable. Based on the market's response, CapRock continues to offer its DR-VSAT packages, which launched in 2006. The DR-VSAT program enables subscribing customers to reserve equipment upfront, guaranteeing equipment and service availability in the event of an emergency.

**EDUCATIONAL MEDIA FOUNDATION ORDERS TUNER CARDS FROM WEGENER**

California-based not-for-profit company, Educational Media Foundation, has ordered 600 DVB-S2 tuner cards from Wegener. The Educational Media Foundation has placed the order for upgrading their currently deployed Wegener Unity 4600 satellite receivers to the latest high efficiency satellite modulation. Currently, this not-for-profit company deploys Wegener Unity 4600 satellite receivers, iPump 6400 and iPump 6420 media servers for live and file-based radio broadcasts. Educational Media Foundation, which has been using a terrestrial connection to monitor Wegener satellite receivers and media players, intends to eliminate that terrestrial link by launching a VSAT low-data wide area network (WAN). Wegener said this network will be used for



# VSAT ANTENNA TVRO SYSTEM

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transmit and back haul operations between affiliates and Educational Media Foundation's central operation hub. The not-for-profit company is switching its entire satellite network to DVB-S2 modulation as part of that VSAT launch, and expects to achieve approximately 20-30 percent in operational cost savings. DVB-S2 modulation is a newer, standards-based, satellite modulation scheme offering significant performance gains over DVB-S modulation, according to Wegener's sources.

#### VIASAT GETS US\$ 7 MILLION ORDER FROM SPAWAR

ViaSat has been awarded an additional order valued at approximately US\$ 7 million for Multi-functional Information Distribution System or MIDS terminals by the Space and Naval Warfare Systems Command (SPAWAR). The order enhances the US\$ 52 million Lot 9 delivery order received by ViaSat as part of the MIDS annual Lot procurements. According to the company, the Lot 9 add-on comprises primarily of Low Volume Terminals or LVT(2)/LVT(11) ground-based terminals, along with LVT(1) airborne terminals. LVT is part of a tactical radio system used for data collection from various sources and displays an electronic overview of the battlefield using secure, high capacity, jam resistant, digital data and voice.

#### CAPROCK LAUNCHES MAP-BASED TRACKING SERVICE

CapRock Communications has launched the AssetTrax, its new map-based tracking service that monitors the position and movement of critical assets around the world. As a provider of satellite communications to remote and harsh environments, AssetTrax is the latest value-added solution clients can integrate seamlessly into their operations using CapRock's VSAT services. AssetTrax is ideal

for rig managers and fleet operators needing the capability to view real-time locations and historical paths of critical assets, such as drilling rigs and maritime vessels, including supply boats, tankers, cargo ships and construction and repair vessels.

#### WAVESTREAM ORDERS MATCHBOX AMPLIFIERS FROM TCS

Wavestream Corporation, a manufacturer of compact, highly efficient solid-state power amplifiers, has received initial orders for its Ku-band and Ka-band Matchbox Block Upconverters (BUCs) from TeleCommunication Systems, Inc.(TCS). Wavestream's Matchbox BUCs will be integrated into TCS' SwiftLink product line for its U.S. Army Program, and include 40W Ku-band and 12W Ka-band Matchbox solid-state power amplifiers, which lead the industry in compactness and efficiency. TCS' SwiftLink VSAT will provide multimedia communications capabilities to convey encrypted voice, video and imagery data. The U.S. Army is acquiring TCS' VSATs through the \$5 billion World-Wide Satellite Systems (WWSS) contract vehicle, which is available to support all federal communications missions, including disaster relief and homeland security efforts.

#### TCS GETS US\$ 23.4 MILLION OF SATELLITE SOLUTIONS UNDER SNAP PROGRAM

Wireless communications provider TCS received a US\$ 23.4 million follow-on order for deployable satellite solutions under its Secure Internet Protocol Router (SIPR) and Non-secure Internet Protocol Router (NIPR) Access Point (SNAP) VSAT Satellite Systems Program. This U.S. Army Communications-Electronics Life Cycle Management Command (CECOM LCMC) Program has a potential value of US\$ 246 million over the next 39 months if fully funded. Following the July 2008

US\$ 2.6 million order for initial shipments, the U.S. Army CECOM LCMC has now procured with this US\$ 23.4 million order, an additional 122 satellite systems from TCS' highly reliable SwiftLink deployable communications product line.

#### VIASAT RECEIVES APPROVAL FOR TERMINAL

ViaSat received Inmarsat Case Approval for the ViaSat VRT-100 Broadband Global Area Network (BGAN) terminal, which can be invaluable to first responders of civil emergencies such as fire, police homeland security, relief agencies, and news media personnel. The ViaSat VRT-100 enables one to quickly set up reliable communications even in the midst of extreme weather conditions. With Case Approval, the VRT-100 can be used throughout the Inmarsat BGAN network. The VRT-100 part of the family of Inmarsat terminals is a ruggedized BGAN terminal for operation, deployment, and transport in extreme conditions.

#### SPACENET TEAMS UP WITH GLOBECOMM FOR SATELLITE SERVICES

Satellite networking services provider Spacenet has teamed with Globecom Services to support its expansion of services to Europe, the Middle East, and Africa. Spacenet will offer both custom and pre-packaged satellite solutions for voice, video, and data communications exclusively for US based enterprise and government organizations with overseas operations. Globecom will provide high security co-location facilities and international logistics including installation and field maintenance. Spacenet will design and manage the international services network, as well as provide 24 x 7 customer support. The new international satellite services, provided by Spacenet and Globecom, help to solve not

only the logistical challenges of communicating with overseas operations, but many of the quality and security concerns as well. Remote satellite (VSAT) terminals are linked to geosynchronous satellites that are connected to a secure teleport just outside of Washington D.C. Critical customer data never has to land in foreign facilities or traverse uncertain local infrastructures. All sites can be connected directly to US telecom networks including the Internet and public switched telephone network (PSTN). International locations can also be connected directly to private networks or handed-off to certified gateways for access to high security government environments. The core satellite network infrastructure is based on Spacenet's field proven SkyEdge VSAT system and will be managed through its 24 x 7 Network Operations Centers in Atlanta, Georgia and McLean, Virginia.

**NORSAT AWARDED DEPARTMENT OF DEFENSE CONTRACTS**

Norsat International has signed satellite system contracts, totalling about \$1.2 million, with the U.S. Department of Defense (DoD). The contracts are expected to be fulfilled in the company's fourth quarter. As per the terms of the agreement, Norsat will sell Navisystem's marine satellite terminals under the Norsat brand in North America, and Navisystem will act as a non-exclusive reseller of Norsat's satellite systems in Europe, the Middle East and Asia. In addition, the two companies will explore opportunities for joint development projects, working to leverage each company's respective technology expertise to introduce a suite of marine satellite terminals that meet the varying needs of government and commercial maritime markets worldwide.

**LATIN AMERICA**

**COSTA RICA**

**ICE DEPLOYS GILAT SKYEDGE BROADBAND SATELLITE NETWORK**

Gilat Satellite Networks has been selected by Costa Rica's national telecommunications operator Instituto Costarricense de Electricidad (ICE), to provide a Gilat SkyEdge broadband satellite communications network that will serve end users throughout Costa Rica. ICE will use the new VSAT network to expand its programs to provide toll-quality telephony to rural citizens, meeting its Universal Service Obligations. The network will also provide satellite backhaul for wireless Internet access to those citizens. Using this mix enables the service provider to benefit from the advantages of each technology -- satellite's nationwide reach and wireless' cost-effective, "last mile" access.

**HONDURAS**

**GILAT DEPLOYS SKYEDGE BROADBAND SATELLITE NETWORK**

Gilat Satellite Networks has completed deployment of a SkyEdge broadband satellite network for Administradora de Redes (Aduanett), a private company owned by Honduras' leading customs brokers. Administradora de Redes will use the VSAT network to provide customs offices and other Honduran businesses with private networking services including interactive data, broadband Internet access, and Voice over Internet Protocol (VoIP). Gilat's SkyEdge is a satellite communications system that delivers high-quality voice, broadband data and video services over a powerful unified system.

**MEXICO**

**CONDUX AWARDS CONTRACT TO CAPROCK**

CapRock Communications, a global provider of satellite communications to remote and harsh environments, has signed a three-year agreement with Condux S.A. de C.V. to deliver VSAT communication services onboard its fleet of construction vessels. Condux, a leading offshore construction services company and subsidiary of Mexican-based Grupo Protexa, has chosen CapRock's services to provide its clients with reliable communications to support daily offshore operations. CapRock will deploy a seamless turnkey solution that includes equipment, service, maintenance and support for a fixed monthly price. The solution represents Condux' initial adoption of an always-on communication service.

**ASIA & PACIFIC**

**3DI TECHNOLOGIES IMPLMENT IDIRECT ACCELERATOR**

3Di Technologies, a provider of VSAT systems and Enterprise Internet Telephony services, has implemented more than 20 iDirect SkyCelerator Network Accelerators on a secure U.S. Government Type 1 communications system in Southwest Asia. iGT is a world leader in satellite-based IP communications technology to military and government organizations. iDirect Government Technologies (iGT) is a wholly owned subsidiary of VT iDirect and a provider of satellite-based IP communications technology to military and government organizations. The SkyCelerator suite of products from iDirect is an ideal solution for government



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and similar enterprises that require highly secure networks to handle advanced encryption or VPN solutions without compromising TCP performance.

### AFGHANISTAN

#### TS2 SATELLITE COMPLETES SATELLITE PROJECT FOR US ARMY

TS2 Satellite Technologies has completed the tender documentation for JCC-I/A and a satellite network project for the Marines bases in Afghanistan. The government contract concerns establishing and maintaining full communications in new locations for all soldiers stationed there during next two years. The USA is going to transfer 4.500 Marines from Iraq to Afghanistan as early as at the beginning of 2009. TS2 specializes in providing global satellite communication services in areas with poor telecommunications infrastructure. TS2 communication among the bases is possible thanks to the simultaneous lease of bands on the Intelsat 10-02, Intelsat 901 and ArabSat Badr-4 satellites and it additionally equips its customers with Thuraya and Iridium satellite telephones, which are often the only means of communication in remote locations.

### INDIA

#### VTU INSTALLS VSAT EQUIPMENT

The Visvesvaraya Technological University (VTU), which is the first in the country to adopt EDUSAT facility of Indian Space Research Organisation (ISRO) for 50 of its affiliated institutions, in October signed a second MoU with ISRO to bring 100 more colleges under the programme. Under the EDUSAT project, the VTU has set up studio to transmit expert lectures for all affiliated colleges through DTH reception system. In the first phase, 50 institutions have received the VSAT equipment from the ISRO in two batches.

#### TATANET TO OFFER VSAT EQUIPMENT ON LEASE

Tatanet India has decided to offer its VSAT solution for SME customers in smaller towns and remote areas, especially those that are surrounded by mountains or are on higher ground, where connectivity is still not as easily available, specifically for last mile connections. In such a scenario, VSAT can ensure ready broadband access on a continuous basis and Tatanet officials claim that their product offers an uptime of 99.97 per cent. Tatanet is now offering its product on lease to customers. The deployment charges for the rented equipment are Rs 30,000 and there is a monthly rent of Rs 2000.

#### C&W SIGNS MOU WITH BSNL FOR VSAT DEPLOYMENT

Cable&Wireless India and Bharat Sanchar Nigam (BSNL) have signed a MoU TO leverage each other's strengths by sharing their networks and other telecom infrastructure. While Cable&Wireless India will help BSNL expand its footprint globally and provide more competitive services to its customers, in return BSNL will support Cable&Wireless India spread its tentacles across the country. Additionally, the two parties will share with each other their portfolio of telecom services including basic, leased line and local lead services, Multiprotocol Label Switching (MPLS), Virtual Private Networks (VPN) services, Internet, Very Small Aperture Terminal (VSAT), mobile and broadband services on a preferred client basis, said the companies.

### MIDDLE EAST

#### CETEL TAKES CAPACITY ON NSS-12 SATELLITE

SES New Skies has signed a new capacity deal with CETel on the upcoming NSS-12 satellite to serve what CETel perceives as growing demand in the

Middle East and Africa for VSAT services and corporate networks. SES New Skies' NSS-12 satellite is scheduled for operational service in the second half of 2009 and will replace the existing NSS-703 satellite at the orbital location of 57 degrees East. CETel, a teleport and satellite service provider in the Middle East, Africa and Europe, already operates teleport services on the NSS-703 satellite via a 7.6m antenna. From their teleport facilities, CETel is offering dedicated VSAT services for corporate and governmental networks, GSM backhaul services as well as hosting and managed solutions.

### PAKISTAN

#### SUPERNET SIGNS ONLINE DEAL WITH MCB AND MNET

Supernet, MCB and MNET have signed the first ever tripartite agreement to provide online purchase of internet hours via MCB Virtual Banking facility. The product packages that Supernet offers to MCB are exclusively for the MCB Virtual Banking customers. Supernet, Pakistan's leading Data Network Operator and Internet Service Provider (ISP), offers a wide range of networking solutions to its customers which include Transit Internet; GSM Backhaul via satellite; Broadband VSAT; WiMax wireless access for Metropolitan Area Networks; inter city data connectivity on Fiber Optic as well as digital microwave radio networks to establish enterprise networks.

### AFRICA

#### AIMS TEAMS UP WITH TCIL FOR E-NETWORK PROJECT

An MoU has been signed between the All India Institute of Medical Sciences (AIIMS) and Telecommunication Consultant of India Limited (TCIL) for the latter's Pan-African e-Network project. The Pan-

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African e-Network Project, estimated at INR 5429 million, envisages setting up an e-network connecting Indian institutions with 53 countries of the Africa, through Satellite and Fiber optic links, and providing Tele-education and Tele-medicine services. The network is designed to have 169 VSAT terminals, with 3 VSAT terminals in each country to provide Tele-education, Tele-medicine and Heads of State (VVIP) connectivity with a Satellite Hub Earth station in Senegal. Expansion of the network to the other locations by adding more VSAT terminals as well as broadband, wireless connectivity will be possible by adding additional hardware/ elements and bandwidth.

## THALES TO SUPPLY SATELLITE FOR RASCOMSTAR

Thales Alenia Space has signed a contract with RASCOMSTAR-QAF for the construction of the RASCOM-QAF1R telecommunication satellite. This new satellite will ensure adequate continuity of service capacity to RASCOMSTAR-QAF and its Customers. It will provide the African continent access to telecommunication and new information and communication technologies. The RASCOM-QAF system provides communications services to telecom operators, as well as Internet Service Providers (ISP) and licensed VSAT operators. The satellite will be fitted with twelve Ku-band and eight C-band transponders and will be located at 2.85 degrees East longitude.

## NAMIBIA

### MWEB INSTALLS VSAT EARTH STATION

Local ISP MWEB Africa has installed VSAT that will provide Internet services in both rural and urban areas in order to increase connectivity across the country. The VSAT earth station in Windhoek will provide a cost-effective Internet connection to any location in Namibia in order to cope with the country's increasing demand for Internet access. Currently, there is an insufficient number of fixed-line public phones and limited, unreliable mobile coverage in many parts of Namibia.

## NIGERIA

### GALAXY TO SET UP BROADBAND NETWORK FOR POST OFFICES

Galaxy Backbone, a public enterprise of the Nigerian federal government charged with establishing a single nationwide infrastructure platform, has signed a MoU with the Nigerian Postal Service (NIPOST) to connect 1,500 post offices across the country by December 2009. The MoU will affect 12 million Nigerians in rural and under-served communities, which will gain digital access through a broadband network that Galaxy will establish. Galaxy will implement the project by providing the necessary VSAT-based connectivity to all of NIPOST's 1,500 post offices, he added.

### LAGOS STATE TO LAUNCH ICT NETWORK

Tele Education, Tele Medicine, Videoconferencing, Surveillance Cameras and electronic payment system (E-Pay) are the latest Information Communication Technology (ICT) infrastructural backbone facilities investment made by the Lagos State Government. Private ICT firm ICSL was commissioned to set up the infrastructure, made up of a broadband network infrastructure and connectivity solutions using stable and highly available Wide Area Network (WAN), VSAT, microwave and fibre optics.

## TUNISIA

### 420 VSAT CUSTOMERS IN TUNISIA

Figures recently released by the Ministry of Communication Technologies reveal that the number

of companies benefiting from WiMAX connections reached 700 at the end of June 2008, and the number of subscribers to data sending through VSAT had also increased to reach 420, notably among enterprises producing software and computer systems and call centres.

## WORLD

### KVH ENHANCES VSAT BROADBAND SERVICE

KVH has rolled out a new enhancement to the mini-VSAT Broadband service's performance – the latest edition of its Velocity Acceleration software, offering a significant boost to mini-VSAT Broadband's already fast data rates. This software package, free to all TracPhone V7 users, incorporates on-the-fly content compression software that increases the speed and efficiency of e-mail, data transmissions, FTP (File Transfer Protocol), and web browsing, especially on the ship-to-shore uplink. The compact 24-inch (60 cm) KVH TracPhone V7 antenna and the mini-VSAT Broadband service currently offer regional VoIP and Internet access as fast as 512 Kbps (upload) and 2 Mbps (download) at fixed monthly rates to mariners throughout North America, the Caribbean, the North Atlantic, and Europe.

### ASC RECEIVES APPROVAL FOR KU-BAND ANTENNA

ASC Signal has received a GVF-Intelsat Type Approval for an antenna/transceiver combination, which comprises a complete outdoor unit (ODU). The approval covers ASC Signal's 1.8m Class III antenna in combination with all ASC Signal XR1000 series transceivers. The system is compliant to IESS 208 for Standard K-2, and IESS-601 for standard G earth stations. The ODU Certificate number (GVF/IA 202CA0) is for the 1.8-Meter Class III Ku band.

### STRATOS INTRODUCES NEXT GENERATION AMOSCONNECT

Mobile and fixed-site remote communications solutions provider Stratos Global Corporation has introduced AmosConnect 8.0, the next generation of its popular AmosConnect service. It integrates vessel and shore-based office applications. It is an easy-to-use, yet highly sophisticated service that seamlessly integrates email, fax, telex, GSM text, interoffice communication, and access for mobile personnel into a single messaging system. AmosConnect 8.0 enhances new broadband IP-based maritime satellite services which include FleetBroadband, the VSAT solutions OceanVSAT and Stratos!Tek and the soon-to-be-available Iridium OpenPort. AmosConnect 8.0 also supports all narrowband satellite connections.

### GILAT AND O3B TO LAUNCH NEW SATELLITE TERMINALS

Gilat Satellite Networks and O3b Networks have announced plans for a new line of satellite terminals designed. O3b Networks, funded by Google, Liberty Global, and HSBC Principal Investments, recently announced the Company will deploy the world's first ultra-low-latency, Medium Earth Orbit (MEO), Ka-band, fiber-speed satellite network. This network is designed to improve Internet access for millions of consumers and businesses in emerging markets. Service activation and ground equipment is scheduled for late 2010. Gilat's planned new line of MEO VSAT terminals and gateway components will be developed based on their SkyEdge platform.

# SPECIES

# EVOLUTION



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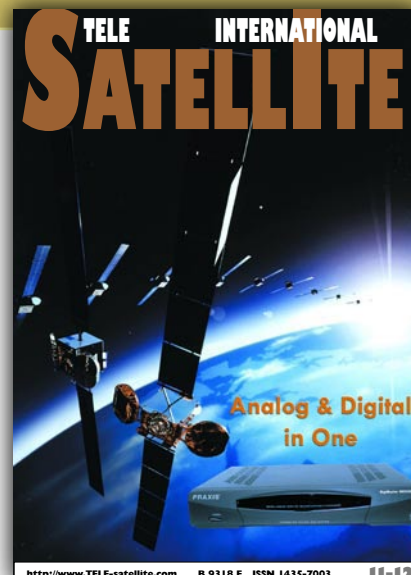
Edited by  
**Alexander Wiese**

**Vortec VS-9700**

Combining digital and analogue technology into one box still seems to be very difficult for most manufacturers. That is why we still haven't seen many of these receivers around. And from the ones available, the analogue part mostly seems to be a part that the manufacturer thought of at the very last moment. Most of the time, the analogue specifications we would like to see are not there. Now, a Samsung company called Vortec has developed the VS-9700 with two things in mind: analogue and digital. The complete concept of the receiver is based on that. Other requirements Vortec defined were universal appliance and high

# 10 Years Ago

Travel into the Past  
**TELE-satellite Magazine**  
**Issue 12/1998**



specifications. And so it has. The VS-9700 can be plugged into the wall socket almost anywhere in the world. And besides that, it has absolutely no problem with SCPC or any MCPC bouquet.

**X-SAT CDTV 350**

It was in the late summer of 1996, when we tested the XCOM 200 digital receiver, made in France. It was the first digital receiver capable of processing SCPC signals—with a little trick that is, but still. A lot of things have happened in



the meantime and a lot of other manufacturers have come with SCPC capable digital set-top boxes, operating at faster processing speeds. But as always, the one who brings new technologies and new features first doesn't fall asleep. And while other brands were focusing on SCPC and other goodies, XSAT was developing its combined analogue/digital receiver, which was introduced in March 1998. This XSAT CDTV350 was not right away tested by TSI, since we just wanted to wait for the first problems to be resolved.

**SRDA 5101**

After having introduced several analogue boxes in the last few months, it was now time for Amstrad to jump on the digital bandwagon—after thoroughly having examined what is going on in the market and making sure to come up with a competitive product. So, this autumn will see the birth of the latest Amstrad digital box: the SRDA 5101, a combined receiver for both analogue and digital reception according to the DVB standard.



**AUSL 40 & AUSS 40**

In most cases, the universal LNB you've bought will fit onto the arm of your dish without any problem. But in some cases the L-shape won't fit because of the fact that the arm is shaped somewhat differently and you simply cannot mount it. Other smaller dishes also require smaller LNBs. Multi-feed installations do not leave much space for large LNBs. New are a smaller LNB and a straight LNB instead of the L-shape. First, there's the AUSL40, a normal 65mm wide LNB. But there's also the AUSS40 which is smaller (50mm) and shaped straight. On the inside however, both LNBs are



exactly the same. The diameter of the feedhorn is 40mm which shows in the part number AUSL40. Both are wideband LNBs, covering the complete frequency range from 10.700 to 12.750. The switching point between low and high is 11.700. LOFs are the usual 9.75/10.6 making them both very universal. For switching between low and high band, a 22kHz signal is needed. Most of today's satellite receivers supply this signal. The necessary power for changing the polarisation may be a little more inaccurate on receivers. Some offer 12.7V where others put 13.8V on the wire. Fortunately, these LNBs can handle this all. They will do their job on vertical polarisation with anything between 12 and 14 Volts. Horizontally, this should be somewhere between 15 and 20 Volts. In fact, this should work with almost any satellite receiver available. Most analogue receivers do not expect very stable signals from your LNB. They offer a very good Automatic Frequency Control (AFC) which keeps track of the signal even when it is going up and down like the Dow Jones. For digital reception however, the situation is a little different. Digital set-top boxes expect a much more stable signal. Since digital signals are much more vulnerable to instabilities than analogue signals, a receiver cannot cope with, say, a 5MHz shift in frequency. Where an analogue box would keep track of the signal perfectly, your digital receiver would lose the signal completely. Cubist art accompanied by annoying noises in the sound appear on your screen whenever the frequency shift exceeds the AFC range.



### KWS AMA 210S

In the old days, a service technician would climb on your roof together with his signal strength-measuring device and yell down that the signal was perfectly fine. Although even for the analogue technology this was in fact not really sufficient, in most cases it was sufficient back then. However, in distribution networks and those situations where integration of terrestrial signals was involved, it was not professional to do so. Nowadays, requirements for a measuring device are much higher and more sophisticated, not in the least because of the digital radio and television signals we are facing now. Still, these devices require a huge investment in money. From KWS now comes a new analyser, labelled the AMA210S. It is perfect in more than one way. It is portable, lightweight and different modules can be added later, if needed. For example, if you require QAM- or QPSK measuring, just install the add-on module. Even for ADR reception, there is a special module to perform highly accurate test and measuring. Although we have tested the predecessor of this AMA210S in TSI before, there are a lot of changes to be seen with this new portable lab, as we like to call it. One of the most important improvements is the much higher power and performance of the processor. This is very much evident in the time it needs for calculations. Especially the spectrum analysis is done much faster than before. Without any optional module, the AMA210S is already a very high-performing device accomplishing the most complex analyses and measurement, complying with the highest standards. A printer is built-in for easy hardcopy of any test result (measuring results as well as the spectrum analysis). But you will also find a teletext decoder, RS232 serial PC connection for which the software is already available, 200 channel memory, DiSEqC 1.0, a huge memory capacity to store over 20.000 measuring results and of course the 64-QAM and QPSK signals analysis.

### An umbrella for LNBs

Para Protection from Norway is introducing Para Protection System, which serves as a kind of bad weather protection for converters. The unit is made of transparent plastic and looks like an umbrella. Fixed onto the LNB tray with two screws it protects the converter from heavy rain and snow.




“All of a sudden their receiver tuned into a station from Earth... and they forgot their oxygen would run out in 1 hour...”

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Edited by  
**Alexander Wiese**

**1987:  
A New Era: Receiving Satellites with a 60cm Dish - Amazing!**

### Satelliten-Empfang

MINI SAT-EMPFANG

#### Die 60er kommen

Schneller als erwartet klappt heute bereits der Satellitenempfang mit 60 cm Spiegel.

Aberlich ist kein Unterschied mehr festzuerkennen: Der alte, klotzige, teure D-MAC-Technik-empfangen werden oder speziell in bodenkundlicher Technik über den TELECOM-Satelliten ausgestrahlte TV-Programme empfangen werden.

Die Rosenheimer KATHREIN-Werke haben Sortiment an Empfangsstationen für den so genannten "KATHREIN" - empfangen. Das Set besteht aus einem 60 cm Aluminium Spiegel und einem angepassten, rauschmindernden Downconverter für den 12,5 GHz Bereich.

Wie bei KATHREIN schon üblich, ist auch der Spiegel so konstruiert, dass er von einem Mann allein installiert werden kann. Die Bedienungsanleitung und unverfälschtes Aufstellvideo ist in deutscher Sprache, die man zu schätzen weiß, wenn einem die Wörter nicht schon so fremd sind.

Der 60 cm Spiegel für den TELECOM-Empfang von KATHREIN - hier auf einem Balkon beleuchtet - Foto: TELE-satellite / Klaus Wechsberger

Ein Schalenantenne mit jedem Spiegel beiliegend, hilft, die vier Schichten anzuordnen. Das ist ein Vorteil, den man bei anderen Spiegeln nicht hat. Diese verstärkten Downconverter werden mit einer Schalenantenne beiliegend. Ebenso einfach lässt sich der TELECOM-Downconverter bei jedem D-MAC-Converter auswechseln.

Der Bedienungsanleitung des Converters ist bereits kein Werk so exakt abgefasst, wie bei anderen Herstellern. Ist alles so richtig, muss man sich überlegen, wie man die Elvanon-Boxen und Flügelmotoren in den Gebrauch von Werkzeug überführen. Sehr hilfreich ist, dass die KATHREIN-Konstruktion auch in einer Grundstellung gedreht werden kann. Schließlich will man bei einem Offsetspiegel nie so hoch, wie man den Spiegel ablesen werden kann.

Durch die Verwendung eines sehr



Foto: TELE-satellite/RAW

**TELE-satellite reports about a Satellite Enthusiast in Split/Jugoslavia, Who Receives Satellite Signals and Retransmits them on VHF**

### Satelliten-Empfang

SAT IM OSTEN

#### Der Äther Zorro

Sat-TV weiter östlich - trotz unruhiger Rechtslage erlebt Jugoslawien einen kleinen Satellitenaufschwung.

Wie in vielen Ländern ist auch in Jugoslawien die rechtliche Lage des Satellitenempfangs nicht gerade eindeutig geklärt. Der Gesetzgeber konstatiert zwar die Existenz von Satelliten, die zwar freigegeben sind, die es aber aus mal noch nicht gibt, und weiß nicht recht, wie Fernmeldesatelliten zu bewerten sind.

Das behindert die Jugoslawen genauso wie Bewohner anderer Gegenden daran, ein eigenes Empfangsgerät zu bauen. Die meisten Programme werden über kleine Satellitenempfangsstationen empfangen, die sogar im Export eindrucksvolle Erfolge verzeichnen können. Eine der Firmen, die Metallwerke "IZ" Titograd, exportieren zu über 50.000 und 70.000 Spiegel jährlich in die USA.

Parasitieren in Sachen Satellitenempfang leistete die Firma George Elmad, nachdem ein bekannter Antennenhersteller bereits vor Jahren mit den ersten Empfangsstationen für die amerikanischen GORizont-Satelliten. Das von ihm exportierte 1-Satellitenempfangsprogramm wird übrigens überall in einem defizitären Staat einschließlich DDR via Satellit empfangen und über Kleinsatelliten retransmitiert. In mehreren Ländern liefern die technischen Ausstrahlungen des Satellitenempfangs den Bewohnern dank Glasnetzen weitere mehr Informationen, als das einheimische TV.

Die Idee, ein Satellitenprogramm retransmitieren, heißt es in Jugoslawien, wird durch den Funkamateurbereich, YU 2 SORZ, zusammen mit seinen Freunden heute er sich eine Satellitenempfangsstation auf einem Hügel seiner Heimatstadt Split und strahlte die empfangenen Programme über normale VHF-Frequenzen wieder aus. Natürlich wurde die jugoslawische Funkübertragung "SIRK" nach und nach beschränkt, die Anlage die Betriebswerkzeuge, nur wenige Wochen später wurde die Anlage wieder zerstört. Das ist jedoch schallend als sich in der Balkanregion ein kleiner Satellitenempfang im Ausland übertrag.

Die Symptome unter der Bevölkerung war groß, denn die Übertragung von Fußballspielen ist in Jugoslawien ein ständiges Ereignis. Die Clubs verlangen für die TV-Übertragung zu hohen Gebühren, um die Einnahmeverluste

Ausführlicher Bericht im Programm "Zeitschrift Studio" über den "Äther Zorro" aus Split.

durch weitgehend Zuschauer zuzurechnen. Es werden zwar viele Spielexemplare durch die Funkamateure, sind dann aber nur im Ausland zu sehen. Alle Aktivitäten tragen diesem Hochfrequenzamateur den Beamten der Äther-Zorro aus Split an. Die kroatische Fernsehprogrammzeitschrift "Studio" berichtet mehrfach über ihn.

Die mechanischen Bauteile für Satellitenempfang werden in Jugoslawien von mehreren Firmen hergestellt. Neben der noch im Export erfolgreichen Firma TITO gibt es die Firma PTT Interop, in deren Angebot sich auch ein sogenanntes "Rechtssatellit" befindet. Die Firma ISKRA trägt sich sogar mit dem Gedanken, einen eigenen Satelliten-Rezeiver zu produzieren. Auf der diesjährigen Messe "YU VIDEO SHOW" im Frühjahr in Zagreb waren die jugoslawischen Sat-TV-Hersteller vertreten.

Bauteile für den Satellitenempfang aus jugoslawischer Fertigung gibt es auch bei uns bereits im Angebot. Insbesondere Motorisierungen und Spiegel können im Jugoslawien-TELE-satellit hätte jedoch noch keine explizite jugoslawische Produkte im Text, sodass die Qualität dieser Bauteile von uns noch nicht überprüft werden konnte.

D. AWBIT

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George ELBART, Partizanska Cesta 5, YU-20050 Gorazd Grad, Tel. 069-74811



Foto: TELE-satellite

# 20 Years Ago

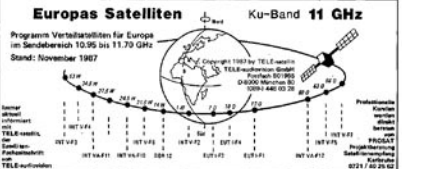
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Issue 11/1987

Europe's Satellites in 1987

Nur in TELE-satellit: die aktuellsten, redigierten Schaltplan Tabellen für Europa

### Europas Satelliten Ku-Band 11 GHz

Programm Verteilungssatelliten für Europa im Sendebereich 10,95 bis 11,70 GHz Stand: November 1987



#### Fernsehen über Satellit 11 GHz

Sendung	Träger	Sender	Empfänger	Sendefreq.	Empfäng.	Sendeleistung	Sendehöhe	Sendeleistung	Sendehöhe	Sendeleistung	Sendehöhe
ARTE	ARTE	10.95	11.70	10.95	11.70	10.95	11.70	10.95	11.70	10.95	11.70
...	...	...	...	...	...	...	...	...	...	...	...

#### Radio über Satellit 11 GHz

Sendung	Träger	Sender	Empfänger	Sendefreq.	Empfäng.	Sendeleistung	Sendehöhe	Sendeleistung	Sendehöhe	Sendeleistung	Sendehöhe
...	...	...	...	...	...	...	...	...	...	...	...

Satelliten-Fachzeitschrift von TELE-audiovision

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## TV-SATELLITEN IM WELTRAUM

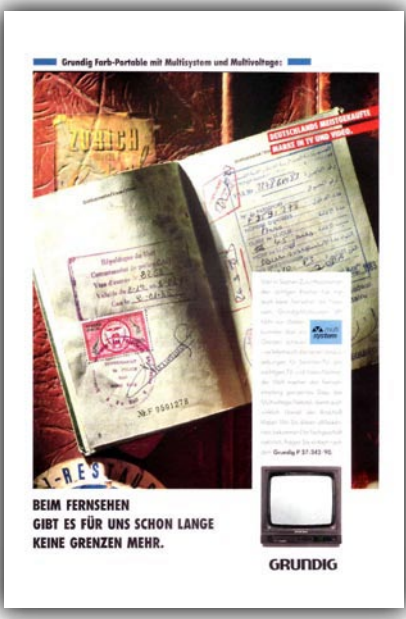
Technik: Was bringt D2-MAC  
Satellitenprogramme: Was ist, was kommt  
Übersicht: Downconverter



90-cm-Spiegel für Telecom schon jetzt

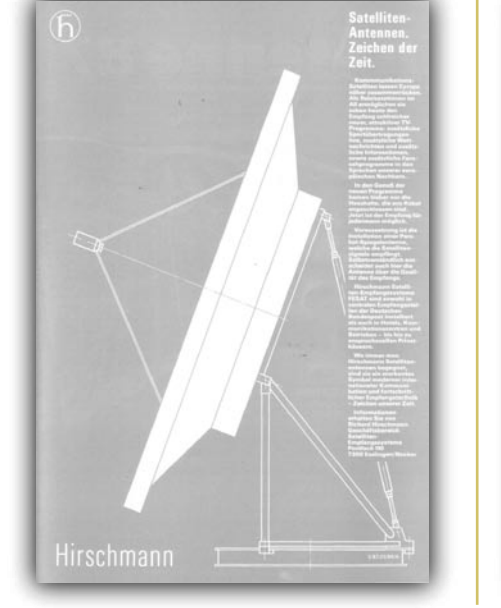
Programmtafel: Fernempfang bei 4 GHz

Grundig Farb-Portable mit Multisystem und Multibänder



BEIM FERNSEHEN GIBT ES FÜR UNS SCHON LANGE KEINE GRENZEN MEHR.

GRUNDIG



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www.cstb.ru



- **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



- **19 - 21 March 2009: SatExpo 2009**

Space and Advanced Telecommunications  
New Rome Fair, Rome, Italy  
www.satexpo.it

- **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**

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Singapore Expo, 1 Expo Drive, Singapore 486150  
www.communicasia.com



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SatcoDX World of Satellite		#210	04/2009	6 February 2009	13 March 2009	27 March 2009
SatcoDX Suite and Updater		#211	06/2009	3 April 2009	15 May 2009	29 May 2009
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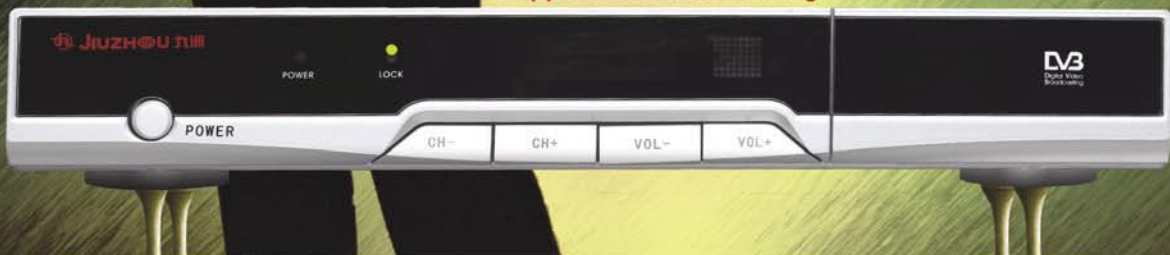
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