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Profilo aziendale

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L'Incontro tra Satellite
ed Internet

In Prova

AB-COM

Quanto Può Essere Potente
un Moderno Ricevitore Linux HD PVR?



TELE **SATELLITE**
AWARD & BROADBAND
04-05/2009

AB IPBox 910HD



TMS

SRM-2100



Start the New year with Topfield Media Solution.

PVR



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GAME



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UCC



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www.i-topfield.com

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"Il Mondo dei Satelliti" di SatcoDX

Il programma "Il Mondo dei Satelliti" di SatcoDX contiene i dati tecnici di tutte le trasmissioni via satellite del mondo.



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Membro di Distrypress

SatcoDX **06/2009**

Il Mondo dei Satelliti

Database dei Satelliti di Tutto il Mondo - Programma Informativo

Software V3.12 ita sdx Creator

Tabelle dei Satelliti di Tutto il Mondo
Qualsiasi Canale di Qualsiasi Satellite

Assistente Sat: Quali Canali Puoi Ricevere Con il Tuo Impianto da Dove Ti Trovi?

DishTrak: Quali Satelliti Puoi Ricevere?

Il Cerca Canali: Trova i Canali che Ti Interessano

Aggiornamento Tabelle Online:
Aggiornamento via Internet Ogni Volta che Vuoi

Programmazione Ricevitori: Ordina, Filtra e Carica sul Tuo Ricevitore Compatibile SatcoDX

Footprint dei Satelliti: Guarda la Vera Copertura dei Satelliti

Esportazione e Stampa dei Dati:
Salva i Tuoi Elenchi Personalizzati

Esporta il Database in sdx
Programma il Tuo Ricevitore
Compatibile SatcoDX

GRATIS
Contiene una Copia
Completa di
TELE-satellite
03/2009

Una Produzione della Rivista TELE-satellite & Banda Larga
Esclusivamente Per Uso Privato e Personale
ISSN 1861-5384
SatcoDX.com

Scaricate il Software SatcoDX da qui:
www.TELE-satellite.com/cd/0906/ita

Elenchi Completi dei Canali di Tutti i Satelliti con Parametri Tecnici

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

Visualizzazione Automatica dei Canali Effettivamente Ricevibili

Programmazione Automatica dei Ricevitori Compatibili SatcoDX

Aggiornamento Dati via Internet mediante Server Principale e Secondario

Stampa Elenchi Canali in Formato HTML

Ch	Freq	Type	Ch	Freq	Px	Channel Name	Coverage
3150	3.760	TV-DIG	4	3.760	V	Telufuturo (left audio)	PAN01RLW
3150	3.760	R-DIG	4	3.760	V	Radio Futuro (right audio)	PAN01RLW
3150	3.764	TV-DIG	4	3.764	V	Canal 5 El Lider	PAN01RLW
3150	3.764	TV-DIG	4	3.764	V	Telecadena 7 y 4	MPG2
3150	3.781	TV-DIG	4	3.781	V	Teletcentro	MPG2
3150	3.786	TV-DIG	4	3.786	V	Feeds	MPG2
3150	3.825	TV-DIG	5E	3.825	H	Deus e Amor	MPG2
3150	3.869	TV-DIG	7E	3.869	H	Gamavisión	MPG2
3150	3.869	R-DIG-C	7E	3.869	H	Radio Sonorama	MPG2
3150	3.882	TV-DIG	9E	3.882	H	Feeds	MPG2
3150	4.040	TV-DIG	18	4.040	V	CTC-Mundo	MPG2
3150	4.071	TV-DIG	18	4.071	V	UCV TV	MPG2
3150	4.096	TV-DIG	19	4.096	H	TNP - Television Nacional	MPG2
3150	4.096	TV-DIG	19	4.096	H	Education A Distancia	MPG2
3150	4.096	R-DIG	19	4.096	H	Radio Nacional del Peru (r	MPG2
3150	4.106	TV-DIG	4.106	V	VLLI-TV	MPG2	



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209
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مقبر عن شركة
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Test **4 Parçalı VENUS**
Endonezya'dan Yenilikçi Ağ Anteni

Test **DIZIPiA**
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Çift Tunerli HDTV PVR

SATELLITE AWARD 02-03/2009

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<http://magazine.tele-satellite.com/TELE-satellite-0903-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



3500 HDMI PVR

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



3000 CRCI PVR

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



3500CI HDMI PVR

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



3000 CR PVR

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



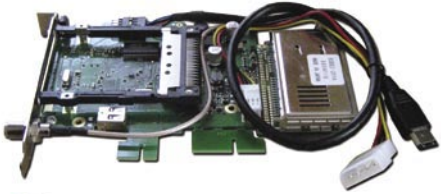
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Cari Lettori



La scelta di eccezionali ricevitori HDTV diventa ogni giorno sempre più ampia. In questo numero presentiamo ancora una volta due interessantissimi nuovi apparecchi: un ricevitore PVR ed una scheda PC.

Purtroppo, il numero di canali HDTV non cresce invece alla stessa velocità. Anzi, l'attuale crisi economica ha addirittura costretto alcune emittenti ad abbassare il numero di bit per risparmiare denaro con l'operatore satellitare. Il risultato è che sempre più immagini TV non sono molto divertenti da guardare. Si parla di "poltiglia di pixel" quando la qualità di immagine raggiunge il suo peggior livello.

A mio parere dovrebbe invece avvenire l'opposto. Invece di trasmettere quanti più canali possibili in qualità scadente, le emittenti dovrebbero ridurre il numero dei canali in modo tale che quelli rimasti possano essere trasmessi con la migliore qualità a disposizione!

E' incredibile: le statistiche SatcoDX dicono che esistono attualmente nel mondo oltre 18.000 canali TV. Ma, in pratica, un normale spettatore non ne guarda nemmeno 100, anzi, questo numero è probabilmente più vicino a 50 o forse anche meno.

Da qui la domanda: quale criterio utilizza uno spettatore per scegliere i suoi canali preferiti e programmarli nel proprio telecomando?

C'è da dubitare che qualcuno si sia mai chiesto se gli spettatori diano priorità ai canali che guardano in base al loro contenuto. Io penso che i canali trasmessi con la migliore qualità guadagnerebbero automaticamente i favori degli spettatori, lasciando invece ai contenuti un ruolo secondario.

Sono convinto che se le emittenti riducessero il numero di canali investendo in una migliore qualità dell'immagine, il risultato sarebbe un maggior numero di spettatori. E come piccolo effetto collaterale anche i fabbricanti di ricevitori e di monitor sarebbero più contenti in quanto il pubblico apprezzerrebbe maggiormente la qualità del proprio impianto.

A volte, meno è di più!

**Sinceramente,
Alexander Wiese**

P.S.: la mia stazione radio preferita del mese è "Radio Fresh" su THOR 359° Est (1° Ovest), 12.169 Ghz, H, 28000: una stazione di musica pop dalla Bulgaria con poco parlato e tanta musica.

INSERZIONISTI PUBBLICITARI

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HD2.0

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



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

Dolby Digital Down-Mix Output Support (*Optional)

Conax CAS 7 Embedded Chipset Pairing

Cable HD Ready Support (for Cable STB only)

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

Software Upgrade via USB 2.0

YPbPr, CVBS, HDMI, SCART Video Output Support

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

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

Easy and Fast Auto Programming, Intuitive User Interface

Multi Language Support(Customer Option)

HD2.0 Slim



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TOPFIELD **NEW** Topfield Media Solution



Features available at launch

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



PVR
Playing recorded programmes up to 64 times speed at maximum



GAME
Featuring a double-player game „Battle Tank“



UCC
Playing media contents of YouTube



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

Experience the future of digital receiver

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

Features will be available by firmware updates

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



TOPFIELD TF 5050CI HDMI



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



Measuring Instruments

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



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

ALSO AVAILABLE:

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

DIGISAT PRO ACCU

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

With DiSEqC tester.



ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB

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

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



Satlook Micro G2



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

ALSO AVAILABLE:

Upgrade-KIT for Satlook Micro

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

Satlook Micro G2 upgrade contains:

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

Satlook NIT Color



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

TOPFIELD

TF 6500T HDMI



DVB-T Receiver

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

TF 6000 FE

Digital satellite Receiver

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

PCMCIA-Modules

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



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

Boca **NEW**

DSL 250 / DSL 250-T



Digital satellite / terrestrial Receiver

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

DSL 350 1CI



Digital satellite Receiver

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

DSL 500 PVRready



Digital satellite Receiver PVR-ready

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

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ANGACable
Fachmesse für Kabel, Breitband und Satellit

from 26. until 28.05.2009
in hall 10.2 / booth A 29



HDTV Receiver Selection

TOPFIELD

TF-7700 HD PVR



HDTV digital satellite Receiver with personal video recorder

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

TOPFIELD

TF-7700 HSCI / TF-7700 HCCI



HDTV for satellite and cable reception

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

Boca

NEW

HD 200 CI PVR



HDTV digital satellite Receiver PVR-ready

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

Motors

Aktuatoren/ Actuators

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



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

LNBS

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



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

Inverto

NEW



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

All available as:

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



Full LNB range INVERTO available from stock

Multiswitches / DiSEqC - Switches

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



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

sa SPAUN Full Range

Parts

Multifeederholder for 2, 3, or 4 LNB



Wallmounts

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



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

Remotesystems

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



Koaxialcable

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



invacom QDH 031



AVAILABLE AS:

- 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

Full LNB range MTI available from stock

Inverto

digital-labs

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

SELF SAT H10D / H10D2



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

MAXIMUM Flat-1



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

Multifocus Dish

MAXIMUM

E-85 Multifocus 48° Dish



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

Balcony mounting parts

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



120 cm length – Ø 6 cm

ALSO AVAILABLE:

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

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

by Thomas Haring

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

Creating a DVD

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

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

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

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

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

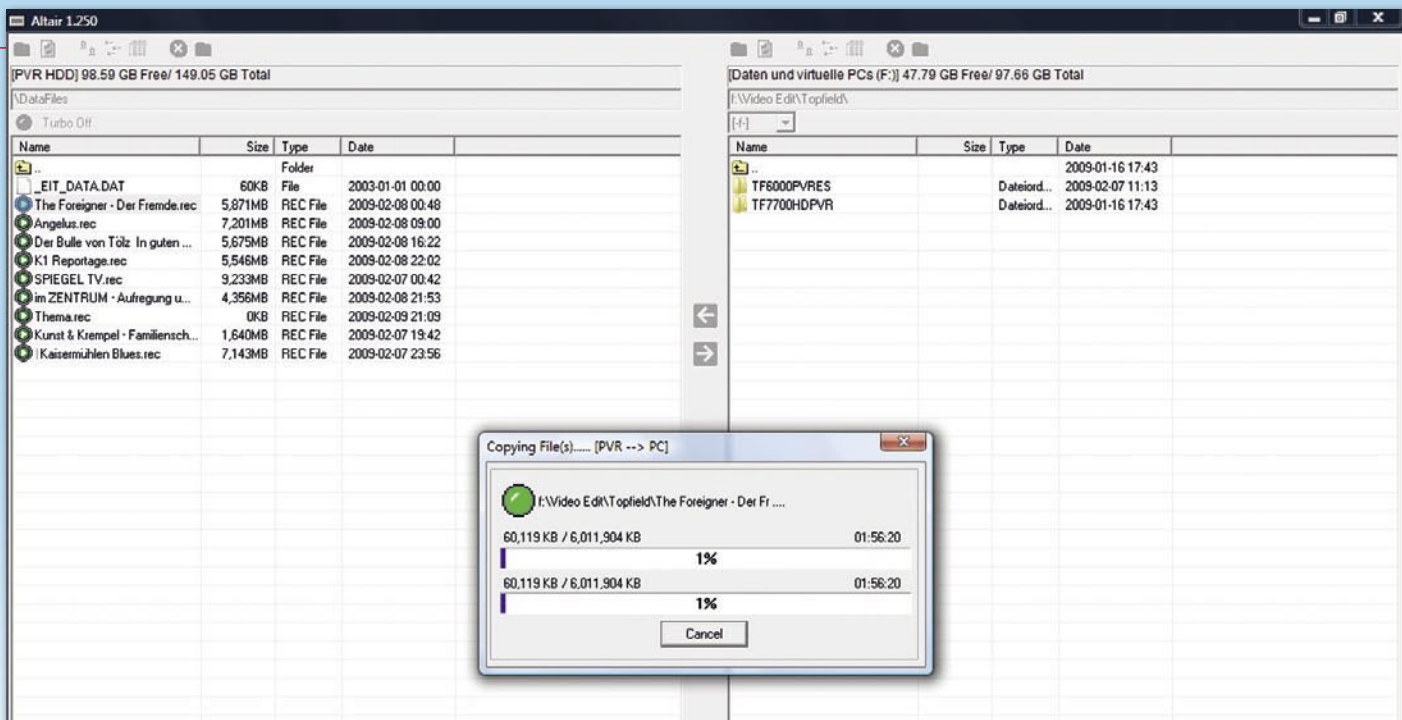
it as a removable disk drive after a few moments and then you're all set for copying files to the local disk.

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

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

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





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

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

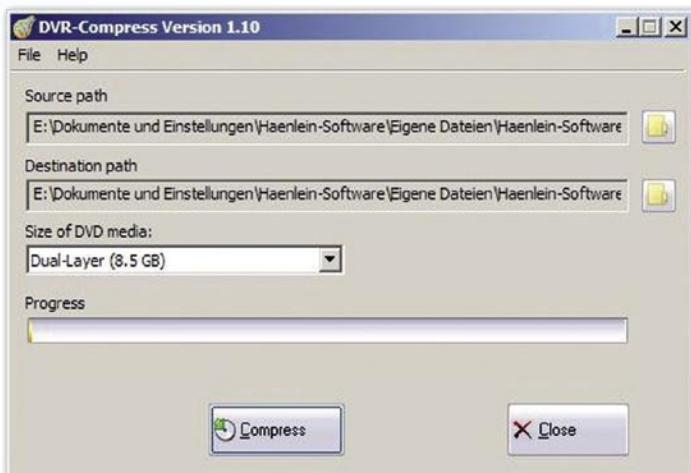
All this is not only available in the local network, but also via the Internet, if required. This means you are able to check right from your hotel room whether your Topfield receiver at home has recorded all events you had set in the timer. Or if you find out a blockbuster movie is on TV that night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

Transferring a recording from the receiver to the PC

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

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

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



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



TOPFIELD®



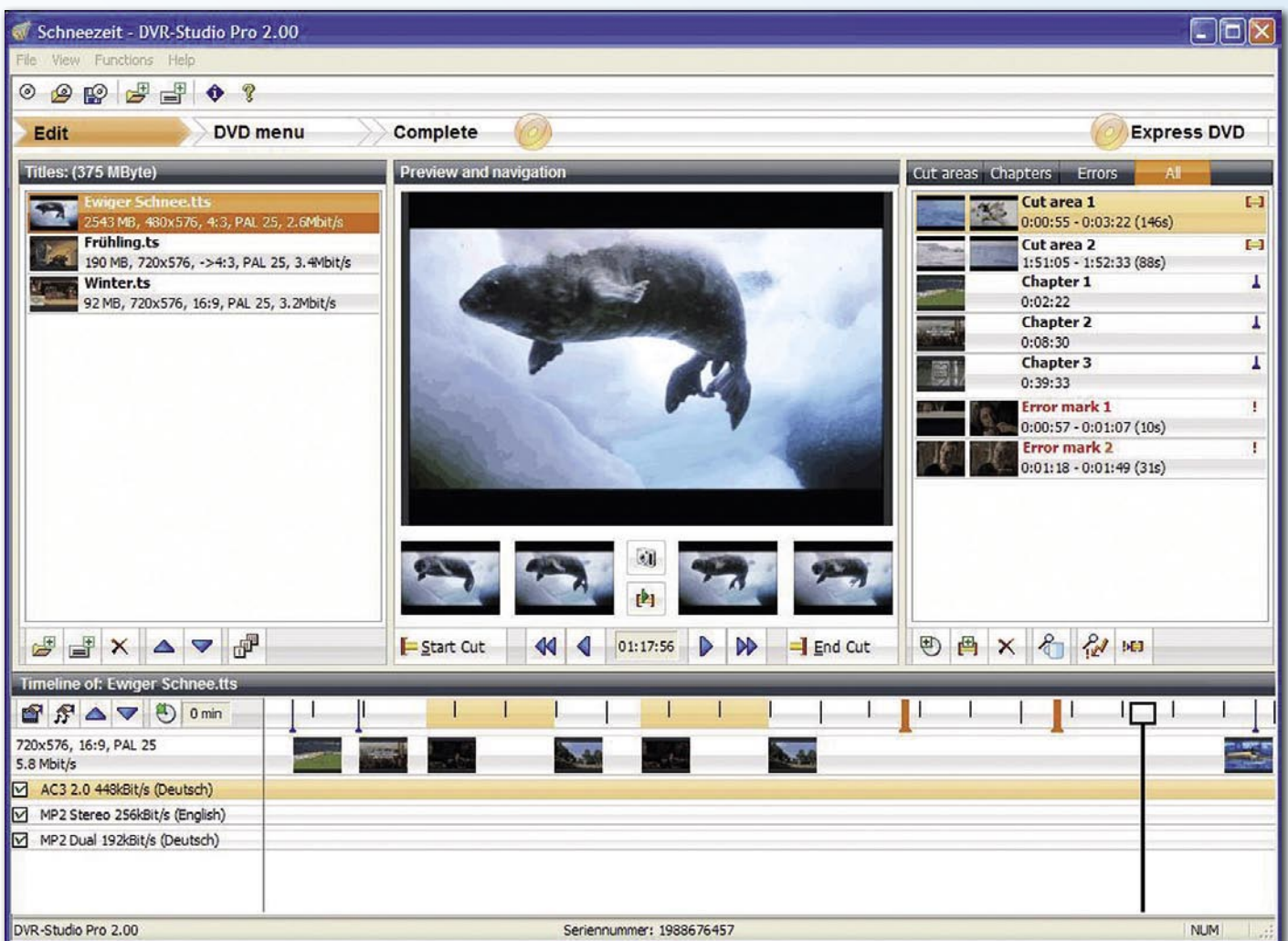
DVR Studio HD creates DVDs or Blu-ray discs from HD material

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

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

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

Once all required drivers are installed



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

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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.



FS-9000HD

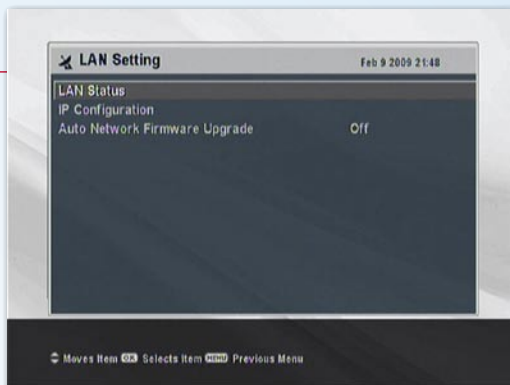
MPEG4 - HD,SD / H.264 / DVB-S2 Twin Tuner
Micro SD slot for external memory
Supporting DivX file play back



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FORTIS



Network menu of the TF6000PVRE



Network status displaying assigned IP addresses



DHCP for automatic retrieval for required settings



Manual IP assignment



Software update via satellite

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

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

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

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

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

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

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

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

The following comparison clearly shows how the transfer rate changes:

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

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

Editing recordings on the PC

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

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

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

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

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

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

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

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



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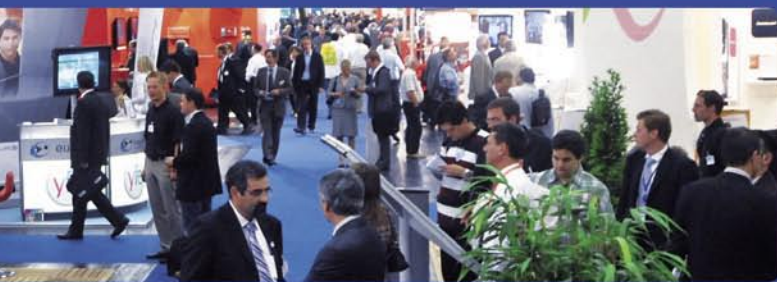
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Software update via PC using a USB or serial connection

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

Editing the channel list

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

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

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

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

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

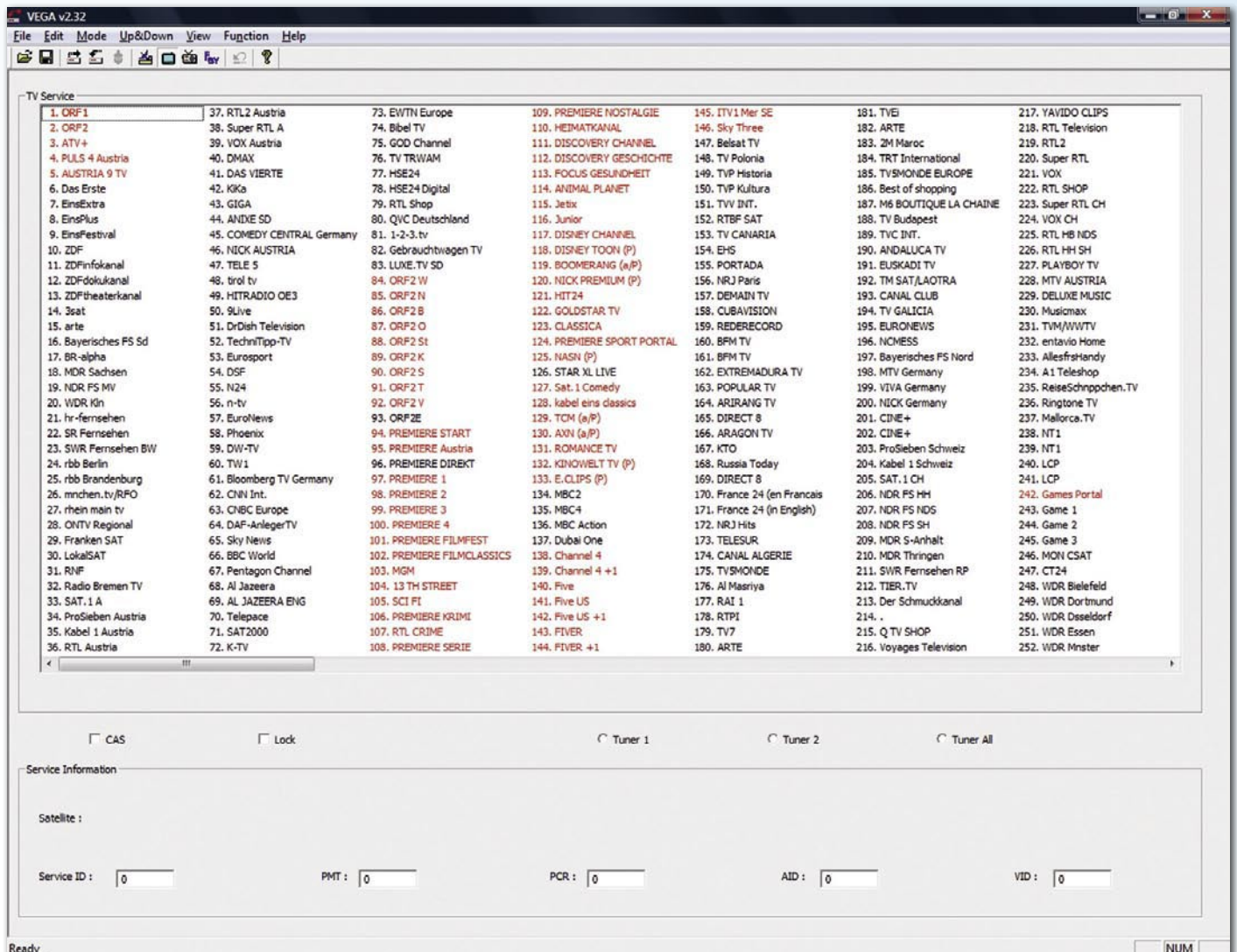
In a first step you need to make sure

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

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

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

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



Vega channel list editor



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only a few mouse clicks. The only think Vega does not support, unfortunately, is directly loading satellite from www.Sat-coDX.com.

Software update

Topfield goes to great lengths to continuously expand the feature list of its products and to improve the reliability and stability all the time. This is why the firmware and operating software of Topfield receivers can be updated as the need arises.

European users can update their boxes over-the-air via ASTRA 19.2° East or HOTBIRD 13° East or they can choose to manually load new software onto the device.

Topfield regularly releases new versions of the operating system on its Internet platform at www.i-topfield.com for free download. Users simply need

to download the corresponding file and transfer it to the receiver via a USB 2.0 or serial connection using the TFDN-USB application that is also available from Topfield. The procedure is exactly the same as for uploading edited channels lists.

The top-of-the-range TF7700HDPVR as well as all other receivers with an integrated network interface even allow updating the software directly via the Internet. A gateway or router has to be installed to that end, so that it is possible to provide a connection to the Internet for the receiver.

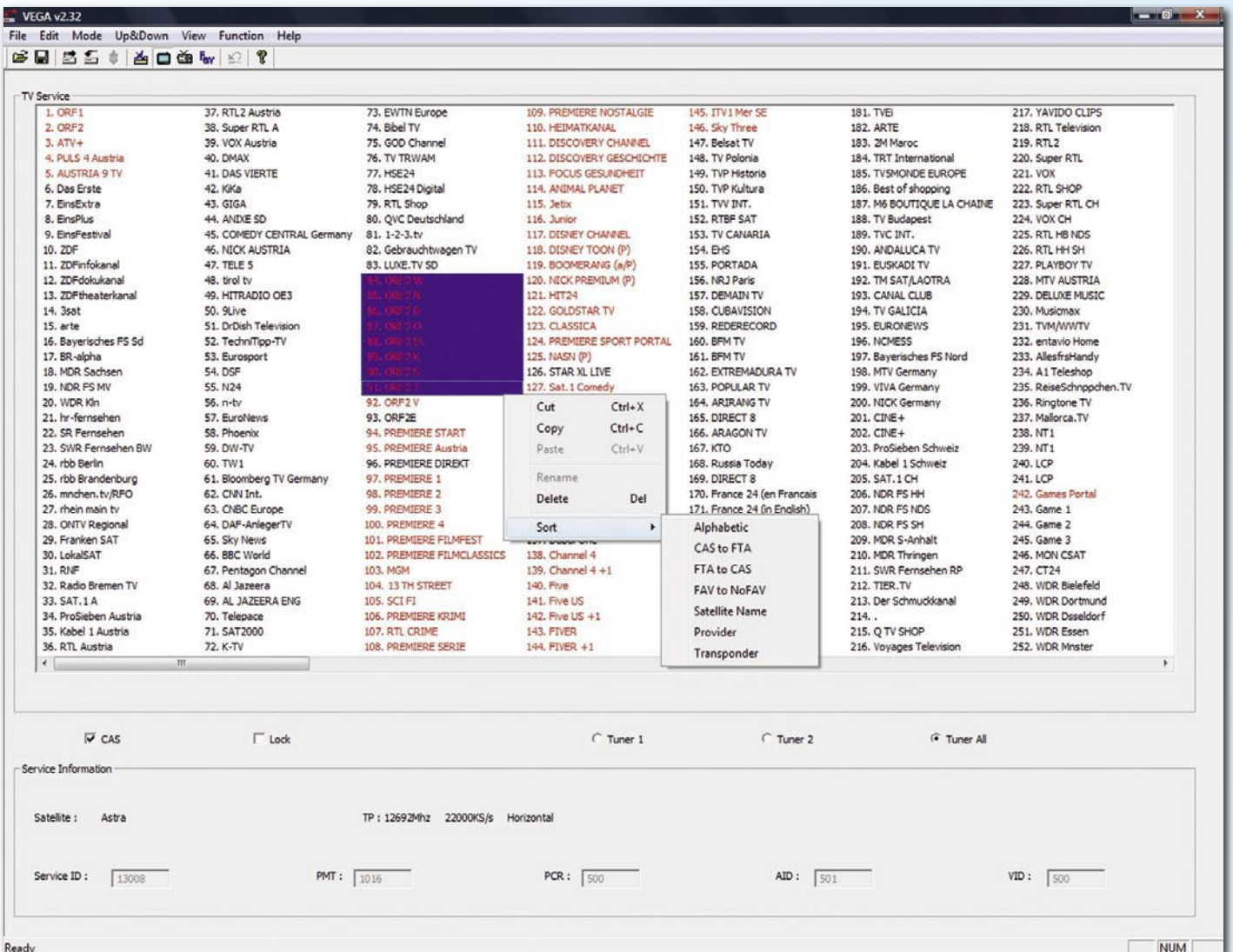
In such a configuration the Topfield TF7700HDPVT, for example, can automatically obtain all information (like standard gateway or DNS server) thanks to DHCP. Alternatively, all settings can also be entered manually. As soon as a connection to the Internet can be established the receiver connects to the Top-

field server and checks whether new updates have been released.

If this is the case the update is loaded and installed without the user having to do a thing. A simple re-start of the box is all that's required before the new software is operational. While an over-the-air update via satellite is equally user-friendly, this new technology is much faster and also provides regular updates for users whose antenna does not point to either ASTRA or HOTBIRD.

In conclusion, it is safe to state that Topfield clearly works with its users in mind. Thanks to innovative solutions it successfully invests in customer satisfaction and raises eyebrows again and again with its advanced technology.

In addition, Topfield makes available a whole range of useful free software that further expanda the different uses of its satellite receivers.



Various sorting modes of Vega

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AB IPBox 910HD

Quanto può essere potente un moderno ricevitore HD PVR Linux?



Il progresso nel campo della produzione di ricevitori è semplicemente stupefacente!

Avremmo mai immaginato anni fa,

quando arrancavamo continuamente coi ricevitori analogici, che un apparecchio dall'aspetto simile non solo ci avrebbe fornito immagini favolosamente colorate ed incredibilmente limpide, ma ci avrebbe anche permesso di riprodurre musica e file video, inviare e-mail e giocare? Il confine tra computer e ricevitori sta scomparendo, dando luogo ad apparecchi di semplice utilizzo per tutta la famiglia, con un potenziale enorme per gli utenti più avanzati.

E ABCOM, famosa per i suoi potenti ricevitori basati su Linux sta certamente dando una mano affinché ciò avvenga. Stanno svolgendo adeguatamente il loro compito a casa, aggiornando continuamente l'hardware ed il software. È particolarmente piacevole osservare che diversi inconvenienti dei loro precedenti modelli sono già stati corretti. Oggi abbiamo avuto l'opportunità di testare l'AB IPBox 910HD, uno stretto gemello del 900HD, che abbiamo esaminato un paio di numeri fa (TELE-satellite 08-09/2008).

Il modello più recente mantiene tutti i vantaggi di quello precedente. Ricezione di entrambi i canali standard ed ad alta definizione, sia in DVB-S e DVB-S2, sia in MPEG-2 e MPEG-4. Preferite piuttosto permettere a vostra nonna di continuare a vedere le soap-

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opera tramite la tv terrestre, quando le trasmissioni analogiche vengano chiuse? Il 910HD vi potrebbe aiutare anche qui. La sostituzione del sintonizzatore DVB-S con quello DVB-T è questione di un minuto. Lo stesso vale per il sintonizzatore DVB-C per la TV via cavo.

Da distante notereste a fatica qualche differenza visibile tra il 900HD ed il 910HD. Ma le piccole differenze sono qualcosa che qui conta. Il pannello frontale mantiene l'eleganza del 900HD, che lo rende adatto anche agli interni più esclusivi. Oltre ai due slot CI, che sono localizzati dietro uno sportello a chiusura magnetica, possiamo trovare un display VFX luminoso e di facile lettura, assieme ad 8 pulsanti, che vi permettono di controllare praticamente tutte le funzioni di base del ricevitore.

Anche il pannello posteriore è buono come prima, ma anche qui qualcosa è andato avanti. Se è installato il sintonizzatore DBV-S, come nel nostro modello di test, nell'angolo sinistro troverete un input LNB col corrispondente output passante. Tutto ciò che riguarda il computer e le connessioni di rete è gestito attraverso la porta USB e le prese RS-232

ed Ethernet. Gli output HDMI, S/PDIF e Y/Pb/Pr sono responsabili dell'immagine e suono cristallini. Una presa Scart e tre prese RCA sono presenti per compatibilità retroattive, dal momento che difficilmente vi farebbero apprezzare tutti i benefici dell'HDTV. Sono presenti una porta E-SATA ed una presa d'alimentazione per un disco fisso esterno, sebbene il 910HD vi permetta di installare un disco fisso SATA anche all'interno dell'apparecchio! Verrà avviato assieme al ricevitore, non più seccature con cavi infiniti e prese. Ma ora avete la possibilità di scegliere, se desiderate le vostre registrazioni in movimento, potete ancora utilizzare un disco fisso esterno.

Accanto all'interruttore di alimentazione principale, c'è una ventola che protegge la potente elettronica del ricevitore dal surriscaldamento. Veramente un accessorio intelligente! Comunque, gli utenti più delicati potrebbero trovarlo leggermente rumoroso. Ad ogni modo, non è un problema recarsi presso un negozio di computer e scegliere un modello più silenzioso.

Il telecomando è una copia esatta di quello spedito assieme al modello prece-

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dente. In verità, ciò ha causato proprio un po' di confusione all'inizio qui nel nostro laboratorio di test, dal momento che utilizzavamo ancora il 900HD. I segnali operativi sono gli stessi, comunque il telecomando del 900HD/910HD può anche essere programmato per controllare i precedenti IPBox, se dovete averne uno. È pure semplice programmarlo per operare sul vostro apparecchio TV, esistono centinaia di modelli tra cui scegliere sull'ultima pagina del manuale d'uso. Per quanto riguarda la progettazione, non rimangiamo le parole dette nell'ultimo rapporto di test sul 900HD, è pieno di pulsanti, ma questi sono organizzati in modo talmente logico, che vi abituerete molto rapidamente. E con un pulsante speciale per molte funzioni del ricevitore, è facile non perdersi.

Impostazione iniziale

Potrebbe sembrare che il firmware ufficiale della ABCom non sia molto cambiato, almeno nei primi passaggi. Lo stesso assistente vi guida dapprima attraverso lo schermo di scelta della lingua (l'OSD può essere visualizzato in inglese, russo, francese, italiano, olandese, tedesco, danese, ceco, slovacco, ungherese, norvegese, polacco, portoghese, spagnolo, svedese, greco, turco, coreano, croato, bosniaco, serbo, bulgaro, rumeno e finlandese, le lingue preferite possono anche essere selezionate per l'audio, i sottotitoli ed il teletext), poi nello schermo per le impostazioni dell'ora locale. Ancora, un'ampia gamma di scelte - se impostare l'ora manualmente oppure lasciare





Configurazione del satellite



Impostazione del posizionatore USALS

che il ricevitore la acquisisca automaticamente dal flusso; qui sono anche presenti le opzioni per il modo dell'ora e l'ora legale.

Al passaggio successivo dovrete avere già collegata la vostra antenna. Nel caso di un sintonizzatore satellitare, premete per primo il pulsante rosso per aggiungere passo per passo tutti i satelliti che avete in programma di vedere. Attraverso lo stesso schermo ciascuno può essere programmato con la sua propria frequenza locale di oscillazione, liberamente selezionabile. Sono supportate tutte le versioni di DiSEqC (1.0, 1.1, 1.2 e 1.3), che può rendere l'AB IPBox 910HD il cuore del vostro sistema multi-satellite. Una volta trovati tutti i satelliti desiderati, premete il pulsante "Exit" per ritornare alla schermata dell'assistente.

Premete il pulsante "giallo" per il passo seguente, che vi porta direttamente alla ricerca dei canali. Lo schermo che appare ha due tasti, Automatica e Manuale. I nomi

spiegano molto bene la loro funzione. La prima utilizza le frequenze dei canali preprogrammati oppure trovate all'interno del parametro NIT, mentre la seconda vi permette di inserire manualmente tutti i parametri. Naturalmente, la Modulazione e i parametri di FEC speciali per il DVB-S2 non vengono dimenticati.

La ricerca dei canali regolare automatica o manuale non farebbero la gioia di Schumacher, ma sono ancora abbastanza veloci per uno spettatore normale. Ci sono voluti 9 minuti per analizzare una posizione satellitare con 105 transponder. Per quelli più impazienti che semplicemente non possono aspettare di avere la loro prima immagine sullo schermo, esiste una funzione di "Caricamento veloce", che semplicemente carica la lista dei canali prememorizzata. Così, se volete piuttosto avere una lista di canali più aggiornata, occorre essere pazienti.

Tutte le opzioni ulteriori possono essere trovate logi-

camente nel menu principale, che inizialmente lascia anche una sensazione di déjà vu. Ma sappiamo che i programmatori erano occupati, così ci dovrebbe essere qualcosa di nuovo! Ok, qui possiamo selezionare tutti i parametri dello schermo, come aspect ratio, sistema TV, Scart, formati di uscita HDMI e S/PDIF. Qui troviamo un sottomenu dove possiamo collegare il nostro 910HD alla rete locale e/o internet, verificare i parametri del disco fisso oppure effettuare un reset ai valori di fabbrica. Aha! Adesso c'è anche un riproduttore di video DivX, ma l'intera parte multimediale merita delle parole speciali, per cui restate sintonizzati!

Dove eravamo? Ah, è un ricevitore satellitare dopo tutto. Così, prima di ammatire sperimentando l'utilizzo di Linux, Telnet e FTP, afferriamo il telecomando e diamo uno sguardo alle sue funzioni di base, cioè ricevere i canali digitali.

Uso quotidiano

La lista dei canali appare identica a quella del 900HD, qui ci sono tutte le funzioni utili. Diverse opzioni di ordinamento, potete avere i canali organizzati alfabeticamente, FTA/codificati, per satellite o provider. La pressione del pulsante giallo attiva la funzione di "salto", che è d'aiuto nel caso abbiate migliaia di canali ordinati provenienti dal vostro sistema multi-satellite, per esempio, passa alla lettera successiva, se avete selezionato l'ordinamento alfabetico. Ad ogni modo, per organizzare ancora meglio le cose, non dimenticatevi del pulsante "FAV", che vi permette di accedere velocemente ai canali preferiti. Esistono 5 gruppi predefiniti di preferiti - Sport, Dramma, Notizie, Film e Musica. La pressione del pulsante "i" permette di crearne quanti ne volete di nuovi, oppure cancellare, rinominare, spostare, editare o bloccare quelli esistenti.

Premendo "i" all'interno della lista principale dei canali, si ottiene l'accesso ad opzioni simili di modifica, includendo

la nostra preferita del 900HD - modificare il volume audio di default per ciascun canale. Una soluzione elegante per un vecchio problema - quante volte nel fare zapping il canale successivo ha scosso la vostra stanza con un suono inaspettatamente forte? Ora è sufficiente regolare semplicemente il suo volume nella lista canali e voilà! Nessuno si lamenterà più che il vostro apparecchio TV è troppo alto!

A proposito di zapping, 910HD non renderà felici i maniaci dello zapping, ma 1 secondo tra un canale e l'altro va perfettamente bene per gli spettatori regolari. Può essere più veloce all'interno dello stesso transponder, o un po' più lento tra DVB-S e DVB-S2, tra SDTV e HDTV. Ma alla fine potete essere sicuri che praticamente nessun canale resterà fuori dalla vostra visione! Anche quelle emittente SCPC più difficili come Calabria Channel su HELLAS SAT 2, con un SR di solo 1425! Un plug-in speciale per il bitrate vi aiuta a verificare se l'immagine ed il suono del canale è veramente buono come l'emittente ha promesso. Anche il PIP è buono come d'abitudine. Due canali sullo stesso transponder possono essere visualizzati in finestre di dimensioni identiche, la seconda può essere mostrata in una finestra più piccola dietro quella principale, e si possono scambiare tra loro. Dal momento che il telecomando è identico a quello del 900HD, è lo stesso pulsante sulla seconda fila in alto su di esso.

Anche qui troviamo una piacevole e semplice EPG a due modalità, in tutta la sua gloria. Un click del pulsante EPG elenca gli eventi in arrivo per il canale selezionato, premetelo una seconda volta ed avrete una vera guida ai programmi, con tutti i canali adiacenti che mostrano la loro informazione per l'EPG, per quanto sia resa disponibile dall'emittente. Solamente un singolo click del pulsante con un cerchio rosso sul telecomando, ed il vostro show preferito viene marcato per la registrazione.

È qui che il meraviglioso PVR



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appare alla vista. Il 910HD non solo vi permette di collegare un disco fisso esterno alla porta USB oppure E-SATA, ne possiede già uno all'interno. Il nostro modello di test è stato spedito con un disco fisso di 500 GB, che è abbastanza grande per gestire non solo le registrazioni del PVR, ma anche l'immagazzinamento di film DivX e musica MP3. Ma mentre ci concentriamo sul PVR, vale la pena di notare il pulsante "Envelope", che vi consente di accedere a tutte le registrazioni in un paio di click, e la meravigliosa opzione Timeshift. Attivatela nel menu "Advanced Setup" - "HDD setup", e potete provare la forza della magia - fermare la trasmissione corrente in qualsiasi momento, occuparvi di qualsiasi problema urgente che d'improvviso vi distoglie dal vostro film preferito, e quindi riprendere esattamente dallo stesso punto che avete lasciato! È anche semplice "riavvolgere" la trasmissione ad un momento particolare che desiderate rivedere. E non avete la necessità di essere uno scienziato spaziale per abituarvi ad usare tutto ciò, si tratta in tutto di 1-2 click!

Opzioni multimediali

Dal momento che il firmware del 900HD/910HD viene continuamente sviluppato, entrambi gli apparecchi offrono ora la possibilità di riprodurre entrambi file audio e video, come pure visualizzare foto, memorizzati sia su un disco fisso esterno oppure su una chiavetta USB, oppure sul disco fisso interno del 910HD, dove quei file possono essere caricati attraverso l'FTP (prendete l'indirizzo IP del ricevitore dal menu "Advanced Setup" - "IP setup", usate "root" come UserID e "ipbox" come password) nella directory "media".

Il sottomenu "Multimedia" ha anche incluse alcune funzioni PVR, queste sono "Recorded files" per le registrazioni PVR conservate e "Recording Schedule" per la programmazione delle registrazioni, secondo il vecchio stile. Le tre opzioni restanti sono esclusivamente per i sopra menzionati file "esterni". Le foto possono essere visualizzate sia individualmente, con un doppio click sul loro nome col pulsante

"OK", oppure a scorrimento, che può essere programmato premendo il pulsante giallo. Il lettore MP3 accoglie l'utente con uno schermo un po' più avanzato, mostrando i pulsanti operativi regolari del lettore, come anche la durata della traccia correntemente riprodotta ed il suo bitrate.

E mentre nessuna parola negativa può essere detta

su questi due, il riproduttore Video/DivX necessita che venga svolto ancora un po' di lavoro. In un filmato di prova, che funzionava perfettamente sul nostro PC, il 910HD non aveva l'audio ed il video sincronizzati. Il video era 1-2 secondi indietro. Pur nondimeno, funziona, ed il problema della sincronizzazione verrà preso in considerazione nei prossimi aggiornamenti.



Aggiornamento del firmware

Per ricevitori tanto potenti e veramente universali è importante mantenere il software interno aggiornato, in quanto il suo enorme potenziale non è ancora del tutto scoperto. ACom ha tentato di semplificare, aggiungendo la possibilità di scaricare ed

installare il firmware direttamente dall'apparecchio, senza la necessità di alcun apparecchio esterno. Ma, sfortunatamente, qualcosa è andato seriamente male. Il 910HD che abbiamo ricevuto aveva la versione del firmware 8340, mentre secondo il sito web del produttore, quella più aggiornata è la 8360. La via più ovvia era andare al menu "Advanced

Setup" - "Network Update". E cos'abbiamo qui? Due versioni totalmente datate del firmware! Questo problema richiede sicuramente di essere affrontato dal produttore. Abbiamo dovuto selezionare un altro modo di aggiornare il firmware del ricevitore utilizzando la chiavetta USB.

Dal punto di vista dell'hardware l'AB IPBox 910HD lascia

difficilmente qualcosa da desiderare. Tutti i collegamenti necessari, possibilità di cambiare i sintonizzatori come plug-and-play, la capacità di ricevere DVB-S e DVB-S2, MPEG-2 e MPEG-4, HDTV e SDTV. Potete anche copiare tutti i vostri film preferiti, file musicali e foto sul suo disco fisso. Giocare oppure verificare le previsioni metereologiche. Installare con facilità centinaia di accessori software. Oppure trasformare il ricevitore in qualcosa di totalmente nuovo attraverso l'installazione di firmware alternativi.

ACom continua a svolgere il proprio compito, e mentre la maggior parte delle cose basilari sono perfettamente funzionanti nel 910HD, questo è una buona scelta, a prova di futuro!



ab-com



Opinione dell'esperto

+

Un ricevitore che potrebbe soddisfare praticamente chiunque, poiché può cambiare completamente con tipi differenti di firmware.

Nel caso sia installato quello ufficiale, è veramente facile da controllare, anche i bambini non avrebbero problemi nel trovare un canale di cartoni preferito.

Un firmware alternativo può anche rendere felice il DXer più incallito.

Flessibilità e universalità totali - DVB-S, DVBS2, MPEG-2, MPEG-4, HDTV e SDTV vengono ricevuti perfettamente.

La semplice sostituzione di un sintonizzatore lo può rendere un apparecchio per la TV via cavo o terrestre.

La possibilità di installare un disco fisso interno lascia alle spalle la confusione di cablaggi esterni, ma può ancora essere addizionalmente collegato un disco fisso esterno.

Un vero apparecchio multimediale, che combina la TV digitale satellitare/via cavo/terrestre con l'ascolto di musica, la visione di DivX e la visualizzazione di foto.



Nickolas Ovsyadovskiy
TELE-satellite
Test Center
Hungary

-

La ricerca dei canali e il cambio canale potrebbero essere un po' più veloci.

Il riproduttore di DivX dovrebbe essere controllato in modo che audio e video siano perfettamente sincronizzati.

La ventola di raffreddamento sul pannello posteriore dovrebbe essere sostituita con un modello più silenzioso.



Lista canali

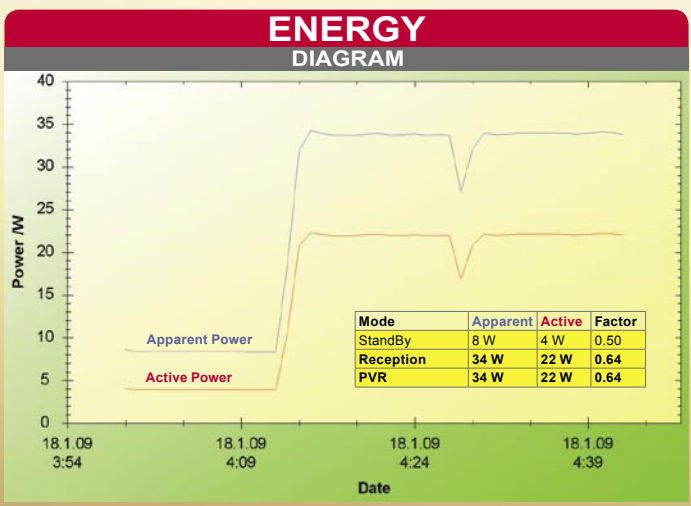


Modalità PIP con selezione del sottocanale

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



Ricezione SCPC con SR di solo 1425



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

Sea Tel... new look, new products, and a strong commitment to keep you connected at sea.



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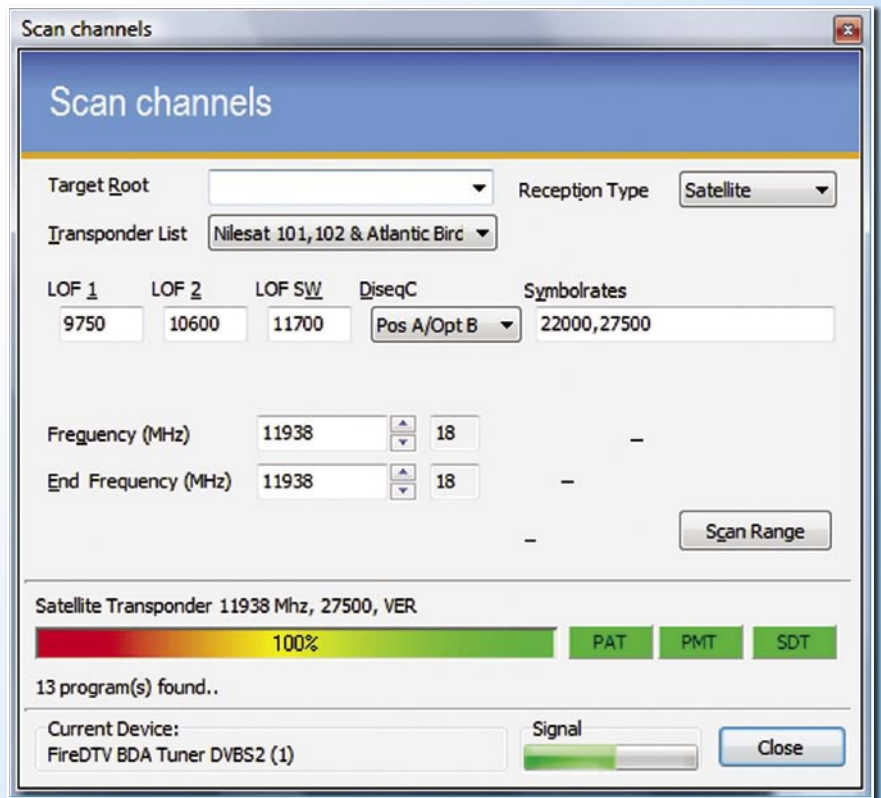


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Sea Tel, Inc.: +1-925-798-7979
Sea Tel Europe: +44 2380 671155
www.cobham.com/seatel

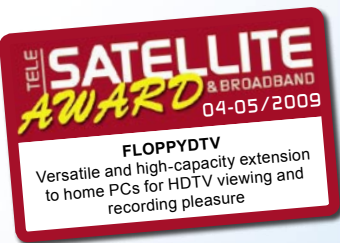
FloppyDTV Perfect DVB-S/2 Solution for the PC

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

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



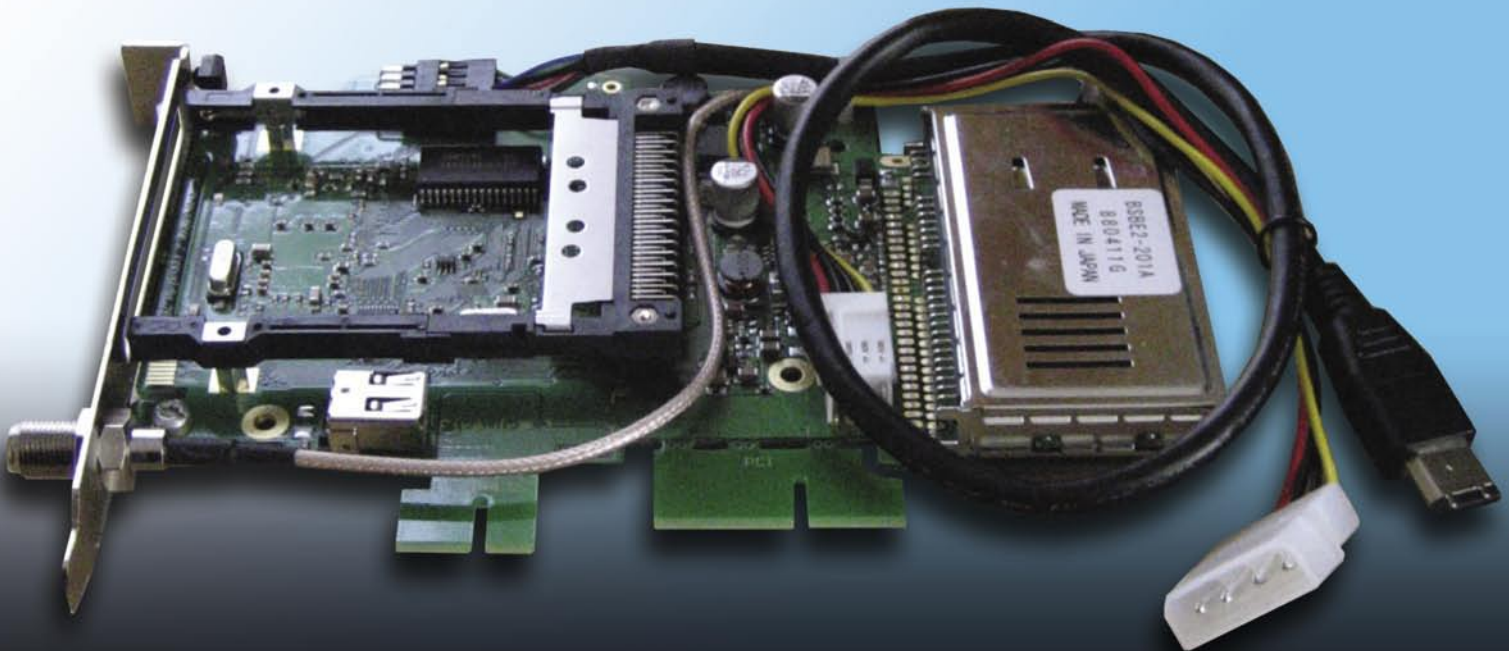
Transponder scan on NILESAT 7° West |



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

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

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



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V-Box II

- 99 Memories
- Controlled by Receiver
- 3 Digit LED Display
- Full Protective Design
- Optional Remote Control
- Software Limit Protection



Stand Alone Positioner

EZ-2200

MP880

- 99 Memories
- IR Remote Control
- 3 Digit LED Display
- Software Limit Protection



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satellite
Electronic Systems



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

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

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

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

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

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

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

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

Installation

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



Channel list sorted according to providers |



Channel list sorted alphabetically |



Channel 4 HD with info bar |

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

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

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

Apart from the provided FireDTV Viewer you may also

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

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

Everyday use

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

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

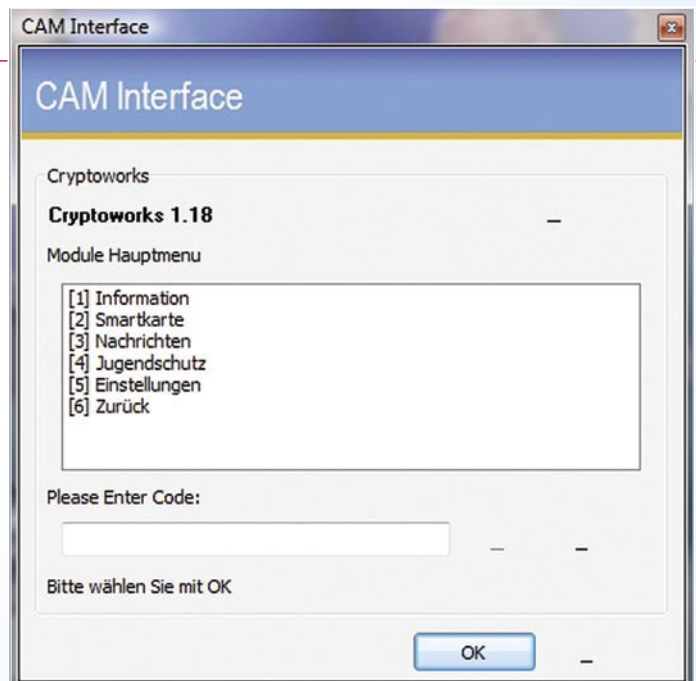
The control bar is located at the lowest end of the FireDTV Viewer and can be used to control the viewer. Altogether it boasts eleven buttons, which are (from

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

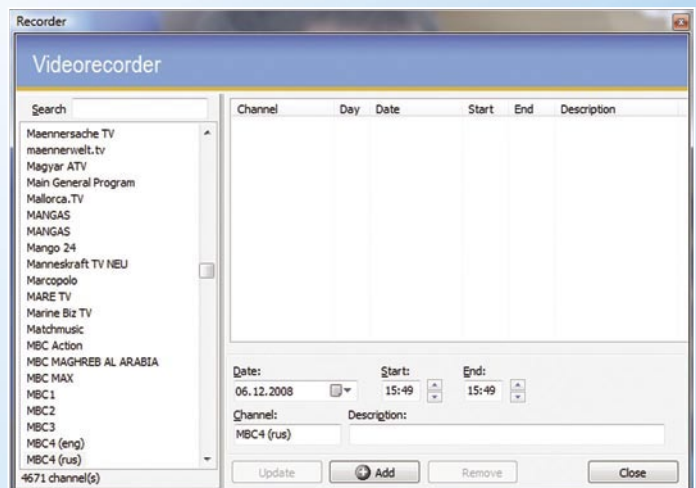
Once the installation process is finished the software is ready to perform its first channel scan. The FireDTV Viewer comes with a pre-stored list of 153 European, Asian and American satellite positions which is quite up-to-date and well sorted. Any required LOF can be used which means that the good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

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

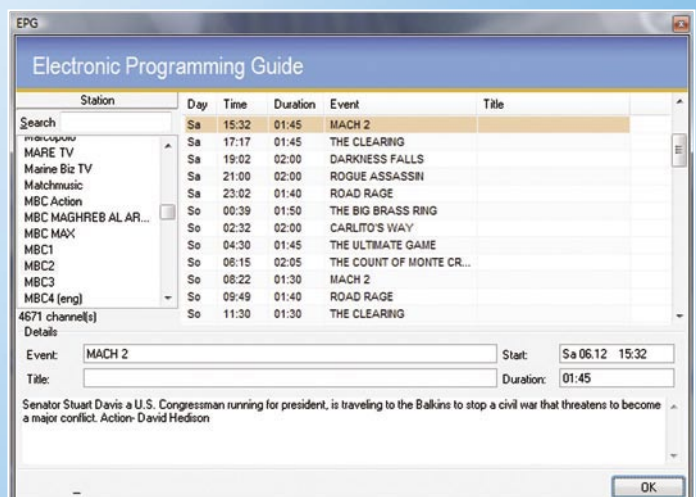
The pre-stored transponder list allows performing a channel scan either across the full frequency range of a satellite or for a restricted range. Alternatively, a single transponder can be chosen for a scan as well. Each scan result is saved separately with an individual time stamp by the software and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



CI menu |



PVR timer function |



Extended EPG |

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

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

Now that the channel list is

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

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

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

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

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

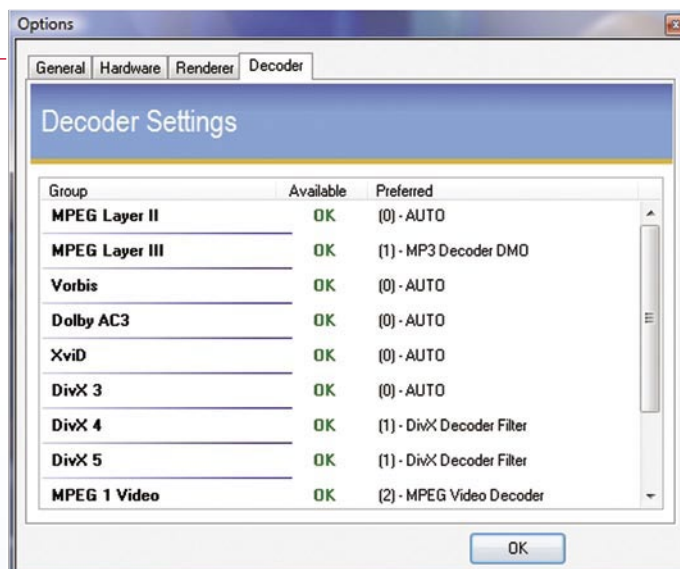
for up to a week in advance, if provided for the selected channel. Naturally you can mark EPG entries for recording with a simple touch of a button – we would not have expected anything less for a premium product anyway.

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

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

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

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



Selection of different codecs!

Expert Opinion



+

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

-

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

TECHNIC

DATA

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

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

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

as an equally capable graphics board.

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

OPENSAT 3000CRCI PVR

Un Piccolo Ricevitore con Grandi Funzioni



L'OPENSAT 3000CRCI PVR è un piccolo ricevitore CI con PVR. Ha dimensioni insolitamente ridotte e pertanto ben si adatta a qualsiasi ambiente. Il pannello frontale presenta un display a segmenti a quattro cifre e, nell'angolo superiore sinistro, il pulsante di stand-by. Tutti gli altri bottoni sono nascosti da uno sportellino.



DIGITAL SATELLITE RECEIVER • 3000 CRCI PVR

DIGITAL SATELLITE RECEIVER • 3000 CRCI PVR

Aperto questo sportellino appaiono i sette pulsanti per gestire il ricevitore senza telecomando, uno slot CI per tutti i normali moduli quali Irdeto, Seca, Viaccess, Cryptoworks o Nagravision, un lettore di card Conax ed un'interfaccia USB.

Il pannello posteriore è progettato altrettanto bene ed ospita il consueto ingresso IF

con uscita passante, 2 prese scart, 4 spinotti RCA per le uscite audio e video e per il controllo 0/12 volt, un'uscita audio digitale ottica, un modulatore UHF, un'interfaccia RS-232 e l'interruttore generale di alimentazione.

Il telecomando in dotazione si impugna piacevolmente e presenta una comoda disposizione dei tasti con indicazioni corrette. Sebbene i menù a video del ricevitore OPENSAT siano

più o meno auto-esplicativi, il costruttore fornisce anche un manuale utente completo in grado di risolvere ogni dubbio che dovesse sorgere. Tratta tutte le funzioni e le opzioni del ricevitore e comprende, ove necessario, schemi e illustrazioni. La qualità costruttiva generale del 3000CRCI è ottima e non abbiamo trovato assolutamente nulla da ridire sul modello ricevuto in prova.

Uso Quotidiano

Questo ricevitore non è dotato di un assistente all'in-

stallazione, il che significa che dovrete iniziare selezionando la vostra lingua preferita per la grafica. Una volta trovata la voce di menù appropriata avrete a disposizione le lingue seguenti: Inglese, Francese, Tedesco, Italiano, Spagnolo, Turco, Polacco, Farsi, Slovacco, Sloveno, Ceco ed Ungherese.

Il menù principale vanta una struttura chiara ed è suddiviso in sei categorie: elenco canali, configurazione antenna e ricerca, impostazioni, strumenti, giochi e PVR. Il primo



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Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0905/hrv/opensat.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0905/ita/opensat.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0905/mag/opensat.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0905/man/opensat.pdf
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OPENSAT

DVB
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passo consiste nel regolare le impostazioni del ricevitore in funzione dell'impianto TV esistente. Sono supportati i sistemi colore PAL, PAL-M, PAL-N, SECAM e NTSC che possono essere selezionati manualmente oppure, scegliendo la funzione "auto", si può fare in modo che il ricevitore si prenda cura di questo aspetto.

I segnali video possono essere emessi come RGB o CVBS, mentre S-Video e YUV non sono stati previsti dal costruttore. Il modulatore UHF è attivabile da una specifica voce di menù scegliendo allo scopo i canali da 21 a 69. Come tutti gli apparecchi DVB, anche l'OPENSAT 3000CRCI è in grado di regolare l'orologio interno in base all'ora trasmessa via satellite. Tuttavia, per essere certi di ottenere l'ora esatta, occorre definire la differenza tra l'ora locale e l'ora GMT. Mentre nella maggior parte dei ricevitori l'utente deve regolare un numero di ore in +/- rispetto a GMT, questo ricevitore mostra un elenco di città molto conosciute per facilitare la scelta pur non conoscendo al 100% lo scostamento in ore.

Un menù separato si occupa della regolazione dell'ora legale, così che non dovrete nemmeno più preoccuparvi di questo aspetto due volte all'anno. Alcune utili impostazioni aggiuntive, tipo opzioni OSD o di cambio canale, completano questa sezione. A questo punto il ricevitore deve familiarizzare con l'impianto di ricezione esistente. Qui dispone di un elenco pre-memorizzato di 44 posizioni satellitari europee molto aggiornate e ben ordinate.

I pulsanti colorati del telecomando possono essere utilizzati per aggiungere in un soffio nuovi satelliti, modificare quelli esistenti o cancellare elementi inutilizzati. Il ricevitore deve anche sapere se è collegato ad un'antenna fissa o motorizzata in quanto supporta i protocolli DiSEqC 1.0, 1.1, 1.2 ed 1.3 (USALS). Grazie alla presenza del DiSEqC 1.1 si possono collegare all'OPENSAT anche antenne multi-fuoco, così come parabole dotate di un comodo motore USALS che richiede solamente le esatte coordinate di installazione per trovare tutti i satelliti disponibili.

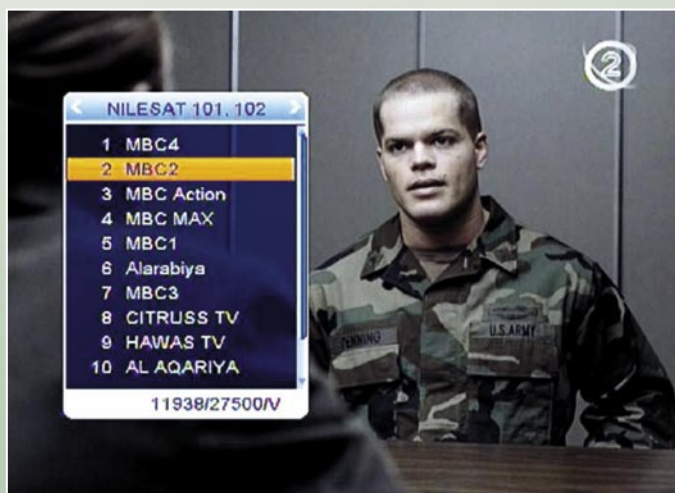
Sono preimpostate diverse frequenze OL per consentire la ricezione, oltre che della banda Ku, anche della banda C. Vengono quindi naturalmente ricevuti e gestiti i segnali in polarità circolare. Sebbene la scelta di frequenze OL disponibili sia impressionante, non è tuttavia possibile immettere manualmente un valore specifico. Il 3000CRCI dispone di 4000 posizioni di memoria canali da riempire con l'offerta dai cieli, sia che vogliate effettuare una ricerca automatica da uno o più satelliti, sia una ricerca manuale dei transponder. In entrambi i casi è possibile limitarsi solamente ai canali in chiaro, alle TV, alle radio o a TV e radio insieme. E' anche attivabile la ricerca per rete.



Elenco canali di NILESAT 7° Ovest



EPG



Elenco canali



OPENSAT



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- Faster processor with recall of last selection used
- New manual carrier configuration mode
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- 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.

FROM TEST TO MEASUREMENT

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or visit our website

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Menù principale – installazione



Ricerca multi-satellite



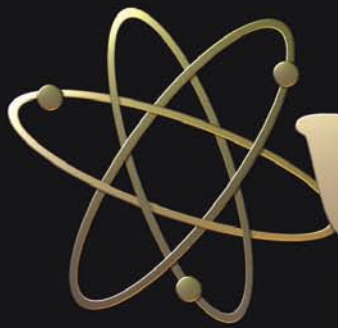
Modifica elenco canali



Barra Info



OPENSAT



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DIGITAL

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SS **PT. Subur Semesta**
AN ELECTRONIC COMPANY

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Tegal Alur, Jakarta Barat 11820
Tel: (62-21)-5559733 Fax:(62-21)-5559805
email: subursmt@gmail.com
<http://subursmt.com>
INDONESIA



Visione multi-immagine con 9 canali

La modalità integrata di ricerca alla cieca (blind scan) è un piccolo extra che consente di trovare i transponder non ancora presenti nell'elenco memorizzato.

Abbiamo provato una ricerca standard su HOTBIRD 13° Est e l'OPENSAT ha impiegato 3 minuti e 20 secondi trovando 1235 canali TV e 456 stazioni radio. Attivando la ricerca alla cieca sullo stesso satellite il ricevitore ha terminato dopo poco meno di cinque minuti ed ha rilevato 1132 canali TV

e 431 stazioni radio. Entrambi i risultati sono molto soddisfacenti considerando che si trattava di modalità automatica.

Per la ricerca manuale i singoli transponder possono essere selezionati, modificati, ordinati, aggiunti o cancellati con un singolo tasto. Anche in questo caso i pulsanti colorati del telecomando rendono questo processo un gioco da ragazzi. L'unica cosa di cui si sente la mancanza è l'immissione manuale dei PID che non è supportata da questo ricevitore.

Tenendo presente che la memoria canali è limitata a 4000 posizioni, ha davvero senso pensare di sistemare l'elenco canali secondo le proprie preferenze personali e, soprattutto, considerare seriamente di cancellare i canali che non si guarderanno mai. Tutto ciò può essere svolto entrando nella prima voce di menù che rivela le diverse opzioni di gestione dell'elenco. E' superfluo ricordare che non solo l'elenco TV, ma anche quello radio può essere sistemato allo stesso modo.

Per tutti i DXer: potrebbe farvi piacere sapere che l'intero elenco canali può essere cancellato con un singolo tasto senza dover azzerare le altre configurazioni del ricevitore.

Durante le operazioni di modifica dell'elenco è possibile visualizzare tutti i canali oppure, per comodità, solamente quelli di singoli satelliti.

Di nuovo, i tasti colorati del telecomando vengono in aiuto per aggiungere i canali ad uno dei diversi elenchi di preferiti (dal nome impostabile liberamente), per cancellare, spostare o bloccare altri con PIN in modo che i piccoli membri della famiglia non abbiano accesso a contenuti non adatti a loro.

I canali in elenco possono anche essere contrassegnati per essere saltati durante lo zapping avanti e indietro. Nel corso delle operazioni di modifica, l'immagine video del canale corrente è sempre presente in una finestrella sulla parte destra dello schermo.

Il tasto rosso del telecomando apre una finestra di



ricerca dove digitare il nome del canale desiderato, mentre sulla sinistra delle tastiera virtuale appaiono tutte le voci corrispondenti.

Questa funzione sarebbe già di per sé un dono divino, ma OPENSAT si è spinta ulteriormente avanti implementandola in modo davvero molto comodo.

L'ottima impressione generale di questo ricevitore è completata da una funzione di zoom, da un decoder teletext integrato e dalla visualizzazione multi-immagine di nove canali.

OPENSAT utilizza un sintonizzatore dalla soglia piuttosto bassa che è risultato in grado di catturare ed elaborare anche i segnali più deboli come quelli da NILESAT 7° Ovest o ASTRA 2D 28° Est.

Anche la prova di ricezione SCPC è stata agevolmente superata sul nostro transponder di prova su TURKSAT con symbol rate di soli 2400 KS/sec che non ha provocato alcun problema al 3000CRCI.

L'interfaccia CI integrata ha

funzionato tranquillamente accettando tutti i moduli che vi abbiamo inserito. Anche il lettore integrato di card Conax si è comportato brillantemente con la nostra scheda di prova.

L'interfaccia RS-232 può essere utilizzata per aggiornare il sistema operativo o per installare un nuovo elenco canali. A questo scopo OPENSAT fornisce un specifico programma per PC che è anche compatibile SatcoDX e può pertanto essere utilizzato per fornire al ricevitore dati di canali e transponder aggiornati all'istante.

PVR

Nel caso vi stiate chiedendo per quale motivo l'OPENSAT 3000CRCI PVR comprenda la sigla PVR nel proprio nome, ecco la risposta: sta tutto nell'interfaccia USB 2.0 sul pannello frontale che trasforma questo ricevitore OPENSAT in un PVR a tutti gli effetti.

Qualsiasi tipo di disco fisso portatile, scheda o chiavetta di memoria può essere collegata a questa porta e verrà riconosciuta dal ricevitore

in pochi secondi. Da quel momento in poi risulteranno attive tutte le funzioni PVR quali registrazione dell'evento in corso, riproduzione dei file memorizzati e, naturalmente, visione differita.

La prossima volta che suonerà il telefono mentre siete nel bel mezzo di un film potrete premere Pausa, rispondere al telefono e poi riprendere da quella stessa scena non appena avrete terminato la telefonata.

Abbiamo naturalmente provato tutte le funzioni PVR e non abbiamo riscontrato alcun difetto. Si possono impostare otto voci di timer che permettono di registrare eventi giornalieri o settimanali senza ulteriori interventi.

Oltre alla registrazione e alla riproduzione di contenuti TV e radio, il ricevitore comprende anche un lettore MP3 ed un visualizzatore di immagini per mostrare agli amici le foto delle vacanze direttamente sullo schermo TV. Oppure potrete usare il ricevitore come juke-box per la vostra prossima festa.

Gli aggiornamenti software possono avvenire anche tramite l'interfaccia USB: tutto ciò che occorre fare è scaricare il file appropriato dal sito web del costruttore, copiarlo su una chiavetta di memoria ed avviare sul ricevitore il processo di aggiornamento.

L'unico vero inconveniente dell'OPENSAT 3000CRCI PVR è il fatto che la memoria esterna possa essere collegata solamente al pannello frontale. Ciò significa che lo sportellino deve restare costantemente aperto rivelandone l'interno che, con tutti i suoi pulsanti e feritoie, non appare altrettanto elegante di quando è chiuso.

Ciò che invece ci è molto piaciuto è la facilità con la quale le registrazioni possono essere modificate su PC o masterizzate su DVD. Grazie alle memorie esterne portatili è davvero semplice collegarle al PC senza più doversi preoccupare di trasferire enormi files da un dispositivo all'altro.



OPENSAT

Il Giudizio dell'Esperto

+

L'OPENSAT 3000CRCI PVR è un completo ricevitore PVR che si adatta a qualsiasi ambiente ed è alla portata di tutti i membri della famiglia grazie alla sua semplicità d'uso. Il sistema operativo è progettato in modo chiaro e non ha avuto problemi durante la nostra prova. Anche i componenti hardware utilizzati dall'OPENSAT non lasciano affatto a desiderare. Grazie al PVR, al lettore MP3 ed al visualizzatore di immagini, il 3000CRCI è un ricevitore estremamente versatile che farà la sua figura in qualsiasi mobiletto grazie alle dimensioni contenute.



Thomas Haring
TELE-satellite
Test Center
Austria

-

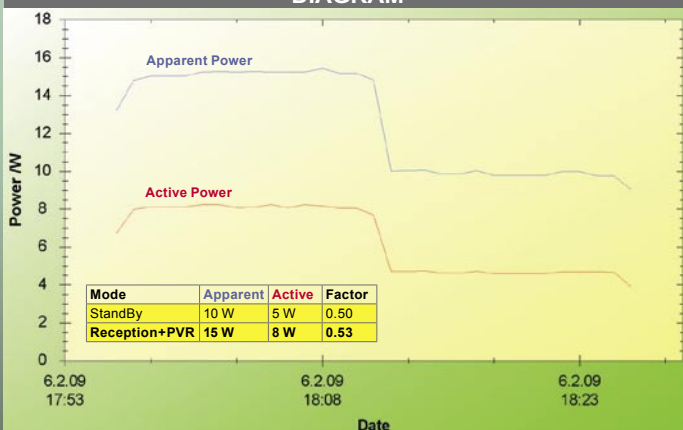
L'interfaccia USB sul pannello frontale è leggermente scomoda. Spostarla sul retro, o meglio aggiungerne una seconda sul pannello posteriore, sarebbe una buona idea.

TECHNIC

DATA

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

ENERGY DIAGRAM



Primi 15 minuti: normale operatività con cambi canale, registrazioni, riproduzioni, ecc. Successivi 15 minuti: stand-by.



Menù principale – PVR |



Gestore PVR |



MP3 Jukebox |



Ricezione SCPC da TURKSAT 42° Est



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DTTV: DISTRIBUTION IN DVB-T

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DTT

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DTTV

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

TELE SATELLITE AWARD & BROADBAND
02-03/2009

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

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TOPFIELD



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

TELE SATELLITE AWARD & BROADBAND
02-03/2009

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

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DIZIPIA



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



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



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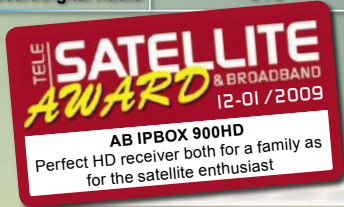
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Manufacturer	AB-COM
Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR Receiver for DVB-S, DVB-S2, DVB-C and DVB-T
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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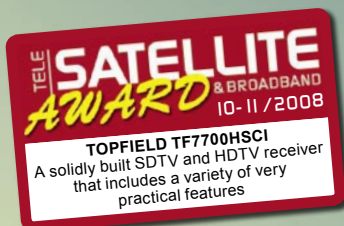
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AB-COM



Manufacturer	Topfield
Website	www.topfield.co.kr
Function	HDTV PVR Satellite Receiver
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/topfield.pdf



TOPFIELD



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



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Czech	Česky	www.TELE-satellite.com/TELE-satellite-0811/ces/sonicview.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/sonicview.pdf



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



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/venus.pdf





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

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08-09/2008

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

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

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06-07/2008

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

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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

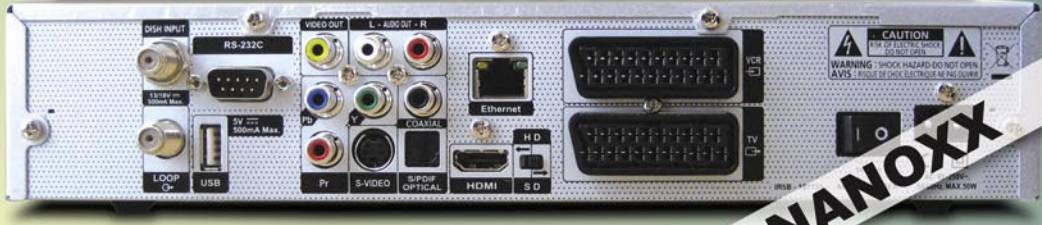
NANOXX 9500HD
Small enclosure, superbly crisp picture, extremely fast channel search, and connection for HDD

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



NANOXX



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

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04-05/2008

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

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



OPENSAT



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

TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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TOPFIELD



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

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

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AB-COM



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

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ARION AF-4000HDCI
A receiver that will make any newbie happy as well as please any pro with its endless possibilities

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ARION

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

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Fast and easy to use receiver for FTA reception with a very sensitive tuner

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INFOSAT

Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Professional Digital Satellite Receiver with 2 CI Slots
DVB-S2/LAN	- / -
Channel Memory	!
DiSEqC	-
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P:84% Q:58% playing
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Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Digital Satellite Receiver FTA
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Manufacturer	ABC Biznis
Website	www.opensat.info
Function	Fast satellite receiver with two CI slots
DVB-S2/LAN	- / -
Channel Memory	6000
DiSEqC	1.0 / 1.2
S-Video/HDMI	- / -
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OPENSAT



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

ab-com

Alta qualità ad un prezzo ragionevole – così si può descrivere la 'mission' del produttore di ricevitori slovacco AB-COM, che è entrato nel mercato nel 2005 coi suoi set-top box basati su sistema Linux. Il ricevitore SD 200S è stato da allora un successo istantaneo e viene ancora venduto in gran numero oggi, dal momento che viene valutato come uno dei migliori ed una delle migliori offerte di ricevitori Linux disponibili sul mercato. Il direttore generale dell'azienda Juraj Masaryk ci ha fornito un breve riassunto del passato di AB-COM ed una prospettiva di cosa il futuro possa riservare per la compagnia.



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■ I locali di AB-COM in Slovacchia. Davanti possiamo vedere un furgone per le consegne.

In senso stretto, AB-COM celebra già il suo 20° anniversario quest'anno, ma l'azienda ha attraversato cambiamenti sostanziali nel passato ed in realtà l'anno 1992 è considerato come il punto di partenza di AB-COM come azienda satellitare.

Fino a quel momento AB-COM era stato un distributore di PC fondato da due partner. Nel 1992 Juraj Masaryk si unì al team. In precedenza era stato impiegato presso un rivenditore satellitare come manager degli acquisti e vendite, ma decise ad un certo punto di implementare la proprie idee. Juraj Masaryk ricevette inizialmente una quota del 25 per cento dai soci esistenti di AB-COM, ed iniziò la sua carriera presso la società espandendo gli affari della società per includere anche i componenti satellitari. Tanto per cominciare, AB-COM



■ Juraj Masaryk è un ingegnere qualificato e conduce AB-COM come direttore generale. In tutta modestia egli si definisce direttore di acquisti e vendite ed è costantemente alla ricerca di modi per ottimizzare i processi commerciali. Qui lo vediamo mentre mostra lo schema organizzativo per i 29 membri dello staff di AB-COM. "Alcuni impiegati coprono diverse aree di responsabilità e lo schema organizzativo dettaglia quanto tempo essi investono nei vari compiti," spiega Juraj. "Ogni settimana tutti i rapporti delle attività vengono raccolti ed analizzati." Grazie a questa intelligente struttura organizzativa AB-COM è ben piazzata per una crescita futura.





■ Vista del negozio AB-COM. I clienti al dettaglio possono acquistare componenti satellitari proprio presso i locali di AB-COM. Il direttore delle vendite Peter Hrnko è uno dei cinque membri dello staff nel negozio e qui lo vediamo mentre presenta un ricevitore AB-COM. Mentre la produzione di ricevitori satellitari forma il 70 per cento del fatturato totale, AB-COM rifornisce anche 3000 rivenditori in Slovacchia e Repubblica Ceca di tutti i componenti satellitari addizionali.

offriva componenti MMDS per la televisione terrestre, che è un segmento tuttora esistente, ma con importanza piccola o quasi nulla in rapporto al mercato globale.

Oggi Juraj Masaryk possiede il 60 per cento di AB-COM, mentre i due partner originali sono diventati personaggi inattivi che lasciano gli affari quotidiani a Juraj. "AB-COM punta ora solamente sui ricevitori satellitari," ci dice Juraj Masaryk. È qui che vede i futuri potenziali ed è qui che può realizzare le sue idee. All'inizio AB-COM importava i ricevitori da diversi produttori, "ma le prestazioni non erano all'altezza dei miei standard," ricorda Juraj Masaryk. "desideravo vedere realizzarsi la mia propria visione."

Ma ancora, questa era solo una delle tante motivazioni per diventare un produttore di ricevitori. "Ho sempre creduto che Linux sarebbe stato una grande opportunità per i ricevitori satellitari," dice Juraj Masaryk, e così affrontò l'utilizzo dei vantaggi offerti da Linux per



■ Anche con i controlli di qualità più rigorosi effettuati sul posto, non potete mai eliminare completamente la necessità di effettuare riparazioni. René Hubinský è uno dei quattro ingegneri di supporto software.

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mettere in pratica le proprie idee. Uno degli strumenti a questo scopo è il software del ricevitore, che è sviluppato in casa dagli ingegneri software di AB-COM. "Il software per i ricevitori SD è già completamente sviluppato, e per i modelli HD sta attualmente ricevendo la lucidatura finale." In futuro, i ricevitori HD prodotti da AB-COM si caratterizzeranno per una versione di Enigma HD AB dedicata.

Il terzo e - alla fine - decisivo argomento per la produzione di ricevitori AB-COM è la famosa parola Q. "La qualità è a centro della nostra attenzione," afferma Juraj, ma come potete garantire che rimanga alta? Naturalmente, Juraj trova ugualmente una soluzione per questo: I componenti vengono prelevati da un produttore coreano come parti cosiddette SKD (semi knock down - prodotto parzialmente smontato), assemblate da AB-COM e testate individualmente. Juraj ci mostra l'etichetta sul retro di un ricevitore AB-COM: "Lo potete leggere proprio qui: Testato in EU." Questo è il modo in cui AB-COM garantisce che ogni singolo prodotto funzioni secondo i precisi standard dell'azienda.

Ma non si ferma con la produzione. Dove vengono veramente venduti i ricevitori AB-COM? Tomáš Kopecký è il direttore delle vendite per l'Europa e ci dice che "in quasi tutti i paesi europei cooperiamo con distributori nazionali." Dando un'occhiata alla mappa del mondo Tomáš aggiunge orgogliosamente "abbiamo rappresentanti anche in Nord America." Naturalmente esistono un po' di punti bianchi sulla mappa, come Francia, Portogallo, Turchia, Gran Bretagna e Nord Africa. "Siamo ancora alla ricerca di distributori per questi mercati," Tomáš aggiunge in un inglese impeccabile e dice "Non vedo l'ora di entrare in contatto con dei distributori in questi paesi." Juraj spiega che "naturalmente possiamo anche adattare i nostri ricevitori ai requisiti di mercati individuali. Proprio adesso stiamo lavorando su un progetto per il mercato ucraino."

"Al momento circa il 30 per cento delle vendite è composto da ricevitori SD, con la maggioranza del 70 per cento di apparecchi HDTV." Osservando il successo del modello AB-COM 200S Tomáš spiega che "da un punto di vista strettamente economico questo è il nostro prodotto migliore: offre una qualità al top con tutte le funzioni richieste ad un prezzo ragionevole." Juraj afferma che "questo è esattamente il motivo per cui stiamo lavorando sul lancio di un modello HD seguendo lo stesso concetto."

Nel momento in cui avrete questo

■ Vista di un'area nell'officina di assemblaggio: Qui è dove i componenti ottenuti esternamente vengono assemblati da 16 impiegati, fino a quando un ricevitore AB-COM finito può essere testato individualmente per il comportamento.



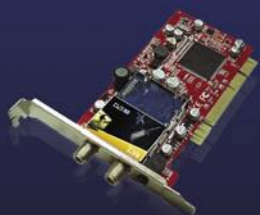
■ Il direttore del magazzino Michal Valent è impegnato a sistemare i ricevitori AB-COM finiti di recente nel magazzino e a prepararli per la spedizione come gli ordini arrivano.



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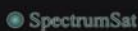
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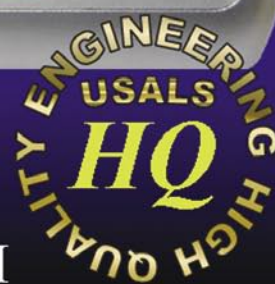
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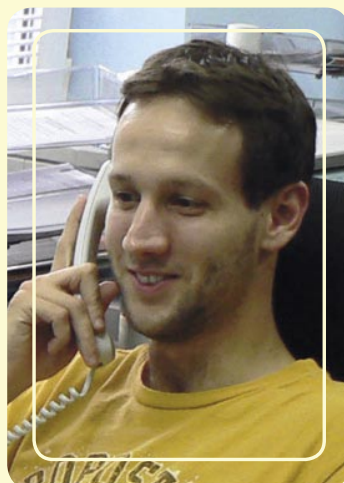
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■ Il direttore delle vendite Radovan Cifra si occupa dei clienti all'ingrosso in Slovacchia.



■ Halo Juraj è il direttore delle vendite per i clienti all'ingrosso nella Repubblica Ceca.



■ Il direttore delle vendite per l'Europa Tomáš Kopecký è il punto di contatto per i distributori al di fuori della Slovacchia e Repubblica Ceca. "Saremmo più che felici di accogliere nuovi distributori nazionali nella nostra rete!"



■ Juraj Bobula si occupa dei clienti all'ingrosso in Slovacchia.

numero tra le mani il lancio sul mercato dovrebbe essere proprio dietro l'angolo e ci sia aspetta che il prodotto finale sia molto piccolo, preveda un lettore di smartcard come pure il sistema operativo realizzato in azienda Enigma HD AB.

"Per l'anno finanziario 2009 prevediamo una crescita delle vendite dei nostri ricevitori HD in modo da raggiungere una quota dell'80 per cento, che raggiungerà nell'anno 2010 una quota del 90 per cento," Tomáš interpreta le proiezioni delle vendite per i prossimi anni. "Il ricevitore AB-COM 350 Prime, per esempio, prevede un sintonizzatore intercambiabile ed è un favorito dei provider di TV via cavo," Juraj sottolinea un altro sviluppo.

Tuttavia, il DVB-C è solamente uno dei diversi fulcri presso AB-COM. Juraj guarda ancora più avanti nel futuro quando rivela che "appena il progetto di Enigma HD AB sarà terminato, i nostri ingegneri software si dedicheranno allo sviluppo di Enigma IPTV AB."

Juraj Masaryk può essere più che felice per come gli affari si sono sviluppati. "Dal 2007 al 2008 abbiamo potuto testimoniare un incremento di circa il 30 per cento del fatturato, e l'aumento per il 2009 è previsto che raggiunga il 20 per cento," Juraj afferma orgogliosamente dopo pochi click nell'applicazione software per la gestione contabile dell'azienda.

"Il fatturato totale ha raggiunto quasi 10 milioni di euro nel 2008, e naturalmente questo livello può essere superato nel 2009," Juraj continua con ottimismo e ci informa anche che i nuovi locali per l'azienda sono in costruzione



■ Juraj Masaryk è un vero entusiasta satellitare – anche quando non è al lavoro. Qui lo vediamo sul balcone della sua casa vicino ad un'antenna multi-LNB.

mentre parliamo. "In questo modo c'è abbastanza spazio per future espansioni!"

Una cosa è sicura: ad AB-COM piace fare piani per il futuro. E ciò significa che

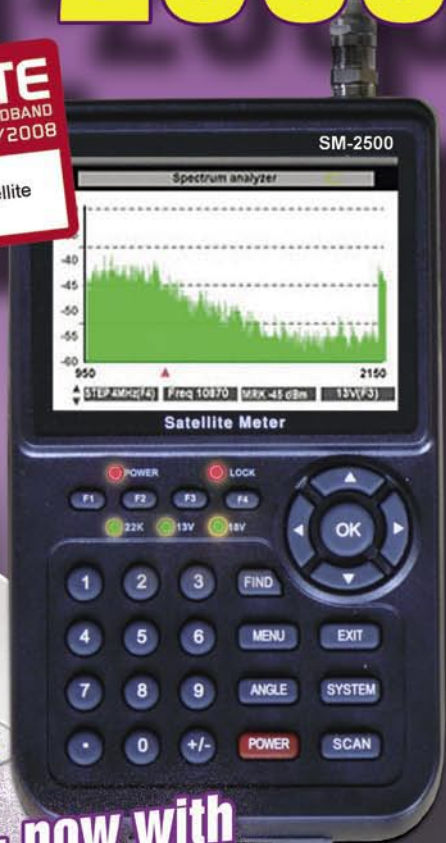
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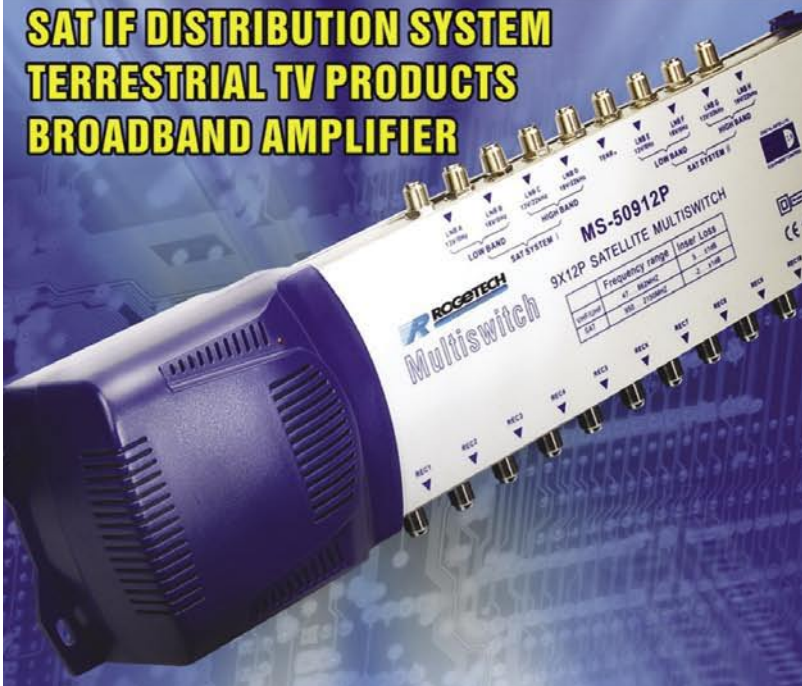
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■ AB-COM attribuisce grande importanza ad una formazione continua: Una volta all'anno i rivenditori vengono aggiornati sugli sviluppi più recenti in un corso. Questo evento di un giorno è patrocinato da AB-COM e fornisce una gradita occasione affinché i rivenditori e AB-COM si conoscano meglio l'un l'altra.

Il capo della manutenzione Martin Durinský utilizza il corso come piattaforma per dimostrare le nuove caratteristiche dei ricevitori AB-COM.



AB-COM si sposterà nella nuova costruzione l'1 ottobre 2009 – l'immagine mostra il disegno dell'architetto. "Siamo diventati troppo grandi per l'attuale costruzione," spiega Juraj. La squadra edile sta lavorando al massimo così che l'officina di produzione col soffitto di 6 metri ed uffici attaccati sia completato il più presto possibile.



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Topfield, Marchio di Prestigio

Alexander Wiese

Da molti anni Topfield è un attore affermato nel mercato dei ricevitori satellitari high-end. Il nuovo super apparecchio TMS rafforzerà ulteriormente la posizione di Topfield nel segmento di qualità elevata. TELE-satellite voleva sapere qualcosa in più sulla strategia dell'azienda per il futuro ed ha incontrato Dong Hoon Suk del reparto marketing Topfield.

Nel complesso Topfield ha una gamma di oltre 200 diversi ricevitori satellitari ritagliati su misura per le esigenze dei singoli mercati. Ma naturalmente i responsabili dell'azienda sanno benissimo che il grande numero di ricevitori non è di per sé indicatore di successo.

Il responsabile Marketing Dong Hoon Suk accanto ad un'esposizione dei ricevitori Topfield.

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In questo palazzo di sette piani nella parte meridionale di Seul lavorano 170 membri dello staff Topfield. 100 persone sono impiegate nei reparti software ed hardware, mentre 70 si occupano di amministrazione, vendite e marketing. Gli impianti di produzione sono situati fuori Seul. Sul tetto dell'edificio, di proprietà di Topfield, sono installate numerose antenne satellitari. ■



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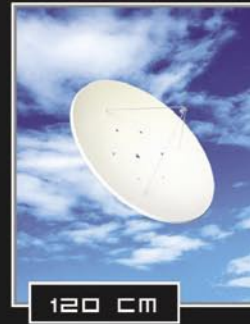
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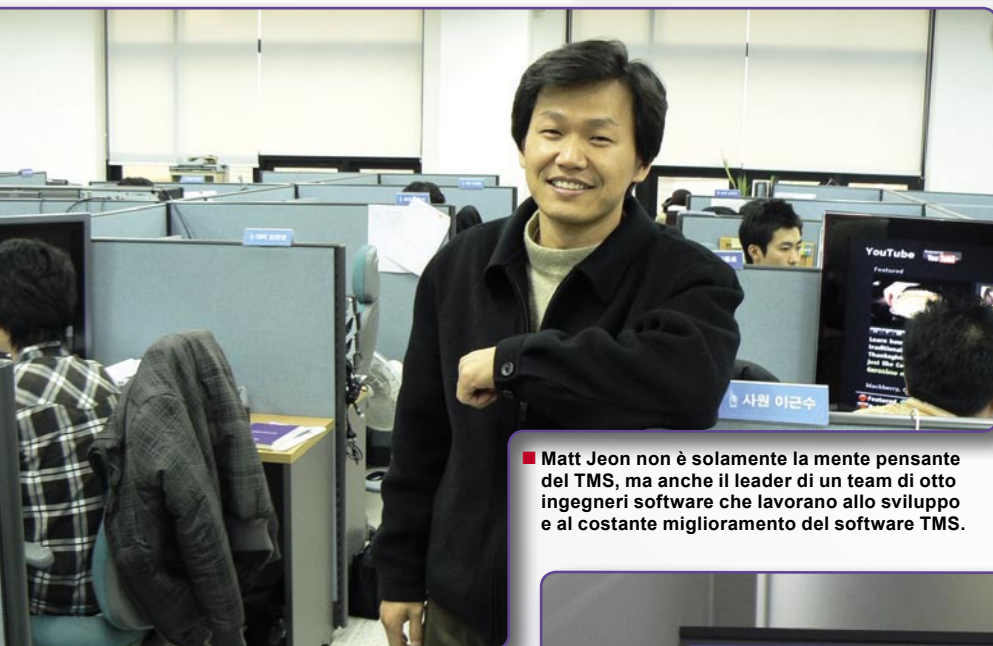
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“Dobbiamo dimostrare di essere in grado di raggiungere le massime prestazioni”, spiega Dong Hoon Suk sulla strategia di Topfield. “Con il nuovo TMS non dobbiamo solamente dimostrare la qualità tecnica che siamo capaci di ottenere, ma anche un nuovo livello di utilizzabilità”. Sarà un apparecchio di alto livello con possibilità che finora sono esistite solo nella nostra immaginazione. “Il TMS può anche essere utilizzato per servizi commerciali”, enfatizza Dong Hoon Suk, “ed il collegamento ad Internet permette di



■ Il responsabile di prodotto Jimmy Lee illustra la connettività dell'innovativo TMS.



■ Matt Jeon non è solamente la mente pensante del TMS, ma anche il leader di un team di otto ingegneri software che lavorano allo sviluppo e al costante miglioramento del software TMS.

sfruttare applicazioni totalmente nuove ampliando in modo incredibile la sfera di utilizzo di un ricevitore satellitare”.

Trattandosi di un prodotto di punta, Topfield lo lancerà inizialmente solo su mercati selezionati: “La Germania è uno di questi mercati, insieme ad Olanda, Belgio e Svizzera”, continua Dong Hoon Suk, “I clienti di questi mercati sono particolarmente esigenti”. Ciò che troviamo sorprendente è che Topfield offrirà il TMS anche in Russia: “Pensiamo che laggiù vi sarà una domanda molto forte per il TMS”, ribatte Dong Hoon Suk. Jimmy Lee è il responsabile di prodotto del TMS. Il suo compito è quello di coordinare gli ingegneri software con l'hardware e la produzione e di discutere con il reparto marketing le funzioni richieste dal nuovo super ricevitore. Ci rivela qualche dettaglio sul piano di produzione: “Entreremo sul mercato con un volume iniziale di 3000 ricevitori TMS”, spiega Jimmy Lee, “in modo da valutarne la reazione”.

Diversi mercati vedranno diverse varianti del TMS. “La natura dei giochi preinstallati sarà diversa, ad esempio”, prosegue Jimmy Lee. “Il browser



■ Il caporedattore di TELE-satellite Alexander Wiese in visita a Topfield per la presentazione del TMS.

web integrato nel TMS, che all'inizio potrà essere utilizzato solo per accedere a determinati servizi, diventerà un browser a tutti gli effetti nel secondo trimestre 2009”, ci spiega Jimmy Lee rivelando qualche ulteriore dettaglio sui prossimi passi dello sviluppo software del TMS.

Infine, volevamo sapere come fosse nato il progetto del TMS. Tutto si deve al progettista software Matt Jeon che presentò l'idea di questo nuovo ricevitore multimediale nel Febbraio 2008. Si formò quindi un team di otto ingegneri software che proseguì con l'obiettivo di creare il primo prototipo per Agosto 2008. Il team TMS era completamente “in quarantena” dal resto dell'azienda svolgendo il proprio lavoro nella massima segretezza.

Una volta assemblati, i primi prototipi furono presentati ai colleghi ed ai distributori su larga scala. Il pubblico avrà la possibilità di mettere per la prima volta le mani sul TMS all'esposizione ANGA di quest'anno.

Il TMS viene fabbricato in Corea e per Topfield rappresenta una vetrina per esporre lo stato dell'arte delle possibilità dei ricevitori satellitari. Ancora una volta Topfield offre una prova concreta che il proprio slogan “Leader della Casa Multimediale” è ben guadagnato e meritato dimostrando di proseguire il lavoro quotidiano verso la perfezione della tecnologia.



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Worldwide Satellites in Toronto

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

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

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

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

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



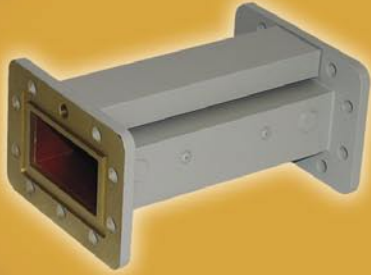
■ GTA Electronics can be found here in this office complex as a satellite dealer for end users and Worldwide Satellites as a satellite wholesaler. Pearson International Airport is located roughly 1 km behind the office.



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

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

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

We also wanted to know more about

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

Worldwide Satellites focuses only on FTA receivers and also offers LNBs and multiswitches of every size. "We get our

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

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



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Aluo-sat Conosce chiunque!

Una persona impegnata nel campo satellitare in Cina difficilmente non si imbatte prima o poi in Luo Shi Gang. Non solamente per il fatto che è da molti anni un distributore in Cina di TELE-satellite, ma perché è una figura di alto profilo anche in molti altre aree satellitari. Dal momento che nel 2009 la Cina sta entrando nell'era del DHT adesso è un buon momento per andare a trovare Luo Shi Gang nel suo ufficio a Shenzhen.

Luo ha chiamato la sua azienda Aluo-sat per una semplice ragione: nel dialetto cantonese, parlato nella Cina meridionale, una 'a' è spesso prefissata al primo nome di una persona. Così Luo diventa Aluo.

Originariamente, Luo proviene da Sichuan nel sudovest della Cina. Ha studiato ingegneria elettrotecnica ed ebbe il suo primo impiego presso una azienda che produceva componenti elettronici per l'esercito Cinese a Lanzhou City nel nordovest. Tra le altre cose, il suo primo datore di lavoro produceva anche apparecchiature satellitari.

Luo sperimentò una genuina ricezione satellitare per la prima volta quando ricevette i segnali da EKRA a 99° est, che trasmetteva a quel tempo dalla Russia

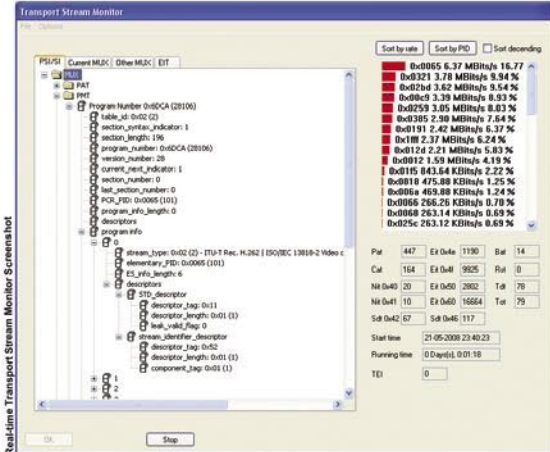
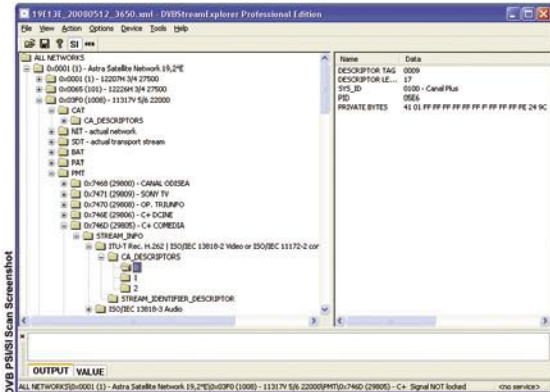
I membri dello staff di Aluo-Sat Lou Jun (sinistra) e Luo Shi Gang (destra) sul tetto. Perché Luo Shi Gang ha scelto l'ultimo piano per il suo ufficio? Probabilmente l'avete indovinato: Voleva essere sicuro che i cavi tra le antenne ed i ricevitori fossero corti. E perché è felice che ci sia una balaustra piuttosto dominante? Ebbene, la ricezione satellitare privata è ancora proibita in Cina ed in questo modo le antenne di Luo non possono essere viste dall'esterno. In questa immagine possiamo vedere due antenne per la banda C – quella sul retro è motorizzata, quella davanti è fissa.

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- Parsing of SST, MGT, TVCT, CVCT, RRT, EIT, ETT, DCCT and DCSCCT tables, including most descriptors.

DVB DSMCC scanning

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

DVB MPE scanning

- Scanning of DVB MultiProtocol Encapsulation (MPE) as defined in ISO13818-6 and EN 301 192.
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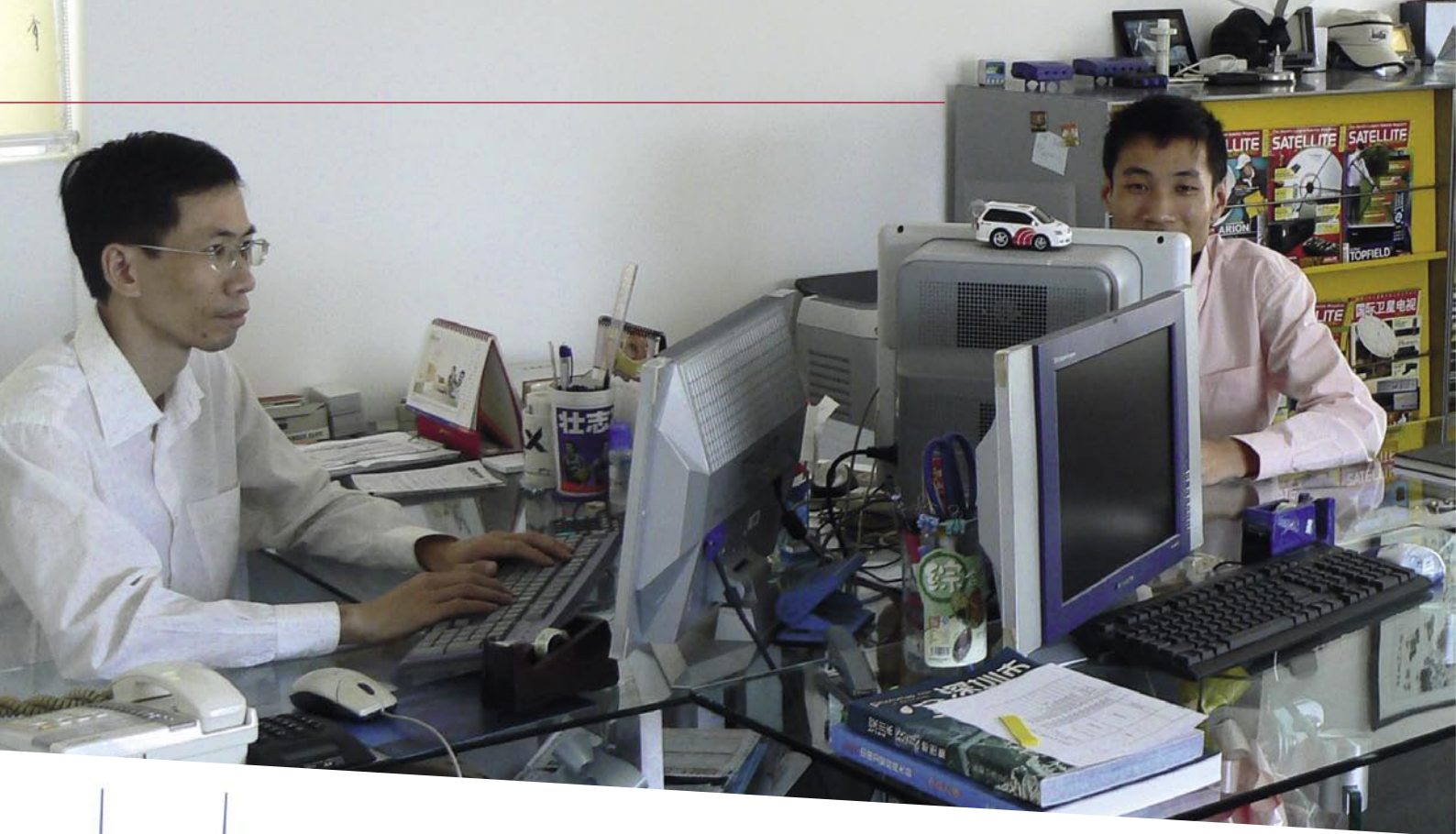
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nella gamma UHF a 714 MHz. A partire da quel momento è stato un fanatico della ricezione satellitare. Iniziò presto a scrivere articoli per il settimanale 'Electronics Newspaper', che a quei tempi era l'unica pubblicazione disponibile sull'argomento della tecnologia satellitare. Il numero delle collaborazioni continuò a cre-

scere senza interruzioni ed il suo lavoro comportò anche di incontrare sempre più addetti ai lavori satellitari. Alla fine, nel 1995 pose le basi per i suoi affari: "Assieme a mia moglie ho fondato Aluosat a Shenzhen nel 1995." Oltre al suo lavoro come giornalista tecnico iniziò anche a lavorare come consulente.

Oggi impiega uno staff di sette persone: "Mia moglie si occupa della contabilità, tre ingegneri si fanno carico delle richieste tecniche, un impiegato conduce un negozio satellitare a Hong Kong ed un'altra persona è dedicata alle vendite e distribuzione." Aluo-sat ha anche iniziato a distribuire prodotti di fornitori di qualità selezionata quale Changhong per la TV digitale terrestre (DMB-TH), i cui canali vengono trasmessi da Hong Kong, ma possono essere ricevuti perfettamente anche a Shenzhen.

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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0905/sve/aluosat.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0905/tur/aluosat.pdf

Available online starting from 27 March 2009

Luo Shi Gang nel suo ufficio all'ultimo piano di un edificio di appartamenti nel cuore di Shenzhen. Non possiamo negare che egli sia il distributore ufficiale della rivista TELE-satellite nella regione. ■



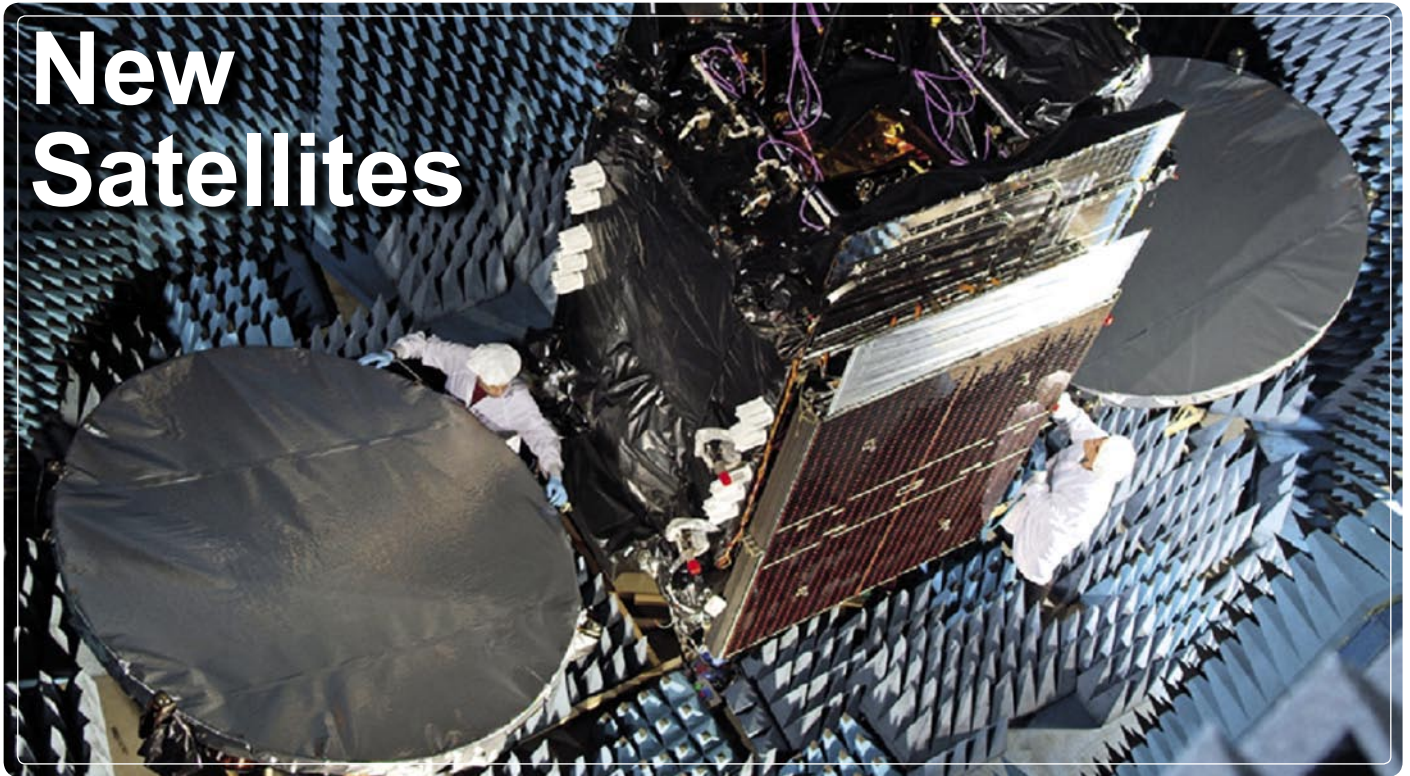
rivenditori," Luo spiega la sua strategia d'affari. "Ma quello che mi soddisfa maggiormente è lavorare come consulente." Luo viaggia molto e visita molte fiere ed esibizioni di argomento satellitare. "In questo modo posso incontrare persone importanti ed allargare la mia rete personale," afferma Luo.

Luo è una figura di spicco in molte regioni e segmenti. "Mi piace dare una mano quando si tratta di stabilire dei legami con il mondo degli affari satellitari Cinesi."

L'alta balastra assicura che le antenne restino nascoste. Sullo sfondo si può vedere il profilo di Shenzhen. ■



New Satellites



Edited by
Sylvain Oscul

EUTELSAT W2A

April-May 2009

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

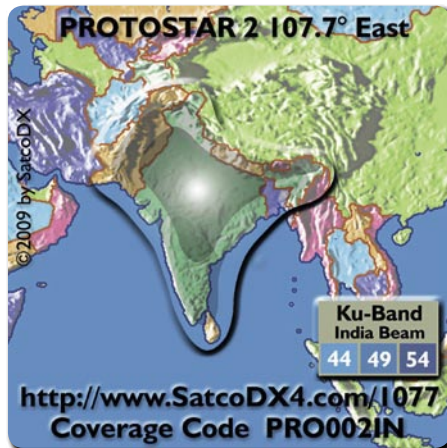
This satellite is also a special joint venture with ASTRA, The S-band (2.0 and 2.2 GHz), which represents a new frequency band for both SES and Eutelsat, provides a set of frequencies optimized for supporting a wireless distribution network for delivering video and other services to mobile devices, including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



PROTOSTAR 2

May 2009

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

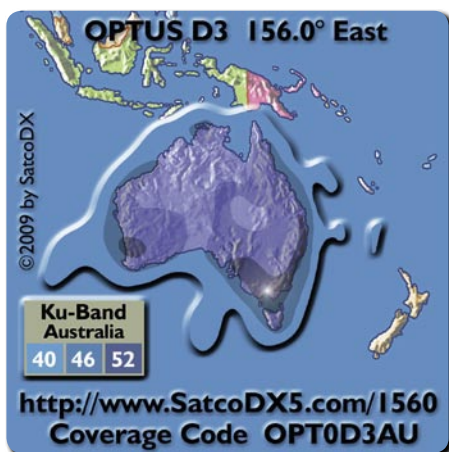




OPTUS D3

May-June 2009

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



INTELSAT 15

June 2009

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



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

THOR 6

June 2009



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

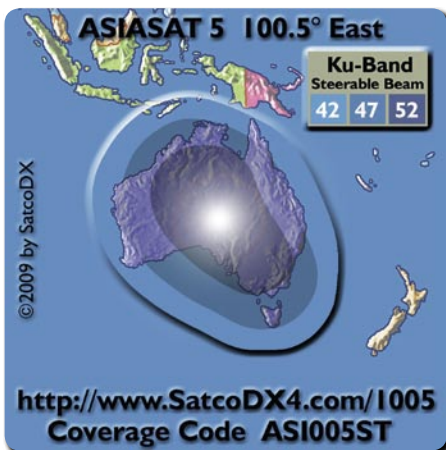
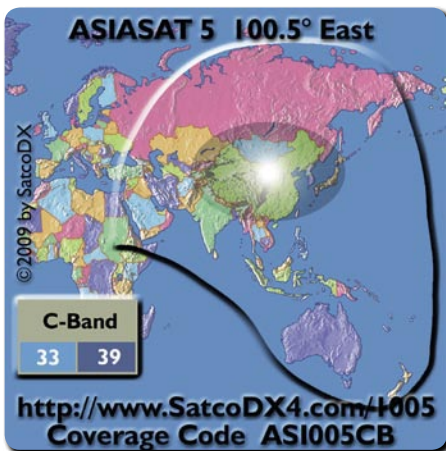


ASIASAT 5

June 2009

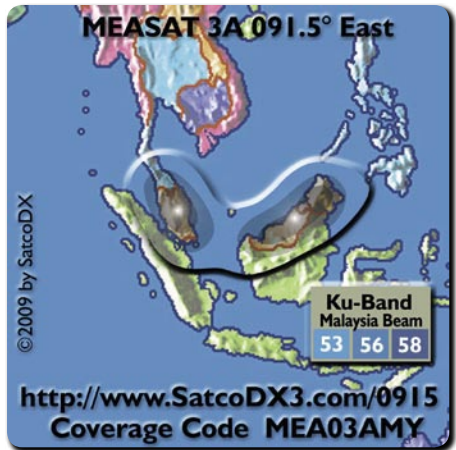
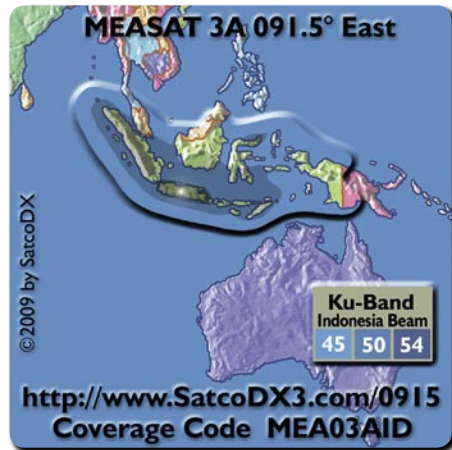
ASIASAT 5 C-band footprint will offer an extensive pan-Asian coverage and its high power Ku-band beams will focus on both East and South Asia, with a steerable beam that will cover anywhere within ASIASAT 5 geographic coverage. ASIASAT 5 has a sophisticated Ku-band inter-beam switching which provides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

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



MEASAT 3A
June 2009

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





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Edited by
Branislav Pekic

EUROPE

EUROPE

NSS-9 SATELLITE SUCCESSFULLY LAUNCHED

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

ASTRA 1M READY FOR OPERATION

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

170 MILLION HDTV EUROPEAN HOUSEHOLDS BY 2013

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

AUSTRIA

TELEKOM AUSTRIA TOPS 63.800 IPTV SUBSCRIBERS

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

BOSNIA-HERZEGOVINA

BH TELECOM SIGNS IPTV/VOIP DEAL

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

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

FRANCE

SES ASTRA AND GLOBECAST DISTRIBUTE ORANGE TV

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

FRENCH IPTV HOUSEHOLDS TOP 5.64 MILLION

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

GERMANY

GERMANY CLOSES 2008 WITH 536.000 IPTV SUBSCRIBERS

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

ITALY

TISCALI CANCELS IPTV SERVICE

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

RUSSIA

PLATFORMAHD BOOSTS CAPACITY ON EUROBIIRD 9

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

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

ARIANE TO LAUNCH YAMAL SATELLITES

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

EXPRESS SATELLITES SUCCESSFULLY LAUNCHED

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

SPAIN

TV3 and IB3 STUDY JOINT IPTV CHANNEL

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

TURKEY

MEDIA REGULATOR PREPARES GROUND FOR IPTV

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

UNITED KINGDOM

BBC, ITV AND BT TO DEVELOP IPTV STANDARD

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

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

VIRGIN MEDIA TO LAUNCH FOUR HDTV CHANNELS

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

AVANTI TO LAUNCH SATELLITE

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

UK LEADS HDTV TAKE-UP

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

HD TERRESTRIAL TESTS LAUNCH IN LONDON

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

NORTH AMERICA

CANADA

SASKTEL TO DEPLOY MARINER'S IPTV PLATFORM

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

BELL TV OFFERS NEW BOXES FOR HD SUBSCRIBERS

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

UNITED STATES

RAINBOW DROPS VOOM HD SERVICE

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

ZCOM NETWORKS TO INTEGRATE IPTV WITH SATELLITE

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

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DISH NETWORK INTRODUCES SLINGBOX TECHNOLOGY

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

NEULION LAUNCHES NEW IPTV HD BOX

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

VERIZON FIOS WITH 1.9 MILLION IPTV SUBSCRIBERS

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

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

TIME WARNER WITH 100 HD CHANNEL IN NY

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

17 MILLION HDTV HOUSEHOLDS DO NOT WATCH HD

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

SPACE SYSTEMS/LORAL TO BUILD INTELSAT 17 SATELLITE

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

LATIN AMERICA

ARGENTINA

TELEFONICA LAUNCHES VOD TESTS

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

TELPIN LAUNCHES IPTV SERVICE

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

COLOMBIA

UNE ENDS 2008 WITH 30.000 IPTV SUBSCRIBERS

Telecommunications operator UNE EPM ended 2008 with 30,000 subscribers for its IPTV service, one year after launch. It is now aiming to reach around 150,000 by the end of this year. Une is using Orca Interactive middleware, Verimatrix CAS and set-top boxes from Sagem, integrated by local supplier Grupo Unión. UNE is now focused on expanding the service into other regions of



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Frequency: 12.115 MHz
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FEC: 3/4
Audio PID 1794 E



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NETHERLAND ANTILLES

UTS CURACAO DELIVERS MORE HD WITH RGB NETWORKS

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

URUGUAY

ANTEL TO LAUNCH IPTV

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

ASIA

MIDDLE EAST SATELLITE REVENUES TOP US\$ 752 MILLION

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

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

JAPAN HDTV LEADER IN ASIA

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

SMARTSAT FIRST PRIVATE SATELLITE COMPANY

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

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

ASTRIUM AND THALES TO DELIVER NEW ARABSAT SATELLITES

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

CHINA

ZHUJIANG DIGITAL OPTS FOR MICROSOFT MEDIAROOM

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

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

IPTV SUBSCRIBERS UP 100 PERCENT IN 2008

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

INDIA

BHARTI AIRTEL LAUNCHES IPTV SERVICES

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

BSNL ANNOUNCES INTERACTIVE TV ON IPTV

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

INDONESIA

RUSSIAN COMPANY TO BUILD TELKOM 3 SATELLITE

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

MOROCCO

MAROC TELECOM WITH 10,000 IPTV SUBSCRIBERS

Maroc Telecom ended 2008 with 10,000 subscribers for its IPTV services, while its fixed-line subscriber base fell 2.8% year-on-year to reach 1.299 million lines. The number of fixed Internet access lines totalled 482,000 at the end of last year, up 1.3% from end-2007. Maroc Telecom introduced its IPTV service in August 2006, based on a platform supplied by Huawei.

THE PHILIPPINES

PLDT TO LAUNCH DTH SERVICE

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

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

SOUTH KOREA

LG DACOM LAUNCHES IPTV SERVICE

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

SK BROADBAND SEEKS IPTV LEADERSHIP SPOT

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

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CHINA MARKET IS OPENING!

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

TAIWAN

CHT MOD ENDS 2008 WITH 600.000 IPTV SUBSCRIBERS

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

VIETNAM

VTC LAUNCHES HDTV CHANNELS VIA SATELLITE

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

AUSTRALIA & PACIFIC

AUSTRALIA

MYKP TO TRIAL IPTV SERVICES

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

NEW ZEALAND

SKY SELLS 54.000 HD BOXES IN 2008

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

AFRICA

INTELSAT TO LAUNCH NEW DAWN IN 2010

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

WORLD

HDTV INTEROPERABILITY TESTS TO START IN JUNE

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



NanoXX 9500HD / 9800HD

HDTV and SDTV Satellite Reception of Premium Quality

- + Outstanding super sharp picture both in MPEG-4 and MPEG-2 transmissions
- + High resolution upscaling of SDTV (PAL) to 720p or 1080i via HDMI
- + High resolution OnScreen Graphics designed for HDTV Flat Screens
- + USB2.0 with PVR Function for Digital Video Recording to an external USB2.0 Harddisk (to be connected optional)
- + Record 2 channels and watch a 3rd channel (also Timeshift) from the same transponder at the same time (9500HD) or from different transponders using a NanoXX 9800HD with 2 DVB-S2 Tuners.
- + Ethernet RJ45 for Software Upgrades, FTP File Transfer for copying files via LAN from/to the connected USB2.0 device (also Memory Stick)
- + Videostreaming Server-Client integrated. Watch a recorded movie stored at the USB harddisk via ethernet using a second NanoXX HD-Receiver connected to the network.
- + Integrated Medioplayer: Playback AVI (XVID), JPG and MP3 files from the connected USB2.0 device
- + 2 Common Interface Slots and 1 Smart Card Reader for Conax, X-Crypt, DG-Crypt, Firecrypt, Crypton
- + HDMI Ver. 1.2, S-VHS, YPbPr RGB Outputs, S/PDIF optical&coaxial, Audio-Video-Cinch, 9800HD: eSATA

NanoXX 9500HD-C

HDTV and SDTV Cable Reception of Premium Quality

- + Outstanding super sharp picture both in MPEG-4 and MPEG-2 DVB-C transmissions (Cable)
- + Same specifications as the NanoXX 9500HD for satellite reception but DVB-C Tuner

Product Informations @ YouTube

<http://www.nanoxx.info>

<http://www.youtube.com/Nanoxxdotinfo>

NanoXX Product Range

NanoXX 9300C (Cable Receiver)

NanoXX 9400 (Satellite Receiver)

NanoXX 9500HD (HDTV USB-PVR Sat.-Receiver)

NanoXX 9500HD-C (HDTV USB-PVR Cable-Rec.)

NanoXX 9600IP (IP-PVR Sat.-Receiver)

NanoXX 9800HD (Twin-HDTV USB-PVR Sat.-Rec.)

Software und FAQ

Firmware Upgrades & Tools:

<http://www.nanoxx.info/download>

Frequently Asked Questions (FAQ):

<http://www.nanoxx.info/faq>

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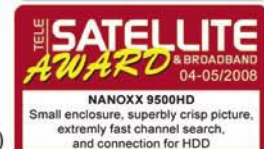
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26. - 28. May 2009

Hall 10.2, Stand No. L30



Exhibition Preview

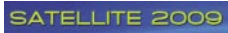
- **21 - 23 March: CCBN 2009**

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



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

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



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

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



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

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



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

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

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

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



- **11 - 15 September 2009: IBC 2009**

Latest technology and foremost business ideas in
broadcasting and media
RAI, Amsterdam, The Netherlands
www.ibc.org

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

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



- **21 - 23 October 2009: EEBC 2009**

7th Eastern Europe Exhibition and Conference in
Telecommunications and Broadcasting
Exhibition Centre "KyivExpoPlaza", Kiev, Ukraine
www.eebc.net.ua



TELE-satellite Deadlines

Editorial Deadlines, Magazine Publishing Dates

<i>Number</i>	<i>Issue</i>	<i>Deadline</i>	<i>Hardcopies</i>	<i>Available Online</i>
#211	06/2009	3 April 2009	15 May 2009	29 May 2009
#212	08/2009	5 June 2009	17 July 2009	31 July 2009
#213	10/2009	7 August 2009	18 September 2009	2 October 2009
#214	12/2009	2 October 2009	13 November 2009	18 December 2009
#215	02/2010	4 December 2009	15 January 2010	29 January 2010

SatCoDX Global Satellite Chart 04/2009

Table of satellite channels for Freq Pol Channel Name, Symbol rate GHz, and Channel Name. Includes Europe, Eutelsat W10, and Eutelsat W1010.0° East.

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Hotbird 6 Coverage Code HOT006KB

Hotbird 8 Coverage Code HOTO08KB

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SatCoDX Global Satellite Chart 04/2009

Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad	27500	12.226 V IBB VOA FRENEL Rad

Freq Pol Channel Name	Symbol rate	GHz	Channel Name	Symbol rate	GHz
12.628 V Computer Music	21096		3.960 V 35_KF	30000	3.960
12.628 V Country	21096		3.960 V 36_Castal & Piano Mu	30000	3.960
12.628 V D-Navi Station	21096		3.960 V 37_Fashion Music	30000	3.960
12.628 V Disco Collection	21096		3.960 V 38_Soft Music	30000	3.960
12.628 V East Japan Best Hits	21096		3.960 V 39_KG	30000	3.960
12.628 V Enka Karaoke	21096		3.960 V 40_Asia Radio	30000	3.960
12.628 V Eurobeat	21096		4.000 V C1News	30000	4.000
12.628 V Folk & New Music	21096		4.000 V ERA-E	30000	4.000
12.628 V Foreign Karaoke	21096		4.000 V ETNews	30000	4.000
12.628 V Group Sounds	21096		4.000 V MEGA	30000	4.000
12.628 V Hard Rock & Metal	21096		4.000 V MTV	30000	4.000
12.628 V Hip Pop	21096		4.000 V PTV-2	30000	4.000
12.628 V Inter FM Tokyo	21096		4.000 V PTV1	30000	4.000
12.628 V J-Anime & SF&K Song	21096		4.000 V STN	30000	4.000
12.628 V J-Groove Special	21096		4.000 V UEN	30000	4.000
12.628 V J-Idol & Voice Idol	21096		4.000 V UBNNews	30000	4.000
12.628 V J-Pop	21096		4.000 V MAC-TV	30000	4.000
12.628 V J-Pop 10's Hits	21096		4.000 V Data1	30000	4.000
12.628 V J-Pop 70's&80's Album	21096		4.000 V UFO	30000	4.000
12.628 V J-Pop 80's Hits	21096		4.000 V UFO	30000	4.000
12.628 V J-Pop 90's Album	21096		4.056 V (Empty Name)	3330	4.056
12.628 V J-Pop 90's Hits	21096		4.100 V C94	30000	4.100
12.628 V J-Pop Artist Special	21096		4.100 V EBC Financial News	30000	4.100
12.628 V J-Pop Artist Special	21096		4.120 V ET Movie	30000	4.120
12.628 V J-Pop Artist Special	21096		4.120 V ET Variety	30000	4.120
12.628 V J-Pop Ballads	21096		4.120 V SET-29	30000	4.120
12.628 V J-Pop Compilation	21096		4.120 V SET-30	30000	4.120
12.628 V J-Pop Dam Hits	21096		4.120 V SET-54	30000	4.120
12.628 V J-Pop Hit Album	21096		4.120 V SET1	30000	4.120
12.628 V J-Pop Hit Chart	21096		4.120 V SET-29	30000	4.120
12.628 V J-Pop Karaoke	21096		4.120 V C92	30000	4.120
12.628 V J-Pop New Album Pop	21096		4.120 V FTV	30000	4.120
12.628 V J-Pop New Album Reco	21096		4.120 V FTV	30000	4.120
12.628 V J-Pop New Album Reco	21096		4.120 V FTV	30000	4.120
12.628 V J-Pop New Single	21096		4.120 V FTV	30000	4.120
12.628 V J-Pop Single Chart	21096		4.120 V FTV	30000	4.120
12.628 V J-Pop Single Hits	21096		4.120 V FTV	30000	4.120
12.628 V J-Pop Special	21096		4.120 V FTV	30000	4.120
12.628 V J-Soundtrack	21096		4.120 V FTV	30000	4.120
12.628 V Jazz Artist Special	21096		4.120 V FTV	30000	4.120
12.628 V Jazz Contemporary	21096		4.120 V FTV	30000	4.120
12.628 V Jazz Fusion	21096		4.120 V FTV	30000	4.120
12.628 V Jazz Mainstream	21096		4.120 V FTV	30000	4.120
12.628 V Jazz New Album	21096		4.120 V FTV	30000	4.120
12.628 V Jazz Swing	21096		4.120 V FTV	30000	4.120
12.628 V Jazz Vocal	21096		4.120 V FTV	30000	4.120
12.628 V JBC	21096		4.120 V FTV	30000	4.120
12.628 V Kayo 19x3	21096		4.120 V FTV	30000	4.120
12.628 V Kayo 80's Hits	21096		4.120 V FTV	30000	4.120
12.628 V Kayo Artist Special	21096		4.120 V FTV	30000	4.120
12.628 V Kayo Classics	21096		4.120 V FTV	30000	4.120
12.628 V Kayo Compilations	21096		4.120 V FTV	30000	4.120
12.628 V Kayo Dam Hits	21096		4.120 V FTV	30000	4.120
12.628 V Kayo Hit Chart	21096		4.120 V FTV	30000	4.120
12.628 V Kids	21096		4.120 V FTV	30000	4.120
12.628 V Korean Pop	21096		4.120 V FTV	30000	4.120
12.628 V Korean Songs	21096		4.120 V FTV	30000	4.120
12.628 V MinyoTalk	21096		4.120 V FTV	30000	4.120
12.628 V Okinawa Music	21096		4.120 V FTV	30000	4.120
12.628 V Oodies	21096		4.120 V FTV	30000	4.120
12.628 V R&B & Soul	21096		4.120 V FTV	30000	4.120
12.628 V Reggae	21096		4.120 V FTV	30000	4.120
12.628 V Rock Alternative	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop 19x3	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 5	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 8	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 9	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 10	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 11	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 12	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 13	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 14	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 15	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 16	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 17	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 18	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 19	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 20	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 21	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 22	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 23	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 24	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 25	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 26	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 27	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 28	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 29	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 30	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 31	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 32	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 33	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 34	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 35	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 36	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 37	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 38	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 39	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 40	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 41	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 42	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 43	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 44	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 45	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 46	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 47	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 48	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 49	21096		4.120 V FTV	30000	4.120
12.628 V Rock/Pop Artist 50	21096		4.120 V FTV	30000	4.120

Freq Pol Channel Name	Symbol rate	GHz	Channel Name	Symbol rate	GHz
12.595 V EUROS	27500		12.595 V EUROS	27500	12.595
12.595 V MAS	30000		12.595 V MAS	30000	12.595
12.595 V MTRV	27500		12.595 V MTRV	27500	12.595
12.595 V PHOEN	27500		12.595 V PHOEN	27500	12.595
12.595 V TEST-3	27500		12.595 V TEST-3	27500	12.595
12.595 V TV5	27500		12.595 V TV5	27500	12.595
12.595 V KINGST	27500		12.595 V KINGST	27500	12.595
12.595 V STARBUCK	27500		12.595 V STARBUCK	27500	12.595
12.595 V SUN	27500		12.595 V SUN	27500	12.595
12.675 V TELSTAR 18	30000		12.675 V TELSTAR 18	30000	12.675
12.675 V SUN	27500		12.675 V SUN	27500	12.675
12.302 V A1	30000		12.302 V A1	30000	12.302
12.302 V A10	30000		12.302 V A10	30000	12.302
12.302 V A11	30000		12.302 V A11	30000	12.302
12.302 V A13	30000		12.302 V A13	30000	12.302
12.302 V A14	30000		12.302 V A14	30000	12.302
12.302 V A2	30000		12.302 V A2	30000	12.302
12.302 V A3	30000		12.302 V A3	30000	12.302
12.302 V A4	30000		12.302 V A4	30000	12.302
12.302 V A5	30000		12.302 V A5	30000	12.302
12.302 V A6	30000		12.302 V A6	30000	12.302
12.302 V A7	30000		12.302 V A7	30000	12.302
12.302 V A8	30000		12.302 V A8	30000	12.302
12.302 V A9	30000		12.302 V A9	30000	12.302
12.355 V 01-CTV-1	43000		12.355 V 01-CTV-1	43000	12.355
12.355 V 02-PROXY/INFO	43000		12.355 V 02-PROXY/INFO	43000	12.355
12.355 V 03-PROXY/CHANN	43000		12.355 V 03-PROXY/CHANN	43000	12.355
12.355 V 04-FASHION TV	43000		12.355 V 04-FASHION TV	43000	12.355
12.355 V 05-SUN TV	43000		12.355 V 05-SUN TV	43000	12.355
12.355 V 06-ATV	43000		12.355 V 06-ATV	43000	12.355
12.355 V 07-ATV	43000		12.355 V 07-ATV	43000	12.355
12.355 V 08-ATV	43000		12.355 V 08-ATV	43000	12.355
12.355 V 09-TV8	43000		12.355 V 09-TV8	43000	12.355
12.355 V 10-TRD XINGHE	43000		12.355 V 10-TRD XINGHE	43000	12.355
12.355 V 11-HBS	43000		12.355 V 11-HBS	43000	12.355
12.355 V 12-TVBSG	43000		12.355 V 12-TVBSG	43000	12.355
12.355 V 13-TVBSN	43000		12.355 V 13-TVBSN	43000	12.355
12.355 V 14-UBNEWS	43000		12.355 V 14-UBNEWS	43000	12.355
12.355 V 15-HLJ MARK CHAN	43000		12.355 V 15-HLJ MARK CHAN	43000	12.355
12.355 V 16-ZHUJIANG	43000		12.355 V 16-ZHUJIANG	43000	12.355
12.355 V 17-CTV-NEWS	43000		12.355 V 17-CTV-NEWS	43000	12.355
12.355 V 18-CTV	43000		12.355 V 18-CTV	43000	12.355
12.355 V 19-CTV	43000		12.355 V 19-CTV	43000	12.355
12.355 V 20-CTV	43000		12.355 V 20-CTV	43000	12.355
12.355 V 21-CTV-1	43000		12.355 V 21-CTV-1	43000	12.355
12.355 V 22-CTV-2	43000		12.355 V 22-CTV-2	43000	12.355
12.355 V 23-CTV-3	43000		12.355 V 23-CTV-3	43000	12.355
12.355 V 24-CELESTIAL TV	43000		12.355 V 24-CELESTIAL TV	43000	12.355
12.355 V 33-Channel TVB 3001	43000		12.355 V 33-Channel TVB 3001	43000	12.355
12.605 H DimSum Service	3600		12.605 H DimSum Service	3600	12.605
12.690 H Education	27500		12.690 H Education	27500	12.690
12.690 H TV5	27500		12.690 H TV5	27500	12.690
12.690 H HBS	27500		12.690 H HBS	27500	12.690
12.690 H TV2S	43000		12.690 H TV2S	43000	12.690
12.690 H TVS	43000		12.690 H TVS	43000	12.690
12.690 H Uplink 3	27500		12.690 H Uplink 3	27500	12.690
12.690 H Uplink 4	27500		12.690 H Uplink 4	27500	12.690
12.690 H Uplink 5	27500		12.690 H Uplink 5	27500	12.690
12.690 H Uplink 6	27500		12.690 H Uplink 6	27500	12.690
12.690 H Uplink 7	27500		12.690 H Uplink 7	27500	12.690
12.690 H Uplink 8	27500		12.690 H Uplink 8	27500	12.690
12.690 H Uplink 9	27500		12.690 H Uplink 9	27500	12.690
12.690 H Uplink 10	27500		12.690 H U		

SatcoDX Global Satellite Chart 04/2009

Table with 3 columns: Freq Pol Channel Name, Symbol rate, GHz. Lists satellite channels and their technical specifications.

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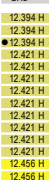
Table with 3 columns: Freq Pol Channel Name, Symbol rate, GHz. Lists satellite channels and their technical specifications.

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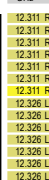
Table with 3 columns: Freq Pol Channel Name, Symbol rate, GHz. Lists satellite channels and their technical specifications.



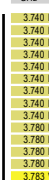
INTORGESAT 8 166.0° East



C-Band AMC 11



AMC 11 229.0° East



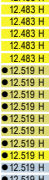
C-Band AMC 11GB



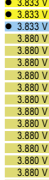
C-Band AMC 11GB



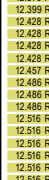
C-Band AMC 11GB



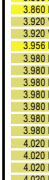
C-Band AMC 11GB



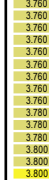
C-Band AMC 11GB



C-Band AMC 11GB



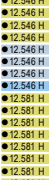
C-Band AMC 11GB



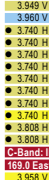
C-Band AMC 11GB



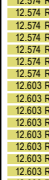
C-Band AMC 11GB



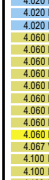
C-Band AMC 11GB



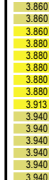
C-Band AMC 11GB



C-Band AMC 11GB



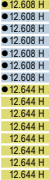
C-Band AMC 11GB



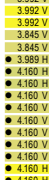
C-Band AMC 11GB



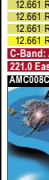
C-Band AMC 11GB



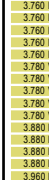
C-Band AMC 11GB



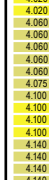
C-Band AMC 11GB



C-Band AMC 11GB



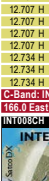
C-Band AMC 11GB



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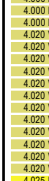
C-Band AMC 11GB



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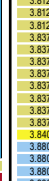
C-Band AMC 11GB



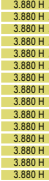
C-Band AMC 11GB



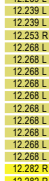
C-Band AMC 11GB



C-Band AMC 11GB



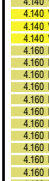
C-Band AMC 11GB



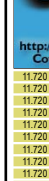
C-Band AMC 11GB



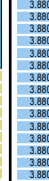
C-Band AMC 11GB



C-Band AMC 11GB



C-Band AMC 11GB



C-Band AMC 11GB

Table with 4 columns: Freq Pol Channel Name, Symbol rate GHz, Freq Pol Channel Name, Symbol rate GHz. Includes channels like 3.880 U Channel Beat, 3.780 OS Download, 3.920 Soap East, etc.

Table with 4 columns: Freq Pol Channel Name, Symbol rate GHz, Freq Pol Channel Name, Symbol rate GHz. Includes channels like 12.253 R KING-TV, 12.253 R KMXB-TV, 12.253 R KNSD-TV, etc.

Table with 4 columns: Freq Pol Channel Name, Symbol rate GHz, Freq Pol Channel Name, Symbol rate GHz. Includes channels like 12.501 L 80's Hits, 12.501 L Beach Party, 12.501 L Classical Ambiance, etc.

Table with 4 columns: Freq Pol Channel Name, Symbol rate GHz, Freq Pol Channel Name, Symbol rate GHz. Includes channels like 12.530 L KHGH, 12.530 L WJZZ, 12.530 L WBBM, etc.

AMC 16 275.0 East

AMC 16K

AMC 16 275.0 East

AMC 16K

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AMC 16 275.0 East

AMC 16K

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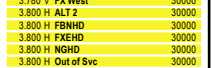
Table with 2 columns: Freq Pol Channel Name, Symbol rate GHz. Includes entries like 12.175 W JRYM MUSIC 5147, 12.177 W MACYS 4 5147, 12.177 W MACYS 5 5147.

North America

GALAXY 11 17

269.0 East (9.0 West)

GXV11C



C-Band 30 36 40

http://www.SatcoDX7.com/2690 Coverage Code GXV11C B

Main table of satellite data for North America, listing channel names, symbol rates, and frequencies. Includes entries like 3.720 H The CW Central/Mount 26700, 3.740 W Fox Sports Feeds (B) 27800, etc.

Main table of satellite data for Europe, listing channel names, symbol rates, and frequencies. Includes entries like 12.239 L CWY1 20000, 12.239 L GAME 20000, etc.

Main table of satellite data for Asia, listing channel names, symbol rates, and frequencies. Includes entries like 12.399 R OMNI1 20000, 12.399 R SPRD0 20000, etc.

Main table of satellite data for Africa, listing channel names, symbol rates, and frequencies. Includes entries like 12.545 R Vu10 20000, 12.545 R Wt1 20000, etc.

Main table of satellite data for South America, listing channel names, symbol rates, and frequencies. Includes entries like 12.561 R VuP1 20000, 12.561 R Empty 20000, etc.

Main table of satellite data for Oceania, listing channel names, symbol rates, and frequencies. Includes entries like 4.174 H SG Test Card 3024, 12.384 L DISHD 20000, etc.

Main table of satellite data for other regions, listing channel names, symbol rates, and frequencies. Includes entries like 12.384 L DISHD 20000, 12.384 L H01 20000, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists various satellite channels including TCM Latin America, TNT Brazil, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists various satellite channels including NT PORT, RNT ESP, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists various satellite channels including ContactVAPURE, ContactV CHRISTIAN, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists various satellite channels including HISPASAT 1C 330.0° East, HISPASAT 1C 330.0° East, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists various satellite channels including TAQUILLAX, TAQUILLAX, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists various satellite channels including Futelco MC 3, Futelco MC 4, etc.

Table with columns: Freq Pol Channel Name, Symbol rate, GHz. Lists various satellite channels including TVCms 4 HD, TVCms Cinecine HD, etc.

Complex block containing a map of the Americas and text: NSS 806 319.5° East, Coverage Code NSS806CH, etc.

Complex block containing a map of Europe and text: HISPASAT 1C 330.0° East, Coverage Code HIS01CK, etc.

Complex block containing a map of Africa and text: HISPASAT 1C 330.0° East, Coverage Code HIS01CK, etc.

Complex block containing a map of Asia and text: HISPASAT 1C 330.0° East, Coverage Code HIS01CK, etc.

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

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Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate	Freq Pol Channel Name	Symbol rate
GHz		GHz		GHz		GHz		GHz	
12.169 H McBox	28000	11.785 H Nat Geo Wild RO	28000	4.025 R BBC English (W.A.)	7324	TH0002KU		12.456 V Discov Science	28000
12.169 H Planets TV	28000	11.785 R BBC English Mid-Ea	7324	4.025 R BBC English News	7324	THOR 2 359.2° East		12.456 V World Carnival	28000
12.169 H SKAT	28000	4.025 R BBC English News	7324	4.025 R BBC English News	7324	THOR 3 359.2° East		12.456 V MTV2 (Cable)	28000
12.169 H Telesat TV	28000	4.025 R BBC French	7324	4.025 R BBC Pashto	7324	THOR 4 359.2° East		12.456 V Jazz Classics	28000
12.169 H TV LUX	28000	4.025 R BBC Portuguese	7324	4.025 R BBC Somali	7324			12.456 V Just Chill Out	28000
12.169 H Alpha 3	28000	4.025 R BBC Swahili	7324	4.025 R BBC Swahili	7324			12.456 V World News	28000
12.169 H Alpha Radio	28000	4.025 R BBC Swahili	7324	4.025 R BBC Swahili	7324			12.456 V Nick-VH1 TS	28000
12.169 H BG Radio	28000							12.456 V Rock Anthems	28000
12.169 H ENERGY	28000							12.456 V Sky News	28000
12.169 H Focus Prima	28000							12.456 V Soul Classics	28000
12.169 H Focus Sofia	28000							12.456 V Strictly 60s	28000
12.169 H Focus Varnovo	28000							12.456 V The Alternative	28000
12.169 H Focus Varna	28000							12.456 V Total Hits	28000
12.169 H HT FM	28000							12.456 V Total Hits Italy	28000
12.169 H HORNET Radio	28000							12.456 V Total Hits Nordi	28000
12.169 H Njopy	28000							12.456 V Urban	28000
12.169 H OMV ROMANIA	28000							12.456 V VHI Classic	28000
12.169 H Radio 1	28000							12.456 V World's Best Music	28000
12.169 H Radio City 2	28000							12.456 V Xmas & Kids	28000
12.169 H Radio FM+	28000							12.476 H Eurosport	27800
12.169 H Radio Fresh	28000							12.476 H Eurosport 2	27800
12.169 H Radio Misa	28000							12.476 H TV-Bijlet1	27800
12.169 H Radio107	28000							12.476 H TV-Bijlet2	27800
12.169 H STAR FM	28000							12.476 H TV Guid	27800
12.169 H Test Radio	28000							12.476 H TV Komedi	27800
12.169 H Veronica	28000								
12.169 H Z-ROCK	28000								
12.226 V ESPN America	28000								
12.226 V ESPN Classic	28000								
12.226 V ESPN Sport 2	28000								
12.226 V TV (N)	28000								
12.226 V TV8	28000								
12.226 V Scandinavian Satelli	28000								
12.245 H Antena 1	28000								
12.245 H Favorit TV	28000								
12.245 H Hallmark	28000								
12.245 H Hustler TV	28000								
12.245 H Minimax	28000								
12.245 H MTV Romania	28000								
12.245 H National TV	28000								
12.245 H Prima TV	28000								
12.245 H Realitatea TV	28000								
12.245 H Romantica	28000								
12.245 H Telesport	28000								
12.245 H TVR 1	28000								
12.245 H TVR 2	28000								
12.245 H TVR Cultural	28000								
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12.245 H TVR 46	28000								
12.245 H TVR 47	28000								
12.245 H TVR 48	28000								
12.245 H TVR 49	28000								
12.245 H TVR 50	28000								



Alexandru Porosanu
TELE-satellite
Statistics Center
Romania

SatcoDX World Statistics

Top 60 Video PIDs Worldwide

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

Top 60 Audio PIDs Worldwide

Audio PID	Feb 2008	Jan 2009	Feb 2009	2009/2008
256	328		300	-8.54%
1120	296		262	-11.49%
4131	181		175	-3.31%
100	163		171	4.91%
660	163		154	-5.52%
640	126		154	22.22%
1220	183		152	-16.94%
650	157		146	-7.01%
80	142		133	-6.34%
84	135		126	-6.67%
1320	146		125	-14.38%
34	144		118	-18.06%
104	106		116	9.43%
36	132		112	-15.15%
88	116		112	-3.45%
700	107		111	3.74%
108	101		102	0.99%
5923	98		102	4.08%
102	105		101	-3.81%
4195	123		99	-19.51%
1420	114		99	-13.16%
92	102		95	-6.86%
680	104		94	-9.62%
96	102		93	-8.82%
670	155		92	-40.65%
112	95		90	-5.26%
4387	75		90	20.00%
400	112		89	-20.54%
202	78		88	12.82%
6179	60		87	45.00%
4643	77		87	12.99%
641	83		84	1.20%
258	88		84	-4.55%
1620	89		81	-8.99%
4899	68		81	19.12%
402	78		79	1.28%
116	82		78	-4.88%
644	86		78	-9.30%
5155	66		78	18.18%
1520	88		77	-12.50%
651	81		76	-7.32%
690	70		75	7.14%
302	71		73	2.82%
5667	71		75	5.63%
5411	65		73	12.31%
652	60		72	20.00%
642	61		70	14.75%
502	53		70	32.08%
6435	53		70	32.08%
120	76		67	-11.84%
664	68		66	-2.94%
710	69		65	-5.80%
668	45		64	42.22%
6691	45		62	37.78%
648	47		62	31.91%
1720	64		62	-3.12%
1920	71		60	-15.49%

Transmission Types Worldwide

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

Transponder Polarization Worldwide

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

Top 100 Ku band Frequencies Worldwide

Frequency	Feb 2008	Jan 2009	Feb 2009	2009/2008
12.226	188		206	9.57%
12.149	150		171	14.00%
11.823	104		152	46.15%
12.399	138		142	2.90%
12.360	89		132	48.31%
12.341	86		131	52.33%
11.938	92		126	36.96%
12.418	99		122	23.23%
12.428	54		121	124.07%
11.804	63		120	90.48%
12.092	82		120	46.34%
11.747	59		118	100.00%
12.523	120		116	-3.33%
12.643	92		113	22.83%
12.303	127		107	-15.75%
12.628	106		106	0.00%
12.661	72		103	43.06%
11.785	143		102	-28.67%
11.766	80		101	26.25%
12.355	93		100	7.53%
12.265	17		100	488.24%
12.407	98		97	-1.02%
11.727	76		97	27.63%
12.207	200		97	-51.50%
12.253	61		96	57.38%
11.470	53		96	81.13%
12.574	132		96	-27.27%
12.282	79		94	18.99%
12.053	51		94	84.31%
11.919	59		93	57.63%
12.647	76		93	22.37%
12.688	87		92	5.75%
11.996	95		91	-4.21%
11.843	95		91	-4.21%
12.015	42		88	109.52%
11.010	83		87	4.82%
11.283	77		87	12.99%
11.630	33		86	160.61%
12.268	58		85	46.55%
12.472	53		84	58.49%
11.635	83		84	1.20%
12.284	34		83	144.12%
12.311	76		83	9.21%
12.486	37		83	124.32%
11.550	27		83	207.41%
12.012	97		83	-14.43%
12.370	63		80	26.98%
12.302	34		80	135.29%
12.545	59		80	35.59%
12.516	56		80	42.86%
11.130	15		79	426.67%
12.130	32		78	143.75%
12.726	19		78	310.53%
12.322	96		77	-19.79%
12.476	82		77	-6.10%
12.604	181		75	-58.56%
10.970	84		75	-10.71%
11.170	58		74	27.59%
12.723	35		74	117.65%
12.224	64		74	13.85%
12.729	19		74	289.47%
12.034	42		73	73.81%
12.608	15		72	380.00%
12.169	70		71	1.43%
12.380	93		70	-24.73%
12.563	61		70	14.75%
11.604	67		70	4.48%
12.501	57		69	21.05%
12.603	74		69	-6.76%
12.414	99		69	-30.30%
11.642	76		69	-9.21%
11.596	25		68	172.00%
11.862	55		68	23.64%
12.443	64		66	3.12%
11.954	53		66	24.53%
12.519	63		66	4.76%
12.565	65		66	1.54%
12.607	45		65	44.44%
12.581	49		65	32.65%
11.617	65		64	-1.54%
11.778	14		64	357.14%
12.644	26		63	142.31%
12.683	47		63	34.04%
11.900	69		63	-8.70%
10.972	64		62	-3.12%
11.623	47		62	31.91%
11.150	48		62	29.17%
12.456	82		62	-24.39%
11.075	40		61	52.50%

Top 40 Symbol Rate Usage Worldwide

Symbol Rate	Feb 2008	Jan 2009	Feb 2009	2009/2008
27500	9849		8537	-13.32%
30000	2292		2768	20.77%
20000	1840		2310	25.54%
22000	1350		1045	-22.59%
28000	545		518	-4.95%
28500	246		491	99.59%
19510	459		456	-0.65%
22500	316		434	37.34%
21096	410		410	0.00%
29270	276		286	3.62%
27800	277		276	-0.36%
28800	51		265	419.61%
29950	206		217	5.34%
24500	136		197	44.85%
26000	153		189	23.53%
27684	175		175	0.00%
26470	128		108	-15.62%
21300	54		106	96.30%
28100	74		104	40.54%
30800	106		104	-1.89%
22425	124		102	-17.74%
20600	81		96	18.52%
26667	115		92	-20.00%
3428	64		92	43.75%
40700	22		90	309.09%
33483	19		89	368.42%
25000	48		89	85.42%
27489	85		85	Inf
26480	76		77	1.32%
26652	29		74	155.17%
25600	70		70	0.00%
28125	94		67	-28.72%
27690	87		62	-28.74%
24440	55		61	10.91%
26657	66		61	-7.58%
27700	62		60	-3.23%
5000	34		58	70.59%
10000	50		57	14.00%
28062	54		57	5.56%

Top 80 C band Frequencies Worldwide

Frequency	Feb 2008	Jan 2009	Feb 2009	2009/2008
4.000	120		115	-4.17%
4.060	193		103	-46.63%
4.175	70		100	42.86%



Edited by Alexander Wiese

20 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 02/1988



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Europas Satelliten

Programmwertsatelliten für Europa im Sendebereich 10.95 bis 11,70 GHz

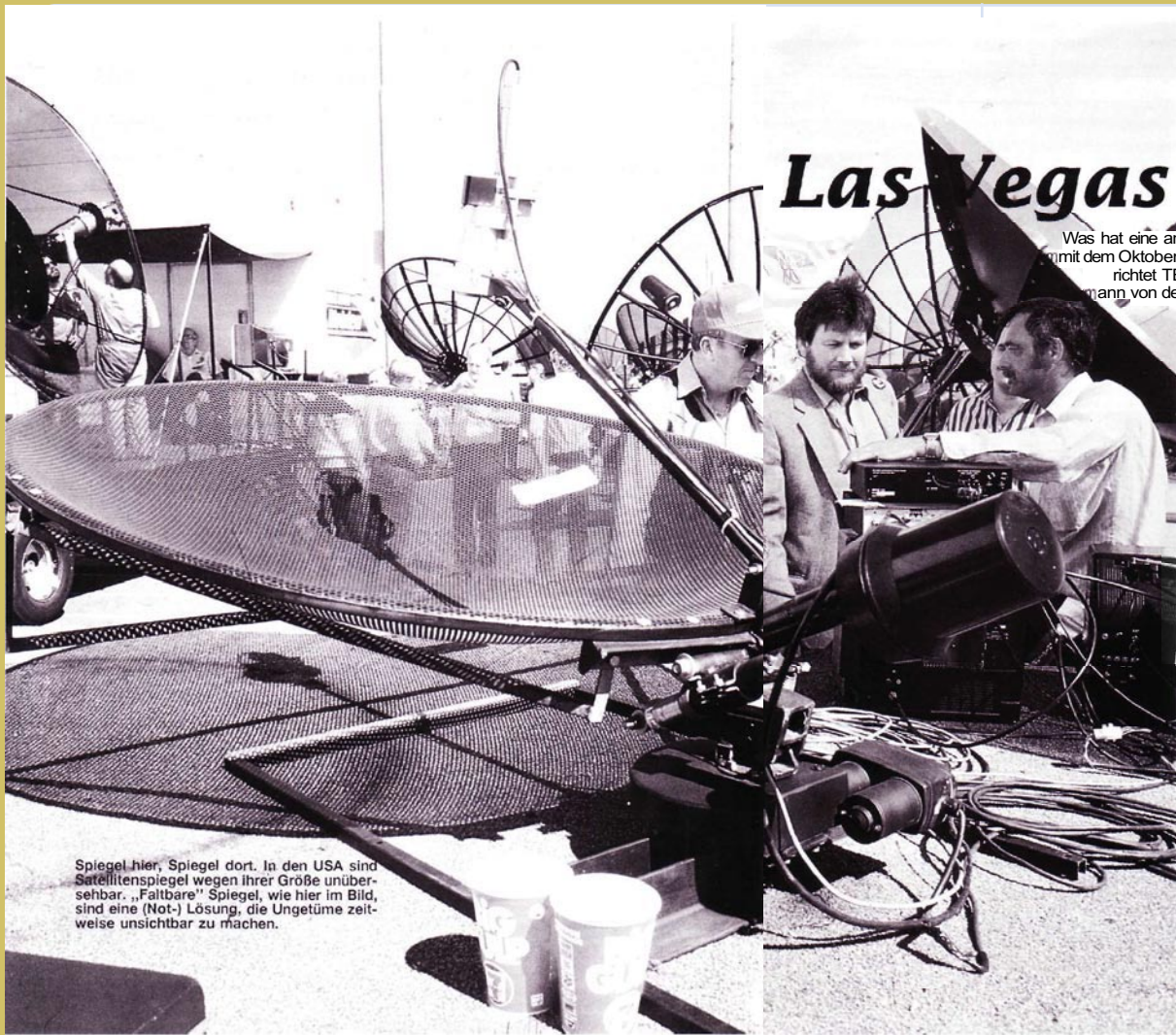
Stand: April 1988

11 GHz (Ku-Band)

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Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beam	Bildformat	Vokodiert	Telex	Services	Empfang	Leistung	Zeiten	Bemerkungen
INTELSAT VA-F11	27,5 W	MTV Europe	USA/Griechenland	englisch/italienisch	10,98	Horz	West	PAL-NEG	-	-	-	7,02 & 7,20 WEGENER-System	45 W	46	Videotext, Begleitung Stereo, Sporttime
INTELSAT VA-F10	24,5 W	Teleregio, Teleregiono, Telepando	Italien	italienisch	10,98, 10,98, 10,98	Vertikal	West	PAL-NEG	-	-	-	6,65	46	46	nur Testsendungen
INTELSAT V-F7	86 Ost	IRIB TV 1, IRIB TV 2	Iran	farsi	10,99, 11,15	Vertikal	West	PAL-NEG	-	-	-	6,50	46	46	Kultur - DX

Satellit	Position	Programme	Sendeland	Sprache	Frequenz	Polarisation	Beam	Telexfrequenz	Services	Empfang	Leistung	Zeiten	Bemerkungen		
INTELSAT VA-F11	27,5 W	BBC Worldserv	Großbritannien	englisch	11,18	Horz	West	WEGENER	7,20	7,20	7,20	45 W	24	24	Mono / Kurzwelle
INTELSAT V-F2	1 West	SFP	Schweden	schwedisch	11,13	Horz	West	Digitale MAC	-	-	-	44 W	24	24	1. Inlandsprogramm Stereo
INTELSAT V-F5	83 Ost	IRB Radio 1, IRB Radio 2	Iran	farsi	10,99, 11,15	Vertikal	West	PAL-NEG	-	-	-	6,50	46	46	Kultur - DX



USAT

Las Vegas 1988

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

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

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



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

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

Desolate Verkaufslage des US Marktes

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

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

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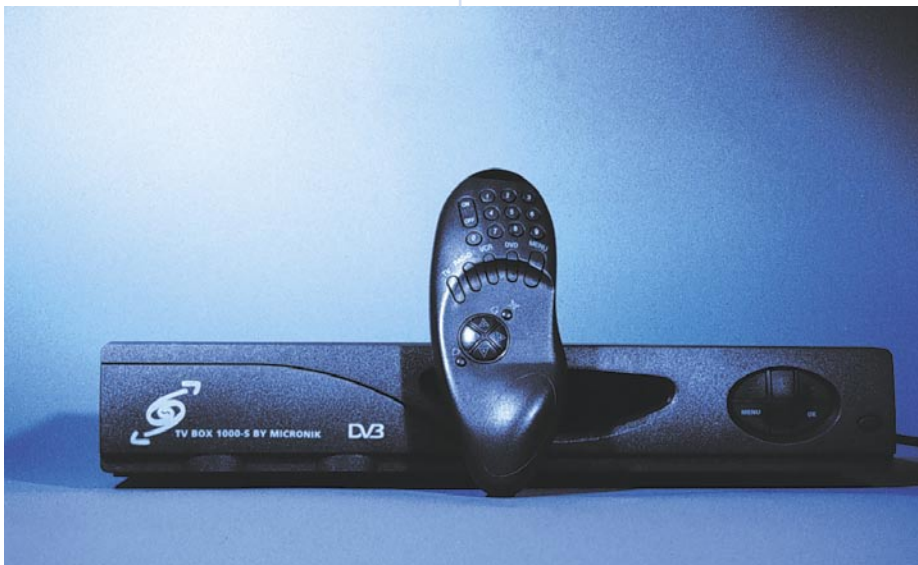
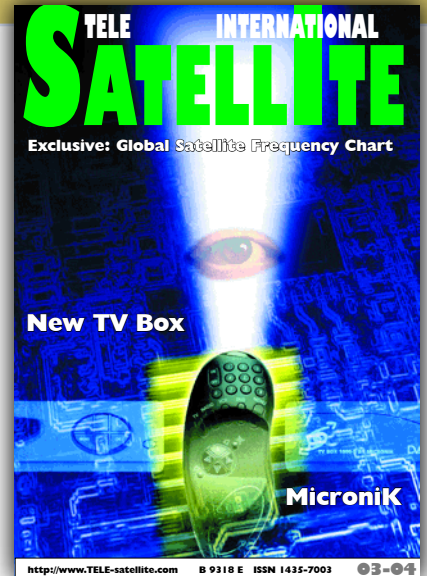
Edited by
Alexander Wiese

Mikronik TV-Box 1000-S

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

10 Years Ago

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Issue 04/1999



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

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

Telecontrol's i-Box

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





FSM 204 SAT-TV Spektrum-Analyser

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

Antennas in Poltava

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



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

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

Echostar & S.C.I.

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



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

SCI

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

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

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



Sagem ISD 3100

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

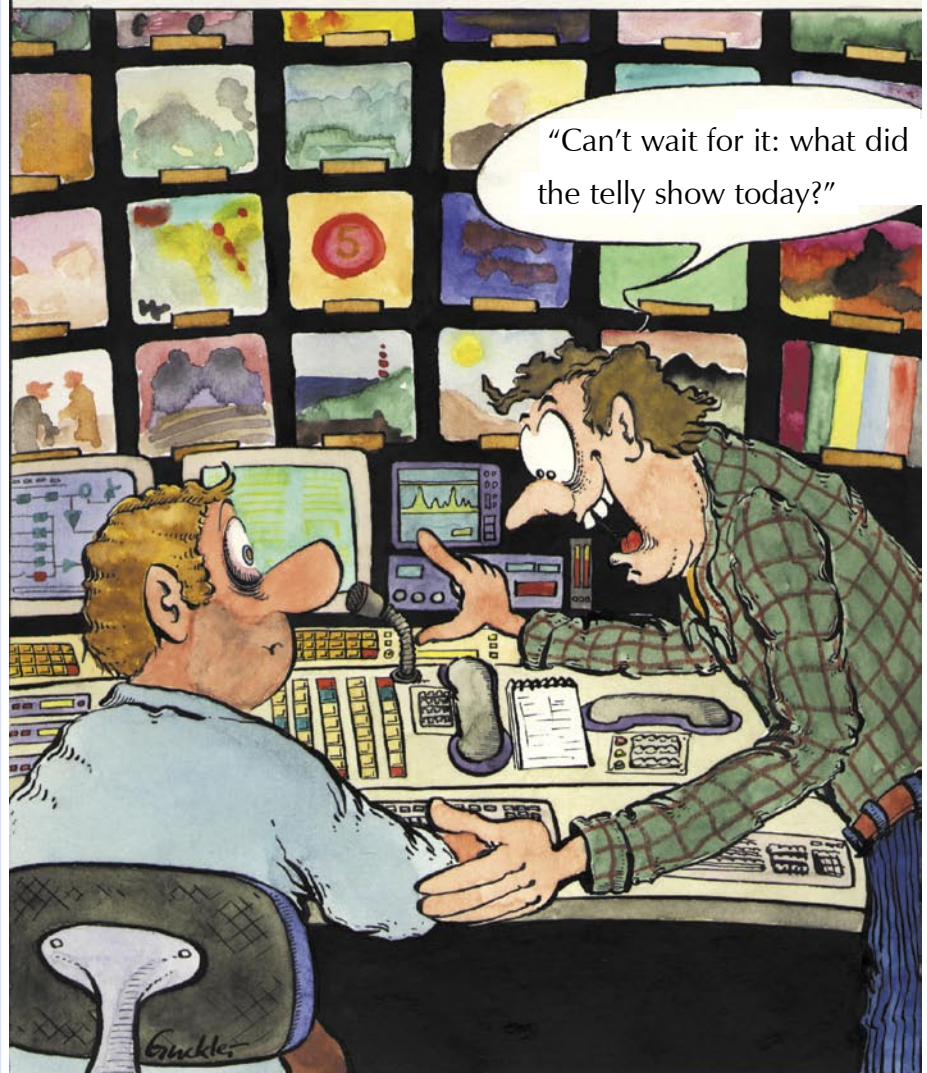
Measuring analog and digital, now and in the future

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



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

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



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