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DIGITAL PARABOLA
AL7210

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Mesh 4-segmen
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DS4H-9160

HDTV PVR dengan Dua Tuner



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Start the New year with Topfield Media Solution.

PVR



Playing recorded programmes at up to 64 times speed at maximum.

GAME



Featuring on-line game 'BATTLE TANK'.

UCC



Playing media contents of YouTube.

DivX



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

- Able to transfer media files among network users.
- Live-chatting available among network users.

www.i-topfield.com

Eksklusif untuk Pembaca TELE-satelit "Dunia Satelit" SatcoDX

Peranti Lunak "Dunia Satelit" SatcoDX mengandung data teknis dari setiap satelit seluruh dunia



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Vincent Witjhun

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Anggota Distripress

SatcoDX 04/2009

Dunia Satelit

Pemrograman Database Satelit Seluruh Dunia - Informasi Program

Software V3.12 bid sdx Creator

Daftar Satelit Seluruh Dunia
Seluruh Saluran dan Seluruh Satelit

Panduan Satelit: Saluran Apa yang Dapat
Anda Terima dari Lokasi Anda Berada
dengan Apa yang Anda Miliki?

DishTrak: Satelit Apa yang Dapat
Diterima?

Pencari Saluran: Menemukan Saluran
yang Diinginkan

Pembaruan Daftar Online:
Pembaruan Internet Kapan Saja Diinginkan

Pemrograman Receiver: Sortir dan Saring, kemudian
Upload ke Receiver yang kompatibel dengan SatcoDX

Cakupan Satelit: Melihat Wilayah Pancaran Satelit

Ekspor dan Cetak Data Daftar:
Menyimpan Daftar yang Diinginkan

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

Diproduksi Oleh: Majalah TELE-satelit & Broadband
Hanya Untuk Penggunaaan Pribadi dan Perorangan
ISSN 1861-5354
SatcoDX.com

Ekspor Database dalam sdx
Memrogram Receiver yang
Kompatibel dengan SatcoDX



GRATIS
Lampiran
TELE-satelit
01/2009

Unduh Peranti Lunak SatcoDX di sini:
www.TELE-satellite.com/cd/0904/bid

Daftar Saluran Lengkap dari setiap satelit
dengan seluruh Data Teknis

Menampilkan secara otomatis seluruh
Saluran dari Satelit yang bisa Diterima

Pemrograman Otomatis Receiver yang
Kompatibel SatcoDX

Pembaharuan Data setiap saat dari
Server Utama dan Cadangan

Mencetak Daftar Saluran dengan Gambar
Cakupan Satelit dalam format HTML

The screenshots show the SatcoDX software interface. The top part displays a world map with satellite locations. Below the map is a table of satellite channels with columns for Position Code and Satellite, Type, Ch, Freq, P, Channel Name, Coverage, and a list of channels. The bottom part shows a receiver programming window with fields for File Format, SatcoDX Industry Standard Protocol, and various settings like Power, Flow Control, and Program Receiver. There are also buttons for 'Program Receiver', 'About Programming', and 'Cancel'.



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 12-01 2009

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 هو انيك شركة SeaTel عالية الجودة صنع
 في الولايات المتحدة الأمريكية

تقرير عن شركة
 وولف ليه فلتايغ في مالتي
 الواساتل المتعددة في
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 التلسزيون الأمريكي في أوروبا
 استقبال الإرسال الفضائي في
 من أمريكا Tenerife

تقرير عن شركة
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Jiuzhou DTS6600
 HDTV PVR لجميع أفراد الأسرة

50-years celebration!

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 Antena Piringan Satelit untuk Lautan Terbuka
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 Сателитни антени за открито море
 Висококачествени антени от SeaTel
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Отчет за приемането
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 Приемане на сателитни сигнали
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50 YEARS 1958-2008

DVB-S2 High Definition Receiver With Common Interface

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一个满怀梦想的人
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Antenas de Alta Qualidade da SeaTel's
Fabricado nos E.U.A.

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Тестируем
Jiuzhou DTS6600
Персональный видео рекордер телевизионной
высокой четкости для всей семьи



Читайте журнал TELE-satellait он-лайн:
<http://magazine.tele-satellite.com/TELE-satellite-0901-rus.pdf>

SVE Världens största satellittidning # 208

TELE-SATELLIT

& BREDBAND

12-01 2009

Företagsrapport
Satellitantenner för det öppna havet
SeaTels högkvalitativa antenner
tillverkade i USA

Mottagningsrapport
Amerikansk TV i Europa
Mottagning av amerikanska
satellitssignaler på Teneriffa

Företagsrapport
En man med en vision
Den multimediala världen
hos NanoXX

Svenska

SATELLITE AWARD
12-01/2009



Testrapport
Jiuzhou DTS6600
HDTV PVR för hela familjen



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TUR Dünyanın En Büyük Uydu Donanımı Dergisi # 208

TELE-SATELLITE

& GENİŞBANT

12-01 2009

Şirket Raporu
Açık Deniz Uydu Antenleri
Son Teknoloji SeaTel
Made in USA Antenler

Sinyal Raporu
Avrupa'da ABD Televizyonu
Tenerife de Amerikan Uydu
Yayınları

Şirket Raporu
Vizyon Sahibi Bir Adam
NanoXX'da Multimedya
Dünyası

Türkçe

SATELLITE AWARD
12-01/2009



Test
Jiuzhou DTS6600
Aile Boyu HDTV PVR uydu alıcısı



Uluslararası TELE-satellite Dergisi'ni online okuyun:
<http://magazine.tele-satellite.com/TELE-satellite-0901-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

GETTING ON WELL

OPENSAT 



XT9500HD - High Definition Digital Satellite Receiver

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

ABC BIZNIS

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

www.opensat.info

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Pembaca Yang Budiman,



Jika membicarakan penerimaan satelit bebas untuk setiap warga negara, China telah lama menjadi wilayah yang tidak termasuk dalam daftar. Namun walaupun begitu, hal ini akan berubah pada tahun ini. Penerimaan satelit pribadi akan menjadi mungkin dengan diperkenalkannya DTH China, yang juga berarti teknologi penerimaan satelit akan memasuki pasaran konsumen yang sangat besar. Akan tetapi, China telah memutuskan untuk meluncurkan standar digitalnya sendiri: ABS-S. Anda bisa membaca lebih banyak tentang ini dalam laporan fitur edisi ini.

Hal ini berarti bahwa variasi standar digital masih akan bertambah. Saya masih ingat diskusi kami yang hangat di kantor TELE-satelit beberapa tahun yang lalu, ketika tv satelit digital hadir dalam MPEG-2. Sebagian besar dari kami khawatir bahwa di masa mendatang hanya ada satu jenis receiver, karena apakah dalam digital, atau tidak. Kami salah! Jika Anda melihat keberagaman teknologi digital, semua melampaui segala sesuatu yang hanya menjadi mimpi di masa analog.

Pada saat yang bersamaan, muncul bahwa standar yang berbeda dapat diintegrasikan ke dalam satu produk tunggal. Contohnya, kita mengharapkan receiver HDTV dengan DVB-S2 dapat dengan mudah menangani transmisi DVB-S biasa. Sehingga mungkin tidak terlalu lama hingga standar baru ABS-S dari China akan diintegrasikan juga ke dalam receiver DVB-S/S2. Bersiaplah bahwa paket receiver akan didekorasi dengan lebih banyak logo, merk dagang dan label daripada yang ada sekarang.

Keuntungan besar dari ABS-S adalah bahwa standar ini merupakan pengembangan yang sangat baru, yang berarti akan bekerja lebih efisien daripada DVB-S. Ini adalah kemewahan dari kesabaran dan menunggu. Teknologi

berkembang setiap saat dan dalam kebanyakan hal standar baru juga selangkah lebih maju. Akan sangat menarik untuk memantau bagaimana ABS-S akan mendapatkan pasaran di luar China. Untuk beberapa perluasan, hal ini bergantung pada kebijakan lisensi untuk ABS-S, namun umumnya akan ditentukan oleh pabrikan di China yang mampu menurunkan biaya lebih lanjut, karena mereka memiliki pasaran yang sangat besar di China. ABS-S bisa saja menjadi pesaing DVB-S2, yang juga hadir dengan janji untuk menurunkan biaya karena kebutuhan bandwidth yang lebih kecil.

Peluncuran siaran DTH di China pada saat yang sama membuka pasaran China untuk seluruh perusahaan satelit lainnya – meskipun sebagian besar pemain telah berada di China. Apa yang pasti adalah bahwa industri satelit akan mendapatkan tambahan kekuatan, yang sendirinya menjadi kabar baik dalam mengatasi penurunan ekonomi saat ini. Akan ditunjukkan bahwa selalu terdapat tempat untuk perluasan – Anda hanya perlu menawarkan produk yang tepat pada saat yang tepat untuk pasar yang tepat.

**Salam,
Alexander Wiese**

P.S.: Saluran radio favorit saya bulan ini adalah Peppermint FM, stasiun baru dari Jerman di Astra 19,2° BT (12,633 H) dengan berbagai jenis musik non-stop, tidak ada siaran berita dan hanya sedikit promosi sendiri dengan slogan radio 'Tetap segar dan muda.'

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HD2.0

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



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

Dolby Digital Down-Mix Output Support (*Optional)

Conax CAS v7 Embedded Chipset Pairing

Cable HD Ready Support (for Cable STB only)

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

Software Upgrade via USB 2.0

YPbPr, CVBS, HDMI, SCART Video Output Support

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

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

Easy and Fast Auto Programming, Intuitive User Interface

Multi Language Support(Customer Option)

HD2.0 Slim



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NEW TECHNOLOGIES – NOW ON STOCK



We are official **HUMAX** distributor

TOPFIELD **NEW** Topfield Media Solution



Features available at launch

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



PVR
Playing recorded programmes up to 64 times speed at maximum



GAME
Featuring a double-player game „Battle Tank“



UCC
Playing media contents of YouTube



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

Experience the future of digital receiver

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

Features will be available by firmware updates

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



TOPFIELD **NEW** TF 5050CI HDMI



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



TOPFIELD **NEW** TF 6500T HDMI



DVB-T Receiver

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

TF 6000 FE

Digital Satellite Receiver

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

Measuring Instruments

emitor MEGALOOK

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



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

- ALSO AVAILABLE:**
- Combolook
 - Digital Satlook NIT
 - Satlook Micro +
 - Satlook Mark IV

emitor DIGISAT PRO ACCU

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



ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB



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

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

Satlook Micro G2 **NEW**



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

ALSO AVAILABLE:

Upgrade-KIT for Satlook Micro **NEW**

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

Satlook Micro G2 upgrade contains:

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

HUMAX F3 FOX CI



Digital Satellite Receiver with CI Slot

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

NETWORK streaming client

EMANVISION EV-8000S



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

PCMCIA-Modules

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



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

Satlook NIT Color **NEW**



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

Türkçe konuşan personele sahibiz !

Мы говорим и даём консультации на русском языке!



HDTV Receiver Selection

HUMAX

iCORD



Twin HDTV PVR Receiver

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

TOPFIELD

TF-7700 HD PVR



HDTV Digital Satellite Receiver with Personal Video Recorder

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

TOPFIELD

TF-7700 HSCI / TF-7700 HCCI



HDTV for satellite and cable reception

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

Motors

Aktuatoren/ Actuators

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



H-H Mounts

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

LNBs

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



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

MAXIMUM

V-Series



AVAILABLE AS:

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

Full LNB range MAXIMUM available from stock

Multiswitches / DiSEqC - Switches

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



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

sa SPAUN Full Range

Parts

Multifeederholder for 2, 3, or 4 LNB



Wallmounts

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



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

Remotesystems

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



Koaxialcable

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



invacom QDH 031



AVAILABLE AS:

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

Full LNB range INVACOM available from stock

MICROELECTRONICS TECHNOLOGY INC.

High-Line-Series



AVAILABLE AS:

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

- 40 mm
- 0,2 dB

Full LNB range MTI available from stock

Inverto digital-labs **NEW**

IDLP UST110-CUO10-8PP

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



Dishes

CIBERTINI TRIAX emme esse

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

Big Dishes directly from our warehouse!

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

Flat-Dishes **NEW**

SELSAT H 10 D

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

MAXIMUM Flat-1

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

Multifocus Dish

MAXIMUM

E-85 Multifocus 48° Dish



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

Balcony mounting parts

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



ALSO AVAILABLE:

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

Maintenance for your satellite installations

Heinz Koppitz

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



Exchanging the LNB

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

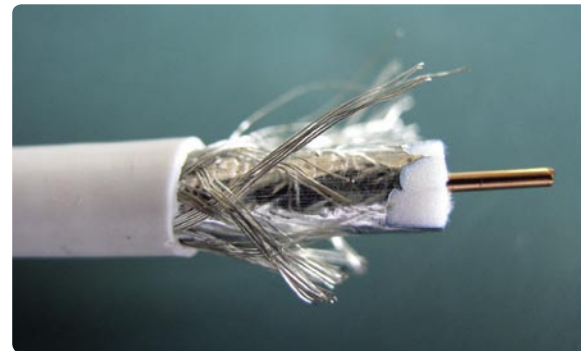
LNBs are subjected to the elements and their performance suffers if moisture cannot be kept outside. But even if your old LNB is still fine it's well worth getting a modern universal LNB with a low noise figure (0.3 dB), which will improve the threshold of your system in any case.



Single screening cable ■

Exchanging the coax cables

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



Double screening cable ■

Aligning the satellite antenna

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

SatFinder ■





Difference from your competitors



Colorful Mesh Dish as you need

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



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

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

Jacek Pawlowski

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

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

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

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

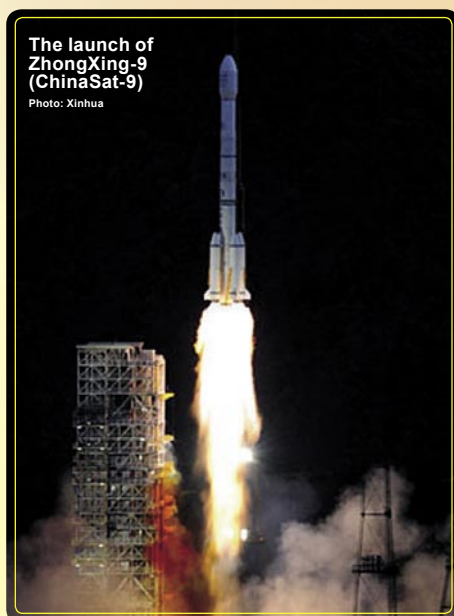
It all started back in June 2002 when the Chinese AVS standard has been published. AVS stands for Audio Video coding Standard. AVS compared to MPEG has some advantages. It has twice or three times the coding efficiency of the traditional MPEG-2 - so it is closer to H.264 (popularly called MPEG-4). However,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

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

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

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

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



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



ZX 9 (Chinasat 9)
Photo: Thales Alenia Space



Dizipia DS4H-9160

Lebih Besar dan Lebih Baik

Mungkin tidak mendapat nama yang lebih menarik, tetapi DS4H-9160 dari Dizipia pabrikan Korea membuat pernyataan yang mantap atas ukuran dan penampilannya. Receiver dengan warna hitam lebih besar dengan ukuran lebar 43cm, kedalaman 28cm dan tinggi 6cm serta kotak logam yang kokoh berarti cukup berat juga. Panel depan yang mengkilap terdapat tampilan informasi saluran yang jelas.

Kendali jarak jauh juga lebih besar dari biasanya, berukuran 24x5cm. Peranti ini bisa diprogram untuk mengoperasikan TV, selain mengendalikan receiver, dan ini bisa diatur dengan cepat dan mudah untuk TV saya dengan kode yang terdapat di buku petunjuk. Untuk membuatnya bekerja kali ini saya tidak perlu menjelajahi internet untuk mendapatkan

kode tambahan! Kendali jarak jauh dengan tata letak yang jelas, dan tombolnya mempunyai klik yang mantap ketika ditekan, tetapi padasaat yang sama tidak memerlukan tekanan lebih untuk membuat koneksi seperti pada jenis lainnya. Mengimbangi kepastian penekanan setiap tombol, tombol STB atau TV akan menyala jika ada tombol yang ditekan.

Fitur lain di panel depan adalah lampu merah kecil yang tidak biasa. Sekilas pandang lampu ini terlihat hanya sebagai indikator, namun sebenarnya lampu ini adalah tombol kecil, dan melalui tombol ini sebagian besar fungsi penting receiver dapat dikendalikan. Panel depan juga dilengkapi dengan dua rongga CI dan terminal USB di balik flap sebelah kanan.

Di bagian belakang terdapat seluruh pilihan koneksi yang diperlukan. Masukan antena untuk kedua tuner memiliki keluaran loop-through, dan tuner pertama bisa diteruskan ke tuner kedua jika hanya tersedia satu antena. Kabel loop-through pendek disertakan dalam paket untuk melakukan koneksi ini. HDMI dan S/PDIF tersedia untuk video dan audio digital, beserta dua Scart, RCA video komponen dan komposit serta audio stereo. Juga terdapat konektor USB lain di panel belakang, serta RS232 dan bahkan terminal Ethernet, meskipun tidak ada informasi dalam buku petunjuk untuk menjelaskan bagaimana menggunakannya.

Set-up

Menghubungkan receiver dibuat mudah dengan bantuan diagram yang jelas di dalam buku pedoman. Masing-masing konektor digambar dan setiap pilihan dijelaskan. Satu hal penting yang bisa menyebabkan kebingungan dibuat jelas: jika hanya satu antena yang digunakan



sehubungan dengan kabel loop-through, perpindahan saluran pada saat direkam terbatas hanya pada saluran dari transponder yang sama. Kedua masukan LNB juga bisa diatur untuk satelit yang berbeda, sehingga dua antena tetap yang berbeda juga menjadi pilihan, hal ini juga dibatasi pada apa yang bisa ditonton dan direkam pada saat yang sama.

Pertama kali menyalakan receiver ini, kami langsung menuju ke panduan instalasi yang terdapat waktu setempat, zona waktu dan bahasa yang diinginkan.

Terdapat pilihan bahasa yang terbatas di sini – untuk menu dan pesan hanya tersedia Bahasa Inggris, Jerman dan Rusia. Anehnya, daftar bahasa untuk audio dan teks terjemahan berbeda. Pilihannya adalah Bahasa Inggris, Jerman atau Perancis.

Selanjutnya beralih ke layar pencarian saluran, di sini terdapat pengaturan terhadap satelit yang dipilih dan dilacak untuk

pertama kalinya. Mendukung antena bermotor DiSEqC dan USALS. Adalah pekerjaan yang mudah memberitahukan receiver lokasi dengan garis lintang dan garis bujur sehingga dapat dihitung posisi satelit yang ingin diterima.

Daftar satelit yang telah diprogram di dalam receiver sangat mengesankan – terdapat sekitar 170 satelit! Saya menantang Anda untuk

menemukan salah satu yang belum ada di daftar ini, namun jika terdapat yang belum atau satelit baru di masa mendatang, satelit bisa diedit, ditambah dan dihapus sesuai kebutuhan. Frekuensi transponder untuk satelit cukup terkini.

Pemindaian saluran juga cepat dengan pemindaian lengkap pada ASTRA 2 hanya memerlukan waktu delapan menit. Setelah saluran disimpan dalam memori, tersedia pilihan fungsi untuk edit dan sortir.



DiZiP A

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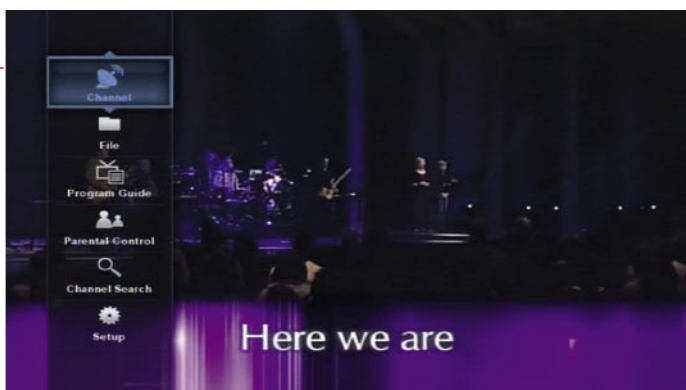
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Available online starting from 30 January 2009



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



Menu utama



Info saluran

Daftar saluran penuh dapat diakses dengan menekan tombol "OK" ketika menonton TV. Daftar ini segera dapat disortir menurut abjad, status acak atau FTA, atau tetap dalam posisi semula berdasarkan nomor saluran. Dengan menekan tombol fungsi "zoom", daftar saluran dapat dialihkan antara memenuhi seluruh layar atau hanya bagian sebelah kiri, sehingga gambar TV dapat dilihat pada saat bersamaan.

Seluruh fungsi edit juga diakses dari sini sehingga lebih mudah daripada harus masuk ke menu edit tertentu. Saluran dapat dipindah ke atas atau bawah daftar sesuai keinginan. Banyak daftar favorit yang bisa diatur sesuai kebutuhan, dan menambah dan edit juga mudah dilakukan.

Bagi keluarga yang memiliki anak, terdapat dua pilihan untuk kendali orang tua – sandi tradisional atau kemampuan untuk menyembunyikan saluran tertentu sampai sandi diisikan. Sebagai tambahan pada fitur ini, Anda bisa membatasi saluran yang bisa ditonton ke dalam satu daftar favorit atau mengatur waktu sebelum receiver mati sendiri – untuk menghentikan anak-anak duduk di depan TV sepanjang hari! Pilihan terakhir

untuk membatasi acara berdasarkan kelas umur, meskipun ini sepenuhnya bergantung pada penyiar memancarkan informasi kelas umur yang tepat.

Fungsi Hard disk

Karena siaran HD menggunakan banyak data dan transfer data kecepatan tinggi adalah penting, maka antarmuka SATA digunakan dalam receiver ini, bukan

IDE tradisional. Model yang kami uji ini sayangnya dikirim tanpa hard disk terpasang di dalamnya, sehingga hal ini memberikan kami kesempatan untuk menguji koneksi hard disk di terminal USB.

Saya tidak begitu yakin, namun hard disk USB lama yang dihubungkan ke terminal USB di belakang membuktikan bahwa saya salah, karena dapat bekerja tanpa masalah, termasuk perekaman saluran HD. Akan tetapi terdapat juga beberapa kali di mana gambar menjadi sedikit kasar sebagaimana yang Anda bayangkan. Akan tetapi menonton saluran HD dan merekam saluran lainnya di hard disk USB dimungkinkan, jika tidak 100% sempurna.

Hard disk eksternal menggunakan sistem file FAT32 standar, sehingga mudah dan langsing bisa membuat cadangan dan mengirimnya ke komputer. Pengelola file di receiver dengan mudah dijelajahi bagi siapa saja yang pernah menggunakan komputer, dengan struktur file dan folder dan bahkan "... " untuk kembali ke direktori asal.

Fungsi hapus otomatis

dapat digunakan untuk menghapus rekaman lama jika kapasitas hard disk sudah tidak mencukupi. Dengan sistem seperti ini, kehilangan rekaman penting selalu menjadi kekhawatiran. Syukurlah terdapat pilihan untuk melindungi rekaman sehingga tidak akan dihapus tanpa sengaja atau oleh fungsi hapus otomatis. Kendali orang tua atas hasil rekaman juga disediakan melalui perlindungan sandi.

Timeshifting juga tersedia untuk tayangan TV. Yang diperlukan hanyalah dengan menekan tombol pause, setelah ini kendali rewind dan fast-forward menjadi tersedia. Fungsi tambahan membagi acara yang telah direkam ke dalam segmen seperti bab pada DVD, membuat penjelajahan lebih mudah daripada harus menggulung sepanjang acara yang telah di-timeshift. Waktu standar untuk acara yang direkam sementara adalah 30 menit, namun pengaturan ini bisa diubah hingga maksimum dua jam.

Sumber kecewa mungkin ada pada kurangnya fungsi edit. Adalah lebih membantu jika memiliki beberapa kendali dasar untuk menghilangkan



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iklan dalam rekaman dan sayangnya tidak ada fungsi seperti ini. Sebagai penggemar olahraga, saya juga kehilangan pilihan pemutaran gerak-lambat yang biasanya sering saya gunakan.

Penggunaan Sehari-hari Menjelelahi satelit, saluran dan menu receiver cukup mudah, meskipun tidak begitu leluasa seperti yang ada pada receiver lain. Misalnya, meskipun telah cukup lama menggunakan receiver ini saya masih bingung dengan tombol "back" yang tidak mengembalikan menu ke posisi sebelumnya! Tombol "menu" juga tidak melakukan hal ini sebagaimana yang saya harapkan. Namun tombol "exit" yang melakukannya, yang terakhir kadang-kadang – pada saat lain tombol "back" melakukan apa yang dikatakan dan keluar dari sistem menu sepenuhnya.

Kualitas gambar merupakan isu besar bagi receiver HD dan kualitas HD yang berasal dari Dzipia sesuai harapan. Gambar definisi standar juga di-upscale ketika ditonton dalam resolusi HD dan hal ini menambah sedikit kualitas pada gambar dibandingkan dengan RGB Scart. Terdapat tombol khusus yang sangat membantu pada kendali jarak jauh untuk berpindah resolusi dengan cepat. Tambahan ini diambil dari ide yang ada di dunia komputer. Setelah resolusi diubah,

sebuah kotak muncul di layar untuk mengkonfirmasi bahwa Anda bisa melihat gambar. Default-nya adalah "tidak", sehingga jika Anda mendapatkan tidak ada gambar yang bisa dilihat, tekan saja tombol OK dan akan kembali ke resolusi sebelumnya. Tersedia dua mode yaitu progresif maupun interlaced, dengan rentang baris scan dari 480 hingga 1080.

Siaran layar lebar cukup biasa dewasa ini dan menarik dilihat bahwa seluruh pilihan ada di sini. Untuk menonton siaran layar lebar pada layar 4:3, tersedia mode letterbox dan pan/scan. Sebaliknya, siaran 4:3 pada layar 16:9 dapat ditonton dengan batangan hitam di kedua sisi, atau di-zoom jika diperlukan. Bahkan terdapat tombol khusus pada kendali jarak jauh, untuk beralih mode antara 16:9 dan 4:3.

Saya memiliki kesulitan untuk membuat EPG berfungsi, kemungkinan besar karena EPG ini memerlukan hard disk internal untuk menyimpan data. Diasumsikan EPG ini akan berfungsi sebagaimana mestinya pada model produksi, yang terdiri dari seluruh fungsi yang telah diinginkan dan diharapkan. Acara yang akan datang bisa diatur untuk perekaman, atau hanya untuk ditonton. Seperti halnya daftar saluran, tombol biru bisa digunakan



Menu pengaturan TV |



EPG |

untuk membesarkan tampilan EPG antara layar penuh atau hanya sebagian. Acara yang telah diatur untuk direkam bisa dipasang kendali orang tua pada waktu telah dicadangkan. Juga tersedia perekaman berdasarkan pengatur waktu tradisional.

Penjelajahan saluran juga cepat, dan dengan adanya penerapan layar lebar yang baik. Setelah disusun berdasarkan urutan yang diinginkan, atau dimasukkan ke dalam daftar favorit, penjelajahan saluran menjadi mudah. Tombol "back" akhirnya menemukan kegunaannya di sini, menekan tombol ini akan kembali ke saluran yang ditonton sebelumnya. Tersedia teletexts, dan tombol

khusus pada kendali jarak jauh memberikan akses ke teks terjemahan dan track audio tambahan.

Terdapat fitur novel untuk pengguna sistem TV-berbayar. Biasanya, jika siaran acak direkam, kartu diperlukan untuk menonton hasil rekaman. Namun, terdapat fungsi "buka acak" khusus. Pada waktu yang telah ditentukan, misalnya ketika Anda sedang tidur, receiver akan bekerja pada file hasil rekaman dan menghilangkan acaknya. Tentu saja kartu yang sah tetap diperlukan untuk membuka acak tayangan tersebut.

Karena terdapat dua terminal USB, sangat mudah



untuk menghubungkan salah satunya ke hard disk, dan terminal yang satunya untuk peranti USB lain. File audio MP3 bisa diputar, dan gambar terlihat mantap di layar HD besar.

Kesimpulan

Ini adalah receiver yang memiliki sejumlah pilihan koneksi dan kemampuan. Setelah menggunakannya, terasa bahwa receiver ini seperti mobil sport dengan pembatas kecepatan pada

mesinnya, bahwa peranti lunaknya tidak sepenuhnya dikembangkan sebagaimana mestinya. Penjelajahan menu kadang-kadang terasa agak melelahkan karena tidak intuitif seperti pada receiver PVR lainnya.

Akan tetapi di sisi positifnya, kinerja gambar yang bagus, mudah dalam perubahan ukuran gambar dan ketajaman dengan tombol khusus dan rongga CI, untuk pemakaian PVR sehari-hari, receiver ini dapat melakukan tugasnya cukup baik.

Opini Ahli

+

Dua tuner dengan pilihan antena dan koneksi yang lengkap, kendali buka-acak, dukungan penuh untuk layar lebar dan resolusi HD.

Pembaruan peranti lunak dan rekaman ke komputer via Ethernet

Perekaman 2 saluran dan pemutaran 1 file hasil rekaman

Timeshifting yang segera

Menu OSD 32-bit warna

Menu operasi yang mudah

Sistem Operasi Linux

Mendukung resolusi video 1080p



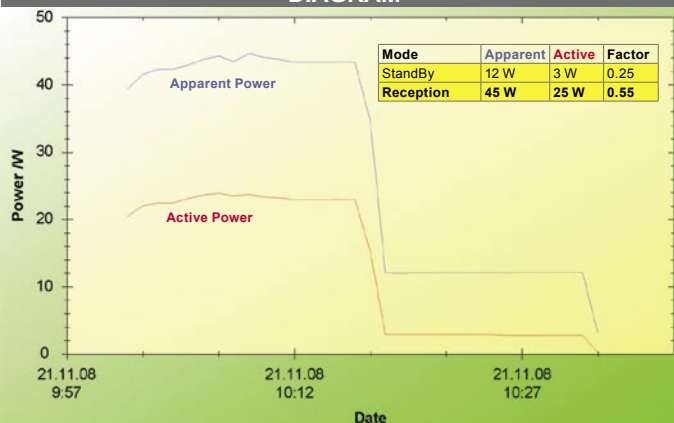
Andy Middleton
TELE-satellite
Test Center
UK

-

Sistem menu yang tidak intuitif

Tidak bisa mengedit hasil rekaman

ENERGY DIAGRAM



Daftar file hasil rekaman |



Pemutaran file hasil rekaman |

TECHNIC DATA

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



Topfield TF6000PVR ES

Cantik Luar dan Dalam



TV definisi tinggi telah memulai parade kemenangan dengan jaya. Namun jika Anda memantau statistik dari www.SatcoDX.com, Anda akan melihat kenyataan yang mengecewakan: HOTBIRD, misalnya, di posisi 13° BT memiliki sejumlah 29 saluran HDTV dibandingkan dengan 1.355 saluran SDTV dalam PAL. Terdapat banyak alasan untuk hal ini, tetapi sebagian besar karena keuangan; bandwidth menelan biaya dan jika penyedia telah menawarkan layanan dalam SDTV, mereka hanya akan menawarkan HDTV sebagai fitur tambahan. Bagi pengguna-akhir hal ini berarti bahwa meskipun telah memiliki TV layar datar modern, dia akan masih menonton saluran SDTV dan jika pada TV besar, kualitas gambar tidak akan begitu bagus.

Masalah ini diketahui oleh Topfield, pabrik dari Korea Selatan. Mereka hadir dengan solusi yang sangat cerdas pada receiver baru TF6000PVR ES. Sangat mirip dengan TF6000PVRE, terkecuali hanya pada satu fitur yang penting: upscaler.

Upscaler ini mengolah sinyal masukan dan meningkatkan resolusinya dengan interpolasi piksel yang hilang sehingga tidak terjadi raster, sesuatu yang tidak bisa dihindari dengan peningkatan sederhana pada resolusi. Kami ingin menguji receiver ini untuk melihat seberapa bagus kerja fitur ini.

Ketika kami membuka kotak paket, kami mendapatkan bahwa TF6000PVR ES tidak selebar yang kami harapkan. Sedangkan model sebelumnya TF6000PVRE hadir dengan ukuran lebar 43cm yang



kompatibel dengan rak, maka TF6000PVR ES ini hanya berukuran lebar 38cm. Namun ukuran yang lebih kecil ini tidak mengurangi kegunaannya.

Pada bagian tengah panel depan terdapat tampilan VFD yang sangat mudah dibaca; di sebelahnya terdapat tiga tombol untuk kendali receiver jika tidak tersedia kendali jarak jauh. Empat tombol untuk kendali volume dan perpindahan saluran ditempatkan dengan bentuk lingkaran berwarna perak. Semua tombol ini bersama tombol Standby tampak cukup mengesankan.

Di belakang flap di sebelah kanan dapat ditemukan dua rongga CI untuk penerimaan TV-berbayar. Rongga ini bisa menerima seluruh modul yang ada seperti Irdeto, Viaccess, Seca, Conax, Nagravision atau Cryptoworks dan bekerja tanpa masalah. Sebagaimana yang diharapkan, panel belakang TF6000PVR ES terdapat berbagai koneksi. Sebagai tambahan pada masukan IF satelit dan keluaran looped-through di kedua tuner, Anda juga akan menemukan keluaran HDMI, dua konektor Scart, tiga colokan RCA dengan keluaran video dan audio stereo, keluaran S-Video, keluaran audio digital optikal, colokan USB 2,0 dan antarmuka Ethernet. Meskipun sudah jarang digunakan saat ini, antarmuka RS-232 juga tersedia untuk koneksi ke komputer.

Kendali jarak jauh yang disertakan enak digenggam dan diberi label dengan jelas, serta semua tombol mudah dijangkau. Sama dengan receivernya sendiri, kami juga menyukai rancangan kendali jarak jauh ini. Buku panduan, sebagaimana diharapkan dari Topfield, ditulis dengan sangat jelas, diberi ilustrasi yang memadai dan menjawab pertanyaan yang mungkin saja timbul pada saat menggunakan receiver.

Penggunaan Sehari-hari

Setelah menyalakan receiver untuk pertama kalinya, receiver Topfield yang baru ini mulai menampilkan menu utama dan meminta pengguna untuk mengatur receiver sesuai dengan keinginannya, seperti menyesuaikan sistem antena,

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Russian	Русский	www.TELE-satellite.com/TELE-satellite-0903/rus/topfield.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0903/sve/topfield.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0903/tur/topfield.pdf

Available online starting from **30 January 2009**

sebelum menggunakannya untuk pertama kalinya. Tidak ada bantuan instalasi, tetapi kenyataannya benar-benar tidak diperlukan karena struktur menu dari Topfield ini mempunyai tata letak yang sangat logis, bahkan bagi pemula sekalipun akan mampu menemukan jalannya. Permintaan pertama adalah mengatur bahasa menu OSD dalam pengaturan sistem.

TF6000PVR ES hadir dengan beberapa pilihan bahasa: Jerman, Inggris, Perancis, Spanyol, Arab, Yunani, Turki, Denmark, Swedia, Norwegia, Belanda, Polandia, Persia, Finlandia, Czech dan Bulgaria. Setelah pemilihan bahasa, pengguna bisa beralih ke menu lainnya.

Seperti halnya pada receiver lain, TF6000PVR ES juga



Menu utama pada TF6000PVR ES yang dirancang dengan bagus



bisa mengatur waktu secara otomatis via satelit. Tidak seperti model pesaingnya, Topfield menyediakan sejumlah pengaturan yang berbeda. Contohnya, sumber dari pengaturan waktu bisa dibatasi hanya pada saluran yang diacak atau bahkan pada masing-masing transponder. Sayangnya, fitur ini diperlukan mempertimbangkan banyak penyedia layanan selain DTH tidak perlu mencantumkan waktu yang tepat dalam siarannya sehingga menyebabkan receiver mendapatkan informasi waktu yang salah. Bahkan waktu standar dan daylight savings time dapat diaktifkan hanya dengan menekan satu tombol; Anda tidak perlu lagi khawatir dengan selisih waktu terhadap GMT. Tentu saja, waktu dan tanggal bisa diatur secara manual. TF6000PVR ES beroperasi dengan jam real-time – tetap menjaga waktu yang benar meskipun setelah dimatikan, tidak seperti receiver lainnya, akan tetap bisa memulai pengatur waktu rekaman secara otomatis setelah dimatikan.

Dengan adanya upscaler terintegrasi, TF6000PVR ES sangat sesuai digunakan dengan TV layar datar modern. Receiver ini hadir dengan keluaran HDMI sehingga

receiver ini bisa mengkonversi sinyal video menjadi 576p, 720p atau 1080i. Untuk membuatnya lebih mudah, pengguna bisa membuat perubahan ini secara langsung menggunakan tombol khusus di kendali jarak jauh tanpa harus masuk ke menu.

Jika Anda masih ingin menghubungkan receiver Topfield yang baru ini ke TV dengan keluaran Scart, dapat menggunakan RGB, CVBS, S-Video atau YUV. Tampilan gambar dapat diatur pada 4:3 atau 16:9. Model tampilan tambahan tersedia untuk tayangan 4:3 yang ditonton di TV 16:9. PAL dan NTSC didukung dan peralihan secara otomatis sehingga penerimaan TV di Amerika dan di Eropa atau sebaliknya tidak menjadi masalah. Dengan adanya upscaler, juga dimungkinkan untuk mengatur ukuran gambar +/- 20% sehingga gambar akan disesuaikan dengan sempurna bergantung pada TV yang digunakan.

Setelah semua pengaturan ini telah diselesaikan, selanjutnya receiver dapat disesuaikan dengan sistem antena yang digunakan. Dua tuner dapat dipasang dengan sinyal satelit yang terpisah – ini adalah aplikasi yang ideal – atau bisa berbagi kabel masukan yang sama. Variasi kedua ini memiliki

keterbatasan pada satu tuner jika perekaman dilakukan pada tuner lainnya. Pembatasan ini tidak terjadi jika menggunakan sinyal satelit terpisah.

Receiver Topfield yang baru ini telah diprogram dengan daftar 156 satelit dari Eropa, Asia dan Amerika. Posisi satelit yang lebih populer di daftar tersebut cukup terkini, meskipun perlu dilakukan penghapusan untuk posisi yang sudah tidak aktif lagi.

Kami khususnya menghargai sejumlah kemungkinan pengaturan yang biasanya bisa diatur untuk masing-masing satelit. Terdapat sejumlah pilihan nilai LOF (local oscillator frequency) yang telah terprogram, jika diperlukan juga tersedia masukan LOF secara manual. Hal ini memungkinkan Anda untuk menggunakan LNB tidak-standar pada receiver ini. Seluruh protokol DiSEqC yang tersedia telah terintegrasi sehingga multi-posisi satelit dapat diterima. DiSEqC 1.0 memungkinkan penerimaan hingga empat satelit, 1.1 dapat digunakan untuk antena multi-fokus hingga 16 LNB serta terdapat 1.2 dan 1.3 (USALS) untuk pengendalian antena bermotor.

Setelah parameter ini telah

diatur, langkah selanjutnya adalah mengisi memori receiver yang berkapasitas 5000 saluran (TV 3500, Radio 1500). Tugas ini bisa ditangani tidak hanya dengan pemindaian manual, tetapi tentu saja, dengan pemindaian otomatis dengan bantuan data transponder yang telah terprogram. Terdapat juga perluasan pemindaian dengan mengisi PID secara manual. Sebagaimana pemindaian lainnya, pemindaian jaringan juga bisa dibatasi untuk saluran yang hanya FTA atau diacak.

Kecepatan pemindaian saluran pada receiver ini juga cukup mengesankan: hanya sekitar empat menit diperlukan untuk satelit uji 100+ transponder. Jangan lupa bahwa TF6000PVR ES bukanlah receiver HDTV sehingga tidak bisa menerima sinyal DVB-S2 dan/atau MPEG4/H.264. Receiver ini melakukan pengambilan sinyal SDTV standar dan meng-upscale-nya menjadi gambar yang berkualitas lebih baik dan bisa ditonton di TV LCD atau plasma modern.

Setelah memindai salah satu dari satelit DTH terbesar, sepertinya daftar saluran akan dipenuhi dengan ratusan saluran yang mungkin saja tidak diinginkan oleh



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pengguna, misalnya, saluran tersebut diacak sehingga tidak bisa ditonton. Untuk alasan seperti ini sehingga diperlukan pengaturan daftar saluran agar sesuai dengan keinginan pengguna. Untuk beberapa tahun Topfield telah menunjukkan ke dunia bagaimana hal ini dilakukan dan tidak berbeda pada TF6000PVR ES. Saluran di dalam daftar dapat dengan mudah dihapus, diganti namanya, dipindahkan atau dikunci dengan kode PIN sehingga saluran yang tidak sesuai tidak bisa diakses oleh anak-anak. Daftar tersebut dapat disortir secara otomatis dengan beberapa cara yang berbeda dan saluran yang populer dapat dipindahkan ke sejumlah daftar favorit, sehingga mudah ditemukan hanya dengan menekan satu tombol di kendali jarak jauh.

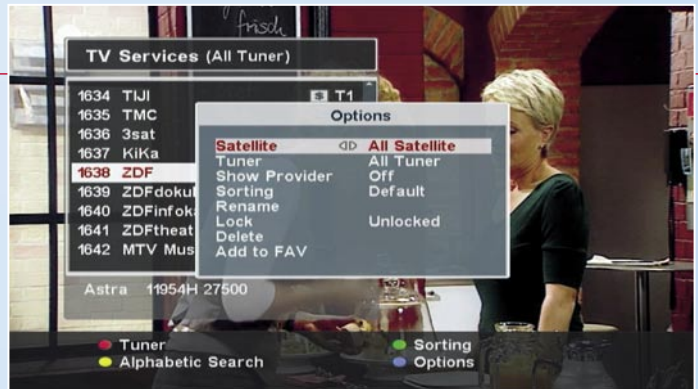
Setelah seluruh pengaturan ini telah dilakukan dan pemindaian telah diselesaikan, pengguna bisa keluar dari menu utama dan receiver akan beralih ke saluran pertama di dalam daftar. Dengan munculnya saluran pertama, Info bar juga tampil untuk menyediakan informasi saluran dan parameter teknis serta fitur yang ada (audio DD, teks terjemahan, teletexts, sistem acak, dsb.) serta informasi pada acara yang sedang berlangsung - diasumsikan, tentu saja, bahwa data ini tersedia oleh penyiar. Info bar ini juga muncul jika berpindah saluran.

Menekan tombol Info akan menampilkan informasi yang diperluas untuk acara yang

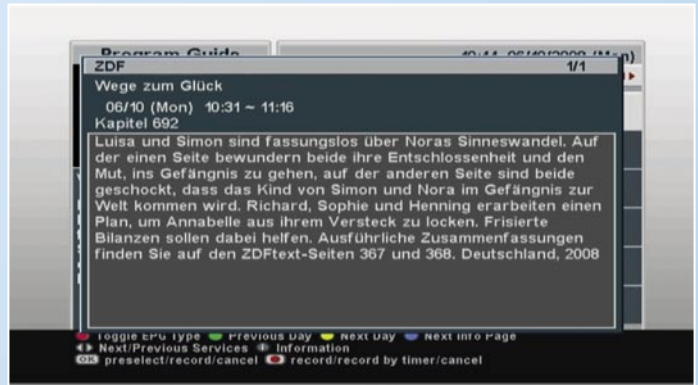
sedang ditayangkan. Tombol Guide akan menampilkan tinjauan acara mendatang termasuk informasi acara yang detail untuk seminggu ke depan. Lagi, ini diasumsikan bahwa penyiar membuat data ini tersedia. Terdapat juga dua mode tampilan yang bisa dipilih oleh pengguna. Yang khususnya praktis adalah kemampuan untuk memrogram pengatur waktu untuk merekam langsung dari EPG. Yang diperlukan hanyalah menekan tombol untuk menandai acara untuk direkam.

Daftar saluran yang detail pada Topfield dapat diakses dengan menekan tombol OK. Terdapat sejumlah mode sortir dan pencarian yang memungkinkan Anda dengan mudah mencari saluran yang diinginkan. Jika diperlukan, pengguna bisa memilih tuner mana untuk menerima saluran yang dipilih atau membiarkan receiver yang memilihnya. Pilihan yang terakhir ini mungkin merupakan pilihan terbaik jika perekaman sedang aktif. Waktu untuk perpindahan saluran cukup bagus dan bahkan jika dua saluran berada di transponder yang berbeda, waktu untuk perpindahan masih memadai sekitar satu detik.

Tuner yang digunakan oleh Topfield memiliki kepekaan masukan yang cemerlang dan tidak memiliki masalah dengan sinyal yang lemah seperti yang terdapat di ASTRA2D 28,2° BT atau NILESAT 7° BB. Kami juga gembira dengan kemampuan SCPC pada receiver ini; receiver ini mengunci sinyal



Daftar saluran dengan berbagai kemampuan pengaturan |



Informasi EPG yang diperluas |



Info bar |

yang dimulai dengan 1,0 Ms/sec dan menampilkan gambar yang bebas interferensi. Kami belum pernah melihat banyak receiver di lab uji kami yang sanggup menangani saluran RSP yang sulit di EUTELSAT SEASAT 36° BT dengan symbolrate hanya 1,0 Ms/sec.

Masih terdapat sejumlah fitur tambahan lain yang melengkapi secara sempurna keseluruhan TF6000PVR ES. Termasuk dalam daftar ini, tentu saja, yaitu tersedianya sejumlah masukan pengatur waktu yang bisa diprogram (tersedia kemampuan perekaman



mingguan, harian, hari kerja atau hanya akhir pekan), receiver yang sangat mudah digunakan ini, dekoder teletext juga berfungsi dengan bagus serta sejumlah tambahan praktis lainnya.

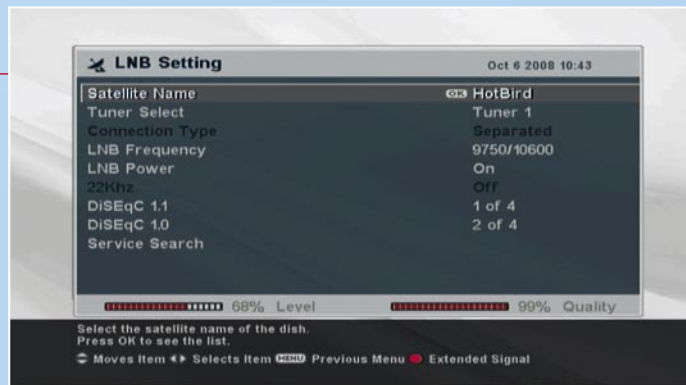
Fungsi PVR tidak diragukan berada di daftar paling atas. Receiver ini bisa merekam dua saluran pada saat yang bersamaan ke dalam hard disk yang sudah terintegrasi dan memutar keduanya tanpa kehilangan kualitas. Dengan adanya fungsi time shift, juga dimungkinkan untuk mem-pause acara yang sedang ditonton jika terjadi interupsi misalnya dering telpon. Acara bisa dilanjutkan kembali mulai dari tempat dihentikan. Fungsi bookmark juga merupakan fitur yang sangat praktis. Titik khusus bisa dibuat selama perekaman dengan menekan satu tombol sehingga titik ini dapat dengan mudah ditemukan nanti di hasil rekaman.

Antarmuka USB 2.0 dan jaringan di panel belakang menyediakan hubungan ke komputer Windows. Hasil rekaman dapat ditransfer ke komputer melalui kedua antarmuka ini dan selanjutnya, dapat disimpan dalam DVD. Biasanya, data bisa ditransfer ke arah sebaliknya, sehingga sangat mudah untuk menggunakan TF6000PVR ES sebagai pemutar MP3 dengan menyalin file MP3 ke receiver. Server web dan FTP juga tersedia melalui antarmuka jaringan sehingga hasil rekaman dalam hard disk dapat dikelola. Bahkan

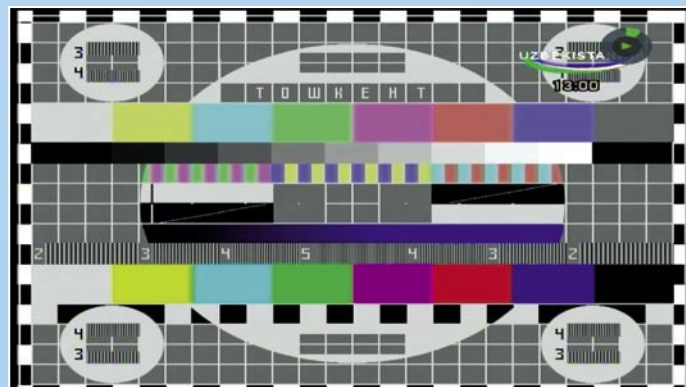
pengatur waktu rekaman dapat dilakukan langsung dari komputer. Sayangnya, laju transfer data via antarmuka jaringan adalah 1MB/sec. Hal ini bisa menyebabkan waktu pengunduhan yang lebih lama untuk hasil rekaman yang panjang. Konfigurasi koneksi jaringan dapat ditangani dari modem DSL atau router yang telah digunakan karena TF6000PVR ES mendukung protokol DHCP.

Fungsi gambar-dalam-gambar pada receiver ini juga sangat praktis. Yang memungkinkan, misalnya, beralih ke saluran kedua atau hasil rekaman sebelumnya ketika saluran utama sedang menayangkan jeda iklan. Saluran utama akan tampak dalam jendela kecil. Setelah jeda iklan berakhir, hanya dengan menekan satu tombol untuk beralih kembali ke saluran utama.

Salah satu alasan receiver Topfield telah begitu sukses adalah ketersediaan antarmuka TAP secara bebas yang memungkinkan pengguna untuk meng-upload peranti lunak buatan sendiri ke receiver. TF6000PVR ES juga sama. Dengan peranti keras yang serupa dengan TF6000PVRE, hampir seluruh TAP yang tersedia juga bekerja untuk TF6000PVR ES. Kami menguji TAP EPG yang populer, yaitu 3PG, dan menemukan bahwa TAP ini berfungsi sempurna dan melengkapi EPG Topfield yang sudah handal dengan sejumlah fitur tambahan seperti pengumpulan data EPG



Pengaturan LNB



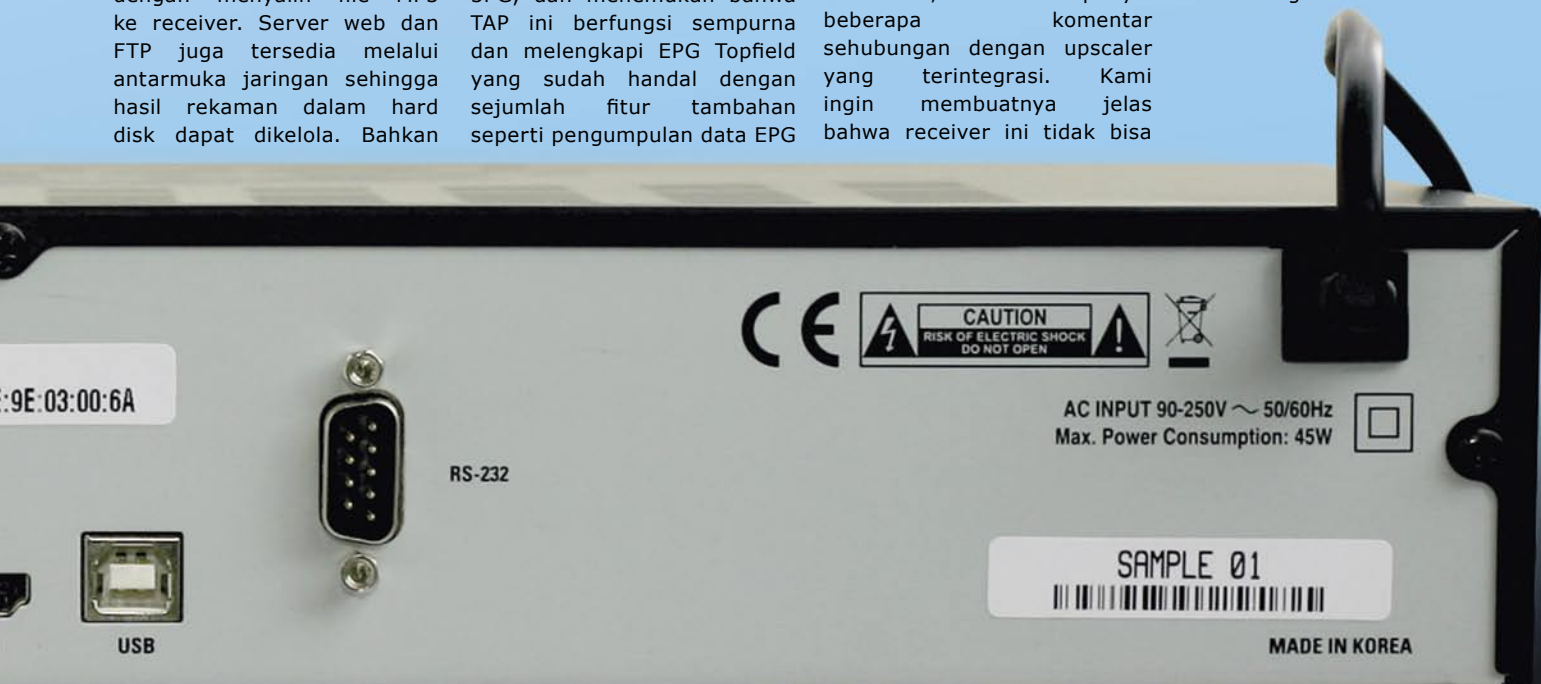
Penerimaan sinyal lemah seperti di EXPRESS AM1 40o BT

secara otomatis pada waktu tertentu sehingga data ini selalu tersedia dan disortir dengan sempurna untuk pengguna.

Topfield secara konstan bekerja meningkatkan receiver mereka sehingga menawarkan sejumlah cara untuk meng-upload pembaruan peranti lunak. Dapat ditangani via satelit, via Internet melalui antarmuka jaringan atau file yang diperlukan dapat diunduh dari situs Topfield ke komputer dan selanjutnya ditransfer via antarmuka USB ke receiver.

Terakhir, kami mempunyai beberapa komentar sehubungan dengan upscaler yang terintegrasi. Kami ingin membuatnya jelas bahwa receiver ini tidak bisa

mengambil sinyal yang lemah, yaitu dengan data rate rendah, dan mengubahnya menjadi gambar yang sangat tajam. Hal itu merupakan permintaan yang terlalu berlebihan. Namun receiver ini bisa meningkatkan gambar seperti yang ingin dilihat di TV LCD atau plasma serupa dengan kualitas TV yang didapatkan pada TV tabung 80cm standar. Saluran lain yang telah dipancarkan dalam SD dengan data rate lebih tinggi dapat diproses oleh upscaler Topfield dan menyediakan gambar yang ditingkatkan yang oleh pengguna akan disebut dekat dengan kualitas HD.



Opini ahli

+

TF6000PVR ES adalah receiver keluarga yang mudah digunakan. Dengan adanya upscaler terintegrasi, ideal untuk digunakan pada TV LCD atau plasma dan menyediakan peningkatan kualitas gambar. Fungsi PVR sangat praktis dan setelah Anda menggunakannya untuk pertama kali, Anda tidak akan meninggalkannya.



Thomas Haring
TELE-satellite
Test Center
Austria

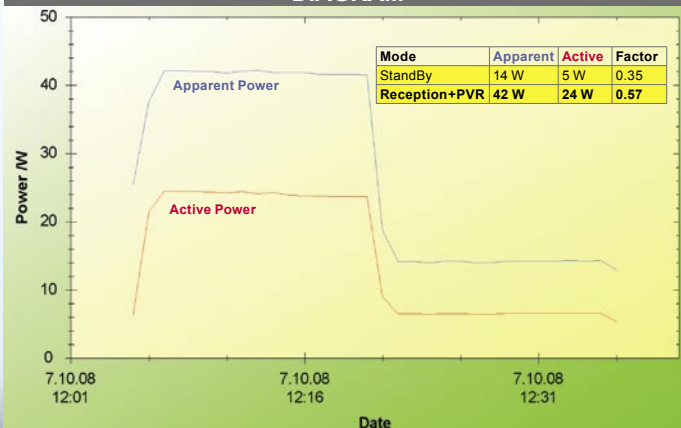
-

Memori saluran yang tersedia hanya 5.000 yang agak kurang memadai. Adanya saklar catu daya utama di panel belakang akan lebih baik.

TECHNIC DATA

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

ENERGY DIAGRAM



15 menit pertama: operasi aktif dengan perpindahan saluran, perekaman, pemutaran, dsb. 15 menit selanjutnya: Standby.



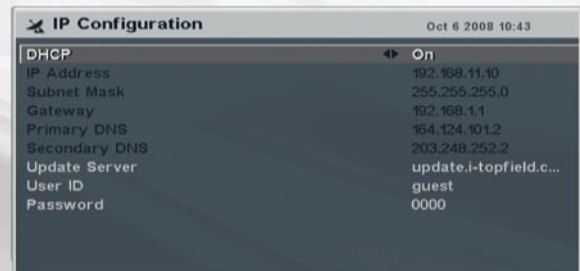
TAP 3PG untuk perluasan EPG |



Select the HDMI Output Resolution.

Moves Item Selects Item Previous Menu

Pengaturan audio/video |



Moves Item Selects Item Previous Menu

Dukungan DHCP untuk kemudahan pengaturan jaringan |



Renames, Rearranges, Locks, Skips, Deletes specific services.

Moves to another function. Moves to Service List

Previous Menu Moves to Service List

Editor daftar saluran |



Toggle EPG Type Previous Day Next Day Next Info Page
Next/Previous Services Information
preselect/record/cancel record/record by timer/cancel

EPG standar



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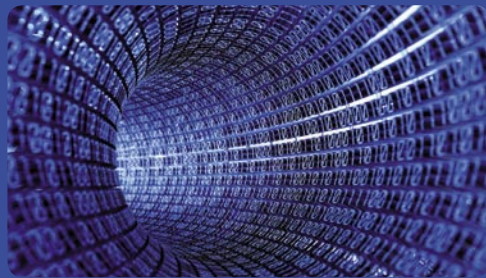
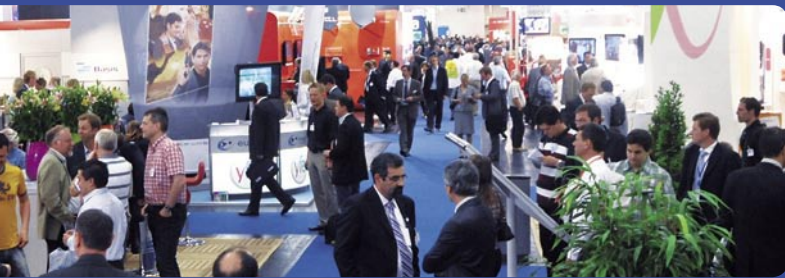
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Antena Mesh 4-segmen dari Venus

Pabrikan PT Subur Semesta dari Indonesia (dikenal dengan merk Venus) telah mengembangkan sistem antena mesh yang inovatif yang sangat sesuai untuk penerimaan C band dan dapat dengan cepat dipasang karena rancangannya yang praktis.

Yang membuat antena ini berbeda adalah ide membagi duabelas panel antena menjadi hanya empat bagian. Jadi yang didapatkan adalah empat panel seperempat bagian dari antena, masing-masing memiliki tiga panel yang telah dipabrikasi. Biasanya, memerlukan waktu yang lama untuk pemasangan antena jenis ini.

Produk ini hadir dengan pedoman pemasangan yang memungkinkan kami untuk memasang antena tersebut dalam waktu tidak lebih dari 30 menit. Dan itu

■ Antena mesh baru AL7210 (diameter 7-feet, sesuai perancangannya) dari PT Subur Semesta ini dipabrikasi menurut sistem produksi yang inovatif dan terdiri dari hanya empat bagian.



■ Empat bagian antena mesh dari PT Subur Semesta



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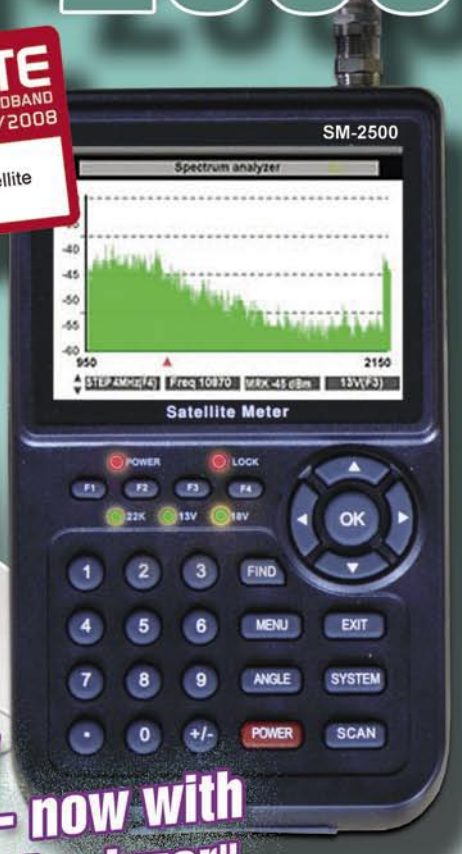
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0903/tur/venus.pdf

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■ Water-lever dari PT Subur Semesta dipakai pada saat pengarahannya

sudah termasuk pengambilan gambar untuk laporan ini!

Setiap komponen dibuat dengan kualitas yang sangat tinggi: semua dilapisi dengan galvanis sehingga antenna

Venus yang baru ini tidak saja cepat dalam pemasangannya, namun juga menawarkan masa operasi yang tahan lama. Kami menguji antenna 2,1 meter (7 feet) ini yang terutama akan dipasarkan

di Indonesia. Sehubungan dengan letak negara ini di dekat garis khatulistiwa maka diperlukan sudut elevasi yang sangat tinggi, sehingga inilah alasan antenna ini dipasang di ujung tiang. Dengan sudut elevasi mendekati 90° yang diperlukan oleh wilayah ini, maka rancangan mount lain tidak akan berfungsi.

Antena mesh dari PT Subur Semesta diproduksi secara otomatis, dengan hanya 15 persen dari total proses yang memerlukan pekerjaan manual. Hal ini memastikan kualitas tetap konsisten dan masing-masing panel memiliki lengkung parabola yang tepat. Jika dibandingkan dengan antenna solid, antenna ini akan berada di posisi yang setara. Antena mesh ini hadir dengan bracket pemegang dan penopang feed yang hampir sama dengan antenna solid dari PT Subur Semesta.

Ukuran 7-feet dipilih oleh PT Subur Semesta dengan alasan: di beberapa wilayah Indonesia antenna 6-feet tidak berfungsi optimal, sedangkan 9-feet agak terlalu besar untuk seluruh wilayah negara ini. Sehingga didapatkan 7-feet merupakan ukuran yang

sempurna untuk Indonesia. Kami telah diberitahu oleh PT Subur Semesta, bagaimanapun, bahwa ini hanyalah permulaan. Perusahaan ini ingin mendapatkan pemasaran di negeri sendiri terlebih dahulu, sebelum mulai menawarkan ukuran lain untuk pasar internasional juga.

Seperti pada seluruh paket dari PT Subur Semesta, antenna ini juga hadir dengan water-level Venus yang telah dipatenkan. Dengan adanya pemegang magnet, maka alat ini dengan mudah dapat dilekatkan pada posisi horizontal atau vertikal di bracket mounting dan skala akan menunjukkan sudut. Hal ini mengatasi masalah dalam penentuan posisi antenna.

Kami menggunakan mount LNB 2-in-1 untuk pengujian penerimaan. Mount ini, atau bahkan mount 4-in-1 untuk empat LNB C band juga tersedia dari PT Subur Semesta. Mount LNB ini ideal untuk kondisi Indonesia karena memungkinkan penerimaan sinyal dari beberapa posisi satelit dengan satu antenna tunggal. Pilihan satelit yang tersedia adalah: PALAPA C2 (113,0 BT) dan TELKOM 1 (108,0 BT), atau ASIASESAT 3S (105,5 BT) dan ASIASESAT 2 (100,5 BT), atau sekaligus keempatnya pada saat yang bersamaan.

Setelah beberapa menit mengarahkan antenna, kami telah berhasil menerima TV satelit dengan antenna baru ini. Sistem antenna baru dari PT Subur Semesta merupakan solusi yang inovatif untuk produksi panel antenna dengan kualitas tinggi yang konsisten. Semuanya ini dilengkapi lagi dengan kecepatan dalam pemasangan dan transportasi yang mudah.



■ Semua telah selesai dipasang – sekarang penerimaan perlu diukur.



■ Berhasil – Metro TV menunjukkan penerimaan yang sempurna.

Opini Ahli

+

Sistem antenna mesh baru Venus dari PT Subur Semesta dengan kualitas yang tinggi. Mudah dalam pemasangan karena desainnya yang praktis. Antena ini dilengkapi dengan seluruh komponen yang diperlukan, sehingga Anda bisa langsung menonton siaran TV satelit setelah pemasangan antenna tersebut.



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SPAUN Switch for USA

Ron Roessel

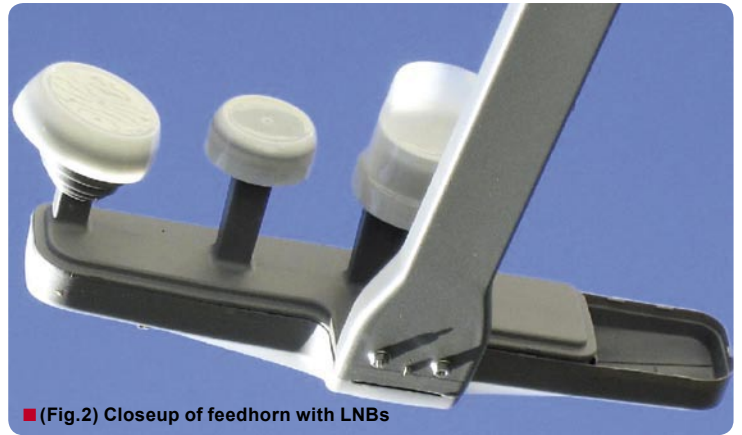
One of the biggest names in the industry when it comes to multiswitches would undoubtedly have to be SPAUN. The company was founded back in October of 1969 and began by manufacturing OEM terrestrial antenna products. In 1991 they began distributing products under their own name and shortly after that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

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

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

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

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



■ (Fig.2) Closeup of feedhorn with LNBS

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

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

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

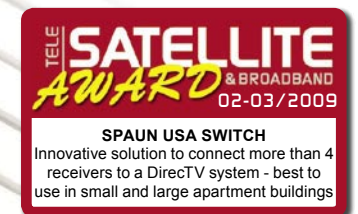
The SlimLine LNB (Fig.2) comes with four independent outputs that when used normally allow the end user to connect up to four satellite receivers. But when used



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

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

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



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

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

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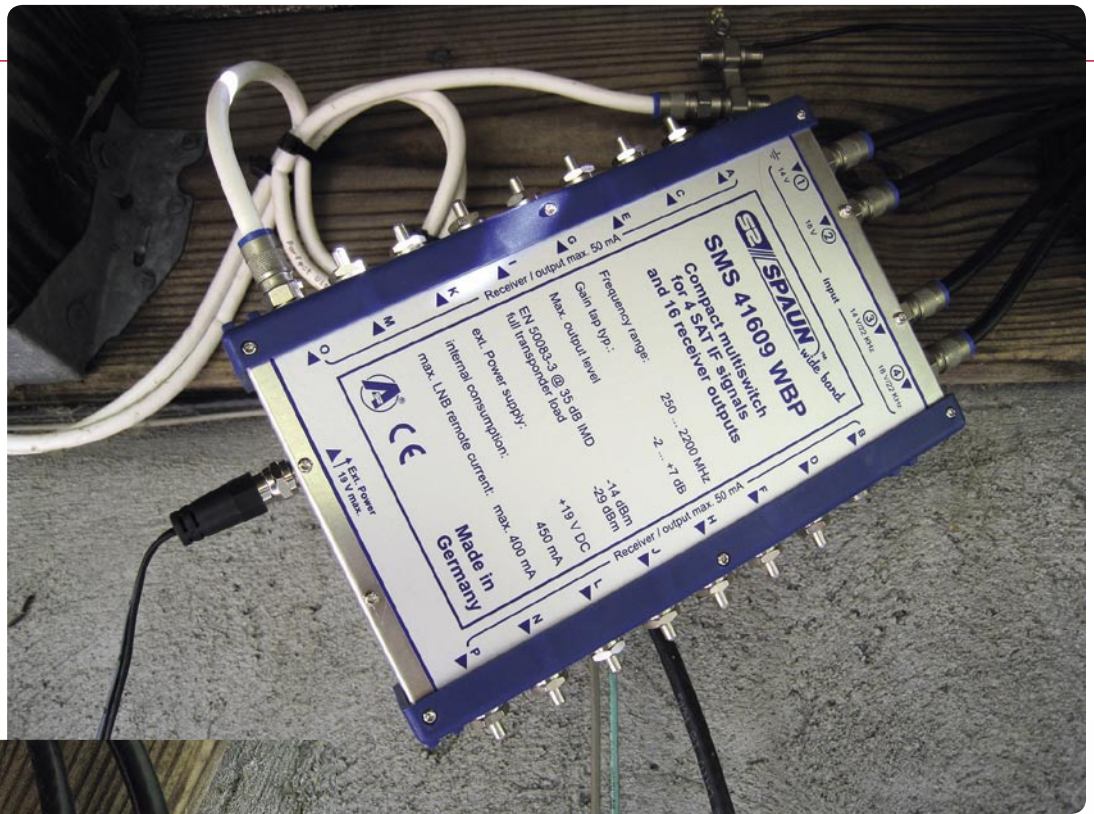
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two add up to five. Then you might be asking yourself how it can be possible to switch between five different satellites and at the same time give all the connected receivers access to these satellites independent of each other.

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

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



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



■ (Fig.3) SPAUN SMS 41609 WBP switch

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

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

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

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

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

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

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

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

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

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

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

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

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

and signal taps to the SPAUN set up as well.

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

test we used the following SPAUN components:

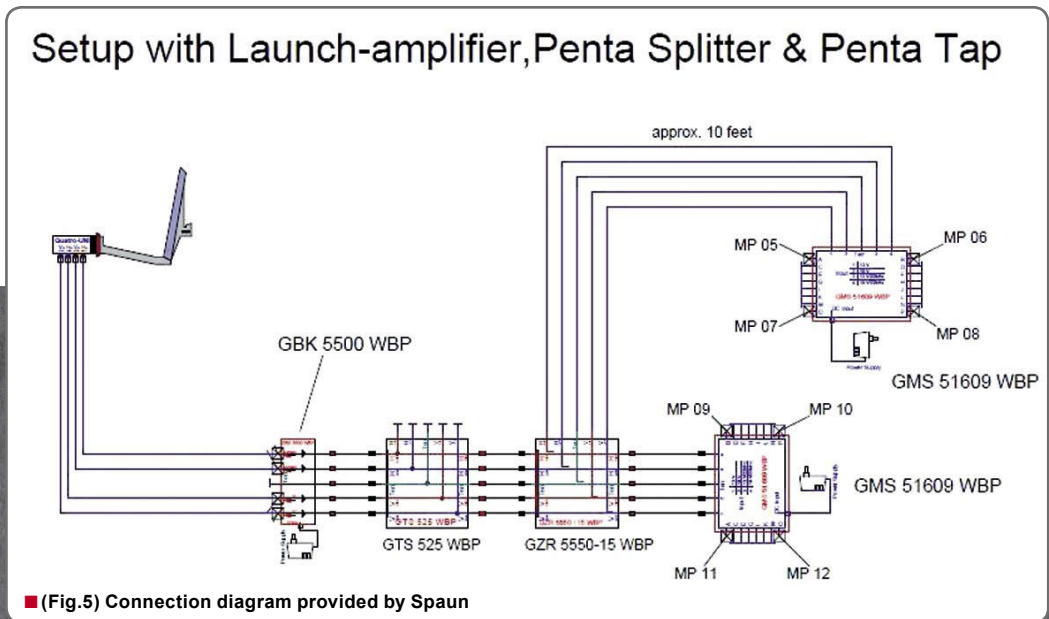
- 1xGBK 5500 WBP Wide-band Launch Amplifier
- 1xGTS 525 WB Penta Splitter
- 1xGZR 5550/15 WB Penta Tap with Directional Coupler
- 2xGMS 51609 WBP Compact 16-Output Multiswitch

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

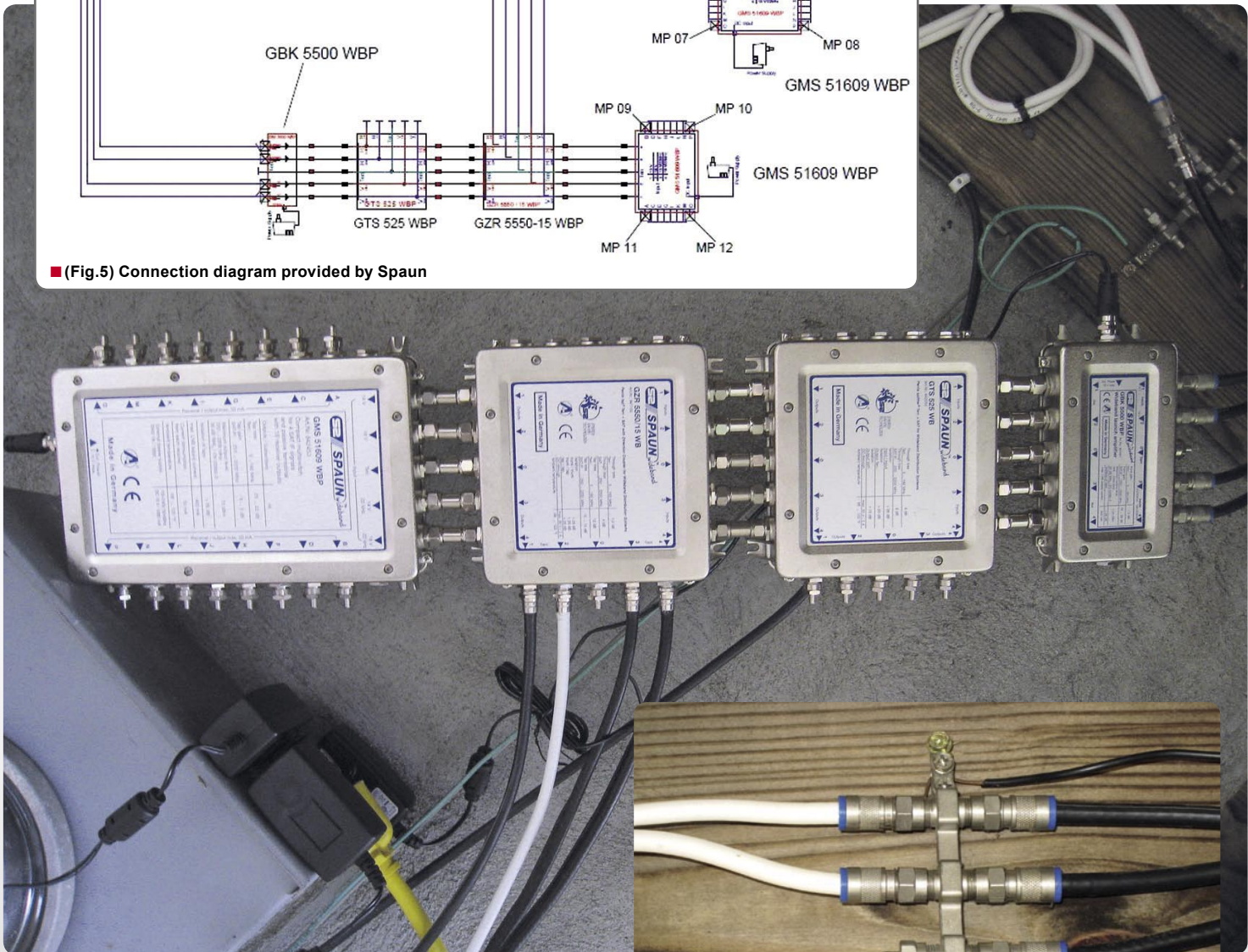
before the cables went into the house. This was a convenient point to connect the SPAUN components.

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

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



■ (Fig.5) Connection diagram provided by Spaun



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

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

For the second part of our

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

(Fig.8) DirecTV Satellite at 101 west

Table with 10 columns: Transponder#, Normal, MP05, MP06, MP07, MP08, MP09, MP10, MP11, MP12. Rows 1-32.

(Fig.9) DirecTV Satellite at 110 west

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

(Fig.10) DirecTV Satellite at 119 west

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

(Fig.11) DirecTV Satellite at 99a west

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

(Fig.12) DirecTV Satellite at 99b west

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

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

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

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

Conclusion

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

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

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

There was, however, some

(Fig.13) DirecTV Satellite at 103a west

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

(Fig.14) DirecTV Satellite at 103b west

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

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

TELE SATELLITE AWARD & BROADBAND
02-03/2009

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

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

TELE SATELLITE AWARD & BROADBAND
12-01/2009

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

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

TELE SATELLITE AWARD & BROADBAND
12-01/2009

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

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

TELE SATELLITE AWARD & BROADBAND
12-01/2009

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

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

TELE SATELLITE AWARD & BROADBAND
12-01/2009

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

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

TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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

TELE SATELLITE AWARD & BROADBAND
08-09/2008

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

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

TELE SATELLITE AWARD & BROADBAND
08-09/2008

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

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

TELE SATELLITE AWARD & BROADBAND
06-07/2008

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

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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

TELE SATELLITE AWARD & BROADBAND
04-05/2008

TOPFIELD TF7720HSIR
Ideal HDTV Receiver for FTA and Irdeto encrypted channels

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

TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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

TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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

TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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

Arion Berada di Jalannya

Lebih dari satu tahun lalu TELE-satellit menulis laporan tentang keberhasilan pabrik Korea Selatan untuk receiver Arion yang berkualitas tinggi, dengan kantor pusat di Anyang, salah satu daerah di selatan Seoul. Kali ini kami mengunjungi bagaimana Arion telah melayari lautan sepanjang tahun lalu dan rencana perluasan apa untuk tahun 2009.

Thomas Roh (kiri), direktur penjualan dan pemasaran, dan Sam Chang (kanan), manager pemasaran senior, di depan pintu masuk kantor R&D Arion.

Kami menemukan manager pemasaran senior, Sam Chang di bangunan baru, tidak jauh dari kantor pusat yang lama. Kami mendapatkan informasi tentang apa yang telah terjadi: "Kami pindah ke tempat baru ini karena di sini kami bisa menawarkan kondisi kerja yang lebih baik." Arion saat ini memiliki 80 karyawan, 50 di antaranya bekerja sebagai insinyur di pusat R&D di kota Anyang, Korea. "Pabrik utama receiver Arion berlokasi di China selatan." Sam Chang menjelaskan.

Manager pemasaran Joey Lee menambahkan informasi geografis: "30 persen dari produk kami dikirim ke India, dan 30 persen dikirim ke Amerika Selatan serta sisa 40 persen didistribusikan

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Apakah ini nyata? Suatu perusahaan dengan begitu banyak antena piringan di atas atap pastilah berhubungan dengan receiver satelit. Jeong Woo Lee adalah salah seorang insinyur di Arion dan terlihat sedang memasang LNB. Di latar belakang terlihat pencakar langit Anyang, kota di sebelah selatan Seoul.

ke Eropa." Sam Chang menambahkan, "Kantor pemasaran kami di Argentina telah aktif beroperasi sejak awal 2007" dan dilanjutkan "pada tahun 2009 kami merencanakan untuk terus bertumbuh di Eropa Barat, khususnya."

Thomas Roh adalah direktur penjualan dan pemasaran, memberikan informasi tentang pasaran untuk Arion: "Sejak tahun 2006, Arion telah lebih memfokuskan diri pada pasar operator TV di Amerika Latin, India dan pasaran lainnya dan dikontrak dengan operator TV kabel dan

satelit. Namun segera, kami kembali ke Eropa, salah satu pasaran utama STB kami, dengan landasan HD baru seperti HD dengan ST7101, HD PVR-ready dan Broadcom berbasis dual HD PVR." Bahwa Arion membuat tahapan khusus dalam membangun kerjasama dengan berbagai penyedia layanan satelit dan kabel.

Bagaimana dengan model-model produk Arion? "Jelas, pasaran HD saat ini ada di Eropa," Sam Chang menyarankan dan melanjutkan dengan mendata produk yang akan diperkenalkan di pasaran Eropa pada tahun 2009: "Pada kuartal pertama tahun 2009, kami telah menjadwalkan untuk peluncuran receiver HDTV PVR-ready, yang berarti bahwa hard disk eksternal dapat dihubungkan ke receiver ini. Juga akan diikuti oleh receiver dengan hard disk terpasang pada kuartal kedua dan akhir tahun 2009

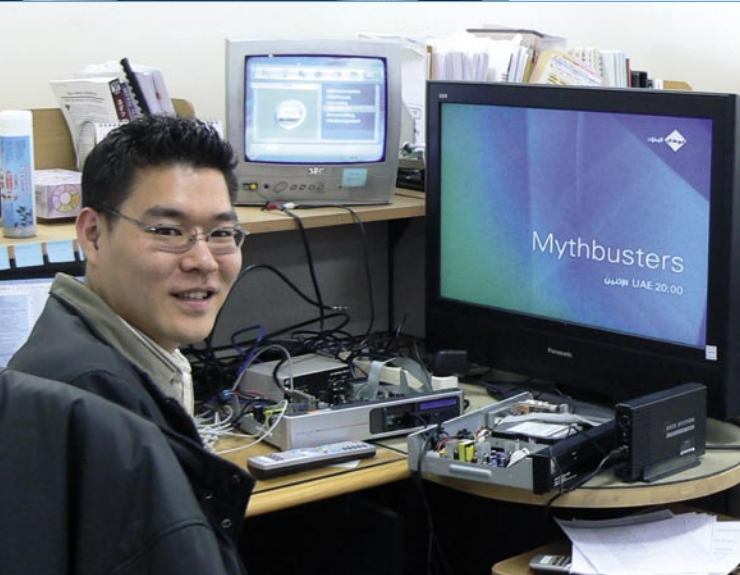
Tim penjualan Arion sedang bekerja.



■ Joey Lee, manager pemasaran Arion.



■ H.M. Park adalah Managing Director senior dan dia mengepalai 50 insinyur perangkat keras dan lunak di tim R&D



■ Jangan Ganggu! Rancangan sirkuit untuk receiver baru sedang didiskusikan oleh tim insinyur.

■ Salah seorang insinyur sedang menguji peranti lunak untuk receiver PVR HD baru, yang akan segera diluncurkan.

Anda bisa mengharapkan receiver IPTV." Joey Lee menambahkan "segera setelah receiver contoh tersedia, kami akan mengirimkan ke TELE-satelit untuk penulisan laporan uji." Kami di TELE-satelit dan tentu saja pembaca kami juga menantikan receiver HDTV MPEG-4 yang baru ini, karena produk Arion selalu berkualitas.

Jika Anda ingin bertemu langsung dengan perwakilan Arion maka Anda bisa menandai dua pameran dalam jadual Anda untuk tahun 2009: "Kami hadir di pameran ANGA dan IBC," konfirmasi Sam Chang.

Arion selalu aktif dan kami tidak bisa menunggu untuk melihat receiver baru Arion yang berkualitas!

Receiver berkualitas juga harus melewati pemeriksaan kualitas yang sangat ketat: Eun-Ju Choi adalah insinyur pengujian di tim kualitas dan terlihat sedang memeriksa ketahanan receiver baru di lemari pemanas.



Miliuner dalam 4 tahun – Bahkan 3! SonicView, USA

SonicView masih bisa ditemukan di kawasan industri ini. Dua unit masih disewa oleh SonicView. “Namun dalam beberapa bulan mendatang kami akan pindah ke bangunan milik kami sendiri”, ungkap Steve Falvey, CFO SonicView, “Gudang di sini terlalu kecil untuk pertumbuhan penjualan kami yang pesat.” ■



Jika Anda berhasil menjual lebih banyak receiver satelit daripada yang pernah Anda impikan pada tahun pertama bisnis, maka tidak menjadi masalah untuk mencapai jutaan dalam empat tahun – siapa tahu, bahkan dalam tiga tahun! SonicView, berbasis di California, didirikan hanya pada akhir tahun 2006. Bobby Sanz mengambil alih kepemilikan pada musim panas tahun 2007 dan penjualan meningkat secara dramatis sejak saat itu. Ini merupakan cerita yang cukup sukses, Tony Lively, Manager Penjualan SonicView, harus menjelaskan lebih rinci kepada kami.

Pada musim panas tahun 2007 Bobby Sanz mengakuisisi perusahaan SonicView. Pada saat aksi dimulai. Tony menjelaskan, “SonicView merupakan perusahaan receiver satelit yang baru saja dimulai bersaing dengan beberapa pemain besar di pasar Amerika Utara. Perusahaan ini dimulai hanya dengan tiga karyawan. Yang merupakan kegiatan kecil pada saat permulaan. Dengan model produk yang handal dan pengetahuan pasar Amerika Utara, Bobby mendapatkan hak distribusi khusus untuk Amerika dan dunia dari pabrik receiver Korea.”

Bobby mengambil juga tim profesional untuk menumbuhkan perusahaannya. Steve Falvey, yang telah bekerja sebagai Vice President untuk bank besar di Amerika, juga ikut bergabung. Setelah pensiun, dia memulai sebagai CFO SonicView dan sejak itu dia telah menjalankan operasional sehari-hari. Keputusannya untuk bergabung dengan SonicView sebenarnya cukup mudah: Bobby Sanz adalah anaknya.

Pengalaman Steve sebagai manager di bank membuka pintu keuangan bagi SonicView dan memungkinkan mereka membangun bisnis receiver mereka dengan gaya hebat. Pada tahun 2008, penjualan SonicView berlipat-ganda sejak Bobby mengakuisisi bisnis ini. Harapan untuk tahun 2009 telah meningkat melampaui apa yang telah ditargetkan sebelumnya.

Dari mana optimis ini datang? "Pasar FTA di Amerika Utara masih baru saja dimulai", Tony menjelaskan, "Banyak imigran di sini sedang mencari TV apa yang bisa mereka tonton di rumah via satelit tanpa harus bayar." Receiver satelit SonicView dipertimbangkan untuk pasar seperti ini. "Terdapat pasaran kedua dari pemirsa yang sampai kini masih membayar untuk TV mereka dan perlahan namun pasti akan menemukan bahwa terdapat sejumlah besar saluran gratis yang dapat diterima." Dengan penurunan ekonomi saat ini, banyak yang bertanya pada diri sendiri mengapa mereka harus menghamburkan uang kepada penyedia layanan TV-berbayar.

SonicView sedang membuka pasaran ketiga untuk mereka sendiri dengan perluasan ke Amerika Selatan. "Ini adalah pasaran besar yang belum tersentuh", Tony menyakinkan, "Kami menyebutnya 'tempat putih'." Profesionalisme SonicView dapat terlihat: pertama adalah masalah pengiriman dikerjakan sebelum penyalur lokal memerlukannya. "Kami mengurangi risiko bahwa kami hanya mengirim hingga perbatasan; segala sesuatu lainnya ditangani oleh rekanan setempat." Kriminal dan korupsi adalah hal yang harus di jauhi oleh perusahaan seperti SonicView. Tony melanjutkan, "Kami selalu mewajibkan pembayaran di muka untuk meminimumkan risiko kami."

Melihat palet produk mereka menunjukkan bahwa pekerjaannya terorganisir. Receiver benar-benar dikonfigurasi untuk pasar. Terdapat model kelas atas HD8000 untuk penerimaan HDTV via satelit serta terrestrial, juga terdapat SV360 Elite yang baru saja diperkenalkan TELE-satelit dan hadir dengan dua tuner satelit, dan SV360 untuk versi tuner tunggal. Pada saat SonicView tiba di pameran CES di Las Vegas pada bulan Januari 2009, mereka akan memiliki tiga receiver lagi untuk dipamerkan: versi HDTV dari SV360 dengan satu atau dua tuner serta versi ringan untuk pasar Amerika Selatan dengan tuner tunggal dan modulator UHF sebagai pengganti keluaran HDMI.

Tony memaparkan bisnis mereka: "Kami menjual dengan jumlah yang hampir sama untuk masing-masing dari ketiga model tersebut, dengan kata lain, masing-masing 30%." Saat ini SonicView memiliki 11 karyawan dan pengiriman hanya kepada penyalur besar. "Konsumen kami terdapat pada delapan wilayah penyaluran di Amerika Serikat, Kanada dan Meksiko", Tony menjelaskan dan kemudian melanjutkan, "Penyalur ini secara toal memiliki 130 agen penjual."

Palet produk SonicView diharapkan untuk berkembang. Tony menjelaskan, "Pada tahun 2008 hanya 10% dari



■ CFO, Steve Falvey, sebelumnya adalah bankir. Steve mengetahui bagaimana mensukseskan pendanaan perusahaan dan bagaimana membawanya ke puncak dengan cepat.



■ Manager Penjualan SonicView Tony Lively sedang membaca majalah TELE-satelit edisi dengan laporan uji SonicView. "Saya telah banyak belajar dari TELE-satelit", Tony mengungkapkan, "Saya khususnya menyukai laporan dari negara-negara lain."



■ Warga Brazil setempat Patricia Moreira Renco adalah konsultan bisnis internasional mereka, dan sedang bekerja membangun jaringan distributor di Amerika Selatan.

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Ini adalah manager gudang Chris Witcomb. Dia menjelaskan, "satu kotak berisi lima receiver dan 1.000 kotak ini masuk ke dalam satu kontainer dengan jumlah total 5.000 receiver." Ini adalah jumlah minimum yang harus dibeli oleh distributo, namun kebanyakan dari mereka jumlah ini hampir tidak mencukupi. "Segera setelah pengiriman ini tiba, maka akan dikirim lagi ke agen kecil keesokan harinya", komentar Chris.



Ken Cherry adalah spesialis Inventory Control dan tidak hanya mengurus pengiriman ke penyalur tetapi juga menangani perizinan impor yang berhubungan dengan pengiriman dari Korea Selatan. "Pengiriman luar negeri memerlukan waktu satu minggu ditambah satu hari untuk pengurusan bea cukai", Ken menjelaskan.



Manager Teknis Adam Dunn sedang memperbaiki receiver yang rusak. Dia menjelaskan, "Kami mendapat sedikit sekali pengembalian, untuk tahun lalu 0,002% dari total penjualan tahunan: Produk SonicView yang berkualitas tinggi menjadi alasan untuk kesuksesan mereka yang sensasional.



Dukungan Teknis SonicView adalah Dirk dan Julie Sweeney dari Michigan, dan Rick Caylor (tampak di foto) dari wilayah Kansas City, Missouri. Dia adalah spesialis SonicView jika terdapat masalah yang sulit dan membantu konsumen menyelesaikan masalah penerimaan satelit dan khususnya untuk sistem antena bermotor. Rick menunjukkan antenanya dan menjelaskan, "Saya mempunyai enam antena dengan 13 receiver. Satu antena solid 3-meter, satu antena aluminium 2,5-meter, masing-masing dengan motor, serta satu antena 90cm untuk DirecTV, satu antena 75cm untuk Galaxy 25 dan dua antena bermotor 75cm." Rick adalah pemburu feed dan khususnya tertatik pada perlombaan balap mobil, dia juga menjalankan forum satelit tempat dia mendata feed balap mobil: www.websitetoolbox.com/mb/rickcaylor



penjualan kami adalah dari asesoris namun kami mengharapkan peningkatan yang tajam untuk jumlah ini pada tahun 2009, kenyataannya, asesoris akan menghasilkan setengah dari penjualan kami di masa mendatang." Hal ini akan mencakup multiswitch dan kabel HDMI, serta LNB dan memori USB untuk PVR. Bobby Sanz memiliki beberapa rencana untuk masa mendatang dan dipersiapkan dengan baik untuk mewujudkannya: pendanaan profesional, produk ideal yang sesuai untuk pasar dan waktu yang optimal.

Siapa tahu, mungkin saja SonicView akan sukses menjadi miliuner receiver hanya dalam tiga tahun!

Segel ini digunakan oleh SonicView untuk menunjukkan pada pengguna akhir kepercayaan yang telah mereka buat untuk distributor mereka. Mereka hanya mendapatkan segel ini setelah melewati pemeriksaan oleh SonicView; distributor akan memasang segel ini di situs mereka.

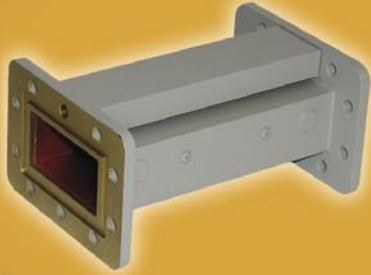




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Jumlah perusahaan berteknologi tinggi dilihat dari sejarah 50 perusahaan adalah sangat kecil. Salah satu di antara yang sangat sedikit ini adalah Jiuzhou dari Sichuan di China. Pada tahun 2008 perusahaan ini merayakan ulang tahunnya yang ke-50, sebagaimana yang dilaporkan TELE-satellite dalam edisi 03/2008. Perayaan resmi dilaksanakan pada tanggal 16 November di kantor pusat perusahaan di Sichuan.

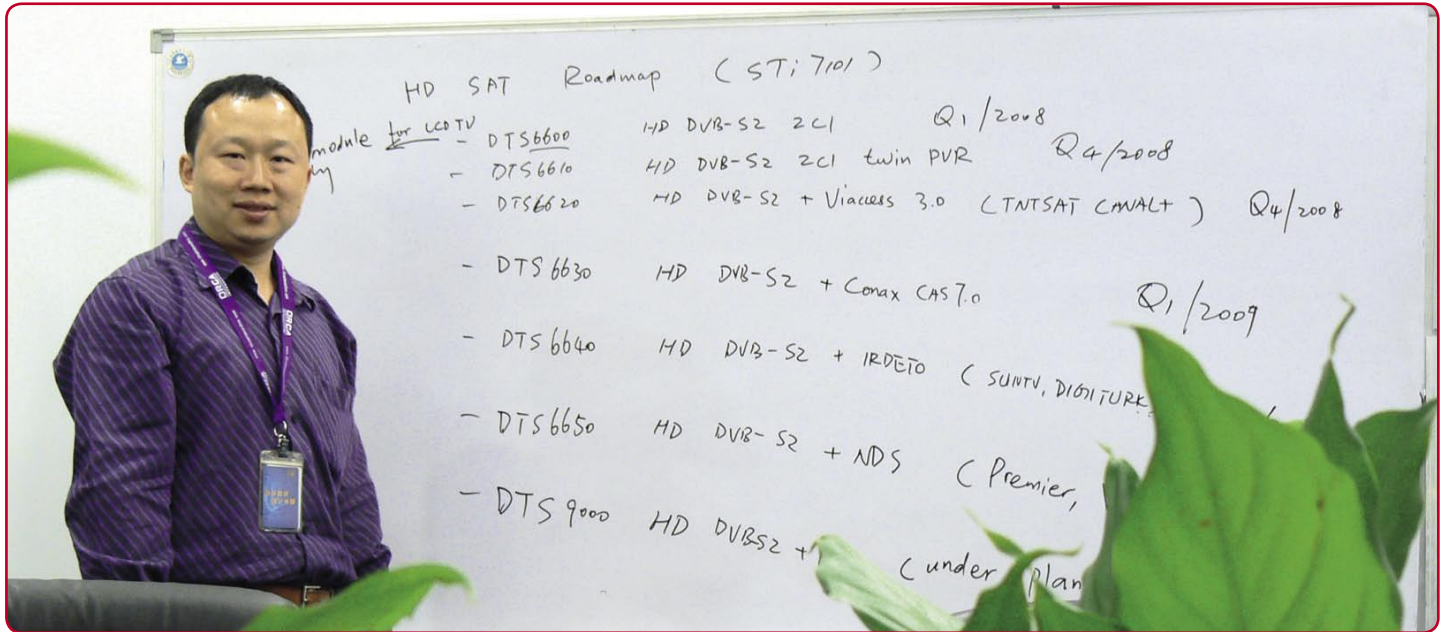
Sekarang pertanyaannya: apa yang ada di toko untuk tahun ke-51?



Pengembangan terbaru pada tahun ke-51

Penyaluran dan riset Jiuzhou terletak di Shenzhen, di sebelah Hong Kong di selatan China. Di sini kami menemui Huang Wei, direktur penjualan Shenzhen Jiuzhou Electric dan anak perusahaannya Digital Telemedia, yang memegang bagian receiver di dalam Jiuzhou Group. Selain receiver satelit Jiuzhou juga menawarkan receiver untuk TV kabel, TV terestrial dan IPTV.

"TV Terestrial digital DMB-TH telah diluncurkan di Hong Kong, dan China mengatur akan memperkenalkannya pada tahun 2009," menurut Huang Wei, sebelum dia beralih ke bidang satelit: "Pada tahun 2008 sekitar 95% dari produk kami adalah



■ Direktur penjualan Huang Wei menunjukkan daftar model receiver Jiuzhou untuk tahun 2009 – semuanya menggunakan chipset ST.

untuk definisi standar, namun pada tahun 2009 segmen definisi tinggi akan meningkat tajam sekitar 20 hingga 25 persen."

Jiuzhou memiliki berbagai variasi model baru untuk memenuhi permintaan konsumen. Dalam TELE-satelit edisi terdahulu telah ditampilkan DTS 6600. Pada saat ini, DTS 6610 dengan tuner kembar juga telah diluncurkan dan akan segera diuji oleh TELE-satelit.

"DTS 6620 juga baru dan dibuat khusus untuk TV-berbayar Perancis TNTSAT dari Canal Plus," Huang Wei melanjutkan mendaftar model baru dan waktu peluncuran ke pasar di papan



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tulis. "Sepanjang tahun 2009 kami akan menghadirkan model dengan integrasi Conax, Irdeto untuk India dan Turki, serta NDS." Bahkan model IPTV sedang dalam proses pembuatan, tetapi "saat ini permintaan masih belum ada," Huang Wei mengungkapkan, "meskipun France Telecom telah melaksanakan tender."

Prinsipnya, seluruh receiver adalah PVR, karena hard disk atau stik memor bisa ditambahkan pada terminal USB. "Kami semakin banyak bekerja sama dengan penyedia layanan utama dan memproduksi sesuai dengan spesifikasi yang diminta," Huang Wei menjelaskan strategi bisnis Jiuzhou. Hal ini berarti bahwa dari titik teknis Jiuzhou sanggup memasukkan hard disk sebagai fitur pabrikan dan selanjutnya menawarkan PVR skala penuh.

"Di Shenzhen kami memiliki 250 karyawan pengembang peranti lunak dan menambah 20 hingga 30 pekerja baru setiap tahunnya," Huang Wei dengan



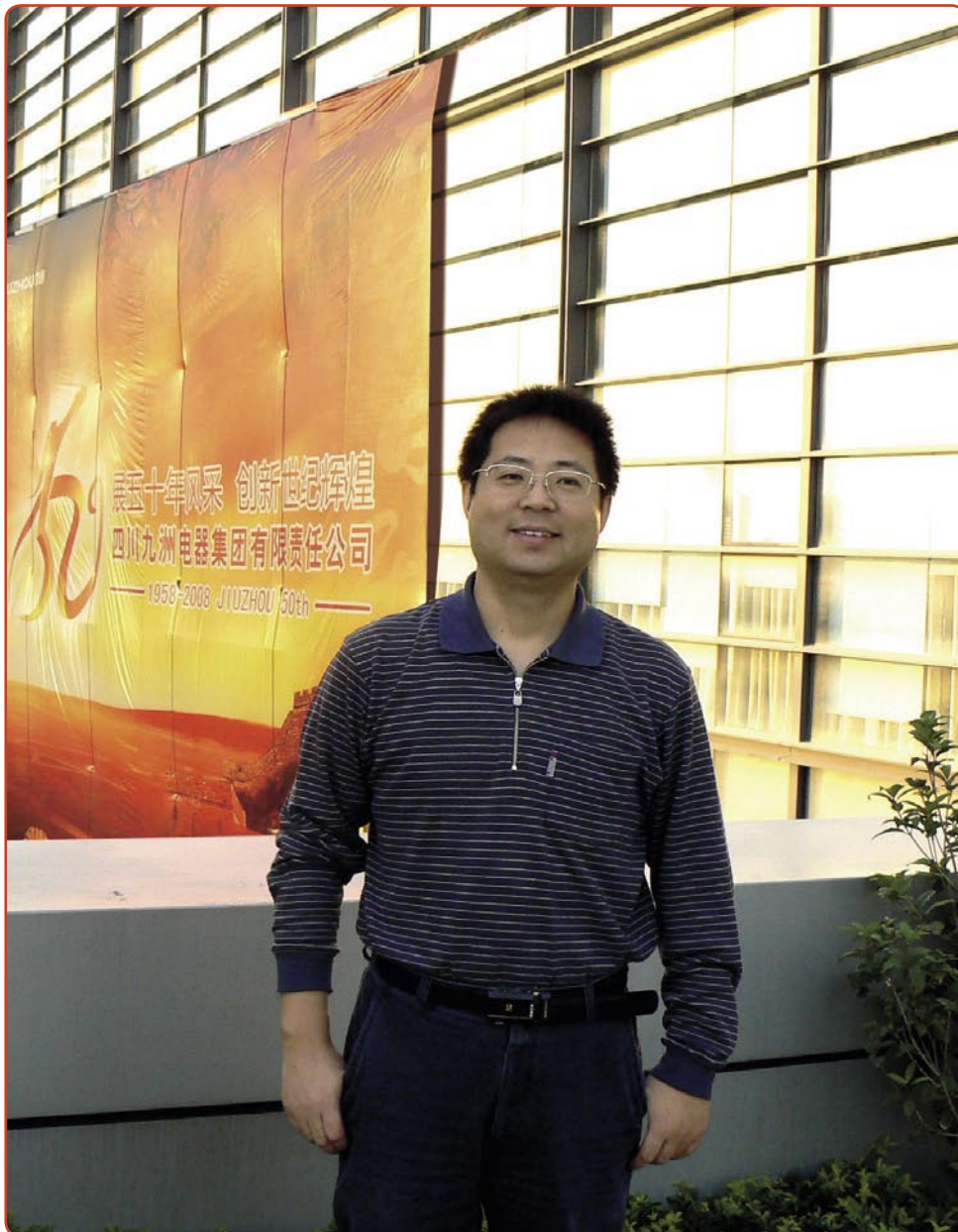
■ Chen Jun adalah salah seorang insinyur peranti lunak di Jiuzhou. Di sini terlihat dia sedang memrogram peranti lunak untuk receiver HDTV.

bangga menyatakan dan menjelaskan bahwa dengan cara ini Jiuzhou akan dapat memenuhi keinginan konsumen dengan sangat mudah. "Receiver Combo, misalnya, tidak menimbulkan masalah sama sekali, dan bahkan audio Dolby dapat diintegrasikan karena kami memiliki lisensi untuk itu."

ABS merupakan salah satu pengembangan yang paling baru – silahkan baca laporan fitur dalam edisi ini untuk lebih rinci. ABS adalah standar siaran yang diimplementasikan untuk transmisi DTH di China dan akan menjadi pasaran utama di China. "Kami sedang menunggu spesifikasi akhirnya, namun tahun 2009 ABS akan diluncurkan," kata Huang Wei. Sebagai konsekuensinya Jiuzhou memroyeksikan bahwa 20 persen dari receiver mereka adalah model ABS. 50 persen adalah untuk definisi standar dan 20 persen untuk definisi tinggi. Huang Wei menyimpulkan bahwa "kami juga memproduksi receiver 6600 sebagai plug-in untuk panel LCD." Hal ini berarti produk Jiuzhou akan diintegrasikan bahkan dalam produk merk lain.

Apakah hal ini berarti bahwa sekarang semua yang berhubungan dengan receiver satelit dan Jiuzhou? Tidak sama sekali! Jiuzhou Group merupakan rumah bagi satu perusahaan lagi: Jiuzhou Electronic, yang memproduksi receiver satelit profesional yang terutama digunakan sebagai receiver head-end bagi penyelenggara TV kabel. TELE-satelit telah menampilkan DVS-2018BS dalam

■ Direktur pemasaran luar negeri Jiuzhou Group Tang Erman berada di balkon gedung Jiuzhou Electric. Poster besar di belakangnya adalah untuk perayaan ulang tahun ke-50.





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edisi 11/2007. Receiver ini merupakan definisi standar, direktur ekspor Yonchin Shou menjelaskan bahwa model baru DVS-2018CS adalah kompatibel dengan HDTV. "Sekarang perusahaan TV kabel dapat menyertakan saluran HDTV dalam penawaran mereka." Bahkan dengan modul CI, jika diperlukan.

TELE-satelit saat ini sedang melakukan pengujian untuk model ini. "Model ini dibuat untuk MPEG-2, namun 200 lebih insinyur kami di Sichuan dan Beijing telah siap mengerjakan model MPEG-4," Yonchin Shou menceritakan proyek di masa mendatang. "Sekarang, bagaimanapun, permintaan untuk receiver MPEG-4 masih agak kurang responsif." Bahkan setelah 50 tahun Jiuzhou selalu segar dengan ide untuk model baru. Biasanya, kami juga tertarik dalam strategi pemasaran yang dilakukan oleh Jiuzhou dan mendapatkan Tang Erman untuk menjawabnya. Tang adalah direktur departemen pemasaran luar negeri Jiuzhou Group dan - ketika ditanya bagaimana dia melihat pasaran di masa mendatang untuk produk Jiuzhou - percaya bahwa "permintaan di Eropa dan Amerika Utara secara jelas adalah receiver HDTV, sedangkan Asia menginginkan SDTV."

Tang Erman mengalokasikan sumber pemasaran: "Pada tahun 2009 kami akan menghadiri 12 pameran khusus," Tang

Model produk perusahaan ini ditampilkan di ruang pamer Jiuzhou. Duduk di sofa: Kitty (kiri), asisten untuk Linda Lee (kanan), dari departemen pemasaran luar negeri Jiuzhou Group.



■ Direktur penjualan Yonchin Shou menunjukkan receiver satelit HDTV baru DVS-2018CS dalam katalog CATV baru (www.jiuzhoutech.com)

Erman menceritakan dan menjelaskan perbedaan dari tahun 2008: "Tahun lalu kami memiliki stand kecil di 19 pameran, pada tahun 2009 jumlah pameran akan menurun bagi kami, namun ukuran stand kami akan meningkat." Tentu saja Jiuzhou juga mengandalkan Internet sebagai media iklannya. Tang Erman mengungkapkan bahwa "25 persen dari anggaran pemasaran kami dibelanjakan untuk iklan online." Terutama pada target situs B2B Alibaba atau Globalsources. "15 persen dari sumber iklan kami pada

iklan cetak seperti di TELE-satelit, dan 60 persen dibelanjakan pada pameran khusus."

Tang Erman juga menjelaskan kenapa dana tersebut didistribusikan seperti itu: "Kami menerima banyak respon dari iklan online, namun hanya menghasilkan pesanan kecil. Menghadiri pameran lebih efisien dalam hal mendapatkan pesanan, karena kami berhubungan dengan penyalur besar di sana." Di lain pihak, partisipasi dalam pameran





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menghabis banyak dana dan "pameran berakhir hanya dalam beberapa hari," Tang Erman menyesalkan. Sehingga tetap diperlukan iklan cetak: "Dengan cara ini kami hadir di depan konsumen potensial kami untuk jangka waktu lama yang memberikan kesempatan kami

menajamkan gambaran kami." Tang Erman sangat puas dengan keseluruhan strategi pemasarannya dan menyatakan bahwa "kami ingin menjaga rasio ini dan tidak merencanakan adanya perubahan besar." Departemen yang dipimpin Tang Erman terdiri dari 20 karyawan

di Shenzhen, yang bertanggung jawab untuk komunikasi eksternal.

Jiuzhou – selalu aktif, bahkan pada usia ke-51 tahun!

■ Prototif HDTV diuji oleh insinyur peranti lunak Zhu Xiaoyong dengan sinyal satelit yang sebenarnya.



Worldwide Satellite in Northern Holland

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

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

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

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

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

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

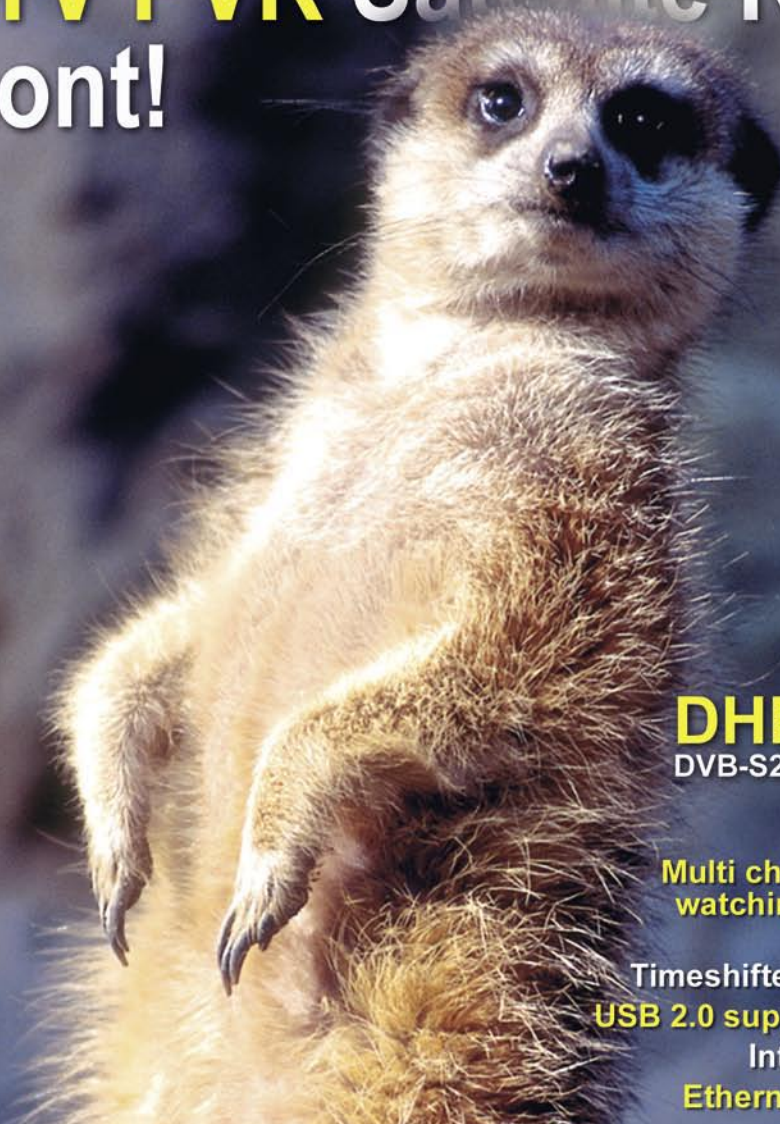
to install satellite systems for sporting events in many of the sports bars in Amsterdam and this makes up about 40% of our sales today."

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

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



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



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

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

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

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



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Sistem satelit tidak hanya menerima saluran TV, radio dan data seperti yang Anda inginkan, tetapi juga sinyal yang tidak diinginkan yang dapat menyebabkan interferensi. Bagaimana Anda bisa terbebas dari sinyal interferensi ini? MFC, pelopor pabrik filter satelit berbasis di USA, memproduksi berbagai jenis filter yang bisa mengeliminasi interferensi tersebut.



■ Carl Fahrenkrug adalah Presiden dan CEO Microwave Filter Company



■ Selalu berkomunikasi dengan konsumen: Sandy Nelepovitz adalah Senior Marketing Associate dan mengelola tim penjualan.



■ Scott Parsell, Direktur Penjualan, manager jaringan MFC untuk penjualan domestik dan internasional, yang selalu mencari kesempatan baru bagi perusahaan.

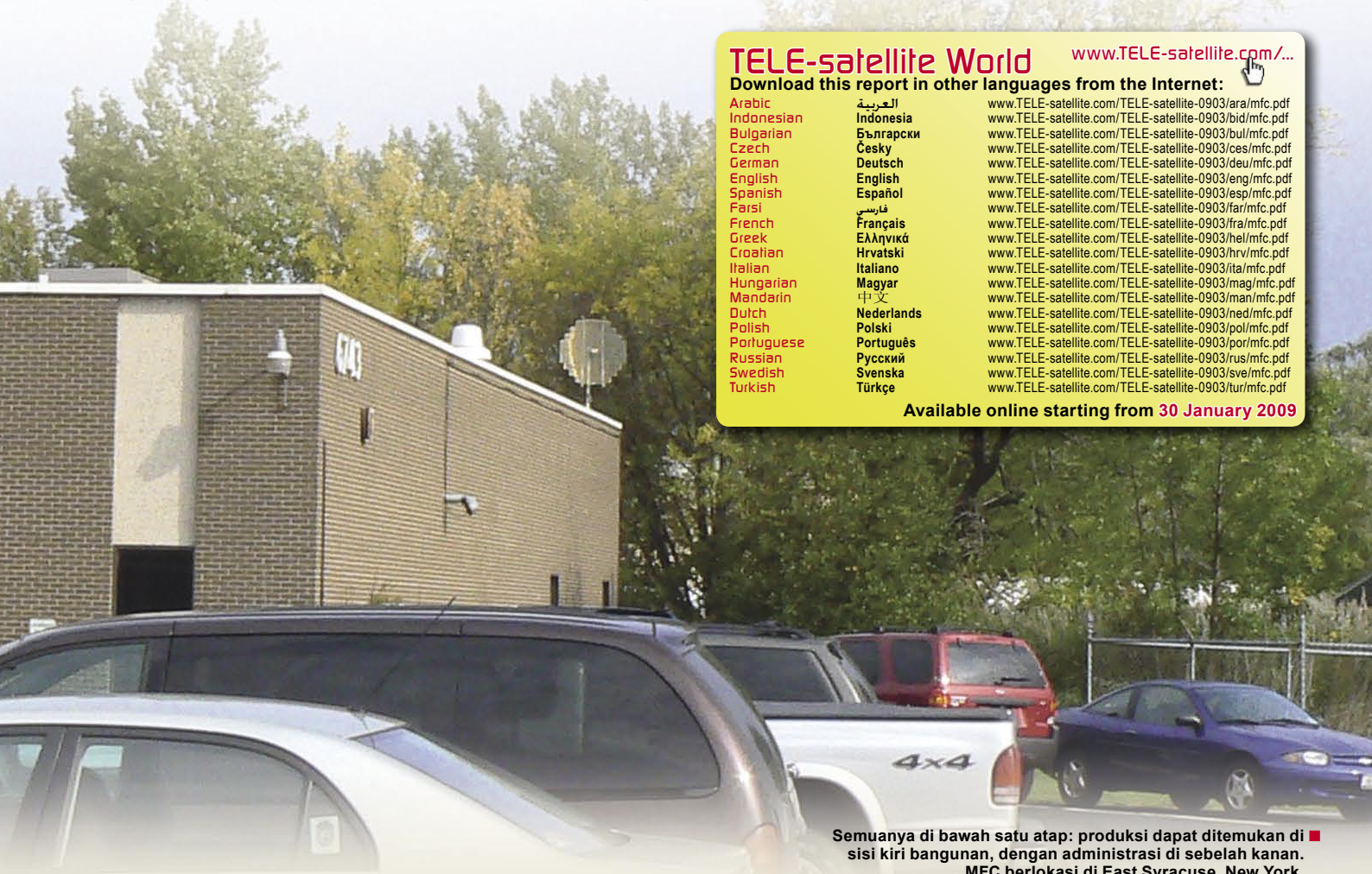
"Perusahaan ini didirikan pada tahun 1967, di New York", Sandy Nelepovitz menjelaskan, Senior Marketing Associate MFC, jiwa dan raga perusahaan ini. Dia telah bekerja selama 30 tahun di MFC, dia bersiap untuk menceritakan sejarah perusahaan, "Glyn Bostick, pendiri MFC, sebenarnya memulai bisnis di garasi, memproduksi filter untuk kegunaan amatir. Pada tahun 1973, kami pindah ke lokasi seperti sekarang ini. Pada waktu itu, kami hanya menyewa sebagian dari fasilitas,

berbagi dengan perusahaan lain. Pada tahun 1983, sebagaimana bisnis terus bertumbuh, kami mampu untuk membeli fasilitas seluas 3700 meter persegi."

Scott Parsell, Direktur Penjualan, yang telah bergabung dengan MFC selama hampir 20 tahun, menjelaskan lebih jauh, "Meskipun penurunan ekonomi dan peralihan teknologi yang telah terjadi di industri telekomunikasi sepanjang tahun, bisnis MFC tetap solid – dalam bagian besar

interferensi berkelanjutan di seluruh C-band. Konsekuensinya, filter IF tahap satu dan dua menjadi tidak berguna dan satu-satunya solusi adalah mengeliminasi sinyal ini dengan filter di feed sebelum konversi.

Scott melanjutkan, "Kami menawarkan filter bandpass untuk band standar (500 MHz), band diperluas (600 MHz) dan band super-diperluas (800 MHz). Kami juga menawarkan filter tertentu untuk aplikasi khusus. Sehingga, kami bisa menyediakan



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Eric Logan adalah salah seorang teknisi. Dia bisa mengkonfigurasi rancangan filter sesuai dengan kebutuhan konsumen secara langsung di komputernya. MFC juga menawarkan berbagai filter untuk kegunaan militer (misalnya X-band).

karena kenyataan bahwa kami menawarkan berbagai variasi produk filter – melayani, secara virtual, seluruh segmen pasar telekomunikasi (Satcom, CATV, Broadcast, Wireless, dsb.). Keanekaragaman produk ini berarti bahwa keberhasilan kami tidak hanya bergantung pada satu segmen pasar yang khusus." Tambahannya, teknik pabrik pembengkokan, yang diterapkan beberapa tahun lalu, telah meningkatkan efisiensi produksi – memungkinkan MFC menjadi lebih kompetitif.

Apa sebenarnya yang diproduksi oleh MFC? Scott mengacu ke salah satu produk MFC yang populer, "Seri filter bandpass C-band yang digunakan pada antena penerima C-di seanteru dunia. Filter ini dipasang di antara LNB dan feed, memindahkan sinyal yang tidak diinginkan yang terletak di atas atau bawah band yang diinginkan." Meskipun sinyal yang tidak diinginkan ini di-luar-band, tetapi dayanya sangat tinggi, yang biasanya mengganggu LNB dan menciptakan intermittent atau pola

model filter yang tepat untuk operasi C-band di seluruh penjuru dunia."

Kapan Anda memerlukan filter seperti ini? Scott memberikan beberapa contoh, "Sinyal Altimeter terletak di antara pesawat komersil dan bandara yang merupakan salah satu sinyal yang pertama ketahu sebagai interferensi pada C-band. Akan tetapi, masalah ini biasanya terbatas pada antena C-band yang berada di dekat bandara. Selanjutnya adalah sinyal radar berdaya tinggi yang digunakan oleh pesawatintai militer (misalnya pesawat AWACS) yang menyebabkan masalah pada lebih banyak antena C-band. Pesawatintai ini meningkat tajam sejak serangan 9/11 dan memengaruhi setiap antena C-band di Amerika, serta banyak antena lainnya di seluruh dunia. Hasilnya, radar tetap menjadi penyebab nomor satu bagi interferensi C-band."

"Baru-baru ini," Scott menambahkan, "sumber baru interferensi bagi C-band telah



■ Jika lebih rumit, tim teknis akan membahas bersama dan mengembangkan solusi khusus. Paul Mears (kiri) adalah Vice President Engineering, Bob Paul (tengah) adalah Kepala Insinyur, dan Mike Wise (kanan) adalah Insinyur Mekanis.

muncul - Wimax". Di beberapa bagian dunia ini, Wimax beroperasi di rentang 3,3-3,8 GHz. Sinyal Wimax ini memengaruhi penerimaan satelit C-band yaitu super-extended C-band (3,4-4,2 GHz) – hal ini karena berbagai band frekuensi yang umum terjadi. Untuk hal ini, pengelola C-band harus memasang filter bandpass C-band untuk menolak sinyal Wimax yang tidak diinginkan. Akan tetapi, karena filter menolak frekuensi sinyal Wimax, beberapa C-band lebih bawah juga ditolak (dikorbankan). Meskipun, pengelola C-band rela mengorbankan beberapa bagian dari C-band, jika hasilnya bagus, penerimaan yang bersih untuk sisa bagian C-band. Karena Wimax relatif masih baru, Scott melihat kebutuhan untuk filter bagi pengelola C-band akan tumbuh secara potensial untuk mengatasi masalah ini di seluruh dunia.

Dibandingkan dengan operasi C-band, pengelola Ku-band menghadapi lebih sedikit interferensi dari sumber lain, karena mereka beroperasi di rentang yang tidak terisi, band frekuensi yang lebih tinggi daripada C-band yang penuh sesak. "Akan tetapi, TRF (Transmit Reject Filters) diperlukan pada aplikasi transceiver Ku-band – karena uplink dan downlink dilakukan di antena yang sama. TRF dipasang di sisi feed penerima (10,7-12,75 GHz) untuk mengeliminasi adanya sinyal pemancar yang kuat (13,75-14,5 GHz)", Scott menjelaskan.

MFC juga memproduksi filter bandpass untuk Ka-band, "permintaan untuk filter Ka-band masih cukup rendah", ungkap Scott, "karena operasi pada frekuensi ini telah dibatasi." Sandy Nelepovitz menggambarkan kondisi perusahaan lebih jauh, "Konsumen terbesar kami adalah dalam negeri - karena MFC juga melanjutkan menjadi pelopor untuk filter CATV pada penyelenggara TV di Amerika". Sandy melanjutkan, "Penjualan ekspor telah mencapai 5% - 7% sejak tahun 1992. Akan tetapi, kami mengharapkan penjualan tersebut meningkat lebih jauh dengan bertambahnya permintaan untuk filter satelit di luar Amerika."

Siapa saja bisa memesan dari MFC, apakah filter dalam jumlah besar atau hanya satu. "Kami bahkan menawarkan garansi 30-hari uang kembali untuk filter standar",

komentar Sandy, "konsumen hanya perlu membayar ongkos kirim, jika filter tersebut bukan solusi yang diinginkan." Akan tetapi, karena konsumen telah mengetahui terlebih dahulu tipe filter yang diperlukan, tentu saja mereka tidak mengambil keuntungan dari

garansi uang-kembali ini. Namun, apa yang terjadi jika mereka tidak mengetahui tipe filter yang ingin dipilih? Sandy menjelaskan, "Staff penjualan kami dan teknisi yang paham dengan segala masalah yang akan dihadapi oleh konsumen. Sehingga, aplikasi yang diberikan, mereka akan membantu konsumen dalam pemilihan filter yang sesuai untuk pekerjaan tersebut." Namun bagi konsumen yang masih belum yakin jika suatu filter akan menyelesaikan masalah mereka, garansi ini memungkinkan mereka untuk membeli dan mencoba filter tersebut, sehingga menghindari biaya yang tinggi untuk memanggil konsultan dalam menentukan solusi mereka.

Selama beberapa tahun MFC telah membangun pasar yang menarik di dunia satelit. Dengan kombinasi pengetahuan dan komitmen pada kualitas tinggi, MFC dapat dengan mudah mengakomodir permintaan khusus dari konsumen. Jika Anda sedang mencari cara untuk memerangi interferensi, Anda telah menemukan solusi yang tepat dengan aneka filter dari MFC.



■ Ruth Arace adalah Manager Sumberdaya Manusia dan memberikan informasi kepada kami tentang karyawan MFC: "Kami memiliki 6 insinyur, 36 staff produksi dan 11 staff administrasi."



■ Di mesin bor CNC dengan Bruce Sentoff (kiri) dan Dale Newton (kanan). Kotak dan berbagai filter diproduksi di sini dari blok padat. "Kami memprogram mesinnya di malam hari setelah itu mesin akan berjalan sepanjang malam secara otomatis", Bruce Sentoff menjelaskan.

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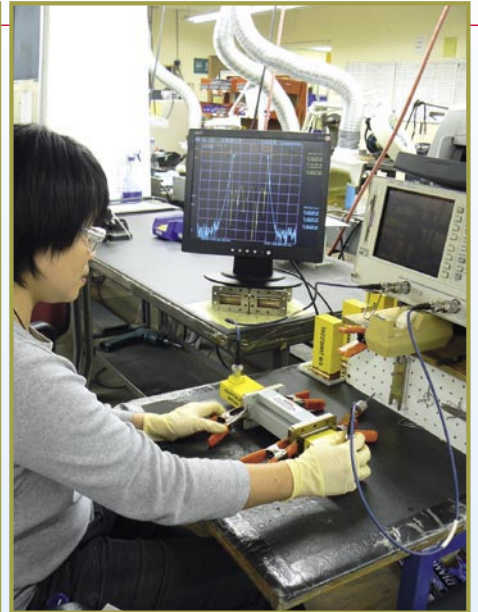
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■ Dale Newton menunjukkan tahapan produksi: dari blok padat aluminium (kiri), kotak filter yang lengkap dibor menjadi lubang untuk pemasangan konektor dan sekrup (kanan).



■ Pencari penerimaan dalam filter dipasang oleh Vertell Brantley. Lem yang digunakan perlu diset untuk tiga jam; filter diletakkan dalam peti ini untuk melindunginya dari udara luar. Selanjutnya, filter dipasangi segel kedap udara.



■ Apakah semuanya berjalan dengan benar setelah produksi? Thuy Naylor melakukan pemeriksaan akhir untuk menentukan filter berfungsi sesuai spesifikasinya dengan menghubungkan analyser jaringan untuk memastikan kinerjanya.



■ Di sini filter dipasang secara mekanis. Karyawan MFC Melissa Bench menyiapkan filter untuk oven solder...



■ Bill Adamo adalah ketua tim Kendali Mutu dan menunjukkan segel filter diuji dengan tekanan: "Filter diletakkan di sini dan ditekan dengan udara pada 5 PSI." Dengan cara ini dapat diperiksa apakah bagian dalam konektor, serta mountingnya kedap udara. "Kebocoran paling kecil bisa menyebabkan kelembaban di dalam dan bisa memengaruhi kinerja filter", kata Bill Adamo, "Kami menguji 100% dari filter kami!" Setiap konsumen dapat dipastikan bahwa seluruh filter MFC mempunyai spesifikasi yang berkualitas tinggi.



■ MFC melakukan segalanya sendiri: filter yang telah selesai disemprot dengan pelapis pelindung berwarna.



■ ... proses solder sebenarnya dilakukan di oven solder ini yang dilewati oleh filter.



■ Jalan akhir ke konsumen: filter yang telah lengkap dan telah diuji dipaket dan dikirim dari sini ke konsumen di seluruh dunia.



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ABC BIZNIS - pejuang sejati

Ini adalah kelompok muda yang sedang menuju puncak pasar receiver satelit di Eropa dengan merek sendiri OPENSAT. ABC BIZNIS didirikan pada akhir tahun 2004 dan telah mampu menjadi penyalur utama receiver satelit dalam waktu singkat. Sayangnya, kesuksesan ini terkendala oleh wafatnya pendiri perusahaan ini pada tahun 2008. Kami ingin mengetahui bagaimana ABC BIZNIS mampu bertahan dengan kejadian tragis ini.

Sekarang, ABC BIZNIS adalah agen besar yang telah mapan untuk pasaran lokal Slovakia, juga menawarkan antena, LNB, kabel coax dan receiver. Sebagai pabrikan ABC BIZNIS mengekspor receivernya dengan merk OPENSAT.

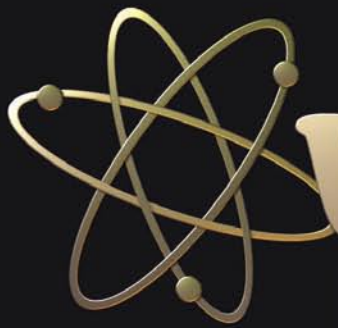
Pada awal tahun 2007 perusahaan ini memulai produksi receiver pertamanya yang dipasarkan sebagai OPENSAT. Dimulai dengan empat model receiver SD yang pada pertengahan tahun 2007 dilengkapi dengan receiver HD pertama. Pada pertengahan tahun 2008 ditawarkan receiver HD kedua. Tanpa disengaja, ini adalah juga produk yang ditampilkan oleh TELE-satelit edisi sebelum ini.

Jadi bagaimana mereka bertahan dengan kehilangan pendiri mereka yang tiba-tiba? Jawabannya dapat ditemukan di dalam tim yang sangat muda yang dibentuk oleh direktur baru Veronika Rešetková, yang menceritakan kembali apa yang telah terjadi: "Sejak meninggalnya anak saya Erik, yang merupakan pendiri ABC BIZNIS, saya mengambil alih manajemen bisnisnya." Veronika secara empati membuat pernyataan: "Terdapat rumor bahwa kami mencari merger atau

■ Veronika Rešetková menjadi Direktur ABC BIZNIS baru beberapa bulan. Foto Erik anaknya, pendiri perusahaan dan baru-baru ini meninggal dunia, mempunyai tempat khusus di meja kerjanya. Erik lah yang menjadi pendorongnya dalam membuat ABC BIZNIS menjadi pemain utama.



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■ Manager pemasaran Veronika Rešetková, anak dari Veronika Rešetková dan adik dari pendiri perusahaan Erik Rešetka. Dia yang menangani strategi iklan ABC BIZNIS dan menetapkan desain: "Bayangan berbeda dari hijau dan hitam adalah warna perusahaan kami."



■ Gedung perusahaan ABC BIZNIS: gudang berada di depan, dengan komplek kantor di belakang. "Namun ini belum semuanya," ungkap manager pemasaran Veronika Rešetková "masih ada areal gudang tambahan yang disewa dari perusahaan lain."



■ Tampak bagian departemen akunting dengan manager akuntan Zelmira Remenova (kiri), asisten akuntan Martina Ondrusova (tengah) dan administrator sistem Jefferson Kenji Takahashi.



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kerjasama usaha, namun hal ini tidaklah benar!"

Sebagai buktinya, dua tiang penting menyediakan dukungan pada rutinitas hariannya: di satu sisi adalah timnya dengan 14 karyawan yang 100% berada di belakang visi perusahaan, dan di sisi lainnya adalah pengetahuan yang ekstensif yang diperoleh Veronika Rešetková dari pekerjaan terdahulunya di manajemen bisnis yang serupa di sektor teknologi. Adik perempuan Erik, juga bernama Veronika, menceritakan masa-masa awal perusahaan ini: "Bahkan ketika masih berumur 13 tahun Erik telah membantu bisnis ayah kami." Karir profesionalnya juga dimulai di perusahaan ayahnya, namun setelah sepuluh tahun Erik merasa saatnya untuk merealisasikan idenya sendiri, yang terutama berfokus pada pembuatan merk OPENSAT. Dia bekerja

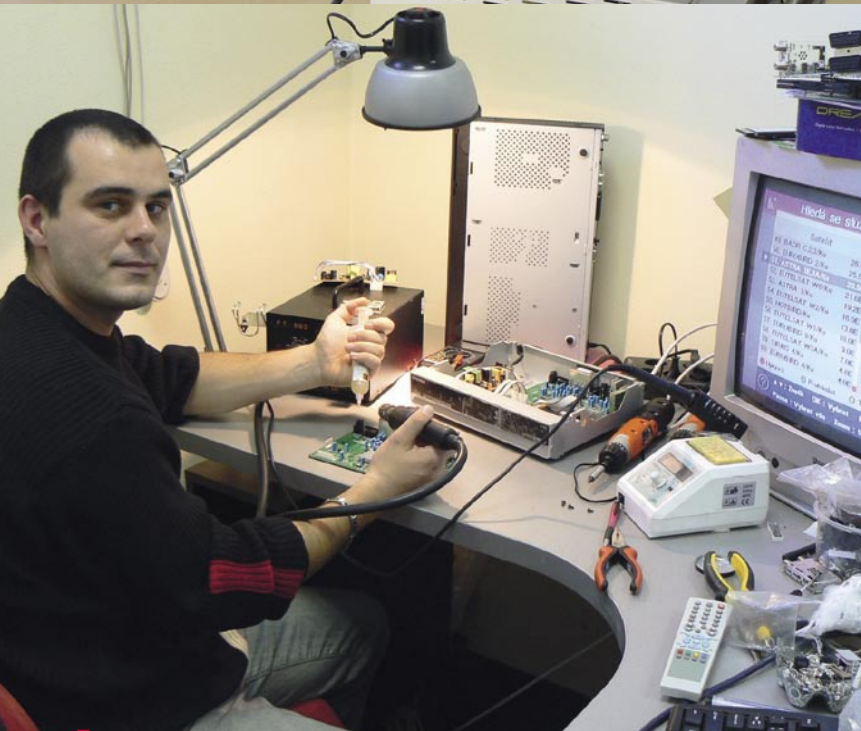
■ Barang-barang dipersiapkan di gudang untuk pengiriman. Manager gudang Martin Patay mengoperasikan forklift, Lukas Michalik (kanan) adalah salah seorang pengemudi, dan Jefferson Kenji Takahashi (kirim) memeriksa receiver yang akan dikirim.



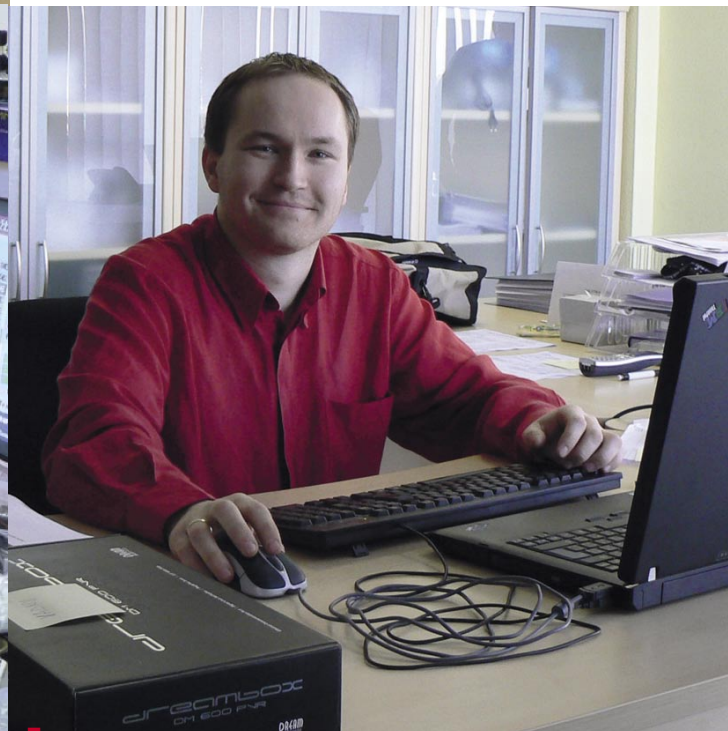
■ Manager pembelian Karolina Streicherová selalu berhubungan dengan para pemasok.



■ Siapa saja yang memesan receiver satelit dari ABC BIZNIS akan berhubungan dengan manager penjualan Hana Danišová. Dia berbicara bahasa Inggris dengan sempurna dan memberikan dukungan profesional kepada konsumen dari seluruh Eropa. Dia sangat bangga dengan kesuksesan model dari ABC BIZNIS: "OPENSAT X7000 adalah penjualan terbesar kami, dengan 40% dari pesanan receiver adalah untuk model ini." 25% masing-masing untuk OPENSAT X7000CI dan X7700, sedangkan sisa 10% adalah untuk XT9500HD, receiver HDTV.



■ Bahkan produk berkualitas tinggi mungkin bisa gagal. Peter Ciljak adalah salah satu dari dua teknisi di ABC BIZNIS. Di sini terlihat dia sedang mengganti chipset yang rusak.



■ Manager IT Alexander Marko menangani infrastruktur perusahaan dan juga menyediakan dukungan kepada konsumen ABC BIZNIS.

sama dengan Karolina Štreicherová, sekarang sebagai manager pembelian ABC BIZNIS, dengan seorang pengemudi, dan pada tahun 2004 mendirikan perusahaan ABC BIZNIS.

Dengan adanya ide kreatif ini dan kenyataan bahwa mereka mewakili apa yang diinginkan pasar, maka tidak memerlukan waktu lama untuk berhasil dengan produk yang dipasarkan dengan merk sendiri OPENSAT. Dalam waktu singkat dia membangun pasaran setempat OPENSAT di Slovakia, dan kemudian pada tahun 2007 dia mulai mencari pasaran luar negeri,

yang pertama yaitu pasaran Czech. Segera dia bisa mendapatkan rasio ekspor sebesar 40 persen, pada tahun 2008 kuota ekspor bahkan mencapai 50 persen receiver merk OPENSAT yang dikirim ke luar negeri. Karolina Štreicherová yang telah menjadi bagian dari tim ini sejak awal memberitahukan tentang kuota ekspor merk OPENSAT ke berbagai pasaran: "Republik Czech sebagai tetangga terdekat mengambil porsi besar untuk produk OPENSAT, yang mencapai 50 persen, diikuti oleh Jerman dan Swiss dengan masing-masing 20 persen dan sisa 10 persen untuk wilayah lain di Eropa."

ABC BIZNIS saat ini menargetkan pasaran ke negara Spanyol dan Portugis, mereka ingin melihat pertumbuhan porsi pasaran mereka dan selanjutnya mencari rekanan penyalur. "Kami juga mencari di negara Austria dan Benelux," Karolina menambahkan "serta di negara tetangga seperti Hungaria dan Ukraina, kami juga memerlukan lebih banyak penyalur."

Director Veronika Rešetková kemudian menyampaikan argumen penjualan yang signifikan: "Kami mengirim seluruh produk kami tanpa ongkos kirim!" Hal ini dilakukan dengan armada sebanyak empat mobil pengangkut Mercedes

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Benz Sprinter yang dimiliki oleh ABC BIZNIS dan yang selalu mengantar pesanan ke seluruh Eropa. "Kami juga tidak menetapkan pembatasan pesanan minimum," Veronika menambahkan "dan sehingga kami bisa mengantar bagian kecil tanpa tambahan biaya." Ini adalah keuntungan yang penting untuk penyalur kecil dan distributor khususnya. "Kami ingin memberi kesempatan bagi konsumen kecil untuk berkembang, dan dengan cara ini kami bisa tumbuh bersama mereka," Veronika mempunyai poin penting lainnya. Manager Penjualan Hana Danišová juga memiliki lebih banyak kabar baik di toko: "Umumnya, seluruh produk kami hadir dengan garansi dua tahun!"

Pada saat Anda membaca laporan ini, akan ada model baru yang hadir. Manager Penjualan Hana Danišová menyebutkan daftar tambahan model baru tersebut: "Ada OPENSAT 3000 CR PVR yaitu PVR dengan pembaca kartu tunggal. Kemudian ada OPENSAT 3000 CRCI PVR yang memiliki tambahan modul CI. Kedua model tersebut juga tersedia sebagai OPENSAT 3500 HDMI PVR dan OPENSAT 3500 CI HDMI PVR – sebagaimana tercantum dalam namanya – juga memiliki fitur HDMI."

Meskipun kehilangan pendiri perusahaan merupakan peristiwa yang tragis sebagaimana yang bisa Anda bayangkan, tim yang berada di sekitar Veronika Rešetková telah menjadi semakin dekat sejak itu. Mereka bertindak bersama-sama dan setiap orang memiliki tugas tertentu sehingga operasi berjalan dengan lancar. Veronika, anak dari manager baru dan adik dari pendiri perusahaan, memiliki penjelasan sederhana untuk kesuksesan mereka ini: "Kita semua tahu bahwa Erik ingin mencapai tujuannya dan kami bekerja menuju tujuannya tersebut."

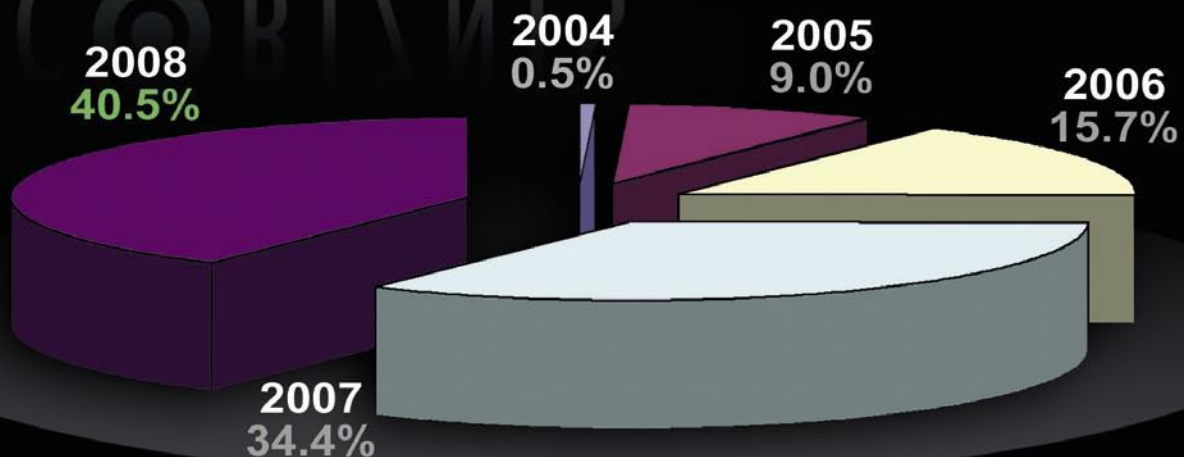
ABC BIZNIS telah berkembang dengan pesat sejak tahun 2004. Sebelumnya turnover di negara-negara Eropa hanya 0,5 persen dari seluruh turnover, dibandingkan dengan 40,5 persen pada tahun 2008.



Bersedia untuk foto bersama; dua Veronika (ibu di tengah, dan anak di sebelahnyanya) dikelilingi oleh hampir seluruh karyawan. Rata-rata umur karyawan adalah antara 30 dan 35 tahun.

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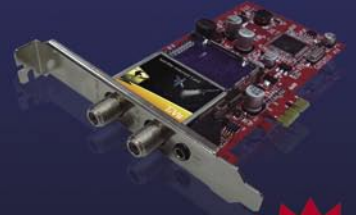
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Manfred Weller, who comes from Cologne/Germany, arrived in Tenerife in the Canary Islands in 1987. He started as a time share salesman: tourists would purchase ownership in a vacation apartment for a certain time each year. But, as an electrician by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

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

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

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

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

Mennyfix

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

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

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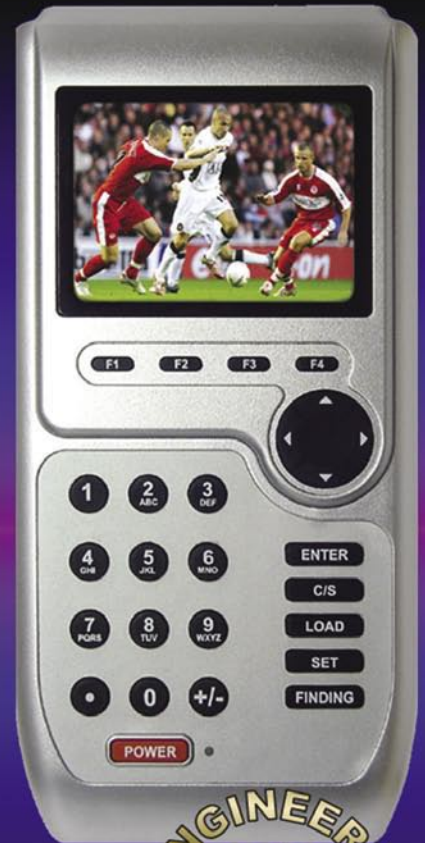
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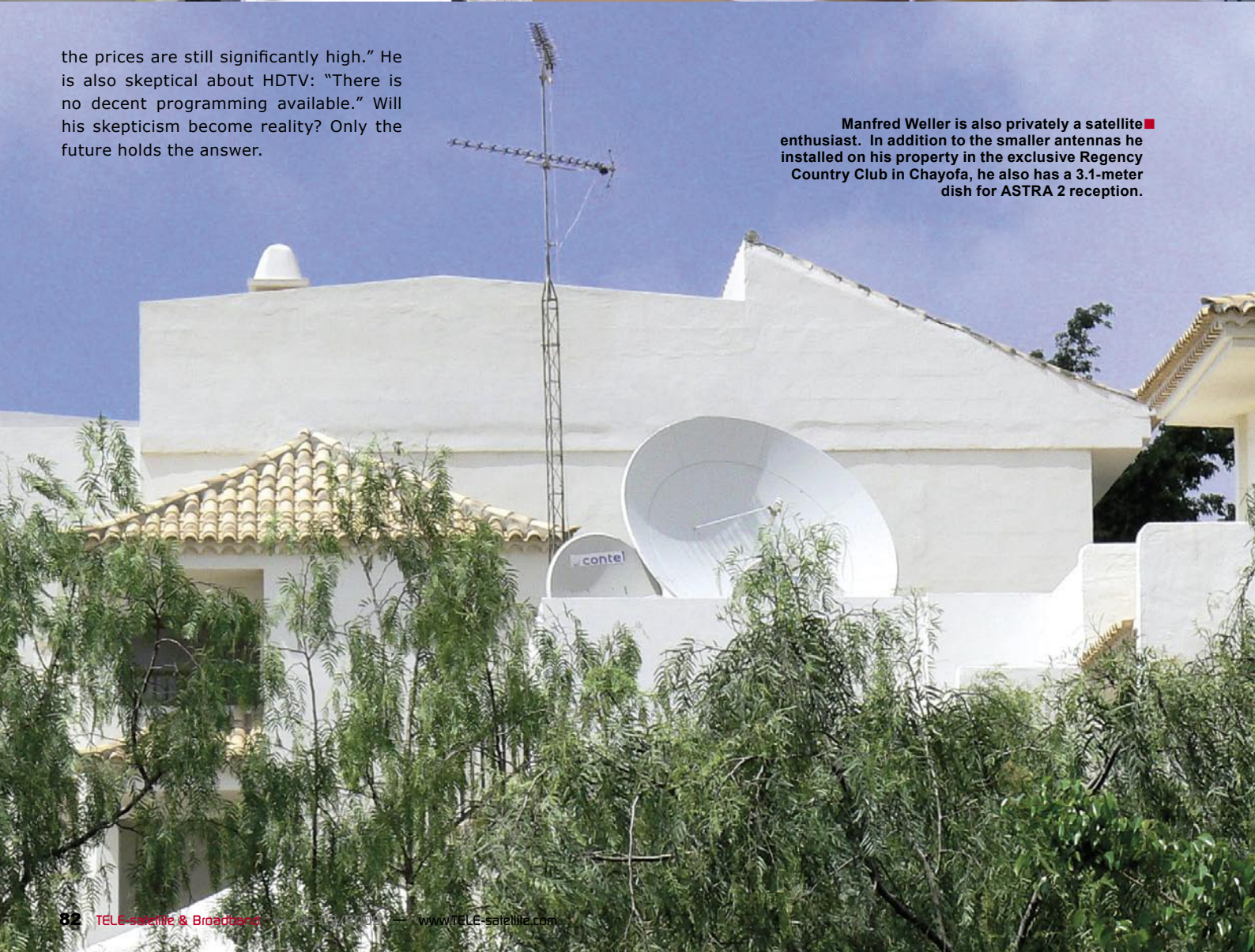
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Manfred Weller, nicknamed Menny, speaking with customers. After hanging up his landline telephone, it doesn't take long for his mobile phone to ring. He can speak with his customers fluently in three languages: German, English and Spanish. He has been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

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

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



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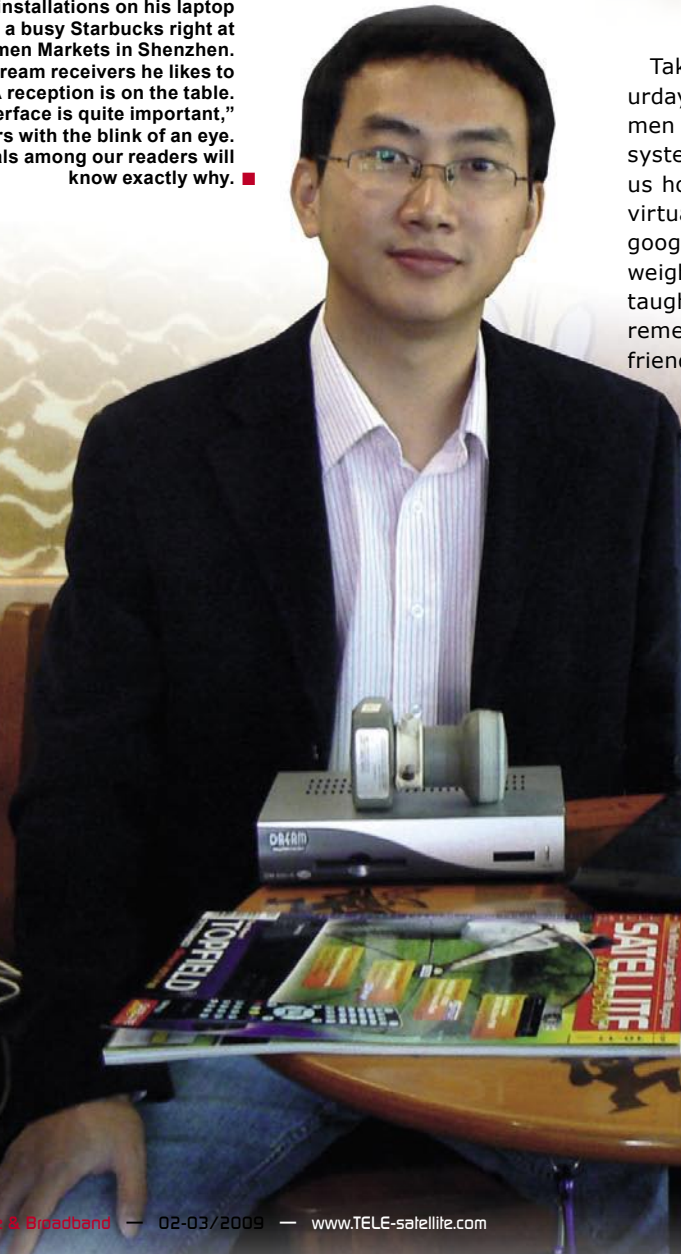
Shenzhen Satellites

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



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

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



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



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

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

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

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

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



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

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Edited by
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ASTRA WITH 55 HDTV CHANNELS

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

SPACE SYSTEMS/LORAL TO PROVIDE SIRIUS 5 SATELLITE

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

SES LAUNCHES ASTRA 1M SUCCESSFULLY

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

MTV TO LAUNCH HDTV SERVICE WITH GLOBECAST

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

BULGARIA

MEGALAN SELECTS SECUREMEDIA FOR IPTV SERVICE

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

CROATIA

T-HT WITH 100,000 SUBSCRIBERS FOR IPTV SERVICE

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

FRANCE

PRIVATE MEDIA SIGNS IPTV CONTENT DEAL WITH VIRGINMEGA

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

FOUR FRENCH TV CHANNELS GO HDTV

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

ORANGE FRANCE WITH 1.6 MILLION SUBSCRIBERS

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

GERMANY

DT WITH 333,000 CUSTOMERS FOR IPTV SERVICE

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

GREECE

PRIMETEL INTRODUCES ARABIC MIDDLEWARE

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

ITALY

TELECOM ITALIA TARGETS 1.5 MILLION IPTV SUBSCRIBERS

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

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

LITHUANIA

TWO WAY MEDIA IN IPTV GAMES DEAL WITH PENKI KONTINENTAI

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

TEO WITH 47,500 IPTV SUBSCRIBERS

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

MACEDONIA

MAKTEL LAUNCHES MAXTV IPTV SERVICE

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

THE NETHERLANDS

KPN WITH 30,000 IPTV SUBSCRIBERS

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

POLAND

TPSA ADDS 3,000 IPTV SUBSCRIBERS IN Q3

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

CYFROWY POLSAT LAUNCHES ECHOSTAR'S NEW STBS

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

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

RUSSIA

IPTV SUBSCRIBERS TO DOUBLE BY 2012

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

EUTELSAT TO COMPENSATE SHORTAGE OF SATELLITE CAPACITY

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

REDCOM BRINGS HDTV TO FAR EAST REGION

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

SCANDINAVIA

TELIAISONERA RACHES 450,000 IPTV SUBSCRIBERS

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

AMINO ACQUIRES TILGIN'S IPTV BUSINESS

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

SPAIN

REGULATOR SUSPENDS TELEFONICA'S TRIPLE-PLAY

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

TELEFONICA LAUNCHES IMAGENIO HD

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

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

SWITZERLAND

SWISSCOM BLUEWIN TV ADDS HD VOD TITLES

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

TURKEY

SEACHANGE AND ARGELA TO BRING IPTV TO TURK TELEKOM

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

AIRTIES SELECTS OPERA FOR NEW IPTV STB

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

UNITED KINGDOM

BROADCASTERS TO LAUNCH HD ON DTT

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

BBC PLANS OPEN IPTV PLATFORM

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

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

BT VISION LAUNCHES CATCH-UP IPTV PLATFORM

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

SKY LAUNCHES ONLINE TV SERVICE

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

FOX SIGNS VOD/IPTV DEAL WITH BT VISION

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

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

BBC INTRODUCES LIVE STREAMS ON IPTV PLAYER

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

NORTH AMERICA

ARIANESPACE TO LAUNCH VIASAT-1

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

CANADA

ZENIT ROCKET TO LAUNCH TELSTAR SATELLITE

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

TELESAT TO MANAGE TWO NEW SATELLITES

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

INTRACOM DELIVERS IPTV SOLUTION TO WIGHTMAN TELECOM

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

UNITED STATES

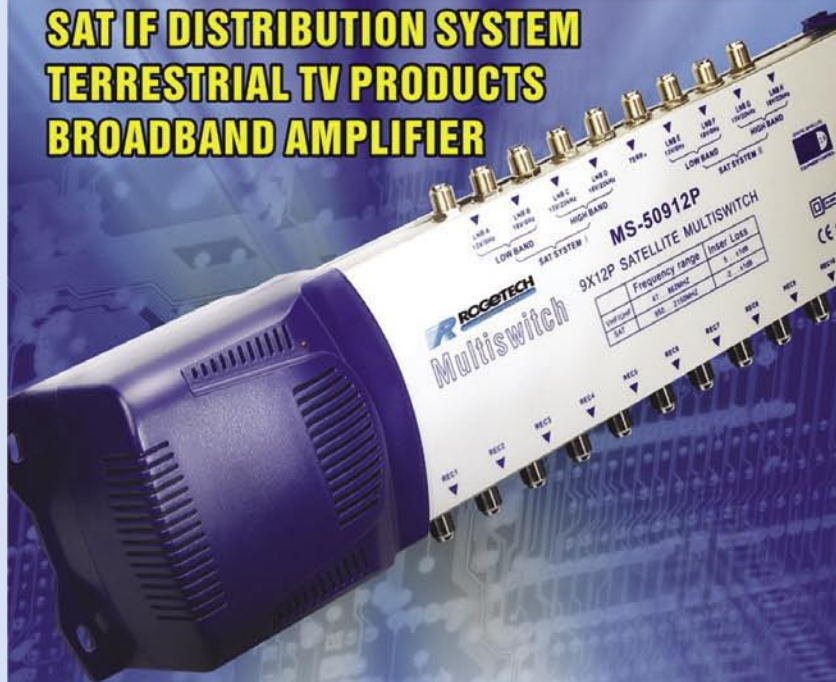
ENTONE SELECTED BY ITC FOR IPTV DEPLOYMENT

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

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AT&T TO SELL IPTV SERVICE AT RETAIL SERVICE

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

KIT DIGITAL TO DELIVER IPTV STB

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

RURAL IPTV CARRIERS GET HBO, CINEMAX RIGHTS

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

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

SES AMERICOM FILLS UP CAPACITY ON AMC-21 SATELLITE

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

WORLDSPACE FILES FOR BANKRUPTCY

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

VERIZON DELIVERS 1,000 HD VOD OFFERINGS

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

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

ION TV SUITE TO LAUNCH IN HD DURING 2009

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

TV-DESI LAUNCHES NEW IPTV SERVICE FOR ASIANS

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

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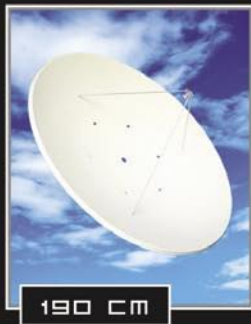
240 CM



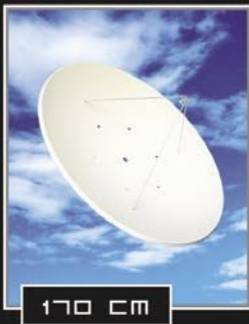
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210 CM



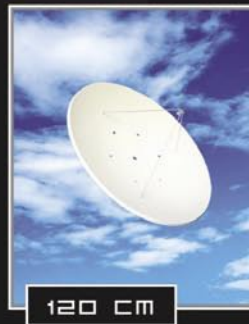
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TWIN LAKES TELEPHONE COOPERATIVE LAUNCHES IPTV TRIALS

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

LATIN AMERICA

COLOMBIA

EMCALI AIMS FOR 13,000 IPTV CLIENTS

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

VENEZUELA

VENESAT-1 LAUNCHED INTO ORBIT

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

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

ASIA

GOLDSTONE TO LAUNCH IPTV SERVICES IN MALAYSIA, THAILAND

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

ORBITAL COMPLETES WORK ON NSS-9 SATELLITE

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

IPTV TO REACH 22.4 MILLION SUBSCRIBERS BY 2013

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

CHINA

CHINA TELECOM TOPS 1.5 MILLION IPTV SUBSCRIBERS

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

JIANGSU PROVINCE IPTV SUBSCRIBERS UP 471 PERCENT

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

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

SMC TO LAUNCH IPTV IN GUANGDONG PROVINCE

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

HUAXIA NETWORK RECEIVES IPTV LICENSE

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

UTSTARCOM GETS IPTV ORDER FROM HUNAN PROVINCE

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

INDIA

AKSH TARGETS 40,000 IPTV SUBSCRIBERS

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

BHARTI AIRTEL TO LAUNCH IPTV IN SIX CITIES

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

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

BSNL TO LAUNCH IPTV SERVICE IN PUNJAB

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

DTH OPERATORS TO OFFER HD CONTENT

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

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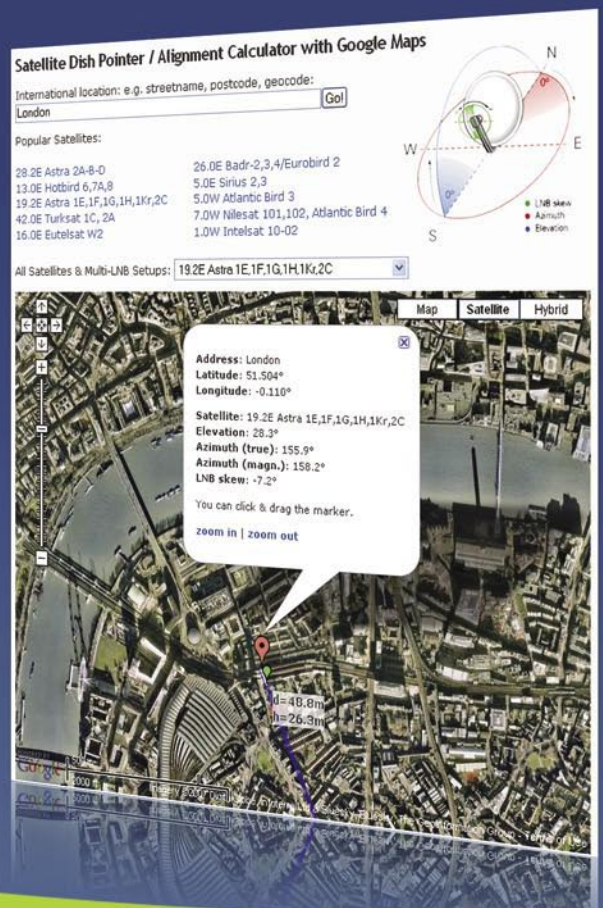
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JAPAN

NHK LAUNCHES ON DEMAND INTERNET PAY-TV

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

JAPAN WITH OVER 3 MILLION IPTV SUBSCRIBERS BY 2012

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

MITSUBISHI ELECTRIC GETS ORDER FOR ST-2 SATELLITE

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

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

KAZAKHSTAN

KAZAKH SATELLITE BROUGHT BACK INTO ORBIT

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

LEBANON

ORANGE AND SOLIDERE LAUNCH FIRST IPTV SERVICE

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

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

PAKISTAN

PTCL REPORTS OVER 1,000 IPTV SUBSCRIBERS

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

SINGAPORE

VOOM TEAMS UP WITH IFW FOR 2009 LAUNCH

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

STARHUB LAUNCHES NEW HD DVR

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

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

SOUTH KOREA

KT TO OFFER NATIONAL TV CHANNELS ON IPTV

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

SK BROADBAND SELECTS TANDBERG FOR IPTV

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

TAIWAN

CHUNGWA TELECOM ENDS Q3 WITH 591,000 SUBSCRIBERS

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

UNITED ARAB EMIRATES

AL ROSTAMANI PARTNERS WITH NAGRAVISION ON IPTV PLATFORM

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

DU SURPASSES 50,000 IPTV SUBSCRIBER MARK

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

AUSTRALIA & PACIFIC

NEW ZEALAND

FREEVIEW LAUNCHES HD BOX

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

AFRICA

ARIANESPACE TO LAUNCH RASCOM SATELLITE IN 2010

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

NIGERIA

TECHNICAL PROBLEMS SHUT DOWN NIGERIAN SATELLITE

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

SOUTH AFRICA

SECUREMEDIA SELECTED FOR IPTV CONTENT PROTECTION

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

WORLD

ATIS RELEASES NEW IPTV STANDARD

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

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

INTELSAT RETIRES MARISAT-F2 SATELLITE

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

MTVNHD SET FOR GLOBAL ROLL OUT

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

GLOBAL IPTV SUBSCRIBERS TO REACH 89.6 MILLION IN 2012

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

MORE THAN 1500 NEW TRANSPONDER LEASES IN NEXT TEN YEARS

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

BNS LAUNCHES HD VOD VIA IPTV

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



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



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

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



● **21 - 23 March: CCBN 2009**

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



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

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



● **25 - 27 May 2009: MECOM 2009**

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



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

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



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

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



● **26 - 28 August 2009: SET 2009**

18th Broadcast & Cable International Fair
Centro de Exposições, Rod. dos Imigrantes
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www.broadcastcable.com.br



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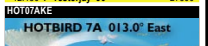
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#210	04/2009	6 February 2009	13 March 2009	27 March 2009
#211	06/2009	3 April 2009	15 May 2009	29 May 2009
#212	08/2009	5 June 2009	17 July 2009	31 July 2009
#213	12/2009	2 October 2009	13 November 2009	27 November 2009
#214	02/2010	4 December 2009	15 January 2010	29 January 2010

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

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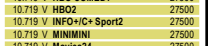
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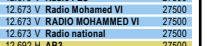
HOTBIRD 7A 013.0° East



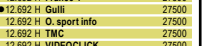
KU-BAND



EUTELSAT W2 016.0° East



EUTELSAT W2 016.0° East



KU-BAND



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Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for the EASIOK1KV coverage area.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for the EURASIASAT 1 042.0° East coverage area.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for the EURASIASAT 1 042.0° East coverage area (continued).

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Table listing satellite TV services and frequencies across various orbital positions (80.0° East, 83.0° East, 88.0° East, 90.0° East, 100.0° East, 110.0° East, 115.0° East, 120.0° East, 130.0° East, 140.0° East, 150.0° East, 160.0° East, 170.0° East, 180.0° East). Each entry includes service name, frequency, and other technical details.

Main table listing satellite channels, frequencies, and symbols. Includes regional maps for Asia, Europe, and the Americas with callouts for specific satellite coverage areas like ASIASAT 2, ASIASAT 35, and NSS10A.

Vertical column on the right side listing satellite channels and their frequencies, including entries like NSS10A, NSS11, and NSS12.

SatcoDX Global Satellite Chart 02/2009

Main table containing satellite data with columns for Channel Name, Symbol rate, Freq Pol Channel Name, Symbol rate, and Freq Pol Channel Name. Includes sub-tables for AsiaSat 3, AsiaSat 4, and AsiaSat 5.

KOREASAT 3 116.0° East

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C-Band ASTAR 6

ASTAR 6 134.0° East

ASTAR 6 134.0° East

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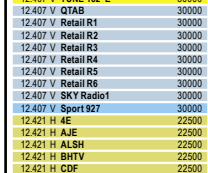
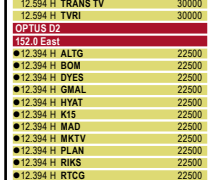
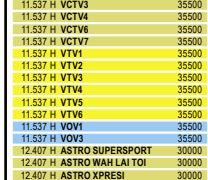
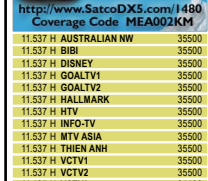
ASTAR 6 134.0° East

ASTAR 6 134.0° East

ASTAR 6 134.0° East

ASTAR 6 134.0° East

Main table listing satellite channels with columns for Freq, Pol, Channel Name, Symbol rate, and GHz. Includes various channel names like MEASAT, C-Band, and EXPRESS AM-3.



SatcoDX Global Satellite Chart 02/2009

Main satellite chart table with columns: Freq Pol Channel Name, Symbol rate, Freq Pol Channel Name, Symbol rate, Freq Pol Channel Name, Symbol rate, Freq Pol Channel Name, Symbol rate, Freq Pol Channel Name, Symbol rate, Freq Pol Channel Name, Symbol rate. Includes various satellite names and frequencies.



Table of satellite channels for AMC101B, listing channel names, frequencies, and coverage areas like 'C-Band' and 'Ku-Band'.

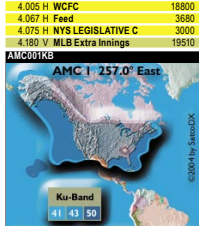


Table of satellite channels for AMC101B, listing channel names, frequencies, and coverage areas like 'Ku-Band'.

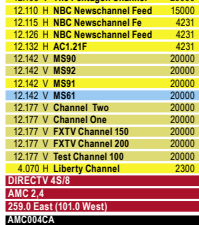


Table of satellite channels for AMC101B, listing channel names, frequencies, and coverage areas like 'C-Band' and 'Ku-Band'.

Table of satellite channels for AMC101C, listing channel names, frequencies, and coverage areas like 'Ku-Band'.

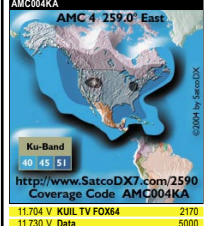


Table of satellite channels for AMC101C, listing channel names, frequencies, and coverage areas like 'Ku-Band'.

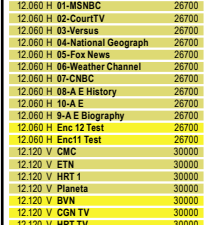


Table of satellite channels for AMC101C, listing channel names, frequencies, and coverage areas like 'C-Band' and 'Ku-Band'.

Main table listing satellite channels with columns for Freq Pol Channel Name, Symbol rate, and GHz. Includes multiple columns of channel data and coverage maps for various satellites like NSS10CN, HISPASAT 1C, and HISPASAT 1D.

Vertical sidebar on the right containing satellite coverage maps and channel lists for various satellites, including INTELSAT 907, HISPASAT 1C, and HISPASAT 1D.

SatcoDX Global Satellite chart 02/2009

Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz	Freq Pol Channel Name	Symbol rate	GHz
1.0408 H COMSATION	14400	11.678 H NBA Path 2	28570	1.0408 H COMSATION	14400	11.678 H NBA Path 2	28570	1.0408 H COMSATION	14400	11.678 H NBA Path 2	28570	1.0408 H COMSATION	14400	11.678 H NBA Path 2

SatcoDX Global Satellite Chart 02/2009

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 12.302H, 12.302L, etc.

EUAT36WB ATLANTIC BIRD 3 355.0° East. Includes a map of the Atlantic Ocean and a list of channels such as 12.614 H SEX ON TV CRYSTAL, 12.614 H SEX ON TV DIAMOND, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 12.614 H, 12.614 L, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 12.614 H, 12.614 L, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 12.527 H, 12.527 L, etc.

AMOS 2 356.0° East. Includes a map of the Atlantic Ocean and a list of channels such as 12.720 V BBC World, 12.720 V Cartoon Network, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 12.720 V, 12.720 H, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 10.975 V, 10.975 H, etc.

EUAT36WB ATLANTIC BIRD 3 355.0° East. Includes a map of the Atlantic Ocean and a list of channels such as 3.648 H Tele Sahel (MUT), 3.656 R KTN NGONG ENC B, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 10.975 V, 10.975 H, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 10.975 V, 10.975 H, etc.

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Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 10.975 V, 10.975 H, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 11.590 V, 11.590 H, etc.

AMOS 2 356.0° East. Includes a map of the Atlantic Ocean and a list of channels such as 10.720 V RTL Klub, 10.720 V RTL Klub, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 10.720 V, 10.720 H, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 10.720 V, 10.720 H, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 10.720 V, 10.720 H, etc.

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Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 11.590 V, 11.590 H, etc.

EUAT36WB ATLANTIC BIRD 3 355.0° East. Includes a map of the Atlantic Ocean and a list of channels such as 12.614 H SEX ON TV CRYSTAL, 12.614 H SEX ON TV DIAMOND, etc.

Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 12.614 H, 12.614 L, etc.

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Table with columns: Freq, Pol, Channel Name, Symbol rate, GHz. Lists satellite channels for various frequencies including 12.614 H, 12.614 L, etc.



Edited by
Alexander Wiese

20 Years Ago

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



BEL-TRONICS SATELLITEN-EMPFANGSSYSTEME

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MASPRO DENKOH CORP., Nagoya, Japan

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

Europas Satelliten

Programme Verteilsatelliten für Europa im Sendebereich 10.95 bis 11.70 GHz

Stand: Februar 1988

Immer aktuell informiert mit TELE-satellit, der Satelliten-Fachzeitschrift von TELE-audiovision 089 - 448 03 28

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Professionelle Kunden werden direkt beraten von PROSAT Projektberatung Satellitenempfang Karlsruhe 0721 - 40 25 82

Satellit	Position Grad	Programm	Sendeland	Sprache	Frequenz GHz	Polarisat.	Beam	Eintr.	Video	Mod.	Scrambl.	Empfang	Leistung dBW	Zeiten	Bemerkungen
INTELSAT VA-F11	27.5 W	MTV Europe	USA	Engl.	10.28	Horiz.	West	PAL	Neg.	ja	6.92	7.02 & 7.20 (WEGENER-System)	45	24	Videotext Baggflotten Südico
INTELSAT VA-F10	24.5 W	Canal 10	Großbritannien	spanisch	10.98	Vertikal	Ost	PAL	Neg.	ja	6.90	7.02 & 7.20 (WEGENER-System)	45	24	Kinder- / Spielfilme Baggflotten Stereo
INTELSAT V-F2	1 West	NTV Test	Norwegen	norwegisch	11.01	Horiz.	West	PAL	Neg.	ja	6.80	6.80	45	24	Unterhaltung + Kultur
EUTELSAT I-F2	7 Ost	New World Chan.	Norwegen	engl./norweg.	11.47	Horiz.	West	PAL	Neg.	ja	6.80	6.80	45	24	Unterhaltung + Kultur
EUTELSAT I-F1	13 Ost	RTL plus	Italien	italienisch	11.00	Horiz.	West	PAL	Neg.	ja	6.85	7.15 & 7.81	45	24	Unterhaltung + Kultur
INTELSAT VA-F12	60 Ost	SSAT	BRD	deutsch	10.97	Horiz.	West	PAL	Neg.	ja	6.85	7.02 & 7.20 (WEGENER-System)	45	24	Unterhaltung + Kultur
INTELSAT V-F5	63 Ost	IRB TV2	Iran	persisch	11.15	Vertikal	West	Digital	Neg.	ja	6.80	6.80	45	24	Unterhaltung + Kultur

Zusammengestellt nach Empfangsmessungen von PROSAT Projektberatung Satellitenempfang. © 1988 by PROSAT

Satellit	Position Grad	Programm	Sendeland	Sprache	Frequenz GHz	Polarisat.	Beam	Eintr.	Mod.	Scrambl.	Empfang	Leistung dBW	Zeiten	Bemerkungen
INTELSAT VA-F11	27.5 W	BBC Worldserv.	Großbritannien	englisch	11.18	Horiz.	West	WEGENER	7.20	-	Frei	45	24	Mono // Kurzweile
INTELSAT V-F2	1 West	NRK P1	Norwegen	norwegisch	11.20	Vertikal	West	Digital	MAC	-	Frei	45	24	Landprogramm Stereo
EUTELSAT I-F1	13 Ost	Radio Luxemburg	Luxemburg	deutsch	11.08	Vertikal	Ost	WEGENER	7.02 & 7.20	-	Frei	45	24	Stereo
INTELSAT VA-F12	60 Ost	BBC Worldserv.	Großbritannien	englisch	11.18	Horiz.	West	WEGENER	7.20 & 7.20	-	Frei	45	24	Mono // Kurzweile
INTELSAT V-F5	63 Ost	IRB Radio 2	Iran	persisch	11.15	Vertikal	West	Digital	MAC	-	Frei	45	24	Landprogramm Stereo

Satelliten Receiver

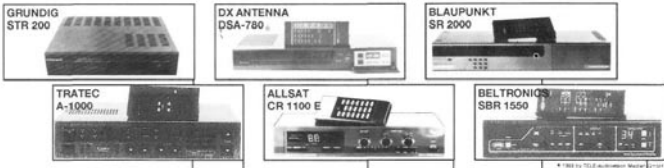


Table listing specifications for various satellite receivers including features like channel selection, audio output, and remote control compatibility.

English Summary
Europe's 12 most commonly used satellite receivers. All have been tested. Ratings read every grade (1 = sehr gut) - grade 10 = sehr befriedigend.

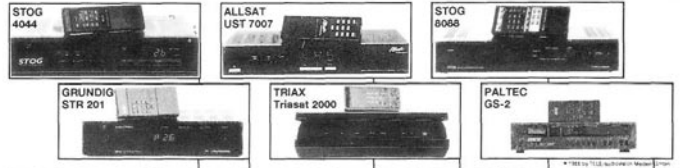


Table listing specifications for various satellite receivers including features like channel selection, audio output, and remote control compatibility.

Advertisement for WISI Satellite TV featuring a parabolic antenna and a receiver. Includes text: 'Zusätzliche TV-Programme gewünscht? Die drehbare Parabolantenne macht's möglich!' and 'WISI STEREO SATELLITEN RECEIVER OR 210'.

Advertisement for 'For Complete Satellite Systems' featuring a logo and technical specifications for receivers and antennas.

Advertisement for 'DER NEUE GS-2' featuring an image of the receiver and a remote control. Text: '(Test in dieser Ausgabe)'. Includes contact information for TELESAT.

Advertisement for 'MICRO-->' featuring a logo and contact information for Europe's No. 1 Distributor in Satellite Receiver Systems.

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http://magazine.TELE-satellite.com/vintage/TELE-satellite-8801-deu.pdf



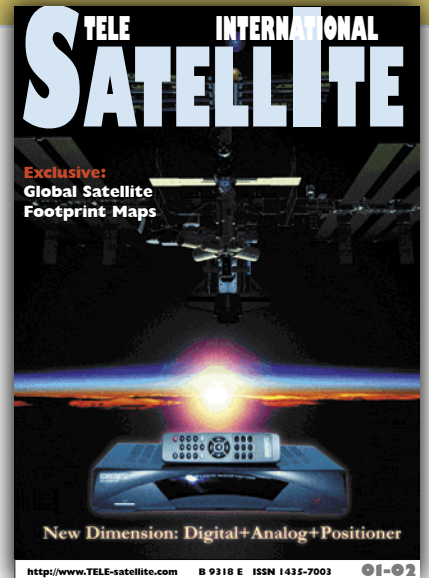
Edited by
Alexander Wiese

Echostar AD-2000 IP

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

10 Years Ago

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



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

Drake ESR 324 Earth Station Receiver

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

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

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

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



manent polarisation can also be selected with the polarisation switch.

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

**MSK 33
Measuring QPSK and QAM**

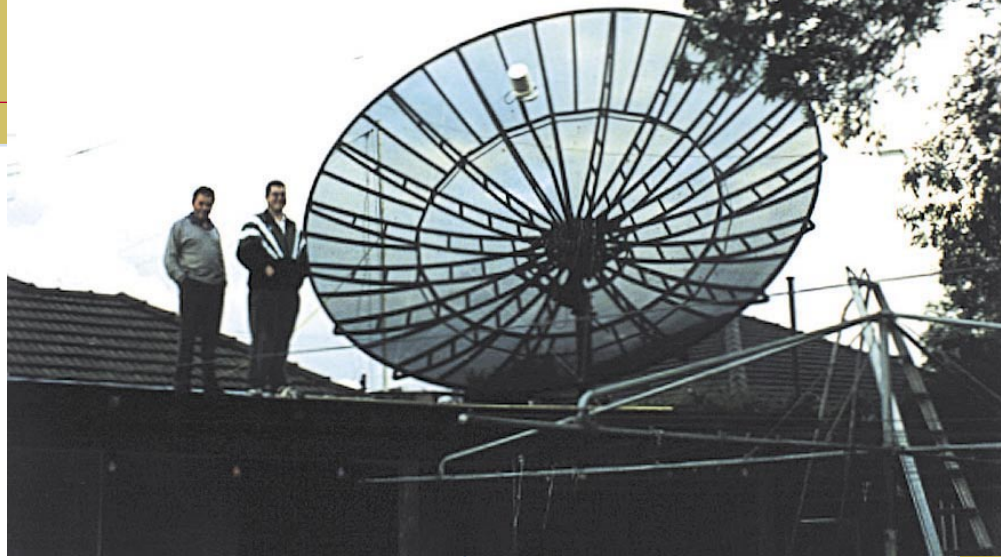
Good measuring equipment can always be recognised by its size and even more by its weight. You will see most professional engineers carrying around a heavy case. But out there, up on the roof, the heavier the tool to perfectly align the dish, the more dangerous it becomes for the one who is doing the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



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

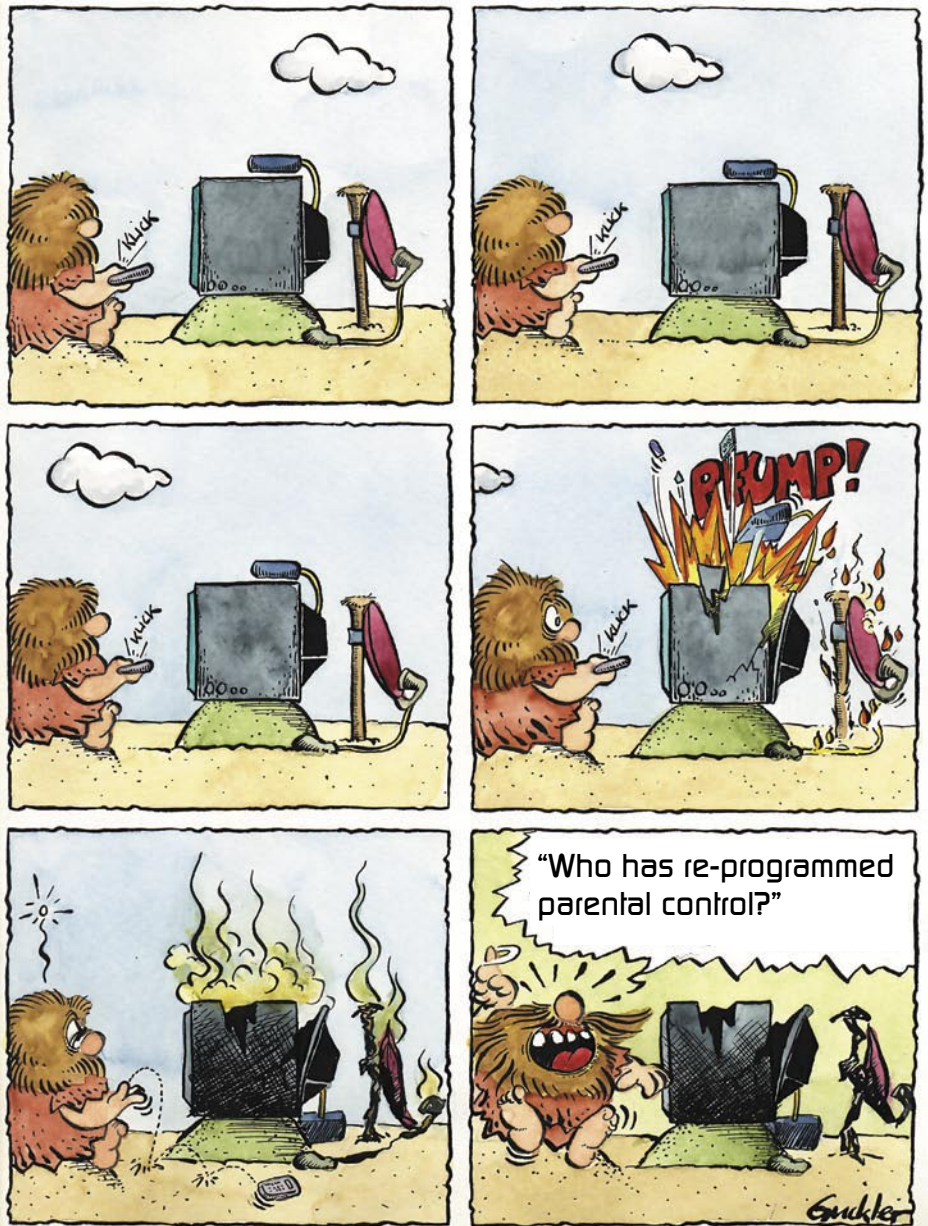
Australian Satellite DXer Bevin Boden

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



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

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



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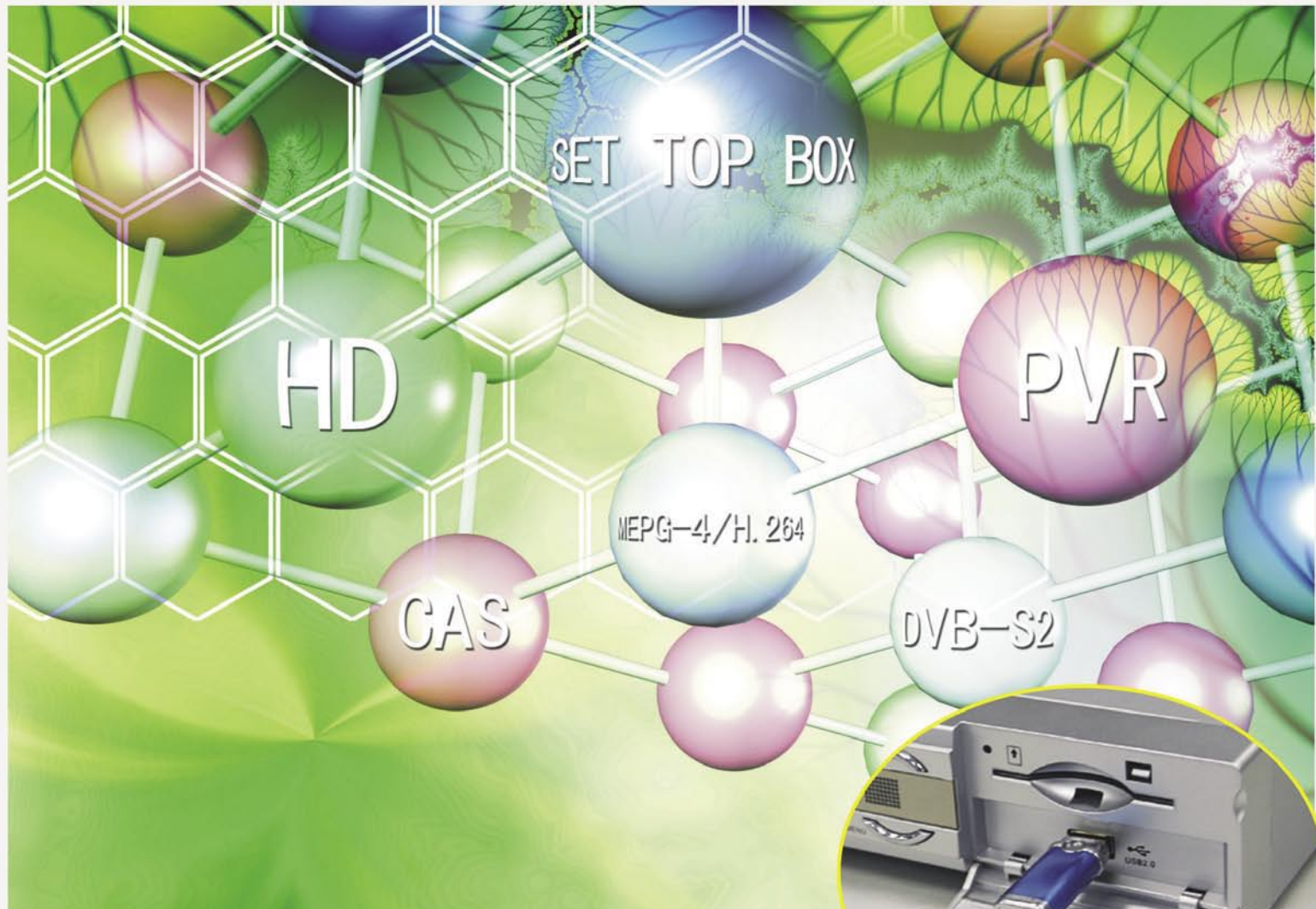
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L Band Optical Transmitter



JIUZHOU ELECTRIC GROUP

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