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Eksklusif untuk Pembaca TELE-satelit "Dunia Satelit" SatcoDX

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



Alamat Redaksi:

TELE-satelit
PO Box 1234
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Alexander Wiese
alex@TELE-satellite.com

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Desain Grafis

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Cakupan Satelit: Melihat Wilayah Pancaran Satelit

Eksport 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

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Hanya Untuk Penggunaan Pribadi dan Perorangan
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Mencetak Daftar Saluran dengan Gambar Cakupan Satelit dalam format HTML

The screenshots show the following features:

- Channel List:** A table with columns for Position Code and Satellite, Type, Ch, Freq, Coverage, and Channel Name. It lists various channels like 'Telefuturo (left audio)', 'Radio Futuro (right audio)', 'Canal 5 El Lider', etc.
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Pembaca Yang Budiman,



Bagaimana krisis keuangan global yang baru-baru ini terjadi memengaruhi industri satelit? Sepertinya ada dua opini yang berbeda untuk hal ini. Beberapa di antaranya melihat meningkatnya kepercayaan bahwa orang-orang pada waktu tidak tertentu akan lebih banyak tinggal di rumah sehingga lebih banyak mengambil keuntungan dari berbagai variasi yang ditawarkan oleh TV satelit. Jika Anda tidak tentu dalam keamanan pekerjaan Anda, jika Anda lebih memedulikan tentang uang yang Anda miliki di rekening tabungan dan jika Anda memasangkan mata yang tajam terhadap berapa uang yang dikeluarkan, maka Anda akan lebih banyak tinggal di rumah dan menikmati saluran TV satelit favorit Anda.

Namun terdapat pula sisi lain dari uang logam tersebut. Mereka menyatakan alasan yang sama namun dengan efek yang berlawanan: jika Anda sedang dalam tahap menghemat uang, Anda akan kurang membelanjakan uang untuk receiver satelit baru. Pada akhirnya, mereka terlampau melihat kenyataan bahwa TV satelit sebenarnya merupakan cara yang ekonomis untuk menerima sejumlah besar saluran TV – investasi dalam sistem satelit akan lebih dipertimbangkan.

Argumentasi ini mengasumsikan bahwa dilibatkannya saluran yang dapat diterima secara gratis, yang dikenal dengan istilah FTA (free-to-air). Tayangan TV-berbayar, bagaimanapun, terlibat agak berbeda. Secara pribadi, saya selalu memikirkan bagaimana seseorang akan membayar uang untuk menonton siaran TV dan krisis keuangan saat ini akan memaksa lebih banyak orang untuk berpikir tentang hal yang sama ini. Penyedia TV-berbayar akan merasakan efek ini.

Apakah pabrikan produk satelit akan bergelut dengan hal ini? Bisakah pabrikan

memproduksi cukup produk jika bank tidak lagi memberikan kucuran dana? Jika Anda pernah membaca laporan perusahaan dalam majalah TELE-satelit edisi ini dan yang lalu, Anda akan mengetahui bahwa pabrikan dewasa ini menjalankan operasi yang sangat dinamis dan dikelola oleh profesional. Perusahaan yang berbasis secara keuangan akan selalu memiliki akses untuk mendapatkan kredit dan sehingga situasi finansial saat ini tidak begitu berpengaruh terhadap perusahaan-perusahaan ini.

Apakah benar-benar begitu buruk? Bagi industri satelit, sebenarnya tidak terlihat begitu. Di satu sisi, kami sangat gembira menyambut kehadiran kelompok baru pemirsa TV satelit FTA: yang bisa terdiri dari manager bank dari Wall Street di New York dan Canary Wharf di London. Setelah harus menjual mobil Ferrarinya dan mobil Porsche keduanya, serta membatalkan layanan TV-berbayarnya, mereka sekarang memerlukan receiver satelit HD-PVR yang baru untuk TV layar-datar berukuran besar yang masih tergantung di dinding ruang tengah. Para mantan manager keuangan ini tentu saja sekarang memiliki cukup waktu untuk menonton TV.

**Salam,
Alexander Wiese**

N.B.: Stasiun radio favorit saya untuk bulan ini: NRJ di ASTRA 19,2E (12.207V) dengan lagu-lagu baru terus-menerus dari Perancis. Pilihan musiknya minimum dan lagu-lagunya terus diputar ulang namun saat ini masih menyenangkan.

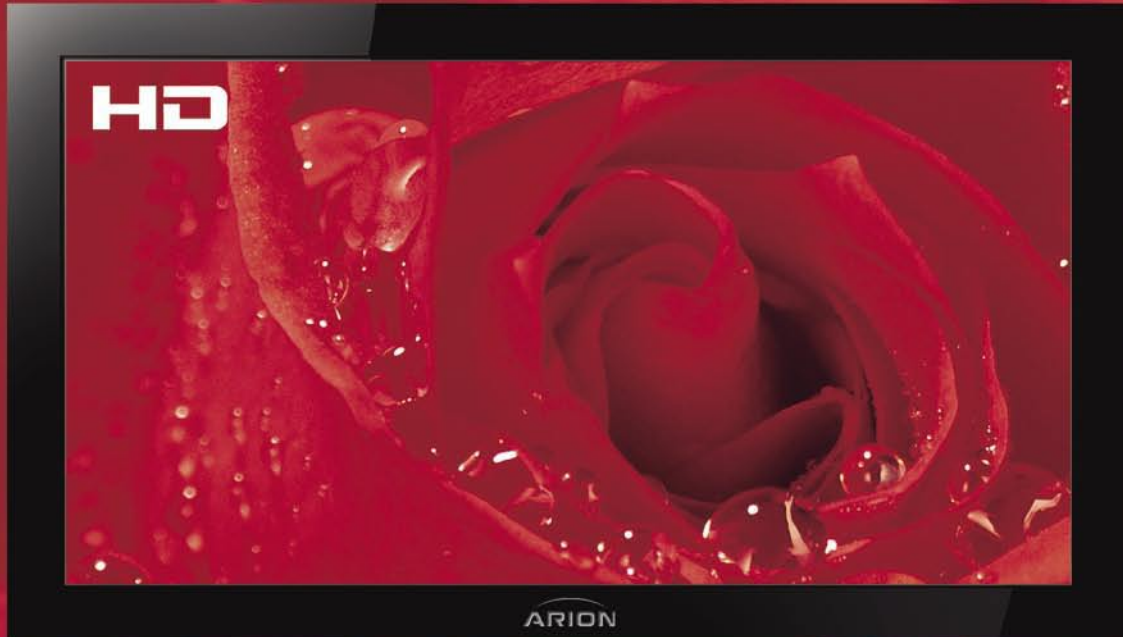
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Who makes HD quality?



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

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

High Definition Digital Satellite Receiver ARION AF-4000HDCI



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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



Edited by
Branislav Pekic

EUROPE

EUROPE

EU CHANGES CABLE RULES

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

ASTRA 1M TO BE LAUNCHED IN NOVEMBER

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

IPTV SUBSCRIPTIONS TRIPLE IN WESTERN EUROPE

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

OVERON SELECTS TANDBERG FOR HDTV SOLUTION

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

TWO EUTELSAT SATELLITES IN ORBIT FROM NOVEMBER

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

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

AUSTRIA

ORF SELECTS NTT ELECTRONICS FOR HDTV EQUIPMENT

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

CZECH REPUBLIC

QUICKMEDIA TO LAUNCH HDTV ON IPTV

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

SMART TO DELIVER IPTV IN BRNO

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

DENMARK

TILGIN, NORDIJA PROVIDE HDTV FOR TRE-FOR

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

ESTONIA

AMINO SIGNS STB DEAL WITH ELION

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

FRANCE

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

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

GERMANY

DEUTSCHE TELEKOM AND MOTOROLA COLLABORATE ON IPTV

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

MEDIA BROADCAST AIRS FOOTBALL IN HD

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

IRELAND

MAGNET TEAMS UP WITH INUK FOR IPTV SERVICE

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

ITALY

TELECOM ITALIA SECURES ALICE TV WITH NDS VIDEOGUARD

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

LITHUANIA

ALPHA LINKS WITH WIDEVINE FOR KAVA IPTV SERVICE

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

IBM AND WIDEVINE HELP SKYNET TO PROVIDE PREMIUM CONTENT

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

PORTUGAL

SONAECOM AND ERICSSON TRIAL IPTV MIDDLEWARE

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

PORTUGAL TELECOM WITH 200.000 IPTV SUBSCRIBERS

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

RUSSIA

COMSTAR EXPANDS IPTV WITH TANDBERG

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

BCC SELECTS BITBAND IP VIDEO DELIVERY SOLUTION

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

COMSTAR WITH 146.000 IPTV SUBSCRIBERS

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

RUSSIAN HDTV PLATFORM SELECTS EUROBIRD 9 SATELLITE

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

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

SCANDINAVIA

TANDBERG MPEG-4 AVC COMPRESSION FOR TELENOR

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

TELIASONERA SELECTS MEDIAFLEX SMART WI-FI SYSTEM

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

SERBIA

TELEKOM SRBIJA LAUNCHED IPTV IN OCTOBER

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

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

SWITZERLAND

NETSTREAM SELECTS ENTONE SOLUTION FOR IPTV SERVICE

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

TURKEY

TURKEY TO LAUNCH TWO NEW SATELLITES IN 6 YEARS

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

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

UNITED KINGDOM

BRITISH TELECOM CRITICAL OVER KANGAROO IPTV

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

SETANTA OFFERS IPTV SERVICE TO UNIVERSITY STUDENTS

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

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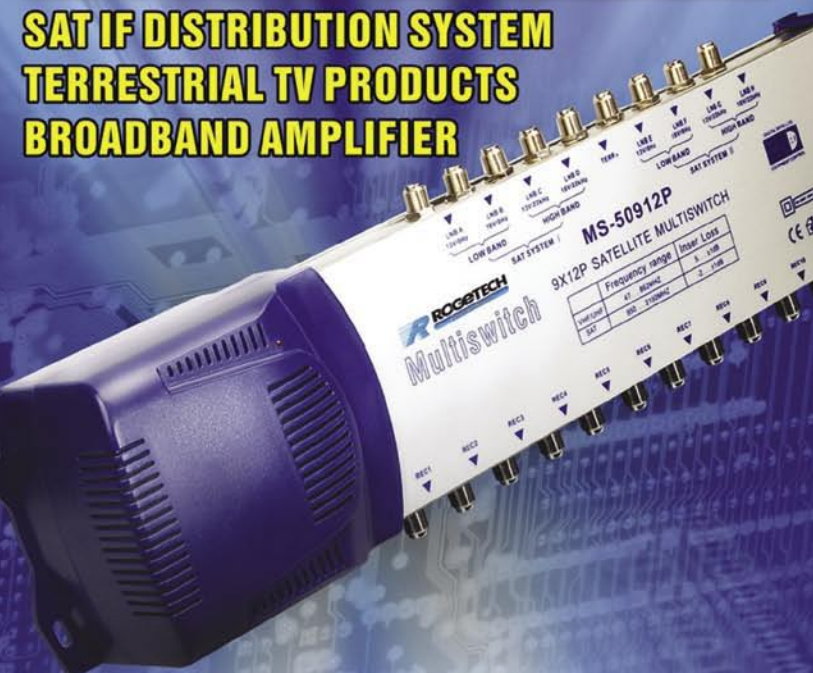
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BRITISH TELECOM TO PROVIDE HD CONTENT

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

ORANGE TO OFFER ON DEMAND MOVIES ON IPTV SERVICE

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

SKY ADDS NEW CHANNELS

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

NORTH AMERICA

GALAXY 19 LAUNCHES SUCCESSFULLY

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

CANADA

MTS ALLSTREAM TO USE ETI OSS

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

NIMIQU 4 SATELLITE SUCCESSFULLY LAUNCHED

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

UNITED STATES

HOTWIRE SELECTS MOTOROLA FTTH SOLUTION

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

AT&T IPTV ARRIVES TO MICHIGAN AND ARKANSAS

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

HILL COUNTRY SELECTS INFINITE VIDEO IPTV PLATFORM

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



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

TELUS OPTS FOR HOME PNA STANDARD FOR IPTV

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

NEULION AND NTOUCHTV OFFER ROMANIAN TV ON IPTV

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

AT&T BOOSTS MPEG-4 COMPRESSION

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

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

AT&T DROPS DISH NETWORK FOR DIRECTV

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

VERIZON FIOS TO ADD SIX HD NETWORKS

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

RCN INCREASES HD CHANNELS IN WASHINGTON D.C.

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

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

MASN TO LAUNCH HD CHANNEL IN 2009

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

DIRECTV EXPANDS HD CHANNEL OFFER WITH HARMONIC

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

DIRECTV AND TIVO TO OFFER NEW HD DVR

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

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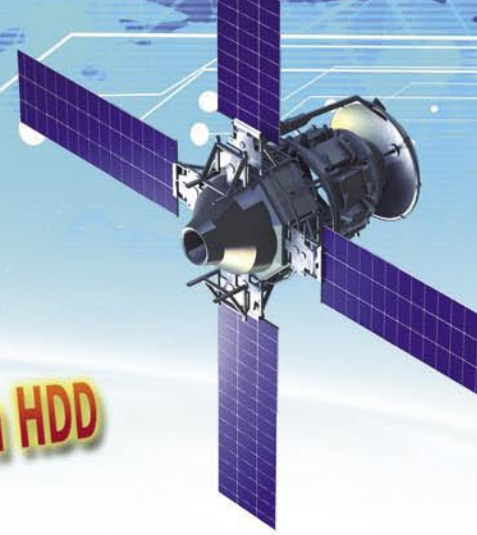


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CANBY TELECOM OFFERS 36 HDTV CHANNELS

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

LATIN AMERICA

VOOM HD TO LAUNCH IN CENTRAL AND SOUTH AMERICA

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

IPTV REVENUES TO EXCEED US\$ 3.9 BILLION BY 2013

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

COLOMBIA

ETB TO LAUNCH IPTV SERVICE IN 2009

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

MEXICO

MAXCOM PREPARES EXPANSION OF IPTV SERVICE

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

ASIA & PACIFIC

TAIWAN AND SINGAPORE TO LAUNCH SATELLITE

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

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

IPTV SUBSCRIBERS TO REACH 8.7 MILLION IN 2012

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

MEASAT SELECTED AS BEST REGIONAL SATELLITE OPERATOR

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

AUSTRALIA

AUSTAR AND THOMSON TO PROVIDE HDTV

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

CHINA

BAIDU EXPANDS IPTV SERVICES

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

INDIA

IPTV OPERATORS TO CARRY 8 DD CHANNELS

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

UTSTARCOM GETS AKSH OPTIFIBRE DEAL

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

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

BSNL IPTV SERVICE TO COVER 100 CITIES

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

HFCL INFOTEL TO ROLLOUT IPTV IN PUNJAB

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

GOVERNMENT ISSUES IPTV GUIDELINES

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

BIG TV SELECTS THOMSON HEADEND

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

INDONESIA

PT TELEKOM TO BID FOR NEW SATELLITE

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

JAPAN

SKY PERFECT LAUNCHES HDTV CHANNELS

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

JORDAN

ORANGE LAUNCHES IPTV WITH INTRACOM TELECOM

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

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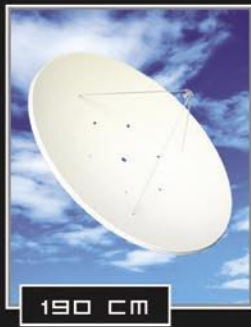
240 CM



220 CM



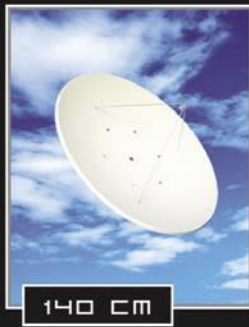
210 CM



190 CM



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

KAZAKHSTAN

NETRIS AND SECUREMEDIA PARTNER ON IPTV PROJECT

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

PAKISTAN

PTCL LAUNCHES IPTV SERVICE

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

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

PAKISTAN TO LAUNCH SATELLITE BY 2011

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

SOUTH KOREA

SOUTH KOREA TO LAUNCH NEW SATELLITE IN 2010

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

SK BROADBAND LAUNCHES IPTV SERVICE

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

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

KT LAUNCHES IPTV SERVICE

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

3 IPTV SERVICE PROVIDERS SELECTED

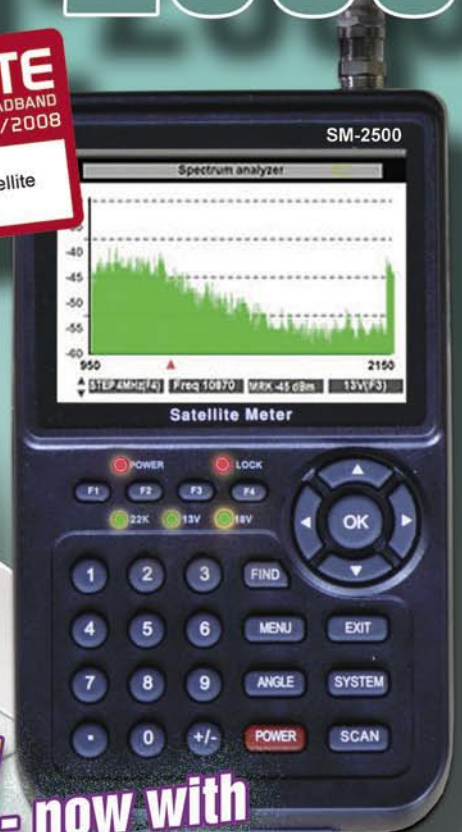
KT, Hanaro Telecom and LG Dacom were selected as the country's three IPTV service providers. The decision came after the Korea Communications Commission assessed four applicants including the three companies and Open IPTV in a general meeting. Launched by Daum Communications, Open IPTV was eliminated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

HANARO TELECOM SELECTS CORRIGENT INFRASTRUCTURE

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

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

SRI LANKA

SRI LANKA TELECOM OPTS FO OPTIBASE ENCODERS FOR IPTV SERVICE

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

TAIWAN

CHUNGHWA TELECOM REVISES IPTV TARGET

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

THAILAND

TRUEIPTV RELAUNCHES OPERATIONS

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

THE PHILIPPINES

ECI TELECOM PROVIDES BROADBAND ACCESS TO PLDT

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

WORLD

AMINO SIGNS GLOBAL DEAL WITH ERICSSON FOR IPTV INTEGRATION

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



SONICVIEW



SV-360 Premier



SV-360 Elite



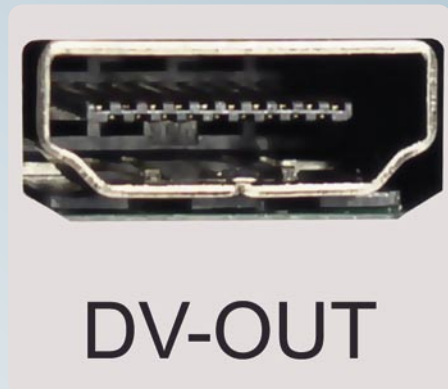
SV-HD8000

The Features of a New Satellite Receiver

Heinz Koppitz

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

HDMI with 1080 Lines



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

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

Alphanumeric Display on the Receiver



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

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

USB Connection for Data Transfer

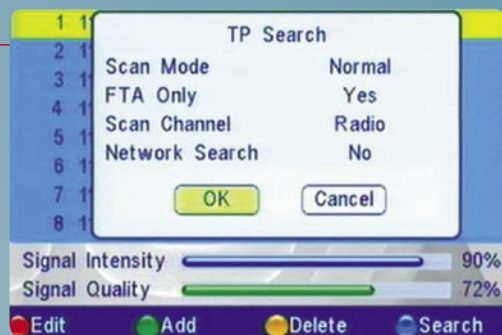
In earlier receiver models it was the serial interface that allowed communication between the receiver and a PC. Today it's the USB interface that takes care of this task. But USB lets you do much more: you



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

User-Settable Blind Scan

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



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

Easy Channel Organization

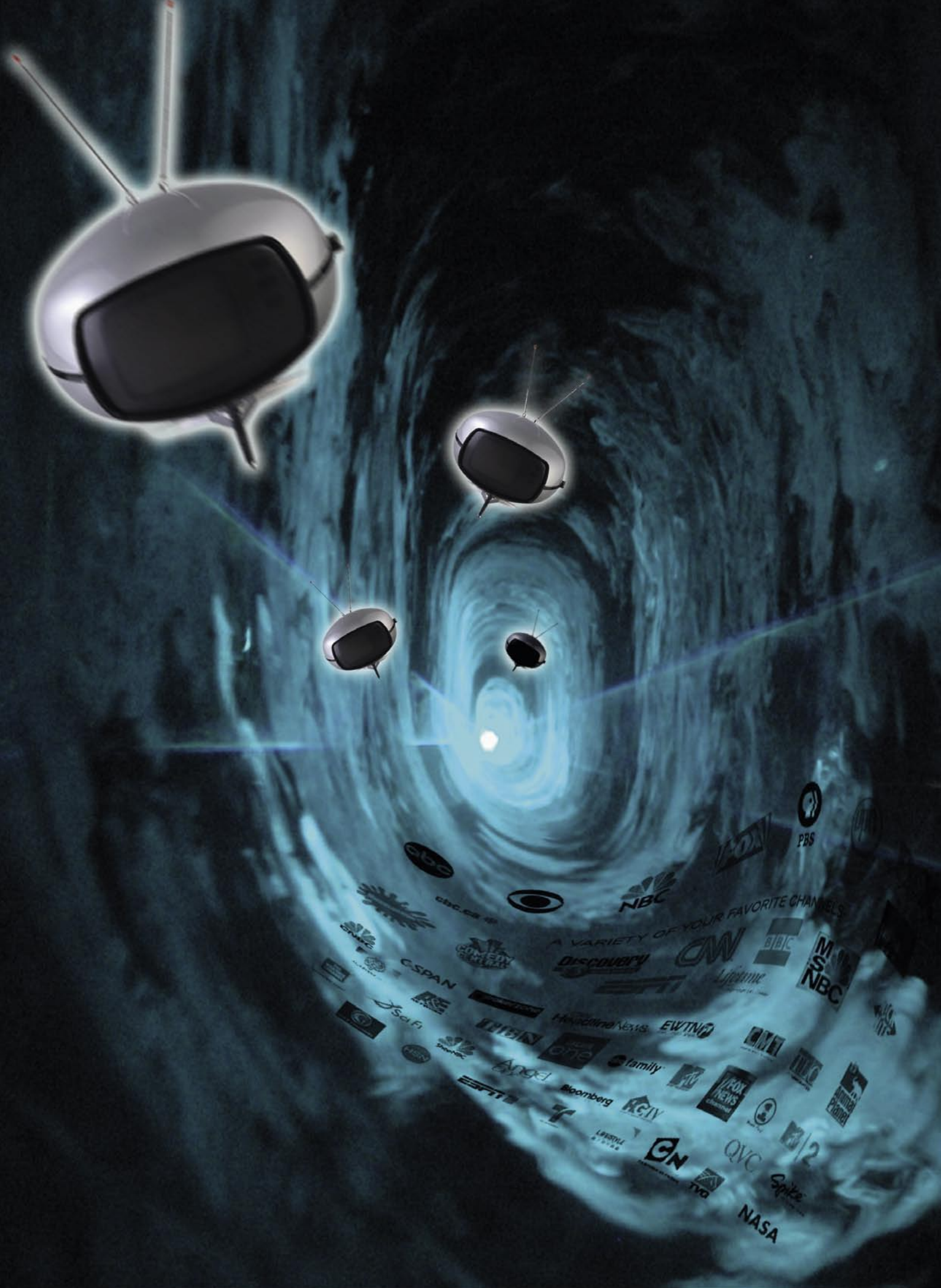


Where in the past it was more difficult to arrange the TV and radio channels in a more logical order for quicker channel access, today multiple Favorites lists make this much easier. But if you prefer to select a channel directly from the main channel list, you will also find easy-to-use editing functions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

Environmental Friendliness

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

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



Jiuzhou DTS6600 PVR HDTV Untuk sepanjang masa

Bagi Jiuzhou berjalan tanpa mengatakan bahwa mereka menyediakan segmen pasar kini dan mendatang dengan inovasi. Inilah alasan mengapa kami begitu menginginkan receiver Jiuzhou HDTV DVB-S/2 PVR yang belum diluncurkan. Akhirnya, HDTV dengan kombinasi fungsi PVR melangkah dengan jelas ke masa depan. Dengan model DTS 6600 Jiuzhou berharap ingin menjadi pemain yang signifikan di masa depan.

Receiver ini hadir agak polos namun dengan kotak berwarna perak yang enak dilihat. Panel depan mendukung tampilan 4-digit segmen yang mudah dibaca, disertai dua LED untuk menunjukkan mode operasi receiver tersebut.

Tersembunyi di balik flap terdapat tujuh tombol untuk mengoperasikan DTS 6600 tanpa kendali jarak jauh, serta dua rongga CI yang menerima seluruh modul standar seperti Irdeco, Seca, Viaccess, Conax, Nagravision dan sebagainya. Hanya tombol standby yang dapat dijangkau tanpa membuka flap.



Panel belakang memberikan sejumlah koneksi yang lengkap seperti masukan satelit dan keluaran loop-through, antarmuka HDMI untuk transmisi video dan audio digital, tiga colokan untuk YUV serta tiga tambahan colokan RCA untuk audio stereo dan video komposit serta – khusus untuk pasar Eropa – dua konektor scart.

Keluaran audio digital memastikan sistem bioskop rumah akan disuguhi audio yang sejernih kristal dan terminal USB 2.0 tersedia untuk menghubungkan media penyimpanan eksternal untuk menggunakan fungsi PVR. Kesan keseluruhan yang sempurna dilengkapi dengan saklar catu daya utama.

Kendali jarak jauh yang disertakan enak digenggam, tombol-tombolnya mudah diraih, diberi label dengan jelas dan memberikan umpan-balik yang leluasa ketika ditekan.

Buku petunjuk memberikan struktur yang jelas, ilustrasi fitur di mana diperlukan dan menjawab semua pertanyaan yang mungkin muncul ketika menggunakan receiver. Secara keseluruhan, receiver ini menciptakan kesan pertama yang baik dalam hal hasil karya dan kualitas perangkat kerasnya, meskipun ada yang kurang pada rancangannya yang konservatif.

Penggunaan Sehari-hari

Receiver Jiuzhou DTS 6600 menawarkan pedoman instalasi dan model uji kami telah

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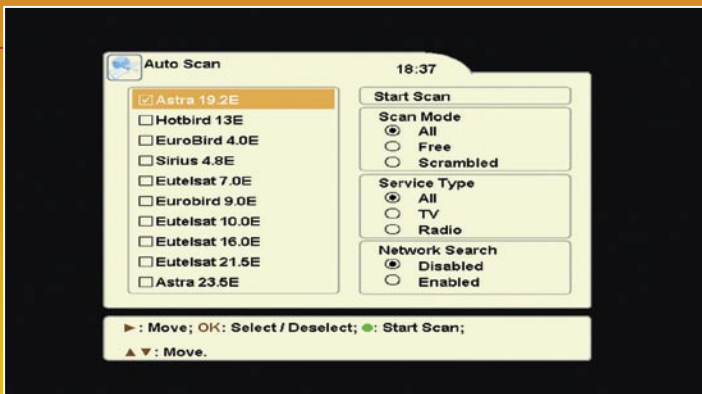
Available online starting from 28 November 2008

terprogram dengan daftar 122 saluran yang terutama berbahasa Jerman. Catatan positif yang dapat kami nyatakan adalah bahwa seluruh saluran HD yang tersedia dari negara Jerman dan Inggris yang dipancarkan via ASTRA 19,2° BT dan ASTRA2 28,2° BT telah dimasukkan ke dalam daftar tersebut.

Untuk mengatur receiver tersebut agar sesuai dengan keinginan pribadi, yang

perlu dilakukan adalah menekan tombol MENU untuk memunculkan menu berbagai pilihan dengan struktur yang jelas dan ditata dengan baik. Menu utama dibagi ke dalam lima kelompok, masing-masing dengan sejumlah sub-kelompok. Untuk sementara ini receiver terbaru dari Jiuzhou belum mendunia karena OSD hanya tersedia dalam bahasa Jerman, Inggris, Belanda dan Perancis. Anda dapat diyakinkan, bagaimanapun, bahwa daftar ini akan diperluas oleh pabrikan dalam pembaruan peranti lunak selanjutnya.





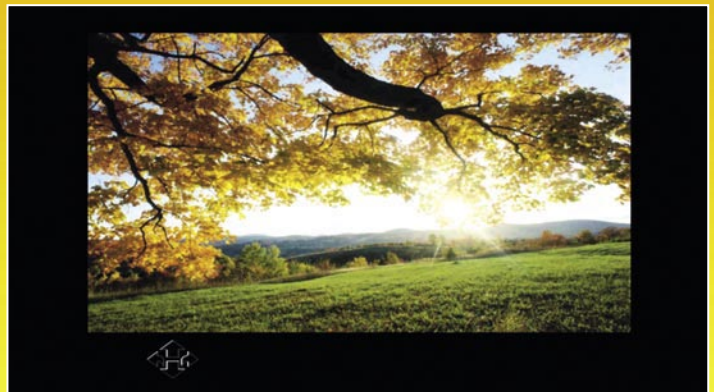
Pencarian otomatis



Info bar



EPG



JPEG Viewer

Dalam hal untuk dapat mengizinkan penggunaan penuh pada hubungan HDMI, receiver ini mendukung keluaran video dalam 576p, 720p atau 1080i. Satu-satunya fitur yang hilang adalah pengalihan otomatis, namun kami mengasumsikan bahwa pabrikan akan menambahkan fitur ini di masa mendatang.

Jika Anda menghubungkan TV CRT biasa ke receiver ini maka Andamungkinakan memutuskan untuk menggunakan mode keluaran video RGB. CVBS juga tersedia dan jika TV Anda memiliki masukan yang bersesuaian, Anda bisa

Receiver terbaru dari Jiuzhou ini mengambil waktu yang tepat langsung dari sinyal satelit, atau Anda bisa memutuskan untuk mengatur waktu secara manual, jika diinginkan.

Apa yang kami sukai: Anda bisa mengatur receiver untuk menunjukkan waktu saat ini daripada menampilkan nomor saluran, meskipun ketika sedang dinyalakan. Sebelum Anda benar-benar bisa menggunakan seluruh fitur pada DTS 6600, maka terlebih dahulu harus diatur untuk bekerja dengan sistem penerimaan Anda.

Daftar satelit yang ada terdiri dari 56 posisi satelit Eropa yang telah terprogram, dan kami menemukan bahwa bahkan data transponder baru saja diperbarui karena data tersebut sangat terkini. Dengan editor satelit dan transponder yang sangat mudah digunakan, maka masukan satelit dan transponder mudah untuk ditambah, dihapus atau diubah.

Selain dapat menerima sinyal Ku band receiver Jiuzhou HDTV juga bisa digunakan untuk sinyal C band, dan dengan adanya data LOF yang dapat

dipilih, bahkan LNB yang tidak biasa dapat bekerja dengan receiver ini. Sejumlah pilihan untuk beralih antar-band dan polarisasi membuat receiver ini lebih fleksibel.

Sekarang setelah pengaturan dasar telah diselesaikan, memori 5000-saluran perlu diisi. Untuk menuntaskan ini, dapat dipilih pencarian otomatis atau manual. Di sini kita berada pada kejutan lain yang menyenangkan: menu pencarian saluran sangat jelas dan mudah digunakan. Beberapa satelit yang tersedia



menggunakan keluaran YUV.

Tentu saja, fitur dasar seperti pilihan rasio aspek 16:9 dan 4:3 semuanya diterapkan, terdapat keluaran audio digital optikal yang dapat menyediakan sinyal PCM atau Dolby Digital (bitstream).

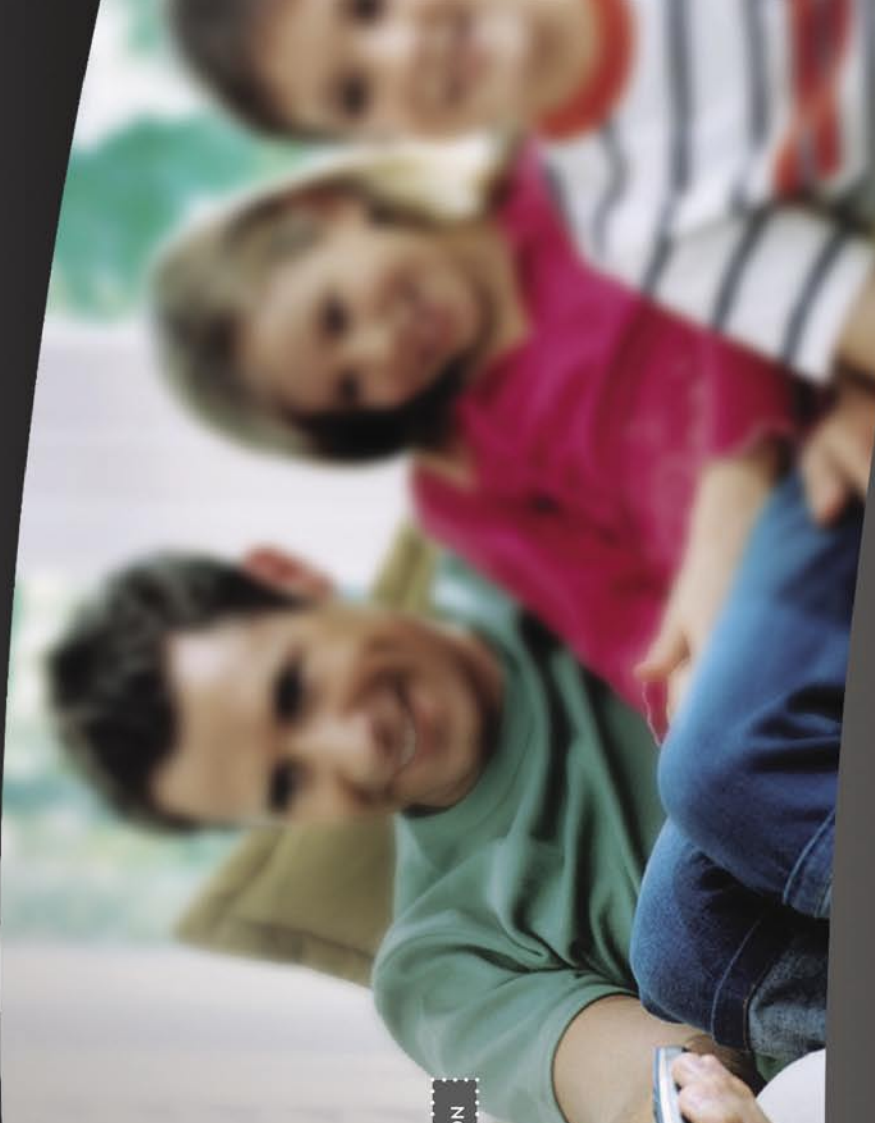
Terdapat protokol DiSEqC 1.0 untuk empat satelit, 1.1 untuk hingga 16 satelit, serta 1.2 dan 1.3 (USALS) untuk antena bermotor.

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dapat dipilih untuk pencarian otomatis, yang selanjutnya dipindai satu per satu. Tentu saja dapat ditentukan pencarian hanya FTA, diacak atau seluruh saluran. Sebagai tambahan, Anda bisa meminta receiver untuk mendapatkan saluran TV, stasiun radio atau keduanya.

Jika diperlukan, Anda juga bisa mengaktifkan pemindaian jaringan sehingga setiap transponder TV-berbayar yang belum terprogram akan dideteksi oleh receiver. Untuk satelit uji kami dengan 100 transponder lebih memerlukan waktu sekitar sepuluh menit, yang berarti sedikit agak lambat.

Biasanya, pemindaian manual memberikan pilihan yang lebih luas dan Anda bisa memasukkan secara manual frekuensi, simbol rate, polarisasi, PID, modulasi (dengan receiver mendukung QPSK dalam DVB-S dan QPSK serta 8PSK dalam DVB-S2) serta FEC.

Setelah pengujian kami mencari beberapa satelit, kami

mendapatkan ribuan saluran yang berguna, yang membuka jalan kesenangan bagi pencinta tontonan. Jadi yang perlu dilakukan selanjutnya adalah menyusun dan merapikan daftar saluran tersebut.

Untungnya, receiver DTS 6600 menawarkan sejumlah pilihan untuk mencapai hal ini. Masing-masing saluran dapat dihapus, dipindahkan, diganti namanya atau dilindungi dengan kode PIN untuk mencegah anak-anak menonton siaran yang tidak sesuai. Sebanyak delapan daftar favorit tersedia untuk diisi dengan saluran yang benar-benar ingin ditonton secara rutin.

Selama pengujian kami dalam mengubah susunan saluran dan daftar favorit dapat berjalan lancar tanpa masalah. Sekali lagi di sini pabrikan hadir dengan konsep mudah-digunakan yang bahkan akan segera dimengerti.

Sekarang daftar saluran telah diisi dan disusun dengan rapi, kita dapat keluar

dari menu utama dengan menekan - dapat ditebak! - tombol KELUAR. Hal ini akan memerintahkan receiver untuk beralih ke saluran pertama dalam daftar. Tombol OK akan memunculkan daftar saluran yang berisi seluruh saluran yang tertata dengan rapi dan jelas. Menggunakan tombol FAV dan SAT pada kendali jarak jauh Anda bisa memunculkan daftar saluran dari satelit yang berbeda atau salah satu daftar favorit.

Penyusunan daftar saluran dapat dilakukan dengan menekan tombol Zoom di kendali jarak jauh.

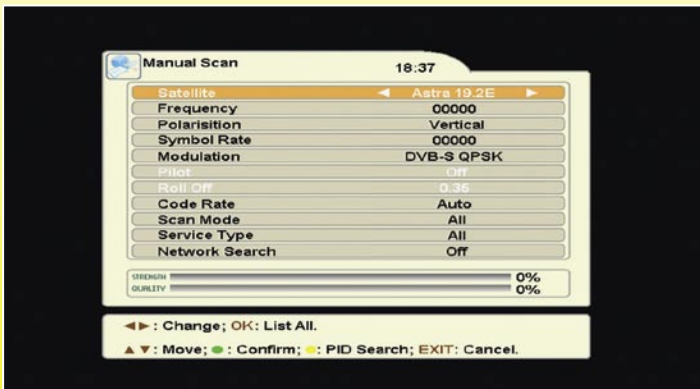
Receiver Jiuzhou yang baru ini cukup cepat dalam perpindahan saluran, yang juga cepat untuk perpindahan antar saluran SD dan HD. Apa yang benar-benar kami hargai dalam pengujian adalah kualitas video via HDMI pada layar plasma 42-inch dan TV LCD layar datar 40-inch. Tersedia segala yang diinginkan.

Kapan saja receiver beralih

ke saluran baru, akan muncul info bar dengan rincian yang berhubungan dengan siaran yang sedang ditonton dan yang akan datang disertai ikon untuk sistem acak, terjemahan, audio DD dsb. Juga ditampilkan kualitas dan kekuatan sinyal serta satelit dan frekuensi saluran yang sedang ditonton.

Kendali jarak jauh hadir dengan tombol-tombol khusus untuk memilih track audio dan terjemahan (jika diperlukan). Dalam hal TV set Anda tidak terdapat dekoder teletext, Anda tetap dapat menggunakan dekoder yang terintegrasi dalam peranti lunak receiver Jiuzhou. Sedangkan DTS 6600 masih belum menawarkan pengalihan resolusi keluaran secara otomatis, dapat mudah dilakukan dengan menekan tombol Fungsi pada kendali jarak jauh untuk segera mengubah di antara pilihan yang tersedia.

Hal ini sangat ringkas saat saluran HDTV dipancarkan dalam 1080i (dan dapat ditonton dengan bagus jika resolusi ini



Pencarian manual



Pemutaran rekaman HDTV



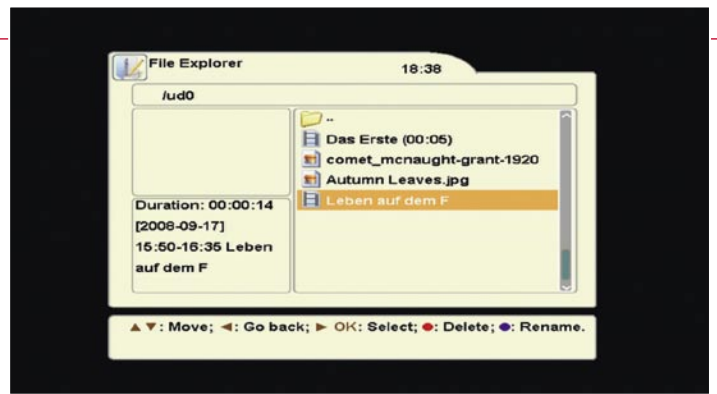
juga diatur untuk receiver) dan kemudian Anda beralih ke saluran SDTV, apakah resolusi 720p atau 576p yang harus dipilih untuk tampilan video terbaik.

Menu EPG selalu menampilkan informasi untuk enam saluran sekaligus. Dengan bantuan tombol empat warna Anda bisa mengubah tanggal atau melompat ke waktu sekarang. Tentu saja info bar menyediakan informasi siaran yang sedang ditayangkan dan siaran yang akan datang. Jika Anda ingin memastikan untuk tidak ketinggalan acara tertentu, Anda bisa mengatur hingga delapan pengatur waktu. Hal ini dapat diatur secara manual.

Sama seperti seluruh receiver

yang kami uji, receiver Jiuzhou DTS 6600 akhirnya harus membuktikan kelebihanannya. Apa yang kami sukai dalam hal ini adalah receiver ini memberikan hasil yang berguna meskipun sinyal yang didapat sangat lemah, seperti transmisi horizontal dari NILESAT 7° BB atau ASTRA 2D 28,2° BT di lokasi uji kami.

SCPC merupakan cerita yang berbeda, walaupun, kami tidak bisa memverifikasi klaim pabrikan pada 1 hingga 45 Ms/s. Bahkan kami menemukan masalah ketika mencoba untuk menerima berbagai transponder dari TURKSAT 42° BT dengan simbol rate di atas 2 Ms/s. Pada saat tuner dapat mengunci sinyal, penerimaan menjadi sangat konsisten.



Tinjauan hasil rekaman dan gambar!



Editor untuk satelit dan transponder!



Opini Ahli

+

Jiuzhou DTS 6600 adalah receiver DVB-S2 HDTV yang mudah digunakan, yang tersedia segala sesuatu dengan berbagai fitur. Sangat sesuai untuk penggunaan sehari-hari dan akan menyenangkan pemula maupun yang berpengalaman.



Thomas Haring
TELE-satellite
Test Center
Austria

-

Produk yang kami terima untuk diuji adalah model pra-rilis, yang berarti bahwa beberapa bagian belum berfungsi sepenuhnya. SCPC adalah bagian yang ingin kami tinjau, serta lamanya waktu untuk pencarian saluran, serta tidak adanya fitur timeshift. Kami berasumsi, bagaimanapun, bahwa pabrikan harus menyelesaikan masalah ini pada saat receiver diluncurkan ke pasaran.

Akhirnya, kami ingin menyampaikan salah satu fitur utama dari receiver ini, antarmuka USB 2.0. dapat digunakan untuk menghubungkan hard disk eksternal atau memori USB, yang mengubah DTS 6600 menjadi receiver PVR. Fitur ini bekerja tanpa kendala dalam pengujian kami, dan perekaman pada HD dan SD dapat diputar kembali dengan sempurna, termasuk time shifting.

Pada kendali jarak jauh tidak terdapat tombol PVR, yang berarti bahwa tombol ZOOM dan tombol berwarna digunakan untuk perintah PVR.

Program FileExplorer dapat diakses melalui menu utama dan digunakan untuk menampilkan data yang terdapat dalam media penyimpan eksternal. Receiver DTS 6600 tidak hanya menampilkan daftar seluruh hasil rekaman yang ada, tetapi juga bisa memunculkan daftar dan menampilkan gambar JPEG

di layar TV, yang merupakan fitur yang sangat ringkas dan menjadi pengganti yang handal untuk proyektor slide yang sudah ketinggalan zaman.

Selain daripada fungsi PVR dan penampil JPEG, antarmuka USB juga digunakan untuk memperbarui peranti lunak receiver, yang terlebih dahulu diunduh dari situs Jiuzhou ke komputer dan selanjutnya di-install ke receiver dengan bantuan memori USB.

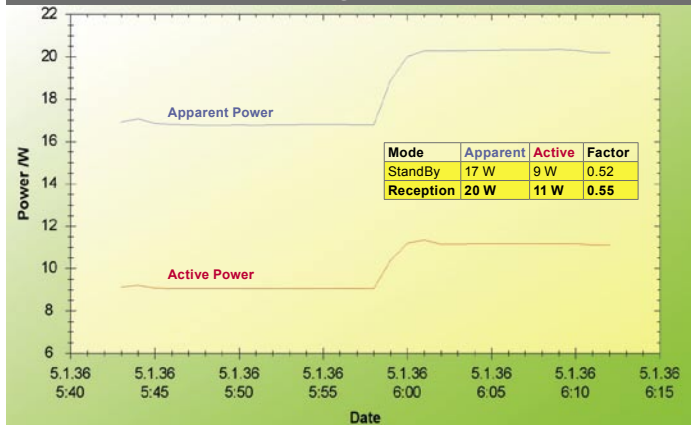
Jika Anda menginginkan cara yang lebih mudah, maka Anda bisa mengunduh peranti lunak baru langsung dari satelit karena fitur ini akan diterapkan pada produk final.

Kesimpulannya, receiver baru Jiuzhou DTS 6600 adalah receiver HDTV dengan kemampuan besar. Yang mencakup sejumlah ide bermanfaat yang dikombinasi menjadi fitur yang lengkap dan mudah digunakan.

TECHNIC DATA

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

ENERGY DIAGRAM



Receiver berada di posisi standby untuk 15 menit pertama, serta 15 menit berikutnya dengan penerimaan aktif dan perpindahan saluran. Pemutaran PVR, dsb.



Celebrating 50 years-Jiuzhou!

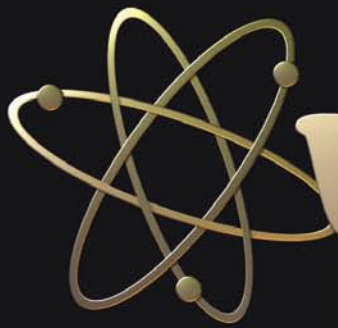
50 tahun Jiuzhou!

Pada tanggal 16 November 2008 Jiuzhou secara resmi merayakan ulang tahunnya yang ke 50. Perusahaan BUMN ini dimulai pada tahun 1958 dan mengkhususkan

diri pada sistem televisi digital, yang mencakup LED, produk RFID, Sistem Jaringan Pitalebar, kabel optik dan coax, dan tentu saja receiver satelit, yang sebagian besar diekspor. Jiuzhou menjadi salah satu 100 perusahaan terkemuka di China di bidang informasi elektronik. Lebih jauh, Jiuzhou menjadi salah satu dari 500 perusahaan paling sukses di China dan dengan turn-over mencapai USD 1 juta pada tahun 2008, Jiuzhou juga menjadi bagian dari 1.000 perusahaan terbesar di

China. Untuk tahun 2009, ambisi Jiuzhou bahkan ingin mencapai target turn-over USD 1,5 juta. Tujuan Jiuzhou adalah menjadi pemimpin dalam perusahaan teratas di China dan bersama perusahaan kelas dunia dalam teknologi TV digital.

Laporan yang lebih rinci tentang Jiuzhou telah dipublikasikan oleh TELE-satellite dalam edisi 02-03/2008, yang tersedia untuk diunduh dari situs www.TELE-satellite.com



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INDONESIA

OPENSAT XT-9500 HD

Dirancang untuk Definisi Tinggi

Saya termasuk orang yang lebih menghendaki fungsi yang lebih estetik – kecantikan hanyalah sedalam kulit. Tidak ada maknanya jika sesuatu terlihat bagus jika tidak bisa melakukan tugasnya. Namun saya harus mengakui, segera setelah kotaknya dibuka, saya terkesan oleh bentuk minimalis yang bagus dari OPENSAT XT-9500 HD. Receiver berwarna hitam klasik ini dari distributor ABC BIZNIZ di Slovakia memiliki fitur penerimaan HD dan pilihan koneksi yang bagus dengan harga yang atraktif, dapatkah kita memiliki kedua penampilan dan material dalam satu paket tunggal?

Panel depan terdapat tombol on/standby, dan sejumlah tombol vertikal untuk mengendalikan saluran dan volume. Tombol-tombol ini berwarna merah jika unit dinyalakan, dan cukup terang juga – hampir terlalu terang ketika menonton TV di ruangan gelap. Tampilan teks menunjukkan nama dan nomor saluran yang sedang diterima, atau jam pada saat standby. Pada mode standby, cahaya tombol tetap menyala, digabungkan dengan warna merah pada tombol on/standby.

Di balik flap di panel depan dapat ditemukan dua rongga CI untuk modul TV-berbayar dan bahkan pembaca kartu Smart. Juga di balik flap terdapat colokan

USB, yang digunakan untuk pembaruan peranti lunak receiver dari stik memori.

Pengaturan Awal

Terdapat banyak pilihan untuk penghubungan kabel. Dua colokan Scart tersedia untuk TV dan VCR. Untuk kegunaan perekaman, keluaran Scart VCR selalu dalam definisi standar, sehingga bahkan saluran HD pun dapat direkam dengan mudah menjadi DVD atau pita video jika diperlukan. Scart TV dapat diatur untuk menggunakan video komponen, sehingga jika TV Anda bisa menangani sinyal seperti ini dan hanya tersedia hubungan Scart, Anda masih



bisa mendapatkan resolusi HD. HDMI, hubungan standar untuk HD juga tersedia beserta colokan RCA untuk video komponen. Keluaran video komposit juga tersedia, namun tidak tersedia di dunia modern untuk teman lama terusan antena UHF.

Saya agak tidak biasa memiliki TV CRT teknologi lama yang bisa menangani sinyal HD melalui macukan komponen. Setelah beberapa menit menggaruk kepala, saya sedang menonton BBC HD dari ASTRA 2.

Tipe hubungan dapat dialihkan di antara RGB, Komposit, atau Komponen di dalam menu, tombol khusus di kendali jarak jauh mengatur resolusi layar. Resolusi yang tersedia berada di rentang 480p hingga 1080i. Hal ini memberikan penggunaan tambahan bagi Scart VCR yang permanen di definisi standar, dan hal ini mengobati kebingungan awal saya. Anda bisa menggunakan ini sebagai cadangan ketika sedang

mencari resolusi yang tepat untuk TV Anda.

Jika Anda berakhir dengan gambar yang diacak pada resolusi yang tidak didukung oleh TV Anda, seperti yang terjadi pada saya, Anda bisa beralih ke Scart VCR dan masih bisa melihat menu. Setelah saya menemukannya pada 1080i, saya mendapatkan gambar HD yang sempurna dan bisa mengucapkan selamat tinggal pada hubungan Scart VCR sementara.

Kualitas gambar HD, seperti yang diharapkan, sempurna. Setiap hari biasanya saya menonton siaran definisi standar menggunakan receiver Sky+, dan biasanya saya cukup bangga dengan kualitas gambar dari hubungan Scart RGB dengan kabel berkualitas bagus. Peningkatan kualitas ini dan HD yang disalurkan menggunakan komponen adalah sangat menakjubkan, dan membuat tayangan yang biasa saya tonton terlihat jelek jika dibandingkan.

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| Swedish | Svenska | www.TELE-satellite.com/TELE-satellite-0901/sve/opensat.pdf |
| Turkish | Türkçe | www.TELE-satellite.com/TELE-satellite-0901/tur/opensat.pdf |

Available online starting from 28 November 2008

Sedihnya, kita masih berada di awal era HD sehingga terdapat sedikit saluran FTA yang bisa dipilih. Kita masih bisa mendapatkan keuntungan, karena siaran definisi standar bisa di-upscale jika ditonton menggunakan video komponen atau HDMI. Hal ini menghasilkan peningkatan yang nyata pada kualitas gambar dan ketajaman dibandingkan Scart standar, namun tentu saja tidak sedekat kejernihan pada siaran HD yang sebenarnya.

Keluaran Audio tersedia melalui konektor RCA tradisional, atau keluaran digital optis S/PDIF.

Menu receiver jelas, sederhana, dan ditata dengan logis. Pemilihan bahasa sangat bagus, tersedia 18 bahasa. Mencakup sebagian besar bahasa utama di Eropa ditambah Arab dan Persia, dan bagi yang tinggal di Eropa Timur akan senang melihat adanya pilihan bahasa Czech, Slovakia, Slovenia dan Hungaria yang juga disertakan.



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OPENSAT XT-9500 HD
Gaya dan Material dalam
satu paket



Menu instalasi akan muncul ketika mengatur receiver untuk pertama kalinya. Daftar 51 satelit yang lengkap telah terprogram dalam receiver, dan daftar ini bisa diubah, dihapus atau ditambah jika diperlukan. Daftar transponder yang bersesuaian tampak setara lengkap dan terkini.

DiSEqC 1.2 dan USALS disertakan untuk memudahkan kendali motor DiSEqC pada pengguna multi-satelit. Switch DiSEqC juga didukung dan seluruh parameter LNB dapat diedit, sehingga sebagian besar pengaturan dapat dengan mudah dilakukan.

Pemindaian saluran juga mudah dilakukan. Seluruh transponder dapat dipindai, atau hanya satu. Pemindaian jaringan juga tersedia sehingga sangat berguna bagi satelit besar seperti

ASTRA dan HOTBIRD. Tambahan menarik adalah fungsi filter PID, memungkinkan pemindaian hanya saluran TV atau radio. Menu satelit dan transponder bekerja bersama-sama, membantu peng-edit-an jika diperlukan. Menu daftar transponder juga terdapat fungsi perubahan PID, kurang bernilai namun penting jika diperlukan untuk mengisi PID secara manual.

Pencarian keseluruhan satelit sangat cepat - pemindaian seluruh jaringan pada ASTRA 2 memerlukan waktu 16 menit untuk memindai 83 transponder. Setelah pemindaian diselesaikan, daftar saluran yang ditemukan dapat di-edit sebelum disimpan ke dalam memori receiver. Tidak terdapat fungsi blind scan, tetapi karena receiver ini dirancang untuk menonton TV standar daripada pencarian saluran yang

tidak biasa, tidak terasa adanya kehilangan.

Dengan saluran yang sudah aman tersimpan dalam memori, kita menuju ke peng-edit-an lebih lanjut terhadap daftar untuk disesuaikan dengan keinginan pribadi. Ini menjadi pengalaman yang tidak pernah menyenangkan, namun XT-9500 melakukan pekerjaan yang bagus di sini yang membuatnya lebih mudah dilakukan.

Tersedia seluruh fungsi yang diperlukan, seperti edit, sortir dan filter, dan mudah digunakan. Delapan daftar favorit dapat disusun, dan penambahan saluran ke dalam daftar favorit ini juga mudah dilakukan. Jendela kedua muncul di sebelah daftar saluran, untuk pemindahan saluran yang diinginkan. Ini juga bisa dialihkan, memungkinkan untuk penyusunan dan perubahan yang sama seperti pada daftar utama.

Penggunaan Sehari-hari

Setelah kita mengatur daftar saluran, akhirnya kita bisa duduk dan menonton siaran TV, dan menonton setiap hari dibantu oleh rancangan yang bagus di sini. Daftar saluran utama dapat disortir atau difilter berdasarkan abjad, atau menurut status FTA/diacak - dan bahkan dengan difilter menurut satu jenis sistem acak jika lebih dari satu yang digunakan - mungkin berguna

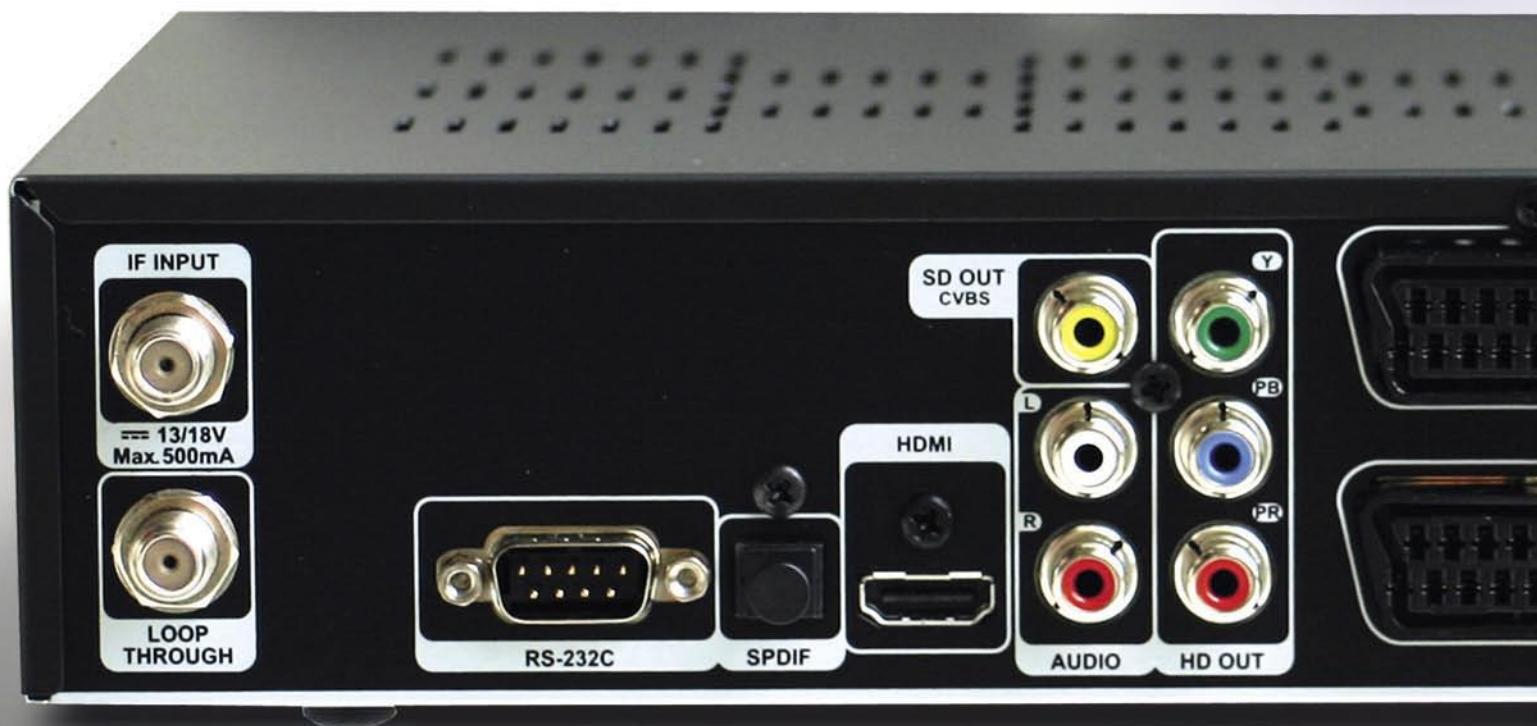
jika menggunakan lebih dari satu CAM.

Fitur terbaik dalam hal daftar saluran adalah mungkin paling jelas terlihat, yang sering dilupakan ketika merancang receiver. Receiver mengingat daftar favorit mana yang digunakan, atau jenis filter apa yang telah diterapkan, hingga Anda memutuskan untuk memilih yang lain. Hal ini sendiri membuat receiver sangat mantap digunakan dibandingkan dengan receiver lain yang pernah saya gunakan sebelumnya.

Satu kritikan yang mungkin timbul adalah bahwa saluran tetap menggunakan nomor asalnya, meskipun di dalam daftar favorit atau telah difilter. Ada keuntungannya di sini, sepanjang Anda mengingat nomor-nomor tersebut.

Secara pribadi saya mendapatkan akan lebih mudah memiliki saluran dengan nomor 1,2,3 pada daftar apapun yang dipilih, daripada nomor aslinya - khususnya setelah dipindahkan secara manual. Namun receiver ini masih lebih mudah dijelajahi daripada kebanyakan receiver lainnya.

Pada mulanya saya agak kecewa dengan tidak adanya tombol "saluran terakhir ditonton", yang selalu baik untuk kita yang ingin selalu berada di dua saluran sekaligus. Namun OPENSAT telah melengkapinya dengan sedikit kejutan kecil di sini, sesuatu



yang tidak dicantumkan di dalam buku petunjuk. Tombol "kembali" biasanya digunakan untuk keluar dari suatu menu ke tingkatan sebelumnya. Namun menekan tombol ini ketika tidak berada di menu, maka akan menampilkan daftar delapan saluran yang telah ditonton sebelumnya yang dapat dipilih. Tidak seperti solusi peralihan saluran dengan satu tombol seperti yang kami pernah lihat sebelumnya, namun tetap merupakan fitur yang sangat menarik untuk disertakan.

Bagus juga melihat adanya dukungan teleteks. Di Inggris ini, cepat kehilangan karena diambil alih oleh digital. Ketika

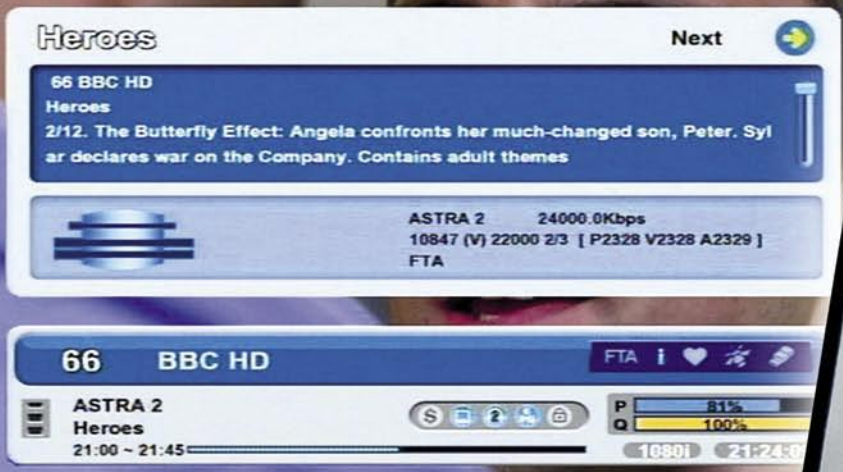
pemancar analog berakhir, begitu pula teks analog tradisional. Namun jika masih ada, XT-9500HD memberikan pilihan dua cara untuk menerima teleteks – apakah melalui dekoder yang terpasang di dalam receiver, atau di TV melalui VBI insertion.

EPG pada XT-9500HD juga jelas dan mudah digunakan, dengan catatan bahwa pembatasan data sekarang/nanti yang dipancarkan. Tombol tersedia untuk berpindah maju atau mundur hingga 24 jam, sehingga mungkin di beberapa tempat akan didapatkan informasi acara lebih lanjut, meskipun saya tidak dapat menemukan di mana pun tempat yang tersedia selama

pengujian. EPG terhubung ke pengatur waktu pada receiver, di mana pilihan 'tidur' dan 'bangun' tersedia sebagai tambahan pada fungsi biasa dalam perubahan saluran pada waktu yang telah ditentukan.

Kesimpulan

Meskipun tidak ada tambahan seperti permainan yang segera dilupakan, receiver ini melakukan tugas yang diperlukan dengan mudah dan baik. Menu ditata secara logis, tampilan menu di layar jelas dan membantu.



Kendali jarak jauh ditata dengan baik dan sesuai dengan warna hitam dan perak pada receiver. Terdapat beberapa kekurangan pada receiver ini. Mungkin fungsi peredup lampu, atau sesuatu untuk mematikan lampu di panel depan akan lebih bagus bagi penonton yang menyukai ruangan gelap tanpa gangguan.

Satu hal yang segera saya ketahui adalah kotak receiver yang menjadi panas, bahkan ketika berada dalam mode standby. Saya percaya bahwa inilah harga

yang harus kita bayar atas tenaga tambahan untuk mendapatkan gambar dalam kualitas HD di layar TV kita. Peranti lunak baru seharusnya bisa mengatasi masalah ini.

Namun sayangnya bahwa tidak banyak saluran HD FTA yang bisa ditonton pada saat ini. Namun tidak diragukan bahwa hal ini akan berubah di masa mendatang, dan jika saatnya tiba, maka saya akan sangat gembira untuk memiliki XT-9500 sebagai receiver yang menetap di ruang keluarga saya.

Opini Ahli



Tampilan dan rancangan yang menarik. Menu yang jelas, pengaturan yang mudah. Daftar favorit dan penyaringan daftar saluran yang diterapkan dengan baik.



Andy Middleton
TELE-satellite
Test Center
UK

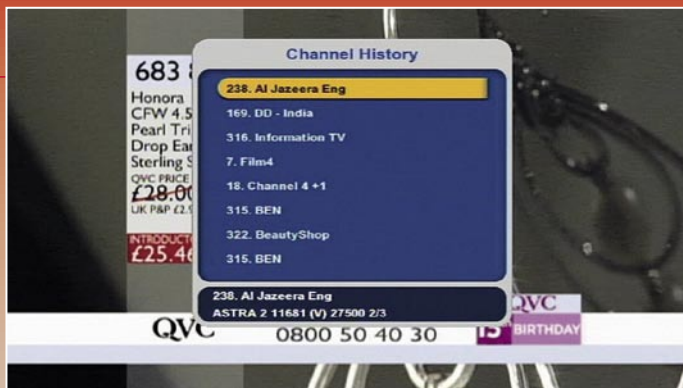
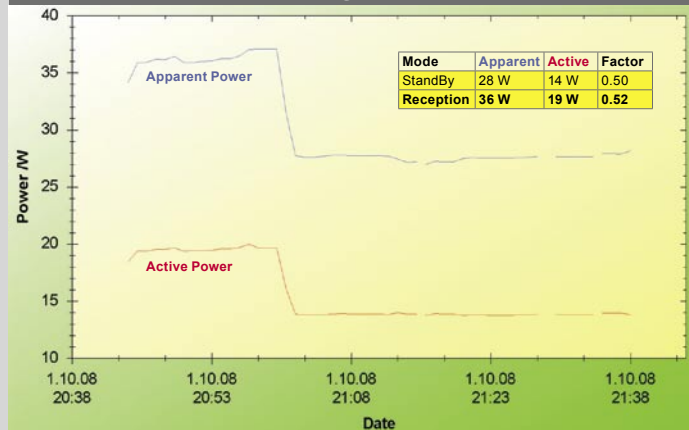


Menghasilkan panas berlebihan. Lampu panel depan yang selalu menyala terang.

TECHNIC DATA

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

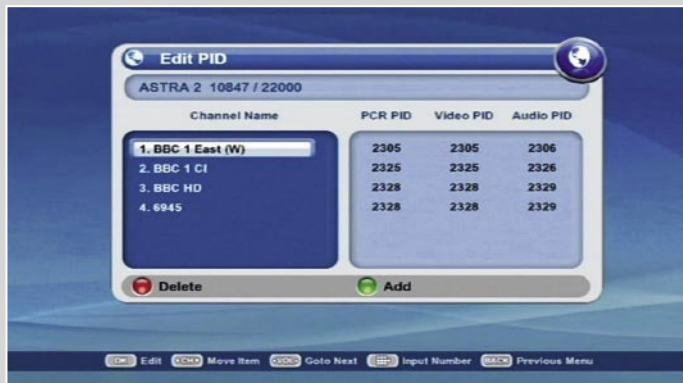
ENERGY DIAGRAM



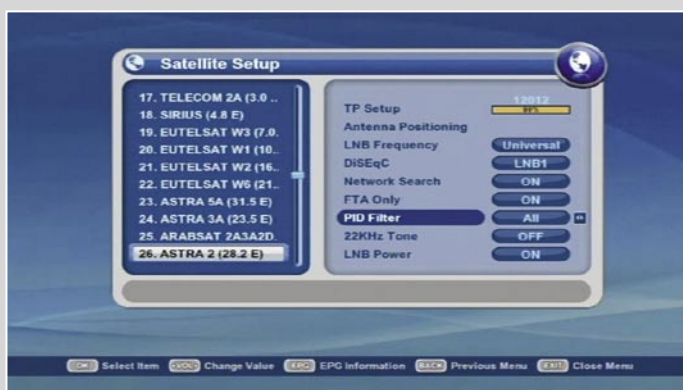
Layar rahasia sejarah saluran |



EPG |



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TeVii S650 – DVB-S2 USB Box

Small but powerful

Dengan S650 pabrikan TeVii di Taiwan memperkenalkan pengembangan lanjutan dari DVB-S USB Box S600, yang sekarang dapat menerima saluran definisi-tinggi (HDTV).

S650 Box hadir dengan kotak logam yang memberikan tampak yang kokoh dan tingkat karya-cipta yang sangat tinggi. Sisi belakang terdapat masukan IF satelit serta keluaran loop-through. Catu daya eksternal – yang juga dihubungkan ke panel belakang – menyediakan daya yang diperlukan kotak ini.

Di satu sisi kami menemukan satu terminal antarmuka USB untuk menghubungkan alat ini dengan komputer berbasis Windows atau Linux melalui USB 2.0. Jika Anda sedang memikirkan: ya, benar – TeVii juga menawarkan driver Linux untuk produk terbarunya ini. Satu LED infrared terletak di balik lapis pelindung di panel

depan untuk menerima perintah dari kendali jarak jauh, satu fitur yang berfungsi dengan sempurna dalam pengujian kami.

Paket utuh hadir dengan peralatan yang lengkap dengan S650 USB box, catu daya eksternal, kabel USB 2.0, kendali jarak jauh, petunjuk pemakaian singkat, baterai untuk kendali jarak jauh, serta CD yang berisi seluruh peranti lunak dan driver yang diperlukan. Pedoman penggunaan yang lengkap tersedia dalam bentuk PDF.

Penggunaan Sehari-hari

Kebutuhan sistem minimum

untuk USB Box TeVii yang baru ini menspesifikasikan Intel Pentium 3 - 1 GHz atau lebih tinggi, untuk kemampuan HDTV perangkat ini memerlukan Intel Pentium 4 - 2 GHz dengan 128 atau 256 MB RAM, DirectX 9 atau lebih tinggi, serta kartu grafis dengan memori minimum 16 MB tersendiri. Tentu saja diperlukan terminal USB 2.0. Secara umum, kebanyakan komputer modern akan mampu memenuhi persyaratan ini, karena MS Windows 2000, XP dan Vista yang semuanya didukung. Driver Linux juga tersedia.

TeVii membekali perangkat ini dengan sejumlah aplikasi peranti lunak seperti TeVii peranti lunak buatan sendiri, peranti lunak untuk Internet-satelit, SkyGrabber – akan dibahas lebih rinci kemudian – peranti lunak komputer ProgDVB untuk DVB-S/2 yang terkenal. Komputer Windows Vista kami mengenali TeVii S650 box segera setelah dicolokkan dan meminta kami



untuk memasukkan CD driver. Untungnya TeVii tidak hanya menyediakan driver 32-bit Windows, tetapi juga seluruh driver 64-bit yang diperlukan oleh pengguna Windows Vista64. Ini adalah kejutan yang tidak dibayangkan. Hanya bisa berharap agar pabrikan lain mengikuti contoh TeVii dan dengan cara menekan peningkatan ke landasan operasi 64-bit.

Driver yang diperlukan segera ter-install dan langkah selanjutnya kami menganjurkan untuk meng-install paket lengkap peranti lunak dari CD. Proses instalasi aplikasi cukup mudah

dilakukan. Ketika peranti lunak TeVii dijalankan untuk pertama kalinya, pengguna akan disambut oleh jendela hitam dan daftar saluran yang masih kosong, karena tidak tersedia saluran yang telah diprogram. Antarmuka pengguna myTeVii dengan tata letak yang jelas. Di sebelah kanan kami menemukan daftar saluran dan daftar satelit, dengan tampilan saluran TV di sebelah kiri. Tentu saja ukuran jendela saluran TV dapat diganti sesuai kebutuhan, juga tersedia mode layar penuh. myTeVii cukup internasional dan dapat diatur untuk bahasa sebagai berikut: Inggris, Jerman, Perancis, Arab,

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Available online starting from 28 November 2008



China, Finlandia, Italia, Polandia, Rusia, Spanyol dan Swedia.

TeVii box mendukung protokol DiSEqC 1.0 untuk pemasangan hingga empat LNB serta protokol 1.1 yang berarti perangkat ini dapat digunakan untuk antena multi-fokus. Pemilik antena bermotor juga diperhatikan karena baik perangkat keras maupun peranti lunak kompatibel dengan protokol DiSEqC 1.2 dan 1.3 (USALS). Pengaturan USALS dapat diatur dengan sangat leluasa melalui menu di peranti lunak TeVii yang sepenuhnya mengendalikan antena bermotor berbasis 1.3.

Secara umum peranti lunak buatan sendiri TeVii memungkinkan sejumlah besar pilihan konfigurasi, seperti mendefinisikan parameter LOF untuk masing-masing satelit. Nilai yang bersesuaian untuk Ku dan C band serta untuk LNB yang digunakan untuk penerimaan sinyal sirkular juga telah tersedia. Sebagai tambahan, sejumlah klik mouse diperlukan untuk mengubah parameter DiSEqC.

Setelah peranti lunak selesai dikonfigurasi untuk bekerja dengan perangkat antena yang ada, langkah selanjutnya adalah melakukan pencarian saluran untuk mengisi data di memori yang tak dibatasi secara virtual. Hingga tahap ini, tersedia daftar saluran yang telah terprogram dengan 177 posisi satelit Eropa, Asia dan Amerika. Daftar satelit ini dan data transponder yang bersesuaian sangat terkini, dan meskipun jika parameter tidak 100% akurat, hal ini dapat segera diperbaiki dengan melihat pengaturan yang diperlukan di situs www.SatcoDX.com.

Nyatanya dimungkinkan untuk meng-edit data satelit dan/atau transponder dengan memperbarui masukan yang ada dengan hanya beberapa klik mouse atau hanya dengan mengisi satelit atau transponder baru. Jika Anda ingin mengisi memori saluran pada TeVii box sudah cukup dengan menandai satu, beberapa atau seluruh transponder satelit dan mengaktifkan pencarian saluran. Peranti lunak ini memerlukan waktu kurang dari delapan menit untuk memindai satelit dengan 100 transponder, yang berada di atas pencapaian rata-rata.

Selama dalam pengujian, TeVii box memberikan hasil yang memuaskan. Di satu sisi receiver ini memiliki threshold yang rendah dan mampu untuk menangani sinyal yang lemah, seperti transmisi dari ASTRA 2D 28,2° BT di lokasi pengujian kami di Munich, misalnya. Di sisi lain receiver ini bekerja sangat

bagus untuk sinyal SCPC dan tidak memiliki masalah dalam memroses sinyal SCPC bandwidth rendah. Transponder uji kami di TURKSAT 42° BT dengan simbol rate hanya 2000 KS/s dapat diterima tanpa masalah.

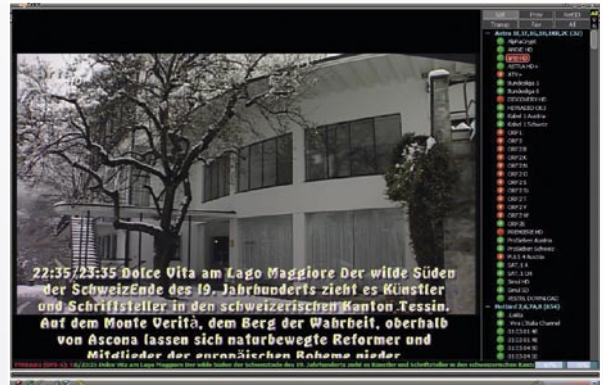
Pada mode penerimaan TeVii dapat diatur untuk menampilkan informasi EPG pada status bar di jendela aplikasi, jika data ini disediakan oleh saluran yang bersangkutan. Tambahannya, selipan OSD yang lengkap dapat dipanggil, yang cukup ringkas ketika mengendalikan perangkat ini dengan menggunakan kendali jarak jauh yang disertakan. Kami yakin bahwa tata letak OSD bisa mendapat penghargaan khusus karena tidak hanya menampilkan nama saluran ketika dipindahkan, tetapi juga menyediakan informasi EPG secara bergerak dan cara ini menawarkan lebih banyak informasi latar belakang daripada yang biasanya diharapkan ketika berpindah saluran. Ini adalah fitur yang sangat menarik dan kami sangat menyukainya! Berbicara tentang penghargaan khusus, peranti lunak ini juga berkomunikasi secara cemerlang dengan kendali jarak jauh yang disertakan, yang diberi label dengan jelas dan leluasa untuk digunakan.

Daftar saluran juga mendapat nilai tinggi dan menawarkan sejumlah pilihan sortir dan pengaturan. Misalnya, saluran dapat disortir menurut paket, transponder atau satelit, saluran TV atau radio dapat dimunculkan hanya dengan klik pada satu tombol dan Anda bebas untuk mengatur sejumlah daftar favorit. Daftar saluran dapat diubah langsung pada jendela utama. Masukan tersendiri dapat diperbarui melalui satelit, diganti namanya atau dilindungi dengan kode PIN dari penonton yang tidak diinginkan, misalnya anak-anak.

Untuk solusi komputer perpindahan saluran DVB-S/2 adalah bagus dengan waktu tiga detik. Perpindahan antar saluran HDTV dan SDTV memerlukan waktu yang sedikit lebih lama. Salah satu keunggulan utama receiver DVB untuk komputer adalah pilihan untuk merekam ke dalam hard disk komputer, dan ini juga merupakan salah satu keunggulan bagi TeVii. Pengatur waktu rekaman dapat diatur tanpa masalah dan time shift juga tersedia, yang berarti bahwa Anda bisa membekukan acara yang sedang ditayangkan kapan saja dan kemudian melanjutkan langsung dari titik tersebut hanya dengan menekan satu tombol. Fitur praktis lainnya adalah kemampuan peranti lunak TeVii untuk merekam seluruh acara dalam mode khusus yang



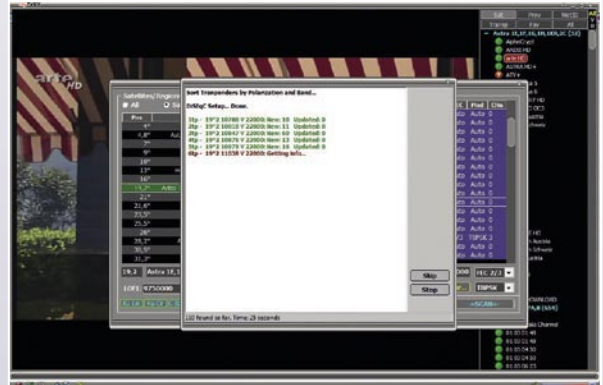
Jendela utama |



Sisipan EPG |



Daftar satelit dan transponder |



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kompatibel DVD, sebagai tambahan untuk transport stream standar.

EPG yang terintegrasi juga menarik dan menampilkan seluruh informasi dengan tata letak yang teratur. Acara dapat ditandai untuk direkam secara langsung di dalam EPG, dan bahkan Anda bisa menentukan pengatur waktu untuk merekam acara setiap hari atau setiap minggu. Untuk memastikan Anda tidak ketinggalan acara kesayangan Anda, Anda juga bisa membubuhkan waktu tambahan sebelum acara dimulai dan setelah acara berakhir pada setiap perekaman.

Kesan keseluruhan yang sempurna dari peranti lunak TeVii dilengkapi lagi dengan antarmuka plug-in tersendiri. Hal ini memungkinkan pengembang peranti lunak untuk menciptakan perluasan dan addons untuk myTeVii dan menawarkan fitur baru dan berguna. Hanya satu hal yang sangat kurang selama pengujian kami yaitu kemampuan untuk menggunakan modul CI untuk penerimaan TV-berbayar. Akan tetapi, pabrikan akan membundelnya dengan pembaca kartu USB untuk beberapa wilayah tertentu pada saat yang bersamaan dengan penerbitan laporan ini.

Tampilan Gambar dan Daya Pemrosesan

Komputer kami yang dipakai untuk pengujian dilengkapi dengan prosesor Intel Core2 Duo 1.8 GHz dan sanggup menampilkan SDTV dan HDTV baik dalam 720p maupun 1080i tanpa masalah sama sekali, bahkan tanpa mengurus banyak daya pemroses dari sistem. Hal ini berarti bahwa Anda bisa bekerja dengan aplikasi lain ketika menonton TV satelit menggunakan aplikasi myTeVii. Dengan sistem Intel Pentium IV lama HDTV tanpa-interferensi pada mulanya hanya bisa untuk 720p, sedangkan 1080i menghasilkan sejumlah penurunan, namun pabrikan segera merespon dan meluncurkan peranti lunak versi baru selama pengujian kami, yang telah memperbaiki masalah ini.

Peranti Lunak Tambahan

Sebagian besar wilayah metropolitan memiliki infrastruktur Internet kecepatan tinggi, situasi agak kurang memuaskan di beberapa wilayah lain. Sering kali tidak terdapat solusi jaringan internet kabel dan DSL, terkadang tidak bekerja karena jauhnya jarak antara interchange dengan pengguna. Dalam kasus ini Internet-via-satelit akan menjadi alternatif nyata dan aplikasi TeViiData yang hadir bersama S650 menjadi peranti lunak yang tepat untuk kegunaan tersebut. Ketika meng-install peranti lunak tersebut, juga di-install driver jaringan yang memungkinkan untuk mengatur dan mengubah seluruh

SkyGrabber



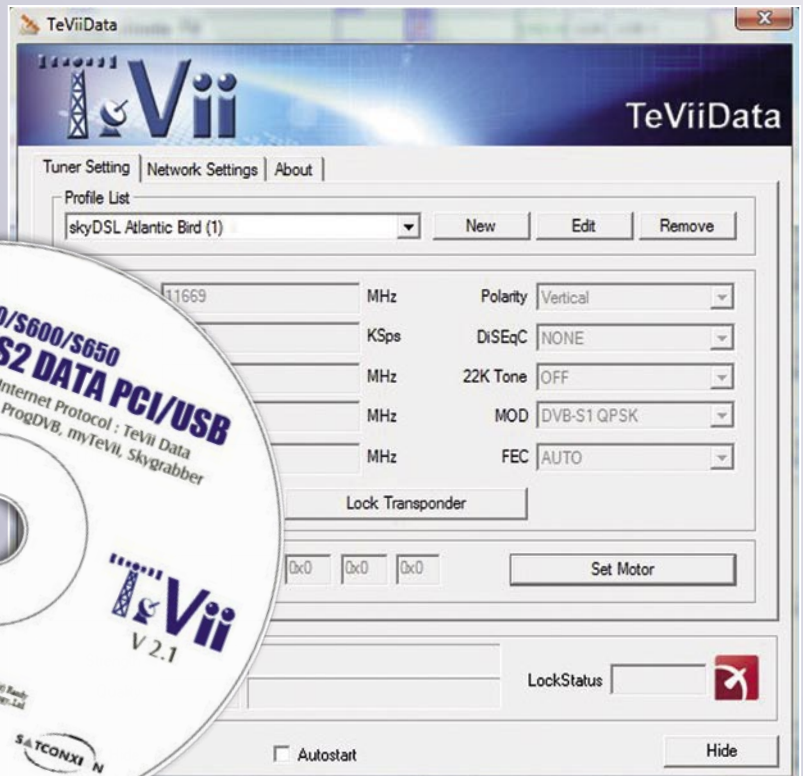
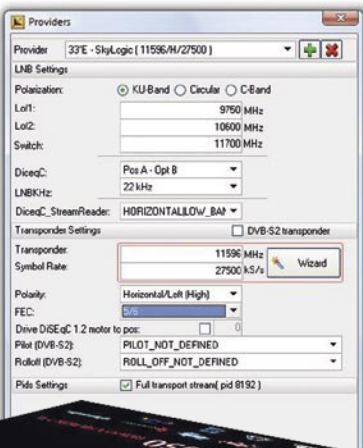
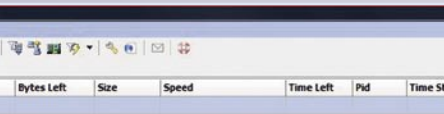
Berbagai pilihan konfigurasi |



Pengaturan LNB / DiSEqC |



Pengaturan Tuner |



TeViiData



parameter TCP/IP yang diperlukan. Dapat dipilih provider yang diinginkan (dari daftar 27 provider/posisi satelit) atau Anda bisa memilih untuk mengisi keseluruhan detail secara manual. Peranti lunak akan memeriksa apakah antena diarahkan secara tepat dan mengaktifkan akses Internet. Peranti lunak SkyGrabber demo juga datang dari bagian internet-via-satelit dan bergantung pada kenyataan bahwa- berbeda dengan akses Internet menggunakan kabel darat - internet-via-satelit tidak mengirim data secara khusus kepada satu pengguna, namun biasanya ke semua orang di

dalam jangkauan pancaran satelit. Data yang diterima dari satelit disaring dan SkyGrabber mencoba mengumpulkan kembali bagian musik, film, dsb. Untuk membuat file yang utuh. Perlu dicatat, bagaimana pun, bahwa menyimpan bahan pihak ketiga bisa menjadi ilegal pada kondisi tertentu.

Sebelum kami menyelesaikan laporan ini, ada satu pesan untuk seluruh pecinta DX di mana pun berada: tentu saja Anda bisa menggunakan TeVii S650, misalnya, program peranti lunak ProgDVB dengan codec Elecard untuk menerima feeds MPEG 4:2:2, misalnya dari EUTELSAT W3A di 7° BT.

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



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



Penerimaan SPCP dari TURKSAT 42o BT |

Opini Ahli

+

TeVii S650 USB Box adalah receiver DVB-S2 yang kompak untuk komputer.

Untuk penerimaan SD, tidak diperlukan perangkat komputer yang canggih dan mampu bekerja baik pada sebagian besar sistem. Peranti lunak yang disertakan sangat lengkap. Penerimaan TV (SDTV dan HDTV) bekerja baik tanpa masalah dalam pengujian kami dengan komputer berprosesor Intel Core2 Duo 1.8 GHz.



Thomas Haring
TELE-satellite
Test Center
Austria

-

Kami menginginkan adanya kemampuan untuk menggunakan modul CI pada TeVii S650.

TECHNIC DATA

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



ENERGY
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AB IPBox 900HD Receiver PVR HDTV Berbasis Sistem Linux Dengan Fitur yang Menjanjikan

ABCom secara positif telah mengejutkan kita dengan beberapa IPBox yang cemerlang. Seperti receiver berbasis-Linux yang secara khusus dihargai oleh pencinta satelit, yang menyukai eksperimen. Pada saat yang sama, ABCom merancang sendiri peranti lunaknya, dengan cara yang mudah dipahami oleh seluruh anggota keluarga.

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12-01/2009

AB IPBOX 900HD

Receiver HD yang sempurna untuk keluarga serta untuk pehobi satelit



DXer sejati selalu memiliki berbagai jenis peranti lunak alternatif untuk dipilih.

Namun tidak berhenti sampai di sini, semakin banyak perhatian ditunjukkan oleh HDTV saat ini.



Memutar MP3 dari memori USB

Jumlah ruang keluarga, di mana posisi utama penempatan TV LCD atau plasma, bertambah dengan dramatis. Tentu saja, receiver HDTV juga mulai bermunculan, namun sebagian besar yang muncul awal tidak memuaskan pada pencinta satelit. Memerlukan waktu, sebelum receiver HDTV yang handal bisa menembus pasar.

Akan tetapi, ABCOM, yang mempunyai banyak pengalaman dalam pembuatan receiver berbasis-Linux, berhasil untuk melangkah lebih jauh. Tentang sebuah receiver, yang bisa menangani semuanya? Baik HDTV maupun SDTV, dalam DVB-S dan DVB-S2. Dengan fasilitas untuk cepat mengganti tuner satelit dan membuatnya menerima transmisi kabel dan terestrial. Dengan fungsi PVR yang mudah digunakan, koneksi jaringan dan semua yang biasa dibawa oleh penguin kepada pemilih receiver berbasis-Linux? Ini adalah ide di balik dua "saudara"- IPBox 9000HD, yang telah ditampilkan dalam majalah TELE-satelit edisi terdahulu, dan 900HD, yang akan diulas lebih lanjut dalam artikel ini.

Saudara yang "lebih muda" ini, sebagaimana dugaan pertama kami, akan kurang mengesankan, daripada 9000HD. Namun hal ini mulai terbukti salah pada saat kami membuka kotak, yang dikirim ke lab uji kami. Terlihat jauh lebih padat, daripada 9000HD, namun juga dirancang dengan mantap, dan fitur layar matrix VFD yang mudah dibaca terletak di bagian tengah panel depan. Dengan bantuan tujuh tombol, yang terletak tepat di bawahnya, Anda bisa mengakses menu, mengubah saluran, konfirmasi pilihan, mengatur volume, semua fungsi dasar dicakupi dengan sempurna, jika terjadi sesuatu pada kendali jarak jauh.

Sudut bawah di sebelah kiri terdapat tombol standby, sedangkan di sebelah kanan - flap dengan magnet, yang menutupi dua rongga CI, menyediakan akses terhadap transmisi yang diacak. Panel belakang dilengkapi dengan konektor-konektor. Dimulai dari

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Menu Utama!



Konfigurasi Satelit!



Pencarian Saluran DVB-S2 secara Manual!

ke Harddisk eksternal. Sekarang inilah yang disebut "memperhatikan pengguna"!

Kami mempunyai kesan yang berlawanan tentang kendali jarak jauh pada mulanya. Ya, juga dilengkapi dengan tombol-tombol, namun beberapa di antaranya terletak di posisi, yang tidak Anda harapkan sebelumnya. Namun ketika pengujian dimulai, kami menjadi terbiasa dengan kecepatannya yang luar biasa. Sebenarnya, cukup logis untuk meletakkan tombol "Menu" dan "Next" di sisi kiri dan kanan tombol kursor! Setelah selesai pengaturan awal, jari Anda akan terbiasa dengan tombol tersebut, menimbulkan satu pertanyaan, kenapa sebelumnya tidak seorang pun berpikir untuk menyusun tombol-tombol tersebut secara logis. Setiap bagian dari kendali jarak jauh memiliki tombol-tombol yang dikelompokkan untuk kegunaan khusus – apakah untuk kendali PVR, untuk penyusunan daftar saluran, untuk mengakses fitur multimedia dsb. Namun bagian terbaik dari kendali jarak jauh ABBox terdahulu tetap dipertahankan – Anda dapat dengan mudah memrogramnya untuk mengendalikan TV-set. Cukup besar daftar berbagai model TV dapat ditemukan pada halaman 11 dari belakang buku pedoman.

Setiap komponen menu dari peranti lunak asli dijelaskan dengan rinci. Dengan pedoman instalasi langkah demi langkah, Anda tidak akan tersesat, meskipun ini adalah receiver pertama yang Anda pasang. Berbagai variasi koneksi juga dijelaskan dengan rinci, dan, jika Anda juga memesan tuner terestrial atau kabel, saluran yang lengkap dan tabel frekuensi disertakan, sehingga Anda tidak perlu mencari-cari informasi ini lagi.

Pengaturan Awal

Setelah kabel IPBox 900HD dicolokkan ke soket listrik di rumah Anda untuk pertama kalinya, Anda akan mendapatkan panduan instalasi, yang pertama kali akan menyelesaikan masalah bahasa, menawarkan Anda untuk memilih bahasa yang diinginkan untuk menu layar, audio, terjemahan dan teleteks. Banyak yang dapat dipilih dari – bahasa Inggris, Rusia, Perancis, Italia, Belanda, Jerman, Denmark, Slovakia, Czech, Hungaria,

Norwegia, Polandia, Portugis, Spanyol, Swedia, Yunani, Turki, Korea, Kroasia, Bosnia dan Serbia.

Tahap kedua adalah pengaturan tanggal dan waktu saat ini, dan dapat memilih apakah Anda menginginkannya untuk diatur secara otomatis di masa mendatang. Layar ketiga akhirnya membawa Anda lebih dekat ke penerimaan saluran, dalam hal menggunakan tuner satelit, di sinilah tempat Anda harus mengisi parameter sistem Anda dan memrogram satelit yang direncanakan untuk diterima. Bahkan sistem yang lebih maju tidak akan menjadi masalah, karena receiver ini mendukung seluruh versi DISEqC, 1.0, 1.1, 1.2 dan 1.3 (USALS). LOF dapat diganti dengan leluasa untuk setiap satelit, sehingga LNB yang di luar kebiasaan juga akan bekerja dengan sempurna.

Setelah seluruh data dasar satelit telah disimpan, tekan tombol kuning untuk memroses menu Pencarian Saluran. Di sini Anda memiliki dua pilihan yang diinginkan – pencarian Manual atau Otomatis. Pilihan yang terakhir hanya menanyakan, apakah Anda ingin hanya FTA, hanya saluran acak, atau keduanya, dan jika pencarian jaringan akan membuat Anda lebih senang, dengan mengisi daftar sebanyak mungkin saluran. Hanya itu, dengan menekan "Search" dan menikmati secangkir kopi. Atau tidak? Karena posisi ASTRA 19,2BT dipindai seluruhnya dalam waktu 5 menit, menghasilkan 1092 saluran TV dan 217 saluran Radio. Sehingga jika Anda tidak sabar untuk mendapatkan gambar di layar, lebih baik Anda berjalan-jalan!

Dalam hal pencarian manual, Anda memiliki seluruh pilihan yang diperlukan untuk mengunci transponder DVB-S dan DVB-S2, dengan modulasi (QPSK atau 8PSK) dan variasi FEC khusus untuk DVB-S2. Mengisi kode PID terdapat pada menu khusus, dan IPBox 900HD tidak memiliki masalah dengan penerimaan SCPC, saluran Calabria dari HELLAS SAT 2 dit 39,0BT dengan SR hanya 1425, segera dapat dikunci!

Menu layar disusun secara logis, Anda bisa segera menemukan pilihan yang diinginkan. Contoh, layar pengaturan AV, di mana Anda bisa memilih rasio aspek, sistem TV (SD-PAL, SD-NTSC, 720p-50 Hz, 720p-60 Hz, 1080i-50 Hz atau 1080i-60 Hz), serta parameter audio Dolby Digital.

Instalasi receiver AB Box yang telah kita ketahui tidak akan lengkap tanpa



saklar catudaya utama. Karena receiver yang akan kami uji ini dilengkapi dengan tuner DVB-S/S2, terdapat masukan IF dan keluaran loop-through, USB, RS-232 dan terminal Ethernet, konektor Scart, tiga colokan RCA untuk keluaran video dan audio, tiga lainnya – untuk keluaran video YUV. Karena kita sedang membicarakan receiver HDTV, colokan HDMI tidak akan ketinggalan. Keluaran S/PDIF juga berguna, jika Anda memberikan perhatian penuh pada kualitas audio. Pada bagian PVR, kami mendapatkan terminal E-SATA, dan bahkan keluaran 5V untuk disalurkan



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Pencarian Otomatis



Pengaturan Harddisk



Layar informasi dengan kemajuan perekaman

menghubungkannya ke jaringan rumah, atau secara langsung ke Internet. Dalam hal Anda memiliki router, hanya dengan menghubungkan IPBox 900HD dengan kabel Ethernet, dan telah terpasang. DHCP akan menangani pengaturan alamat IP dsb, namun jika untuk alasan tertentu hal ini tidak berfungsi, seluruh parameter dapat diatur secara manual. Jika Anda menghubungkan langsung ke Internet, informasi pengguna ADSL diisi hanya dalam waktu sebentar. Untuk saat ini terutama bisa digunakan untuk pembaruan peranti lunak dari situs www.abipbox.com. IPBox 900HD secara otomatis masuk ke server FTP, menawarkan beberapa versi peranti lunak untuk dipilih.

Anda bisa melupakan segala masalah dalam mendapatkan peranti lunak terkini ke receiver Anda melalui RS-232 atau terminal USB, file yang diperlukan diunduh dan di-install lebih awal daripada yang bisa Anda bayangkan. Hal ini masuk akal, misalnya, dalam peranti lunak versi terakhir, ABCom menambahkan dukungan sistem file FAT32 untuk file MP3 dan gambar yang Anda miliki dalam memori USB, sehingga pencarian tanpa akhir untuk format nfs/ext dan akses utiliti untuk komputer berbasis Windows sudah bisa terlupakan. Hard disk untuk perekaman transmisi masih harus diformat dalam ext, namun ini adalah sesuatu yang IPBox 900HD dapat ditangani secara sempurna.

Penggunaan Sehari-hari

Setelah pencarian saluran telah dituntaskan, IPBox 900HD akan menayangkan gambar dari saluran terakhir yang berhasil disimpan. Jika saluran tersebut tidak tersedia untuk alasan tertentu, tekan saja tombol "OK" untuk mengakses daftar saluran yang ada. Pada mulanya tampak agak

minimalis, namun cobalah mengklik, dan Anda akan menemukan bahwa daftar ini dipenuhi dengan banyak fitur. Menekan satu kali tombol merah atau beberapa kali memungkinkan Anda untuk mengurutkan daftar saluran dalam berbagai cara - berdasarkan abjad, berdasarkan paket, berdasarkan satelit, berdasarkan provider, FTA/diacak. Tombol FAV untuk berpindah antara tampilan daftar utama dan daftar favorit, terdapat lima daftar favorit - Olahraga, Drama, Berita, Film dan Musik, namun Anda bisa membuat sebanyak mungkin sesuai keinginan Anda. Akan tetapi, untuk menambahkan saluran ke dalam daftar favorit ini, harus memanggil menu khusus, di mana daftar utama dan kelompok favorit muncul bersamaan, maka tidak cukup hanya menandai saluran yang diinginkan dalam daftar utama. Kembali ke saluran itu sendiri, tekan tombol "i" memungkinkan Anda untuk menghapus, menyembunyikan, mengunci, mengganti nama atau memindahkan saluran yang terpilih, dan, apa yang khususnya kami sukai, mengubah volume audio bawaan. Sangat mengganggu, ketika berpindah saluran dan Anda harus selalu mengatur volume pada TV-set atau receiver, karena penyedia layanan siaran tidak peduli untuk membuatnya setara secara sempurna. Dengan IPBox 900HD hanya pekerjaan satu kali untuk memrogramnya, dan Anda tidak akan pernah mengkhawatirkannya lagi.

Berbicara tentang perpindahan saluran, tidak begitu cepat, namun masih, waktu pergantian saluran tidak akan mengganggu. Berada pada rentang 0,5 hingga 1,5 detik, bergantung pada pemasangan saluran yang dipindahkan. Memerlukan waktu lebih lama untuk berpindah dari saluran HDTV ke saluran lainnya, yang terletak di transponder berbeda, dan nyaris tidak terlihat untuk saluran SDTV





EPG dalam mode Daftar



EPG – rincian acara



EPG dalam mode Pedoman Acara

pada transponder yang sama. Setelah saluran sudah dipilih dan IPBox 900HD menguncinya, Anda bisa menikmati gambar dan suara yang sempurna, yang disediakan oleh receiver. Namun jika penyiar menayangkan jeda iklan, Anda bisa sedikit memainkannya. Perhatikan tombol yang berada di baris ketiga teratas pada kendali jarak jauh. Menekan tombol yang kanan memungkinkan Anda untuk memilih saluran lain dari transponder yang sama, dan gambarnya akan ditayangkan di jendela kecil di sebelah kanan bawah layar. Dua gambar dapat dibuat sama ukurannya dengan menggunakan tombol paling kiri, tombol kedua dari kiri bisa memindahkan gambar yang lebih kecil di sekeliling layar, dan dengan tombol kedua dari kanan Anda bisa berpindah saluran - "sub-channel" akan menjadi layar utama, satu klik lagi - dan begitu sebaliknya. Untuk keluar dari mode PiP, tekan tombol paling kiri lagi. Perlu dicatat, bahwa selain menonton dua saluran dari satu transponder dengan cara ini, saluran yang ketiga dapat direkam secara simultan.

PVR juga akan sulit mengecewakan Anda. Anda pikir hanya ada satu tombol "Rekam" dan hanya itu? Tidak. Selain bagian yang paling jelas, Anda bisa memilih acara dari EPG untuk direkam, dengan mengisi secara manual waktu mulai/berhenti, atau Anda bisa mengatur penyangga time shift, pertama menonton tayangan, dan selanjutnya memutuskan, jika Anda ingin menyimpan rekaman. Timeshifting juga bisa membantu jika, misalnya, Anda menerima telepon penting, namun tidak ingin kehilangan tayangan penting dalam pertandingan sepakbola yang sedang Anda tonton. Hanya dengan "pause" saluran tersebut, dan setelah Anda selesai menelepon, pemain sepakbola favorit Anda sedang menanti di posisi Anda meninggalkannya. Untuk

rekaman lainnya, Anda bisa segera mengaksesnya, hanya dengan menekan tombol "Amplop" pada kendali jarak jauh.

EPG tersedia dalam dua versi - mode "daftar" sederhana, dan di mode "pedoman acara" yang lengkap. Tekan "EPG" satu kali atau dua kali untuk masing-masing mode tersebut. Pastikan Anda telah mengatur waktu yang tepat dalam menu Pengaturan Waktu Setempat, dan Anda dapat dengan mudah memeriksanya apa yang ada pada malam hari, atau apa yang akan ditayangkan oleh saluran film favorit Anda pada malam minggu. Mode "daftar" sebenarnya menampilkan acara yang akan datang untuk saluran terpilih, dengan kemampuan untuk mendapatkan informasi lebih lanjut untuk masing-masing acara, dengan menekan tombol "i". Mode "pedoman acara" juga menampilkan saluran yang berdekatan, Anda dengan mudah bisa menjelajahi acara-acara tersebut, saluran dan hari dalam minggu tersebut, dan bahkan mencari acara yang Anda inginkan, dengan mengetik namanya. Sangat leluasa, bukan? Namun, meskipun, huruf cyrillic dan karakter lainnya ditampilkan dengan sempurna, fungsi pencarian hanya dibatasi untuk huruf latin saja, yang cukup dapat dipahami.

Sedangkan fitur multimedia yang telah kami sebutkan sebelumnya, terdapat dua tombol khusus pada kendali jarak jauh, jelas tertera "Musik" dan "Foto". Tombol ini memberikan akses cepat dan langsung pada file media Anda, yang tersimpan di memori USB, hard disk atau lokasi jaringan khusus. Pemutar MP3 mungkin tampak sederhana, namun melakukan tugasnya dengan sempurna. Dan, seperti yang sudah disebutkan, peranti lunak versi terkini mendukung FAT32 untuk memori USB, sehingga Anda tidak





Opini Ahli

+

Receiver berbasis-Linux yang penuh fitur menjanjikan untuk HDTV dan SDTV, satelit yang didukung, penerimaan kabel dan terestrial, bergantung pada tuner yang terpasang.

Tuner satelit yang kami uji cukup sensitif.

Anggota keluarga tidak akan mengalami masalah dalam mengoperasikannya.

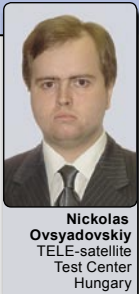
Kendali jarak jauh yang dirancang secara logis.

Mendukung FAT32 untuk memori USB.

Catu daya terpasang untuk hard disk eksternal.

Pengaturan volume audio saluran dalam daftar saluran.

PVR yang mudah digunakan dengan fungsi timeshift.



Nickolas Ovsyadovskiy
TELE-satellite
Test Center
Hungary

-

900HD, dibandingkan dengan "pendahulunya", 9000HD, yang hanya bisa memiliki satu tuner yang dipasang, namun untuk penggunaan biasa hal ini bukan menjadi masalah. Namun, akan lebih baik jika memberikan kemungkinan untuk memasang Harddisk secara internal, sehingga pengguna yang beralih dari IPBox 250S atau 350S hanya perlu memindahkan Harddisk yang berisi rekaman ke dalam 900HD baru, dan dapat segera mengaksesnya. Isu kecil, yang diharapkan bisa diperbaiki pada versi berikutnya – 900HD tidak mendeteksi modul DRE-crypt, yang banyak digunakan di negara-negara Eropa Timur.

TECHNIC DATA

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

perlu khawatir lagi untuk memformatnya untuk sistem file yang kurang populer.

Pembaruan peranti lunak untuk versi yang paling baru juga membantu menyelesaikan beberapa masalah (hang) yang kami alami pada tahap awal pengujian. Secara jelas menunjukkan, bahwa ABCom sedang sibuk memperbaiki peranti lunaknya. Namun, kelebihan dari

keseluruhannya adalah bahwa receiver ini berbasis Linux! Peranti lunak alternatif telah mulai bermunculan termasuk legendaris Enigma. Video dari Enigma HD versi uji pertama dapat dilihat di situs www.abipbox.com. Sehingga meskipun receiver ini lebih ditujukan untuk penggunaan keluarga saat ini, kami telah bisa mengharapkan kemampuan penuhnya untuk segera diungkapkan.

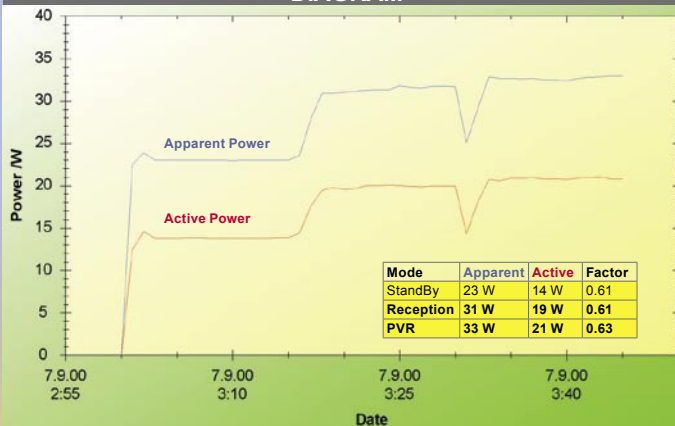


Mengatur volume saluran dalam daftar



Penerimaan SCPC dengan SR hanya 1425

ENERGY DIAGRAM



Dimulai dengan menghidupkan saklar, puncak receiver ini pada 15 menit dalam Standby, selanjutnya penerimaan biasa dimulai untuk 15 menit berikutnya.

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GT-TC40, GT-QDC40 dan GT-QTC40 dari GT-SAT LNB handal untuk Receiver HD Tuner Kembar

Receiver modern saat ini sering memiliki 2 tuner terpasang. Untuk mendapatkan keuntungan penuh dari receiver seperti ini Anda perlu menggunakan LNB kembar. Jika lebih dari satu receiver yang digunakan, Anda perlu memikirkan LNB quad atau quattro. Sehingga Anda bisa memiliki kebebasan penuh atas apa yang akan ditonton dan apa yang akan direkam pada saat yang bersamaan. Di satu sisi, kita memiliki semakin banyak saluran HD yang menarik untuk ditonton. Biasanya dipaket menggunakan sistem DVB-S2 dengan nilai FEC tinggi dan karenanya memerlukan sinyal dengan rasio carrier-to-noise yang lebih bagus daripada saluran SDTV biasa yang sering kita gunakan. Sinyal seperti ini bisa didapatkan dengan menggunakan antena yang lebih besar atau LNB yang lebih baik (low noise).



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GT-TC40, GT-QDC40 AND GT-QTC40 OF GT-SAT
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- + USB1.1 Plug for Software, Channellist Upgrades + JPG-Foto Show
- + 2 Smart Card Reader for Conax, X-Crypt, DG-Crypt, Firecrypt and Crypton
- + Nanoxx 9400: same as 9200 but additional 2 Common Interface Slots



NanoXX 9300C

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- + USB1.1 Plug for Software + Channellist Upgrades + JPG-Foto Show
- + 1 Smart Card Reader for Conax, X-Crypt, DG-Crypt, Firecrypt and Crypton
- + 2 Common Interface Slots



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- + 1 Smart Card Reader for XCrypt



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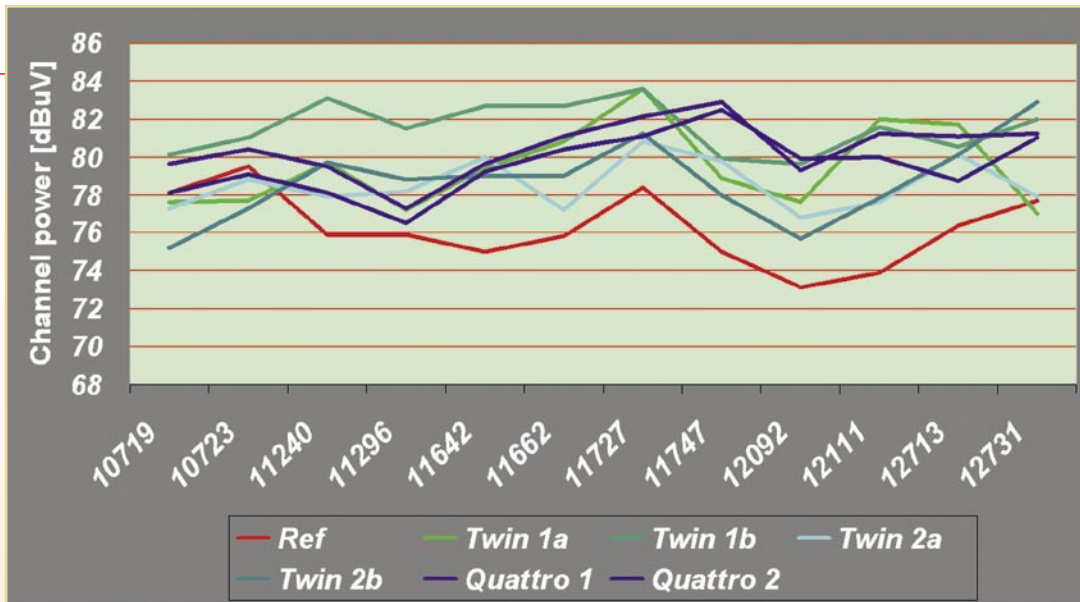
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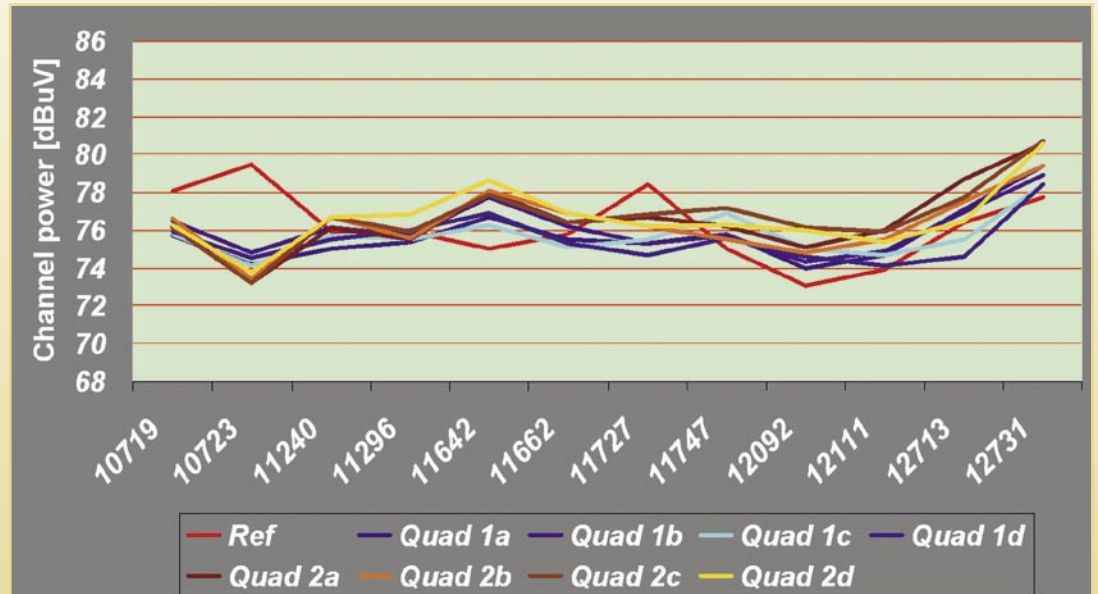
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■ Gambar 1. Daya keluaran untuk LNB kembar dan quattro.

Perusahaan GT-Sat sudah cukup dikenal oleh pembaca kami. Kami menampilkan LNB berdaya keluaran tinggi dalam majalah TELE-satelit edisi 09/2008. Produk tersebut cukup bagus meningkatkan daya keluaran tanpa mengabaikan kinerja noise. Sehingga membuat kami sibuk untuk menguji LNB model baru tersebut. Kali ini kami menerima: peranti GT-TC40, GT-QDC40 dan GT-QTC40. Masing-masing adalah LNB kembar, quad dan quattro.

Kesan kami yang pertama: hasil karya yang sangat bagus dan berukuran kecil. Ukuran yang kecil adalah tepat untuk versi quad dan quattro. Bahkan kami membuat foto untuk menunjukkan perbedaan antara LNB quad yang terdapat dalam edisi terdahulu dan yang ada saat ini (GT-QD40D vs. GT-QDC40). Tentu saja yang lebih besar memiliki daya yang ditingkatkan,



■ Gambar 2. Daya keluaran untuk LNB quad.

tetapi jika dibandingkan dengan LNB quad dari pabrikan lain, GT-QDC40 berukuran lebih kecil dan lebih ringan.

Kami menerima dua LNB untuk setiap tipe dan kami mengukur semuanya. Ini berarti lebih banyak kerja bagi kami namun

dengan adanya hasil akhir yang lebih dipercaya untuk pembaca kami. Sehubungan dengan banyaknya pengukuran, Anda bisa melihat banyak grafik. Mari kita analisa satu demi satu.

Gambar 1 menunjukkan daya keluaran (kekuatan sinyal) pada keluaran LNB kembar GT-TC40 dan LNB quattro GT-QTC40 dibandingkan dengan LNB referensi (tunggal, 0.2 dB). Secara signifikan lebih besar yang berarti bahwa kita bisa menggunakan kabel yang lebih panjang antara LNB dan receiver tanpa kehilangan sinyal. Kinerja dari LNB quad ditampilkan dalam

Gambar 2. Meskipun keluarannya tidak lebih besar daripada model referensi, namun juga tidak lebih kecil. Dapat dikatakan bahwa



■ GT-QDC40 benar-benar lebih kecil daripada LNB quad lainnya


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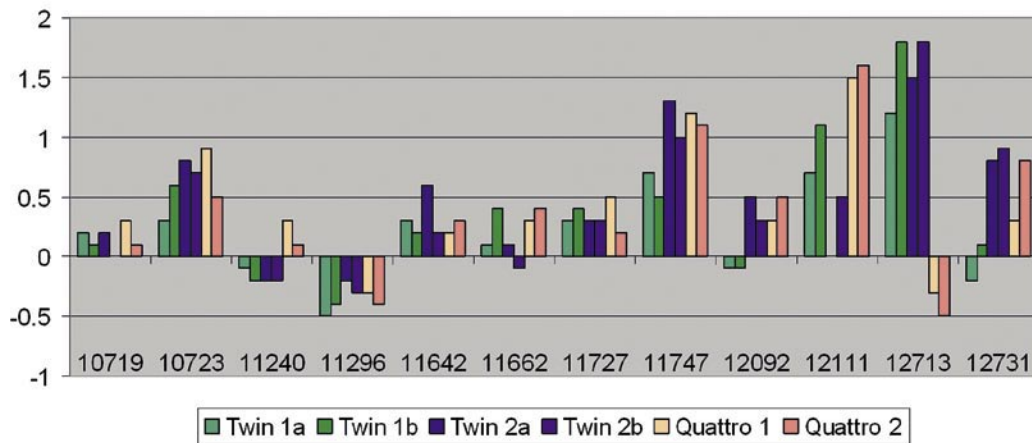
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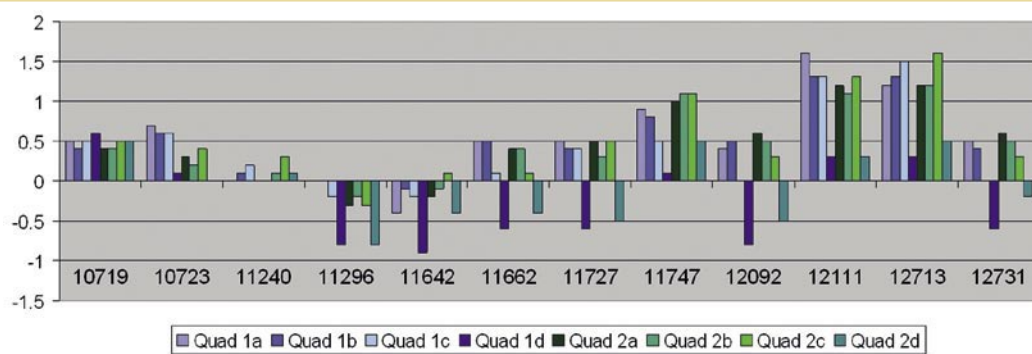
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■ Gambar 3. MER atas perbandingan terhadap LNB referensi untuk model kembar dan quattro.



■ Gambar 4. MER atas perbandingan terhadap LNB untuk model quad.

model quad menghasilkan sinyal sekuat LNB referensi yang sangat bagus. Seperti biasanya, kami bahkan lebih tertarik pada kinerja noise. Kenapa? Hanya beberapa dari kita yang memerlukan sinyal yang sangat kuat (yaitu yang perlu menggunakan kabel panjang) namun secara praktis

kita semua memerlukan sinyal dengan kandungan noise yang rendah. Noise rendah berarti dapat menerima transponder sinyal yang rendah dan margin yang lebih besar untuk kondisi cuaca jelek.

Sekarang, pada Gambar 3 Anda bisa melihat apakah pengukuran

kami untuk LNB kembar dan quattro. Batangan positif berarti bahwa MER (modulation error ratio) lebih baik daripada LNB referensi, negatif – berarti lebih jelek. Semua LNB yang diuji adalah lebih baik daripada LNB referensi untuk hampir seluruh

transponder yang kami pilih untuk diuji! Perbedaan 1 dB atau lebih besar benar-benar dihitung. Seperti yang dapat Anda lihat bahwa kinerjanya sangat istimewa terutama untuk bagian lebih tinggi pada Ku-Band. Kami mengharapkan kinerja yang lebih jelek untuk model quad. Namun menjadi kejutan besar bagi kami, LNB ini juga terbukti handal. Anda bisa lihat di Gambar 4. Sekali lagi hasil yang sangat bagus untuk bagian di dekat ujung atas Ku-Band.

Konsumsi daya DC seperti biasa untuk peranti seperti ini. Model Kembar mengkonsumsi 150~170 mA, quad: 200~230 mA dan quattro: 260~280 mA. Biasanya, receiver disiapkan untuk menyalurkan paling minim 500 mA. Tidak ada satupun receiver yang mempunyai masalah untuk memberi daya pada LNB.

Akhirnya, kami memeriksa kinerja untuk penerimaan transponder yang lemah. Kami menala 11670 pada 5 BT dan mendapatkan C/N = 9 dB untuk LNB referensi. Setelah pemasangan LNB kembar (satu demi satu) kami mendapatkan hasil yang sama: 9 dB. Tidak peduli apa yang kami ukur: MER atau C/N, transponder kuat atau lemah, kinerja noise dari LNB yang diuji benar-benar istimewa!

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

Opini Ahli

+

LNB yang handal dengan kinerja low noise yang istimewa untuk seluruh model dan peningkatan tambahan daya keluaran untuk tipe kembar dan quattro. Produk ini khususnya sesuai untuk receiver HD tuner kembar.



Jacek Pawlowski
TELE-satellite
Test Center
Poland

-
Tidak ada



Keluaran quattro tertera di bagian bawah. ■

■ Sliding connector cover



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- Pre and Post BER can be displayed with their actual values (setup option)
- Toggle to display Post BER and Carrier to Noise (dB)

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

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

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

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Venus Motor

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

VENUS MOTOR
Motor yang handal untuk digunakan
pada antena besar

Parabola besar memerlukan motor yang handal – motor Venus buatan Subur Semesta dari Indonesia diuji pada antena piringan Venus

Sebagian antena satelit besar menggunakan motor penggerak, karena menggunakan konstruksi yang besar untuk menerima sinyal dari satu posisi satelit adalah kurang ekonomis. Membuat antena piringan besar menjadi antena bermotor sehingga dapat menerima sinyal dari beberapa satelit. Kenyataan bahwa C band ditawarkan pada sebagian besar posisi satelit menjadi pembatas juga berkontribusi terhadap hal ini.

Untuk antena piringan merk VENUS buatan pabrikan Indonesia PT Subur Semesta dan ditampilkan dalam majalah TELE-satelit edisi 09/2008, perusahaan ini juga menawarkan motor khusus yang handal dan bertenaga besar. Dengan menggunakan rantai gir, motor menggerakkan penopang antena. Sistem konstruksi ini memungkinkan jangkauan gerakan antena yang lebar, yang secara langsung diterjemahkan menjadi lebih tahan terhadap angin. Akhirnya, motor ini harus tahan cuaca badai yang sering terjadi di Indonesia.

Motor ini dihubungkan dengan menggunakan kabel isi-4 ke receiver dengan colokan actuator 36-Volt, misalnya Venus New Millennium II-EP, yang juga telah ditampilkan dalam majalah TELE-satelit edisi 11/2008. Receiver ini dapat menyimpan hingga 60 posisi satelit, yang lebih dari memadai untuk antena besar.

Kami secara khusus menghargai kenyataan bahwa sistem motor Venus dapat menggerakkan antena piringan untuk keseluruhan sudut 180°, yang juga sudah lebih dari cukup untuk instalasi standar.

Di lokasi uji kami di Lyon, Perancis bagian tenggara, kami hanya dapat menguji sudut 130° dalam pengaturan sebenarnya, yang berarti bahwa kami dapat menggerakkan antena dari INTELSAT 9 di 302° BT (58° BB) hingga INTELSAT 4 di 72° BT.

Motor yang telah terpasang pada antena ■ parabola VENUS, yang juga diproduksi oleh PT Subur Semesta.



■ Motor dari PT Subur Semesta dengan rantai transmisi dari kotak gir ke aksis.





■ Busur derajat dengan pemegang magnet, yaitu alat buatan PT Subur Semesta, motor dapat diarahkan dengan sangat mudah.

Motor ini memerlukan waktu 57 detik untuk menyelesaikan busur ini. Dengan 0.42 A pada 230 Volt konsumsi daya dijaga pada tingkatan rendah yang cukup memadai.

PT Subur Semesta menawarkan motor ini sebagai alternatif yang sesuai untuk antena piringan besar. Dengan kombinasi kestabilan yang tinggi dan daya tahan terhadap angin.



■ Motor Venus membuktikan kehebatannya di wilayah dekat khatulistiwa: tampak di gambar adalah instalasi motor Venus di stasiun AutoScan SatcoDX di Pontianak (provinsi Kalimantan Barat) di Indonesia.

Opini Ahli

- + Mudah dalam pemasangannya.
- Tidak ada buku panduan pemasangan, perlu memiliki pengetahuan teknis untuk pemasangan motor antena.



Sylvain Oscul
TELE-satellite
Test Center
France



■ Dengan receiver Venus New Millenium II-EP, seluruh posisi satelit dapat disimpan. Alat ukur profesional digunakan untuk fine-tuning arah antena.



■ Manager AutoScan SatcoDX di Indonesia, Vincent Witihun, di depan antena parabola Venus yang terpasang dengan motor penggerak.

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| 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



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

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



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

TELE SATELLITE AWARD & BROADBAND
10-11 / 2008

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



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

TELE SATELLITE AWARD & BROADBAND
10-11 / 2008

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



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

TELE SATELLITE AWARD & BROADBAND
10-11 / 2008

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



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

TELE SATELLITE AWARD & BROADBAND
08-09 / 2008

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



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

TELE SATELLITE AWARD & BROADBAND
08-09 / 2008

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



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

TELE SATELLITE AWARD & BROADBAND
06-07/2008

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

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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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



TELE SATELLITE AWARD & BROADBAND
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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

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|---------------------|--|
| 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.

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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

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



Menjadi “SMART” di Black Forest, Jerman

Ketika Anda memegang majalah TELE-satelit edisi ini, keberadaan perusahaan Smart Electronic belumlah genap berumur satu tahun. Tidak diragukan, ini adalah perusahaan yang sangat muda, namun masih bisa membesarkan fasilitas produksinya dan saluran penjualan tertentu. Bagaimana bisnis yang baru mulai bisa berkembang begitu cepat? Inilah yang ingin kami ketahui ketika kami melakukan perjalanan ke pelosok Jerman bagian baratdaya, tempat asal jam Black Forest cuckoo yang terkenal di seluruh penjuru dunia untuk ketepatan dan hasil karya seninya.

■ Dua orang Direktur di Smart, Peter Löble (kiri) dan Christoph Hoefler (kanan) di atas atap gedung bisnis perusahaan. Christoph Hoefler telah aktif di bidang teknologi satelit sejak 1988. Dimulai sebagai teknisi radio dan televisi, dan pindah ke departemen pembelian dan penjualan untuk toko elektronik khusus sebelum memulai sebagai manager lapangan untuk Nokia. Pada tahun 2005 akhirnya dia menjadi kepala penjualan di Wela dan dengan landasan Smart Electronic, pekerjaan barunya adalah Direktur di sana. Peter Löble, Direktur kedua, telah bekerja di bidang satelit sejak tahun 1997. Dia juga bekerja untuk toko elektronik dan bergabung dengan Wela pada tahun 2001 sebagai manager produk. Keduanya telah saling kenal sejak tahun 1997 dan mempertimbangkan mereka sebagai tim yang kuat.

TELE-satellite World

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Christoph Hoefler dan Peter Löble adalah dua orang Direktur untuk Smart dan mereka memberikan penjelasan singkat tentang operasional bisnis saat ini: Smart Electronic adalah pengganti perusahaan perdagangan yang sudah lama berjalan Wela Electronic pada awal tahun 2008. Pada saat yang sama Smart juga mengambil alih keseluruhan operasional tempat pabrik untuk pembuatan receiver satelit dari komponen pihak ketiga. Tanpa disengaja, receiver satelit menjadi salah satu bagian dalam keseluruhan produk mereka. "Kami juga menyediakan LNB, multi-switch dan bahan mounting, yang berarti kami bisa menawarkan segala sesuatu yang diperlukan oleh penyalur khusus satelit," Peter Löble menjelaskan.

Christoph Hoefler kemudian melanjutkan untuk menyediakan beberapa pandangan bagaimana kinerja perusahaan mereka pada tahun pertama bisnisnya. "Kami telah mengantisipasi turnover tahun pertama sekitar 20 juta EUR, dengan peningkatan 10% untuk tahun 2009." Seluruh karyawan yang terlibat dalam teknologi satelit adalah yang diambil alih dari Wela Electronic. Menurut Christoph Hoefler "30 karyawan bekerja di bagian pabrik receiver, sedangkan 15 anggota staff menangani bagian penjualan dan 10 orang bekerja di bagian administrasi." Departemen pemasaran dengan empat anggota staff. Smart berada dalam mode perluasan, sudah pasti!

Jadi apakah tujuan nyata dari perluasan ini? Peter Löble merangkul pangsa pasar perusahaannya sebagai berikut. "Sekitar 50% dari penjualan ditujukan ke Jerman, 20% masing-masing ditujukan ke Eropa Barat dan Timur dan 10% ke Afrika Utara." Untuk tahun 2009 Peter Löble mengharapkan beberapa peralihan pangsa pasar dalam kombinasi dengan peningkatannya turnover. "Kami percaya bahwa 45% dari penjualan kami akan ditujukan ke Jerman, 15% ke Eropa Barat, 25% ke Eropa Timur dan porsi Afrika Utara juga akan meningkat menjadi 15%."

Dia selanjutnya juga menjelaskan alasan dia begitu optimis tentang pengembangan penjualan di Afrika Utara: "Beberapa bulan yang lalu kami membuka kantor cabang di sana, yang berarti sekarang kami dapat melayani konsumen kami di wilayah tersebut dengan segera dan dengan lebih menghemat waktu pengiriman."

Smart mempunyai fokus yang jelas terhadap produksi receiver, dan ini adalah bagian di mana dua orang Direktur juga mengidentifikasi kekuatan inti dari Smart. Christoph Hoefler: "Kami dapat segera bereaksi atas permintaan konsumen, karena kami membuat receiver di sini di wilayah Black Forest, sehingga tidak menghadapi saluran pengiriman yang jauh untuk konsumen kami di Eropa dan Afrika Utara."

Christoph Hoefler memberikan beberapa contoh: "Bergantung pada bahasa yang diminta, kami memasukkan pedoman pemakaian yang sesuai atau mengadaptasi menu layar dengan bahasa setempat." Akhirnya, Smart hidup dengan istilahnya "Hubungkan, tonton". Konsumen perlu merasa gembira dengan receiver Smart mereka mulai dari permulaan, yang bisa dijamin dengan "kemudahan penggunaan dengan kombinasi kualitas yang dibuat di

Black Forest," menurut Christoph Hoefler, orang yang mencapai inti dari filosofi Smart dengan pernyataan tersebut.

Peter Löble mengunjungi kantor penjualan di Morocco hampir setiap bulan dan dia menambahkan bahwa "Smart terbuka untuk rekanan penjualan baru terutama di Eropa, namun juga di negara-negara non-Eropa. Kami mampu mengadaptasi receiver kami terhadap kebutuhan setempat dengan sangat cepat," tambahnya.

Meskipun keberadaan Smart hanya kurang dari satu tahun, perusahaan ini sedang dalam proses untuk pengembangan produk baru. Beberapa di antaranya akan menjadi tersedia pada saat penerbitan majalah TELE-satelit edisi ini. "Kami memperkenalkan beberapa model LNB baru dengan ukuran yang sangat kecil," jawab Peter Löble. Selanjutnya Christoph Hoefler menambahkan bahwa "LNB model ini sesuai untuk antena multi-fokus."



■ Pemandangan di lantai produksi: di sini, sumber komponen sebagai kabinet adalah dilengkapi dengan tuner. Peter Löble menjelaskan: Dengan cara ini kami mampu mencakup beberapa pasar dengan satu unit dasar, bergantung pada permintaan pasar individu dan dengan tambahan keuntungan mampu menjamin kualitas." Tiga jenis produk dibuat di sini: receiver HD dengan CA, CI, USB dan tampilan VFD, model dasar dengan fitur terbatas dan – baru-baru ini ditambahkan – receiver berbasis-LINUX.

Salah satu dari inovasi lain adalah power pack dengan konsumsi daya yang sangat rendah yaitu hanya satu Watt pada mode standby. Sejauh multi-switch menjadi perhatian Peter Löble menjelaskan bahwa "kami juga akan meluncurkan multi-switch Unicable-compatible", yang akan memungkinkan pengguna untuk menghubungkan hingga delapan receiver Unicable-compatible pada satu LNB Quattro. "Hal ini akan menjadi sesuatu yang besar di masa mendatang," Peter Löble menambahkan dengan antusias, karena "dengan menggunakan Unicable Anda dengan mudah menghubungkan satu receiver ke receiver lainnya."

Membicarakan kegunaannya, Christoph Hoefler menjelaskan bahwa "seluruh receiver kami dilengkapi dengan RAPS." Hal ini berarti receiver tersebut akan dijaga tetap terkini secara konstan – saluran satelit baru akan ditambahkan secara otomatis

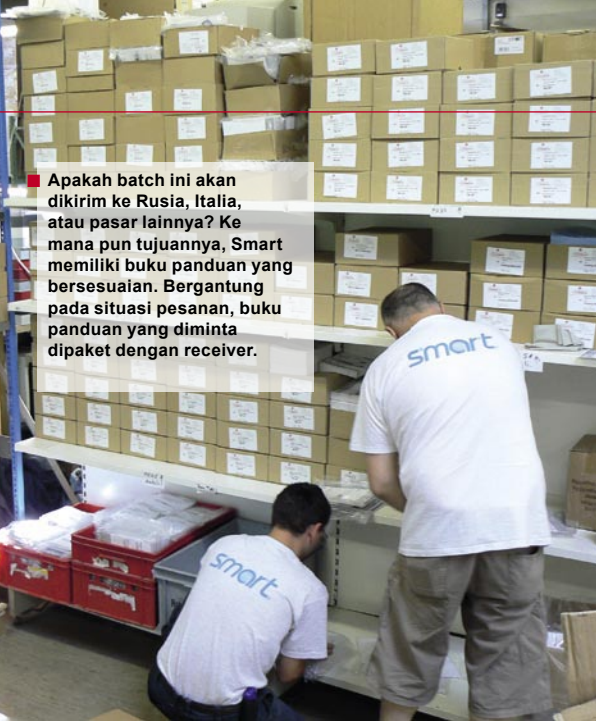
ke dalam daftar saluran. "Sinyal RAPS saat ini dipancarkan dari ASTRA, namun akan segera tersedia di HOTBIRD." Sepanjang receiver menangkap sinyal dari salah satu satelit tersebut, maka receiver tersebut akan diperbarui tanpa perlu dikhawatirkan oleh pengguna.

Jika Anda mempertimbangkan antusias dan semangat yang tinggi dari kedua Direktur dari Smart ini, Anda akan yakin bahwa inovasi akan berjalan terus di Smart. Perusahaan yang berlokasi Black Forest ini sedang menuju untuk dikenal sebagai pabrikan berkualitas untuk teknologi satelit.

**Gedung bisnis Smart ■
Electronic di St. Georgen, berada
di tengah-tengah Black Forest
Jerman.**



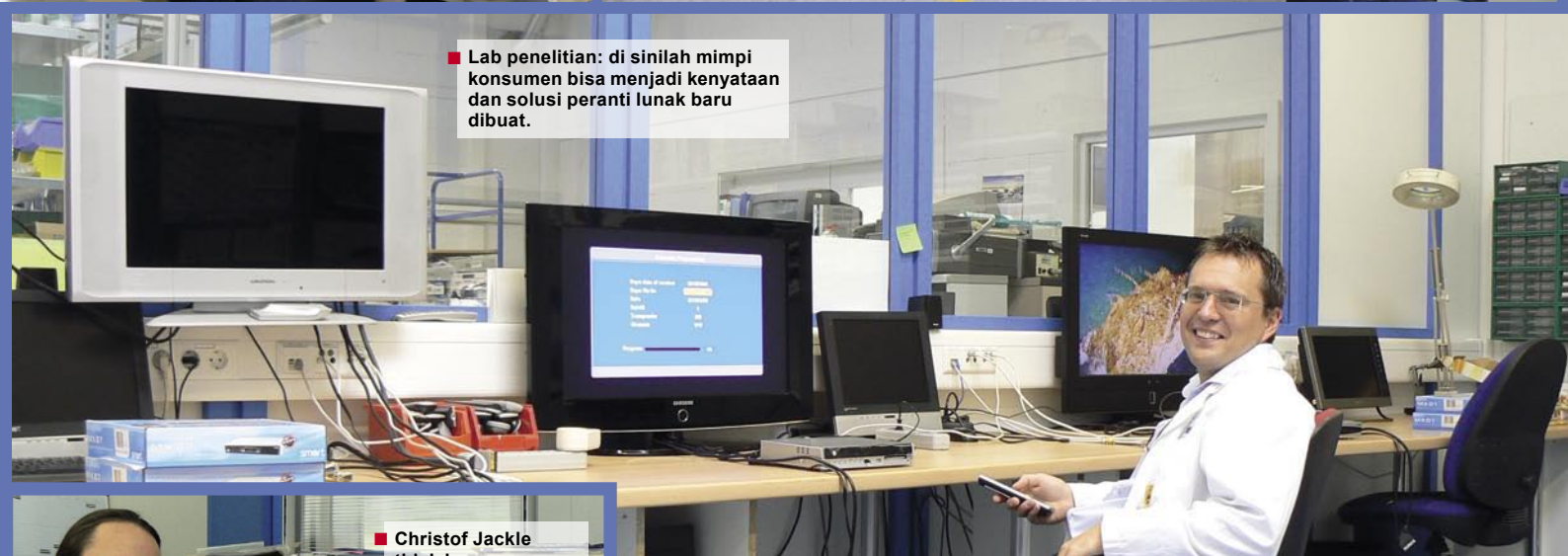
■ Setiap receiver diuji dan diberi nomor serial ■
tersendiri.



■ Apakah batch ini akan dikirim ke Rusia, Italia, atau pasar lainnya? Ke mana pun tujuannya, Smart memiliki buku panduan yang bersesuaian. Bergantung pada situasi pesanan, buku panduan yang diminta dipaket dengan receiver.



■ Pemandangan di bagian gudang: Selain receiver, Smart juga menawarkan paket yang lengkap, seperti untuk berkemah.



■ Lab penelitian: di sinilah mimpi konsumen bisa menjadi kenyataan dan solusi peranti lunak baru dibuat.



■ Christof Jackle tidak hanya menangani dokumentasi teknis tetapi juga merancang kardus pembungkus. Logo energi Smart – yang tampak di monitor – adalah salah satu hasil kreasinya.



■ Ruang penjualan: dari sini, Smart melayani konsumen dari seluruh penjuru dunia.



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■ Lorna Brady Glover, President SeaTel Inc

Terdapat beberapa sektor pada teknologi satelit dimana AS secara jelas berada di atas. Salah satu di antaranya adalah antena bermotor pelacak satelit dua-arah yang banyak digunakan pada kapal. Pemimpin pasar untuk teknologi ini adalah SeaTel di California.

Bobby Johns adalah Manager Produk TVRO dan terlihat di depan bangunan SeaTel di Concord, di bagian timur Oakland dan San Fransisco di utara California.



Lorna Brady Glover adalah President SeaTel, Inc. dan dia mengacu ke studi yang baru dipublikasikan oleh COMSYS yang melaporkan bahwa SeaTel memiliki porsi 73% untuk segmen pasar ini. SeaTel, Inc. adalah milik Cobhan Satcom Group dan mempunyai 205 karyawan di lokasi Concord di California bagian utara. Manager Sumberdaya Manusia Audrey Anderson merincikannya: "113 karyawan di Produksi,

12 di Penjualan, 20 di Layanan Konsumen, 39 di Pengembangan Teknis (Engineering dan IT)". TELE-satelit baru-baru ini melaporkan (edisi 03/2008) kantor cabang Eropa yang dibuka pada tahun 1996 oleh Lorna Brady Glover, dioperasikan dengan nama SeaTel Europe dan saat ini dijalankan oleh James Boulton. Kantor cabang lainnya yang baru-baru ini dibuka di Singapura dan

SeaTel juga mengoperasikan kantor di Fort Lauderdale, USA.

Lorna Brady Glover sangat puas dengan perkembangan bisnisnya: "Terus meningkat secara reguler! Salah satu alasan untuk ini adalah nilai tukar Dolar AS dan bagaimana hal ini berubah, membuat produk kami lebih menghasilkan di bagian lain dunia ini." Bobby Johns, Manager Produk TVRO,

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■ Tampak bagian Departemen Pengembangan. Susan Fu adalah insinyur Peranti Lunak Senior sedang mengembangkan kendali tiga-aksis.

Bobby Johns menjelaskan. Tidak hanya mereka menginginkan siaran TV-nya, tetapi mereka juga ingin akses Internet dalam kapal jenis ini.

Ini adalah prospek yang sangat bagus untuk meningkatkan penjualan; SeaTel secara pasti melakukan bagiannya dengan konsisten mengembangkan produk baru. Yang terbaru adalah model USAT24. USAT adalah "Ultra Small Aperture Terminal" dan 24 menunjukkan ukurannya, dalam hal yaitu

menjelaskan model produknya: "25% dari sistem penerimaan kami berarti untuk sinyal TV dengan sisanya 75% mencakup layanan data, misalnya uplink dan downlink Internet." Lorna Brady Glover sangat optimis tentang bisnisnya yang semakin maju.

Secara geografis, Lorna Brady Glover melihat pasaran Asia sebagai yang paling potensial untuk pertumbuhan dan mencari lebih dekat pasar untuk kapal kontainer dan tanker: "Mereka ingin menawarkan hiburan dan akses internet di dalam kapal, yang akan membantu mempertahankan kru kapal, dan mereka memesan semakin banyak sistem penerimaan satelit kami."

"Yang juga menarik", Bobby Johns menambahkan, "bahwa terdapat kecenderungan penambahan antena kedua dan keempat." Kapal Pesiar biasanya tidak hanya memasang satu antena tetapi dua untuk mencegah adanya gangguan, atau kendala halangan lainnya. Beberapa telah memiliki layanan dari dua antena untuk menerima dua satelit yang berbeda atau layanan Internet; bahkan empat sistem juga sedang dipasang. "Penumpang kapal pesiar semakin meningkat permintaannya",



■ Pemasangan prototip oleh Josh Lahomme.

■ Kendali Mutu adalah sangat penting bagi SeaTel. Chris Holt adalah inspektur Kesesuaian Kualitas dan menggunakan Mesin Pengukur Koordinat untuk memeriksa keakuratan pemutar yang dipasang pada antena.



■ Michael Rahbani adalah salah seorang dari lima insinyur layanan konsumen. Jika seorang konsumen memiliki masalah dengan sistemnya, mereka akan menelpon SeaTel. Para insinyur kemudian berusaha menyelesaikan masalah tersebut. "Kami bisa dihubungi dari pukul 08:00 pagi hingga pukul 16:30 sore", Michael Rahbani menjelaskan, "terdapat layanan on-call yang tersedia hingga tengah malam dan akhir pekan. Pada hari kerja, setelah tengah malam, akan diambil alih oleh rekan kami di SeaTel Eropa." Hal ini menjamin bahwa konsumen SeaTel dapat menjangkau pihak yang kompeten kapan saja sepanjang hari, "Kami mendapat 250 hingga 300 panggilan telpon setiap minggu", kata Michael Rahbani, "dan jika masalah tidak bisa diselesaikan melalui telpon, kami akan menuju ke lokasi untuk menanganinya."

24 inci atau 60cm. "Antena piringan ini akan digunakan untuk Internet", John Phillips menjelaskan, Vice President Engineering. Perangkat ini adalah modifikasi dari sistem versi Coastal 24, yaitu antena TV 24" (60cm). Kedua antena ini memberikan pemilik kapal pesiar siaran TV dan Internet pita-lebar.

Dengan beredarnya TELE-satelit edisi ini, sistem multi-satelit pertama untuk kapal akan muncul di pasaran! Proyek ini ditangani oleh Bobby Johns yang bertanggungjawab untuk produk penerimaan TV. Perangkat ini terdiri dari motor dengan tiga aksis karena azimuth dan elevasi saja tidak cukup; dengan penerimaan multi-satelit, posisi relatif LNB juga harus dijaga konstan. Hal ini menjadi sangat menantang bagi insinyur SeaTel.

SeaTel mempunyai kesenjangan pasar antara antena bermotor dan antena pelacak satelit yang terkendali secara penuh. Dengan pengembang produk baru yang konsisten, aplikasi baru juga akan ditaklukkan.

SeaTel telah memperluas penerimaan satelit dalam wilayah yang sebelumnya tidak bisa direalisasikan. Ciri khas orang Amerika: tantangan adalah yang akan ditanggulangi!



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■ Tampak bagian gudang: radom kecil menunggu untuk pemasangan sistem.



■ Pengangkutan sistem yang lebih besar seperti ini memerlukan perhatian khusus. Masing-masing bagian dipaket dan dilindungi dalam karton berukuran khusus. Robert McNeally adalah salah seorang karyawan pengiriman yang memastikan setiap bagian diikat dengan semestinya untuk transportasi.

Henry Adams adalah Pengawas Kendali Inventaris dan mengawasi inventaris pusat. Tiang penopang digunakan untuk antena piringan yang lebih besar. Tiang penopang di sebelah Henry adalah untuk antena berdiameter 2 meter dan yang lebih besar adalah untuk antena 3,6 meter. "Masa pergerakan stok kami adalah satu minggu", Henry Adams. SeaTel telah menggabungkan prinsip Just-in-Time. Dia melanjutkan: "Tiang penopang sebenarnya dikirim kepada kami setiap dua hari." Ian J. Smith adalah Koordinator Operasi dan menambahkan, "Bagian lebih kecil seperti sekrup diisi dua kali sehari." Hal ini memungkinkan SeaTel untuk menjaga stok pada tingkat minimum. Ini tidak saja ekonomis tetapi juga diperlukan jika mempertimbangkan ruang yang tersedia.

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New at SeaTel: Multi-Satellite Motorized System

■ Baru di pasaran:
antena 60cm ini bisa
menerima lima satelit



■ Ya, lima satelit meskipun hanya terlihat tiga: feed yang tengah menerima tiga satelit – 101o di tengah serta 99o dan 103o di kedua sisinya. Dua feed di sebelah kiri adalah untuk 110o dan 119o. Bobby Johns, manager produk untuk sistem ini, sedang mencari LNB monoblok dengan 2o offset. "Ini akan memberikan solusi yang lebih menarik untuk masalah penerimaan."

Bagi pembaca TELE-satelit yang lebih berpengalaman, unit penerimaan yang terlihat di sini adalah polarisasi sirkular dan multiswitch terpasang di dalam kotak. Hal ini menjelaskan empat konektor "F".



Baru di SeaTel: Sistem miniatur Up-/Donwlink

John Phillips adalah Vice President di bagian ■ Engineering dan memamerkan produk pengembangan terbaru: antena 60cm untuk sistem internet dengan uplink dan downlink – model USAT24 Broadband di Laut. Kotak kecil berwarna hitam di dalam piringan adalah penerima GPS yang untuk beberapa tahun telah disertakan oleh SeaTel sebagai asesoris standar.



■ Antena kecil dikendalikan dengan elektronik yang kompleks. Dalam kotak di sebelah kiri bawah adalah BUC (Block Up Converter) dan dalam kotak di sebelah kanan adalah kendali antena.

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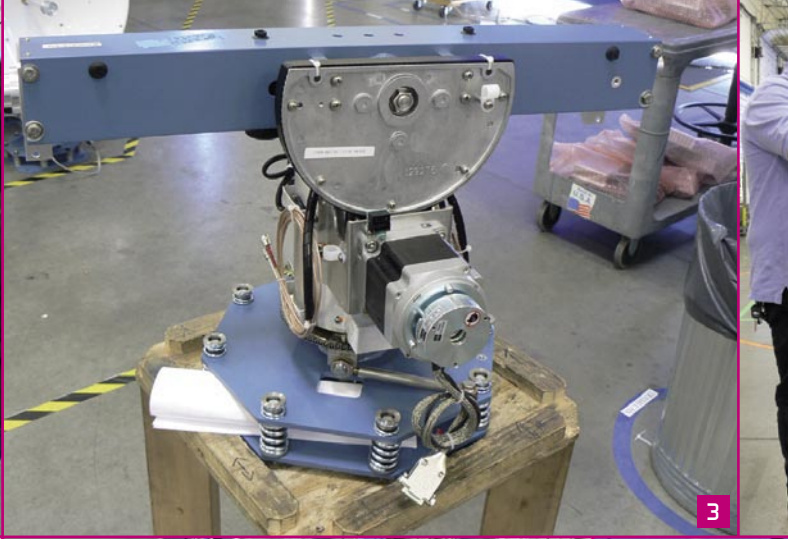
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4



5



6



7



11

■ Daniel Blair adalah Insinyur Fabrikasi dan bertanggung jawab terhadap setiap tahap pemasangan yang pada akhirnya membawa ke produk jadi.



Bagaimana pembuatan sistem 3-aksis maritim

Tahap 1: Tahap pertama ditangani oleh pekerja SeaTel bernama Sandy Sneed: dia memasang unit dasar, inti dari sistem antena berputar. Buku pegangan bergambar membantunya memasang dengan benar.

Tahap 2: Selanjutnya adalah pemasangan motor; hasil dari pemasangan ini disebut Canister. Diane Perno-Spiridonov terlihat sedang bekerja di sini. Seperti halnya seluruh karyawan bagian produksi, dia memakai kacamata pelindung.

Tahap 3: Dengan penambahan level beam maka canister telah selesai dan menjadi unit yang stabil. Unit dasar dari sistem antena piringan tiga-aksis telah selesai.

Tahap 4: Bergantung pada ukuran antena piringan, dipasang rangka piringan. Eddie Estrada terlihat sedang bekerja di sini.

Tahap 5: Tahap ini adalah pemasangan komponen elektronik.

Step 6: Bobby Hughes memasang penopang bawah.

Step 7: Antena piringan disiapkan. Jim Miller terlihat sedang memasang feedhorn pada reflektor offset berdiameter 2,4-meter.

Tahap 8: Telah menjadi kenyataan! Piringan didekatkan ke canister dengan bantuan crane dan keduanya dihubungkan.

Tahap 9: Sekarang waveguide sudah dapat dipasang. Hal ini menghubungkan feedhorn ke bagian elektronik.

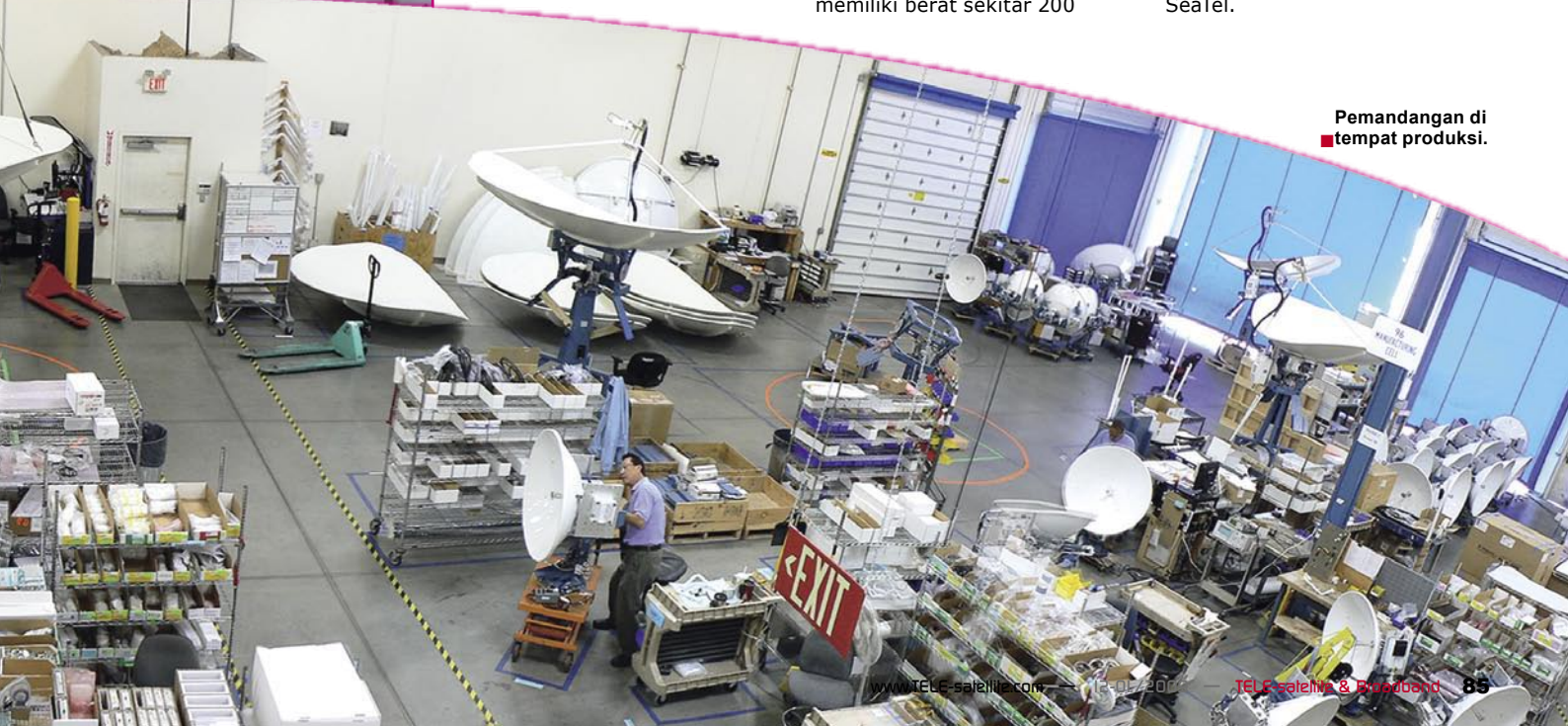
Tahap 10: Apakah pemasangan sudah selesai? Tidak, belum. Tugas Jarvis Walker baru saja dimulai. Dia menyeimbangkan sistem antena dengan pemberat. V-belts dilepaskan dari motor sehingga antena bisa berputar dengan bebas. Antena ditempatkan pada posisi horizontal dan tidak boleh miring ke satu sisi. Jika miring ke satu sisi, pemberat akan ditambahkan pada sisi lainnya. Sistem seperti ini dengan piringan 2,4-meter memiliki berat sekitar 200

kg (440 LBS) dan perlu di seimbangkan dengan sempurna. Penyeimbangan antena dilakukan secara manual setelah seluruh V-belts dipasang kembali sehingga pengaturan elektronik dapat dilakukan. Masalah kecil pada keseimbangan yang mungkin masih ada dapat ditemukan melalui perbedaan penggunaan daya motor pada tahap selanjutnya.

Tahap 11: Pengujian pada produk yang telah selesai. Joaquin Sanchez menyalakan motor dan menggerakkan antena ke setiap arah. Jika ditemukan masalah keseimbangan, akan dipasang pemberat.

Tahap 12: Selesai! Unit telah sempurna seimbang dan telah diuji sebagaimana mestinya. Michael Flood menguji seberapa mudah piringan dapat digerakkan.

Tahap 13: Tidak, masih belum selesai. Di lokasi konsumen, antena dipasang dalam sungkup untuk perlindungan terhadap cuaca. Di sini terlihat Ian J. Smith, Koordinator Operasi SeaTel.



Pemandangan di tempat produksi.

Dua huruf "X" menandakan Spot di Frankfurt

NANOXX

Merk dagang dari pabrikan receiver produk NanoXX adalah dua huruf 'X'. Dua huruf 'X' ini juga muncul di nama perusahaan MatriXX. Kami ingin mengetahui rahasia dari dua huruf 'X'. Kami menemui Marcel Hofbauer di kota kecil Liederbach di utara Frankfurt, Jerman. Dia adalah pendiri dan President MatriXX dan memilih nama NanoXX untuk produk receivernya. Ini adalah nama yang pintar dengan dua huruf 'X' besar.

Marcel Hofbauer telah terlibat dalam industri satelit sejak awal. Orang tuanya memiliki toko antena dan ketika penerimaan satelit dimulai pada akhir tahun 80-an, Marcel Hofbauer membantu ayahnya memasang sistem antena. "Saya ingat LNB pertama dengan noise figure 2,4 dB", komentar Marcel tentang masa lalu.

Pada tahun 1994 dia memulai karir profesionalnya sebagai manager penyaluran pada salah satu perusahaan penjual antena. Ketika bisnis ini dijual pada tahun 2003, Marcel Hofbauer mengambil kesempatan ini dan menjalankan bisnis ini untuk dirinya sendiri: "Istri saya yang ikut membantu", kenangnya, "dan dengan orang ketiga kami memulai perusahaan MatriXX Systems dengan tiga karyawan. Salah satu produk kami yang sukses pada saat itu adalah penyaluran Dreambox."

MatriXX sampai sekarang masih menjadi agen besar untuk segala komponen yang diperlukan dalam instalasi satelit. Namun ada sesuatu yang mengkhawatirkan Marcel Hofbauer: dia memiliki beberapa ide untuk receiver satelit. "Namun tidak ada pemasok yang ingin menerapkan ide saya", dia menjelaskan. Terdapat titik kelemahan lain dari pemasoknya: "Saya tidak puas dengan layanan konsumen

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dan ingin meningkatkannya." Sehingga, pada tahun 2006 dia membuat merk receivernya sendiri: "Saya menemukan satu pabrik di Korea Selatan yang dapat bekerja sama dengan saya untuk membuat ide saya menjadi kenyataan." Sebagai tambahan pada layanan konsumen yang telah ditingkatkan, dalam hal dukungan purna jual, sehingga Marcel Hofbauer sekarang benar-benar bisa dikembangkan dan ditingkatkan secara berkelanjutan dengan adanya tanggapan dari konsumen, dia juga mampu merealisasikan ide teknisnya.

Marcel Hofbauer sebenarnya tertarik dengan kesesuaian jaringan. "Ini adalah masa depan!" dia diyakinkan. Penghubungan receiver dengan Internet adalah visinya. "Dunia multimedia telah hadir", dia memperkirakan dan menunjukkan satu contoh, "Kami sedang mengerjakan receiver model terkini 9500HD yang kompatibel dengan

Dengan titel insinyur, Marcel Hofbauer adalah pendiri dan President dari MatriXX Systems dan penemu nama merk receiver NanoXX. Peta di belakangnya datang dari bagian logistik yang bekerja sama dengan MatriXX. "40% dari konsumen kami adalah di Jerman, 50% terdapat di Eropa, dengan sisa 10% di luar Eropa", Marcel Hofbauer menjelaskan dan sehubungan dengan penyaluran produk, "Hingga sekarang 50% dari penjualan adalah dari produk partai besar; sisa 50% dari penyaluran receiver merk NanoXX. Kami mengharapkan peningkatan yang kuat." ■



Gedung MatriXX di Liederbach dekat kota Frankfurt. Di bagian depan bangunan adalah kantor; di bagian belakang adalah gudang. Pada saat ini perusahaan memiliki delapan karyawan. ■





Daniel Sam adalah Direktur Penjualan dan menjelaskan, "Saat ini kami sedang bekerja sama dengan penyalur di Swiss, Austria, Swedia dan Inggris, serta terbuka bagi penyalur dari bagian lain di negara-negara Eropa." Tujuh model receiver yang tersedia saat ini. Receiver unggulan adalah NanoXX 9500HD yang baru saja diperkenalkan oleh TELE-satelit. Pembaruan lain yang sedang dikerjakan dan TELE-satelit akan menceritakan semuanya pada saat sudah tersedia.



Manager Logistik Nico Schumann memiliki banyak pekerjaan di gudang, "Saya tidak saja mengatur pengiriman, tetapi juga terlibat dalam teknologi", komentarnya, "dan dengan pesanan yang besar saya bekerja dengan karyawan lain untuk mengirim produk sesegera mungkin kepada konsumen."



Bahkan produk terbaik kadang-kadang memiliki kesalahan. Tetapi, jangan khawatir, Teknisi Servis Andrea Nestola menemukan setiap masalah.





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■ Kreativitas adalah hal yang baik, namun masih tetap harus diatur. Ana Maria Hofbauer, istri Marcel, menangani pembukuan sejak perusahaan mulai beroperasi.

web cam.” Pikiran di balik pergerakan ini? Untuk menggunakan kamera jaringan sebagai perangkat keamanan. Anda bisa, misalnya, dengan mudah memasang kamera di luar dan dengan hanya menekan tombol pada kendali jarak jauh maka gambar dari kamera IP akan masuk ke dalam acara TV yang sedang ditonton. “Topik keamanan semakin menjadi penting”, komentar Marcel Hofbauer, “sebuah kamera, misalnya, yang terpasang di pintu depan juga akan menjadi menarik bagi pengguna akhir.” Marcel Hofbauer sedang mencari penggunaan normal selanjutnya dari receiver satelit dan menawarkan pengguna dengan tambahan kemampuan yang realistis.

Dua huruf ‘X’ dalam nama mewakili dua kegunaan: kegunaan yang terlihat dan tambahan kegunaan yang tidak terlihat. Sangat pintar!



■ Asisten Penjualan Gisela Hanley selalu menggunakan headset: “Saya selalu menerima telepon dari konsumen di seluruh penjuru dunia.”



■ Marcel Hofbauer memahami seputar penerimaan satelit. Beberapa tahun yang lalu bersama dengan ayahnya (kiri) dia mendirikan antena satelit C-Band.

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3.65m Dish for 300 Euros

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



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

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

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



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



■ The mast is installed into a concrete base.



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



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



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

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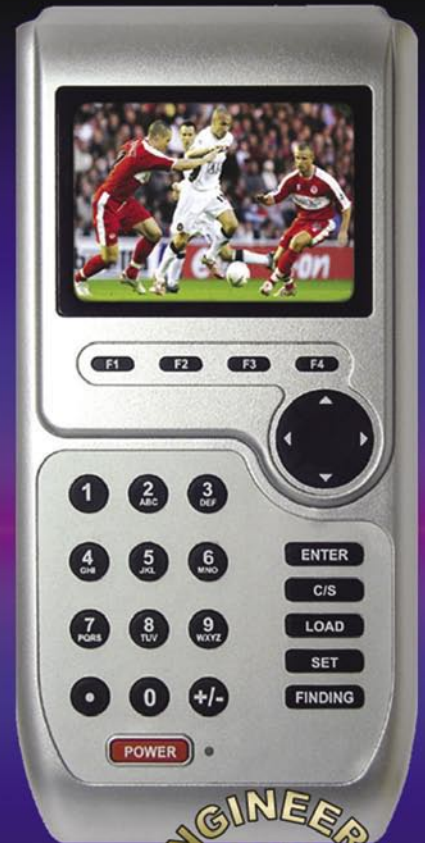
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■ The parabolic form takes shape automatically as the wire mesh panels are placed on the frame.



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



■ Finished! All of the panels have been installed.



■ The Az/EI mount of the dish.



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



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

Alexander Wiese

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

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

But, is this answer really correct?

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

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

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

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

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

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

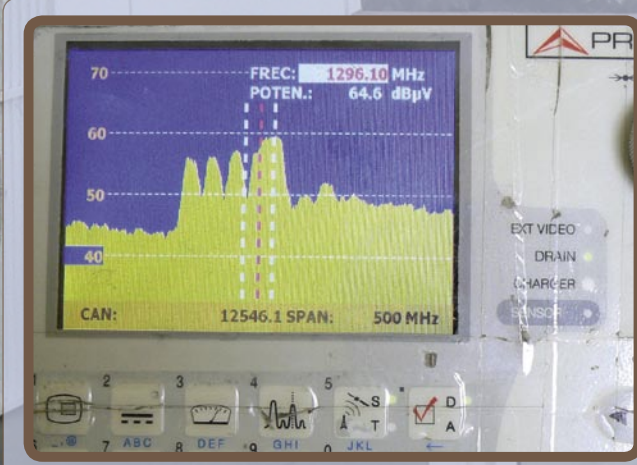
Diego shows us the spectrum of the ECHOSTAR satellite on his Promax signal analyzer: "This peak at 12.567 is particularly strong but ECHOSTAR is not responsible for this." The AMAZONAS bird at 299.0° east (61.0° west) transmits a data signal on a European beam. It's not hard at all to receive this transponder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

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

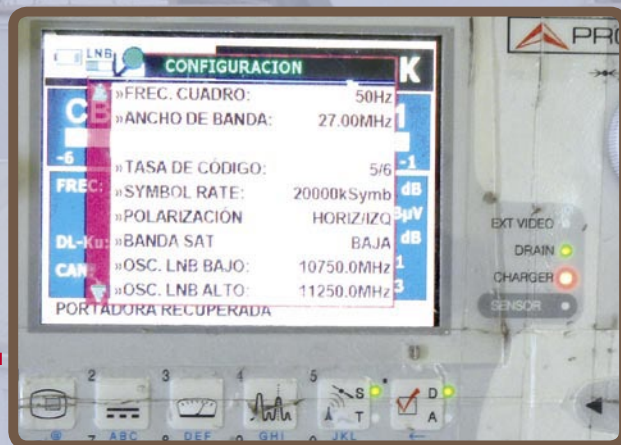
Our visit to Diego in Tenerife gave us these conclusions: with a proper receiver and activated card from Dish Network it would be possible to receive four HDTV transponders consistently and with sufficient signal strength. A larger diameter dish would produce more transponders.

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

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



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



■ ECHOSTAR transmits with a symbolrate of 20000.

Sonic Satellite Meter



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

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

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

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

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

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

moslem_dayani@yahoo.com



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



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

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

„The pharmacist“



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

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



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

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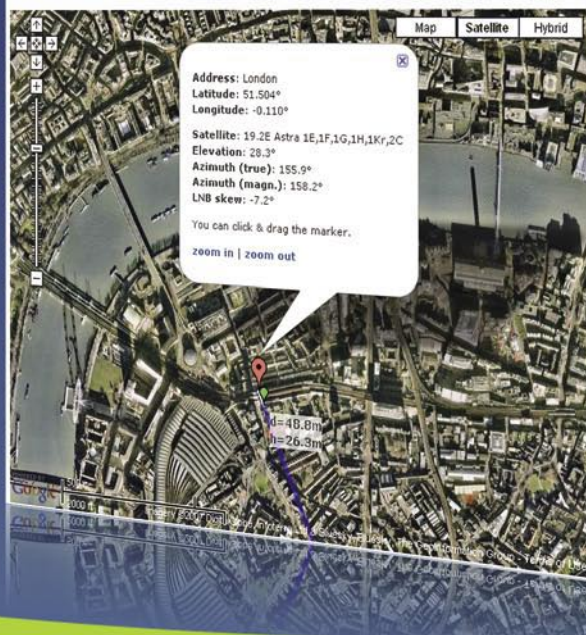
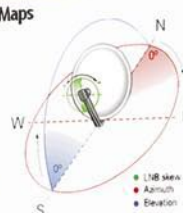
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13.0E Hotbird 6,7A,B
19.2E Astra 1E,1F,1G,1H,1K,2C
42.0E Turksat 1C, 2A
16.0E Eutelsat W2
26.0E Badr-2,3,4/Eurobird 2
5.0E Sirius 2,3
5.0W Atlantic Bird 3
7.0W Nilesat 101,102, Atlantic Bird 4
1.0W Intelsat 10-02

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



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EUROPE

EUROPE

VIASAT RECEIVES EUTELSAT KA-BAND CONTRACT

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

RICHARDSON TO DISTRIBUTE AVAGO PRODUCTS

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

METRACOM AND DATHPATH PARTNER FOR NETWORK MANAGEMENT SYSTEM

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

DENMARK

A. P. MOLLER – MAERSK SELECTS INMARSAT FLEETBROADBAND

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

GERMANY

SWR ORDERS SNG VEHICLE FROM NDSATCOM

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

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

ITALY

AVANTI SIGNS DISTRIBUTION DEAL WITH CO.NA

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

ORBIT AND MILANO TELEPORT ORDER ORSAT SYSTEMS

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

POLAND

AVANTI SIGNS BROADBAND DISTRIBUTION DEAL WITH TTCOMM

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

UNITED KINGDOM

VIASAT TO SUPPLY ACCELENET WAN TO BENTLEY WALKER

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

TALIA LAUNCHES IP NETWORK WITH IDIRECT PRODUCTS

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

NORTH AMERICA

CANADA

TELESAT SIGNS CONTRACT WITH NEWWAVE BROADBAND

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

UNITED STATES

CAPROCK PROVIDES DISASTER RECOVERY COMMUNICATION PACKAGES

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

EDUCATIONAL MEDIA FOUNDATION ORDERS TUNER CARDS FROM WEGENER

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

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

VIASAT GETS US\$ 7 MILLION ORDER FROM SPAWAR

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

CAPROCK LAUNCHES MAP-BASED TRACKING SERVICE

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

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

WAVESTREAM ORDERS MATCHBOX AMPLIFIERS FROM TCS

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

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

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

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

VIASAT RECEIVES APPROVAL FOR TERMINAL

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

SPACENET TEAMS UP WITH GLOBECOMM FOR SATELLITE SERVICES

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

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

NORSAT AWARDED DEPARTMENT OF DEFENSE CONTRACTS

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

LATIN AMERICA

COSTA RICA

ICE DEPLOYS GILAT SKYEDGE BROADBAND SATELLITE NETWORK

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

HONDURAS

GILAT DEPLOYS SKYEDGE BROADBAND SATELLITE NETWORK

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

MEXICO

CONDUX AWARDS CONTRACT TO CAPROCK

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

ASIA & PACIFIC

3DI TECHNOLOGIES IMPLMENT IDIRECT ACCELERATOR

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



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AFGHANISTAN

TS2 SATELLITE COMPLETES SATELLITE PROJECT FOR US ARMY

TS2 Satellite Technologies has completed the tender documentation for JCC-I/A and a satellite network project for the Marines bases in Afghanistan. The government contract concerns establishing and maintaining full communications in new locations for all soldiers stationed there during next two years. The USA is going to transfer 4,500 Marines from Iraq to Afghanistan as early as at the beginning of 2009. TS2 specializes in providing global satellite communication services in areas with poor telecommunications infrastructure. TS2 communication among the bases is possible thanks to the simultaneous lease of bands on the Intelsat 10-02, Intelsat 901 and ArabSat Badr-4 satellites and it additionally equips its customers with Thuraya and Iridium satellite telephones, which are often the only means of communication in remote locations.

INDIA

VTU INSTALLS VSAT EQUIPMENT

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

TATANET TO OFFER VSAT EQUIPMENT ON LEASE

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

C&W SIGNS MOU WITH BSNL FOR VSAT DEPLOYMENT

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

MIDDLE EAST

CETEL TAKES CAPACITY ON NSS-12 SATELLITE

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

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

PAKISTAN

SUPERNET SIGNS ONLINE DEAL WITH MCB AND MNET

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

AFRICA

AIMS TEAMS UP WITH TCIL FOR E-NETWORK PROJECT

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

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

THALES TO SUPPLY SATELLITE FOR RASCOMSTAR

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

NAMIBIA

MWEB INSTALLS VSAT EARTH STATION

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

NIGERIA

GALAXY TO SET UP BROADBAND NETWORK FOR POST OFFICES

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

LAGOS STATE TO LAUNCH ICT NETWORK

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

TUNISIA

420 VSAT CUSTOMERS IN TUNISIA

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

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

WORLD

KVH ENHANCES VSAT BROADBAND SERVICE

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

ASC RECEIVES APPROVAL FOR KU-BAND ANTENNA

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

STRATOS INTRODUCES NEXT GENERATION AMOSCONNECT

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

GILAT AND O3B TO LAUNCH NEW SATELLITE TERMINALS

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

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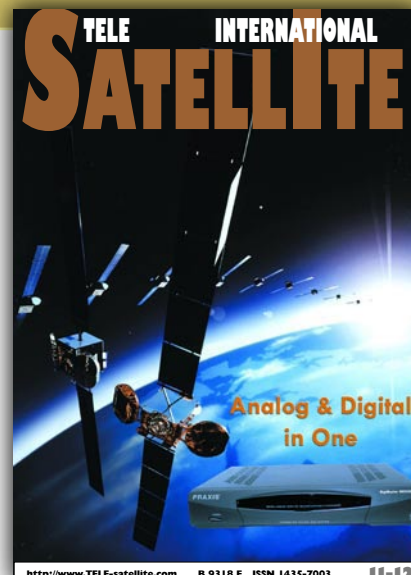
Edited by
Alexander Wiese

Vortec VS-9700

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

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Issue 12/1998



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

X-SAT CDTV 350

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



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

SRDA 5101

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



AUSL 40 & AUSS 40

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



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



KWS AMA 210S

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

An umbrella for LNBs

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

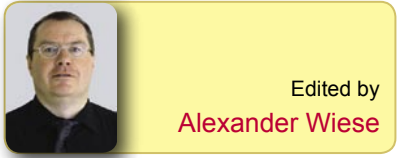


“All of a sudden their receiver tuned into a station from Earth... and they forgot their oxygen would run out in 1 hour...”

Want More? Free Time Travel 10 Years Back:

Read Full Magazine TELE-satellite 12/1998 Here:

<http://magazine.TELE-satellite.com/vintage/TELE-satellite-9812-deu-eng.pdf>



Edited by Alexander Wiese

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

Satelliten-Empfang

MINI SAT-EMPFAANG

Die 60er kommen

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

Äußerlich ist kein Unterschied mehr festzuerkennen, ab nur im Empfänger. Die D-MAC-Technik, also die DVB-Programmempfang, werden oder speziell in hochfrequenten Techniken über den TELECOM-Satelliten ausgetragene TV-Programme empfangen werden.

Die Rosenheimer KATHREIN-Werke haben Sortiment an Empfangsantennen für den Satellitenempfang entwickelt. Die Serie besteht aus einem 60 cm Aluminium Spiegel und einem angepassten, rauschreduzierenden Downconverter für den 12,5 GHz Bereich.



Wie bei KATHREIN schon seit Jahren die Empfangsantennen üblich, ist auch der Spiegel so konstruiert, dass er von einem Monteur allein installiert werden kann. Die Befestigungsbracketten sind unverfälscht und unverfälscht aufgesteckt, eine Antennenkabel, die man zu schützen kann, wenn man die Wellenleiter schon einmal hat betriebsbereit.

Der 60 cm Spiegel für den TELECOM-Empfang von KATHREIN ist hier auf einem Balken befestigt. Foto: TELE-satellite / Klaus Weichberger

Ein Suchscheinwerfer ist jedem Spiegel beiliegend, hilft, die vier Schrauben an der Innenseite des Spiegels auf seiner Position zu halten. Auch der in verschiedenen Größen verstärkte Downconverter wird mit einer Suchscheinwerfer beiliegend. Ebenso einfach lässt sich der TELECOM-Downconverter bei Bedarf gegen einen DVB-Converter austauschen.

Der Befestigungsarm des Converters ist bereits fertig Werk so exakt abgepasst, dass er sich ohne weiteres an jeder beliebigen Position montieren lässt. Die Höhe beider Seiten des Flügels ist so abgepasst, dass die Antenne in jedem Winkel einstellbar ist. Die Höhe beider Seiten des Flügels ist so abgepasst, dass die Antenne in jedem Winkel einstellbar ist.

Die Verwendung eines sehr guten Fernsehens liefert den besten Empfang. (Vom oben nach unten: Übertragungsantenne, für die Suche, TV-Programm, Le-Cine, Unterhaltungsprogramm, MFC, und schließlich sein eigenes Übertragungsprogramm).

Foto: TELE-SATELLIT/RAW

20 Years Ago

Travel into the Past TELE-satellite Magazine Issue 11/1987

Europe's Satellites in 1987

Hier in TELE-satellite die aktualisierte, redigierten Schichten Tabellen für Europa

| Bezeichnung | Orbit | Wellenlänge | Bandbreite | Modulation | Code | Service |
|-------------|---------|-------------|------------|------------|-------|-----------|
| ARTEMIS 1 | 19.2° E | 10.7 GHz | 36 MHz | QPSK | 11111 | TV, Radio |
| ARTEMIS 2 | 19.2° E | 10.7 GHz | 36 MHz | QPSK | 11111 | TV, Radio |
| ARTEMIS 3 | 19.2° E | 10.7 GHz | 36 MHz | QPSK | 11111 | TV, Radio |
| ARTEMIS 4 | 19.2° E | 10.7 GHz | 36 MHz | QPSK | 11111 | TV, Radio |
| ARTEMIS 5 | 19.2° E | 10.7 GHz | 36 MHz | QPSK | 11111 | TV, Radio |

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| ARTEMIS 5 | 19.2° E | 10.7 GHz | 36 MHz | QPSK | 11111 | TV, Radio |

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

Satelliten-Empfang

SAT IM OSTEN

Der Äther Zorro

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

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

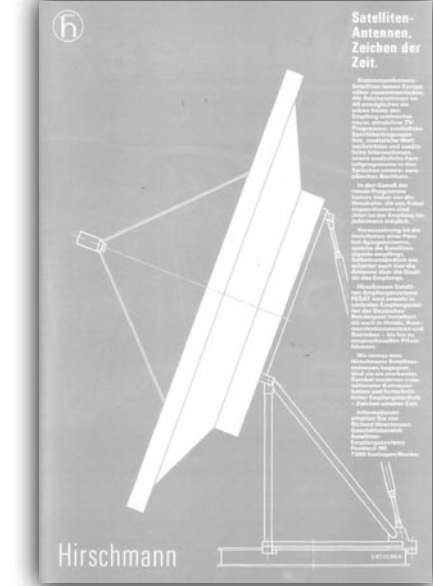
Das behindert die Jugoslawen genauso wie Bewohner anderer Gegenden, um ein eigenes Empfangsgerät zu bekommen. Programme teils aus dem Ausland, teils aus dem eigenen Land, sind bereits vor Jahren mit den ersten Empfangsgeräten für die Satellitenempfang in Jugoslawien etabliert, die sogar im Export eindrucksvolle Erfolge verzeichnen konnten. Eine der Firmen, die Metallwerke in Titograd, die sich spezialisiert auf die Herstellung von 50.000 und 70.000 Spiegel jährlich in die USA.



ZORO SPLITSKOG ETERA

Die Idee, ein Satellitenprogramm retransmitieren, bezieht sich in Jugoslawien noch in seiner Kindheit. Der Funkamateure Goran Franc, YU 2 ZOR, zusammen mit seinem Freundes baute er sich eine Satellitenempfangsstation auf einem Hügel seiner Heimatstadt Split und strahlte die empfangenen Programme über normale VHF-Frequenzen wieder aus. Natürlich wurde die jugoslawische Funkübertragung SLIK nach und nach beschränkt, die Anlage der Betreiber wurde dadurch nur kurz angeschaltet. Nur wenige Wochen später wurde die Anlage wieder eingeschaltet. Die Dämpfung jedoch schalteten sie sich in die Rückleitung der USA, die die FA-Cap-Split ins Ausland übertrug.

Die Symptome unter der Bevölkerung war groß, denn die Übertragung von Fußballspielen ist in Jugoslawien ein ständiges Ereignis. Die Clubs verlangen für die TV-Übertragung zu hohen Gebühren, um die Einnahmeverluste durch weitgehende Zuschauer zurückzuführen. So werden zwar viele Spiele über den TV-Kanal übertragen, werden aber nicht über den Export erfolgreich sein. Die Firma ITIO, die durch die Firma PTT Jugoslawien, in deren Angebot sich auch ein Suchscheinwerfer befindet. Die Firma ISKRA trägt sich sogar mit dem Gedanken, ein eigenes Satelliten-Rezeivier zu produzieren. Auf der diesjährigen Messe '73 VIDEO SHOW' in Frühjahr in Zagreb waren die jugoslawischen Sat-TV-Hersteller vertreten.



Hirschmann

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www.cstb.ru



- **3 - 5 March 2009: CABSAT 2009**

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



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

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



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

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

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

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



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

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



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

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



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

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



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

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Technology Exhibition & Conference
Singapore Expo, 1 Expo Drive, Singapore 486150
www.communicasia.com



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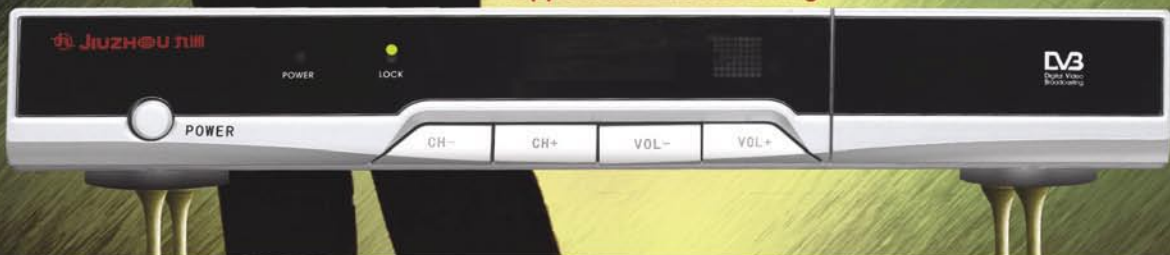
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Fax: +86-755-2671 5408
E-mail: hxy mar@jiuzhou.com.cn
Website: www.jiuzhou.com.cn