

SATELIT

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Laporan Uji
SV-360 Elite PVR
Receiver PVR
yang Mudah Digunakan

Laporan Uji 
INFOSAT V055
Antena C Band
yang Ringan

Laporan Perusahaan
40 Tahun Spaun
Pabrikan Asesosis Berkuali-
tas Tinggi 

Laporan DX-er
Pengalaman Penerimaan
Menjelajahi Ka Band dalam
rentang 20 GHz

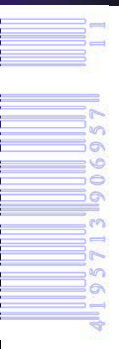


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TOPFIELD®

TF7700HSCI - PVR HDTV yang Elegan

TELE SATELLITE
AWARD & BROADBAND
10-11 / 2008





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PVR**

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DivX & mp3 Supported HDMI Audio & Video output

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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



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SatcoDX 12/2008

Dunia Satelit

Pemrograman Database Satelit Seluruh Dunia - Informasi Program

Software V3.12 bid sdx Creator

Daftar Satelit Seluruh Dunia
Seluruh Saluran dan Seluruh Satelit

Eksport Database dalam sdx
Memrogram Receiver yang Kompatibel dengan SatcoDX

Gratis Lampiran TELE-satelit 09/2008

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

DishTrak: Satelit Apa yang Dapat Diterima?

Pencari Saluran: Menemukan Saluran yang Diinginkan

Pembaruan Daftar Online: Pembaruan Internet Kapan Saja Diinginkan

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

Cakupan Satelit: Melihat Wilayah Pancaran Satelit

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

Diproduksi Oleh: Majalah TELE-satelit & Broadband
Hanya Untuk Penggunaan Pribadi dan Perorangan
ISSN 1861-5384
SatcoDX.com

Unduh Peranti Lunak SatcoDX di sini:
www.TELE-satellite.com/cd/0812/bid

Daftar Saluran Lengkap dari setiap satelit dengan seluruh Data Teknis

Menampilkan secara otomatis seluruh Saluran dari Satelit yang bisa Diterima

Pemrograman Otomatis Receiver yang Kompatibel SatcoDX

Pembaharuan Data setiap saat dari Server Utama dan Cadangan

Mencetak Daftar Saluran dengan Gambar Cakupan Satelit dalam format HTML

The screenshots show the following features:

- Channel List:** A table with columns for Position Code and Satellite, Type, Ch, Freq, P, Channel Name, Coverage, and a list of channels like '3150 PANAMSAT 1R (315.0E - 45.0W)'.
- Map:** A world map with a satellite location marker and a 'Please click on the map to select your location' prompt.
- Receiver Settings:** A window for 'Program Receiver' with fields for 'SatcoDX Industry Standard Protocol', 'Send Port', 'Send Rate', and 'Flow Control'.
- Database Update:** A window showing 'Database Update' progress for 'World of Satellites II'.
- Channel Details:** A detailed view of '3150 PANAMSAT 1R (315.0E - 45.0W)' with a table of frequencies and coverage.
- System Status:** A dashboard showing 'SatcoDX Main Server' status for various channels (1-10).
- Connection:** A window for 'Performing the update' with fields for IP/Address, Port, Username, and Password.



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satelitní měřič

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Diamond line
Konvertory GT-SAT.
Za málo peněz hodné
muziky!

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Zázračná krabička pro
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a rádia

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Die Stärken von GT-SAT
geben Power

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Un Nuevo Medidor

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RUS Крупнейший в мире спутниковый журнал # 206

TELE **САТЕЛЛАЙТ** & BROADBAND 09-10 2008

Тестируем
**globalinvacom
Stacker/De-Stacker**
Используйте один
кабель вместо двух

Тестируем
SatCatcher
дивительный

Тестируем
**Diamond line
Конвертеры GT-SAT:**
Вы получите больше
возможностей за те же деньги

Тестируем
Imperial DB 1 CI HDMI
Потрясающий приёмник для
любителей спутникового приёма и
любителей спутникового радио

Тестируем
Venus 1.8m Dish
Ветроустойчивая легко
монтируемая антенна заводского
изготовления специально для Вас

Тестируем
AB IPBOX 9000HD Plus

ab-com HDTV **SATELLITE** AWARD 08-09/2008
Quality TV on DVB-S/DVB-S2/DVB-C/DVB-T
www.abipbox.com

Читайте журнал ТЕЛЕ-сателлайт он-лайн:
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SVE Världens största satellittidning # 206

TELE **SATELLIT** & BROADBAND 09-10 2008

Testrapport
**globalinvacom
Stacker/De-Stacker**
Använd en kabel istället
för två

Testrapport
SatCatcher

Testrapport
**Diamond line
GT-SAT LNB:**
Få ut mer för dina pengar

Testrapport
Imperial DB 1 CI HDMI
Mirakelbox för satellitTV
och radio-älskare

Testrapport
Venus 1.8m Dish
Stark och lättmonterad
antenn att plantera i din
trädgård

Testrapport
AB IPBOX 9000HD Plus

ab-com HDTV **SATELLITE** AWARD 08-09/2008
Quality TV on DVB-S/DVB-S2/DVB-C/DVB-T
www.abipbox.com

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TUR Dünyanın En Büyük Uydu Donanımı Dergisi # 206

TELE **SATELLITE** & BROADBAND 09-10 2008

Test
**globalinvacom
Stacker/De-Stacker**
İki yerine bir kablo kullanın

Test
SatCatcher

Test
**Diamond serisi
GT-SAT LNBLer:** Tek
Kuruşunuzu Bile Zıyan Etmeyin!

Test
Imperial DB 1 CI HDMI
Uydu TV ve Radyo Tutkunları
için Harikalar Kutusu

Test
Venus 1.8m Dish
Bahçeniz için Kurulumu
Kolay Güçlü Anten

Test
AB IPBOX 9000HD Plus

ab-com HDTV **SATELLITE** AWARD 08-09/2008
Quality TV on DVB-S/DVB-S2/DVB-C/DVB-T
www.abipbox.com

Uluslararası TELE-satellite Dergisi'ni online okuyun:
<http://magazine.tele-satellite.com/TELE-satellite-0809-tur.pdf>

Technomate

TM-5000 Series with USB PVR & Component

92%
"What Satellite"
Jan 08



- 10,000 Channel Memory
- Component (YPbPr) Output
- Very Fast & Detailed Blind Search
- USB 2.0 for Software Download/Upload, MP3 & JPEG Playback
- Record/Playback FTA Channels by USB
- Super Sensitive Tuner

TM-5200 D USB
Free-To-Air Satellite Receiver

TM-5300 D+ USB
Built-in Smart Card Reader

TM-5400 CI+ USB
Card Reader + Common Interface

TM-5600 CI USB
Common Interface Slot

TM-6000 Series High Definition USB PVR



- 10,000 Channels
- Record Scrambled/FTA Channels by USB
- USB 2.0 for Software Download/Upload, MP3 & JPEG Playback
- MPEG-4 & H.264 (1080i/720p/576p/576i)
- 1 Smart Card Reader & 2 CI

TM-6800 HD
DVB-S/S2 Satellite

TM-6900 HD COMBO
DVB-S/S2 Satellite & DVB-T Terrestrial

TM-3000 Series

TM-3500 D+ USB:



- 6,000 Channels
- Timeshift
- Built-in Smart Card Reader
- Record Scrambled/FTA Channels by USB
- Record 1 Channel and watch another at the same time! (on same TP)

TM-3100 D
Free-To-Air Satellite Receiver

TM-3200 D+
Built-in Smart Card Reader

TM-3300 2CA
2 Card Readers

TM-3400 CI+
Card Reader + Common Interface



Be DIVX

NOVA 3000

USB PVR with DivX

- PVR ready via USB for external HDD & SD memory card
- Game from the web available
- DivX file play available
- Music & Photo store and play available
- MPEG-2 DVB compliant
- Video decoding : MPEG-2 MP@ML
- Audio decoding : MPEG Layer I & II
- SCARTS, S/PDIF, S-VHS, RCA output



EpiValley

DAFTAR ISI

TOPFIELD TF7700HSCI
Digital Satellite Receiver for SDTV/HDTV in DVBS and DVBS228



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Pembaca Yang Budiman,



Untuk pertama kalinya pelanggan TELE-satellite menerima CD-ROM 'SatcoDX Suite' dalam edisi ini. CD ini berisi peranti lunak yang kompatibel dengan tabel satelit dan menjadi dasar bagi 'SatcoDX Updater' yang memuat database SatcoDX lengkap di komputer Anda dalam interval satu jam. Beberapa aplikasi 'SatcoDX Suite' memuat database secara langsung, yang lainnya memungkinkan untuk menambahkan data secara manual.

Seluruh aplikasi 'SatcoDX Suite' dioptimasi untuk database SatcoDX. Mendapatkan database yang terkini di ujung jari Anda merupakan tambahan yang berharga untuk peranti lunak ini. Tidak diperlukan lagi waktu lama untuk memperbarui daftar satelit secara manual atau harus melihat daftar dari berbagai sumber yang ada. Tidak ada daftar satelit lain yang diperbarui setiap jam, yang berarti hanya tabel SatcoDX yang tetap terkini, setiap saat.

Salah satu fitur khusus dari 'SatcoDX Updater' adalah file 'SatcoDX-all-transponders.csv'. File ini mendaftarkan seluruh satelit dengan transpondernya dan cara ini membuatnya menjadi file dasar yang ideal untuk receiver satelit. File ini tidak hanya diperbarui setiap jam, namun dalam file ini juga terdapat PID untuk TID (identifikasi transponder) dan NID (identifikasi jaringan) serta standar modulasi DVB-S atau DVB-S2. Dengan

adanya informasi ini, file tersebut menjadi pilihan mudah untuk mendefinisikan database receiver. Tentu saja 'SatcoDX Updater' dapat memberikan tabel satelit dalam format csv, serta xml atau sdx.

Perlu diketahui, tidak semuanya dalam daftar satelit SatcoDX telah bekerja dengan sempurna, namun setiap masalah yang ada akan ditangani dengan segera. Jika Anda ingin berkontribusi membuat SatcoDX semakin baik dan lebih akurat dan memiliki stasiun penerimaan Anda, maka dapat dilihat di situs www.SatcoDX.com/autoscan untuk informasi lebih lanjut.

Nikmatilah peranti lunak 'SatcoDX Suite'. Dua Edisi mendatang akan menyertakan suite edisi selanjutnya, sedangkan edisi setelah ini akan menyertakan CD-ROM 'World of Satellites' SatcoDX – silahkan lihat tinjauannya di halaman 114.

**Salam,
Alexander Wiese**

N.B.: Stasiun Radio favorit saya bulan ini adalah 'Club Asia' dari London (11,222 EUROBIRD 1 di 28,5° BT), yang memutar lagu-lagu terlaris India dan Pakistan. Saya sangat menyukai jingle yang menyatakan "Dari mana Anda ketika pertama kali mendengar ini", diikuti dengan lagu pop klasik India.

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IKLAN

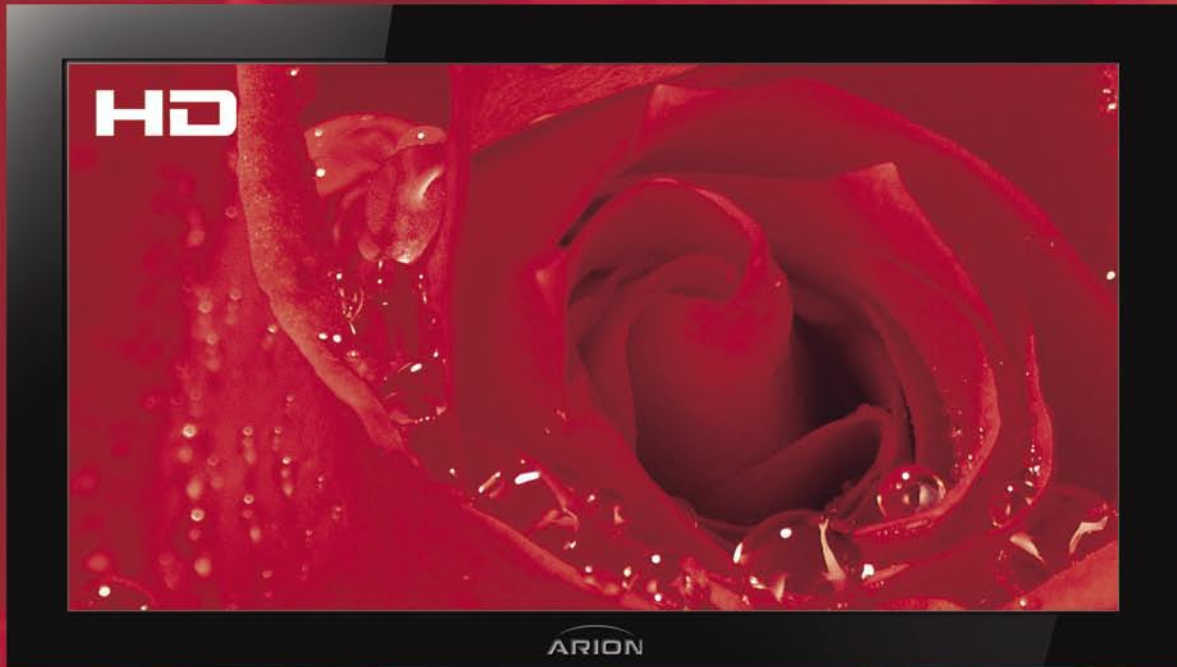
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12-16 September, 2008
 Rai Amsterdam, the Netherlands
 Hall 12E / Booth No. A31



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

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

High Definition Digital Satellite Receiver ARION AF-4000HDCI



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ARION Technology Inc. Tel +82-31-361-3000 / Fax +82-31-361-3099 / e-mail info@arion.co.kr

NEW TECHNOLOGIES – NOW ON STOCK

We are official **HUMAX** distributor

HDTV Receiver Selection

HUMAX

PR-HD 1000 / PR-HD 1000 C



HDTV for satellite and cable reception

- Suitable for Premiere and Premiere HD
- MPEG4 / MPEG2 Technology
- opt. out for Dolby Surround Sound
- Nagravision embedded
- HDMI (with HDCP)
- 2 x CI Slots
- 2 x Scart

HUMAX

iCORD



Twin HDTV PVR Receiver

- Recording 4 channels whilst watching a live tv or Play-back
- Time shifted recording for 2 hours
- Integrated 160, 320 or 500 GB HDD
- 1080i, 720p, 576p, 576i video resolution
- Audio decoding: Dolby AC-3 (Dolby Digital)
- 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
- Dual Recording supported
- DivX codec embedded
- 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

TOPFIELD

TF 6500T HDMI **NEW**



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

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

Measuring Instruments



MEGALOOK

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

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



ALSO AVAILABLE:

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

DIGISAT PRO ACCU



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

ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB



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

- Frequency range of 47-862 Mhz
- Shows the signal strength in 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

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!

ALPS

CIBERTINI

PREMIERE

Inverto

MTU

MICROELECTRONICS TECHNOLOGY INC.

Stab

NETWORK streaming clients

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

TOPFIELD
TF-6000 PVR ES/WS



- Digital Satellit PVR with HDMI
- Wireless LAN with Fully DVB-S compliant
 - Two tuners with Dual Decoding (PIP)
 - HDMI Video/Audio Output
 - Integrated 160, 320 or 500 GB HDD
 - 5000 TV & radio services programmable

PCMCIA-Modules

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



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

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

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

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.



UNICABLE TECHNOLOGY

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



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

GIRTE

Flat-Dishes **NEW**

SELSAT H 10 D



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

MAXIMUM Flat-1

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



Multifocus Dish

MAXIMUM

E-85 Multifocus 48° Dish



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

Balcony mounting parts

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



120 cm length – Ø 6 cm

ALSO AVAILABLE:

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



Edited by
Branislav Pekic

EUROPE

EUROPE

20 PERCENT OF EUROPEAN HOMES WITH HD BY 2012

New research from media analyst Screen Digest suggests that by 2012, only 20% of all European households with high definition (HD) displays will actually be watching in HD. By the end of last year 18% of the 165 million European TV households were equipped with HD displays, although less than 1% of these were fully HD-enabled (equipped with an HD set-top box and an HD subscription enabling them to watch HD broadcasts). The report identifies three "critical success factors" necessary for the technology to really take off in the region: penetration of HD displays, supply of HD content and the availability of HD broadcast platforms.

WORLDSPACE PARTNERS WITH STM FOR DIGITAL RADIO

STMicroelectronics has signed an agreement with WorldSpace Satellite Radio to develop, manufacture and distribute chips for European Satellite Digital Radio (ESDR) receivers planned for a WorldSpace pan-European and Middle East service offering, starting with Italy in 2009. The agreement between WorldSpace and ST is expected to lead to the first fully integrated device for channel decoding in ESDR receivers. ESDR technology enables WorldSpace to employ a hybrid satellite-terrestrial network.

AUSTRIA

TELEKOM AUSTRIA PASSES 50.000 AONTV SUBSCRIBERS

Telekom Austria has now reached 50,000 customers for its "AonTV" IPTV service. The operator is offering a basic package on AonTV for free for six months to subscribers who sign up before the end of September, as well as the set-top box for a discounted price of EUR 29.90.

BALTICS

BALTICS EYE IPTV GROWTH

The Baltic countries will enjoy significant growth in development of IPTV over the next five years, says a report released by industry analysts Screen Digest. According to the report, Estonia is set to lead the growth, as its Baltica DigiTV, which already occupies a significant proportion of the local pay TV market, is expected to reach 20% of Estonia's households by 2012.

VIGINTA OPTS FOR WIDEVINE CYPHER PROTECTION

Lithuanian telecommunications services provider Viginta has selected downloadable content protection from Widevine to secure content delivered over DTT, hybrid QAM (cable) and IPTV networks. Widevine Cypher will be used to manage the delivery of broadcast and video on demand content over its multiple networks delivery systems, which include MMDS, fibre rich Metro Ethernet and Hybrid Fibre Coaxial networks, to a range of consumer devices.

TEO ARRIVES TO 28.000 IPTV SUBSCRIBERS

Lithuanian operator TEO has released its results for the first half of this year and states that it now

has 28,000 subscribers for its IPTV service, up from 25,000 at the end of the first quarter of 2008.

BELARUS

BELTELECOM LAUNCHES IPTV SERVICE IN MINSK

Beltelecom has launched an IPTV service in Minsk and the new service will be deployed in other parts of the Republic from this autumn. General Director, Kanstantsin Tsikar, said that Beltelecom plans to charge a one-off payment of BYR 30,000 (USD 14) for IPTV subscribers, plus a monthly rental of BYR40,000. Beltelecom's IPTV offering currently carries 20 TV channels.

CZECH REPUBLIC

O2 ARRIVES CLOSE TO 100.000 IPTV SUBSCRIBERS

Telefónica O2 reached 98,000 subscribers for its O2 TV IPTV service by the end of the first half of this year, up from 87,173 at the end of March. Revenues from broadband-based services (ADSL, IPTV and content) rose 13.9% in the first half of this year relative to the same period of last year to reach CZK2 billion (USD133.5 million).

FRANCE

HD LICENSES AWARDED

French regulatory body Conseil Supérieur de l'Audiovisuel (CSA) has allocated an HDTV channel licence to Canal+ its pay-TV offering on DTT. CSA previously awarded free-to-air HD licences to TF1, M6, France 2 and Arte. Canal+ was the only payTV channel to apply for the HDTV licence.

FRANCE TELECOM IPTV SUBSCRIBERS UP 76%

France Telecom had a total of 1.54 million IPTV subscribers in Europe by the end of the first half of 2008, up 76% from 872,000 one year previously. The operator had 1.389 million IPTV subscribers in France alone, an increase of 65.9% by the same comparison.

GERMANY

DEUTSCHE TELEKOM SIGNS IPTV DEAL WITH MTV

Deutsche Telekom has signed a deal with MTV Networks Germany to offer the latter's content in the VOD library of the operator's IPTV service T-Home Entertain. Programmes cost EUR 0.99 for a 24-hour rental. T-Home Entertain customers will have unlimited access to all available content from Nickelodeon with a subscription to the 'Kids Selection' package, costing EUR 4.99 per month.

LIECHTENSTEIN

ERICSSON TO UPDATE TELECOM LIECHTENSTEIN'S NETWORK

Ericsson has signed an agreement with Telecom Liechtenstein to upgrade and expand their ADSL network with the new VDSL2 technology. VDSL2, based on Ericsson's advanced EDA1200 product, enables Telecom Liechtenstein wide deployment of multiparty services e.g. voice, video and data as well as HDTV, IPTV, Video on Demand, high speed Internet access and interactive gaming. Network deployment and integration has already started.

POLAND

TP TO LAUNCH ORANGE TV SERVICE

Poland will be the next country to get an Orange TV service under plans unveiled by Telekomunikacja Polska (TP), majority-owned by France Telecom. TP, which already operates the Orange

mobile network in Poland, has now acquired rights to extend its usage of the brand across TV, internet access and other activities. TP said it would roll out the service in Poland within the next 12 months.

PORTUGAL

MEO IPTV SERVICE REACHES 100.000 SUBSCRIBERS

Portugal Telecom said its new Meo IPTV and satellite pay-TV service has reached 100,000 subscribers since its launch in April. The operator said Meo subscribers account for 15 per cent of its ADSL clients, adding that net subscriber additions in the second quarter have totalled over 53,000.

ROMANIA

ROMTELECOM TO LAUNCH IPTV TRIAL

RomTelecom will begin IPTV trials later this year, according to its TV business manager Mirosław Smyk. The Romanian incumbent already offers pay-TV via a DTH platform with more than 500,000 subscribers.

RUSSIA

SISTEMA CHOOSES NDS FOR IPTV AND MOBILE TV

Sistema Mass Media (SMM) has selected the NDS Unified Headend to manage and protect TV content delivery to subscribers across both IP and mobile networks. The NDS Unified Headend integrates CA, DRM and third party applications, allowing operators to deliver secure broadcast and VOD services to a variety of devices - set-top boxes, mobile phones, PCs, Portable Media Players and digital video recorders.

SCANDINAVIA

VERIMATRIX SECURES TELIASONERA'S IPTV SERVICE

TeliaSonera has deployed the Verimatrix Video Content Authority System (VCAS) for the tier one telecommunications operator's successful IPTV services in the Nordic region, Estonia and Lithuania. Telia Digital-TV, which was one of the first IPTV services in Europe to launch in 2005, offers subscribers 70 channels such as Discovery and the Disney Channel and a 24-hour on-demand library of movies.

TELIASONERA ARRIVES TO 430.000 IPTV SUBSCRIBERS

TeliaSonera reached nearly 430,000 subscribers for its IPTV service across all markets by the end of the second quarter of this year, with total pay-TV customers including cable and satellite operations reaching a total of 816,000. The telco had 320,000 IPTV subscribers in Sweden alone by the end of the second quarter of this year, adding just 2,000 in the period, this gives a year on year increase of a respectable 162,000 customers. The number of IPTV subscribers in Norway alone doubled to 8,000 between April and June, while in Lithuania the figure rose by 10,000 to reach 35,000, and in Estonia the company added 4,000 subscribers to reach 64,000.

THOMSON TEAMS UP WITH TELENOR FOR IPTV DEPLOYMENT

Telenor has selected Thomson to provide services and hardware to assist it to deploy IPTV services in Norway, Sweden and Denmark. Thomson will providing Telenor with its SmartVision video services platform, which incorporates middleware, video on demand (VoD) servers and two ranges of IP set top boxes (the DBI2210 and the DBI8500 with integrated hard drive for personal video

recording). Additionally, Thomson is integrating a conditional access content protection application from Conax.

SLOVENIA

TELEKOM SLOVENIJE IPTV MARKET LEADER

Telekom Slovenije has seen its share of the national IPTV market fall by three percentage points year on year in the first quarter of 2008 to reach 60.4%, according to a report by the Agency for Post and Electronic Communications (APEK). Alternative operator T2 followed in second place with a gain of just under 1% to reach a 36.3% share of Slovenia's IPTV market, with Amis and Tus Telekom accounting for the remainder.

SPAIN

GREEN LIGHT FOR HISPASAT TAKEOVER

Several Spanish companies including Abertis won permission from the European Commission for a joint venture to control Spanish satellite operator Hispasat. The companies involved, besides Abertis, include SEPI, CDTI, and INTA. Although the Commission said the deal had raised questions about vertical overlaps because Abertis ran terrestrial transmitters for TV stations and also bought satellite capacity, it decided to authorise the deal.

SWITZERLAND

NETSTREAM SELECTS ENTONE FOR IPTV DEPLOYMENT

Swiss ISP Netstream has selected customer premises equipment from US firm Entone for its high-definition IPTV service deployments in the country. Netstream is a provider of managed services and systems integration to a number of operators in Switzerland, and selected Entone's Hydra HD IPTV video gateway and Amulet HD IPTV receiver for the service deployments.

TURKEY

TURKEY PREPARES TWO NEW SATELLITES

Having successfully launched Turksat 3A in June, Turksat is preparing to launch two others, Turksat 4A and 5A. The Turkish satellite operator will decide on the features of Turksat 4A in August and launch it in 2011. Turksat 4A will offer broadcasting services covering the Middle East, Central Asia, South Asia and Africa. Work on 5A will begin in Turkey and will be completely done by Turkish engineers, with plans for a launch in 2013 or 2014.

UNITED KINGDOM

BBC LAUNCHES HD TESTS ON FREEVIEW

The BBC has begun DVB-T2 test transmissions from the Guildford transmitter southwest of London, in preparation for HD on Freeview. This follows the approval by the DVB Project of the DVB-T2 specification and this will be the first time signals compliant with the DVB-T2 specification will be broadcast. DVB-T2 is the next generation digital terrestrial transmission standard for new HDTV services on Freeview. DVB-T2 can provide more capacity and this will be essential for HDTV services to be launched on Freeview, currently planned for the end of 2009.

BBC TO LAUNCH UHD TV TRIALS

In conjunction Italian and Japanese public broadcasters RAI and NHK, this September the BBC will begin trials of Ultra High Definition (UHD) TV. UHD, also known as Super Hi-Vision, produces a resolution of 7,680 x 4,320 pixels which is around four times as wide and four times as high as existing High Definition TV. With 4000 Scanning Lines, NHK is promising consumers an experience which feels close enough to reality to make them want to reach out and touch the on-screen action.

BT ENDS FIRST HALF WITH 282.000 IPTV SUBSCRIBERS

British Telecom has signed up 68.000 customers to its pay-TV service BT Vision during the three months to June 30. The company, which launched the IPTV service commercially last summer, ended June with 282.000 BT Vision customers. While customers can sign up to BT Vision without actually taking a monthly subscription, to make the service profitable, BT needs customers to take out regular subscriptions.

NORTH AMERICA

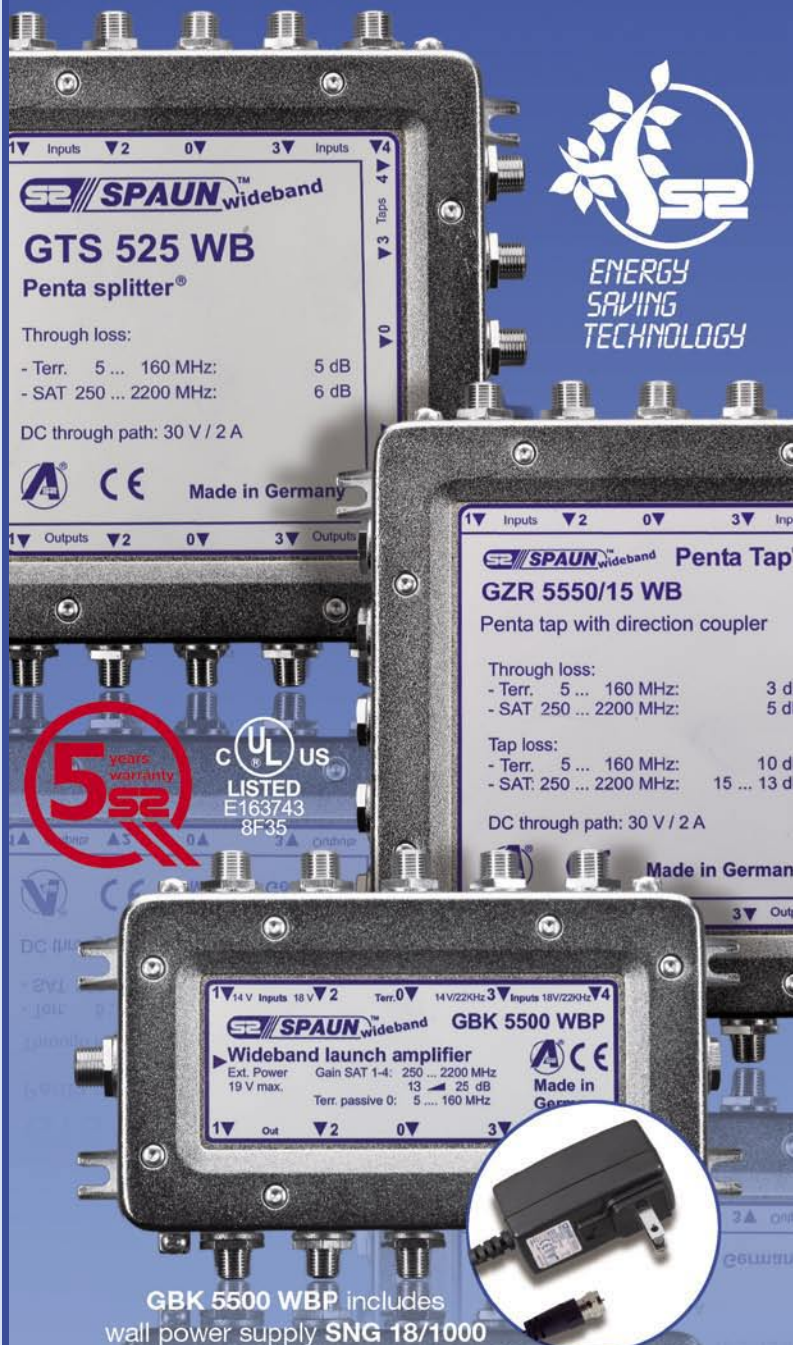
IPTV SUBSCRIBERS TOP 1.8 MILLION IN 2007

The number of IPTV users in the Americas surged to 1.8 million by the end of last year, up 257.1% from 501,000 in December 2006, according to a recent report by iSuppli. The majority of that growth came from

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two leading U.S. telecom operators, AT&T and Verizon, which continued to expand their fiber-optic IPTV networks throughout 2007, and collectively served almost 1.2 million IPTV customers by year's end. This represents growth of 294.9%, from a mere 296,000 subscribers at the end of 2006.

ESPIAL TO ACQUIRE KASENNA

Canadian IPTV middleware vendor Espial Group said it will acquire Kasenna, a competitor based in California, in a USD6.5 million move that will aid consolidation in the fragmented IPTV middleware sector. According to Espial, the combined company will have more than 100 service provider customers supporting about 2.4 million IPTV customers. Kasenna customers include Cavalier Telephone, CenturyTel, Fast-Web, Kentucky Telephone, SaskTel, Tennessee Telephone, Time Warner Cable, Charter Communications and Knology. The IPTV middleware market also includes companies such as Minerva Networks, Innovate Systems, Quative, Thomson, Nokia Siemens Networks and many others.

CANADA

HDTV SIGNS EXCLUSIVE DEAL WITH SMITHSONIAN NETWORKS

Canadian HD broadcaster High Fidelity HDTV Inc. and Smithsonian Networks of the USA have signed an exclusive programming agreement under which programs from the US service Smithsonian Channel HD will be broadcast on Oasis HD, Equator HD and Treasure HD, three of the all-HD channels operated by High Fidelity in Canada.

UNITED STATES

DISH NETWORKS OFFERS HDTV IN 61 MARKETS

Dish Network said it now offers local HD channels in 61 markets, accounting for 68% of the country. The company will also add local HD in 22 additional markets by the fall, including Albany (NY) and Scranton (Pa). Eric Sahl, a Dish senior vice president, said the company is "aggressively moving forward with plans to reach 100 HD local markets and 100 national HD channels."

MONSTER CABLE OFFERS HDTV TRANSMITTER

Monster Cable will offer a wireless transmitter for HDTV signals that will connect a home theater's TV set with a digital signal box or DVD player. The wireless system is comprised of a receiver that plugs into the HDTV's HDMI port along with a transmitter unit that will hook up with the signal source. Called Monster Digital Express HD, the set-up will also upscale non-HD signals to HD resolution. The system is able to transmit a video signal up to 30 feet away using the ultra-wide-band (UWB) technology from Sigma Designs.

AT&T LAUNCHES HDTV STREAMS

AT&T Inc's U-verse IPTV service has started offering concurrent high-definition (HD) video streams to residential consumers in some markets. Other IPTV services, including Verizon FIOS, already support concurrent HDTV streams, allowing users to view one program in HD, while recording another on a DVR at the same time.

COMCAST TO INTRODUCE DIGITAL BOXES FOR HDTV

Comcast is expected to order up to six million digital converter boxes this year in an effort to create more space for High-Definition channels, according to Multichannel News. Comcast plans to use the digital converter boxes to eliminate the need to transmit analogue signals. The converter boxes will be issued to customers who now own

analogue sets. The operator hopes to switch over 20 per cent of its entire subscriber base to all-digital in 2008. Next year, the cable operator will likely order another 12 million converter boxes to continue its phasing out of analogue signals.

GLOBECAST INVESTS IN HDTV UPGRADES

GlobeCast has completed the next phase of its U.S. HD strategy with the installation of state-of-the-art encoding and converting equipment at its broadcast centre in Culver City, California. Using gear that includes MPEG-2 and MPEG-4 HD decoders as well as the Snell & Wilcox Alchemist Ph.C HD standards converter with motion compensation, GlobeCast can receive and process HD signals into any international format. GlobeCast can also down convert to SD and deliver the signal worldwide using a combination of MPEG-2 and MPEG-4 HD/SD compression. GlobeCast also offers advanced modulation standards such as DVB-S2 to maximize capacity.

IPTV NETWORK SERVICES SELECTS LATENS

IPTV Network Services, a consortium of several IPTV service providers in the state of Utah, has successfully deployed the Latens ECOSystem (ECO) to enable its IPTV offering. Latens ECO provides IPTV Networks with a single platform comprising next generation middleware and Latens' highly regarded Conditional Access for the secure delivery of advanced content services. The affiliates of IPTV Network Services have been offering telecommunications services to over 45,000 residences and businesses in many counties.

VERIZON TO MAKE AVAILABLE 150 HD CHANNELS IN NYC

Verizon Telecom has launched FIOS services with 100 high-definition channels in parts of New York City, announcing the availability of 150 HD channels by the end of this year in sections of New York City and some other areas of the US. FIOS TV service packages start at USD 94.99 per month with 54 free HD channels.

ECHOSTAR XI SATELLITE LAUNCHED

DISH Network Corp's plan to roll out more high-definition video channels received a boost on July 16 after the successful launch of the company's EchoStar XI broadcast satellite. DISH needs to roll out more HD channels to be able to compete with larger rival DirecTV Group, as well as cable and phone companies' video services. DISH said it would add another 17 national HD channels, bringing its total to 100 ahead of its original year-end target. DirecTV has said it will have 150 HD channels by the year-end. DISH also said it would introduce TurboHD, an all-HD programming package.

XM SATELLITE AND SIRIUS COMPLETE MERGER

XM Satellite Radio and Sirius Satellite Radio have completed their long-pending merger. The combined company will use the name Sirius XM Radio Inc and expects cost savings of about USD 400 million in 2009 and to post EBITDA of more than USD 300 million. The new company said it has 18.5 million subscribers

LATIN AMERICA

COLOMBIA

ETB TO LAUNCH IPTV IN MARCH 2009

ETB plans to start tests of an IPTV service in November of this year and launch by March of next year, according to new company CEO Fernando Panesso. He said that the telecom operator will invest COP87 billion (USD51 million) in the roll-out of IPTV in Colombia, despite regula-

tory uncertainties. ETB does not have a pay-TV licence as required by the National Television Commission, but does have a licence to operate IPTV as a value-added service, as directed by the Colombian Communications Ministry.

UNE-EPM LAUNCHES IPTV SERVICE

Une-EPM Telecomunicaciones has launched IPTV services in the capital Bogotá and also Medellín, according to local newspaper La República, becoming the country's first IPTV operator. The service includes 105 video and 50 audio channels, as well as PPV and VOD, with films costing between COP 3.500 (USD 1.95) and COP 4.700. Subscription plans cost COP 90.000 to COP 244.000 per month in Bogotá.

ASIA & PACIFIC

2008 KEY FOR HDTV IN ASIA

Major pay-TV operators in the Asia-Pacific, Middle East and Africa expect to carry more than 340 HD television channels by 2013, up from 32 channels currently, according to a new Euroconsult report commissioned by Malaysian satellite operator Measat. By the end of the year, 70 per cent of the 25 platforms surveyed - including 21 in Asia - expect to be offering HD content, the report found. According to the report, 12 per cent currently offer HD services. The number of HD channels being offered by the platforms is forecast to reach 107 by mid-2009, 226 in 2011, and 341 in 2013. Over the next three to five years, HD will expand from between three and five channels to an average of 15 channels.

AUSTRALIA

FOXTEL INTRODUCES NEW HD STB

Foxtel has rolled out a new service, Foxtel HD+, to old and new customers with five dedicated 24/7 HD channels along with HD movies on demand, powered by a new set-top box - the iQ2. The new digital box has a 320GB hard drive to fit up to 30 hours of HD content and up to 90 hours of standard definition programs. Four tuners are aboard the iQ2. Two enabled at launch will allow for simultaneous recording and viewing, one is reserved for Foxtel On Demand and the fourth is listed by Foxtel to be "enabled in the future". New channels and on-demand HD movies are broadcast in 1080i, except for ESPN HD in 720p.

CHINA

CCTV LAUNCHES TERRESTRIAL HDTV

CCTV's HDTV channel started broadcasting in Shanghai in June, using the national standard single-carrier wave technology developed by Shanghai HDTV and Jiaotong University. Preparation is underway for similar broadcasts in Tianjin, Shenzhen, Qingdao, Shenyang, Qinhuaungdao, and Guangzhou.

CHINA TELECOM WITH 940.000 IPTV SUBSCRIBERS

China Telecom has in excess of 940,000 subscribers for its IPTV service, and expects to pass a million subscribers very soon. The service, provided in cooperation with Shanghai Media Group (SMG), has been available in Shanghai, Jiangsu, Guangdong, Zhejiang and Shaanxi since 2005 and offers broadcast and on-demand content, as well as information services. Rival China Netcom, meanwhile, offers IPTV services in six cities including Beijing, Harbin and Shenyang, with a reported 100,000 subscribers as of May 2008.

ZHONGXING-9 SATELLITE LAUNCHED

China on June 9 launched a French-built communications satellite that was used for live TV broadcast

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of Beijing Olympics in August. The Zhongxing-9 satellite was built by Thales Alenia Space for China Satellite Communications Corporations (Satcom), one of the six basic telecommunications operators in the country under the Ministry of Information Industry.

INDIA

AKSH LAUNCHES IPTV WITHOUT BROADBAND CONNECTION

Aksh Optifibres in association with telecom firm MTNL has launched country's first IPTV service which can be viewed without any high speed broadband connection. The company plans to invest around Rs 150 in its icontrol IPTV platform in Mumbai and Delhi, which would provide more than 100 channels to its customers. It carries all the major popular entertainment channels from the Star and Sony group and sports channels from Neo and Ten Sports. Aksh has also entered with an agreement with telecom giant BSNL and MTNL, aiming for a strong presence in urban and rural areas where the government-controlled telecom firms have vast subscriber base.

BHARTI AIRTEL LAUNCHES IPTV WITHOUT AUTHORISATION

The Information and Broadcasting (I&B) ministry has asked the Department of Telecom (DoT) to initiate action against Bharti Airtel for launching IPTV services without obtaining the requisite approvals. While, Bharti in its response has said it has not launched commercial IPTV services, but was only doing pilots, the I&B ministry has told the DoT that private telcos have not been cleared to offer this service.

MTNL PROVIDES 74 IPTV CHANNELS

MTNL is currently providing as many as 74 channels through their IPTV service, compared to just around 26 free-to-air channels during launch. The company has signed up a deal with Time Broadband Services and its Israeli partner Optibase for developing and handling the content delivery network for its IPTV services. They are currently using Optibase's IPTV MGW 5100 platforms for its digital IPTV head-end operation at the company's network operating centre. Time Broadband is now preparing to deploy IPTV services on both TV & PC delivery.

MINISTRY ACCEPTS IPTV RECOMMENDATIONS

India's Ministry of Information and Broadcasting has accepted recommendations from the Telecoms and Regulatory Authority of India (TRAI) for IPTV, according to local reports. The uplinking/downlinking norms will be amended to enable all broadcasters to provide signals to all distributors of TV channels, including IPTV operators, TRAI has also received a consensus from broadcasters to adopt non-discriminatory price regime on the composition of channel bouquets and the pricing of channels on an a-la-carte and bouquets basis for IPTV services.

INDONESIA

BNS TO DESIGN HD IPTV PLATFORM FOR PT

IP solutions provider BNS has been appointed by Indonesian telecommunications provider PT. Multi Kontrol Nusantara (MKN), a subsidiary company of Bakrie Group, to design and procure a turnkey HD & SD IPTV service platform. BNS's IPTV Service Platform design will enable MKN to deliver high and standard definition video services, including multicast, VOD, Network PVR, Time-Shift-TV, eShopping, games and others.

ISRAEL

SPACECOM TO PURCHASE AMOS 5 SATELLITE

Spacecom Satellite Communications will buy the Amos 5 communications satellite from Russia's JSC Academician MF Reshetnev Informa-

tion Satellite Systems for USD 157 million. The Amos 5 satellite is scheduled for delivery and launch by March 31, 2011, and is due to operate for 15 years. Spacecom can cancel the agreement to buy the Amos 5 up to the launch if the satellite cannot be delivered, if it is found to be flawed during ground tests, or if it is lost after launch.

JAPAN

SKY PERFECT JSAT CONSIDERS HDTV

Sky Perfect JSAT Corp. is exploring the option of expanding its satellite television business by launching a broadcasting-satellite-based digital service in 2011 to complement its communications-satellite TV offerings. In the communications-satellite TV service, the company plans to start offering 12 high-definition TV channels in October. By 2011, the number is expected to be raised to nearly 100, roughly half the firm's communications-satellite TV channels. "We aim to become one of the top high-definition TV broadcasters in the world," said Chairman Masanori Akiyama.

JAPANESE COMPANIES AGREE ON IPTV STANDARDS

Telecoms companies Nippon Telegraph and Telephone (NTT), KDDI and Softbank BB have teamed together with technology vendors including Sony, Matsushita Electric Industrial, Toshiba, Sharp and Hitachi, as well as the country's five major commercial TV broadcasters and public broadcaster NHK. The companies expect to draw up unified IPTV standards and urge local IPTV operators and consumer electronics manufacturers to develop compatible technologies and equipment.

KAZAKHSTAN

KAZSAT-1 LOST

Kazakhstan's sole communications satellite, used by many of the country's TV broadcasters, is out of control due to a computer glitch and is likely to be lost altogether. Kazakhstan launched the Russian-built KazSat-1 satellite in June 2006, the first of four which it aimed to have in orbit by 2020 and which it said would establish the Central Asian country as a global space power. The head of Kazakhstan's National Space Agency, Talgat Musabayev, said the satellite has been out of touch since June 8 and could no longer be controlled from a space command centre in neighbouring Russia.

MALAYSIA

TELEKOM MALAYSIA TO LAUNCH IPTV IN 2009

Telekom Malaysia is to launch IPTV commercially in the second quarter of next year, as part of its drive to increase the usage of broadband services in the country, the company's CEO Datuk Zamzam-zairani has said. Telekom Malaysia has reportedly been conducting trials in 400 homes in the Klang Valley, as well as in Kulim and Penang. When asked about channel offerings on the new service, the executive said that this is still in development.

NEW ZEALAND

SKY TV TO INVEST USD 17.5 MILLION IN HDTV

SKY TV, which is controlled by Rupert Murdoch's News Corporation, will spend \$NZ22 million (USD17.5 million) over two years on high-definition broadcasts. The broadcaster said it aimed to get 80,000 set-top boxes installed. The new high-definition set-top boxes would cost \$NZ599, or may be rented for \$NZ15 a month. Sky TV's HD content is via a My Sky HDi set-top box that is identical to that offered by Foxtel. Sky TV subscribers also have access to five channels; Sky Sport 1 and 2, Sky Movies, Sky Movies Greats and free-to-air channel TV3.

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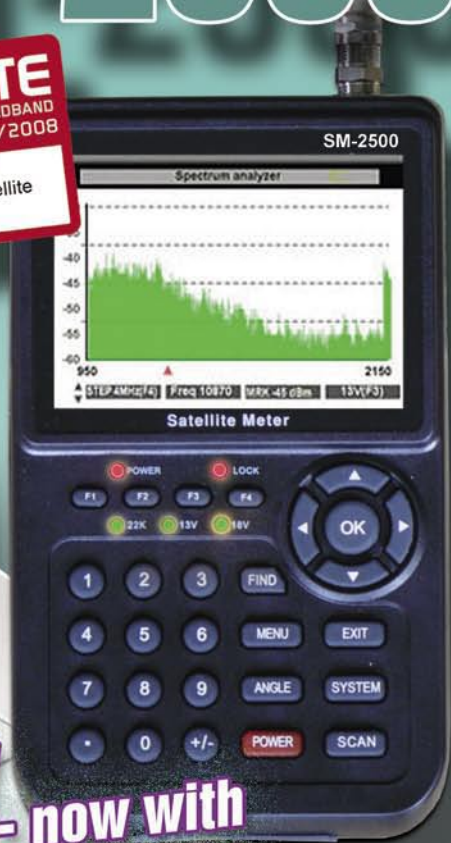
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SINGAPORE

MIO TV TO AIR CONTENT FROM HOLLYWOOD STUDIOS

Disney-ABC, Warner Bros. and 20th Century Fox will air more than 50 series on Singapore's Mio TV IPTV platform in a first-of-its-kind syndication deal with the country's dominant telecom, SingTel. The exclusive deal with the one-year-old platform will see series air as early as 24 hours after their U.S. broadcast. Financial terms of the licensing agreements were not disclosed. The exclusive on-demand window will last five to six months.

STARHUB TO ADD FIVE HDTV CHANNELS

Pay-TV operator StarHub plans to be offering five high-definition channels on its digital cable platform by the end of this year, including a sports service. HD5 and Sports HD have already joined the existing National Geographic Channel HD and Discovery HD. A fifth high-definition channel will be up and running by year end.

SOUTH KOREA

CABLE OPERATORS CRITICISE IPTV ACT

Cable TV operators have protested against the IPTV Act prepared by the Korea Communications Commission, saying that it is disappointing to cable TV and the entire broadcasting industry as the Act is biased in favor of certain communications operators, especially KT. The KCC's IPTV Act confirms accounting separation that all backbone operators are subject to is enough to prevent them from transferring their dominating power. In addition, the IPTV act also includes PAR or Program Access Rule that cable networks have opposed, citing that the rule might cause infringement on content providers' property rights and disrupt the nation's content industry, the companies said.

THREE IPTV OPERATORS SELECTED FOR PILOT PROJECT

Korea Communications Commission has selected KT Consortium, Hanaro Consortium and LG Dacom Consortium for a pilot project of convergence of broadcasting and telecommunication. The selected consortium, run with 3 billion won of the public and private matching fund, plans to provide contents owned by national and public institutions to subscribers so that they can see the contents at home through IPTV. It will kick off pilot service for 600 households in December.

SRI LANKA

SRI LANKA TELECOM PICKS UTSTARCOM IPTV SOLUTION

UTStarcom has signed a contract with Just In Time Holdings to supply its RollingStream end-to-end IPTV solution to Sri Lanka Telecom (SLT). SLT will use the RollingStream platform to bring IPTV services to its growing customer base throughout Sri Lanka. SLT, with more than 87 per cent market share and a subscriber base of more than 1.300.000 customers, expects to grow its residential and commercial business through its increased triple play capabilities now available with this IPTV deployment.

AFRICA

SOUTH AFRICA

MULTICHOICE LAUNCHES HDTV

MultiChoice launched HDTV in the South African market in July, the first of its kind in Africa. The Beijing Olympics were the first event to broadcast in HD format at the beginning of August. A new M-Net HD channel will launch at the end of August when HD PVR decoders will go on sale at major retail stores throughout the country at the price of R2499.00 (for a limited period only). To view Dstv channels in HD, a customer will need a Dstv decoder.

WORLD

AFN TO GO HD BY 2014

American Forces Network won't convert its satellite broadcast to a system that's compatible with high-definition television until 2013 for Pacific viewers and 2014 for viewers in Europe, according to Larry Sichter, Defense Media Center public affairs officer. AFN's current digital compression system packs 10 channels into a slither of satellite broadband. AFN will announce and publicize the exact details of its conversion plans sometime within the next 12 to 18 months.

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- + 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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Matching LNB and Dish Type

Jacek Pawlowski

While satellite enthusiasts in Europe are very familiar with offset dishes, their counterparts in Asia may be more familiar with primary focus antennae. Both antenna types require different LNB's. LNB's differ in the reception band: C/ Ku/S-Band and the polarization: linear or circular. You have to match the band and polarization with the signal you want to receive but you still can receive it with either a primary focus or an offset dish.

LNB noise performance may be expressed either as noise figure (dB) or noise temperature (K). Those values are correlated - knowing one of them, you may calculate the other. This not a real difference but something like expressing the speed in km/h or knots.

But there is yet another parameter that you need to know when building your reception system. This is the f/D ratio of your dish and the f/D your LNB is design for. f/D is a parameter telling you what part of the paraboloid has been "cut off" to form a primary focus dish. As you can see in Figure 1, D is a diameter of a dish and f is the focal length. Typically, the primary dishes are manufactured with the $f/D = 0.28 \sim 0.42$. To achieve the top performance, your LNB should have the same f/D as your dish.

That's because the LNB should have a proper viewing angle (feedhorn beamwidth) to "see" the whole reflector but not more. In other words, the f/D parameter defines the viewing angle of the feedhorn.

There is a picturesque mathematical formula that enables us to calculate this angle for a primary focus dish:

$$\theta = 2 \cdot \arctan \left(\frac{8 \cdot \frac{f}{D}}{16 \frac{f^2}{D^2} - 1} \right)$$

If you do not have your calculator handy, you may refer to the table we prepared for you! (table)

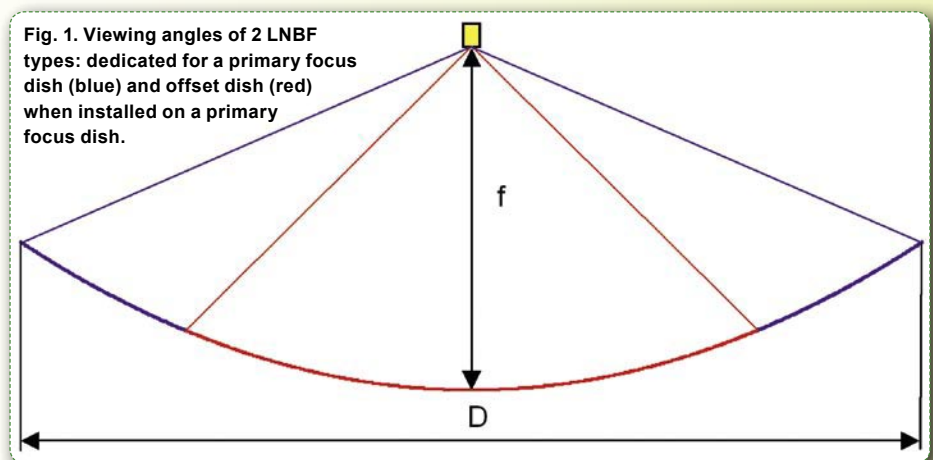
And now, probably the most important fact: the LNB's dedicated for offset dishes

f/D ratio	Feedhorn beamwidth [°]
0.28	167
0.30	159
0.32	152
0.34	145
0.36	139
0.38	133
0.40	128
0.42	123

will see only a portion of the reflector. The output signal will be much smaller.

How much smaller? In our example ($f/D=0.38$) the LNB will see only 58% of the reflector diameter. For example, if the actual dish has a diameter 165 cm, we can expect a performance typical for a 96 cm dish. You will get antenna gain and directional characteristics equal to 96 cm primary focus dish. Big difference, isn't it?

So, perhaps we can win something installing a prime focus LNB on an offset dish? Absolutely not! See Figure 2. Such an LNB will see much more than a reflector only and that means it will pick up a lot of noise from the environment. The reception will be hardly possible.

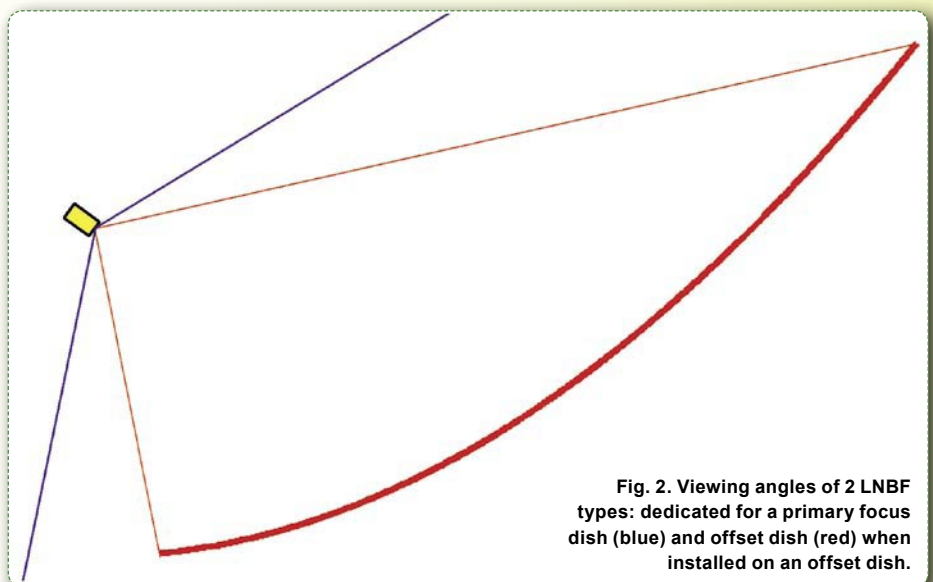


have the f/D parameter equal to 0.6. It means viewing angle 80°. The angle is calculated in accordance with a different formula because D is defined differently for an offset dish. But the most important fact is: the angle is much smaller for this kind of LNB.

We illustrated this in Figure 1. If you install a proper LNB on the dish ($f/D=0.38$ in this example), its viewing angle will match the reflector size. But if you install an LNB dedicated for offset antenna ($f/D=0.6$), it

If the pictures look a bit strange to you, take into account that on both of them the satellite signal is coming vertically from top to the bottom.

The final conclusion is that you cannot use a primary focus type LNB on an offset dish but you can use an offset type LNB on a prime focus dish. But in the latter case you will get a performance equal to a much smaller dish: 40-60% of the actual diameter depending on the f/D parameter of a real dish.





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relook



Topfield TF7700HSCI

Receiver PVR HDTV yang Elegan

Pada **TELE-satelit beberapa** edisi yang lalu kami telah memperkenalkan receiver yang kompatibel HD dari pabrikan Topfield, model utama TF7700HDPVR dengan tuner kembar, fungsi PVR dan hard disk terintegrasi (edisi 03/2008).

Panel belakang hadir dengan colokan USB yang digunakan untuk hard disk eksternal atau memori USB. Selain itu

TF7700HSCI adalah receiver CI yang dapat menangani DVB-S, DVB-S2-QPSK dan DVB-S2-8PSK.



Pabrikan segera menyadari bahwa terdapat banyak konsumen yang tidak memerlukan dua tuner. Jumlah tersebut bahkan bisa meningkat jika acara yang direkam dengan bantuan hard disk eksternal dapat diputar di lokasi yang berbeda seperti receiver lain di kamar tidur, di tempat liburan, ketika berkemah, dsb. Anda bahkan bisa menggunakan lebih dari satu haddisk eksternal untuk membuat arsip video.

Topfield mendengarkan keinginan ini dan mengembangkan model baru TF7700HSCI: receiver HDTV DVB-S2 tuner tunggal.

TF7700HSCI adalah receiver berpenampilan menawan. Hadir dengan kotak berwarna hitam berukuran lebar 43cm sehingga dapat ditempatkan di segala rak TV. Tampilan VFD yang mudah dibaca terletak di bagian tengah panel depan yang menunjukkan nomor saluran dan, jika di mode standby, menampilkan waktu.

Lima tombol memungkinkan Anda mengoperasikan receiver tanpa kendali jarak jauh, serta dua rongga CI tersembunyi di balik flap yang kompatibel dengan segala jenis modul (Irdeto, Seca, Conax, Viaccess, Cryptoworks, Nagravision, dll.).

Bahkan dengan melihat panel belakang akan membuat Anda tersenyum: sebagai tambahan pada koneksi HDMI, yang Anda harap dapat temukan di receiver HDTV, terdapat juga dua colokan Scart serta enam colokan RCA

Rekam acara televisi favorit Anda ke hard disk eksternal melalui terminal USB

untuk keluaran audio stereo, video dan YUV, keluaran audio optikal, antarmuka RS-232, koneksi terminal USB 2.0, tentu saja, masukan IF dengan keluaran loop-through.

Topfield juga menyertakan switch kecil di panel belakang untuk memilih apakah sinyal keluaran video dikirim ke konektor HDMI, YUV atau Scart dan menyesuaikan pengaturannya di menu utama.

Kendali jarak jauh yang disertakan enak digenggam dan diberi tanda dengan

sehingga hampir setiap saluran HD dapat ditemukan di posisi satelit yang terkenal. Jangan lupa bahwa saluran HD baru muncul di posisi yang berbeda setiap minggunya sehingga belum diprogram ke dalam receiver. Kami tidak bisa menyalahkan pabrikan untuk hal ini.

Untunglah, cukup mudah untuk menambahkan data satelit dan transponder baru; juga mudah dalam mengubah data yang ada. Seperti pada receiver Topfield lainnya, TF7700HSCI mendukung

waktu standar dapat diaktifkan atau dimatikan hanya dengan menekan satu tombol.

Komunikasi dengan receiver dapat dilakukan dalam bahasa Jerman, Inggris, Perancis, Italia, Spanyol, Arab, Yunani, Turki, Swedia, Denmark, Norwegia, Belanda, Rusia, Polandia, Persia, Finlandia, Czech, Thai, Hungaria, Bulgaria dan Slovakia.

Pengaturan tambahan termasuk sejumlah pilihan pengaturan OSD serta pilihan untuk sinyal keluaran A/V.



jelas. Bersama receiver uji yang kami terima terdapat buku panduan dalam bahasa Inggris; biasanya, untuk setiap versi negara yang berbeda, disediakan terjemahan.

Penggunaan Sehari-hari

Ketika menyalakan receiver untuk pertama kalinya, menu utama ditampilkan dan tidak bisa ditutup sampai seluruh pengaturan dasar telah dilengkapi serta pemindaian saluran telah diselesaikan. Daftar saluran yang telah terprogram yang bisa menyederhanakan instalasi awal tidak tersedia.

Daftarsatelityangdisertakan terdiri dari 143 satelit Eropa, Asia dan Amerika. Pabrikan akhirnya mendengarkan kritik yang mereka terima bagi daftar satelit dan transponder lama, dan melakukan pembaruan

protokol DiSEqC 1.0, 1.1, 1.2 dan 1.3(USALS)sehinggadapat digunakan dengan kombinasi multifeed sederhana, sistem motor DiSEqC atau antena WaveFrontier hingga 16 LNB.

Sejumlah LOF (frekuensi oscillator lokal) untuk C-band dan Ku-band telah terprogram dalam receiver. Jika Anda ingin menggunakan antena S-band pada TF7700HSCI, tidak menjadi masalah dengan adanya pengisian LOF secara manual.

Setelah receiver telah sesuai dengan antena Anda, langkah selanjutnya adalah pemindaian saluran. Seperti halnya receiver Topfield umumnya, hanya diperlukan empat menit untuk memindai dan mendapatkan seluruh saluran dari satelit dengan 110 transponder.

Tentusaja,sebagaitambahan pada pemindaian saluran

secara otomatis, terdapat juga pemindaian secara manual serta kemampuan untuk mengisi PID secara manual.

Jika perlu, pemindaian jaringan juga bisa diaktifkan; dengan cara ini Anda bisa yakin bahwa receiver akan menemukan setiap saluran yang ada bahkan jika penyedia layanan mengatur saluran pada transponder lainnya.

Pada Pengaturan Sistem, pengguna bisa beradaptasi dengan receiver sesuai keinginannya serta menyesuaikan dengan TV yang digunakan. Berbagai variasi pengaturan mulai dari pembaruan otomatis terhadap jam dan, berbeda dengan receiver dari pabrikan lain, daylight savings time dan

Jika saklar DIP di panel belakang keluaran video diatur pada HDMI dan/atau YUV, maka keluaran Scart hanya memiliki S-Video atau CVBS. Jika saklar diatur pada Scart, maka RGB juga tersedia pada keluaran Scart.

Meskipun semakin banyak penyedia acara yang menyelenggarakan siarannya dalam format 16:9, masih terdapat banyak penyiar yang menggunakan format lama 4:3. Receiver TF7700HSCI mengizinkan pengguna untuk memilih apakah menonton saluran ini dalam mode diperbesar untuk mengisi keseluruhan layar TV atau dengan pita hitam di bagian kiri dan kanan tayangan.

Jika TV tidak mendukung sinyal 16:9, maka receiver bisa menyalurkan sinyal keluaran dalam format Letterbox atau dipusatkan di tengah layar.

Namun bisa diasumsikan



Pembaruan peranti lunak dari memori USB

tidak seorang pun akan menggunakan receiver ini pada TV 4:3 standar.

satelit: mereka tidak akan mengalami masalah menerima siaran feeds dari Amerika Serikat.

Sebagaimana pada sebagian besar receiver Topfield, model

daftar Favorit dan dapat diakses dengan menekan satu tombol.

Fungsi System Restore merupakan fitur yang sangat praktis. Pengguna dapat menyimpan keseluruhan pengaturan, daftar saluran dan favorit, data satelit, dsb. Dan menyimpannya sesering diperlukan. Jika terjadi

terjemahan, multifeed, dsb.) serta data transponder. Menekan tombol Info sekali lagi akan memunculkan informasi yang lebih rinci, tentu saja jika data ini disediakan oleh penyiar. Informasi acara selanjutnya juga diberikan oleh tombol Pedoman.

Receiver TF7700HSCI segera

Pada menu Format Video, pengguna bisa memilih resolusi sinyal keluaran HDMI (1080i, 720p, 576i atau 576p) atau pilihan dapat diserahkan kepada receiver berdasarkan sinyal yang masuk dengan memilih Auto untuk menu ini. Fungsi ini cukup praktis karena sinyal SD standar, yang jika menggunakan resolusi 1080i yang ditingkatkan menggunakan scaler, akan muncul berkabut atau kabur, sehingga memilih 576i atau 576p akan menjadi pilihan yang tepat.

Peralihan sinyal secara otomatis berlangsung sebagaimana seharusnya dalam pengujian kami; receiver segera mengenali sinyal HD berkualitas tinggi dari ORF1 HD dan memilih resolusi 720p yang tepat. Ketika receiver dipindahkan ke saluran SD, receiver TF7700HSCI langsung mengaktifkan 576p.

Bahkan resolusi 1080i pada saluran HD TV-berbayar Jerman dikenali tanpa masalah dan disesuaikan oleh receiver. Format video dapat diubah dengan leluasa dengan menekan satu tombol pada kendali jarak jauh.

Meskipun kenyataan bahwa pemilihan standar warna PAL dan NTSC secara manual tidak bisa lagi, receiver dapat menampilkan kedua sinyal tanpa masalah. Ini merupakan berita gembira bagi pehobi

TF7700HSCI juga hanya bisa menyimpan 5000 saluran TV dan radio; untuk receiver CI dengan DiSeqC 1.3, hal ini tentu saja tidak mencukupi.

Karena keterbatasan kapasitas memori saluran, pengaturan daftar saluran secara efisien adalah lebih kritical. Sepertinya Topfield telah bekerja keras dalam pengaturan daftar saluran – pengguna dapat dengan mudah menghapus, memindahkan atau mengubah nama saluran atau menguncinya dengan kode PIN. Saluran yang lebih sering ditonton dapat dipindahkan ke salah satu

masalah atau kesalahan pengaturan, konfigurasi segera dikembalikan ke konfigurasi asal. Receiver akan kembali ke status awal dengan pengaturan yang benar.

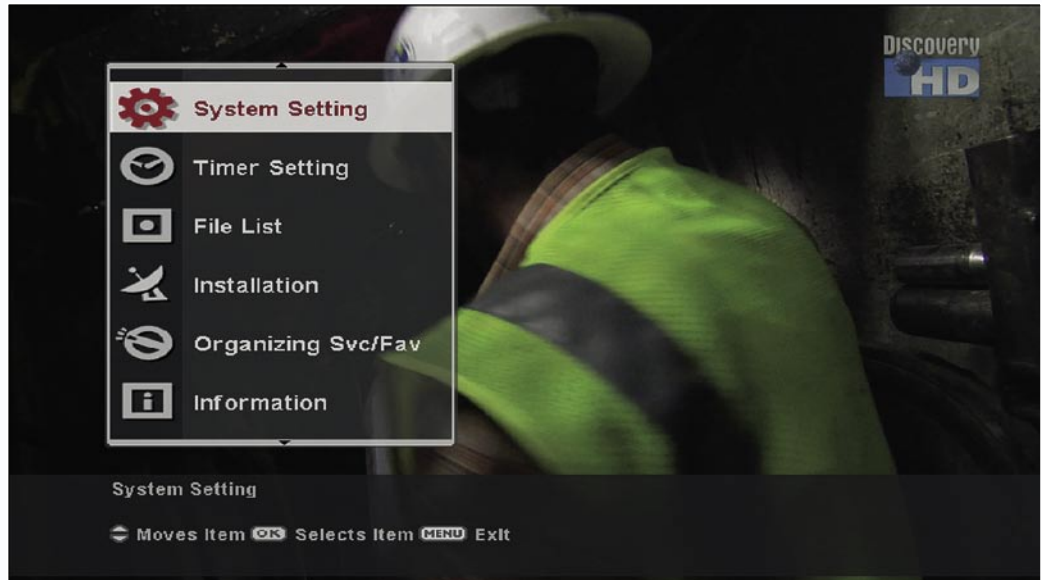
Setelah pengaturan dasar telah dilakukan, tombol Keluar akan membawa Anda keluar dari Menu Utama dan receiver selanjutnya akan berpindah ke saluran pertama dalam daftar.

Seperti yang kita harapkan dari Topfield, Info bar yang sangat informatif muncul menyediakan informasi EPG acara yang ditonton, waktu, teleteks, sistem acak,

membentuk tinjauan lengkap seluruh acara dan menekan tombol OK pengaturan waktu dapat ditangani langsung dari EPG sedangkan acara ditayangkan dalam jendela kecil (bahkan dengan saluran HD).

Menekan tombol OK akan menampilkan daftar saluran dan dengan bantuan tombol-tombol berwarna di kendali jarak jauh akan bisa mengurutkan atau membatasi pada satelit tertentu.

Waktu yang diperlukan untuk berpindah antar dua saluran HD adalah di bawah



Menu Utama



dua detik; perpindahan saluran lebih cepat untuk saluran SD.

Karena adanya pengaturan otomatis untuk resolusi gambar, waktu yang diperlukan untuk berpindah antar saluran HDTV dan SDTV adalah tiga hingga empat detik bergantung pada TV. Jika ini terlalu lama bagi Anda, maka non-aktifkan fungsi resolusi otomatis dan mengubah resolusi secara manual jika diperlukan dengan kendali jarak jauh.

Tuner yang diproduksi Topfield memberikan kesan yang sangat baik; bisa dengan mudah menangani sinyal lemah seperti yang ditemui di BADR 26° BT, NILESAT 7° BB atau ASTRA 2D 28.2° BT.

Sayangnya, kami tidak bisa menemukan data teknis tuner ini di buku panduan, sehingga kami harus melakukan pengujian SCPC tanpa rentang data dari pabrikan untuk perbandingan. Pengujian kami membuktikan bahwa penerimaan hanya dimungkinkan dengan symbolrate mulai dari 2.0 Ms/sec.

Kami khususnya sangat menyukai hasil uji penerimaan HDTV; dengan kinerja yang sempurna dan tanpa jeda. Kami mencari berbagai saluran HDTV pada posisi satelit yang berbeda, tidak peduli FTA atau diacak, receiver TF7700HSCI tidak mengalami masalah untuk saluran-saluran ini.

Hingga tahap ini, fungsi TF7700HSCI serupa dengan receiver HD lainnya, namun setelah ini kesamaan itu akan berakhir: terminal koneksi USB 2.0 yang terpasang.

Untuk pengujian ini kami menghubungkan hard disk

Seagate FreeAgent Pro dan memori USB 4GB. Segera setelah masing-masing peranti telah terhubung, dan hal ini bisa dilakukan ketika receiver sedang beroperasi, receiver TF7700HSCI segera mengenali media penyimpan tersebut, hanya begitu saja, berbagai fungsi PVR seperti Rekam dan Putar segera menjadi tersedia.

Ketika satu saluran sedang direkam (meskipun saluran HD), seluruh saluran lainnya dari transponder yang sama (juga, meskipun saluran HD) tersedia untuk ditonton secara langsung. Juga dimungkinkan untuk merekam satu saluran dan menonton saluran yang telah direkam sebelumnya pada saat yang bersamaan.

Meskipun kami memberikan beban yang berat pada receiver, kami tidak menemukan adanya gangguan selama perekaman dan pemutaran.

Secara umum, kami tidak bisa mendeteksi perbedaan

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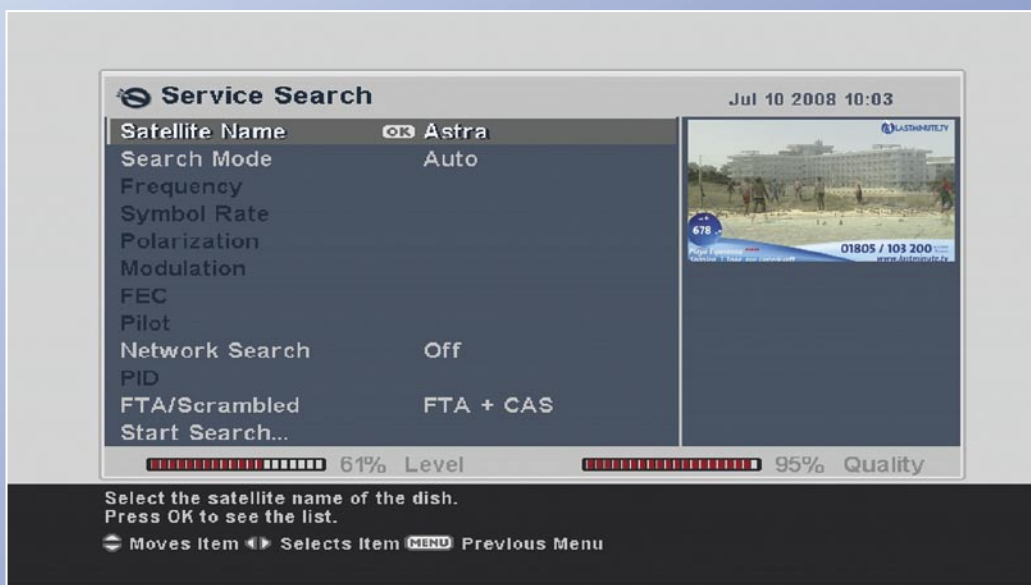
kinerja dibandingkan dengan receiver yang memiliki hard disk terpasang; hal ini memberikan pengguna untuk mengambil keuntungan penuh dengan media penyimpan eksternal dan memberikan keleluasaan untuk berganti peranti eksternal atau membawanya ke lokasi lain.

Acara yang telah direkam pada hard disk eksternal atau memori USB juga dapat diputar pada komputer tanpa masalah atau dengan peranti tertentu untuk dibakar pada DVD. Bahkan acara HD yang direkam tidak menyebabkan

kesulitan pada komputer Anda.

Topfield secara konstan bekerja untuk meningkatkan produknya. Pembaruan peranti lunak baru dapat dimasukkan ke receiver dari satelit, melalui memori USB atau antarmuka serial. Hal ini membuatnya sangat mudah bagi pengguna untuk menjaga agar peranti lunak pada receiver selalu terkini.

Topfield menawarkan peranti penyusun daftar saluran secara gratis di situsnya: www.i-topfield.com.



Menu Pemindaian Saluran





Opini Ahli



Thomas Haring
TELE-satellite
Test Center
Austria

+

TF7700HSCI adalah receiver SDTV dan HDTV yang solid dengan berbagai fitur yang sangat praktis. Serta ditambah dengan menu OSD yang ditata dengan logis dan mudah dimengerti, serta Anda memiliki receiver satelit untuk seisi keluarga.

Penerimaan HDTV dalam mode DVB-S2 berdasarkan standar H.264 berfungsi sebagaimana mestinya dan dengan adanya keluaran HDMI, sinyal yang sangat jernih ini dapat dengan mudah dihubungkan ke TV plasma atau LCD. Dengan bantuan antarmuka USB 2.0 dan hard disk eksternal atau memori USB, TF7700HSCI menjadi mesin PVR yang handal, dengan perekaman yang mudah dilakukan di mana saja dan dengan mudah diputar kembali secara langsung di komputer.

-

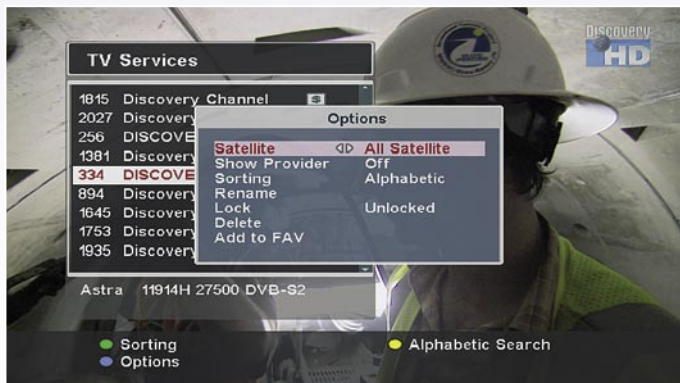
Memori saluran hanya mampu menyimpan 5000 saluran dan seharusnya ada switch catu daya utama di panel belakang.



Info Bar |



Perluasan EPG |



Daftar Saluran dengan Menu Pilihan |



Perekaman acara HD |

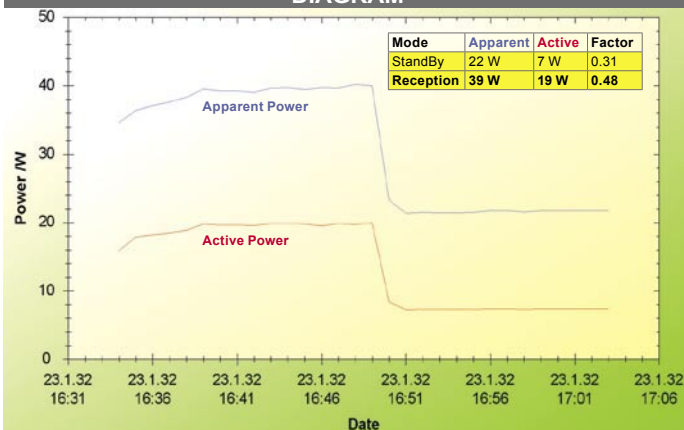


Tinjauan acara yang direkam sebelumnya |

TECHNIC DATA

Manufacturer	Topfield, Seongnam/Korea
Fax	+82-31-7082607
E-Mail	inquiry@topfield.co.kr
Model	TF7700HSCI
Function	Digital Satellite Receiver for SDTV/HDTV in DVBS and DVBS2 (QPSK/8PSK) MPEG2 and MPEG4
Channel Memory	5000
Symbolrate	2-45 Ms/sec.
SCPC Compatible	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
HDMI Connection	yes
Scart Connectors	2
Audio/Video Output	3 x RCA
Component Output	3x RCA
S-Video Output	no
UHF Modulator	no
Programmable 0/12 Volt	no
Digital Audio Output	yes
EPG	yes
C/Ku-Band Compatible	yes
PVR Function	yes (via external USB 2.0 storage medium)
Power Supply	90-250 VAC, 50/60 Hz
Dimensions	43/26.5/6cm
Weight	2.9kg

ENERGY DIAGRAM



15 menit pertama: operasi aktif dengan Perpindahan Saluran, Perekaman, Memutar rekaman, dsb. 15 menit berikutnya: Standby.



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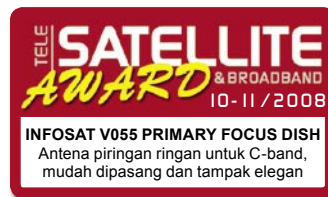
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Antena Piringan Fokus Utama

Seringan Feather



Jika Anda adalah penggemar satelit yang tinggal di Eropa, maka satelit Ku-Band merupakan sesuatu yang sangat umum bagi Anda. Namun apakah Anda pernah berpikir tentang penjelajahan dunia C-Band? Anda berpikir bahwa antena C-Band haruslah besar, berat dan jelek? Baiklah, tidak sepenuhnya benar. Anda tidak bisa berbuat banyak untuk ukuran C-Band yang memiliki panjang gelombang tiga kali lebih besar daripada Ku-Band. Sehingga untuk mendapatkan gain yang sama, maka antena juga harus 3 kali lebih besar. Namun Anda tidak perlu menggunakan antena piringan solid. Anda dapat memilih reflektor jaring aluminium. Dengan cara ini, Anda mendapatkan antena yang lebih ringan daripada yang solid.

Instalasi

V055 dari INFOSAT adalah antena jaring aluminium berdiameter 165 cm. Dikirim dalam tiga paket. Empat bagian reflektor dalam paket pertama. Paket kedua terdiri dari tiang dan kaki LNBF serta yang ketiga – mur, baut dan sisanya komponen mounting. Berat reflektor hanya 3,8 kg. Hal ini berarti setiap bagian beratnya kurang dari 1 kg.

Setelah membuka kotak paket, kami mencari petunjuk pemasangan. Pabrikasi tidak menyertakan petunjuk ini. Baiklah, kami menghitung setiap mur dan baut, memisahkannya berdasarkan ukuran dan membandingkan dengan lubang yang dapat dilihat di bagian reflektor dan mounting. Tidak memerlukan waktu lama untuk menemukan posisi pemasangan mur/baut. Akan tetapi, jika INFOSAT

memutuskan untuk menjual produk ini langsung kepada pengguna akhir, adalah ide yang baik untuk menyertakan petunjuk pemasangan.

Penggabungan empat bagian reflektor sangatlah mudah. Kami melakukannya dengan cepat dan berpindah ke bagian yang agak rumit – persiapan landasan untuk tiang antena. Sepotong papan-partikel tersedia di garasi untuk momen seperti ini. Untunglah, kami tidak membuangnya. Setelah menambahkan empat kaki yang bisa diatur, kami dapat menggunakan papan ini sebagai landasan horizontal untuk tiang. Kami memasang tiang ke landasan menggunakan tiga kaki yang disertakan dalam paket. Memasang reflektor ke atas tiang sangatlah mudah. Hanya diletakkan di atasnya.

Setelah pemasangan reflektor pada tiang, tahap



Antena piringan V055 berukuran 1,65m dikirim dalam tiga paket

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terakhir adalah pemasangan empat kaki pemegang LNBF. Tidak menimbulkan masalah. Antena siap untuk pengujian. Kami sangat ingin melihat apa yang dapat diberikan oleh antena yang ringan ini.

Penerimaan C-Band – Polarisasi Linear

Tidak begitu banyak satelit C-Band yang dapat diterima dengan polarisasi linear. Dengan bantuan Satellite Dish Pointer (www.dishpointer.com) dan SatcoDX (www.satcodx.com), kami memilih 4 satelit. Hanya satu di antaranya: BADR-C memiliki elevasi yang tinggi: 30°. Elevasi untuk tiga satelit lainnya: ABS-1, TELSTAR dan NSS-10 hanya sekitar 10°. Kekhawatiran kami menjadi kenyataan. Kami hanya bisa menerima beam Eropa dari BADR-C. Satelit-satelit lainnya bahkan tidak menghasilkan puncak terkecil pada spectrum analyzer kami. Pohon-pohon di sekitar kami membuatnya tidak mungkin. Pada kesempatan ini, kami sampaikan bahwa pusat uji TELE-satellit tidak terletak di atap pencakar langit.





4 bagian reflektor dilindung dengan kardus



Bagian reflektor



... demikian pula dengan sisa paket lainnya



Penggabungan reflektor sangat mudah karena bobotnya yang ringan



Apakah semua baut sudah kencang?



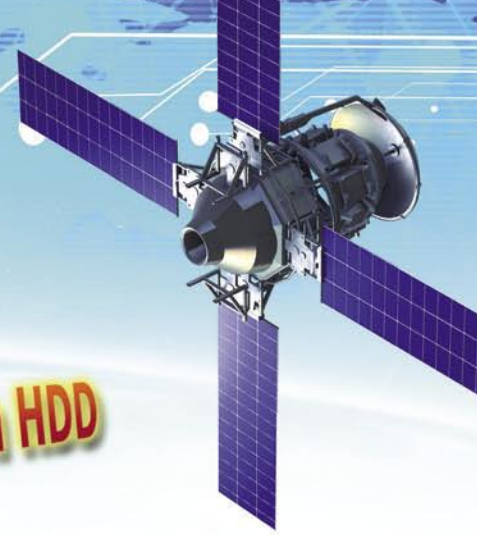
Elevasi diatur dengan bantuan baut panjang ini



Penopang antenna yang sudah dipersiapkan. Tiang yang disertakan dipasang pada papan partikel yang dilengkapi dengan kaki yang dapat diatur.



Sukses, seluruh bagian telah terpasang sekarang giliran bagian elektroniknya



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Antena piringan yang telah lengkap dengan pelindung LNB C-band. Tampak elegan dan memungkinkan untuk dipasang di dekat pohon.



Saatnya untuk mengatur arah antena. Kami merekomendasikan untuk memakai waterpass yang dilengkapi dengan meter sudut – akan memudahkan pengaturan elevasi.



Kesenangan dimulai: mencoba menerima satelit C-band yang terletak sangat rendah di horizon

Sinyal dari BADR-C, 26°E, sangat, sangat kuat. Kami dapat menerima transponder 3880H (27500, 3/4) dengan daya pancar 84 dB μ V dan C/N 12 dB. Margin Noise di atas 6 dB. Transponder digital lainnya: 4040H (27500, 3/4) tidak jelek. Kekuatan sinyal 84.1 dB μ V dan C/N 12.6 dB. Margin noise: 6.3 dB. Sangat bagus!

Transponder analog juga sama kuat dan jelas. C/N lebih tinggi daripada transponder digital namun apakah Anda mengharapkan C/N=23.5 dB! Kami mencatat rekor ini untuk transponder 3996H (PAL). Saluran Al Jazeera berbahasa Inggris dipancarkan dengan sinyal yang kuat.

Penerimaan Ku-Band Polarisasi Linear

Meskipun antena jaring dikhususkan untuk C-Band, kami juga mencoba LNBF fokus utama untuk Ku-Band. Penerimaan Ku-Band tidak begitu kuat. Kami menguji satu transponder di satelit HOTBIRD (13°BT). Sejujurnya, rasio C/N lebih jelek daripada LNBF biasa yang dipasang di antena offset

90 cm (12 dB vs 12,5 dB). Kami mengharapkan kinerja setara antena solid 120 cm, namun ingat bahwa antena jaring bukan merupakan pilihan yang bagus untuk Ku-Band. Beberapa noise dari tanah dapat melewati permukaan jaring dan mencapai konverter.

Karena akan menjadi sangat menarik bagi pembaca, maka kami juga mencoba LNBF Ku-Band yang digunakan untuk antena offset. Kami memasang LNBF tersebut di INFOSAT V055. Secara teoritis LNBF seperti ini memiliki rasio f/D yang tinggi (0,6) sehingga LNBF ini hanya bisa "melihat" bagian pusat dari antena fokus utama. Pengukuran kami mengkonfirmasi teori ini. Kualitas sinyal turun 1 dB jika dibandingkan dengan LNBF fokus utama (C/N = 11 dB). Akan tetapi, satelit yang kuat seperti HOTBIRD masih tetap dapat diterima meskipun dengan LNBF "yang salah" terpasang pada V055.

Penerimaan C-Band Polarisasi Sirkular

Terdapat lebih banyak satelit yang dipancarkan dalam

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polarisasi sirkular yang dapat diterima di lokasi kami, tetapi sebagian besar memerlukan antenna yang lebih besar dari 165 cm. Namun terdapat beberapa lagi yang dapat dijangkau. Kami menguji antenna tersebut dengan NSS-7 di 22° BB, dan YAMAL 202 di 49° BT. Kami mendapatkan C/N 6-7 dB. EIRP-nya adalah 40 dBW di lokasi kami yang berarti bahwa harus menggunakan paling tidak antenna 1,5 m untuk menerima sinyal dari satelit tersebut. Dengan C/N mendekati 7 dB

kami berada dalam ambang batas penerimaan.

Kesimpulan

Antena V055 merupakan antenna piringan jaring yang ringan sehingga mudah dipasang di halaman rumah. Dengan diameter berukuran 165 cm yang merupakan syarat minimum untuk penerimaan C-band di Eropa, namun cukup memadai di wilayah lain dengan satelit C-band berdaya pancar tinggi. Keuntungan dari V055 adalah mudah dalam pemasangan.



Sekarang kami menguji antenna tersebut dengan LNB Ku-Band fokus utama.

Opini Ahli

+
INFOSAT V055 adalah antenna yang sangat ringan, bagus digunakan untuk antenna tetap. Mudah dipasang dan tampak elegan. Tak diragukan, ini bukanlah antenna besar yang jelek!



Jacek Pawlowski
 TELE-satellite
 Test Center
 Poland

-
 Karena konstruksinya yang tidak kokoh, maka antenna ini mudah berubah bentuk dan memerlukan penanganan yang hati-hati.

TECHNIC DATA

Manufacturer	INFOSAT INTERTRADE CO., LTD.
Website	www.infosats.com
Email	sales@infosats.com
Tel./Fax	+66- 2- 961-9161-3 / +66- 2- 961-8587
Model	V055
Function	1.65 m Primary Focus Dish
No. of segments	4
Focal length	63 cm
Depth	28 cm
f/D ratio	0.38
Material	Aluminum mesh 0.9 mm
Operating frequency	3.4 ~ 12.75 GHz
C-Band gain	35.5 dB
Ku-Band gain	42 dB
Stand pole	1 m, Ø 2"
Reflector weight	3.8 kg
Mounting stuff weight	3.5 kg
Pole and leg supports weight	2.6 kg

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Imperial SatBOX HD

A Perfect HDTV Receiver

Thanks to the emergence of HDTV, or high definition television, satellite receivers are going through a substantial redesign. Instead of 576 lines, this new technology brings with it nearly twice that amount, 1080 lines, and offers therefore a marked improvement in picture quality. The Imperial SatBOX HD receiver that we tested lets you receive not only DBS-S2 signals in MPEG2 (H.262) but also signals in the newer MPEG4 compression (H.264). At the same time, the video signals are now carried to the TV digitally with the new HDMI connections.

center. Its power consumption is relatively low, in standby mode it uses only 12W and when fully operational 17W (with antenna motor it's more like 18W).

The sensitivity of the tuner is above average and its operating system is fast and comes with a number of convenient functions.

In addition to the Standby button on the front panel, there are seven more buttons that let you work through the menu system without the need of the remote control. The dominant feature on the front panel would have to be the 13-character alphanumeric display. It shows not only the channel name but also provides information on a

rear panel, there's also an HDMI output. The latter provides a digital output of up to 1080i lines of resolution whereby this line structure is also possible with the 576 lines of a normal DVB-S broadcaster thanks to upscaling.

The annoying line structure disappears with a compatible TV; this makes for enjoyable viewing even on larger flat screen TV's. Top quality stereo systems can be connected optically to the S/PDIF output or via the RCA jack.

Software upgrades can be uploaded through the RS-232 interface using a null-modem cable. The USB jack and the Ethernet connection are cur-



When I turned on the Imperial SatBOX HD for the first time, I sat there mesmerized by the high resolution transmissions for almost an hour. I surfed from ASTRA19 to HOTBIRD13 and from ASTRA 28.2 to ASTRA 23.5. Through it all I enjoyed the spectacular landscapes and the animal portraits that could be seen on the Demo channels.

It's a nice feeling knowing that you are witnessing the birth of a new technology even if for the most part it's still in the starting gates in Europe.

I like the Imperial SatBOX HD. It weighs only about 2.2 Kg (4.8 LBS), measures 340x248x65 mm and therefore fits nicely in almost any entertainment

number of the menu functions. The two CI slots plus the Conax card slot lets the box receive up to three different encryption systems at the same time. This is especially critical since HDTV is mostly available with encrypted PayTV packages.

Aside from the LNB In/Out and the two Scart jacks on the

receiver, there are two CI slots, which are not active and are planned for a later version. The main power switch is a useful way to help save energy but it also makes the software upgrade process a little easier.

The receiver has an

above-average capacity of 7000 channels. This means there is a large memory reserve since the available FTA channels in Europe number at most 2500 leaving plenty of room for encrypted channels.

Memory management encompasses every satellite and 32 Favorites lists divided into TV and radio channels. They can be completely edited; entries can be locked, deleted, renamed or moved. Transponders can easily be added although no more than 16 satellites can be stored.

If you access the channel list with the OK button, you can scroll within the channel list without actually switching to another channel – a second push of the OK button is needed for that to happen. For every channel the associated frequency and polarization is shown.

With the left cursor button an additional menu can be called up with which you can access a Favorites list and the channel list. The remote control really

doesn't need a Satellite button anymore.

With multiple satellites, channel management becomes a little more awkward. Moving and deleting channels can only be done with the entire channel list displayed; it might get a little confusing to keep track of what channel goes with what satellite.

This problem is somewhat solved by the fact that each channel keeps the same channel number regardless of what list you happen to be looking in at that moment.

With every channel change an Info bar appears at the bottom of the screen for 3 to 30 seconds (user-settable) that provides:

- the name and number of the channel
- the name of the current program
- the name of the next program
- the date, time, audio and language



Euro1080 on Astra23 |



Channel list for BBC HD |



- \$ display
- availability of EPG, teletext and subtitles
- name of the satellite, transponder and frequency
- signal quality bar graph

This Info bar can also be called up with the Info button.

A second push of the Info button displays a description of the currently running program. This data can also be viewed along with a thumbnail image of the current video by pressing the EPG button.

The EPG can show programming information for five channels at the same time for a week in advance, as long as this data is available in the first place. A 10-event timer is integrated into the EPG to make it easy to pre-program up to ten different programs.

The teletext function is quite sophisticated: every page is automatically downloaded by pressing the yellow Teletext button. Every page can therefore be accessed instantly when

needed. The cursor buttons let you switch pages one at a time or by the hundreds just as fast.

Not all of the DiSEqC protocols are available. DiSEqC 1.0 lets you connect up to four fixed antennas and there's a helpful tool included to calculate azimuth and elevation for every satellite that can be seen from your location.

For motorized antennas up to 16 satellite positions can be set up manually with DiSEqC 1.2 or automatically with USALS.

The channel scan can be set to search by satellite, transponder, DVB-S or DVB-S2, FTA and/or encrypted channels. The scan itself is quite fast: HOTBIRD was completely scanned in roughly four minutes.

The channel scan must access a transponder list in order to work; without a transponder list a channel scan cannot be performed since, just like the previous model that was not an HDTV box, a Blind Scan function is not available.

Expert Opinion

+

This receiver provides perfect HDTV video. It has no problems decoding older DVB-S signals and also the new DVB-S2 standard. Its various interfaces and functions are comfortable and easy to use.

Large 13-character alphanumeric display
Sensitive tuner
DiSEqC 1.2 plus USALS



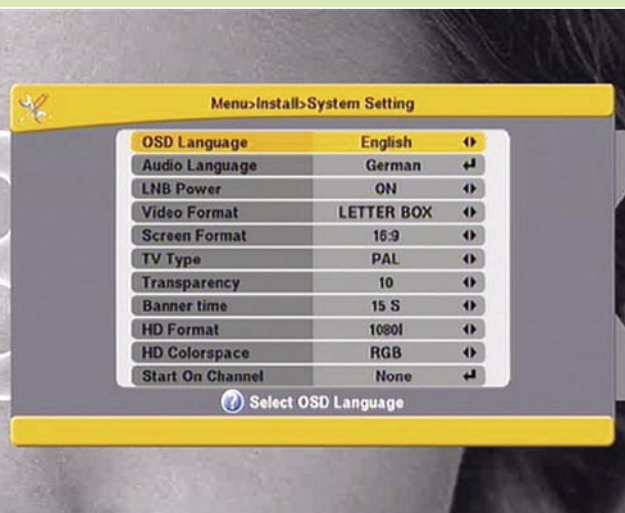
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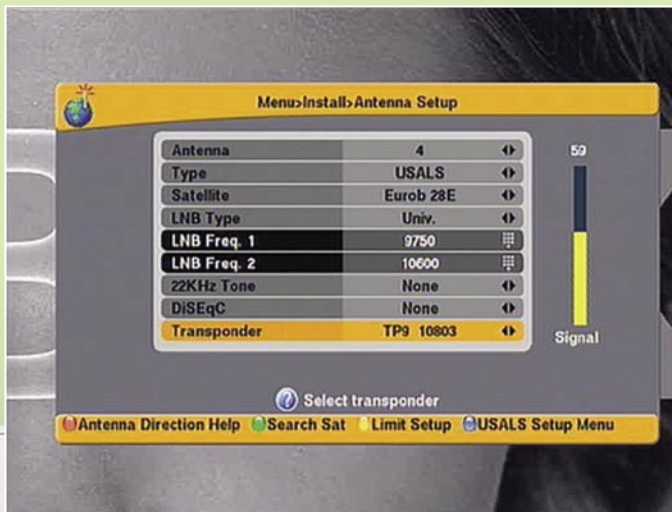
Fully preprogrammed only for ASTRA 19E and HOTBIRD 13E.
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Install menu |



System setting |



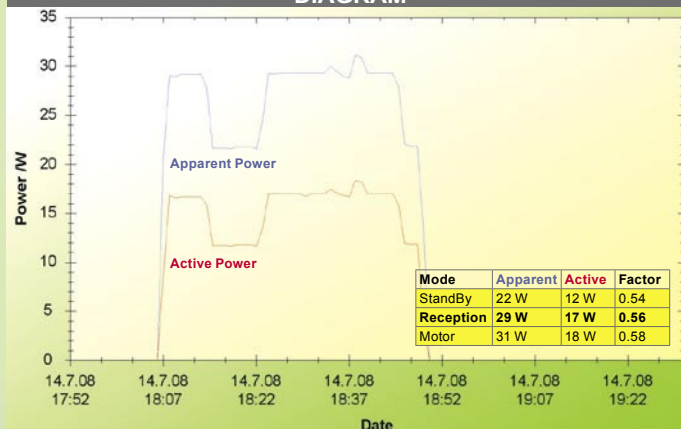
Antenna setup |



TECHNIC DATA

Distributor	DVB Shop, Brehnaer Strasse 18 D-04509 Neukyhna OT Pohritzsch, Germany
Tel	+49-34954-31960
Fax	+49-34954-49233
E-Mail	webmaster@dvbshop.net
Website	www.dvbshop.net
Model	IMPERIAL SatBOX HD
Power Supply	175 ... 250 V AC
Power Consumption	6/12 Watt (Stand-By/Reception)
Size	340x248x65 mm
Weight	2200 g
DiSEqC	1.0, 1.2, USALS
Satellites	3 preset plus 13 additional positions
Program Listings	All, Satellites (each for TV and Radio)
Favorites	32 (each for TV and Radio)
Teletext	Full Page Memory
EPG	Extended 5 Channel Display, Program Details for 7 Days
Timer	10 for all EPG Programs
Front View	Stand-By, Down, Up, Left, Right, Menu, OK, Exit, Alphanumeric Display, CI-Flap
Rear View	IF In/Out, 2xSCART, HDMI, RS-232, USB, Ethernet, 4xRCA (Audio L/R, Video, SPDIF), Optical SPDIF, Main Switch
Slots	2 Common Interfaces, 1 Conax-Slot

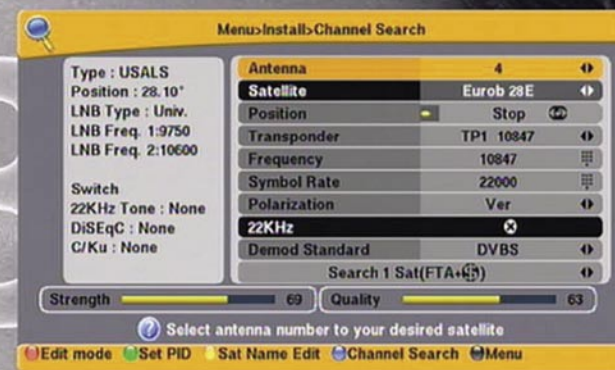
ENERGY DIAGRAM



12W is used at the beginning and the end while in standby mode; the 17W used in the middle is with the receiver in operation – the 1W increase to 18W occurred while the antenna was moved from ASTRA 19E to TURKSAT 42.



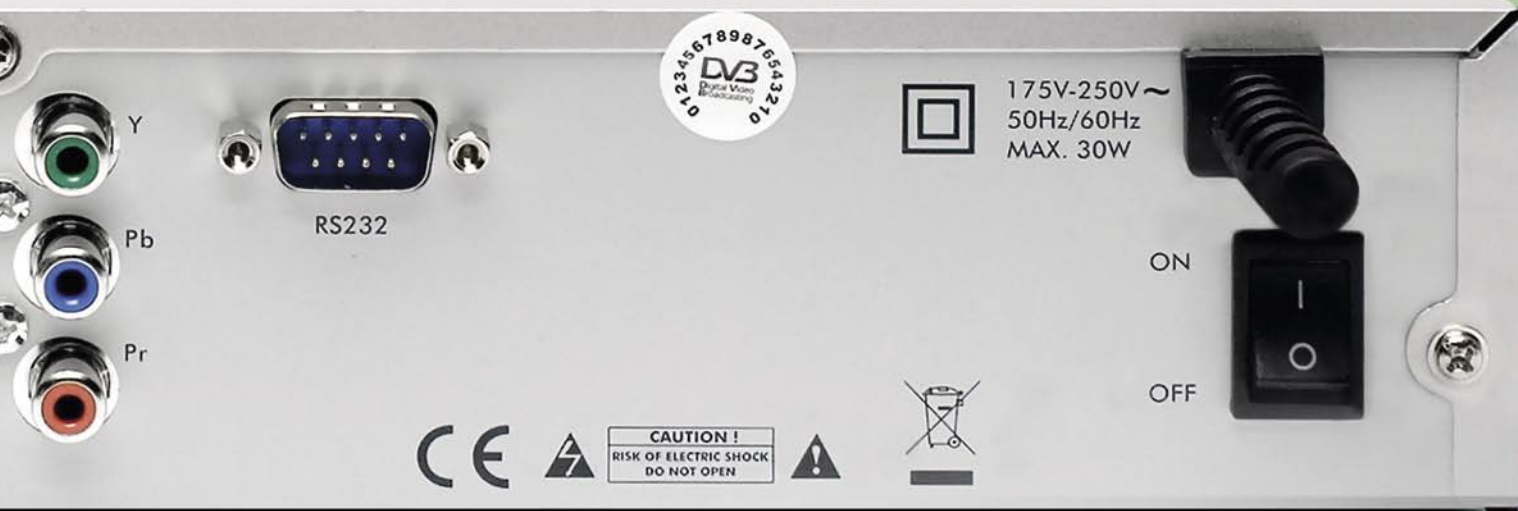
USALS setup |



Channel search |



Info |



Sonicview SV-360 Elite PVR

Receiver PVR yang mudah digunakan

Receiver PVR setiap hari semakin terkenal. Dengan sejumlah besar saluran yang tersedia melalui satelit dan banyaknya pilihan, mudah untuk melihat alasannya. Acara favorit Anda mungkin ditayangkan pada malam hari pada saat Anda harus menghadiri undangan pernikahan. Atau mungkin pertandingan kejuaraan tinju yang tidak ingin Anda lewatkan. Dengan adanya receiver PVR, segala saluran dapat direkam dan diputar kembali kapan saja Anda inginkan.

Karena meningkatnya ketenaran receiver ini, semakin banyak bertambah pabrik receiver PVR daripada sebelumnya. Sonicview juga telah bergabung dalam kelompok ini dengan receiver satelit baru SV-360 Elite PVR tuner kembar. Umumnya, kami ingin melihat dari apa receiver ini dibuat sehingga ketika paket ini tiba beberapa hari yang lalu dari Sonicview, kami sadar bahwa kami memiliki kesempatan untuk melakukannya.

Ketika kami membuka paket tersebut kami menemukan receiver satelit yang mengkilap dengan warna keseluruhan hitam kecuali garis tipis berwarna krom yang membentang horizontal di bagian tengah panel depan. Garis ini juga melingkupi dua tombol kecil (on/off dan menu) dan satu set tombol lingkaran (panah kiri/kanan/atas/bawah dan OK) di panel depan serta salah satu dari tiga terminal USB 2.0. Tombol-

tombol ini memungkinkan Anda mengoperasikan secara penuh receiver jika kendali jarak jauh hilang. Tombol-tombol ini agak terbenam ke dalam panel depan karena ukurannya yang kecil, seseorang dengan jari besar akan mengalami kesulitan menekan tombol ini dengan tepat, khususnya tombol lingkaran. Terminal USB terlindungi dari debu oleh flap karet yang mudah disibak jika melakukan koneksi.

Panel belakang juga sangat lengkap. Karena ini adalah receiver dengan tuner kembar, Anda akan menemukan satu pasang masukan IF satelit serta satu pasang keluaran IF loop-through di sisi kiri. Kemudian, tentu saja, terdapat colokan RCA yang menyediakan keluaran video dan audio analog stereo. Namun untuk kualitas video yang ditingkatkan, terdapat keluaran S-Video dan, yang lebih bagus, satu set colokan RCA yang memberikan keluaran



video komponen (Y, Pb dan Pr). Selain itu juga terdapat keluaran audio digital S-PDIF untuk kualitas audio yang terbaik. Untuk melengkapi semuanya terdapat antarmuka serial RS-232, dua terminal USB 2.0 dan saklar catu daya utama.

Kabel catu daya terpasang mati pada receiver dan hadir dengan colokan Amerika Utara. Tegangan catu daya receiver adalah 95-250VAC, 50/60Hz sehingga dapat digunakan di seluruh dunia; hanya perlu dipastikan Anda memiliki pengubah colokan yang tepat. Keluaran modulator tidak tersedia dan karena receiver ini untuk pasaran Amerika Utara, maka konektor Scart juga tidak disediakan.

Tidak seperti receivernya, kendali jarak jauh berwarna perak kecuali bagian kecil di tengah yang berwarna hitam. Kendali jarak jauh ini mudah digenggam, berbeda dengan tombol yang ada pada receiver, tombol-tombol ini tidak terbenam dan dapat dengan mudah ditekan dengan jari ukuran besar atau kecil. Tombol lingkaran dan tombol untuk angka menyala dalam kegelapan sehingga Anda dapat dengan mudah melihatnya jika Anda sedang menonton TV tanpa menyalakan lampu! Fitur ini bahkan bisa membantu Anda untuk menemukan kendali jarak

jauh di ruangan yang sangat gelap. Kendali jarak jauh ini juga dapat digunakan untuk mengendalikan perangkat elektronik lain seperti TV, pemutar DVD atau VCR. Ini adalah kendali jarak jauh yang banyak kegunaan.

Penggunaan Sehari-hari

Setelah melihat penampilan receiver ini dari luar, sekarang giliran untuk melihat apa yang dapat dilakukannya jika dinyalakan. Hal pertama yang terpantau adalah logo Sonicview di sebelah kiri panel depan: jika receiver ini terhubung ke listrik (saklar catudaya di-on-kan), logo ini akan berpendar dari dalam. Warna biru lembut dari logo ini memberikan tampak yang elegan pada receiver ini. Ketika receiver dinyalakan untuk pertama kalinya, receiver SV-360 Elite PVR menanyakan bahasa menu apa yang ingin digunakan. Anda dapat memilih antara bahasa Inggris, Perancis, Jerman, Spanyol, Italia, Rusia, Turki, Belanda, Czech dan Polandia. Jangan terlalu dalam menentukan pilihan – jika Anda tidak segera memilih bahasa, Sonicview secara otomatis memilihkan bahasa asal, dalam hal ini yaitu bahasa Inggris. Jika

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hal ini terjadi, tidak masalah dalam menuju ke menu dan mengubahnya ke bahasa yang lebih sesuai.

Setelah pemilihan bahasa, receiver masuk ke mode penerimaan saluran. Karena tidak ada saluran yang tersimpan di dalam memori, tidak ada yang bisa ditonton. Hal ini berarti bahwa kita harus mencari saluran yang ingin ditonton. Anda dapat melakukan ini dengan menekan tombol Menu pada kendali jarak jauh untuk mengakses Menu Utama dalam receiver. Menu Utama dibagi dalam empat kategori (Instalasi, Pengaturan Sistem, PVR dan Pengaturan Lanjutan) dan masing-masing dari menu ini selanjutnya terbagi lagi menjadi sub-kategori tambahan. Seluruh sub-kategori ini dapat dilihat di sebelah kanan kategori Menu Utama yang disorot. Tentu saja, langkah pertama yang logis adalah masuk ke menu Instalasi sehingga Anda dapat memberikan informasi kepada receiver perangkat antena Anda. Dengan menu Instalasi yang disorot di layar, menekan tombol OK memungkinkan Anda untuk memilih salah satu dari

empat sub-kategori. Dalam layar Pengaturan Antena, Anda dapat mengatur receiver Anda untuk menyesuaikan dengan konfigurasi antena Anda.

Seluruh pengaturan antena terdapat di sebelah kiri layar Pengaturan Antena. Pada sebelah kanan terdapat tampilan grafis tingkat kekuatan sinyal dan kualitas sinyal, dengan garis warna hijau mewakili kekuatan sinyal dan garis merah untuk kualitas sinyal. Dua tingkat sinyal ini juga ditampilkan dalam

format angka. Di bawah tampilan grafis ini terdapat grafik batang yang juga menunjukkan tingkat kekuatan dan kualitas sinyal.

Sebelum Anda mulai, buat catatan masukan antena mana yang Anda gunakan pada panel belakang. Jika Anda menggunakan kedua masukan, pastikan untuk mengingat masukan antena mana untuk satelit mana. Biasanya, tahap pertama adalah memilih satelit yang ingin diterima dan dapat dipilih dari daftar yang tersedia: receiver SV-360 Elite PVR hadir dengan daftar 195 satelit yang telah terprogram. Bahkan Anda bisa menambahkan lima lagi! Daftar ini cukup terkini meskipun beberapa satelit dalam daftar sudah tidak ada lagi atau telah berganti nama; beberapa satelit baru juga belum ada. Tombol-tombol warna pada kendali jarak jauh membuatnya lebih mudah untuk menambah, meng-edit atau menghapus satelit.





Menekan tombol OK untuk memulai Blind Scan. Tugas ini diselesaikan sekitar 4 menit 38 detik. Tidak perlu mencari stop watch; karena total waktu yang diperlukan telah ditampilkan di layar. Namun porsi yang baik untuk waktu ini adalah pemindaian dari 12,2 ke 12,9 GHz; tambahan waktu untuk pemindaian bagian ini tidak diperlukan untuk INTELSAT AMERICAS 5 dan tidak ada cara untuk membatasi rentang frekuensi pada pengaturan Blind Scan. Kemampuan untuk mengatur batas frekuensi akan membantu untuk menghemat waktu pemindaian.

mengaju kepada tampilan di bawah layar untuk melihat fungsi yang terkait dengan tombol warna tersebut.

Seperti yang telah kami sampaikan, data transponder untuk seluruh satelit cukup terkini. Jika Anda menemukan

Biasanya, kami juga ingin memeriksa Blind Scan yang detil. Terlihat bahwa Blind Scan yang detil menyelesaikan

tombol OK ketika menonton salah satu saluran tersebut akan memunculkan daftar saluran. Ketika melihat daftar saluran tersebut, Anda akan menemukan bahwa diperlukan penyusunan terhadap daftar tersebut. Misalnya, daftar tersebut mencakup saluran FTA dan yang diacak. Jika Anda tidak peduli terhadap saluran yang diacak, tombol yang berwarna pada kendali jarak jauh akan memainkan peranannya lagi. Dengan menampilkan daftar saluran, menekan tombol merah akan menampilkan saluran yang hanya FTA. Menekan sekali lagi untuk menampilkan saluran yang diacak, dan menekan sekali lagi untuk mengembalikan ke daftar semula. Mengurutkan daftar saluran juga mudah: dengan daftar saluran ditampilkan, tekan tombol fungsi berwarna kuning akan menampilkan kriteria pengurutan yang tersedia (berdasarkan abjad, nomor saluran, satelit atau normal).

Receiver Sonicview kompatibel dengan DiSEqC 1.0/1.1/1.2/USALS memungkinkan Anda untuk menghubungkan dua masukan tuner ke nyaris seluruh konfigurasi antena, dari antena tunggal hingga sistem bermotor. Satelit FTA yang paling terkenal di Amerika Utara adalah INTELSAT AMERICAS 5 di 97 BB. Sehingga, biasanya, kami ingin memulai pengujian dengan memasang receiver ini pada satelit tersebut. Karena kabel coax dihubungkan ke masukan IF-A pada receiver, kami memilih masukan Tuner 1 dalam menu Pengaturan Antena. Tipe LNB/frekuensi diatur ke tunggal dan 10750 MHz. Tentu saja, jika LNB yang digunakan menggunakan LOF yang berbeda, Anda dapat memilih LOF yang tepat yang terdapat dalam daftar. Jika LOF yang Anda inginkan tidak ada dalam daftar, Anda dapat memasukkannya dengan menggunakan keypad angka di kendali jarak jauh.



Menu Utama |

kesalahan ketika melihat daftar transponder untuk satelit tertentu, cukup mudah untuk meng-edit data tersebut. Namun jika Anda tidak ingin terganggu dengan mengerjakannya secara manual, maka fungsi Blind Scan pada Sonicview akan melakukan tugas pengkinian daftar transponder tersebut secara otomatis. Hanya dengan menekan tombol fungsi berwarna biru pada kendali jarak jauh pada saat sedang di layar Pengaturan Antena untuk memulainya. Anda bisa memilih pemindaian satelit tunggal atau pemindaian multi-satelit.

tugasnya hampir sama dengan pemindaian cepat dan mendapat jumlah saluran yang sama.

Sehingga, sekarang kita memiliki seluruh saluran baru ini dalam daftar saluran. Menekan

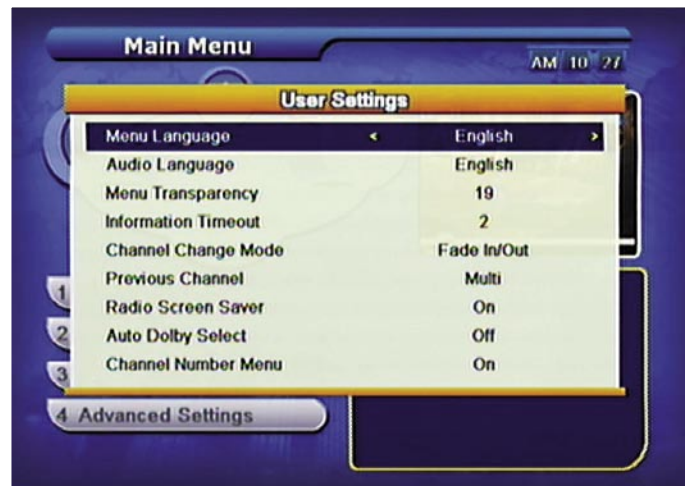
Dari daftar saluran Anda juga dengan mudah beralih masukan tuner dengan menekan tombol fungsi berwarna hijau. Receiver SV-360 Elite PVR juga terdapat mode multi-gambar yang menampilkan gambar tetap 4, 9 atau 16 saluran yang berbeda dalam satu layar sehingga Anda bisa mendapatkan tinjauan yang cepat tentang apa yang ditayangkan oleh saluran TV yang ada. Anda bisa menggunakan tombol panah untuk berpindah antar gambar dan menekan tombol OK ketika menemukan sesuatu yang menarik untuk ditonton. Receiver selanjutnya akan beralih ke saluran tersebut.

Selanjutnya kami memilih transponder dari daftar yang telah terprogram untuk satelit ini. Tombol panah kiri/kanan di kendali jarak jauh digunakan untuk memilih transponder yang aktif atau Anda dapat menekan tombol OK untuk melihat daftar seluruh transponders yang tersimpan untuk satelit yang dipilih. Untuk INTELSAT AMERICAS 5, daftar transponder cukup terkini. Sama halnya dengan transponder untuk seluruh satelit lainnya.

Perpindahan antar saluran dalam transponder yang sama memerlukan waktu satu detik. Peralihan saluran

Dengan menampilkan daftar transponder, Anda dapat memilih transponder yang diinginkan dengan menyorotnya dan menekan tombol OK, atau jika perlu, Anda bisa menambah, edit atau menghapus transponder langsung di layar ini dengan menekan tombol fungsi berwarna di kendali jarak jauh. Dengan

Untuk pengujian ini kami memilih untuk pemindaian satelit tunggal. Kami juga memilih untuk memindai kedua polarisasi (vertikal dan horizontal) meskipun satu atau lainnya telah dipilih sebelumnya. Selanjutnya kami memilih pemindaian Cepat daripada pemindaian Detil.



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antar transponder yang berbeda memerlukan waktu 1,5 detik sebelum gambar muncul. Sekarang Anda akan menikmati receiver ini namun agak kurang menyenangkan dalam penjelajahan saluran.

Tentu saja, terdapat saluran yang tidak pernah Anda tonton atau tidak perlu diganti namanya. Dalam hal ini Anda hanya perlu masuk ke layar Edit Saluran - sub-kategori kedua pada Menu Instalasi. Setelah berada dalam layar Edit Saluran Once, video dari saluran yang ditonton terdapat di jendela kecil di sebelah kanan layar dengan daftar saluran di sebelah kiri. Bahkan grafik kekuatan dan kualitas sinyal juga disertakan. Ketika berada di layar Edit Saluran ini, Anda dapat beralih saluran dengan bergeser ke saluran lain dan menekan tombol OK pada kendali jarak jauh. Sekali lagi, tombol fungsi berwarna pada kendali jarak jauh membuatnya mudah untuk menghapus, diganti nama atau dikunci. Anda juga bahkan bisa mengurutkan saluran dari layar ini! Informasi versi Perangkat Lunak dan fungsi reset pabrik juga dapat diakses dari menu Instalasi.

Layar Pengaturan Sistem terbagi dalam empat sub-kategori dan memungkinkan Anda untuk mengatur receiver sesuai dengan keinginan Anda. Misalnya, dari layar Pengaturan Pengguna Anda bisa mengubah bahasa menu, mengatur transparan menu, mengubah berapa lama Info bar ditampilkan dan banyak lagi. Dari layar Pengaturan A/V Anda bisa mengubah NTSC dan PAL, mengubah rasio aspek (4:3 atau 16:9) atau memilih mode tampilan (letterbox, pan & scan atau layar penuh). Layar Pengaturan Waktu memungkinkan Anda untuk

mengatur jam. Jam dapat diatur secara manual atau otomatis, daylight savings time dapat diaktifkan, dsb. Selanjutnya tentu saja terdapat saluran yang tidak ingin ditonton oleh anak-anak. Layar Kendali Orang tua memungkinkan untuk membatasi acara yang tidak sesuai. Layar ini juga memungkinkan Anda untuk membatasi akses terhadap receiver, akses menu dan akses saluran yang diacak.

Perekam Video Pribadi

Ya, ini adalah receiver PVR, tapi jika Anda suka observasi, Anda mungkin telah menemukan sesuatu: di mana hard disknya? Anda haruslah memiliki hard disk untuk merekam, bukan? Baiklah, receiver SV-360 Elite PVR memang tidak hadir dengan hard disk terpasang. Akan tetapi, Anda harus menghubungkan peranti penyimpanan eksternal. Ini bisa berupa hard disk eksternal, tetapi bisa juga berupa peranti penyimpanan eksternal lainnya seperti stik memori. Di sinilah peranan dari tiga terminal USB 2.0.

Untuk pengujian kami menggunakan stik memori 4 GB yang kami miliki. Stik memori dapat dicolokkan ke salah satu dari tiga terminal USB yang ada. Kami menggunakan terminal USB di panel depan untuk keleluasaan. Merekam acara semudah menekan tombol Rekam pada kendali jarak jauh. Ketika tombol Rekam telah ditekan, receiver segera memulai perekaman acara saluran yang ditonton. Dengan menekan tombol stop akan mengakhiri perekaman. Jika Anda ingin merekam acara pada saluran kedua ketika masih merekam acara

pada saluran yang pertama, hanya dengan beralih ke saluran yang ingin direkam dan mengulangi proses seperti yang telah disebutkan di atas. Kedua saluran tersebut akan direkam pada saat yang bersamaan. Menekan tombol stop akan memberikan pilihan untuk menghentikan satu saluran atau keduanya.

Untuk melihat daftar seluruh hasil rekaman yang telah tersimpan, masuk ke menu PVR pada receiver. Anda bisa menggunakan tombol panah untuk menjelajahi daftar tersebut dan menekan tombol Play pada kendali jarak jauh untuk memainkan pilihan yang diinginkan. Pada kendali jarak jauh terdapat tombol untuk mem-pause, putar-ulang atau memajukan rekaman pada berbagai tingkat kecepatan dan memutar dengan gerakan lambat.

Juga terdapat delapan pengatur waktu sehingga Anda bisa mengatur receiver untuk merekam acara favorit Anda ketika Anda sedang tidak berada di rumah. Bahkan terdapat juga fungsi time shift untuk digunakan pada saat ada tamu yang datang ketika Anda sedang menonton film favorit Anda.

Receiver juga hadir dengan sejumlah fitur lainnya seperti gambar-dalam-gambar (PIP). Dapat juga digunakan sebagai pemutar MP3 dan penayang JPEG sehingga Anda bisa memperlihatkan foto-foto yang Anda ambil pada saat liburan kepada teman Anda.



Daftar Saluran |



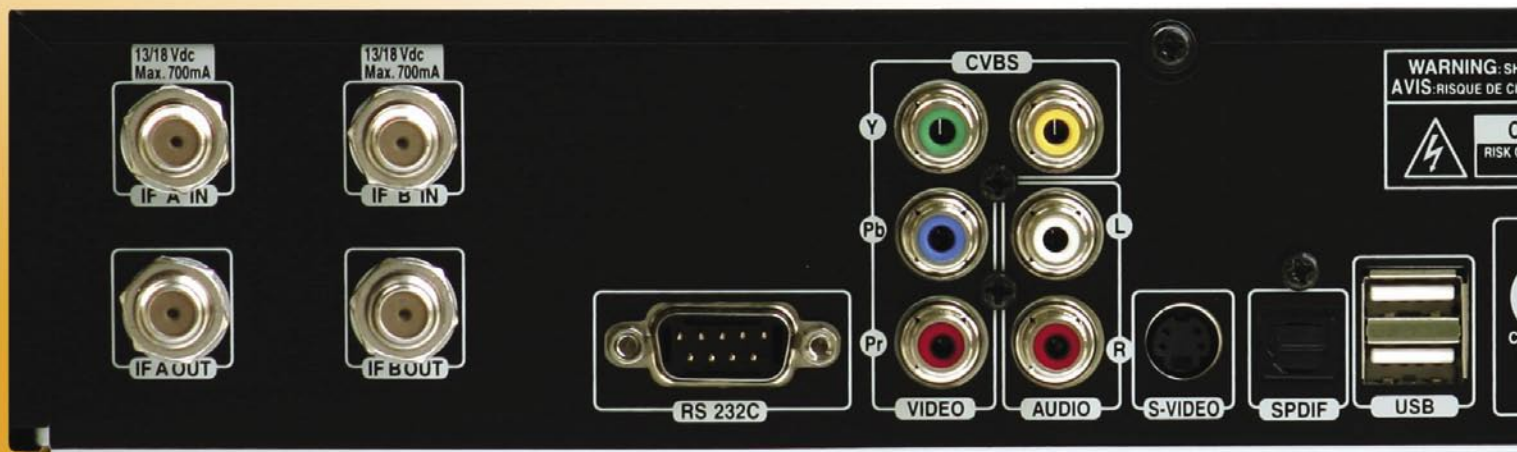
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TECHNIC

DATA

Manufacturer	Sonicview USA, Inc., San Diego California, USA
Tel	+1-760-842-8931
E-mail	sales@sonicviewusa.com
Model	SV-360 Elite PVR
Function	Digital Satellite PVR Receiver with two tuners
Channel Memory	6000
Satellites	195 (plus 5 user-settable)
Symbolrate	1-45 Ms/sec.
SCPC Compatible	yes
USALS	yes
Audio/Video Outputs	yes
Component Outputs	yes (Y, Pb, Pr)
S-VHS Output	yes
S-PDIF Output	yes
USB 2.0 Interface	yes, three
Power Supply	95-250VAC, 50/60Hz

Opini Ahli



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+

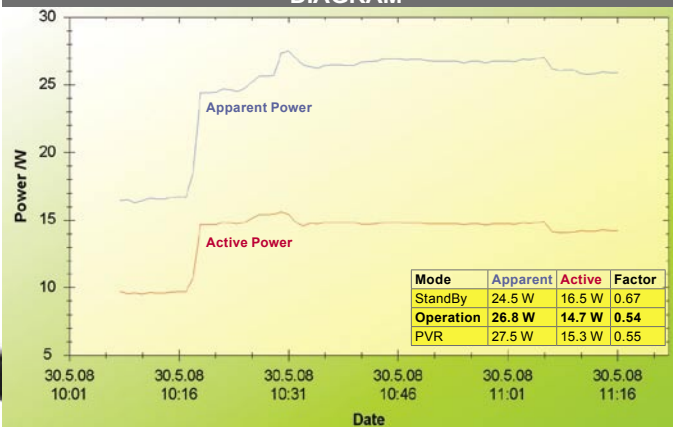
Sonicview SV-360 Elite PVR merupakan salah satu receiver yang paling mudah digunakan. Seluruh menu sebagian besar tidak perlu penjelasan meskipun buku petunjuk (hanya berbahasa Inggris) juga disertakan jika timbul pertanyaan. Sebagian besar fungsi peranti lunak yang kritis dapat diakses hanya dari satu lokasi: tidak perlu menelusuri keseluruhan layar menu yang berbeda untuk menemukan yang Anda inginkan. Ini benar-benar receiver yang sesuai untuk anggota keluarga yang hadir dengan berbagai fitur yang akan membuat pengguna gembira.

-

Receiver ini tidak memiliki keluaran modulator, tetapi karena TV modern yang ada sekarang memiliki lebih dari satu masukan, hal ini bukan menjadi masalah besar. Juga tidak memungkinkan untuk mengatur batas frekuensi pada Blind Scan.

ENERGY

DIAGRAM



Setelah Stand-By receiver dinyalakan pada pukul 10:18. Slightly lonjakan dari 14,7 W ke 15,3 W muncul ketika memori USB dicolokkan. Pada pukul 11:05 receiver kembali ke posisi Stand-By dengan hard disk masih aktif.



Venus New Millennium II-EP

Memudahkan kendali motor

Motor Venus terpasang pada antena Venus yang ditampilkan dalam TELE-satelit edisi sebelumnya. Receiver satelit Venus Millenium II-EP dirancang untuk mengendalikan motor ini.

Saat ini Asia banyak memimpin dalam teknologi receiver satelit, dengan kemunculan receiver dari negara seperti China dan Korea. Di sini, kami bertemu receiver kedua yang telah kami uji dari Indonesia. Dibuat dengan jelas untuk pasaran Asia, ini adalah receiver free-to-air biasa dengan terpasang positioner 36V tradisional. Hadir dengan merk Venus, yang telah dikenal oleh pembaca untuk antena piringan inovatif yang telah kami uji di edisi 08/2008 dan receiver ini khusus dirancang untuk bekerja dengan motor Venus, yang akan kami uji dalam edisi mendatang.

Receiver dikemas dengan kotak berwarna hitam, berukuran 300x200mm dan tinggi 60mm. Kendali dasar tersedia di panel depan, terdapat tampilan LED merah untuk nomor saluran. Kendali jarak jauh berwarna abu-abu dapat melakukan semua tugas, namun akan lebih menarik jika warnanya sesuai dengan warna receiver itu sendiri. Koneksi di bagian belakang terbatas pada yang diperlukan



saja. Terdapat satu masukan antena serta terminal pegas untuk menghubungkan motor 36V. Tidak ada keluaran Scart atau digital - hanya sepasang keluaran video komposit dan antena UHF. Keluaran audio

Stereo juga tersedia, dan panel belakang juga dilengkapi dengan konektor 4-pin RS232.

Receiver yang kami uji ini hadir dengan buku pedoman dalam bahasa Indonesia saja.

Tidak diragukan dan jika New Millennium dijual di negara lain, maka akan diperlukan buku pedoman dalam bahasa yang diinginkan. Namun uji yang bagus tentang kemudahan penggunaan receiver adalah apakah bisa

digunakan tanpa adanya buku pedoman. Di menu "Pengaturan Sistem" memungkinkan masuk ke layar pengaturan receiver di mana menu "Bahasa" dapat diganti antara bahasa Indonesia dan bahasa Inggris. Menyuna

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cukup sederhana, dan teksnya agak kaku.

Pengaturan Dasar

Positioner internal bekerja sebagaimana seperti positioner terpisah yang telah pernah kita gunakan sebelumnya. Sebanyak 60 posisi tersedia untuk disimpan, yang selanjutnya dapat diberi ke satu atau lebih satelit ketika memindai saluran baru. Setiap posisi satelit hanya mengacu pada nomor dengan nama satelit diatur kemudian jika saluran telah dipindai. Untuk itu harus dibuat catatan agar kemudian tidak terjadi kebingungan!

Tidak ada pengaturan otomatis dengan menggunakan satelit pada kurva yang bisa terlihat, juga tidak ada provisi untuk mengatur batas timur dan barat dalam receiver. Hal ini berarti pengguna harus memastikan pembatas di motor antena telah dipasang secara benar untuk menghindari kecelakaan. DiSEqC disertakan untuk berpindah hingga empat LNB. Setelah posisi satelit telah diatur, akhirnya tiba saatnya untuk pemindaian saluran. 18 satelit yang mencakup wilayah Asia telah terprogram dalam receiver, sehingga jika dapat diterima akan mudah untuk memberikan nomor posisi satelit. Satelit baru bisa ditambahkan jika diperlukan, dengan nama yang

bisa diubah. Tombol atas/bawah bisa digunakan untuk mengatur abjad untuk nama satelit

Penambahan saluran baru disederhanakan hingga minimum. Jika seperti saya, Anda tidak menyukai kebingungan yang disebabkan oleh pemindaian jaringan dan daftar transponder, Anda beruntung – hal ini tidak terjadi. Saluran hanya bisa ditambahkan ke receiver dengan blind scan atau data frekuensi diisi secara manual.

Pemindaian Blind menunjukkan satu kekurangan dari peranti lunak receiver. Dapat mengendalikan LNB universal dengan sangat baik dengan kendali penuh atas LOF dan 22kHz, tidak ada fasilitas untuk memindai band tinggi dan rendah dalam satu sapuan tunggal. Untuk mencakupi keseluruhan Ku band, kita harus melakukan dua pemindaian. Pertama, dengan LOF diatur pada 9750, yang akan memindai hingga 11,500 GHz. Setelah itu, kita harus mengganti LOF menjadi 10600, dan aktifkan 22kHz, dan memindai lagi untuk mendapatkan sisa saluran. Receiver mengingat pengaturan LNB untuk setiap saluran, sehingga setelah satu kali tersimpan akan muncul dengan benar ketika dipilih.

Pemindaian blind agak lambat walaupun memilih pemindaian cepat. Kedua pemindaian yang



Menu Utama

diperlukan untuk menemukan semuanya di HOTBIRD memerlukan waktu 56 menit, tetapi dengan sebagian besar satelit Asia yang memancarkan sedikit transponder hal ini bukan merupakan masalah. Menekan salah satu tombol di kendali

jarak jauh akan membatalkan pemindaian, menyimpan saluran yang telah ditemukan. Duplikasi Saluran tidak ditambahkan di akhir daftar, kecuali parameternya berbeda. Sebagaimana kebanyakan receiver blind scan, simbol rate yang ditemukan agak kurang akurat, seringkali sekitar 30 di atas yang sebenarnya. Penambahan saluran tersendiri lebih baik dilakukan secara manual, sehingga menggunakan

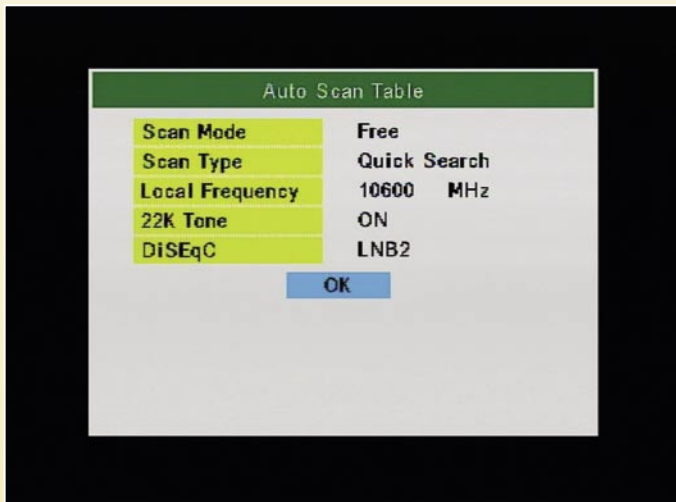


daftar SatcoDX adalah sangat berguna. Frekuensi, polaritas dan simbol rate adalah parameter yang diperlukan. Kali ini seluruh saluran yang ditemukan ditambahkan di akhir daftar, apakah merupakan duplikasi atau tidak.

Penyusunan saluran setelah dipindai dan disimpan dijaga pada level dasar. Setiap isian dalam daftar saluran dapat dipindahkan ke atas atau ke bawah, ditandai untuk dihapus, atau ditambahkan

Penggunaan Sehari-hari

Inilah saatnya untuk menonton saluran TV, menekan tombol OK akan menampilkan daftar seluruh saluran yang telah tersimpan. Daftar ini bisa dikurangi menjadi berdasarkan setiap saluran dengan menggunakan tombol MENU. Tombol P+ dan P- memungkinkan pemilihan satelit sebelum dan sesudahnya.



Pilihan blind scan

ke dalam salah satu daftar favorit. Daftar saluran tidak bisa dilihat atau diedit tersendiri - Favorit hanya bisa ditempatkan dengan menemukan simbol hati dengan menjelajahi daftar utama yang belum disortir. Tombol P+ dan P- digunakan untuk berpindah antar saluran yang telah ditandai sebagai favorit. Saluran Radio ditambahkan dan diedit dengan cara yang sama seperti TV, namun dari daftar dan menu yang berbeda.

Daftar ini secara awal menampilkan seluruh satelit, sehingga mengingat nomor saluran atau menggunakan fungsi favorit mungkin lebih memadai daripada mengulang-ulang menjejahi daftar saluran. Pencarian menurut abjad yang umum ada di receiver modern merupakan bantuan tambahan di sini. Jika memilih satu saluran untuk ditonton dari daftar ini, gambar akan membesar dari jendela kecil untuk memenuhi



Proses blind scan

layar, yang merupakan sentuhan kecil yang manis.

Kualitas gambar cukup bagus, mengingat bahwa hanya tersedia pilihan keluaran UHF atau video komposit. Transmisi layar-lebar disediakan, hingga

titik ini. Receiver selalu mengasumsikan TV 4:3 yang digunakan, dan pita hitam digunakan di atas atau bawah layar jika dideteksi transmisi 16:9. Tontonan setiap hari, setelah kita mengatur saluran dan satelit seperti yang kita



Daftar Saluran



perlu, cukup sederhana dan mudah. Perpindahan antar saluran cukup cepat, dan tombol KELUAR digunakan untuk berpindah ke saluran yang ditonton sebelumnya.

Saluran Audio dan PID dapat segera diedit jika diperlukan, yang merupakan bonus jika saluran mengubah PID-nya - kita tidak perlu khawatir untuk kembali ke pemindaian blind atau memasukkan frekuensi secara manual untuk mengubah

Kesimpulan

Setelah pengaturan awal, setiap kali menonton TV dan menjelajahi saluran, receiver New Millennium II-EP melakukan pekerjaannya dengan baik, jika tidak banyak memerlukan edit lebih lanjut dan sortir. Receiver ini adalah yang terbaik jika untuk menangani motor Venus yang dapat dilakukan dengan sempurna. Beberapa bagian menu perlu dirapikan atau dibuat lebih mudah untuk dinavigasi, rancangan dasarnya

Opini Ahli



Andy Middleton
TELE-satellite
Test Center
UK

+

Penyimpanan data saluran yang tidak rumit Mudah dalam penanganan motor 36 V Blindscan membuatnya berguna bagi pehobi satelit

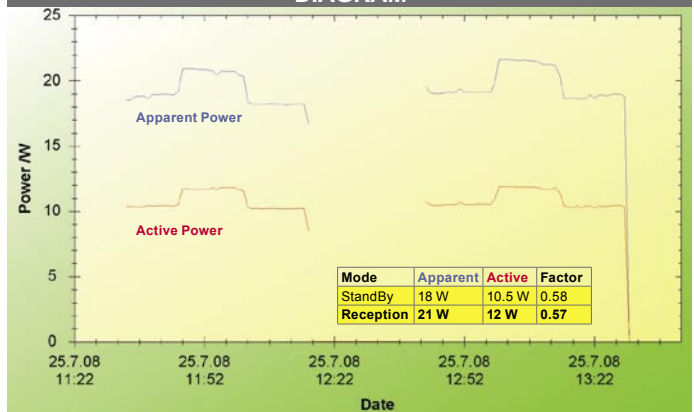
-

Tidak ada keluaran digital atau Scart

TECHNIC DATA

Manufacturer	PT. Subur Semesta, Jln. Kamal Raya No. 8, RT. 0014/RW. 09 Tegal Alur, Jakarta Barat 11820
Tel	+62 21 5559733
Fax	+62 21 5559805 / 5555009
Email	subur@dnet.net.id
Model	Venus New Millennium II-EP
Satellites	60
SCPC compatible	yes
USALS	No
DiSEqC	1.2
Scart connectors	0
Symbol rates	2-45 Ms/sec
Audio/Video outputs	4 (two video + left/right audio)
UHF output	Yes, channels 21-69
0/12 volt output	No
Digital audio output	No
EPG	No
C/Ku-band compatible	Yes
Power supply	100-240 VAC, 50-60Hz

ENERGY DIAGRAM



Informasi saluran

detil yang kecil ini. Tombol INFO memberikan layar yang sangat membantu berisi rincian nama dan parameter saluran, serta memungkinkan fine-tuning yang cepat untuk posisi antena piringan.

Tombol EPG di kendali jarak jauh memberikan tampilan "PIP" 9 saluran. Seperti biasa, hanya satu yang disiarkan dan sisanya berupa tampilan diam. Tidak tersedia teletext.

berarti bahwa saya memiliki sedikit masalah menemukan cara menggunakan receiver tanpa harus mencoba membaca buku panduan berbahasa Indonesia, sehingga pengujian dapat dilakukan dengan mudah.

Rancangan receiver ini membuka spektrum penerimaan multi-satelit bagi orang yang ingin menghemat biaya dengan receiver yang memiliki positioner terpasang di dalamnya.



AWARD Winning Satellite Receivers

TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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



TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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



TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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



TELE SATELLITE AWARD & BROADBAND
10-11/2008

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

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



TELE SATELLITE AWARD & BROADBAND
08-09/2008

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

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



TELE SATELLITE AWARD & BROADBAND
08-09/2008

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

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



TELE SATELLITE AWARD & BROADBAND
06-07/2008

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

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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

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


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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

TOPFIELD TF7720HSIR
Ideal HDTV Receiver for FTA and Irddeto encrypted channels

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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

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



TELE SATELLITE AWARD & BROADBAND
10-11/2007

TECHNOTREND S2-3650CI
HDTV Reception with Many Features for Little Money

Manufacturer	DVB-Shop
Website	www.dvbshop.net
Function	USB box for reception of DVB and DVB-S2 in SDTV/HDTV
DVB-S2/LAN	● / —
Channel Memory	unlimited
DiSEqC	1.0
S-Video/HDMI	— / —
Scart/Digital Audio	— / —



TELE SATELLITE AWARD & BROADBAND
10-11/2007

JIUZHOU DVS-2018BS
Very Stable, Solid Receiver for Professional Use

Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Professional digital satellite receiver with 2 CI slots
DVB-S2/LAN	— / —
Channel Memory	!
DiSEqC	—
S-Video/HDMI	— / —
Scart/Digital Audio	— / —



TELE SATELLITE AWARD & BROADBAND
10-11/2007

TECHNISAT DIGITSIM S2
Exceptional Mini-receiver with Very High Signal Sensitivity and Ease-of-Use

Manufacturer	TechniSat Digital
Website	www.technisat.com
Function	Digital satellite receiver with two Systems for SIM Cards
DVB-S2/LAN	— / —
Channel Memory	4000
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	— / —
Scart/Digital Audio	● / —



Spaun di Usia 40 tahun

Menuju Dekade Baru dengan Banyak Produk Baru

Alexander Wiese

Sebenarnya, judul di atas tidak begitu tepat; perusahaan Spaun tidak merayakan ulang tahunnya yang ke 40 sekarang. Tetapi Spaun begitu penuh energinya dan telah siap untuk memperkenalkan sejumlah produk barunya pada perayaan ulang tahunnya, yang kami tidak sabar lagi menunggunya untuk menemukan sejarah panjang perusahaan ini.

Hampir seluruh pembaca TELE-satelit akan mengasosiasikan nama Spaun dengan komponen distribusi satelit berkualitas tinggi. "Kualias buatan Jerman" adalah motto mereka; misi Spaun adalah untuk memastikan bahwa kualitas produk mereka selalu berada pada tingkatan yang paling tinggi.

Lebih jauh tentang itu selanjutnya. Mari kita lihat lebih dekat Spaun itu sendiri: yaitu perusahaan yang bisa ditemukan di bagian baratdaya Jerman. Pendiri perusahaan ini, yang kini telah memiliki hampir 100 karyawan, adalah Friedrich Spaun. Dia menjelaskan kepada kami bagaimana dia memulai perusahaan ini: "Semuanya bermula dari meja dapur pada tahun 1969." Pada saat radio FM baru dipancarkan di Jerman dalam stereo. Segera menjadi jelas bahwa kebanyakan radio yang digunakan tidak memiliki sinyal antena yang kuat – penguat diperlukan untuk meningkatkan rasio signal-to-noise. "Saya membuat penguat yang dipasang pada antena dalam ruangan yang banyak

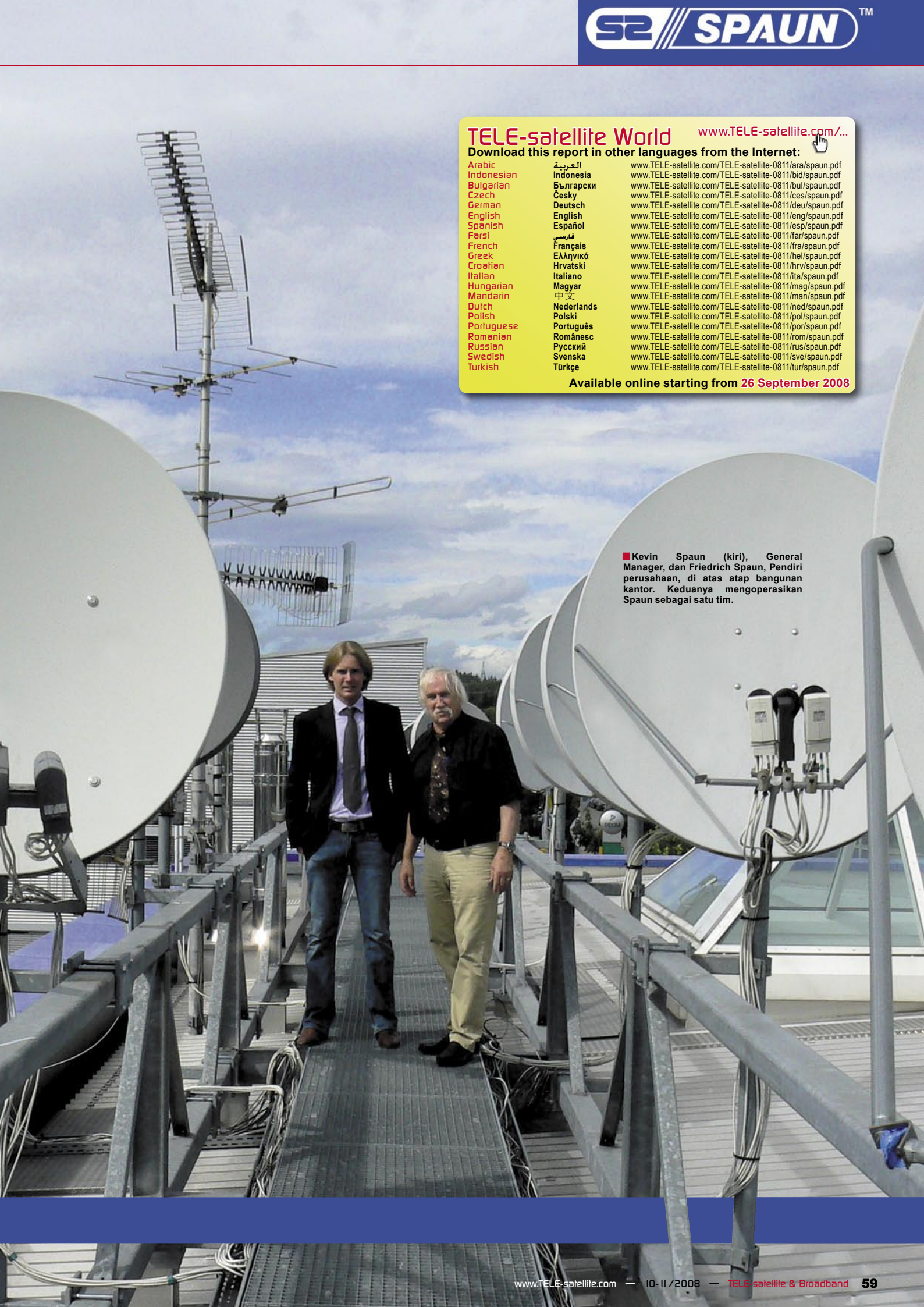
dibuat oleh pabrikan besar", kenang Friedrich Spaun. Ini adalah awal mula perusahaan perseorangannya.

Pada tahun 1972 perusahaan kecilnya begitu sukses sehingga dia mampu mempekerjakan beberapa karyawan pertamanya. "Pada tahun 1974 produksi berbagai penguat dan penyalur pasif dimulai", Friedrich Spaun menjelaskan. Tentu saja ini adalah komponen untuk televisi terestrial dan Spaun hanyalah pabrikan OEM untuk perusahaan Jerman lainnya. Pada tahun 1980 penyaluran penguat untuk TV kabel dimulai.

Selanjutnya produksi dilakukan di sebuah rumah kontrakan, namun semua berubah pada tahun 1988: "Saat itulah kami membangun fasilitas produksi kami di Singen yang masih beroperasi sampai sekarang, sekaligus menjadi pelopor", komentar Friedrich Spaun sambil menunjukkan dinding luarnya yang terbuat dari aluminium: "Untuk beberapa tahun kami

■ Tampak bangunan kantor perusahaan Spaun di Singen, baratdaya Jerman. Di belakang bangunan hingga ke kanan dapat dilihat fasilitas produksi untuk multiswitch Spaun.





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Available online starting from 26 September 2008

■ Kevin Spaun (kiri), General Manager, dan Friedrich Spaun, Pendiri perusahaan, di atas atap bangunan kantor. Keduanya mengoperasikan Spaun sebagai satu tim.



■ Seorang konsumen memiliki masalah. Steffen Kuck adalah Manager Dukungan Teknis dan membantu konsumen Spaun setiap hari mulai pukul 8 pagi hingga pukul 12 siang, dan dari pukul 1 siang hingga pukul 5 sore. Salah satu perangkat kerjanya adalah CD-ROM SatcoDX yang berisi data satelit seluruh dunia.



■ Media komunikasi yang penting adalah internet. Perancang situs Patrick Keil terlihat sedang memantau pengunjung www.spaun.de
 "Kami memiliki sekitar 40.000 pengunjung setiap bulan", Patrick Keil menjelaskan. Di monitor dia menunjukkan jumlah pengunjung situs. Dengan adanya Geomapping, dia mengetahui secara pasti asal dari pengunjung tersebut dan bisa berkomunikasi dengan mereka menggunakan pemunculan jendela. Kejutannya: program ini dikembangkan bersama antara Kevin Spaun dengan Patrick Keil, dan bagian terbaiknya adalah - ini adalah program gratis dan dapat digunakan oleh siapa saja yang ingin mendapat informasi lebih rinci tentang pengunjung situs mereka, berapa lama di sana, apa yang dicarinya, dan dari mana asalnya, dan semuanya ini adalah langsung! Ini adalah link-nya: www.livezilla.net

menjadi pusat referensi bagi pabrikan dinding ini." Selanjutnya dia menjelaskan bagaimana Spaun berakhir dengan warna-warna perusahaan mereka: "Itu adalah warna-warna pada dinding bangunan kami, biru dan perak, dan kami memutuskan untuk menggunakan warna ini sebagai identitas perusahaan kami."

Spaun hanya tampil dengan satu merk tersendiri sejak 1991. Yaitu sejak kejatuhan tembok Berlin. Hingga saat itu Spaun hanya menyalurkan produk mereka ke Jerman Barat; belum berpikir untuk mengekspor produk mereka. Pasaran baru adalah di Jerman Timur yang membawa beberapa kesempatan baru yang kemudian diputuskan oleh Friedrich Spaun: "Sekarang kami akan mendistribusikan produk dengan merk kami sendiri!"

Pada tahun 1993 produknya yang berhasil adalah multiswitch untuk dua satelit dan satu masukan TV terestrial diikuti dengan model empat dan delapan masukan satelit. Produk-produk ini segera diekspor ke negara-negara tetangga. Saat ini 50% dari produk mereka diekspor dengan 30% dikirim ke negara Uni Eropa serta 20% untuk luar Eropa. Total penjualan untuk Spaun adalah antara 12 dan 15 juta Euro setiap tahunnya.

Di sinilah hadir Kevin Spaun. Dia mengambil alih operasional perusahaan ayahnya Friedrich Spaun sejak awal 2008. "Namun kami menjalankan perusahaan ini sebagai tim", konfirmasi mereka berdua bersamaan.

Kevin Spaun ingin memperluas bisnis ekspor mereka: "Pada saat ini kami sedang berusaha untuk mendapatkan pasaran di Amerika Utara; kami mencari penyalur setempat dan juga ingin membuka kantor penyalur kami sendiri di Amerika Serikat", Kevin Spaun menjelaskan, "kami juga ingin memperkuat kehadiran kami di Timur Tengah."



■ General Manager Kelvin Spaun juga kadang-kadang ingin terlibat dengan menguji multiswitch. Sinyal antenna dari atap berakhir di sini dan dapat dihubungkan ke multiswitch dengan berbagai pengaturan. Masalah konsumen juga dapat diuji di sini.



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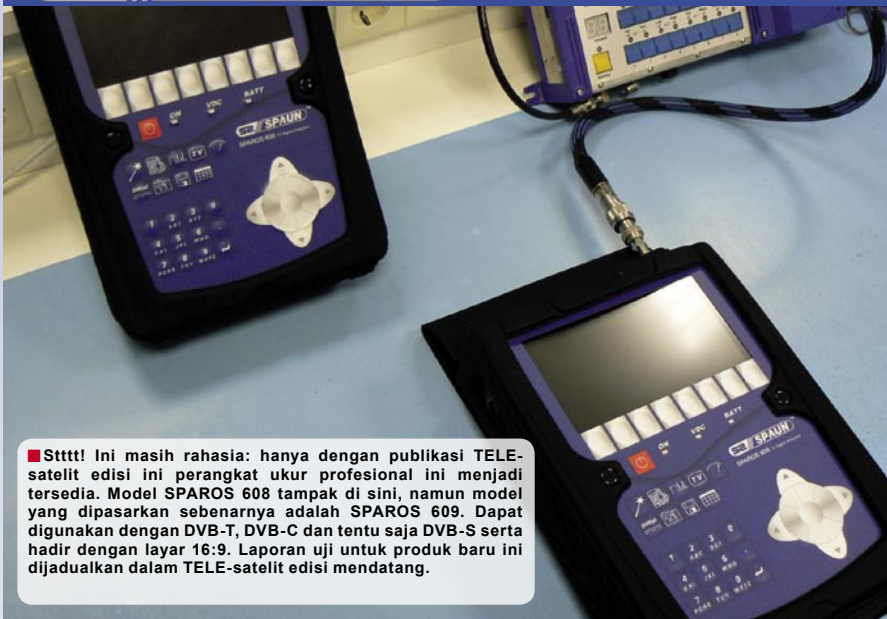
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■ Stttt! Ini masih rahasia: hanya dengan publikasi TELE-satelit edisi ini perangkat ukur profesional ini menjadi tersedia. Model SPAROS 608 tampak di sini, namun model yang dipasarkan sebenarnya adalah SPAROS 609. Dapat digunakan dengan DVB-T, DVB-C dan tentu saja DVB-S serta hadir dengan layar 16:9. Laporan uji untuk produk baru ini dijadualkan dalam TELE-satelit edisi mendatang.

Spaun menawarkan hingga 200 produk yang berbeda, yang menjadi produk laris adalah multistwitch dengan 5, 9 dan 17 masukan dengan satu masukan untuk sinyal terestrial.

Kevin Spaun bangga dengan berbagai produk multistwitch-nya: "Dengan kekuatan 9 dan 17 unit masukan dasar kami sanggup membuat sistem untuk 3.000 pengguna", Kevin Spaun menjelaskan, "orang lain tidak bisa melakukannya." Referensi konsumen untuk sistem ini yang terbesar adalah, misalnya, Jumeirah Beach Residence Tower di Dubai, Nokia Development Center di Swedia, Kantor Pusat Microsoft di Prague, Eutelsat di Paris, Kedutaan Jepang di Berlin serta banyak, banyak lagi. Multistwitch Spaun juga bisa ditemukan di banyak kapal pesiar mewah, dan kenapa tidak, setiap kabin menginginkan sinyal satelit tersendiri, bukan?



■ Tampak bagian dalam gudang. Manager Pengiriman Christoph Reichle menceritakan, "Stok inventaris kami cukup hingga 3-4 minggu." Truk datang setiap hari untuk menjemput paket dan mengirimnya ke konsumen.

Akhirnya, kami juga ingin mengetahui tentang seluruh produk baru yang akan diperkenalkan pada ulang tahun perusahaan ini. Kevin Spaun mengambil napas dan memulai, "Pada musim semi tahun 2009 kami ingin memperkenalkan sistem distribusi serat optik ke pasar." Jenis sistem ini dapat melayani hingga 10.000 lebih pengguna.

Teknologi serat optik ini hanya akan digunakan dalam distribusi sinyal satelit. Sebelum sinyal ini mencapai pengguna akhir, sinyal serat optik dikonversi menjadi sinyal digital standar dan selanjutnya disalurkan melalui multistwitch ke receiver. "Ini hanya berfungsi untuk pemancar laser yang sangat kuat", Kevin Spaun menjelaskan dan melanjutkan bahwa banyak pulau-pulau buatan yang bermunculan di Dubai, "Hal ini memungkinkan kami untuk memberikan pelayanan ke seluruh pulau tersebut."

Produksi Multistwitch



■ Ini adalah papan sirkuit empat-lapis yang dikirim dari luar perusahaan. Ini adalah blok untuk membuat multistwitch.

Pada saat edisi ini Anda terima, produk baru akan diluncurkan yang tidak Anda bayangkan dari Spaun: perangkat ukur sinyal yang sangat profesional. "Yang bisa menerima sinyal DVB-S2 dan juga memiliki monitor 16:9", Kevin Spaun menjelaskan, "bahkan instalatir antena ingin menonton HDTV pada peranti ukur mereka", bahkan mereka bisa menggunakannya sebagai referensi.

Juga baru-baru ini tersedia dari Spaun adalah kabel coax - dengan merk "Spoax". Warnanya? Anda memiliki tiga tebakan. Tidak, bukan putih. Dan tidak, bukan hitam. Jika Anda menebak biru, Anda mungkin benar - warna perusahaan ini. "Dengan kabel coax ini dan konektor yang bersesuaian, kita bisa membangun sistem penyalur yang sempurna", ungkap Kevin tentang alasan pengembangan produk ini. Tujuannya? "Kami ingin Anda datang pada kami untuk segalanya." Dengan kata lain, mereka ingin menyediakan segala sesuatu yang Anda perlukan untuk penyaluran sinyal satelit yang terbaik.

Karena kita berada di topik ini, inovasi lain muncul: harga. "Tanpa kompromi terhadap harga", komentar Kevin, "kami memulai produk baru dengan harga yang terjangkau."



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■ Mesin otomatis ini memasang seluruh komponen pada papan sirkuit.



■ Karyawan Spaun bernama Habib Ferchichi memeriksa keseluruhan papan sirkuit. "Biasanya hanya satu dari 1.000 papan yang memiliki masalah", dia menjelaskan.



■ Ke mana perginya papan sirkuit tersebut? Ke dalam kotak logam, tentu saja. Dan dari mana asal kotak ini? Dari mesin pemroses ini yang terdapat satu rol lembaran logam dengan lebar 36mm dan tebal 0,7mm serta pelapis nikel 0,02mm. Satu rol baru berbobot 100 kg dan panjang 400 m.



■ Potongan lembaran logam ditempatkan oleh karyawan Spaun bernama Frank Heller ke dalam mesin penekan ini. Seluruh lubang untuk konektor "F" dilubangkan melalui mesin ini.



■ Di atas adalah sepotong lembaran logam datar dengan lubang untuk konektor "F". Di bawah, potongan yang sama dengan sisi yang berlekuk. Dan ini adalah proses dari lembaran logam menjadi salah satu sisi multswitch.



■ Ini adalah mesin otomatis pembuat kerah udara. Karyawan Spaun bernama Herbert Aichem menghasilkan sekitar 800 kerah ini setiap jam. Perangkat ini digunakan sebagai penyaring saluran kembali.



■ Kerah udara ini sangatlah kecil.

Produk Premium yang telah lama tersedia dari Spaun telah dikembangkan pada awal tahun 2008 yang mencakup produk standar. Segera setelah penerbitan edisi ini, Kelas Ringan akan memulai debutnya di pasar. Kevin Spaun menjelaskan hubungan tersebut: "Benar-benar tidak ada perbedaan dalam kualitas, hanya dalam apa alat ini hadir." Sebagai contoh multswitch kelas Premium hadir dengan kendali level yang bisa diatur, fitur ini tidak tersedia pada produk Standar dan Ringan yang menghasilkan dua pilihan. "Situasi harga terlihat seperti ini: jika produk Premium berharga 100%, maka kelas Standar bisa menjadi 75%, serta kelas Ringan bisa menjadi 50%", Kevin menjelaskan.

Jadi apalagi yang baru? "Switch wideband untuk pasaran Amerika Serikat", balas Kevin, "yang menggunakan rentang frekuensi di bawah (!) band IF standar untuk distribusi sinyal HDTV dari TV-berbayar provider DirecTV." Lebih khusus lagi, yang berarti rentang dari 250 hingga 950 MHz yang akan digunakan untuk distribusi IF satelit sebagai tambahan rentang standar 950 hingga 2050 MHz. TELE-satelit akan melihat lebih dekat produk yang inovatif ini yang juga akan menarik bagi pasar lain di luar Amerika Serikat, dengan laporan uji dalam edisi berikut. Patrick Schmid bertanggung jawab untuk produk ini. Dia adalah generasi cucu dari pendiri Friedrich Spaun dan juga telah menjadi karyawan perusahaan ini.

Friedrich Spaun juga mencari topik yang berbeda, yang belum terpikirkan sekarang, namun salah satu yang berperan penting di masa mendatang dan yang telah dilihat secara dekat dalam beberapa edisi TELE-satelit terdahulu: penggunaan energi dan efisiensi catu daya! "Saya dan anak saya bersama-sama membangun perusahaan baru, Spaun Power", Friedrich Spaun menjelaskan sambil menunjuk ke bangunan di seberang jalan, "Kami akan segera memulai produksi saklar catu daya, tidak hanya untuk penggunaan sendiri sekitar 150.000 catu daya setiap tahun, namun juga sebagai produk OEM."

Krisis energi yang semakin meningkat di seluruh dunia memaksa pencarian efisiensi catu daya. Namun ini bukan satu-satunya alasan. "Komponen yang paling penting dalam multswitch adalah catu daya", Friedrich Spaun menjelaskan, "di sini kami melihat banyak kegagalan." Friedrich Spaun cukup yakin: "catu daya yang menggunakan sedikit listrik juga diperlukan di mana-mana."

Beginilah cara Spaun, dalam usia 40 tahun, membangun dirinya sendiri kaki lain untuk berdiri pada saat yang bersamaan memperluas bisnis penyaluran sinyalnya dengan mencakup segala sesuatu yang diperlukan. Ini adalah strategi yang sangat berhasil dan yang dikonfirmasi oleh Friedrich Spaun dalam pernyataan perusahaannya:

"Setiap tahun bagi saya merupakan tahun yang berhasil dan menguntungkan." Seluruh keuntungan diinvestasikan kembali dalam perusahaan keluarga tersebut sehingga Spaun dengan mudah mengembangkan dirinya sendiri.

Ini adalah untuk 40 tahun lagi bagi Spaun!

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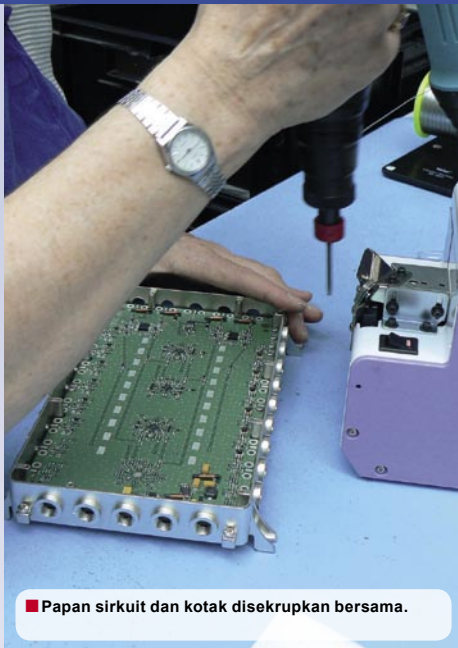
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■ Bagaimana konektor dimasukkan ke kotak? Konektor "F" disekrupkan ke lubang yang ada.

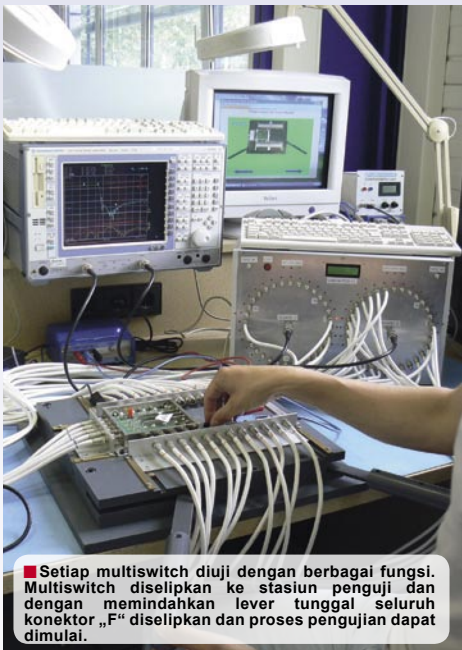


■ Papan sirkuit dan kotak disekrupkan bersama.



■ Untuk menyelesaikan proses ini, lid disekrupkan. Friedrich Spaun menjelaskan, "Ini adalah titik paling kritis: kotak yang berukuran kecil, lid yang fleksibel dapat menyediakan perlindungan EMV yang memadai. Dengan kotak yang lebih besar, tingkat pelindungan ini hanya bisa dicapai menggunakan sejumlah besar sekrup".

Kualitas untuk Pengukuran



■ Setiap multimeter diuji dengan berbagai fungsi. Multimeter diselipkan ke stasiun pengujian dan dengan memindahkan lever tunggal seluruh konektor „F“ diselipkan dan proses pengujian dapat dimulai.



■ Karyawan Spaun bernama Peter Fuchs menunjukkan kepada kami proses pengujian pada stasiun uji model 17-nya, terdapat sepuluh stasiun uji yang digunakan oleh Spaun. "Sebelum ini keseluruhan pengujian memerlukan waktu 50 menit", Peter Fuchs menjelaskan, "sekarang hanya tiga menit diperlukan dengan pengujian otomatis untuk setiap fungsi."



■ Setelah proses pengujian selesai, komputer akan mencetak nomor serial yang selanjutnya ditempelkan ke perangkat tersebut. Hasil pengujian disimpan dalam arsip, sehingga Spaun bisa mengambil hasil uji tersebut untuk masing-masing multimeter.



■ Selesai: Friedrich Spaun dengan multimeter yang sudah lengkap: "Kami telah memberikan nomor serial untuk produk kami sejak tahun 2005", dia menjelaskan tentang jaminan kualitasnya. Dengan menggunakan nomor serial ini bagi permintaan internet. Dengan cara ini akan sangat mudah mengidentifikasi produk tiruan.



■ Meskipun jika multimeter Spaun lulus dari uji elektroniknya, namun masih belum jelas dari sisi teknisnya. Bagian ini diuji di sini: setiap multimeter ditempatkan dengan satu daya dalam unit uji bertegangan tinggi. Dengan cara ini Spaun menjamin bahwa multimeter tersebut 100% sempurna. Mereka sangat yakin dengan memberikan jaminan 5-tahun. "Kenyataannya", Friedrich Spaun menjelaskan, "kami memperbaiki produk yang berumur di atas 5 tahun". Sangatlah mudah, terdapat juga beberapa di antaranya yang masa garansinya diperpanjang. "namun untuk alasan legal, kami menjaganya pada 5 tahun", Friedrich Spaun menjelaskan.

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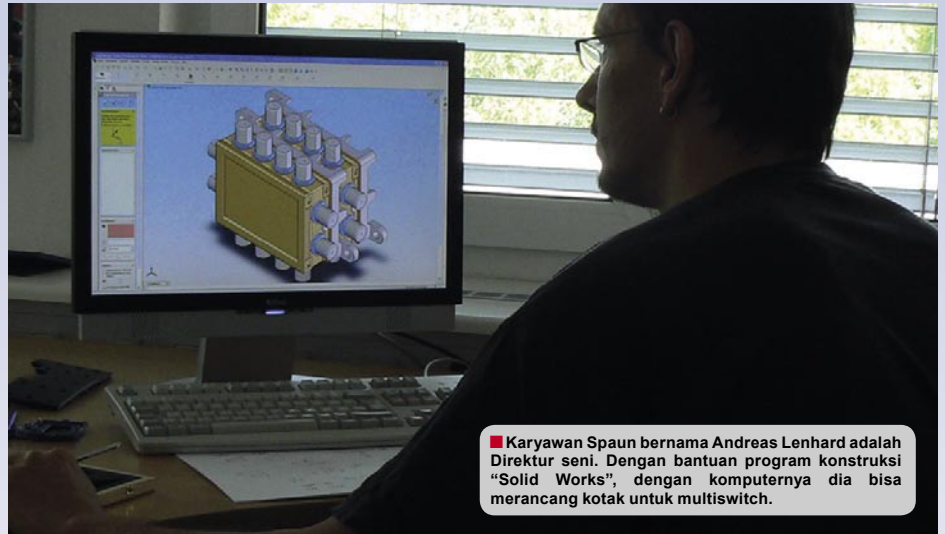
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Pemeriksaan Konstruksi dan Keamanan untuk Multiswitch



■ Multiswitch yang sudah selesai juga ditempatkan ke dalam lemari lingkungan untuk pengujian.
 “Spesifikasi kami menyatakan bahwa perangkat kami telah diuji pada suhu dari -20oC hingga +50oC”, Friedrich Spaun menjelaskan, “namun sebenarnya kami mengujinya dari -30oC hingga +60oC untuk benar-benar yakin.”



■ Karyawan Spaun bernama Andreas Lenhard adalah Direktur seni. Dengan bantuan program konstruksi “Solid Works”, dengan komputernya dia bisa merancang kotak untuk multiswitch.



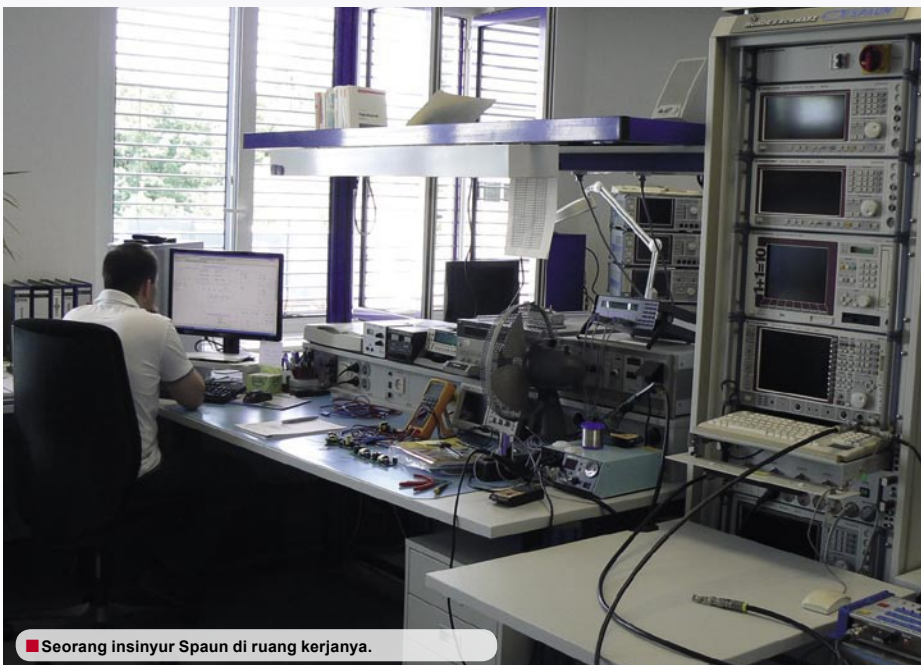
■ Tanpa perangkat pengukuran, tidak ada kerja. Di sini multiswitch baru dikembangkan.



■ Perangkat lunak ini membantu dalam pengembangan tata letak papan sirkuit.



■ Kualitas dan keamanan adalah milik bersama. Untuk menjamin bahwa switch Spaun benar-benar aman, sejenis pembangkit petir digunakan untuk mensimulasikan beban listrik.



■ Seorang insinyur Spaun di ruang kerjanya.



■ Dengan pembangkit burst ini berbagai tipe interferensi dapat disimulasi.



■ Seorang karyawan meletakkan multiswitch ke dalam lemari uji EMV. Dengan menggunakan pemancar wideband lima-watt, multiswitch diuji terhadap sinyal yang ada di dalam lemari uji. Atau sebaliknya: antena pada ujung sempit di lemari uji ditempatkan dalam posisi penerimaan untuk memeriksa sinyal interferensi yang dihasilkan oleh multiswitch. Di bagian depan adalah sabuk konveyor untuk mengukur interferensi dalam rentang 30 hingga 1000 MHz.

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Clark Electronics 70 Years Old and Full of Ideas

Clark Electronics in southern Holland right at the entrance to the Rotterdam harbor has been around since 1938. This year they are celebrating their 70th anniversary. What better reason for us to pay them a visit and find out what such a long-standing company is all about.

And wouldn't you know it: in their stockroom we found a large supply of vacuum tubes as they were used in broadcasting equipment 70 years ago. That's how Clark Electronics got started: with the production of AM radios. Later on came two-way radios for private and military applications. When it was no longer profitable to do their own manufacturing, Clark Electronics shifted over to wholesale electronic component suppliers – that was in the early 1960's.

In 1993 it was time: the satellite age started at Clark Electronics. The company, in a close relationship with manufacturers in Taiwan and China, began to develop and market receivers for the Benelux (Belgium, Netherlands, Luxembourg) region. In 2000 they entered into a cooperation with Top-field and finally with Arion. "Now we are in the process of developing our own brand name", revealed John Kamp, Director of Clark Electronics.

He doesn't think much of low prices: "If someone wants a satellite receiver, they'll buy one, price is not always the deciding factor", believes John Kamp, although, "this assumes of course that the receiver can do what the customer wants and above all without any errors or crashes!"

John Kamp

believes that the current weak order situation with satellite dealers in Europe has less to do with price and more to do with incorrect product choice.

"The HD market is not quite ready yet; right now it's much better to offer customers SD receivers with upscalers." They also seem to have a similar grip on the available channels. "You're not going to be watching Discovery HD 24 hours-a-day", comments John Kamp, "but rather normal channels that are not yet available in HD." He believes the breakthrough in HD will occur in 2012.

His vision of the future is more towards multimedia anyway. "One day, everyone will have a network server with a very high storage capacity on which TV channels, MP3 files, pictures, etc. can be stored and accessed in any room in the house via the network connection." Clark has already taken a step in that direction: their own receiver will include a universal remote control.

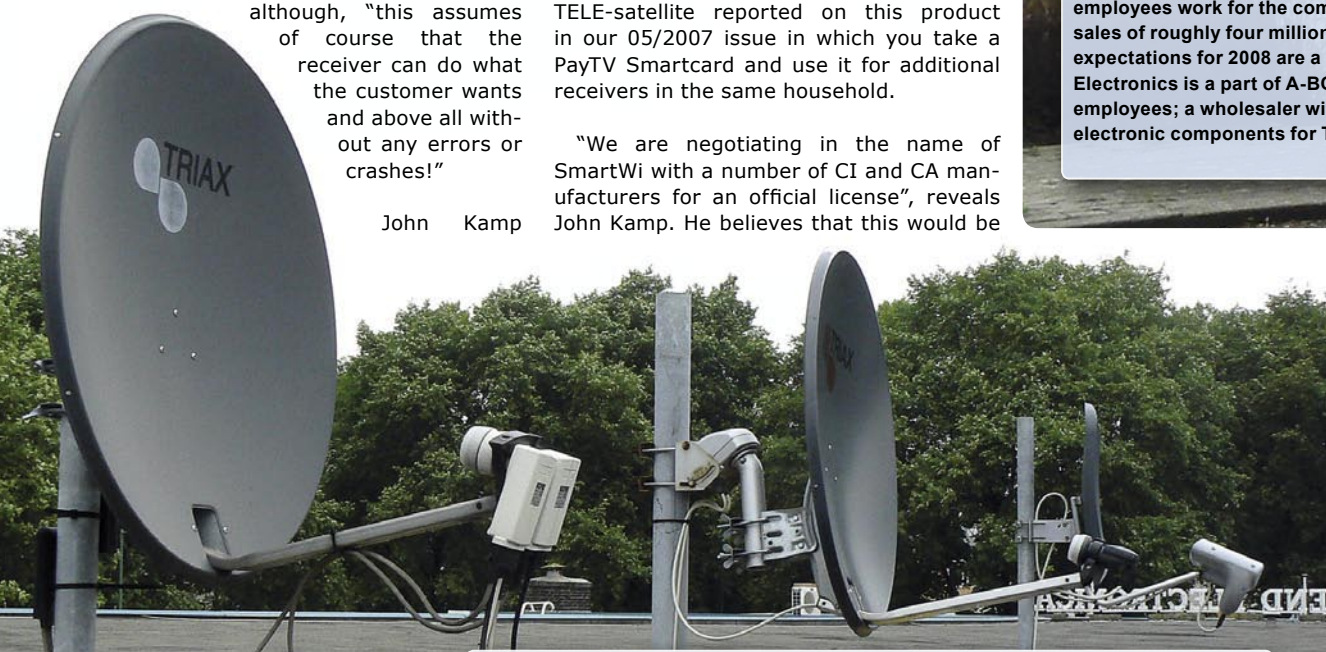
Until that time, John Kamp is focusing on an equally interesting product: SmartWi. TELE-satellite reported on this product in our 05/2007 issue in which you take a PayTV Smartcard and use it for additional receivers in the same household.

"We are negotiating in the name of SmartWi with a number of CI and CA manufacturers for an official license", reveals John Kamp. He believes that this would be



A look in the stockroom in which you will find not only SmartWi products waiting to be delivered to the Benelux countries, but also their own Clark satellite receivers.

The flag gives away the location of Clark Electronics: here in this industrial park where Clark Electronics has its headquarters, 11 employees work for the company and manage sales of roughly four million Euros in 2007 – the expectations for 2008 are a little less. Clark Electronics is a part of A-BC Group with 35 employees; a wholesaler with electronics and electronic components for The Netherlands.

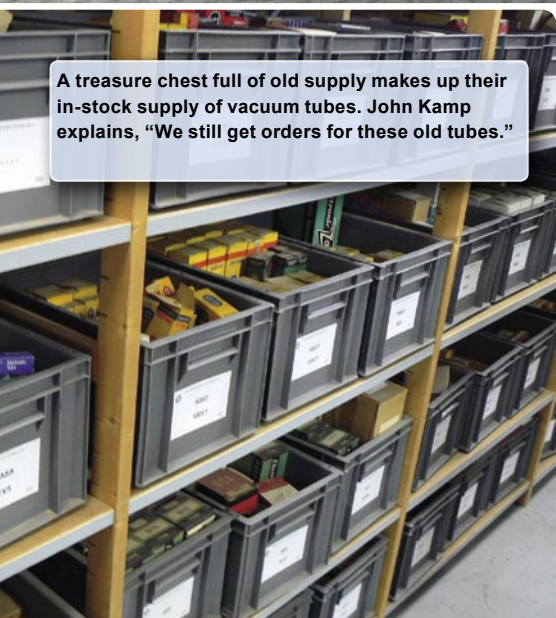


Where does Clark Electronics have its satellite dishes? Right here on their flat roof: a 100cm dish, a 90cm antenna with STAB motor and a 78cm dish. Two in-house technicians handle the repairs, "but most of the repair work has been out-sourced to a service company", explains John Kamp.





John Kamp is Director and COO of Clark Electronics. The map on the wall shows Japan and China. "I usually visit South Korea and China 10 times a year to work with our cooperative partners", explained John Kamp about his business trips.



A treasure chest full of old supply makes up their in-stock supply of vacuum tubes. John Kamp explains, "We still get orders for these old tubes."

an interesting market for PayTV providers. "How often does a second Smartcard ordered from a PayTV provider end up with a neighbor?"

enlightening; something we did not expect from a company celebrating their 70th year!


In his view, the solution is quite simple: if you no longer give out a second Smartcard, it could never come to this. Customers with multiple receivers can instead be offered SmartWi. A simple and truly "smart" solution.

SmartWi is already preparing for the day when their products are officially licensed: the company is now incorporated and working on completing their corporate design.

Our visit to Clark Electronics was very

Clark





■ Mario Sussi in his favorite place: among his satellite dishes. The large dish in the background is the 6.0-meter uplink antenna pointed to EUTELSAT W2 at 16 east. The small 100cm SNAI dish receives the SNAI signal that is then combined with the HOTBIRD signal in their local network. In the background to the left are the microwave antennas for the terrestrial signal network: "Sometimes it's cheaper to transmit the horse racing signals terrestrially, not to mention they are also less susceptible to rain fade since here they are transmitted in the 6 GHz range."

From DXer to Technical Manager A Visit with Mario Sussi from Teleippica in Lucca (Toscana), Italy

Betting on horse racing is a popular pastime in Italy. This is due in large part to Teleippica unifying the horse betting system and reorganizing the network across all of Italy. Teleippica in charge for transmission on behalf of UNIRE's four channels of which two, UNIRE TV "gray" and UNIRE TV "green", are the actual betting chan-

nels and, with the publication of this issue of TELE-satellite, a third channel, UNIRE TV "blue", will have started. There's also the SNAI-TV channel that broadcasts other sports betting events as well as a summary of all broadcasts that is produced with a 15-minute delay for Sky Italia and offered in their Pay TV package.

Naturally, sports betting involves live transmissions. Mario Sussi is responsible for these complex transmissions. He spoke to us about his DXer days in the past, "I tuned into the first satellite transmissions in Europe; that was Project Eurikon back in 1982." Over the years, his antenna farm grew larger and larger to



include a 3.8-meter mesh antenna and a 3.0-meter solid dish. "But that's all in the past", winked Mario, "today there are other problems to solve."

His experiences as a DXer, where he always had to find practical solutions using the simplest methods, help him today to solve much more complex signal processing problems. He gave us an example, "In our own office system we need to not only have access to HOTBIRD but also naturally our own transponder at 16 east." He acquired a narrow LNB, one that he could mount at a 3 deg offset, and fiddled with a single-cable solution so that only one single cable was needed to receive both HOTBIRD and the SNAI-TV transponder at 16 east.

But there are also more complex systems in the works. "We are in the process of converting our system to HD." Even though the transmissions directly from the racing venues are still in SD, Mario came up with his own idea to make it work: he scales the incoming SD signal up to HD and can then transmit the programs in MPEG4 with an 8 MB bandwidth.

It's easy to see that Mario has satellite technology in his blood. He can tell based on the reception signal what encoder is being used. "One encoder manufacturer doesn't have a complete grasp of their technology; you can easily see this", comments Mario.

We asked him as a professional what direction he thought that HDTV would continue to go. For Europe he referred to the state-run as well as the public channels: "they have to lead the way; private channels don't normally take the initiative."

A horror to him is the HD programming from their national PayTV provider Sky: "They scale everything up. This can be

■ SNAI's main office can be found in Lucca not too far from Pisa, Italy.





▲ A look inside the video room. Here the programming clips are put together, sent terrestrially by microwave link to SNAI headquarters in Rome, then back again and then uplinked to the satellite at 16 east.

seen by the customer who then opts away from HD."

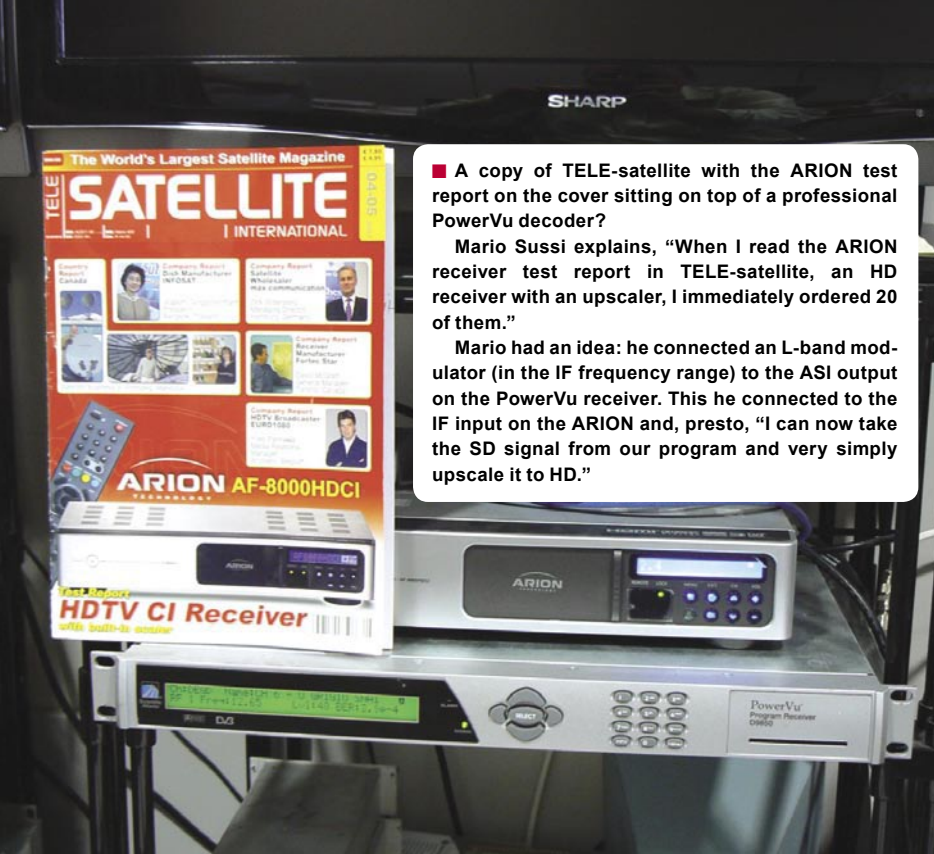
He does see HDTV coming in the future but not as fast as originally hoped. He calculates that the savings that DVB-S2 and MPEG4 bring with it don't compensate for the extra costs customers would need to pay for new receivers.

His arguments for the new fiber optic LNBS from Global Invacom that TELE-satellite recently introduced are similar: "Fiber optic technology is coming; it is beginning to develop in this direction", observes Mario, but he is also skeptical about seeing this in the near future.

Before we left, Mario gave us a hot tip for DXers: "Most feeds today are transmitted in 8PSK - but few DXers can receive them." Why? Isn't 8PSK used with DVB-S2? "Yes, this is true", explained Mario, "but feeds don't transmit in DVB-S2, instead it is normal DVB-S." The problem lies with the readily-available LNBS: "There's not only the noise factor", explains Mario, "you also have phase noise. With a high-quality spectrum analyzer you can see that the carrier drifts very easily."

"As long as it drifts fairly slowly, the receiver is able to follow along. But if the drift is random, phase noise makes it impossible to demodulate the 8PSK constellation, and reception fades away." Mario told us of his experiences: "Pro-

◀ In the heart of Teleippica: from here the five encoders are controlled and the programming is switched over to the uplink. Susanna DelPapa is in charge of this control room.



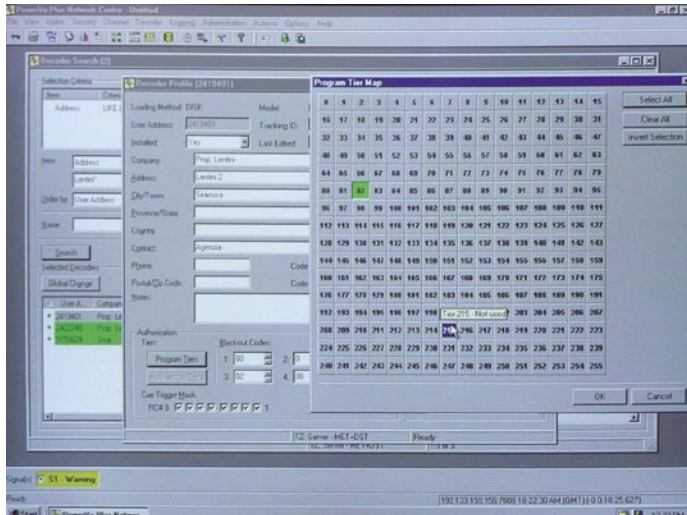
■ A copy of TELE-satellite with the ARION test report on the cover sitting on top of a professional PowerVu decoder.

Mario Sussi explains, "When I read the ARION receiver test report in TELE-satellite, an HD receiver with an upscaler, I immediately ordered 20 of them."

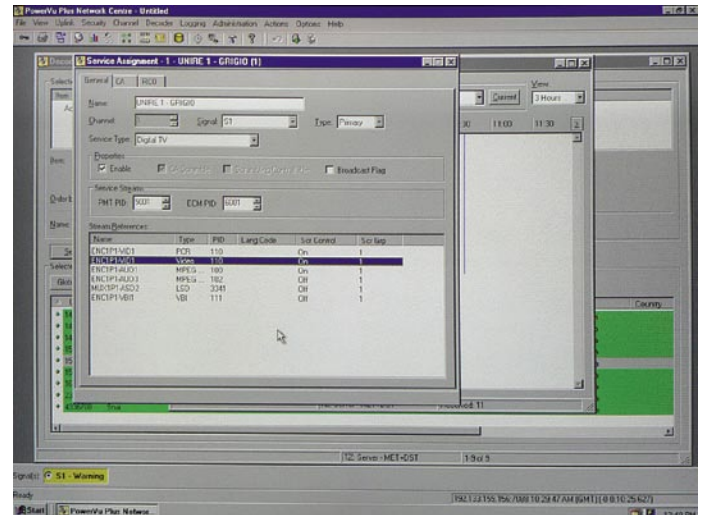
Mario had an idea: he connected an L-band modulator (in the IF frequency range) to the ASI output on the PowerVu receiver. This he connected to the IF input on the ARION and, presto, "I can now take the SD signal from our program and very simply upscale it to HD."



■ Pietro Del Tessoro is Mario Sussi's right-hand man and is also responsible for the uplink encoder.



▲ This is what the control software from PowerVu looks like: with this encryption system, each receiver can be individually controlled. AFRTS, the American Armed Forces Radio and Television Service, also uses PowerVu. Susanna explains how it works: "We can individually turn on and off a maximum of 30,000 customers/receivers; right now we have about 9000 customers." Each customer can be activated for up to 255 individual services; each service could be a video channel, an audio channel or a data channel. On the screen you can see 255 buttons. Button 44, for example, is the video signal from Unive TV "gray". "We can even change the transponder frequency in the receiver from here", explains Susanna about the PowerVu system, "The receiver switches automatically to the new transponder without the customer even realizing it."



▲ The individual PIDs are lined up with the corresponding signals through the PowerVu software.

professional LNBS are very frequency-stable and can therefore receive 8PSK in DVB-S without any problems." For the feedhunters within the DXer group, Mario recommends searching for frequency-stable LNBS. "There are some manufacturers that produce standard LNBS that would fit the bill."

Mario looks at it as part of his job description to always be in step with the technology. But he can also see the dangers: "You need to be in the right place at the right time; it doesn't help to invest too soon, but at the same time you don't want to be too late to embrace new technology."



It's demanding work but Mario is always ready for it. And finally, some praise for TELE-satellite: "TELE-satellite always keeps me up to date with the latest products on the market; this makes my job much easier." That makes us happy of course!

◀ This is what the back of a regular PowerVu receiver looks like as it is installed in the Telepica betting offices.

Square Plan, Johannesburg



Square Plan is one of the larger satellite distribution companies in South Africa.

The President is Bernard Ruberg, a satellite hobbyist himself. He was the one who originally managed to receive ASTRA from Europe with his 4.5-meter antenna – of course in analog. That dish is still in service today but more antennas have been added to

the mix: a 3.7-meter mesh antenna as well as two 2.4-meter dishes. All of these antennas can be found on his property in northern Johannesburg, as can be seen here on our picture. His company has been in existence for 23 years. Suwaibah Dadabhay, his office manager, explained to us: "We sell 65,000 dishes including LNBS every year. On top of that, we sell 10,000 100cm antennas as well as 1000 2.4 and 3.7-meter antennas each year."

Installers and dealers can acquire all the necessary accessories such as switches, any kind of LNB from single and twin to Quad and Quattro. Square Plan also handles repairs. "Roughly 20% of our products are exported", explains Suwaibah, much of it to countries such as Angola and Mozambique. Nine employees make up Square Plan, four technicians and five office workers. Square Plan is convinced that business for 2008 will grow!



Suwaibah Dadabhay is Square Plan's Office Manager and organizes everything.



Functionality test for newly arrived LNBs: a technician tests every LNB by connecting it with a signal analyzer and then by attaching it to a dish pointed at 68.5° east.

A satellite DXer's dream: a 4.5-meter full dish and several other "smaller" antennas with diameters of 2.4 and 1.8 meters all with motors and then of course unrestricted visibility in all directions.

Satellite Reception in a Train

In the 03/2008 issue we introduced to you the company SeaTel, a provider of mobile satellite reception systems for ships. In that report we also mentioned that SeaTel was in the process of expanding into a new business area by developing mobile satellite reception systems for trains. And just recently, that milestone was reached: the first high-speed trains with satellite reception are now running on the rails!

It has to do with Thalys. This company operates 26 high-speed trains that travel between the cities of Paris, Brussels, Amsterdam and Cologne. The new SeaTel system has been installed in 15 of these trains, and by the end of the year the remaining trains should also be equipped for Internet reception via satellite.

We asked Philip Haines, responsible for the technical development of this system with the company 21net, what is being offered. He explained, "We are receiving the Internet service from the Belgian broadband provider Telenet in the 12.5 to 12.75 GHz frequency range." It is an intelligent technology that is being installed;



Philip Haines speaking with TELE-satellite. He is the Technical Manager at 21net.

bandwidth distribution between the trains that statistically are underway only 40% of the time."

In the train itself, the passengers access the Internet via WiFi Hotspots. This certainly is a new experience: surfing the Internet in a high-speed Thalys train travelling at 300 kph (188 MPH)!



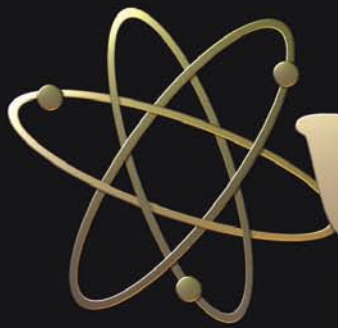
21net technicians at work installing the SeaTel satellite antenna for the mobile reception of HISPASAT. Since the Thalys high-speed trains don't travel much up or down any hills, the antenna itself doesn't require much in the way of elevation adjustments. This results in a lower wind load thanks to the flatter radom.

it was developed jointly with Nokia Siemens Network. This system automatically switches over to GPRS/GSM operation when the train enters a tunnel or when it stops at a station that is covered with a roof.

While the train is underway and as long as there is a clear line-of-sight view to HISPASAT, the goal is to provide "2 MBit/s download speed and 512 KBit/s upload speed for each train", explains Philip Haines, and then continues, "We are using an intelligent



Finished! The radom is placed on top of the antenna. Now the system is not only protected from the weather but also from the enormous 300 kph (188 MPH) wind load.



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Fashion TV

f Reality Show at sea! Fashion TV has been the owner of a ship for a few months now – a vessel that was formerly used as a roll-on roll-off car ferry. The company is planning to use the ship as a party boat and also intends to broadcast a reality show based on the Big Brother concept and starring – what a surprise! – fashion models. This sounds like a really crazy idea and we wanted to have a closer look at those plans. After all, how will broadcast signals be sent from the ship to a transmitter?



f Fashion TV has bought this vessel and converted it to a party and studio ship.



f Oleg is the IT manager on the Fashion TV ship. Here you can see him on the roof next to the 1.2 antenna in the radom which keeps a permanent connection to the Internet. While stationary in Bangkok harbour the antenna is aligned to NSS 6 and uses the Speedcast service.



f View of the broadcast centre: this is where the show is directed. The schedule on the wall in background shows which model is working at what time.



f While the ship is anchored in harbour, the IT team installs dishes and uses them to record the live stream of Fashion TV in order to play back the program while the ship is at sea. Here you can see Jon Clarke, the owner of JSAT.TV in Bangkok, next to the two C band antennas. One is aligned to ASIASAT 3 at 100.5° East and the other one to INTELSAT 7,10 at 68.5° East.

We visited the Fashion TV ship in Bangkok. The vessel was originally equipped and converted in Greece, "but the technology was a huge mess and didn't work at all," according to Jon of JSAT.TV, a Bangkok company specialising in satellite technology. "We had to exchange the entire TV system on the ship and partially converted it to IPTV," he continues.

Bogdan is responsible for the on-board video technology and explains that "almost 500 TVs are connected to the system, and apart from a couple of monitors all are 16:9 flat screens."

So the Fashion TV ship features more TVs than most hotels. All cabins and each meeting and conference area, all stairways, bars and dance floors of the ship are equipped with flat screen TVs. In total, 16 channels are distributed on the S band, all of which are received by a self-tracking Ku band antenna.

"In addition, a total of 24 cameras are installed," explains Oleg, the IT manager on board the Fashion TV ship. "These are used as surveillance cameras on the one hand, but also for the Fashion TV reality show on the other hand." IPTV is being used to transmit the signals from the ship. A 1.2 m antenna maintains an IP connection to the Fashion TV broadcast centre and the same connection is also used to provide Internet access to the guests on board.

A powerful WLAN network capable of broadcasting through thick steel doors and walls inside the ship is available for guests to log onto the Internet. What a relief that the technical equipment required for this system is readily available in the Bangkok "Future Center", one of the huge shopping malls for tech-products. Components you'd be hard pressed to source in Europe are on offer here for very competitive prices.

Thanks to its technicians the Fashion TV ship features innovative satellite technology on board.



f The tech centre is chilled down to 5° Celsius. This is where all channel processing modules (left) for the 16 S band and IPTV channels are installed. To the right you can see the satellite receivers which are connected to each other via Ethernet and can be remotely controlled by PC.



f Bogdan takes care of video technology on the Fashion TV ship. Here he is next to the radom for the 60 cm antenna with automatic tracking.

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SatcoDX Suite Updater downloads the full SatcoDX Chart Database once every hour, provided that your PC is connected to the Internet and the license is valid. Additional to the original SatcoDX database in csv format, the Updater also downloads the **SatcoDX-all-transponder.csv** file, which contains all information needed as default settings for satellite receivers. Additionally, the Updater downloads the full chart in **xml** format which can be used for multiple applications.

Installation:

Click SatcoDX Suite Updater in the SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at www.TELE-satellite.com/ads/

DishPointer Version 1.0.0.0

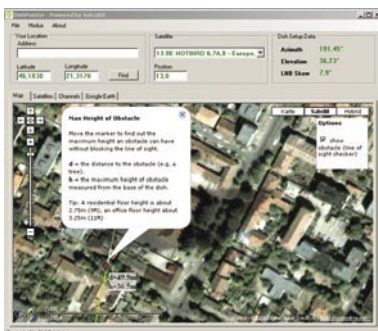
Erect your Dish Virtually and Find out What Satellites and Channels you get at any Location Worldwide

DishPointer brings together IP-Location, Google Maps and SatcoDX Chart. If you are online, it shows your own location by default, choose the satellite you wish to receive, and DishPointer shows all installation details and the satellite channels available. Additional features allow you to check for obstacles in line of sight - all from the comfort of your PC.

Installation:

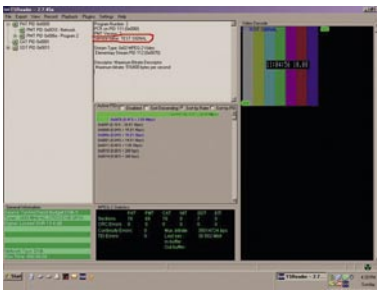
Click DishPointer in the SetUp of SatcoDX Suite

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TSReader Lite Version 2.8.46e

Read the Content of Transport Stream and Analyze Bitrates - Includes Video Displays



TSReaders connects to a wide selection of satellite PC cards and analyzes the transport stream. Each PID can be analyzed for its content and bitrate. Video PIDs are shown with a screenshot, including MPEG4 streams.

Installation:

Click TSReader in the SetUp of SatcoDX Suite

Standard and Professional Versions of TSReader are available at www.tsreader.com

Transponder Finder Version 0.95

Find New Transponders Automatically With Intelligent Search

Transponder Finder requires SkyStar 2 r2.6 card with driver 4.2.8. It loads the sdx chart created by SatcoDX Updater and sorts Symbolrates by occurrence. Transponder Finder searches for most used SRs first, then for frequencies, and only then starts a mechanical search for the SRs and frequencies left.



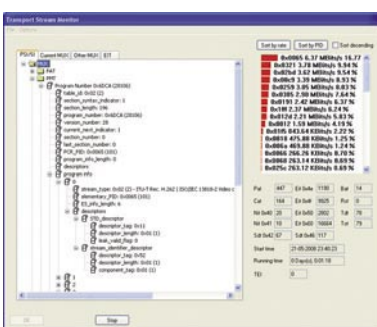
Installation:

Click Transponder Finder in SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at bxs.no.sapo.pt

DVBStreamExplorer Version 3.0.79

Analyze Transport Stream And Demux And Capturing to Disk



DVBStreamExplorer connects to a multitud of satellite PC cards and allows analyzing the stream, giving all informations available in stream including the full teletext data and shows bitrates. Shows services as MHP, AC3 or H.264

Installation:

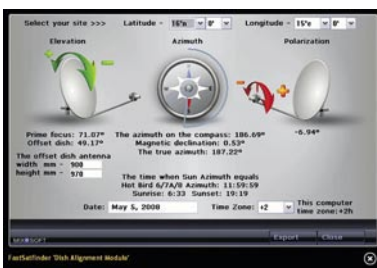
Click DVBStreamExplorer in the SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at www.dvbstreamexplorer.com

FastSatFinder Version 2.7.5

Alignment Tool with Signal Quality and Level Voice Reading

FasSatFinder offers all the tools needed for setting up a dish: select a satellite from the SatcoDX generated list and FastSatFinder immediately gives signal quality and level even in voice. Easy-to-understand graphics explain how to align dish for maximum.



Installation:

Click FastSatFinder in the SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at www.fastsatfinder.com

Topfield TAPs – Little Helpers for Your Topfield Receiver

Software developers don't always have it as easy as you might think they do. While one user wants to have very specific functions, the others sit there with puzzled expressions; while the professionals are always looking for more exotic uses for their equipment, the entire system must still remain easy to use for the beginner. This problem was solved decades ago in PC's in that on one side there are the operating system manufacturers and then on the other side you have hundreds of thousands of other smaller companies that have developed supplementary programs based on the basic operating system.

Up until recently, these types of developments were unknown in the DVB-S, DVB-C or DVB-T receiver world, and these boxes from all the different manufacturers come with only the exact features that were foreseen during their design stages.

For the aspiring South Korean manufacturer Topfield, this was simply not good enough. They came up with a plan to actively include the end users of their set top boxes in the developmental process. This was made possible by a unique programming interface, called TAP (Topfield Application Program), that the manufacturer made available at no cost to all users and included precise documentation of the possibilities and the proper approach to take. It didn't take long for dozens of hobbyists to surface that wanted to improve the capabilities of their Topfield receivers. Thanks to the Internet, these small supplemental programs quickly spread to others allowing Topfield receiver owners to choose from a variety of TAPs in order to upgrade their box with a specific useful function. A few of the better TAPs we would like to introduce to you here along with a download link so that you can take these TAPs for a test drive in your receiver.

Unless otherwise mentioned, most of the TAPs are compatible

with Topfield's 5000 and 6000 PVR series and are easily uploaded into the receivers via the USB port or the network interface using the freely-available Altair program (downloadable from www.i-topfield.com). The TAPs are placed into the "Program Files" folder. This folder also contains the "Auto Start" subfolder. Any TAPs placed in this folder will automatically be executed when the receiver is turned on; any others would be activated by accessing the PVR menu and clicking on the << button.

Automove TAP – Increased Organization on the Hard Drive

This particular TAP is geared more towards our readers who are TV series lovers. It will take multiple recordings with the same title and move them into a pre-defined folder. Every recording from your favorite TV series will land not in the regular folder but nicely sorted in its own folder.

Download: <http://tools.hepke.com/component/>

Filer TAP – A Wastebasket for Your Topfield

Who isn't familiar with this problem: when cleaning out your hard drive, one recording after the other is deleted only to find out that you still hadn't watched

the conclusion of your favorite TV series. For the normal Topfield user, this would be an aggravating experience. But if you have the Filer TAP installed, there is no longer any need to worry. Much like a typical PC, the Filer TAP stores all deleted recordings in a virtual trash bin from which they can easily be restored if needed.

This TAP also provides some extras such as an expansion of the features in the receiver's PVR list: you can mark programs that have already been viewed, the font size can be adjusted and more sorting capabilities have been added.

Download: <http://www.elle4u.de/taps/filer>

HDD Info TAP – Noise Suppression for Your Topfield Hard Drive

The hard drive is humming nicely in the background while you strain to listen to what they are saying in a quiet scene on the TV. For hard drive manufacturers, this has been a reason for some time already to incorporate some form of acoustic management although in most cases this option is usually not activated by default. In order to activate it, the hard drive would have to be removed from the receiver and installed in a PC; not exactly an easy procedure. The HDD TAP was written especially for this reason. It not only provides information on the installed receiver's hard drive, but in most cases can also let you activate many acoustic management settings directly through the receiver.

Download: <http://www.topfield-europe.com/de/09-taps/link.php?url=28>

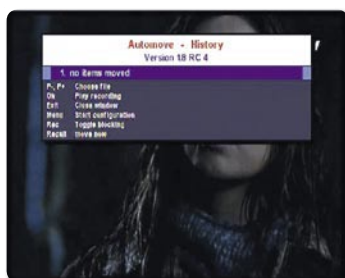
ImproBox – Many Practical Features for the Info Bar

ImproBox provides a replacement for the standard Info Box and offers a number of additional features. ImproBox provides three different backgrounds in four different colors and in addition to information on the current program also shows the user information on the next program. It is also possible to display all the upcoming programs in the Info Box, to directly display an upcoming primetime program, to look for repeats and to set your timer (extra time can be added to the beginning and end of a recording).

The live picture can be automatically reduced in size when the Info Box appears so that no portion of the picture is hidden behind the Info Box. ImproBox also provides a variety of Jump-to functions that let you, for example, quickly work your way through the recording menu or directly enter in your location in just minutes.

The Quick Start lets you restart the previously viewed recording with just the push of a button. Alternatively, a list displaying recently viewed recordings can be called up from which they can be played back again if desired. While a program is being recorded, ImproBox can display it in a preview window and, if desired, it can be manually stopped. This also holds true for the playback of an existing recording.

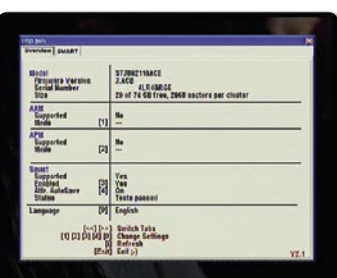
Important: ImproBox is shareware and can only be used for free for a limited time after which the user needs to obtain a license



Automove TAP



Filer TAP



HDD Info TAP



EPG from iTiNa



ImproBox with its many settings capabilities

from the manufacturer!

Download:

http://www.improbox.de/index_en.html

Masterpiece Display – Gets the Most Out of the VDF Display

This little TAP expands the Topfield 5000's VDF display by providing more useful data, such as the actual time, and also changes the presentation of longer data names during playback (from this point on it would only be scrolled a single time). In our tests we were unable to get this TAP to work with Topfield's 6000 series.

Download:

<http://www.topfield.cc/files/Firebird/MPDisplay.zip>

Jag's EPG – A Must-Have

If you are not satisfied with Topfield's standard EPG, you could always give Jag's EPG a try. One thing is for sure: after using Jag's EPG, it is highly unlikely that you will miss Topfield's normal EPG. With Jag's EPG, you can, for example, download the EPG data for the first 100 channels automatically on a daily basis (e.g. overnight) so that you can view them anytime you want without any download delays, even if you're not on your favorite channel. In addition to the countless ways that this data can be displayed, this TAP also has a variety of search and sort functions, lets you directly enter timer settings with the ability to add extra time before and after the programs start time, etc. The entire range of features provided by this TAP fills a 38-page full-size user manual. In addition to the original TAP, other programmers have developed accessory tools such as a program to display timer settings on a PC. This TAP is freeware!

Download:

<http://www.topfield-europe.com/forum/forumdisplay.php?f=58>

Bookmark TAP – An Absolute Favorite

At first glance, the Bookmark TAP seems rather small and



unremarkable but it provides the receiver with an extremely practical function. Every time you push the Stop button, a bookmark is placed at the exact point where the playback of a recording was stopped so that later you can pick up watching your program exactly where you left off.

Download:

<http://www.mynetcologne.de/~nc-lueckth2/>

Movie Progress TAP – When is This Movie Over?

This useful TAP displays the remaining time of a program in a graphic located just above the Info bar.

Download:

http://www.boeckle-net.de/topfield_taps.htm

3PG – Expanded EPG

The 3PG TAP also deserves mention although it offers functions similar to the Jag's EPG. Our suggestion: try them both out and decide for yourself which TAP you want.

Download:

<http://www.topfield-europe.com/forum/forumdisplay.php?f=67>

iTiNa – The Third is the Charm

Developing an EPG TAP that includes everything that thus far has been missing in other TAPs, was the idea of two Topfield enthusiasts who, through some painstaking work, have created iTiNa (intelligent Timer and Navigation). For one thing, it comes with a completely new EPG and Info bar display, and for another, it also includes a number of practical features such as audio reproduction for the blind, overlapping timers on the same tuner, automatic scanning in the EPG data along with direct timer programming, an Auto-move function, plus much more.

Download:

<http://www.itina.de>

AutoZapper – A TAP for TV Junkies

This TAP was developed for all



Various screenshots of Jag's EPG

those chronic channel surfers out there with sore thumbs. It will channel surf automatically with a user-settable delay between all the channels in the channel list.

Download:

http://www.boeckle-net.de/topfield_taps.htm

PIP Switch – Deluxe PIP function

The PIP Switch TAP expands the standard PIP function with a few new features. You can now view split-screen images or set up overlapping windows. The result is impressive and looks exceptionally professional.

Download:

<http://www.mynetcologne.de/~nc-lueckth2/>

Backup TAP – First Aid for Your Topfield

If everything should go wrong one day and your channel list, settings and timer entries should all disappear, this TAP would help as long as a backup had already been made. It would let you bring the receiver back to its original state.

Download:

http://tonyspage.abock.de/TAPS/backup_settings3.2.zip

Topfield MP3 Jukebox

Every Topfield PVR receiver has the capability to playback MP3 files but this function was not given much attention by the manufacturer. The MP3 Jukebox TAP comes into play here and provides all of the functions you'd expect to find in a decent Jukebox.

Note: At this point, this TAP only works with the Topfield 5000 series and not with the 6000 series!

Download:

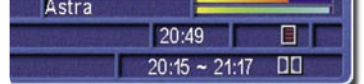
<http://www.netgio.com>

These are only a few of the TAPS that we had room to write about and that we felt were worth mentioning. On the web sites listed below you will find many more small as well as large helpers for your Topfield receiver:

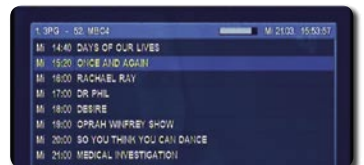
<http://www.topfield.cc>



Info Bar with Movie Progress display



3PG TAP's easy-to-read EPG overview



Backup TAP



Topfield MP3 Jukebox



Split-screen view thanks to the PIP Switch TAP



Topfield MP3 Jukebox

First Steps in the Ka Band Reception Experiments In the 20 GHz Range

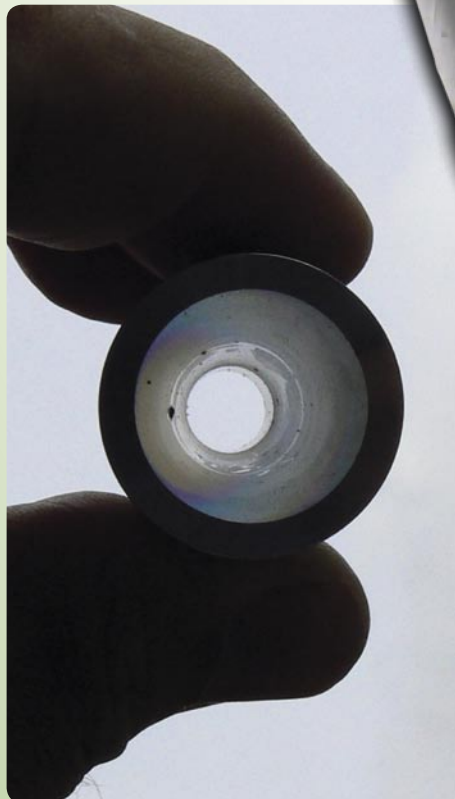
TELE-satellite has reported on the Ka band several times already, the latest time as recently as in issue 09/2007. The Ka band extends from 18.2 to 22.2 GHz and was split by LNB manufacturers into different segments. "A" denotes the first segment from 18.2 to 19.2 GHz, "B" stands for the second segment from 19.2 to 20.2 GHz and so on. Reducing each segment to a 1 GHz bandwidth makes sure conventional satellite receivers are capable of receiving signals that are transmitted on Ka band transponders when converted into intermediate frequencies between 0.95 and 1.95 GHz.

With these facts in mind it was about time someone tried out Ka band reception after all. Ron Eberson in Amsterdam did just that and we visited him to find out how he went about with his mission and what result he was able to achieve. This is how his story begins: "First of all I obtained a Ka band LNB directly from the manufacturer." The reason for this direct approach is that Ka band LNBs are not (yet) available from high street satellite shops. While Ka



Ron Eberson in the garden of his town house in northern Amsterdam. He shows a Ka band LNB with a purpose-built feed. Ron Eberson is an experienced antenna professional: for many years he had owned a company producing amateur radio antennas. In 2000 he sold his business and since then he has been able to invest most of his time in satellite reception.

Ron Eberson had a feed made out of an aluminium cast. "I could have done it myself with the help of a turning lathe," he says adding that "everybody can do that. You can buy a turning lathe for 300 euros these days." The feed output measures 28.8 mm and is fitted to the antenna, the feed's input fits the LNB output with 10.8 mm.



View into the feed horn: the conical shape of the feed is visible.



The feed fits perfectly into the existing reflector antenna and is inserted into the existing funnel feed.



SONICVIEW



SV-360 Premier

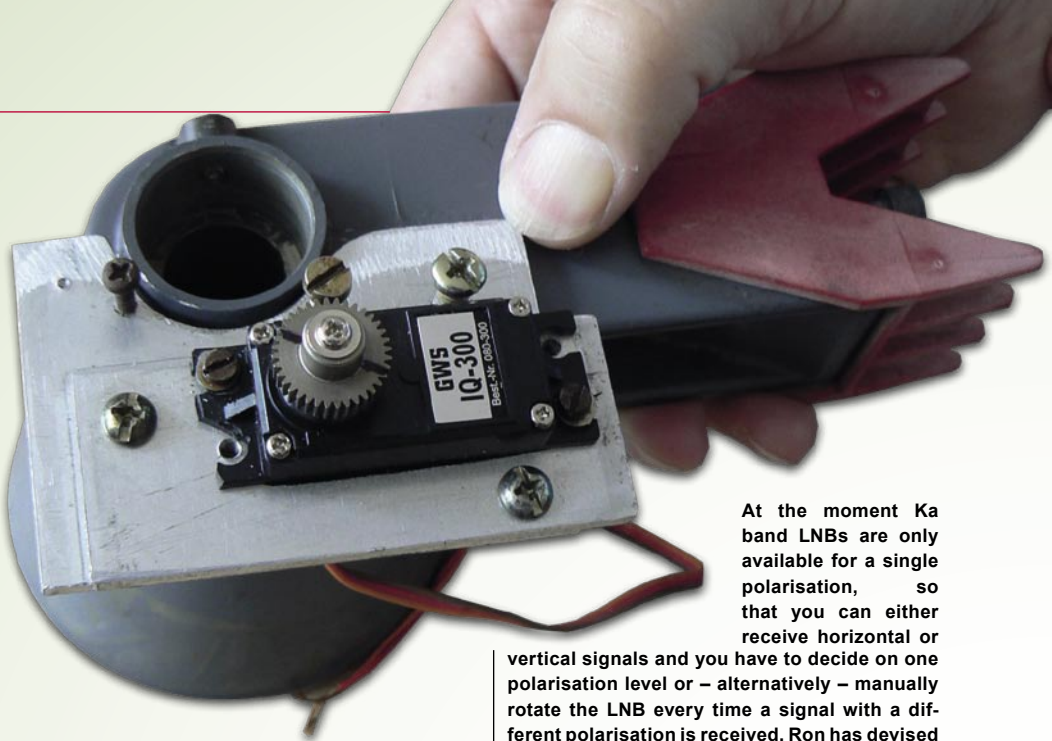


SV-360 Elite



SV-HD8000

band technology is already being used in professional applications, these systems always come in complete packages so that individual components are hard to come by. In particular, providers of Internet-via-satellite frequently rely on the Ka band as it offers extremely good bandwidths and the capacities are underused at the moment. North American Internet service provider Wildblue is one of the pioneers of Ka band use. Once Ron Eberson was able to call several Ka band LNBS (one for each frequency range or segment) his own, he encountered the next obstacle. "Due to the higher frequency range the waveguide is narrower than for other bands, which means that regular Ku band feeds simply won't fit." Not a problem for Ron Eberson, as he quickly made up his mind to build his own customised feed. "Of course I had to calculate the correct measurement first," Ron explains, but this turned out to be quite straightforward thanks to a software application called PCAAD 5.0 (<http://www.antennadesignassociates.com/pcaad5.htm>). "All you do is enter some basic



At the moment Ka band LNBS are only available for a single polarisation, so that you can either receive horizontal or vertical signals and you have to decide on one polarisation level or – alternatively – manually rotate the LNB every time a signal with a different polarisation is received. Ron has devised something different altogether. "For about 10 euros I'm building a device that rotates the LNB as needed," Ron explains. "I take a motor with a cogwheel, like the ones that are used for model building, and a so-called servo tester, which are also quite common for model building when the remote control is not in use."

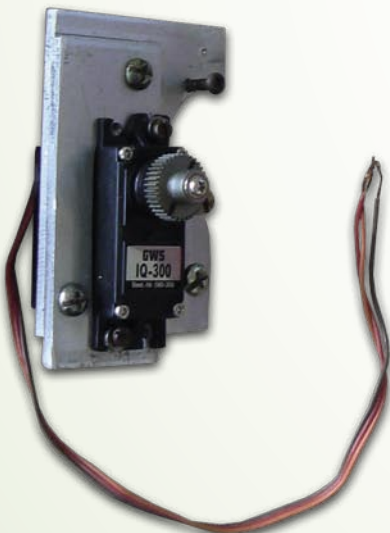
own Internet forum (www.gregorian-users.com and <http://96592.forums.motigo.com>) to get in touch with other Ka band enthusiasts. "At the moment there are three members on the forum, but I do hope this



parameters and the tool takes care of all the rest."

So then the actual feed had to be built. "Actually, I could have done it myself with the help of a turning lathe," Ron continues, but as he has a friend working at a professional metal processing company he had the feed made from an aluminium cast based on the result of the software tool. The next step was to decide which receiver could be used for Ka band reception. According to Ron "any receiver will do, even though it only makes sense to use a box which allows entering any given IF manually." That's why Ron went for a Fortecstar receiver because "this box correctly displays the reception frequency on screen."

Ever since, Ron has been spending enormous amounts of time scanning the Ka band satellites. Albeit, his moments of success are still rare. "I'm really stuck without knowing the appropriate symbol rates," Ron tells us with disillusionment. A situation like this is the greatest challenge for any genuine DXer and even Ron admits that "this is part of the fun. Where's the challenge when all you need to do is press a button?". In the meantime he set up his



The LNB rotator is still in the making, but this is how it will work in the end: the motor with the cogwheel is mounted on the feed, and the LNB is mounted in the feed with a cogwheel ring and a flange so that it can rotate. With this mechanism Ron will be able to rotate the LNB from horizontal to vertical with his remote control.



The existing funnel feed for the Ku band. The Ka band feed is put into the opening that usually takes in the Ku band LNB. The funnel feed increases reception efficiency.

number increases so that we can exchange our thoughts and ideas regarding the Ka band," hopes Ron Eberson, a true satellite pioneer.



The moment of truth has arrived: Ron enters the local frequency of 20.250 GHz in his receiver and thus makes the receiver display the correct reception frequency without conversion. As the Ka band LNB is not divided into high and low bands and the polarisation cannot be changed, all these settings are turned OFF. However, due to lacking symbol rate information Ron has not been able to receive any Ka band signals yet.

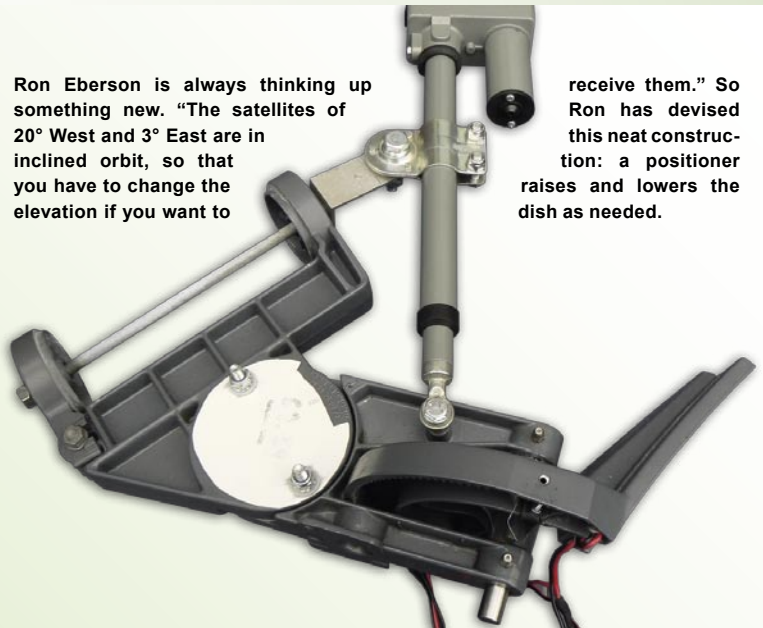


Ron has installed a 90 cm reflector antenna on the roof of his town house.

Ron Ebersson's Handiwork

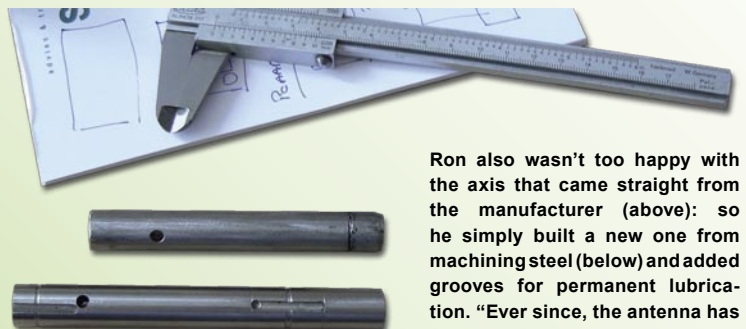


This is the small 55 cm reflector antenna Ron uses for his Ka band experiments. Nothing extraordinary at first sight, but if you have a closer look you'll notice that the motor is mounted at the wrong place: it does not sit below the rotating axis but above it. And come to think of it, we're not talking about a regular motor here either, but a DiSEqC motor. Ron sheds some light: "A conventional motor requires a 36 V positioner and can only move the dish 50° in each direction, which wasn't good enough for me." So Ron replaced the axis with a purpose-built axis and put a DiSEqC motor on top of it. "This has many advantages," Ron smiles, "because the dish can be turned almost 90° in each direction now, the motor axis is better protected from the elements and I can rotate the antenna using DiSEqC commands."



Ron Ebersson is always thinking up something new. "The satellites of 20° West and 3° East are in inclined orbit, so that you have to change the elevation if you want to

receive them." So Ron has devised this neat construction: a positioner raises and lowers the dish as needed.



Ron also wasn't too happy with the axis that came straight from the manufacturer (above): so he simply built a new one from machining steel (below) and added grooves for permanent lubrication. "Ever since, the antenna has worked flawlessly. Once a year I add some fat for lubrication and the thing runs as smoothly as on day one." In addition he added a thread in the centre. "This way I can stabilise the antenna if the motor is removed, otherwise the dish would judder like a sail in the wind."

SatcoDX

India

Alexander Wiese



Recently, a new SatcoDX AutoScan station was set up in India. Now, SatcoDX stations automatically detect all satellite channels transmitted over India, using scan software that was developed in-house at SatcoDX. With the currently two stations – one of which is located in Thiruvananthapuram in southern India, the other one on New Delhi to cover the North – SatcoDX is now able to analyse almost all beams that can be received in India.

The Thiruvananthapuram AutoScan station has been operational for two years now and is managed by Satheesan, a very committed satellite DXer with many years of experience in the field of satellite reception. "I set up my first dish twelve years ago," Satheesan proudly tells us.

Since then his antenna farm



has grown steadily, a development that was helped by the fact that he has more than enough free space for this. Meanwhile he receives all satellites available at his location.

For SatcoDX he runs six PCs, each of which scans four beams, making it a total of 24 beams which are being scanned by Satheesan 24/7. This way new channels are detected

almost immediately and their parameters are entered automatically into the SatcoDX frequency charts.

For several months now the Thiruvananthapuram SatcoDX AutoScan station has been complemented by an additional station in New Delhi which is operated by computer engineer Siddharth. He reveals that "I have some ten years of experi-

ence of feed hunting and up to today I was able to receive virtually all satellites positioned in the orbit above India."

As he lives right in New Delhi, space had become a major drawback and at the moment Siddharth is in the preparation stages for relocating to a place outside New Delhi so that he can keep receiving all signals at his new location in Moradabad.

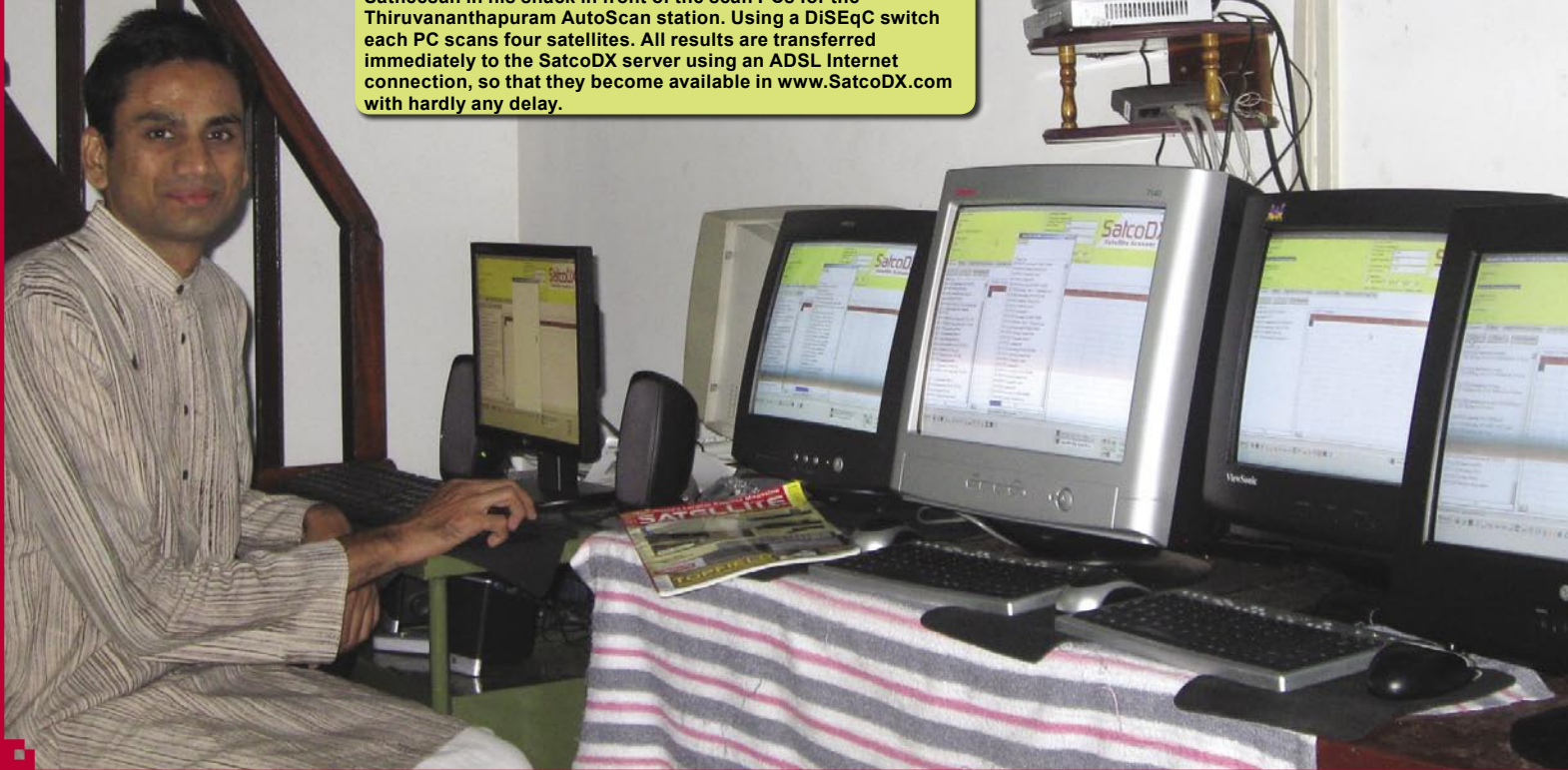
There he will have more space to set up additional dishes for receiving northern signals as well.

Once the new station is up and running SatcoDX will be able to receive and analyse virtually all beams available in India and thus will offer up-to-date satellite charts free of charge to all and everyone at www.SatcoDX.com

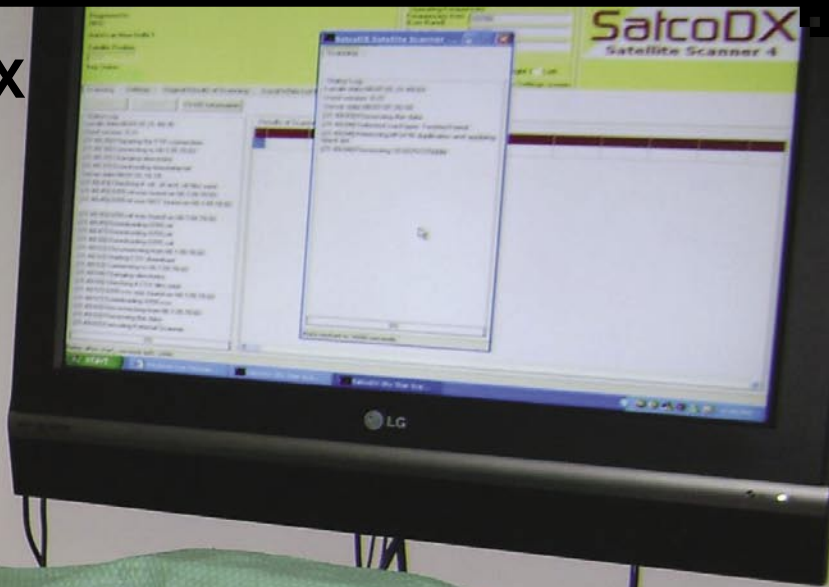


Thiruvananthapuram SatcoDX AutoScan station (Federal State of Kerala) *Satheesan Puzhakkara*

Satheesan in his shack in front of the scan PCs for the Thiruvananthapuram AutoScan station. Using a DISEqC switch each PC scans four satellites. All results are transferred immediately to the SatcoDX server using an ADSL Internet connection, so that they become available in www.SatcoDX.com with hardly any delay.



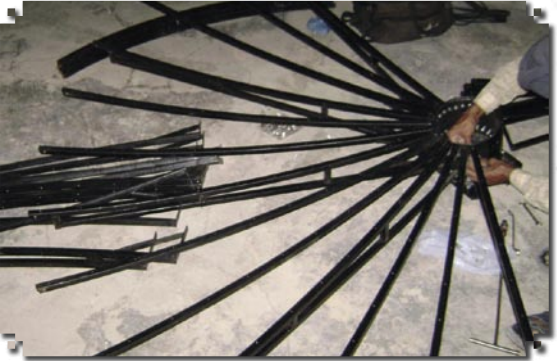
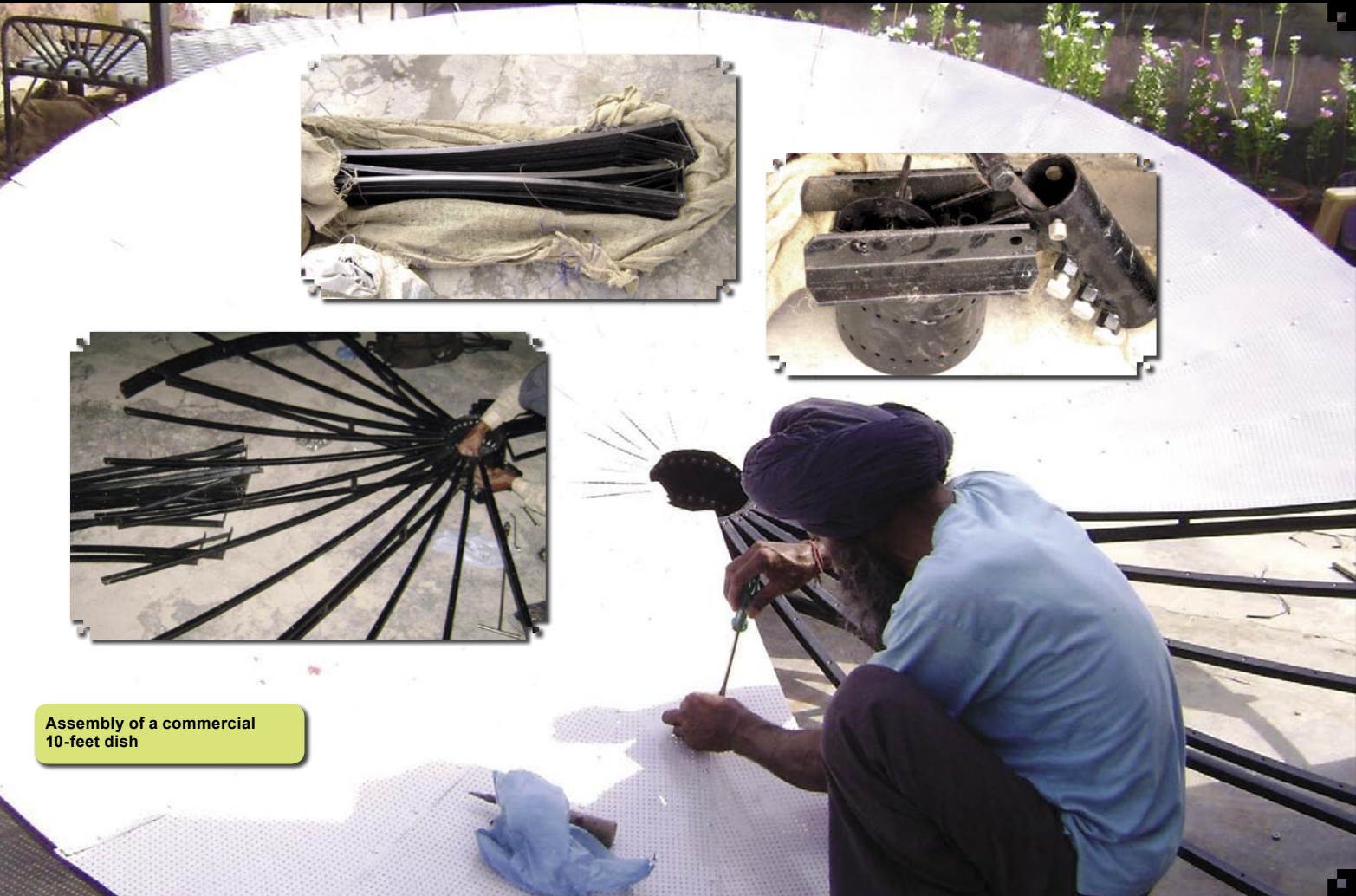
New Delhi SatcoDX AutoScan station *Siddharth Gautam*



Siddharth in his shack in front of the PC at New Delhi SatcoDX AutoScan station



This 10-foot dish is aligned towards BADR at 26° East. It was assembled on site and was designed by a local craftsman.



Assembly of a commercial 10-foot dish



Close view of the 12-foot dish: with a little bit of improvisation it is possible to receive eight beams, namely (from above): APSTAR 6 at 134E, VINASAT 1 at 132E, JCSAT 3 at 128E, ASIASAT 4 at 122E, CHINASAT 6B at 115.E (this LNB is the one that is in focus), NSS 11 at 108 in the Ku-Band, ASIASAT 3S at 105.5E und ASIASAT 2 at 100.5E



One bag of cement is mixed up on the roof...



...and the mast foundation is erected using some 200 bricks



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AZURE + SHINE





Satheesan's antenna farm for the Thiruvananthapuram SatcoDX AutoScan station in southern India



The satellite installer mounts the LNB on the feed rodings...



... and takes care of fine-tuning once the dish is set up.



Done! The antenna is now perfectly aligned to receive EUROIRD 2 signals at 25.5E.

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Edited by
Branislav Pekic

EUROPE

EUROPE

CHE INSTALLS IDIRECT HUB, LAUNCHES DVB-S2

Cobbett-Hill Earth Station (CHE) has installed an iDirect Series 15000 Universal Satellite Hub and acquired multiple iNFINITI 5000 Series Satellite Routers to launch a hosting service for VNOs. With the debut of its new offering, CHE has signed its first VNO customer, AGC Marine Telecom, which will provide its mega yacht and cruise line customers with high-speed broadband connectivity. In addition to its VNO operations, CHE will be launching an IP broadband service using iDirect's next-generation Evolution DVB-S2 system with Adaptive Coding and Modulation (ACM). The investment enables CHE to develop a multiple-satellite DVB-S2 network for operators with markets in Africa and the Middle East, where space segment remains highly limited.

OMNIGLOBE BECOMES RESELLER OF INET VU MOBILE ANTENNA

Communications equipment supplier OmniGlobe Networks EMEA has signed a long-term reseller agreement with C-COM Satellite Systems, to become an authorised reseller of its iNetVu mobile satellite antennas. OmniGlobe Networks will be promoting and selling antenna communication systems to its well established customer base, spanning more than 70 countries. OmniGlobe Networks will offer the iNetVu antenna systems which are fully compatible with the world's leading satellite-based IP technologies and automatically connects to the internet at broadband speeds. The agreement with C-COM Satellite System also enables the company to enter the growing mobile VSAT and DSNB markets.

BULGARIA

TRANSAT TO PROVIDE VSAT CONNECTIVITY

Satellite communications company Transat has signed a co-operation agreement with Microsoft Bulgaria to provide software service (SaaS) applications from the last quarter of 2008. The VSAT connectivity offered by Transat will enable satellite access to SaaS applications for customers in remote areas. The idea is to market a package of broadband Internet and software solutions.

THE NETHERLANDS

THRANE & THRANE INTRODUCE VSAT SOLUTION AND NETWORK

Satellite equipment manufacturer Thrane & Thrane will introduce a maritime VSAT solution and network in September 2008. Thrane & Thrane will offer the new SAILOR 900 VSAT and various fixed broadband data packages at attractive flat rates plus additional voice channels, addressing the professional maritime market. With fixed standard data and voice packages of up to 1024/256 kbps and additional voice channels, the SAILOR 900 VSAT solution allows ship operators to be online at all times with the benefit of cutting communication costs while sailing inside the SAILOR 900 VSAT coverage area.

TURKEY

VIASAT COMPLETES ISTANBUL VSAT NETWORK

ViaSat has completed the rollout of its LinkStarS2 satellite networking system to ELIOP S.A. (Spain) for data collection, monitoring, and control of drinking and waste water operations for the Istanbul Water and Sewerage Administration General Directorate (ISKI). ELIOP has integrated its own "SHERPA" supervisory control and data acquisition (SCADA) technology with LinkStar terminals to gather information on water reservoir levels, pipeline integrity, water quality, and drinking and waste water distribution management for a community of 15 million customers. ViaSat supplied the complete satellite communication network including the antennas, satellite transmission electronics, LinkStar hub, and 300 network terminals.

NORTH AMERICA

GLENTEL TO PRESENT NEW VSAT TECHNOLOGY

Wireless communications solutions provider Glentel Inc has showcased a new generation of VSAT-based satellite services. The new VSAT system was developed to meet the needs of supervisory control and data acquisition (SCADA) users who require more robust and reliable remote infrastructure. Glentel's new system offers virtually guaranteed data transfer at a cost comparable to traditional radio links. From its state-of-the-art hub, located in Edmonton, Glentel's VSAT services can configure, monitor and control thousands of remote sites across North America. Each compact terminal including a satellite modem, IP router, TCP optimization over satellite, 3DES/AES encryption and QoS/prioritization.

UNITED STATES

BROADPOINT AWARDED SEACOR MARINE CONTRACT

Telecommunications and network solutions company Broadpoint has been awarded an additional contract from SEACOR Marine, a leading provider of support services to oil and gas operators. The contract covers connectivity services for five new vessels. SEACOR will be able to provide its crews and passengers with more reliable and convenient voice and data services, including wireless Internet. In addition, on the SEACOR Cheetah, the ability to transmit video over satellite will act as a safety measure, enabling experts on shore to view vessel conditions in real-time.

US MONOLITHICS LAUNCHES NEW SATELLITE PRODUCTS

US Monolithics has launched a line of commercial C- and Ku-band satellite transmit and receive products. New products include C- and Ku-Band low-noise block down converters (LNBs) and block up converters (BUCs) specifically designed for (VSAT) satellite communication terminals. The product line includes a series of high-stability free running DRO and PLL LNBs, Ku-band BUCs from 1W to 150W, and C-band BUCs from 1 to 300W.

SATELLITE INDUSTRY OPPOSES KU-BAND TERRESTRIAL SERVICE

The global satellite communications sector has asked the U.S. Federal Communications Commission (FCC) not to allow terrestrial

fixed services to operate in the 14.0-14.5 GHz band due to potential interference to fixed and mobile satellite-based services provided using the band. The Global VSAT Forum (GVF) and European Satellite Operators Association (ESOA) called upon the FCC to dismiss a Petition for Rulemaking submitted by the Utilities Telecom Council and Winchester Cator to share Ku-band spectrum. The GVF and ESOA claim that the proposals by the Telecom Council and Winchester would not protect present and future fixed satellite service operations from harmful interference and likely would result in harmful interference even at modest deployment levels.

ACCELENET TO IMPROVE MILITARY OPERATIONS IN IRAQ

IAP Worldwide Services has selected Intelligent Compression Technologies' AcceleNet WAN optimization and application acceleration client software to speed the application experience of its staff in Iraq. The purchase represents the first implementation of several projects using limited bandwidth networks and long-range satellite links by IAP, a provider of support services to the U.S. Department of Defense and other federal, state, and foreign governments. The AcceleNet client is designed specifically to improve performance of public and secure web applications, file shares, and email over networks with limited bandwidth, latency and high packet loss, including 3G wireless, DSL, and satellite.

NORSAT LAUNCHES 12 NEW LANGUAGE VERSIONS

Satellite solutions provider Norsat International has released its advanced satellite acquisition and terminal control software, LinkControl, in 12 new languages. Norsat LinkControl is now available in a total of 15 different languages: Arabic, Bahasa, Chinese (Simplified and Traditional), Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish and Turkish. Norsat LinkControl software allows users to operate all aspects of a portable VSAT terminal from a single console. LinkControl is also compatible with modems from Radyne, iDirect and Paradise and transmitters from Xicom.

VSAT RECEIVES USD 52 MILLION ORDER

ViaSat has won a delivery order valued at approximately USD 52 million for Multifunctional Information Distribution System terminals from The Space and Naval Warfare Systems Command (SPAWAR), San Diego. By gathering information into a digital view of the battlefield, MIDS provides greater situational awareness in combat for the U.S. Navy, Air Force, Army, Marine Corps, and for U.S. defense partners. The secure, high capacity, jam resistant wireless (non-satellite) system connects users with both digital data and voice communications. Delivery of Lot 9 units is expected to begin in May of next year and continue through the first quarter of ViaSat's fiscal year 2011.

SEAMOBILE WINTS GSA CONTRACT

SeaMobile Enterprises' MTN Satellite Services division has won a contract from the General Services Administration (GSA) to provide its full suite of satellite communication services to government agencies, including the U.S. military, via its GSA schedule. GSA is an independent agency of the United States government dedicated to help manage and support the basic functions of federal agencies. MTN Satellite Services offers "Always On - Always Available" worldwide connectivity through its integrated

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global C-Band and multi-regional Ku-Band VSAT networks. Its advanced IP overMPLS backbone is approved for use with U.S. government encryption technologies, and provides a secure and robust integrated global network.

TCS AWARDED USD 246 MILLION U.S. ARMY CONTRACT

Wireless communications provider TeleCommunication Systems (TCS) has been awarded an indefinite delivery/indefinite quantity delivery order with a potential value of USD 246 million over the next 39 months. The delivery order is with the U.S. Army Communications-Electronics Life Cycle Management Command (CECOM LCMC) to support its need for rapidly deployable and highly secure satellite communication access to broadband satellite services.

SEAMOBILE TO PROVIDE IPTV PLATFORM FOR CRUISE SHIPS

Wave Entertainment Network, a division of SeaMobile Enterprises, has presented its IPTV television platform available to the cruise line industry worldwide. The continually expanding line-up includes linear and on-demand programming services from major media companies such as A&E Networks, CBS, Comcast, Cox Communications, Discovery Networks, Fox Cable, Fox News, NBC Universal, Twentieth Century Fox Studios and Viacom. In addition, cruise line guests who are sailing in the Mediterranean are able to view television programs in a variety of different languages from the top European providers, including Euronews, BBC News, BBC Prime, France 24, TV5 Monde, RAI International, RAI News 24, DW TV, ARD, and TVE International.

LATIN AMERICA

BRAZIL

SHIRON SATELLITE WINS VSAT CONTRACT

Shiron Satellite Communication's Brazil office has closed a commercial agreement with Sanmina-SCI to produce state-of-the-art, broadband satellite communication VSATs locally in Hortolândia (SP), district of Campinas. Shiron will be the first and only company to have local production of VSATs in Brazil. Currently, more than 20,000 VSATs are imported every year into Brazil, and the country's installed base exceeds 100,000 VSATs. With Coldecon and Anditel/IPC in Colombia, Shiron has deployed over 7,000 VSAT terminals in 2007, and is deploying, for the first time in Latin America, 3,000 iRG-S2/ACM VSATs with 16APSK ACM (Adaptive Code Modulation) outbound and an 8PSK with FEC 8/9, the most efficient VSAT system deployed.

ASIA & PACIFIC

BANGLADESH

FIRST PRIVATE INTERNET GATEWAY OPERATIONAL

The first private International Internet Gateway (IIG) started operating in Bangladesh in June. Two POPs have been installed in Dhaka and Chittagong in the first phase of operations, to be expanded later. Mango Teleservices, a unit of Dhaka-based Communication Solution Limited, set up the IIG in partnership with multinational corporation Cisco Systems, Inc. The

IIG operator will give internet service providers and businesses high speed, high bandwidth international connections through its network. Mango's IIG will be connected with the existing submarine cable as its main link and with the Satellite Earth Station/VSAT as its back up until another submarine cable is available.

FIJI

TFL PROVIDES VSAT HUB FOR VANUATU COMPANY

Vanuatu's telecom company has been assisted by the Telecom Fiji Limited (TFL) in providing telecommunication services to its remote customers through its VSAT hub based in Yaqara. Like Fiji, Vanuatu has customers in remote lying areas whose only means of access to telecommunication services is via satellite. Two years ago TFL made a substantial investment in its upgrading of the VSAT service through its partnership with Gilat using their Sky Edge technology.

INDIA

RAILWAYS TO GET VSAT COMMUNICATION HUB

Indian Railways will soon have its own state-of-the-art communication network as it has signed a contract with Hughes to set up its first dedicated VSAT communication hub. The VSAT hub would allow the Indian Railways to not only offer a host of mission critical applications but also provide Internet access on running trains. The commissioning of the dedicated VSAT hub will allow Indian Railways to connect 1,000 locations across 19 States and give voice and data connectivity for their services at remotely

located stations where fixed and mobile network of telecom operators have not reached so far.

TATANET PARTNERS WITH VT IDIRECT AND STELECTRONICS

Satellite-based IP communications technology supplier VT iDirect together with its sister company, ST Electronics (Satcom & Sensor Systems) has announced a strategic partnership with Tatanet Services, an Indian VSAT service provider. Tatanet has implemented an iDirect Series 15000 Universal Hub in Mumbai, which will enable it to expand its business across multiple developing markets that require specialized service capabilities. Through iDirect's Intelligent Platform, Tatanet can provide satellite VPN, VoIP and Internet broadband services to major enterprises and organizations, supporting remote communications, business continuity networks and a wide array of critical IP applications.

ISRAEL

GILAT SHAREHOLDERS APPROVE MERGER WITH GALACTIC

The shareholders of Gilat Satellite Networks approved the Agreement and Plan Merger, dating back to March 31, among Gilat, Galactic Holdings and Galactic Acquisition Company, pursuant to which Galactic Acquisition Company will be merged into Gilat. Gilat will continue as the surviving entity and will become a wholly-owned subsidiary of Galactic Holdings. Gilat Satellite Networks is a provider of IP based digital satellite communication and networking products and services. The Company designs, produces and markets VSATs and related VSAT network equipment.

JAPAN

BB SAT TO PROVIDE SATELLITE BROADBAND SERVICE

Beginning October 1, BB SAT will demonstrate two-way consumer satellite broadband service in Japan. The demonstration service is aimed at showing how broadband satellite service can solve Japan's "digital divide" problem of several million households, and how this service can be a significant part of the government's strategy to provide broadband service to all citizens. Two towns in the Japanese "digital divide", Shobara in Hiroshima prefecture and Tsuru in Yamanashi prefecture, have been selected as sites for this initial demonstration service. The demonstration service will use the ViaSat Surf-Beam system already in widespread use in the U.S. and elsewhere. Satellite capacity is being provided by Space Communications Corporation using their Superbird B2 spacecraft.

MALAYSIA

TELEKOM MALAYSIA AND NUMIX TO LAUNCH BROADBAND SERVICE

The partnership venture of Telekom Malaysia Berhad (TM) and Numix Engineering has contracted 5 MHz of transmission capacity on the NSS-6 satellite at 95 degrees East to launch two-way Ku-band broadband services targeting Malaysia and other countries in South East Asia. TM is Malaysia's leading next generation communications and broadband provider. Numix Engineering provides local expertise involved in the supply and system integration of high technology products.

SINGAPORE

SINGTEL EXTENDS MARITIME SOLUTIONS VIA SES NEW SKIES

Singapore Telecommunications is extending its suite of maritime satellite solutions globally by contracting capacity on SES New Skies' NSS-7, NSS-703 and NSS-5 satellites. Terms of the three-year deal for up to 5MHz of capacity over the three satellites remain confidential. The SES New Skies satellites will also support demand for Singapore Telecommunications's (SingTel) OfficeAtSea@SingTel suite of Maritime VSAT solutions, which enable vessels to communicate seamlessly and cost-effectively with their headquarters on land. Solutions include 'always-on' unlimited broadband internet access, email, low-cost VoIP calls, GSM onboard and ship surveillance.

AFRICA

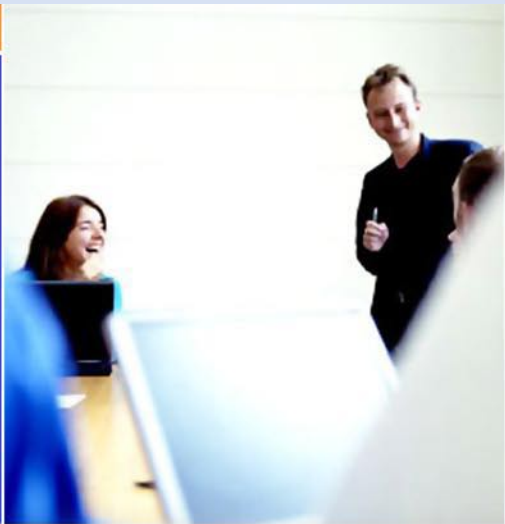
KENYA

KENYA TO GET NEW VSAT NETWORK

Kenyan businesses are to get a new VSAT network to deliver high quality voice, broadband data and video services. The new network is expected to be used primarily by banks and financial services companies to provide private networking services, including interactive data, broadband Internet access, VoIP and client-server banking applications to their customers throughout Kenya. The network, comprising SkyEdge II IP VSATs and a SkyEdge II hub which supports multiple satellites, will cover sites in various parts of Kenya. The Kenyan network



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will be commissioned and operated by Alldean Satellite Networks, a Kenyan satellite service provider offering both domestic and cross-border connectivity to virtually anywhere in Africa.

NIGERIA

EMPERION WEST AFRICA INTRODUCES VIDEO CONFERENCING

In its effort to help corporate institutions, multi-nationals and small enterprises as well as individuals reduce the rate of travelling, thereby saving cost and time, Emperion West Africa, one of Nigeria VSAT providers has pioneered the introduction of Videoconferencing on demand. Managing director, Sandeep Jayaswal, said that kiosks would be erected throughout the country where anyone could walk in at a pre-planned period and put through a videoconference call. Emperion designs, deploys, operates and maintains broadband IP communication solutions and services based on digital satellite (VSAT) and fixed wireless access (FWA) networks.

GALAXY BACKBONE PROMISES LOWER INTERNET COSTS

Telecommunication service provider Galaxy Backbone has vowed to reduce internet costs by deploying latest technology in the country and deploy ICT infrastructure in all 774 local government areas. According to director general, Gerald Ilukwe, the main goal of Galaxy Backbone was to build and operate a single nationwide IT infrastructure platform, to provide network services to all Federal Government ministries, departments and agencies (MDAs), and equally provide connectivity and digital access that would enable relevant solutions for governance, education to rural areas and other underserved communities in Nigeria. He added that the network operation centre located at Ahmadu Bello way in Abuja, is "largest and most sophisticated VSAT network in West Africa, if not in Africa".

NIGERIAN BANK ACQUIRES PRIVATE TELECOM OPERATOR

According to the "Business Day" newspaper, an unnamed bank is believed to have acquired private operator Prest Cable and Satellite TV Systems (Prestel). Prestel currently operates a CDMA2000 1x network covering eleven of the country's 36 states of the federation. It also has a licence for commercial VSAT installation to provide broadband services and data communication for government sectors, private organisations, banking and financial institutions. Business Day states that Prestel strengthened its position in the Nigerian telecommunications market when it obtained a unified access service (UAS) licence for NGN260 million in July 2006.

NIGERIA TO DEPLOY 1,500 VSAT TERMINALS

Within a three-year period, Nigeria has received the sum \$1.2 million (about N150 million) from the Universal Postal Union as grant to improve postal services in the country. The Nigeria Postal Service (NIPOST) is set to deploy 1,500 very small aperture terminals, VSAT in the post offices across the 36 states of the federation. Nigeria is collaborating with France to finance building and deployment of VSAT across the 36 states of the federation and this should be completed in 15 months. This will make possible the introduction of many services, including cyber cafe services in rural areas.

SOUTH AFRICA

INTERNET SOLUTIONS SELECTS ND SATCOM SKYWAN

ND SatCom's technology platform SkyWAN has been selected by Internet Solutions (IS), a leading South-African converged communications service provider, to set up a VSAT network for the Pan-African trade association COMESA. COMESA will connect its offices throughout

the continent to its headquarters in Lusaka, Zambia, for office applications such as internet access, file transfer, phone, fax and email.

WORLD

SPACENET INTRODUCES INSTANT VSAT SOLUTION

Spacenet has introduced a new ION instant VSAT communications solution that enables rapid deployment of complete converged communications through satellite for emergency response teams and remote industrial operations such as oil rigs, mines and construction sites. Available immediately with Spacenet's commercial grade Connexstar service, the new self-contained and field kit offers a turn-key voice, video and broadband data solution, according to the company. The company said that ION can also be deployed as part of a custom developed satellite network. Spacenet's ION is designed with emergency response personnel in mind, and can be easily carried and deployed by one or two people, can be checked as luggage aboard commercial airlines, or integrated into a mobile command vehicle.

KVH AND VIASAT ROLL-OUT MINI VSAT NETWORK

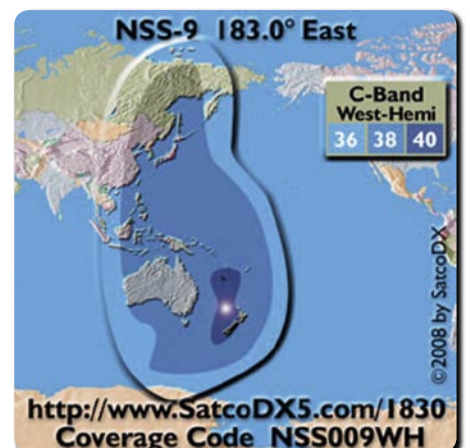
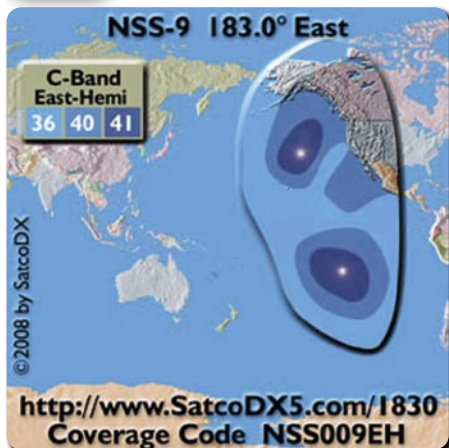
In-motion satellite TV and communications provider KVH Industries has announced a new agreement with ViaSat, to begin the global rollout of mini-VSAT broadband satellite communications service. Under the terms of the deal, KVH and ViaSat will roll out an exclusive global network offering access to KVH's mini-VSAT broadband service for maritime use with airtime revenue to be shared between the two companies. KVH has agreed to acquire satellite capacity from Ku-band satellite operators as well as purchase three new regional satellite hubs from ViaSat. These hubs will use ViaSat's ArcLight spread spectrum mobile broadband technology and be operated by ViaSat.

New Satellites



Edited by
Sylvain Oscul

The Ariane 5 ES-ATV launcher, on its mobile launch table, shortly after its transfer from the Final Assembly Building (BAF) at the Launch Zone (ZL-3) of Ariane Launch Complex no.3 (ELA-3) at the Guiana Space Centre, Europe's Spaceport, on 7 March 2008, for fuelling and final launch preparation. Also visible are two of the four 100-m-tall lightning towers surrounding the launch pad." (Photo: ESA - S. Corvaja 2008; http://www.esa.int/images/_SCO1025_L.jpg)



NSS 9

This satellite will be launched from French Guiana by Ariane 5. NSS-9 will be positioned at 183° E

(177°W) and will replace NSS-5 with three C-band beams. The satellite will carry 44 active C-band transponders with a global beam providing cov-

erage of the entire earth. NSS 9 is intended to free up NSS 5 which in turn will then be free to relocate to 57 degrees to replace NSS 703.

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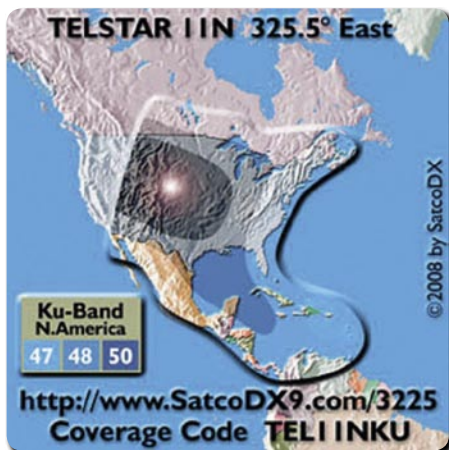


HOTBIRD 9

With a Ariane 5 launcher, this new HOTBIRD will be co-located at 13°EAST, designed to cover all 102 Ku-band transponders at the HOTBIRD position, it will be able to substitute any transponder on any other HOTBIRD satellites. Manufactured by Astrium with a Eurostar 3000 spacecraft type, the satellite has a minimum of service life of 15 years.

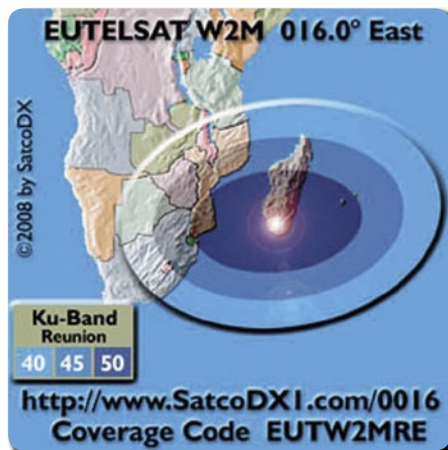
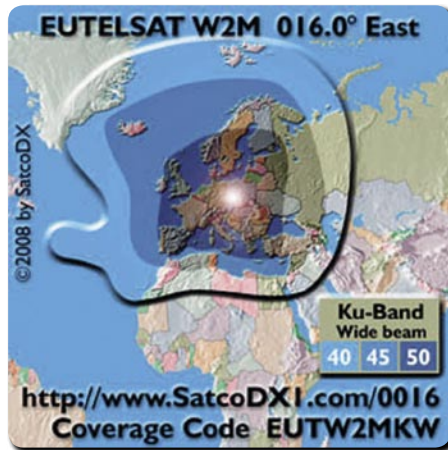
TELSTAR 11N

The new Loral Skynet satellite called TELSTAR 11N will provide service from 39 high-power Ku-band transponders beams. The satellite will be positioned at 322.5°E (37.5°W). TELSTAR 11N is dedicated to complement the coverage of TELSTAR 12 satellite at 345°E (15°W), which provides Ku-band trans-Atlantic coverage.



EUTELSAT W2M

EUTELSAT W2M will operate 26 transponders in Ku-band and up to 32 depending on operational modes, at EUTELSAT's 16° E position. The satellite is planned to be launched with TELSTAR11N in October 2008 from Kourou with Ariane 5 launcher. The fixed beam will cover Europe, North Africa and the Middle East, while a steerable beam can be re-oriented in-orbit according to market requirements.



ASTRA 1M

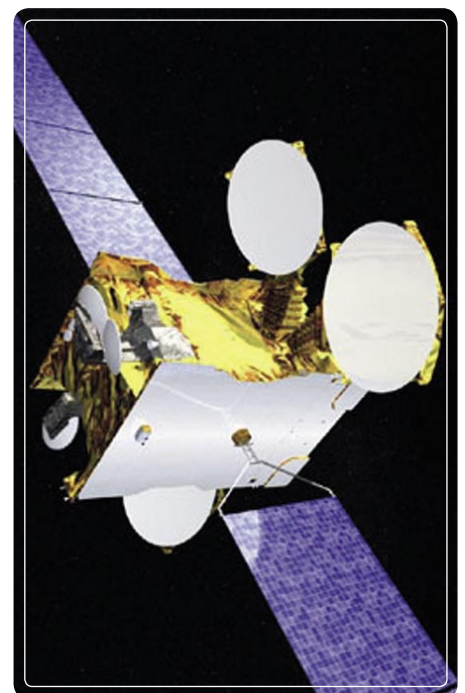
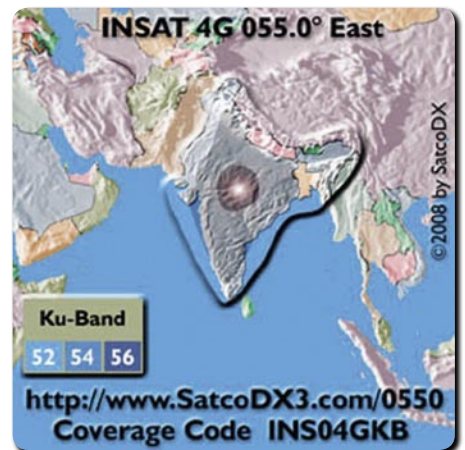
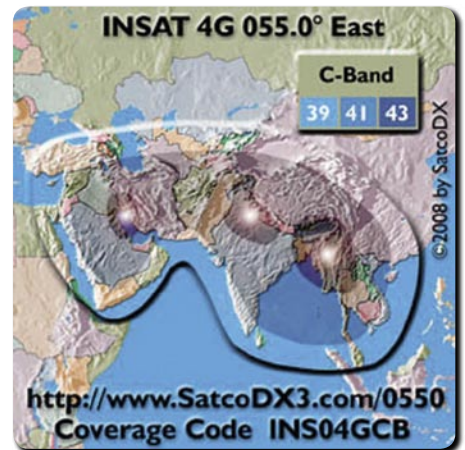
The satellite will be launched from the Cosmodrome in Kazakhstan by a Proton M launcher. EADS Astrium has manufactured this last ASTRA satellite called 1M spacecraft based on its Eurostar E3000 platform, the latest version of the Eurostar series, which became first part of the SES fleet with the ASTRA 2B spacecraft launched in Sep-



tember 2000. ASTRA 1M embeds 36 transponders for the first five years. The satellite is specified for a minimum service life of 15 years.

INSAT 4G

INSAT4G is proposed as a Ku-band satellite carrying 18 transponders similar to INSAT4A. It will also carry 2 BSS transponders and a GAGAN (GPS Aided Geo Augmented Navigation). The satellite will be launched by an Ariance vehicle from Kourou.



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- 13.0E Hotbird 6,7A,B
- 19.2E Astra 1E,1F,1G,1H,1Kr,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:

Address: London
Latitude: 51.504°
Longitude: -0.110°

Satellite: 19.2E Astra 1E,1F,1G,1H,1Kr,2C
Elevation: 28.3°
Azimuth (true): 155.9°
Azimuth (magn.): 158.2°
LNB skew: -7.2°

You can click & drag the marker.
zoom in | zoom out

References



www.dishpointer.com
info@dishpointer.com

Feedhunter Rini



What you see in your local evening news broadcast has to first find its way from the event location to the TV station's studio. This path typically involves the use of a satellite to get it from one point to another. This type of transmission is referred to as a feed and there are those that have made finding these satellite feeds their hobby. One of those happens to be Rini de Weijze who calls himself Feedhunter Rini, a name he uses to a number of different Internet satellite forums. How do you end up being a feedhunter? We asked Feedhunter Rini that very same question.

Feedhunter Rini has lived in his present home in northern Holland for 33 years. He was a bank manager but is now retired and can therefore spend more time playing with his hobby.

We wanted to know how it all started. Rini was kind enough to explain: "When I was 16, I stumbled onto Radio Moscow while listening to the airwaves and was completely surprised to discover that the transmission was in Dutch." This was the start of his interest in listening to the radio that culminated in the reception of shortwave ship transmissions in SSB.

But he became infected with the satellite virus when he one day spotted a satellite dish. Without any hesitation, he asked the owner of that dish what he was receiving with it.

"It was a 90cm antenna that is still hanging in the same spot today. Back then, the owner, Klaas van der Lingen patiently revealed to me everything he was able to receive with his Echostar receiver", explained Rini of that day.

Not too long after that, an 80cm dish from Triax with positioner was hanging on his own exterior house wall.

"My most interesting experience was the pirate transmissions from the Amateur TV club PI6ALK", remembers Rini, "they simply switched the uplink from the Amateur TV satellite OSCAR over to EUTELSAT 16E and started transmitting." Naturally, the Dutch authorities quickly put an end to that, but for Rini it was quite an experience to see how easy these transmissions could find their way onto a satellite.

In 2004 he upgraded to a 90cm antenna and in 2005 he installed a 90x99cm Fibo antenna with sub-reflector that he still uses today.

He dreams of having a real DX station on an open piece of land on which, together with his friend Ron Ebersson, he can erect large dishes. "We can even get a hold of a used 2.4-meter antenna but it's not so easy to find the space for it." We wish him luck in his search!



Feedhunter Rini on the first floor of his home right next to his 90x99cm dish with sub-reflector he uses for his satellite reception. He can receive satellites from 54° east to 45° west.

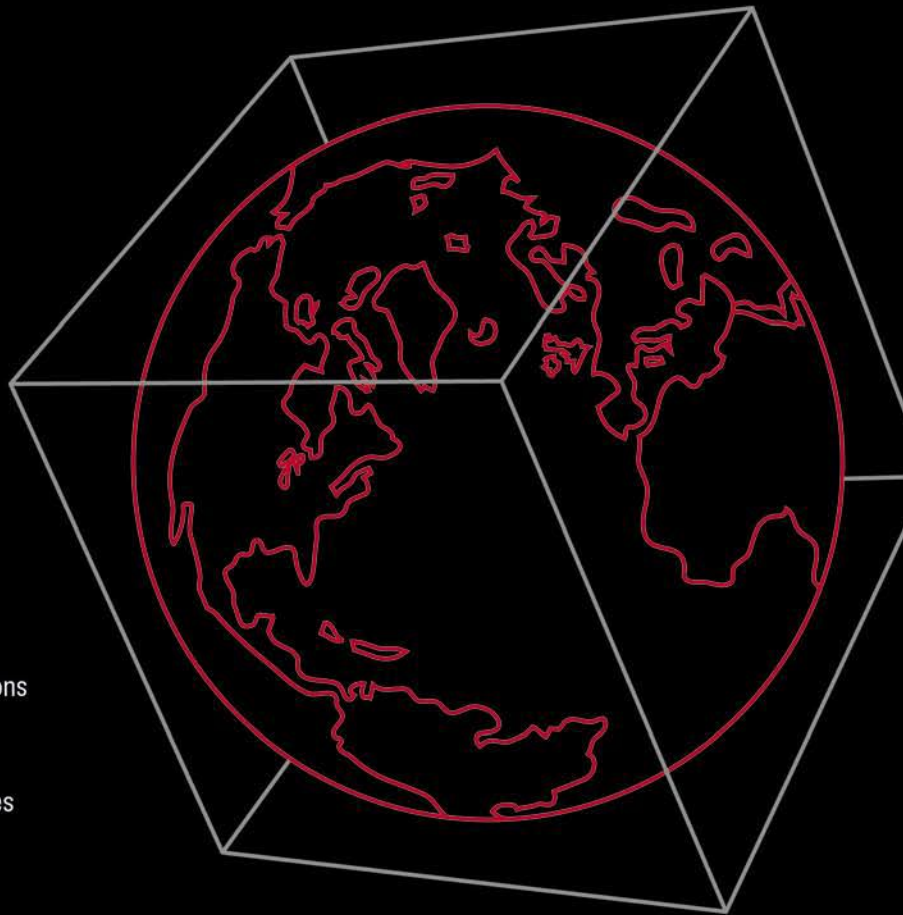


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Reception in his PC is handled by a SkyStar 2 card and the DVBdream software. With the push of a button he makes screenshots that he then uploads to the satellite forums.

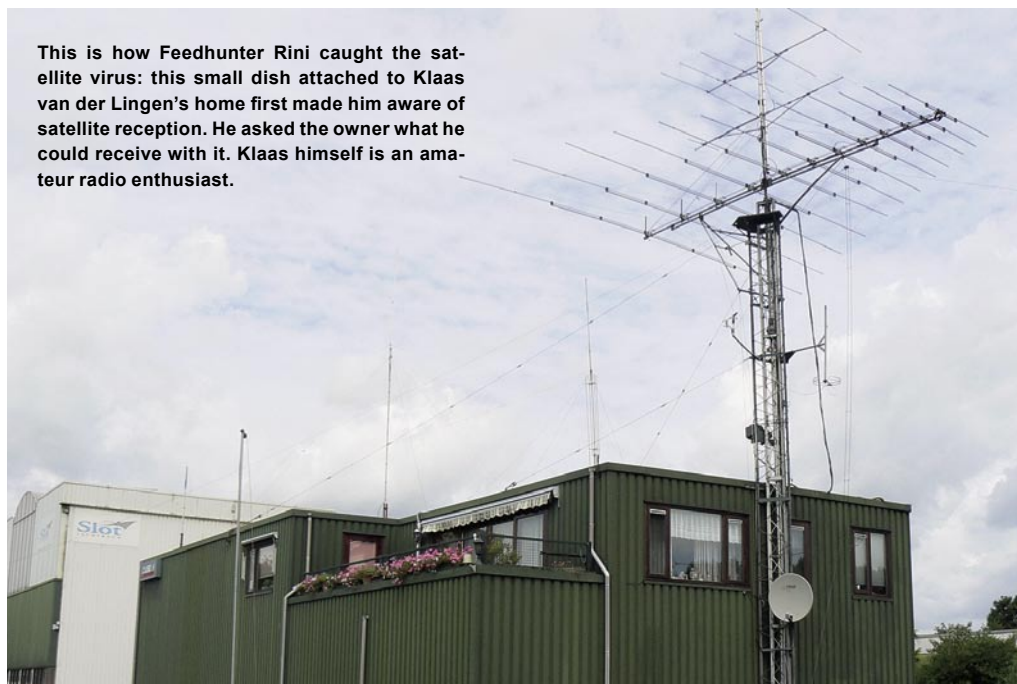


Feedhunter Rini at work feedhunting: with his Quad LNB he connects to three receivers and a satellite card in his PC. He uses a FortecStar box with Aston positioner and DiSEqC converter to move his antenna, as well as a Max Plus and a Max Digital receiver. His TV monitor is set to A/V mode for his Max Digital receiver and he uses two UHF channels to receive the signals from the FortecStar or Max Plus boxes. With a homemade video switch he can send the video signal from his two Max receivers to the video card in his PC to get screenshots of different programs he can't receive with the built-in card.

SATELLITE	FROM	TILL	POLARIZATION	NUMBER OF FEEDS	FROM	TILL	POLARIZATION	NUMBER OF FEEDS	FROM	TILL	POLARIZATION	NUMBER OF FEEDS
2 East ASTRA 1C	11200	12750	H+V	<+>7								
3 East TELECOM 2C	12500	12750	V	<+>7								
4 East EUROIRD 4	10950	11400	H	<+>7	12500	12570	H+V	<+>7				
5 East SIRIUS	12140	12750	H+V	<+>7								
7 East EUTELSAT W3	10960	11200	H+V	<+>7	11370	11420			12510	12560	H+V	<7
9 East EUROIRD 9	No Info											
10 East EUTELSAT W1	10950	11200	H+V	<+>7	12520	12745	H+V	<7				
13 East HOTBIRD	10700	12750	H+V	<+>7								
16 East EUTELSAT W2	10960	11200	H+V	<+>7	11680	11700	V	<7	12500	12750	H+V	<+>7
19.2 East ASTRA	10955	12750	H+V	<+>7								
21.5 East EUTELSAT W6	10955	11000	H+V	<7	11010	11700	H+V	<7	12500	12700	H+V	<7
23.5 East ASTRA	11450	11690	H	<7	12620	12710	H+V	<+>7				
26 East ARABSAT 2	11100	11200	H+V	>7	11630	11660	H+V	>7	12520	12740	H+V	<+>7
28.2 East EUROIRD1/ ASTRA	12500	12750	H+V	<+>7	11470	11490	V	<+>7				
30.5 East ARABSAT 2B	12520	12540	H	<7								
33 East EUROIRD 3	10955	11190	H+V	<+>7	11620	11700	H+V	<+>7				
36 East EUTELSAT W4	10955	11700	H+V	<+>7	12640	12660	V	<7				
39 East HELASSAT	10950	11150	V	<7	11450	11700	H	<7	12550	12660	H+V	<7
40 East EXPRESS 1AR	11030	11200	V	<7	11450	11640	H+V	<7				
42 East TURKSAT/EURASIA	10950	11200	H+V	<+>7	11480	11970	V	<7	12510	12750	H+V	<7
45 East EUROSTAR 1	11450	11690	V	<7	12510	12710	H+V	<+>7				
53 East EXPRESS AM22	11080	11700	H+V	<7	12630	12670	H+V	<+>7				
54.8 East INTELSAT 702	11100	11150	V	<7								
57 East NSS 703	11040	11550	V	<7								
1 West INTELSAT/THOR	10980	11200	V	<7	11460	11680	V	<7				
4 West AMOS	11150	11350	H	<+>7	11415	11580	H	<7				
5 West ATLANTICIRD 3	10950	11200	H+V	<+>7	11450	11700	H+V	<+>7	12540	12700	H	<+>7
7 West NILESAT	10700	12750	Div									
8 West ATL.BIRD/TELECOM 2D	12500	12750	H+V	<+>7	11450	11680	H+V	<+>7				
11 West EXPRESS 3A	11480	11700	V	<+>7								
12.5 West ATLANTICIRD	10950	11200	H+V	<7	11325	11700	H+V	<7	12530	12760	H+V	<+>7
15 West TELSTAR 12	11000	11040	V	<7	11450	11700	H+V	<7	12520	12750	H	<+>7
18 West INTELSAT 901	10960	11700	H+V	<+>7								
20 West INTELSAT 603	10940	11700	H	<+>7								
22 West NSS 7	10950	11160	H	<+>7	11465	11700	H	<+>7	12510	12720	H	<+>7
24.5 West INTELSAT 905	11050	11690	V	<+>7								
27.5 West INTELSAT 907	10950	11700	V	<7								
30 West HISPASAT	11460	11680	H+V	<+>7	12035	12180	H+V	<+>7	12535	12750	H+V	<+>7
31.5 West INTELSAT 801	10960	11050	V	<+>7								
34.5 West INTELSAT 903	11120	11700	V	<+>7	10960	11000	V	<7				
37.5 West TELSTAR 11	11500	12750	H+V	<7								
43 West INTELSAT 3R	12500	12750	H+V	<+>7								
45 West INTELSAT 1R	11480	11700	H+V	<7								

This list compiled by Ron Ebersson and Feedhunter Rini and constantly kept up to date by them is the key instrument for looking for new feeds on a daily basis. The list shows satellites which are used for feeds, as well as the frequency ranges, polarisations and average number of feeds. To start with, Feedhunter Rini rotates his dish to the required satellite. Next, he lets his receiver scan only the range between the two frequencies and this way finds the feeds as quickly as possible. On his PC he then makes screenshots and uploads the files to specialist satellite forums such as sat4all.com and dxtv.eu. Other feedhunters therefore can find out within minutes which feeds are currently active. If you like to have a go for yourself you should begin with choosing a satellite that transmits many feeds so that your chances of actually discovering a feed are highest. Bear in mind, though, that feed transmissions often only last for a few minutes. Only rarely are they active for more than an hour – such as when a football match is transmitted, for example.

This is how Feedhunter Rini caught the satellite virus: this small dish attached to Klaas van der Lingen's home first made him aware of satellite reception. He asked the owner what he could receive with it. Klaas himself is an amateur radio enthusiast.

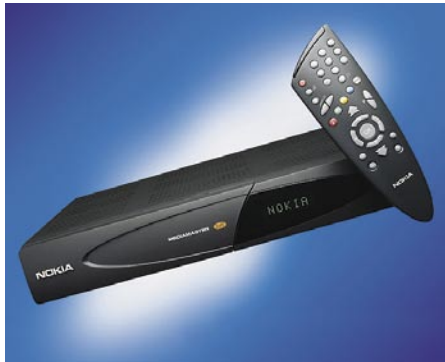




Edited by
Alexander Wiese

Nokia Mediamaster 9800S

Almost everyone in the digital satellite reception market was curious about the successor of the famous Nokia 9200/9600 family of satellite receivers. Almost three years after the European launch of digital satellite television, it seems that Nokia has set the market standard for digital set-top boxes.



No wonder, it was the first receiver capable of doing software and settings updates over the air, but even more importantly through the Internet. Get the latest channel lists from the Internet and upload them into your receiver within minutes. It saves a lot of time and your receiver always has up-to-date channel settings.

MTI LNB AP8-T2

For most experts, Microelectronics Technology is probably better known as MTI. Professionals have known MTI for years by their VSAT installations,



SCPC reception units and microwave transmitters. Of course, the development of LNB is a continuous process whereas improvements are made over and over again. Recently, MTI has introduced the AP8-T2 LNB. As a professional manufacturer should, MIT do their best providing realistic specifications. For MTI, the outstanding performance of the AP8-T2 is very stable in its LOF. We ordered two samples and gave them a thorough test, not in our lab but up on the roof. Only the extreme temperatures in our test had to be created artificially.

Radix S.T.E.A.L.T.H.



10 Years Ago

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TELE-satellite Magazine
Issue 10/1998**

In last issue, we reported about our visit to the Radix distributors meeting. There, the official introduction of their latest receiver, the Radix Stealth, took place. Most distributors immediately placed their orders. We took one sample with us and gave it a thorough test. And now, just before the holidays are coming, the Stealth has hit the shops. What is so special about it? You may associate the name with invisibility. That is almost right. Of course, the box is not really invisible, but you can put it anywhere behind books or in a cupboard.

Hirschmann Hit-Sat

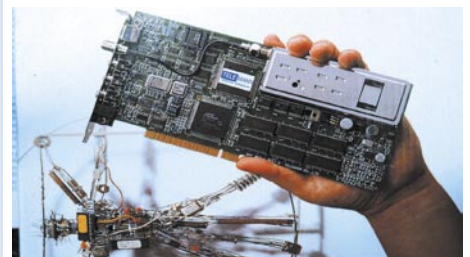
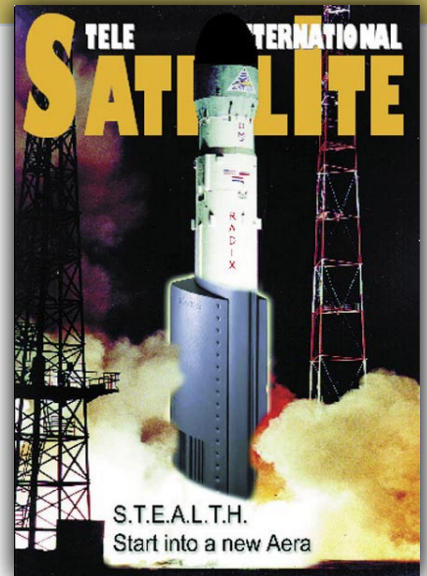
Hirschmann offers a complete kit with all components you need to get started right away. All included in one sturdy box are a dish (65, 75 or 85 cm), a universal LNB (digital compatible) and an analogue Satellite receiver.



The included LNB is a Twin LNB, so it is very easy to connect an additional digital receiver, which can be operated completely independent of the analogue box. Another fine solution could be the use of one dish for two households.

SkyMedia 200

Special MPEG streams on satellites all over the world contain Internet information and other data such as pre-selected material or continuous streams of information. You will need a personal computer if you want to subscribe to such a service. But as there's more



digital stuff on satellites nowadays, such as TV channels, why not receive them as well? Telemann-Satellite Solutions offers the SkyMedia 200, a special PC card that allows reception of almost all kinds of digital satellite signals. The television or radio signals can be fed to

your television or hi-fi set, and the data services stay where they belong—on your computer. Professionals can now watch CNN (available on almost every satellite) and at the same time receive data services from the same orbital position. But this combination makes sense even at home. You can, for instance, use a satellite-based Internet service while the rest of the family watches a digital channel on the usual TV set.

Prosat P-2002S

Two years ago a minimalist digital receiver would set you back some 900 Euros—only to allow you



stations cover the geostationary arc from 45° West to 180° East. That makes it very universal for a large area that includes Africa and the Mid-East.

PalMaster 1000

The technology comes wrapped in a modern design which, not quite coincidentally, matches the style of Bang&Olufsen TV sets. The brand is quite popular in Scandinavia, so the PalMaster's remote can also control B&O TVs. On the front of the receiver, a large six-digit display gives you all information you would like to see on the receiver itself. It can store up to 500 channels. A metal lid hides the three famous buttons for emergency operation. Here, there are also two smartcard slots for the MAC decoder that is built into the Scandinavian version of the PalMaster 1000. Even at the back, there is nothing special to be found: three Scart connectors, two LNB inputs (900-2150MHz), and phono jacks to get the audio signals over to your stereo.

to catch one or two digital bouquets if you were lucky. Today basic units like these are almost impossible to come by. Consumers demand digital boxes that can be used to receive all channels and services in the DVB standard—this has become the only selling argument. Nonetheless, a well equipped digital receiver for less than 350 Euros is a rare thing. TSI picked one of the few cheapies on offer and examined it to the extreme: P-2002S



DB-6000

This new digital receiver is the first box for DVB reception from Benjamin Electronics Co. Ltd. of Taiwan. They have done a very good job examining the markets before actually producing anything. First of all, this DB-6000 will strike you because of its silver colour. Finally some colour in this black box business. The metal housing makes the receiver heavy duty, sturdy and very well suitable as the foundation of a heap of other boxes. On the front, we found a large four-digit display indicating the channel ID. The DB-6000 can store up to 1000 channels. Also located on the front are the buttons for channel browsing and standby.

MSS-220

It was a very practical reason why we wanted to test the new MSS-220. In our test lab we were looking for an analogue receiver capable of processing the signals from two dishes and also being C-band compatible. On the other hand, it should also be able to store all available channels on all the important satellites. So we came across the MSS-220. For Pace it is very much common to build satellite receivers on a region specific basis, which means that you will find an appropriate decoder built in (if any) in addition to pre-programmed regional satellite channels. In the UK, for instance, the MSS-220 comes equipped with a Videocrypt decoder, but there is no decoder in it for the rest of Europe. Here, the pre-programmed



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Edited by
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Market review of rotary dishes

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D2-MAC card

D2-MAC Entwicklungszustand bei Intersat

Die Entwicklung der Chip 11 D2-MAC macht die Intersat-Freizeit zur Fortschrittsleistung. In die Bauteilherstellung am Stand auf der IFA nicht möglich war, nicht nur aus der Frage und den Schwierigkeiten, die den Chip in die Satelliten-Rezeivoren und TV-Geräte zu integrieren, sondern in einem anderen Hotel präsentieren. Selbst die in der Entwicklung. Versucht man, ein Bauteil zu integrieren, so ist die Integration in den Chip-Design nicht mit einer 4-Bit-Adresse möglich. In dem 150 000 Transistor-Struktur sind 52 000 Plätze korrespondieren. Während man die Videowerte in Griff hat, wird momentan am Design des Chips gearbeitet. Die Zeit zur Fertigstellung wird deshalb mit einigen Stunden über den Chip weiterentwickelt werden, um den Chip zu integrieren. Die Entwicklung wird weiterentwickelt, um die Integration zu ermöglichen. Eine 3-Mbit-Daten-DMA-Verfahren ist im Design-2000-System zu realisieren.

Foto: Intersat, Laborleiter eines fertigen D2-MAC-Decoder, in der Platine der abgebildeten MAC-Chip. Foto: Intersat

Grundig reveals first 100 Hz TV Set

Super-Ferriter für Satelliten

Zur Fortschrittsleistung wird der erste ausrüstung 100-Hz-Ferriter vorgestellt. Ein 4-Mbit-Speicher entpopt das Bitstrom-Frequenz, was ein flimmerndes Bild ergibt. Eine Struktur, ermöglicht die Antennen-Parameter kann als Multiovergebe alle TV-Funktionen realisieren. In der Entwicklung wird die Integration in den Chip-Design nicht mit einer 4-Bit-Adresse möglich. In dem 150 000 Transistor-Struktur sind 52 000 Plätze korrespondieren. Während man die Videowerte in Griff hat, wird momentan am Design des Chips gearbeitet. Die Zeit zur Fertigstellung wird deshalb mit einigen Stunden über den Chip weiterentwickelt werden, um den Chip zu integrieren. Die Entwicklung wird weiterentwickelt, um die Integration zu ermöglichen. Eine 3-Mbit-Daten-DMA-Verfahren ist im Design-2000-System zu realisieren.

Foto: Intersat, Laborleiter eines fertigen D2-MAC-Decoder, in der Platine der abgebildeten MAC-Chip. Foto: Intersat

Portable Satellite Receiver by Stog

PORTEBEL SAT-RECEIVER

Camping Sat

Mit Miniatur kommt ein 12 Volt Einfach-Satelliten-Receiver auf den Markt

Im Standardgehäuse mit 18 cm Breite und 5 cm Höhe läßt sich bestmögliche Bereich ein kompletter Satelliten-Receiver unterbringen. Der Nachteil, daß in so kleinem Gehäuse kein Netzteil mehr Platz hat, entpopt sich beim kostengünstigen „Galaxy“ gesteuerten Mini-Receiver von STOG als Vorteil: Es ist jedenfalls der erste Receiver der unterkommt, der mit der Autobatterie betrieben werden kann.

Das fahrende Auto wird zwar sehen zum Satellitenempfang genutzt, aber während des Campingaufbaus im Innern im Ausland läßt sich bequem das gewünschte TV-Programm auf den Leinwandbildschirm holen. Das sichere Heim-Receiver mit Fernbedienung schöpft niemand mit in den Urlaub.

Das Gerücht verfliegt aber alle notwendigen Features. Die Satellitenantenne werden über ein bodempfeiliges eingestrichelt (Hilfsweise: Bastler können eine Promotorschaltung ergänzen), ebenso die Fernabfragefrequenz. Eine AFC-Schaltung kühlt den Empfangskanal immer selbst auf Mitte.

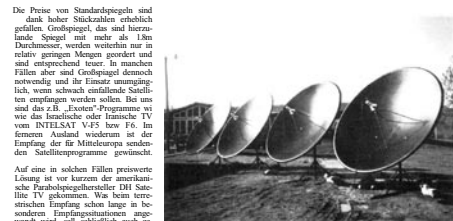
Fast an ihre Grenzen stößt die AFC beim TELECOM-Empfang, der wegen des geringen zum Empfang notwendigen Spiegels gut zum Gerät paßt. Scher ist Empfangsleistung ist notwendig, um die teilweise nur im Abstand von 50 MHz strahlenden Programme noch empfangen zu können. Auch die Tonfrequenzen erfordern Frequenzweichen, die die Harmonischen der Trägerfrequenzen, die von Mehrfachempfangskanälen so oft nicht trennen lassen.

Preis: STOG, München Str. 97, D-8000 München 50, Tel. 089/811616

20 Years Ago

Travel into the Past TELE-satellite Magazine Issue 05/1987

Multiple Dishes Pointing to Same Satellite for Higher Gain



Die Preise von Standardspiegeln sind durch hohe Stückzahlen erheblich gefallen. Großspiegel, die sind herzustellen Spiegel mit mehr als 1,8m Durchmesser, werden weiterhin nur in relativ geringen Mengen gefertigt und sind entsprechend teuer. In manchen Fällen aber sind Großspiegel dennoch notwendig und für Einsatz umganglich, wenn schwach einfallende Satelliten empfangen werden sollen. Bei uns sind das z.B. „Exoten“-Programme wie vom INTELSAT V45 bzw F6. Im Fernost Ausland wiederum ist die Empfangs der für Mittelcorpa sendenden Satellitenprogramme gewünscht. Auf eine in solchen Fällen preiswerte Lösung ist vor kurzem der amerikanische Parabolspiegelhersteller DH Satellite TV gekommen. Was beim entsprechenden Empfang schon lange in besonderen Empfangsstationen angewandt wird, soll schließlich auch gemäss beim Satellitenempfang gehen, das simple Parabolspiegel mehrerer gleichgroßer Spiegel zur Erhöhung des Empfangsleistung.

Der Chef von DH Satellite TV, Franklin A. Weeks, schrieb uns dazu:

Die Idee zu diesem Empfangskonzept entstand während einer Satelliten-Fachmesse. Im Gespräch mit Keith Anderson (Chef der Satellitenfirma Anderson Scientific, „A.S.“) erfuhr ich, dass er sich mit der Integration in den Chip-Design nicht mit einer 4-Bit-Adresse möglich. In dem 150 000 Transistor-Struktur sind 52 000 Plätze korrespondieren. Während man die Videowerte in Griff hat, wird momentan am Design des Chips gearbeitet. Die Zeit zur Fertigstellung wird deshalb mit einigen Stunden über den Chip weiterentwickelt werden, um den Chip zu integrieren. Die Entwicklung wird weiterentwickelt, um die Integration zu ermöglichen. Eine 3-Mbit-Daten-DMA-Verfahren ist im Design-2000-System zu realisieren.

Das ist ein sehr interessantes Konzept, das ich entwickeln, mehrere Antennen in Phase zu schalten, daß sie einen einzigen Großspiegel darstellen. Ich dachte, er könnte eine Weiche, Phasenschieber und darauf abgestimmte Downconverter entwickeln. Wir kamen überein, diese Idee gemeinsam zu verwirklichen. Ich liefere die Spiegel, er die Elektronik.

Soweit Franklin A. Weeks, der als Chef eines Spiegelbetriebes um die Schwei-

Das von den beiden professionellen Satellitenentwickler entwickelte System wird unter dem Namen „MANATEL“ angeboten. Die gesamte Abstrahlung nicht für „Multiple Antennas in phase for Noise Abatement and Extra Gain“. Es besteht aus zwei, vier oder acht gleichen Spiegeln beliebiger Größe je nach Notwendigkeit und ist darauf angepaßt Elektronik mit einer optimierten phasenrichtigen Zusammenschaltung.

Entsprechend der ursprünglichen Zielsetzung ist das System derzeit nur für den in ganz Amerika üblichen Empfang im 4 GHz Bereich ausgelegt. In diesem Bereich senden auch in Europa genügend viele Satelliten, die es lohnt empfangen. Vier parallel geschaltete 1,8 m Spiegel im 4 GHz Bereich entsprechend 3,6 m rechnerischer Gesamtspiegelgröße erfahren auch bei den den Empfang einer ganzen Reihe (mehr oder minder) inter-oxanter Programme (siehe 4 GHz Tabelle in dieser Ausgabe).

Von DH Satellite TV lieferbar wäre auch eine 10er Kombination: das entspricht schon fast einer „Jahreskarte“, wie es im Produktus so wand-

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TUYAP Fair and Congress Center, Istanbul, Turkey
www.cebitbilisim.com



- **15 - 17 October 2008: ScaT India**
South Asia's Largest Tradeshow Of The Indian Cable & Satellite Television Industry
World Trade Centre, Cuffe Parade, Mumbai, India
www.scatindia.com



- **29 - 31 October 2008: EEBC 2008**
6th Eastern Europe Exhibition and Conference
Kiev Expo Plaza, Kiev, Ukraine
www.eebc.net.ua



- **3 - 5 March 2009: CABSAT 2009**
Middle East's Electronic Media & Satellite Communications
Dubai World Trade Center, UAE
www.cabsat.com

- **2 - 5 February 2009: CSBT 2009**
Cable, Satellite, Broadcasting, Television
Crocus Exhibition Center, Moscow, Russia
www.cstb.ru



- **19 - 21 March 2009: SatExpo 2009**
Space and Advanced Telecommunications
New Rome Fair, Rome, Italy
www.satexpo.it



- **25 - 27 March 2009: Satellite 2009**
Exhibition for Satellite Enabled Communication
Walter E. Washington Convention Center, Washington, USA
www.satellite2009.com

- **March: CCBN 2009**
The 17th China Content Broadcasting Network Exhibition
China International Exhibition Center, Beijing, China
www.ccbn.tv



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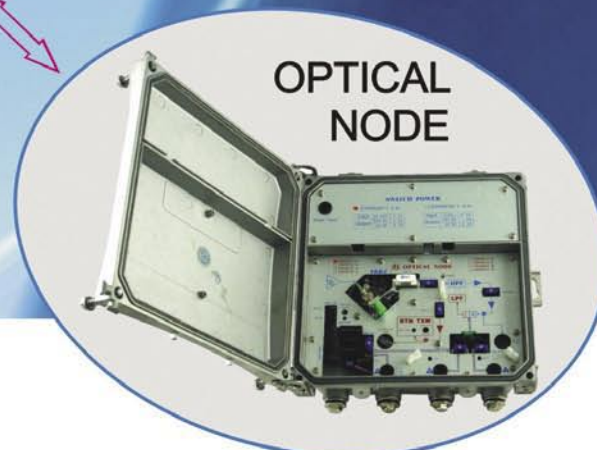
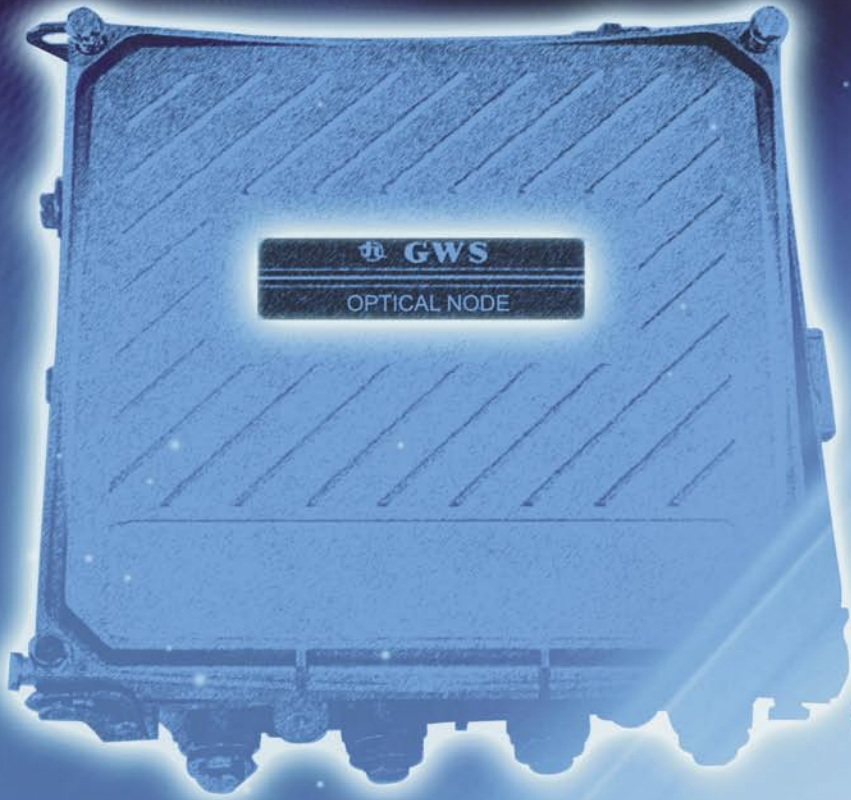
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