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with USB PVR for Recording



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

USB Features:

- ✓ Record/Playback Scrambled & Free-To-Air (FTA) Channels by USB 2.0
- ✓ Pause Live TV by Timeshift via USB 2.0
- ✓ Forward/Rewind Recordings
- ✓ USB 2.0 for Software Download/Upload, MP3 & JPEG Playback
- ✓ Rear Mounted USB 2.0
- ✓ Silver or Black

Based on the HIGHEST Rated Satellite Receiver...ever! (92%)

The TM-5200 D USB reviewed by What Satellite Magazine (Jan 2008)

TM-5200 D USB
super

Free-To-Air Satellite Receiver

TM-5300 D+ USB
super

with Built-in Smart Card Reader

TM-5400 CI+ USB
super

with Card Reader + Common Interface

TM-5600 CI USB
super

with Common Interface

High-Definition

Satellite & Terrestrial Receiver

TM-6900 HD COMBO Super



- ✓ Based on the Award Winning TM-6900 HD COMBO
- ✓ 2x USB 2.0 Ports (Front + Rear)
- ✓ Very Fast & Detailed Hardware Blind Search
- ✓ RF Modulator
- ✓ eSATA
- ✓ Ethernet Communication Port

- 10,000 Channels
- Record Scrambled & FTA Channels by USB
- Timeshift
- MP3 & JPEG Playback & Data/Software Transfer by USB 2.0
- 1080i, 720p, 576p & 576i
- MPEG-2, MPEG-4 & H.264
- Built-in Upscaler to Improve Standard Picture Quality
- 1 Smart Card Reader & 2 Common Interface (CI)
- VFD Display
- Silver or Black



3500 HDMI PVR

Smart Card reader • HDMI output • VFD display • USB PVR ready - recording & playing using external HDD or USB • software upgrade via USB 2.0 • Timeshift function • PIP • available in silver and black



3000 CRGI PVR

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



3500CI HDMI PVR

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



3000 CR PVR

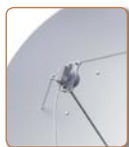
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Pembaca Yang Budiman,



Dalam TELE-satelit edisi ini, kami memperkenalkan receiver multimedia yang pertama, dan nyaris sempurna. Yaitu receiver satelit yang terintegrasi dengan antarmuka TV-internet. Sepertinya ini adalah masa depan karena pemirsa tidak memerdulikan dari mana dia mendapatkan tayangan TV-nya.

Apa yang menarik dari semua ini adalah bahwa masa depan ini hadir karena receiver satelit. Receiver tersendiri yang hanya bisa menerima TV-internet juga akan tersedia; kenyataannya, kami hanya akan menampilkan receiver tersebut di TELE-satelit edisi mendatang.

Namunsecaratumum, kecenderungan bagi receiver satelit untuk menangani sebagian besar penerimaan TV internet. Jika Anda mengambil ide penerimaan satelit dan meletakkannya di samping sementara waktu, dan melihat lebih dekat pada fungsi dasar receiver, yaitu tidak lebih daripada sebuah perangkat yang bisa menerima saluran TV. Bagi pemirsa TV "biasa", receiver hanyalah satu jalan secara ajaib untuk menayangkan semua saluran yang indah di layar TV.

"Secara ajaib" sebenarnya cukup sesuai; beberapa dekade yang lalu ketika TV baru saja dimulai, pesawat TV juga disebut sebagai "kotak ajaib".

Saat ini, TV tidak lebih daripada monitor dengan receiver satelit yang menjadi "kotak ajaib". Segera akan beralih pada receiver multimedia; receiver satelit dengan koneksi internet.

Satelit dan Internet secara perlahan akan menjadi satu; kedua teknologi ini menawarkan kemungkinan pemrograman tanpa pembatasan. Bahkan lebih penting: menawarkan keleluasaan dari sensor yang mungkin akan Anda dapatkan pada perusahaan TV-kabel, atau kemerdekaan dari pembatasan pemerintah yang terdapat pada TV terrestrial.

Masa depan media selalu tersedia dalam dunia kebebasan tanpa batas, serta penerimaan satelit dan internet merupakan bagiannya; sekarang mereka hadir bersama dalam wujud receiver multimedia.

Akan tetapi, dua tahun lalu TELE-satelit mendapat nama baru: "TELE-satelit & Broadband". Sekarang Anda menjadi tahu alasannya.

Alexander Wiese

P.S.: Stasiun radio favorit saya bulan ini, seperti pada TELE-satelit edisi yang lalu, yaitu dari Bulgaria: "Veronika" di 12,169H (THOR 359° BT) dengan lagu-lagu pop Balkan tanpa akhir.

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HD2.0

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with USB Host



- Tuner Loop-Through Output(Full band) Compliant with Cable Ready Specification (for Cable STB only)
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- Software Upgrade via USB 2.0
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- Multi Language Support(Customer Option)

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- * HD MPEG2 4:2:0 streams @ 30fps
- * SD MPEG2 4:2:0 streams @ 60fps
- Supports DiSEqC 1.0, 1.1, 1.2 and USALS protocols for dish control.



PVR
Playing recorded programmes up to 64 times speed at maximum



GAME
Featuring a double-player game „Battle Tank“



UCC
Playing media contents of YouTube



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

Experience the future of digital receiver

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

Features will be available by firmware updates

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



TOPFIELD TF 5050CI HDMI



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



Measuring Instruments

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



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

ALSO AVAILABLE:

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

DIGISAT PRO ACCU

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

With DiSEqC tester.



ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB

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

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



Satlook Micro G2



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

ALSO AVAILABLE:

Upgrade-KIT for Satlook Micro

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

Satlook Micro G2 upgrade contains:

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

Satlook NIT Color



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

TOPFIELD

TF 6500T HDMI



DVB-T Receiver

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

TF 6000 FE

Digital satellite Receiver

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

PCMCIA-Modules

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



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

Boca **NEW**

DSL 250 / DSL 250-T



Digital satellite / terrestrial Receiver

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

DSL 350 1CI



Digital satellite Receiver

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

DSL 500 PVRready



Digital satellite Receiver PVR-ready

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

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HDTV Receiver Selection

TOPFIELD

TF-7700 HD PVR



HDTV digital satellite Receiver with personal video recorder

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

TOPFIELD

TF-7700 HSCI / TF-7700 HCCI



HDTV for satellite and cable reception

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

Boca

NEW

HD 200 CI PVR



HDTV digital satellite Receiver PVR-ready

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

Motors

Aktuatoren/ Actuators

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



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

LNBS

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



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

Inverto

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

All available as:

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



Full LNB range INVERTO available from stock

Multiswitches / DiSEqC - Switches

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



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

sa SPAUN Full Range

Parts

Multifeederholder for 2, 3, or 4 LNB



Wallmounts

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



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

Remotesystems

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



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



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AVAILABLE AS:

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

Full LNB range INVACOM available from stock

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- MTI AP 82 XT2N Twin
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Unicable-Standard one cable solution. Cascadable multiswitch for up to 16 users.



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SELF SAT H10D / H10D2



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

MAXIMUM Flat-1



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

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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

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



Balcony mounting parts

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



ALSO AVAILABLE:

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

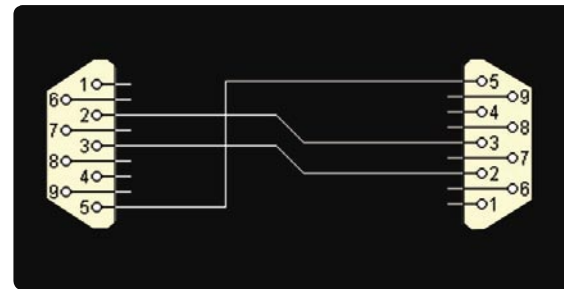
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Data Exchange Between PC and Digital Satellite Receiver

Thomas Haring

Strictly speaking, a digital receiver is nothing else than a PC in miniature. While it does, of course, prioritise different tasks and serves an entirely different purpose using different components and user interfaces, it nonetheless comes equipped with a central processing unit, various types of memory and a connection for signal output to a connected device. So what makes more sense than establishing a digital connection between a satellite receiver and a PC for exchanging data, putting out signals on additional devices and controlling the receiver via remote access? To achieve just this, three connection types have been established in the course of time, and this report will introduce you to all of them.



■ Pin configuration of a 3-strand null modem cable to the PC

as no surprise that the data transfer rate of serial interfaces is very low and does hardly exceed 0.8 Mb/s.

So as far as speed is concerned, this interface is a thing of the past, even though most PCs boast at least one serial interface even up to this day. Receiver manufacturers had joined this bandwagon and began to equip their receivers with a serial interface as well.

Another reason for this development was that the chipsets available at the time when digital satellite television was introduced were hardly capable of supporting other connection types. And if we take into account that PVRs at that time were in experimental stages only, to say the least, and that data exchange only involved channel lists and software, then the transfer speed to be reached with a serial connection was sufficient at the time.

So-called null modem cables are required for a serial connection, and they consist of either 3 or 9 strands. The 3-strand type is not capable of performing handshakes, while the 9-strand type supports this.

A handshake in this case means that hardware controls the data flow and thus makes sure data can flow uninterrupted. For simply reading and writing channel lists or for updating the receiver's software a 3-strand null modem cable will do, as the software will emulate flow control in these applications.

Null modem cables are available in PC stores or can even be DIY-ed using rather simple tools (see plugging diagram). Please do make sure, however, that the terminal plug always has nine pins, even if only three of them are wired. Any major electronics shop should have



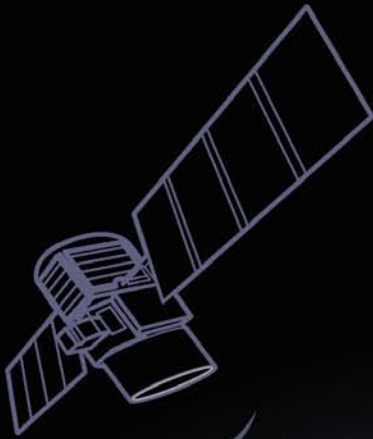
■ Null modem cable for connecting a receiver to the PC



■ Serial interface of a digital receiver

Serial Interface

Right from the beginning of personal computers – and that is to say a long time before the advent of the digital satellite age – PCs started to feature serial interfaces which allowed users to connect and control peripherals such as a computer mouse, or to establish a connection to the outside world with the help of a modem. Given the fact that this was introduced many years ago it comes



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TRU SAT

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Polarization

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Cross Polarization
Beam width at -3dB
LNB LO Frequency
LNB Noise Figure
LNB Conversion Gain
LNB Output

TRUSAT400

43cm X 43cm
10.7-12.75 Ghz
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Dual Circular
34 dBi(at 12.4 Ghz)
<-30dB
4.5 degree
All LO
0.5 dB(Max)
60~65 dB
1 output(standard)/
2/4 outputs(optional)

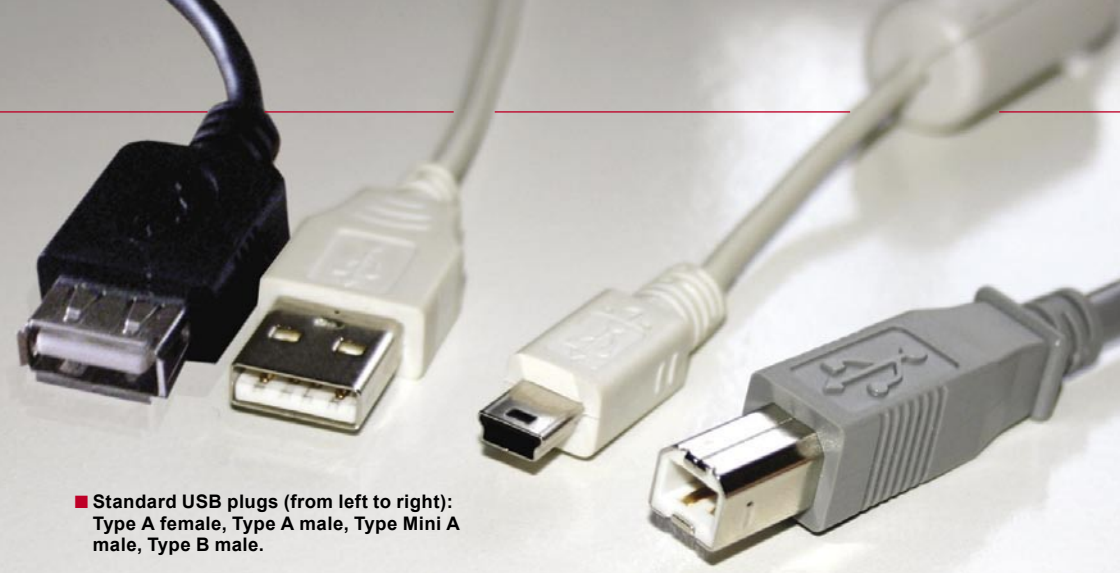
TRUSAT600

63cm X 63cm
10.7-12.75 Ghz
Dual Linear or
Dual Circular
37 dBi(at 12.2 Ghz)
<-30dB
2.7 degree
Same as left
Same as left
Same as left
Same as left

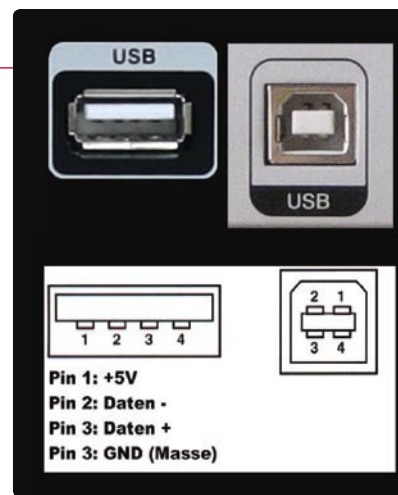


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■ Standard USB plugs (from left to right): Type A female, Type A male, Type Mini A male, Type B male.



■ PIN configuration of USB plug

the necessary cables and plugs in their range.

USB Interface

A universal serial bus interface is a bit-serial bus, which means that individual bits of a data packet are transmitted one after the other. Data is transmitted symmetrically via two twisted wires, one of which transmits the data signal and the other the corresponding inverted signal. The signal receiver creates the differential voltage of both signals, which means that the voltage level difference between the 0 and 1 levels is twice the usual value so that outside interference is largely eliminated. This in turn improves transmission reliability, suppresses common mode interference and at the same time increases electromagnetic compatibility. Two additional wires provide power to connected devices.

A USB connection can achieve significantly higher transfer rates than a serial connection. USB 1.0 and USB 1.1 are rated at a maximum of 12 Mbit/s, and USB 2.0 supports up to 480 Mbit/s. While this figure looks impressive on paper, we do have to take into account that the limited processing capability of most receivers means that this transfer rate will not be used to the fullest.

Yet, even if 480 Mbit/s are out of reach, USB 2.0 nonetheless was the first con-

nection that allowed transferring large amounts of data in a reasonably short period of time.

There is a difference between USB host connections and USB client connections. USB host means that the receiver becomes the master device which can access data on an external hard disk or a memory card of a digital camera, for example. USB client, on the other hand, means that connection is established between a PC and the digital receiver and the receiver's internal hard disk pops up on the PC as a removable storage medium. This in turn allows exchanging, moving or copying data between both devices in an easy way.

You can easily spot the difference between these two types by looking at the USB plugs. A USB host plug (type A) is flat, while a USB client plug (type B) is rectangular. In most cases, devices with a built-in hard disk feature a client connection so that data can easily be transferred to the PC, while receivers without hard disk generally sport a host connection so that the receiver is able to access external hard disks.

As far as cable lengths are concerned, a USB 2.0 connection can reach up to five metres without requiring signal amplification. If your individual situation requires still longer cables you have to

look for dedicated extension cables, or you may want to connect several standard 5-metre USB cables by means of active USB hubs. These hubs amplify the transmitted signal and at the same time allow connecting several additional USB devices to the PC.

Please note, however, that only PCs are capable of addressing more than one external USB hard disk at the same time. Satellite receivers are not designed to support this.

These days a USB connection has become the most popular data exchange set-up in the digital satellite field both for connecting a PVR receiver to the PC as well as for giving users the option of using external storage media instead of or in addition to integrated hard disks. This allows working with several different hard disks (not at the same time, though!) so that whenever a hard disk is filled to the brim with recordings you can simply connect another disk rather than having to delete data.

Add to that the fact that modern 2.5-inch external disks do not require a separate power supply and are hardly bigger than a pack of cigarettes and it becomes clear why USB storage media have gained so much popularity in recent times. So next time you're out and about camping, simply bring along your movie



■ USB host interface of the TF7700HSCI for connecting external storage media

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archive and you're all set to save any rainy day.

Network Connection

By far the most versatile connection type between a PC and a digital satellite receiver is an Ethernet connection. What has been the norm in the PC world virtually for decades has also entered the digital PVR realm some years back.

An Ethernet connection can either be wired or wireless and can bridge large distances. While serial and USB connections are limited to a few metres, Ethernet networks can easily extend over hundreds of metres. On the other hand, the significant advantages of a network connection come at a price – in other words: a considerable amount of planning and configuration is required to make an Ethernet connection work.

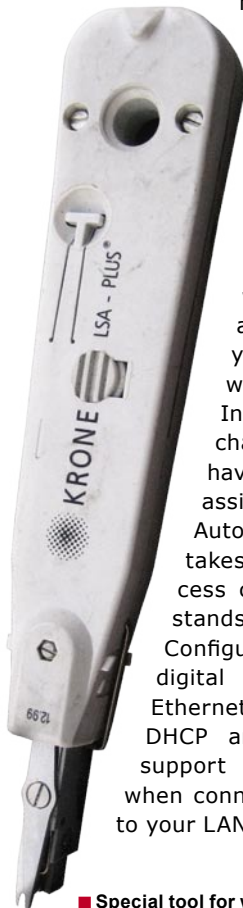
So-called twisted pair cables are required for Ethernet networks, with eight individual strands being twisted into four pairs, hence the name. Using pairs of two strands each minimises outside interference. This type of cable can easily be laid out by everybody, fitted with RJ45 plugs or connected from one plug socket to the next. Using plug sockets may turn out to be a wise decision, particularly if you need to cover larger distances, as the cables can be hidden in cable conduits and the devices that are connected to the network only require short cables from the device's Ethernet interface to the wall socket, which makes for a very neat set-up. Special tools are needed to attach an RJ45 plug to a twisted pair cable and to wire a socket appropriately (see picture).

Your local PC or electronics store should be able to provide you with such a tool. Thanks to colour-coding, correct wiring doesn't require a degree in electronics, and if you're going about it carefully there is hardly any risk that something might go wrong.

In contrast to USB or serial connections, which invariably require a direct point-to-point connection between two

devices, an Ethernet network allows several devices access all other devices in the network at the same time. For digital satellite receivers this implies that you can actually access your digital PVR in the living room while sitting in front of your PC in the study, while at the very same time your kid's PC is also connected to the satellite receiver. There's no way a USB or serial connection would ever be able to provide these network capabilities.

With many different devices being connected to a single network it is obviously necessary to be able to differentiate between each client. To this end, each device in the network is allocated a dedicated designation, the so-called IP address. An IP address always consists of four number blocks, with each block being a number from 0 to 255. This way, each device has a unique identification, and in order to become a fully functional network client, your digital satellite receiver also has to be assigned an individual IP address. If you are using a DSL modem or a router in your network, IP addresses will be assigned automatically and you don't have to worry about a thing. In all other cases, chances are you'll have to manually assign an IP address. Automatic assignment takes place via a process called DHCP, which stands for Dynamic Host Configuration Protocol. All digital receivers with an Ethernet interface support DHCP and therefore fully support genuine Plug&Play when connecting the receiver to your LAN at home.



■ Special tool for wiring plug sockets

Let's look at manual IP address assignment as well, for a moment. You need to bear in mind that IP addresses are used both in your local network at home as well as on the Internet, which is the reason why certain blocks of IP addresses are reserved for different purposes.

Generally, the address range from 192.168.0.0 to 192.168.255.255 is used for private home networks, with most DSL modems and routers already being preset to use this range. For your receiver you may then use 192.168.0.1 and for the PC 192.168.0.2, for example.

Some of you may be wondering now how several devices can be connected to each other, even though each device only features a single Ethernet interface. Well, that's when routers or DSL modems with integrated router come into play. They are equipped with 4, 8, 16 or even more connection interfaces for different devices and distribute the signal to correct addressee.

Next to a wired Ethernet connection, recent times have also seen more and more wireless (so-called WLAN) networks being set-up at home. South Korean manufacturer Topfield was one of the first companies in the satellite receiver industry to make some of their products WLAN ready. The single biggest advantage of using WLAN is the fact that no cabling whatsoever is required between satellite receiver and PC.

The single biggest drawback is the fact that wireless signals can travel only so far and in buildings made of reinforced concrete, for example, signals have a hard time penetrating walls. Brick or wooden buildings, on the other hand, are very WLAN friendly and in many cases allow using a WLAN network even across several floors.

In a WLAN network, the assignment of IP addresses happens the same way as in a wired network, with the added step that in most cases an access key is required to make sure the wireless net-



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

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- Twice the satellite setting capacity with 64 selections available
- Lock indication within 100ms of acquiring the satellite
- Custom program files available on request (e.g. VSAT)
- L-Band, C-Band, Ku-Band and Ka-Band capability
- Quality indicator (Pre BER) displayed alongside RF Level (dBuV)
- Pre and Post BER can be displayed with their actual values (setup option)
- Toggle to display Post BER and Carrier to Noise (dB)

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

HDSM USB PLUS (additional features)

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

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

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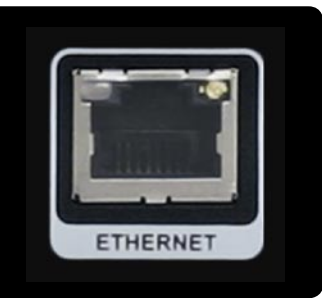
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■ Network interface of a digital receiver

work is protected from unwanted guests.

As you can see, a network connection offers the most versatile features and options when it comes to hooking up satellite receiver and PC.

We started out by saying that modern satellite receivers basically are no-frills PCs, and this is also why services and applications we have come to know and appreciate from the PC and Internet worlds may work just as well with your digital satellite receiver – provided that the manufacturer decided to support these. For instance, from a technical point of view it would be perfectly possible to access your receiver at home via FTP (File Transfer Protocol) from the PC or the Internet in order to exchange data, or to use a web server on any internet browser to create a timer entry on the PVR, check its status or even switch channels – no matter whether you're in the next room or on the other side of the world.

In addition, an Ethernet connection provides sufficient bandwidth for carrying multimedia contents in real-time so that it is possible to watch the channel that is set on the receiver in the living room also on the PC monitor in the study. For the first time, this also allows contents that cannot be displayed on a standard TV (such as MPEG 4:2:2 transmissions, for example) to be sent to a PC with corresponding software and to be watched on the PC monitor without any loss of quality.

One thing that deserves special emphasis in any network configuration is security. In a wired setting there is virtually zero threat, as long as we're dealing with a closed network that has no access to the Internet or to external devices, because only your own devices in your own house or apartment will be able to access the network. As soon as there is access to the Internet, any person in the world with an Internet connection will be able to gain access to your devices – at least in theory and with no protection in place. Naturally, an intruder must know your IP address which you are using to access the Internet, but even this can be found out easily with corresponding software – some even free of charge – which the more dubious Internet users are usually quick to discover.



■ Twisted pair cable for Ethernet connection

To protect your privacy, any satellite receiver with network capability has mechanisms in place to protect access with a user name and password. Make sure you actually use these mechanisms and please also make sure your password meets certain security criteria. Some passwords can be hacked in minutes by criminals who use tools to try out different combinations of characters and numbers or who even use dictionaries for trying out an endless number of different words. So there's really no point in choosing "receiver" or "1234" as your personal password. The best bet is a variation of upper case and lower case characters, sprinkled with special characters and numbers. A ten-digit password offers millions of combinations that cannot easily be discovered, not even with state-of-the-art software. It's your receiver and your data, so you'd better make sure it stays that way as well.

To help you memorise your password we recommend basing it on a feely selected word, such as "TeleSatellite" and then add to it a number or date you can easily remember, such as your date of birth, for example. Add to that one or two special characters and you'll arrive at a password that will give a headache to anyone trying to hack it. Your password could be TeleSatellite(150370) or – to make it even more complex – T(e1|5e0S3a7t0e)llite.

To memorise this particular password it's enough to remember the initial word as well as the position of the birth date and of the special characters. In addition, you should always activate the firewall setting of your DSL modem or router so that there is a check on external access to your network. After all, there is no such thing as too much security.

For WLAN networks there is also the issue of the wireless signal potentially travelling way beyond the confinement of your house or apartment, which

means the signal can be picked up by neighbours, passing cars or pedestrians close to your place. This makes it all the more important to encrypt the transmission between PC and receiver so that no unauthorised person gets a chance of intercepting your personal data traffic.

All WLAN capable satellite receivers we know of support at least the WEP (Wired Equivalent Privacy) protocol that can be used to encrypt the entire communications process. So for a digital receiver



■ Wall socket with clearly visible colour-coded markings

even being able to establish a connection to the WLAN base station it is mandatory to define a password at the station (using either text or hexadecimal code) and also enter that very same password on the receiver or any other host wanting to use the network. These days, however, WEP has significant loopholes and can be hacked quite easily if one uses the right tools, so we would urge receiver manufacturers to also implement the more recent WPA (WiFi Protected Access) encryption in their WLAN receiver models. Market leader Topfield has pressed ahead and added WPA protection in a recent software update.

As with other connection methods, the transfer rates in Ethernet networks also largely depend on the receiver's processing power, so in a real world scenario you will soon find out that the theoretical maximum rate of 12.5 Mb/s is hardly ever reached.

No matter which connection type you're currently using, the future will have more innovations in store, both for USB and Ethernet set-ups. Transfer rates will no doubt increase, and networks will be able to extend across ever increasing distances. USB 3.0 is virtually around the corner and will definitely also be used for digital satellite receivers. So let's keep our eyes open and let's look forward to what manufacturers will offer next!



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Topfield TMS SRP-2100

Kualitas Tinggi



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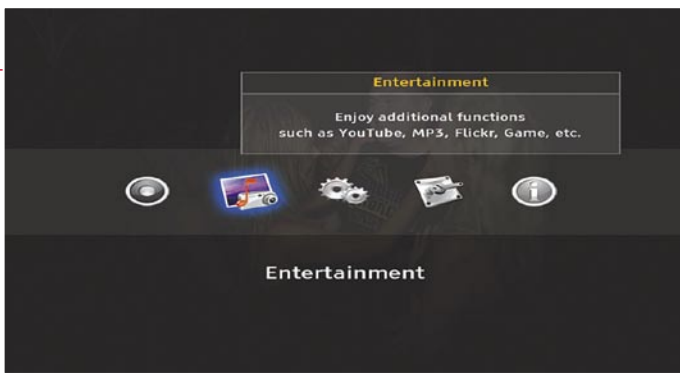
Setiap receiver baru yang kita beli biasanya memiliki nama merk di panel depan. Kenyataannya, pabrikan tidak mengembangkan dan memproduksi sendiri semua komponen, namun mendapatkan bagian-bagian komponen dari beberapa penyalur dan selanjutnya merakit receiver. Salah satu komponen yang menentukan adalah chipset utama, karena peranti ini menentukan seberapa bagus data audio dan video yang datang diproses. Receiver yang berkualitas baik harus memiliki fitur dengan chipset yang berkualitas bagus untuk menjamin suara dan gambar yang cemerlang, sejumlah besar aplikasi dan kestabilan operasi.



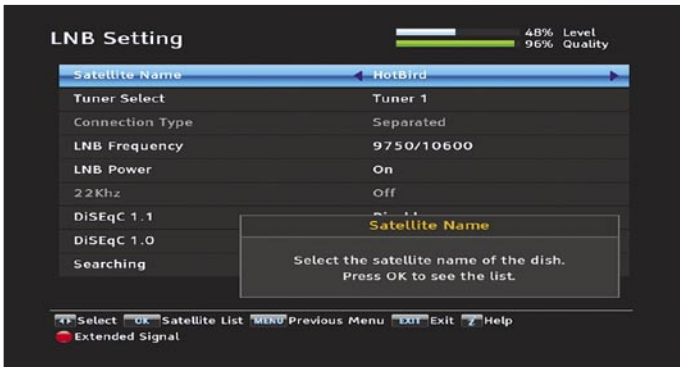
INNOVATION
TELE SATELLITE
AWARD & BROADBAND
 06-07/2009

TOPFIELD TMS SRP-2100
 Receiver untuk masa depan
 dengan kombinasi televisi satelit
 dan internet dalam satu perangkat

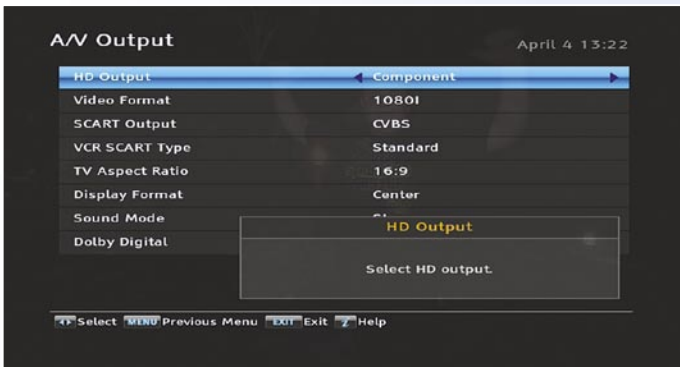
Energy Efficiency Rating
eco friendly
 0.56
 power factor
 tested by TELE-satellite



Menu Utama |



Pengaturan LNB |



Pilihan keluaran Video |



Pencarian SCPC |



Penerimaan SCPC |

Sekitar setahun yang lalu kami menjadi saksi peralihan skala besar dari SDTV ke HDTV menggunakan DVB-S2/H.264. Hal ini tentu saja memerlukan chipset yang benar-benar baru untuk memastikan sinyal definisi-tinggi dapat diproses di atas yang ditawarkan oleh definisi standar.

Kita semua tahu bahwa teknologi baru sering membawa masalah baru yang memerlukan beberapa panel lama untuk memperbaikinya. Chipset DVB-S2/H.264 yang pertama juga tidak berbeda dan lebih kurang sebagian pabrikan receiver HDTV mengalami masalah teething. Semakin banyak fitur yang dicoba pada receiver HD yang inovatif, semakin mudah mengalami masalah.

Sementara ini, bagaimanapun, pabrikan chip memiliki waktu untuk melihat masalah dan menemukan cara untuk menyelesaikannya, sehingga Topfield TMS SRP-2100 merupakan salah satu receiver pertama yang menggunakan chipset DVB-S2/H.264 terbaru.

Topfield dari Korea Selatan menyebut diri sendiri "Pemimpin Multimedia Rumah", dan merupakan perusahaan yang benar-benar ingin membuktikan dengan receiver barunya. Beberapa bulan yang lalu, tim insinyur Topfield mulai merancang receiver HD generasi terbaru.

Apa yang benar-benar jelas pada saat permulaan adalah bahwa Internet akan memegang peranan penting selain penerimaan TV satelit konvensional. Untuk itu, tanpa disengaja TELE-satelit memutuskan untuk menambahkan "broadband" pada nama majalah, karena kami juga mengharapkan bahwa di masa mendatang tidak akan ada perbedaan bagi konsumen dari mana datangnya siaran TV dan radio. Satelit, kabel, terestrial dan internet broadband semuanya akan sama sebagai sumber multimedia dan suatu saat kita tidak akan memikirkan dari mana datangnya siaran TV.

Insinyur di Topfield juga mengantisipasi dalam

receiver TMS baru dan memastikan tidak hanya datang dari dua tuner DVB-S2, tetapi juga dengan antarmuka jaringan sebagai salah satu fitur utamanya.

Topfield memutuskan bahwa teknologi baru pada bagian dalamnya juga memerlukan penampilan baru di bagian luarnya. Yang hilang selamanya adalah tombol-tombol di panel depan - di masa mendatang mengandalkan panel kendali dengan sistem sentuhan.

TMS ini (yang secara tidak disengaja, berarti Total Media Solutions) berukuran 3 cm lebih tinggi dari receiver biasa, namun dengan desain panel depan yang menarik sehingga tidak membuatnya terlihat tebal. Akhirnya, terdapat satu tombol yang terletak di bagian atas tampilan VFD: yaitu tombol untuk menyalakan dan mematikan receiver.

Seluruh segmen kendali lainnya terletak di dekatnya dalam bentuk lingkaran yang sempurna, dan diaktifkan dengan hanya menekan panel depan, yang merupakan konsep yang sangat cerdas.

Ketika receiver dinyalakan untuk pertama kalinya, segmen ini dikelilingi oleh cincin LED berwarna biru, yang kami rasakan agak terlalu terang dalam lingkungan yang gelap. Akan lebih baik jika LED tersebut bisa diredupkan atau dipadamkan.

Pintu kecil di sebelah kanan panel depan menyembunyikan dua rongga CI yang bisa menangani CAM standar untuk penerimaan TV-berbayar (seperti Viaccess, Cryptoworks, Nagravision, Alphacrypt dsb.), serta dua terminal USB untuk menghubungkan harddisk eksternal atau penyimpanan media lainnya seperti kamera digital dan sebagainya.

Panel belakang juga terbukti lengkap, hadir dengan colokan wajib HDMI, dua konektor scart, enam colokan RCA untuk YUV, CVBS dan audio stereo, terminal USB, rongga E-SATA, antarmuka jaringan, keluaran audio digital dan tentu saja dua tuner DVB-S2 lengkap dengan keluaran loop-through. Untuk lebih melebarkan senyum kita,

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Topfield juga menambahkan saklar catudaya di panel belakang.

Berbeda dengan sebagian besar receiver Topfield yang ada sebelumnya, TMS yang baru ini hadir dengan kipas kecil untuk menyediakan pendinginan bagi harddisk dan unit catudaya. Pada receiver contoh yang kami terima untuk pengujian, kipasnya menghasilkan suara yang agak berisik. Topfield telah meyakinkan kami, bahwa kipas yang tidak berisik dan unit catudaya yang lebih baik akan tersedia untuk seri komersil.

Kendali jarak jauh yang disertakan pada TMS mudah digenggam dan dengan desain yang mudah digunakan. Seluruh tombol diberi label dan memberikan cukup repon ketika ditekan.

Jika hanya kualitas kendali jarak jauh TMS akan setara dengan TF7700HDPVR maka kami akan merasa di surga. Karenanya, sayang sekali, kami harus mengatakan bahwa kendali jarak jauh tersebut cukup bagus digunakan, tidak setara dengan desain kelas atas dan merasakan receiver yang akan dikendalikan.

Dengan kata lain, kami menyukai kenyataan bahwa Anda juga bisa mengendalikan TV, pemutar DVD dan amplifier dengan kendali jarak jauh yang sama. Buku pedoman menyediakan daftarkode untuk berbagai pabrikan sehingga kendali jarak jauh itu bisa dikonfigurasi untuk bekerja dengan perangkat Anda yang ada di ruang keluarga. Ketika kami coba, fitur ini bekerja tanpa masalah.

Tambahannya, Topfield memutuskan untuk menyertakan keyboard nirkabel pada TMS, meskipun saat ini hanya bisa digunakan untuk video game Battle Tank. Rencana sedang disusun, yaitu, menambahkan penjelajah Internet pada peranti lunak receiver di masa mendatang, sehingga keyboard ini akan sangat bermanfaat. Jika keyboard nirkabel digunakan, maka harus memasang dongle kecil ke salah satu terminal USB sehingga sinyal bisa dipancarkan dari keyboard ke receiver. Daftar fitur yang hebat ini disempurnakan dengan disertakannya kabel HDMI dan buku pedoman yang sangat berguna – sesuatu yang kita harapkan dan hargai dari

Topfield pada saat lalu. Buku ini menyediakan informasi yang rinci tentang semua fitur receiver ini, dengan tata letak yang mantap dan menyertakan ilustrasi yang diperlukan.

Penggunaan Sehari-hari

Ketika Topfield memberitahu kami beberapa minggu yang lalu tentang TMS yang baru akan dikirim kepada kami untuk diuji, kami tidak sabar menunggunya. Ketika hari itu benar-benar tiba, kami bahkan lebih cepat daripada biasanya memasang receiver tersebut ke sistem penerimaan kami dan menghubungkannya ke TV plasma di lab uji kami.

Pada saat menyalakan receiver untuk pertama kalinya, akan diminta untuk mengisi bahasa menu OSD, dengan pilihan yang tersedia: bahasa Inggris, Perancis, Jerman, Belanda, Italia dan Spanyol.

Meskipun receiver ini hadir dengan daftar saluran yang lengkap, untuk pasaran di negara-negara berbahasa Jerman, tahap selanjutnya adalah proses pencarian saluran.

TMS hadir dengan daftar terkini 150 posisi satelit Eropa dan Asia untuk siaran KU dan C band. Database transponder cukup terkini.

Dalam pengaturan antena, TMS cukup gembira dengan segala sesuatu yang bisa dihubungkan. Seluruh protokol DiSEqC (1.0, 1.1, 1.2 dan 1.3) didukung yang berarti bahwa antena tunggal yang sederhana adalah sebagai antena multi-fokus hingga 16 LNB atau antena dengan motor DiSEqC. Sejumlah LOF yang umum digunakan dan diprogram jika Anda memiliki LNB yang tidak lazim, Anda bisa mengatur LOF yang diperlukan secara manual.

Untuk bisa menggunakan tuner kembar PVR, kedua tuner tersebut harus dihubungkan dengan antena dari kabel yang terpisah, sehingga dua perekaman (bahkan dari dua satelit berbeda) dapat dibuat simultan ketika sedang menjalankan even ketiga.

Dalam kasus hanya tersedia satu jalur kabel, keluaran loop-through dari tuner 1 bisa dihubungkan ke masukan tuner 2, yang berarti bahwa tidak seluruh saluran tersedia di tuner 2.



Pencarian saluran dilaksanakan dengan segera dan hanya memerlukan delapan menit untuk HOTBIRD 13° BT dengan lebih dari 100 transponder. Kita mengharapkan tidak ada yang kurang dari Topfield. Biasanya, pencarian bisa dibatasi pada FTA atau hanya saluran yang diacak, dan saluran yang tidak diprogram pada daftar transponder dapat dengan mudah ditemukan dengan menggunakan mode pencarian jaringan.

Bagi Anda yang profesional, Topfield bahkan memikirkan implementasi masukan PID secara manual. Satu-satunya fitur yang diinginkan DXer sejati adalah blind scan, yang tidak tersedia di TMS ini.

Tuner pada TMS ini memiliki kejutan bagi kami: Tidak hanya mengunci sinyal SCPC dari TURKSAT 42° BT tanpa kesulitan, tetapi juga memberikan kesan ketika kami mencoba menerima sinyal dari transponder yang hanya datang dari sinyal yang sangat lemah di lokasi kami (seperti salah satu dari NILESAT 7° BB atau ASTRA2D 28,2° BT, misalnya). Ketika kami mengulangi pengujian

pada kondisi lab, kualitas penerimaan tuner yang handal juga dikonfirmasi. Nilai C/N sedikit lebih besar dari 4 dB sudah cukup untuk tayangan yang stabil dan bebas gangguan di layar TV plasma kami.

Cerita lama yang sama ketika receiver satelit baru tiba di rumah: ratusan bahkan ribuan saluran ditemukan dari pencarian saluran, dan kemudian tugas yang membosankan dimulai untuk menyusunnya. Dalam kasus kami, lebih dari 2000 saluran TV dan stasiun radio yang tak terhitung memenuhi daftar saluran, namun Topfield memiliki reputasi dalam menangani pengaturan daftar saluran dan tidak terkecuali pada TMS ini.

Memori salurannya bisa menampung hingga 7000 saluran TV dan 3000 stasiun radio serta bisa diedit sesuai keinginan Anda. Selain struktur otomatis, juga dimungkinkan untuk memindahkan, menghapus, ganti nama secara manual, atau masing-masing saluran bisa dikunci dengan PIN.

Anda bisa memindahkan siaran yang sering Anda

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tonton ke dalam daftar favorit, yang juga bisa dibagi lagi menjadi 30 kategori. Dengan cara ini Anda bisa membuat daftar pribadi berdasarkan jenis tontonan, membuat daftar HDTV atau masing-masing anggota keluarga bisa menggunakan daftar tersendiri.

Sebelum keluar dari Menu Utama – yang tanpa disengaja, dengan leluasa dapat dibagi ke dalam lima kategori – perlu melihat pengaturan sistem dan mengubah beberapa parameter, jika perlu. Seperti pada receiver satelit digital lainnya, TMS bisa diatur secara otomatis untuk mensinkronkan waktu setempat melalui satelit. Apa yang terlihat sebagai ide cemerlang juga memiliki kelemahannya,

karena beberapa saluran memancarkan informasi waktu yang salah dan menyebabkan kesalahan waktu pada receiver. Untuk mengatasi masalah ini, TMS mengizinkan pembatasan fitur ini terhadap transponder atau saluran tertentu, bahkan pada saluran yang diacak. Ini adalah fitur yang sangat hebat yang kami tunggu sejak lama.

Via HDMI, TMS menyediakan 576i, 576p, 720p, atau 1080i, atau Anda bisa menggunakan mode otomatis yang bisa memilih resolusi yang sesuai berdasarkan sinyal yang diterima. Kami menyukai tombol Format Video pada kendali jarak jauh yang bisa mengubah resolusi secara cepat.

Konektor scart menyalurkan



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Pencarian saluran secara manual



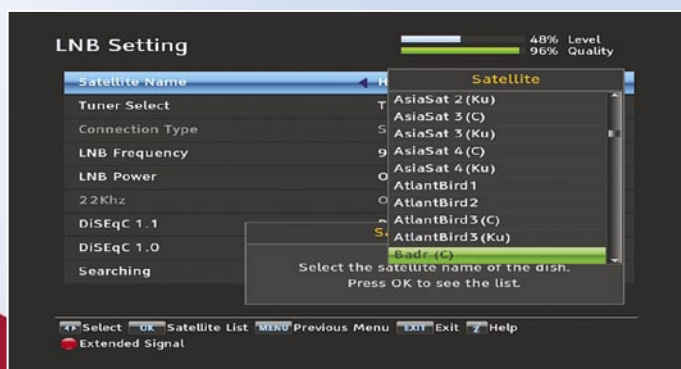
EPG mode 1



Informasi EPG yang diperluas



Berbagai Pengaturan OSD



Tersedia 150 posisi satelit yang telah terprogram

sinyal CVBS, S-Video atau RGB, dan pengguna bisa menentukan bagaimana siaran 4:3 akan ditayangkan pada layar 16:9 (Pan & Scan atau format asli dengan pita hitam di kedua sisinya). Meskipun jarang akan digunakan pada masa sekarang ini, juga dimungkinkan untuk mengatur sinyal keluaran pada 4:3 untuk pesawat TV lama.

Seperti pada namanya, pengaturan perekaman dan pemutaran memungkinkan definisi sifat receiver selama perekaman dan pemutaran. Buffer time shift telah ditingkatkan hingga 300 menit, di atas 120 menit yang tersedia di model sebelumnya. Sebagai tambahan Anda bisa membuat receiver menambahkan beberapa menit sebelum dan sesudah waktu yang diatur untuk merekam untuk memastikan Anda tidak kehilangan saluran yang tidak dimulai sesuai jadwal.

Jika media penyimpanan eksternal dihubungkan melalui terminal USB atau E-SATA maka dapat dinominasikan sebagai media penyimpan asal. Maka jika Anda ingin menggunakan harddisk USB daripada hard disk internal 500 GB, Anda bisa dengan mudah mengatur receiver untuk mengalamatkan ke hard disk eksternal ini.

Salah satu kelebihan lainnya adalah receiver ini bisa melanjutkan memutar hasil rekaman di posisi dihentikan sebelumnya. Hingga kini TAP terpisah (Plugin buatan Topfield) harus diperlukan untuk menggunakan fitur ini. Juga, berbagai kecepatan untuk maju dan mundur tersedia dan pengguna bisa menentukan bagaimana receiver menangani rekaman yang diacak. Apakah rekaman ini dibuka-acak secara langsung dengan membuat salinan atau pengguna mengaktifkan prosedur ini secara manual.

Layar tampilan depan pada TMS dapat dikelola dengan beberapa cara, misalnya menggunakan mode tampilan yang berbeda atau mengatur kecerahan ketika standby dan on. Kami akan lebih gembira

jika hal ini bisa juga diterapkan pada lingkaran LED berwarna biru di panel depan.

Jika Anda bermaksud untuk menghubungkan receiver ke dunia luar, Topfield TMS tidak saja memiliki terminal USB dan E-SATA, tetapi juga antarmuka jaringan yang bisa diatur dalam menu tersendiri. Yang memungkinkan pengguna memberi alamat IP secara manual atau otomatis oleh server DHCP yang terintegrasi dalam jaringan. Dalam hal tersedia pemberian IP otomatis maka TMS akan menerima seluruh parameter yang diperlukan secara otomatis dan segera siap digunakan.

Server web dan FTP juga terintegrasi dalam receiver dan keduanya masing-masing bisa diaktifkan atau dinon-aktifkan. Sebenarnya, TMS menawarkan perlindungan akses menggunakan ID pengguna dan password.

Setelah konfigurasi dasar telah diselesaikan, yang perlu Anda lakukan hanyalah menekan tombol Keluar pada kendali jarak jauh untuk memerintahkan receiver keluar dari menu utama. Maka akan segera beralih ke saluran yang pertama tersedia dalam daftar dan menyisipkan info bar kecil di bawah layar. Yang berisi informasi tayangan yang sedang ditonton, batangan progres yang menunjukkan sudah berapa lama acara ini ditayangkan, serta rincian tentang tuner yang aktif, satelit dan transponder.

Ikantambahan menyediakan informasi tentang layanan yang tersedia seperti teletexts, terjemahan, jalur audio tambahan, atau apakah Anda sedang menonton siaran yang diacak atau saluran NVOD (near video on demand). Semuanya ini disertai dua batangan yang menginformasikan kekuatan sinyal dan kualitas sinyal. Waspada dengan nilai ini, bagaimanapun, karena kami menemukan bahwa angka ini tidak 100% akurat, khususnya untuk sinyal yang lemah.

Jika Anda menekan tombol Info maka receiver akan menampilkan informasi tambahan pada acara

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yang sedang ditonton, jika disediakan oleh saluran tersebut.

EPG akan muncul jika Anda menekan tombol Guide dan Topfield sekali lagi telah mengembangkan tata letak yang sangat mudah digunakan. Informasi untuk tujuh hari ke depan bisa diakses, jika informasi ini dipancarkan oleh saluran tersebut.

Tersedia dua mode tampilan: yang pertama menampilkan kotak dengan tujuh saluran untuk periode waktu sekitar tiga jam, mode yang kedua juga dengan tata letak kotak, namun menampilkan lima saluran dengan periode waktu sekitar lima jam.

Ketika Anda menggunakan EPG, tombol Info akan membawa informasi detail dari acara yang dipilih, yang bisa ditandai untuk membuat masukan pengatur waktu untuk perekaman atau pengingat.

Tidak akan lebih mudah untuk membuat pengatur waktu – karena selalu terdapat pilihan untuk membuat masukan secara manual serta jika Anda tidak ingin dibatasi oleh jadwal mulai dan akhir.

Masukan yang telah diatur bisa diulangi perhari, perminggu, setiap hari kerja atau akhir pekan, sehingga Anda benar-benar mendapatkan pilihan perekaman secara otomatis.

Dalam pengujian kami, receiver tersebut juga mampu mengidentifikasi adanya konflik pengatur waktu yang mencakup tinduhan perekaman, walaupun hanya bentrok beberapa menit.

Dalam tradisi Topfield yang bagus, tombol OK akan memanggil daftar saluran, dengan desain yang mantap dan menawarkan sejumlah pilihan pengurutan. Jika diinginkan, receiver juga bisa menampilkan detail provider untuk setiap saluran, dan sentuhan pada tombol itu akan membawa daftar favorit. Kami menyukai fitur pencarian saluran yang menampilkan seluruh saluran yang namanya dimulai dengan karakter yang diberikan (tekan satu kali: seluruh saluran yang dimulai dengan A; tekan dua kali: seluruh saluran yang dimulai dengan B; dan seterusnya).

Dengan ribuan saluran yang potensial dalam daftar tersebut, fitur ini akan membawa dengan sangat segera apa yang Anda cari.

Perpindahan saluran pada TMS sangat menyenangkan, tidak lebih dari satu detik untuk berpindah antar saluran SDTV, dan sekitar dua detik untuk saluran HDTV muncul di TV.

Ketika menguji receiver kami sering berpindah-pindah saluran dalam daftar, dan di TMS tidak terjadi kegagalan pada video atau audio. Secara umum, kami sangat menyukai kualitas video dan audio yang

disediakan oleh receiver ini, yang sangat bagus untuk sinyal SD dan HD.

Dengan adanya hard disk 500 GB yang terpasang di dalam receiver, maka Anda akan segera mengoleksi banyak hasil rekaman. Untuk membantu Anda memantau hasil rekaman, Anda bisa membuat folder dengan bebas, dan bisa memindahkan hasil rekaman ke dalam folder ini. Setiap hasil rekaman hadir dengan gambar tinjauan dan informasi detail tentang lama dan ukuran rekaman. Dalam hal Anda mengkhawatirkannya: hard disk 500 GB cukup memadai untuk 250 jam tayangan.

Sistem file yang digunakan oleh Topfield adalah JFS, meskipun sejumlah format lainnya (seperti FAT32, NTFS atau EXT2/3, misalnya) juga bisa dibaca. Hanya JFS dan EXT2/3 yang bisa ditulis, akan tetapi, yang perlu diingat ketika Anda mencoba meng-edit hasil rekaman di komputer.

Kesan keseluruhan yang sempurna dari TMS ini dilengkapi dengan pemilihan track audio yang tanpa masalah, teks terjemahan yang sempurna, dukungan NVOD dan dekoder teleteks terintegrasi. Jika Anda termasuk orang yang tidak sabar dan menginginkan untuk menonton saluran lain ketika jeda iklan, maka Anda akan menyukai PiP (gambar dalam gambar), yang juga bekerja pada dua saluran HD!

Kami tidak lupa untuk mengungkapkan satu fitur yang disebut automatic system restore yang bekerja seperti ini: dengan menekan satu tombol Anda bisa menyimpan status receiver saat ini, yang bisa dikembalikan ke posisi ini suatu saat nanti, jika sesuatu terjadi pada receiver Anda. File restore bisa disimpan baik di memori internal maupun di media penyimpan eksternal, sehingga Anda selalu di sisi yang aman.

Topfield tidak pernah berhenti memperbaiki produknya, dan inilah alasannya peranti lunak baru dibuat tersedia untuk diunduh setiap saat. Pembaruan bisa

didapat via satelit, jaringan atau via memori USB.

Antarmuka Jaringan

Seperti yang disebutkan di atas, Topfield percaya bahwa masa depan akan terlihat penggabungan berbagai penerimaan yang berbeda. Tayangan TV dan radio masih disediakan via satelit, kabel, atau siaran terestrial, tetapi juga akan dilengkapi oleh Internet.

Inilah sebabnya antarmuka jaringan pada TMS mendapat perhatian khusus sejak awal. Tidak saja memungkinkan pengendalian receiver via Internet atau jaringan lokal dengan adanya web server yang terintegrasi, Anda juga bisa mengakses harddisk receiver dari mana saja dengan bantuan FTP.

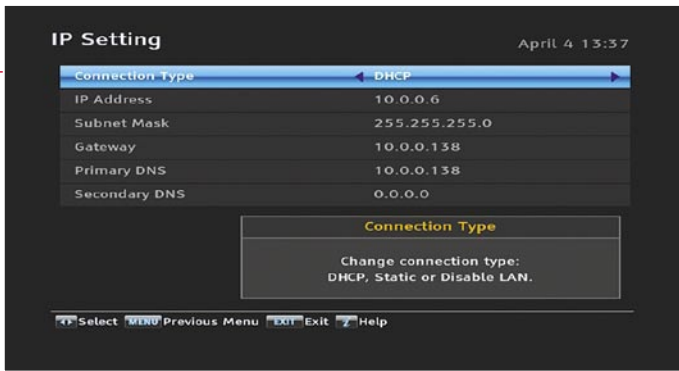
Data disalurkan dalam kecepatan tinggi sehingga teori bisa dipraktekkan, dan dunia baru dalam penggunaan receiver satelit telah dibuka. Coba bayangkan – film baru di TV ketika Anda sedang liburan dan sebelum berangkat, Anda lupa memasang pengatur waktu untuk perekaman.

Tidak masalah: jika Anda memiliki akses ke Internet di tempat tujuan liburan Anda, Anda bisa membuat pengatur waktu dari jarak jauh, periksa apakah seluruh masukan sudah benar dan periksa apakah perekaman telah dibuat. Jika masih belum cukup, Anda bisa menggunakan FTP untuk mengirimkan siaran TV atau radio dari rumah Anda langsung ke tempat liburan Anda.

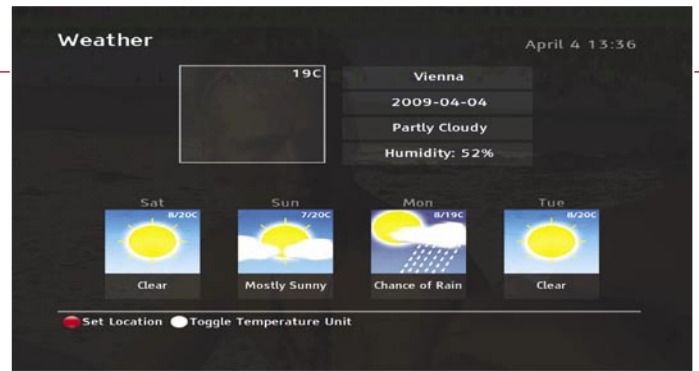
Menu 'Hiburan' adalah tahap pertama oleh Topfield yang menjadi batas tidak jelas antara receiver, jaringan dan Internet. Misalnya, Anda mungkin menggunakan TMS untuk mencari video di YouTube dan menontonnya di TV layar datar Anda di ruang keluarga. Biasanya kami mencoba fitur ini dan mendapatkannya bekerja tanpa masalah.

TMS cukup memadai sebagai portal situs YouTube dan bahkan menampilkan daftar video yang paling banyak ditonton. Alternatif lain Anda

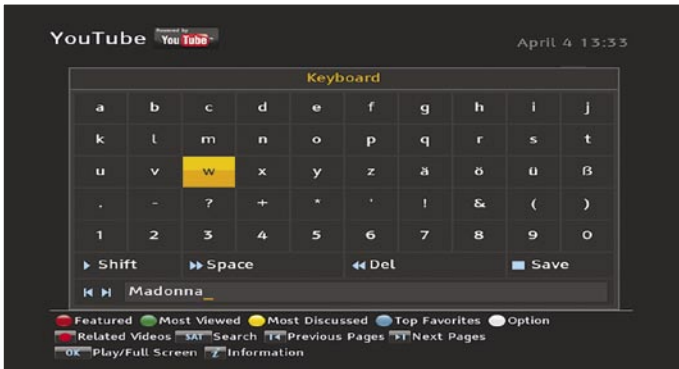




Pengaturan jaringan melalui DHCP |



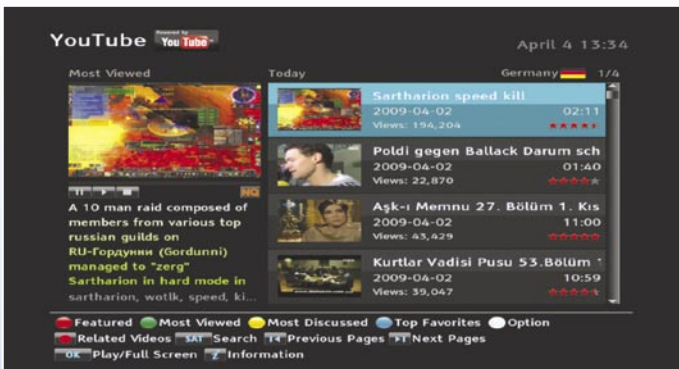
Prakiraan cuaca |



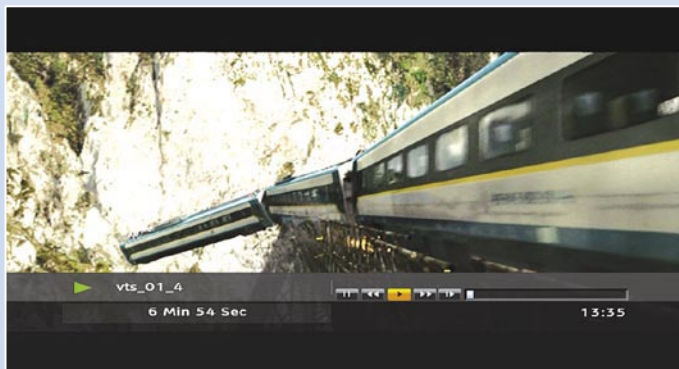
Pencarian video YouTube |



Video Game Battle Tank |



Video YouTube yang paling sering ditonton |



Pemutaran DivX |



Pemutar MP3 |

bisa melihat foto di Flickr atau membaginya ke teman-teman, dan jika Anda ingin mencari prakiraan cuaca untuk hari ini, TMS menyediakan menu tertentu untuk hal ini, yang menyediakan prakiraan untuk seluruh penjuru dunia.

Tambahannya, TMS tentu saja bisa digunakan untuk memutar MP3 atau menampilkan foto dengan tampilan slide show. Jika Anda telah mengunduh film DivX dari Internet, Anda bahkan bisa menontonnya dengan menggunakan Topfield TMS.

Video Game The Battle Tank menambah bumbu pada kue multimedia dan bisa dimainkan sendiri di rumah, atau dengan teman melalui jaringan.

TAP

Topfield adalah pabrikan pertama yang menciptakan landasan untuk pengembang hobi untuk mengimplementasikan fitur baru dalam peranti lunak receiver. Nama permainan ini adalah TAP yaitu Protokol Aplikasi Topfield. Pengguna bisa memakai aplikasi TAP untuk mengatur receiver mereka dan bahkan menambahkan fungsi baru.

Topfield mulai mengintegrasikan TAP beberapa tahun lalu dan

sehingga tidak menjadi kejutan bahwa TAP menjadi fitur utama dalam peranti lunak TMS. Penulisan aplikasi TAP untuk receiver Topfield model lama tidak akan bekerja pada TMS, pabrikan telah menyatakan bahwa antarmuka agak sulit diubah, namun tidak begitu sulit untuk mengkompilasi ulang aplikasi TAP yang sudah ada menjadi kompatibel dengan TMS dalam waktu singkat.

Dengan TMS ini Topfield merupakan pabrikan receiver pertama yang memasuki wilayah tidak umum dengan membuat Internet sebagai bagian dalam produknya. Biasanya, kualitas video YouTube jauh di bawah siaran satelit, namun perubahan terjadi dan YouTube sedang mencari teknologi kompresi baru sehingga sejumlah video telah tersedia dalam definisi-tinggi.

Kesan kami adalah sangat bagus dan cepat atau lambat, pengguna akhir tidak lagi berpikir dari mana datangnya siaran TV, sepanjang siaran ini hadir di layar TV dengan kualitas yang bagus.

Satu hal yang pasti: Topfield akan berada paling depan untuk pengembangan baru ini!

Penguji TELE-satelit: Thomas di Vienna bermain Video Game jaringan Battle Tank yang disertakan dalam TMS untuk laporan uji ini, dengan Editor Grafis TELE-satelit Barna di Budapest (gambar besar).



TOPFIELD

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TV Signal Analyser

SPAUN electronic presents an ideal measuring instrument for installers and electricians with the compact, light and first of all easy to handle SPAROS 609. The SPAROS 609 is suitable for DVB-T/H, DVB-C, DVB-S, DVB-S2 (HDTV) as well as for analogue signals and is equipped with a very fast and precise spectrum indication for the signal analysis.

Similar analogue terrestrial and FTA MPEG2 programs can be watched and evaluated on the very well readable LCD colour screen with a diagonal of 17.7 cm in 16:9 widescreen display format. Further information about SPAROS 609 are available in the brochure **SPAROS 609**.



13 Input Cascadable System

Particularly in multi-dwelling projects rises the need for SAT IF distribution systems for several satellite orbit positions. With this new cascadable multiswitches SPAUN electronic offers for the first time a cascadable SAT multiswitch system for 3 satellite systems with 12 SAT IF levels and terrestrial input signals. The power launch amplifier SBK 131309 NF has a high gain for the SAT-IF trunk lines. This multiswitch is terrestrial passive and return path compatible. It is possible to supply 18 V / 250 mA remote power supply for the feed-in of multiband and / or CATV amplifiers.

Cascadable multiswitches for 8, 12 or 16 subscriber outputs are available. For the first time the cascadable multiswitches are offered in an active (with signal gain at the subscribers output) or however in a passive version with appropriate signal absorption. Of course the power launch amplifier has an integrated energy-saving power supply and supports besides the SPAUN typical standby function. Further information are available in the brochure **13 Input Cascadable System**.

SBK 131309 NF, SMK 13089 FA, SMK 13089 F, SMK 13129 FA, SMK 13129 F, SMK 13169 FA, SMK 13169 F

The new Light-Class

Up to 16 subscribers can be supplied with that new SPAUN Light-Class. Those compact multiswitches have 4 SAT-IF-inputs for Quattro LNBS and one passive terrestrial input, which is also useable for DVB-T. A high signal level at the subscriber outputs optimizes the receipt even with longer cable runs.

An integrated energy-saving switching power supply ensures low operating costs. The Light-Class is offered with a particularly attractive cost-performance ratio with 8, 12 or 16 subscriber outputs. Further information are available in the brochure **Light-Class**.

SMS 5807 NF, SMS 51207 NF, SMS 51607 NF



SPAUN Mini

The SPAUN Mini series covers two cascadable multiswitches for 4 SAT IF levels, as well as a SAT power launch amplifier which can be used also as line amplifier. All devices have small dimensions in the format of a cigarette packet. As no power connection is needed for the multiswitches, this series is particularly well adequate for floor distribution. If necessary the amplifier SBK 4415 NF can be integrated into the system.



The supply of the amplifier is made by a wall power supply. Further information are available in the brochure **SPAUN Mini**.

SBK 4415 NF, SMS 4447 F, SMS 4447/8 F

CATV Amplifier

At ANGA Cable 2009 our proven product program is extended by the CATV Amplifier HNV 32/65 DPE with digital level adjuster and equalizer, which is developed according to KDG guidelines. By the use of switching power supplies „Made by SPAUN“ the energy efficiency and longevity could be improved again. Further information are available in the brochure **CATV Amplifier**.



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Expert opinion



The Topfield TMS SRP-2100 is truly a next-generation receiver. For the first time it merges satellite television and Internet access and thus creates a totally new viewing experience with hitherto unknown features. The operating concept is smart and the OSD sports a very user-friendly interface. Two simultaneous recordings can be made while watching a recorded event. All this makes the TMS the ideal companion for the whole family as well as newbies or even experienced DXers.



Thomas Haring
TELE-satellite
Test Center
Austria



The cooling fan of our pilot receiver was rather noisy, but the manufacturer meanwhile assured that a more silent fan and an improved power unit will be used for serial production. The quality of the remote control could be higher.



Topfield TMS channel list |



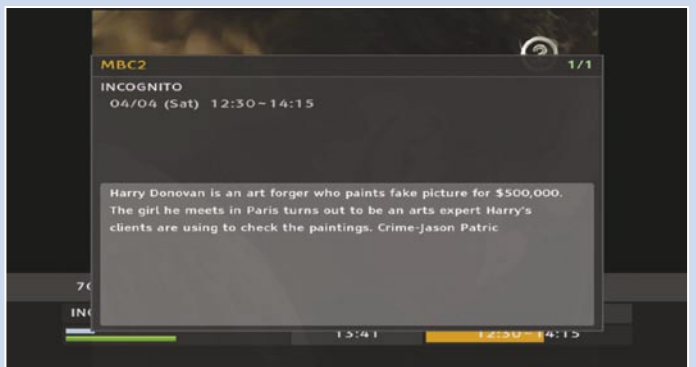
Channel list editing |



Channel list options |



Info bar |



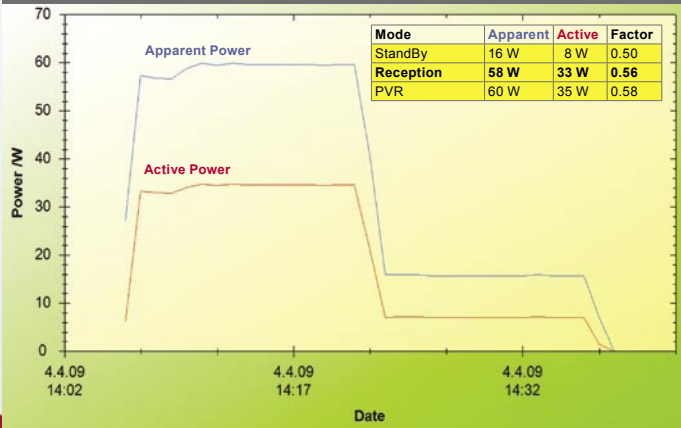
Extended info bar |

TECHNIC

DATA

Manufacturer	Topfield, Seongnam/Korea
Fax	+82-31-7082607
E-Mail	inquiry@topfield.co.kr
Model	TMS SRP-2100
Function	Digital HDTV DVB-S2 Receiver with Various Multimedia Features
Channel Memory	10000
Symbolrate	1-45 Ms/sec.
SCPC Compatible	yes (> 2000 Ms/s)
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
HDMI Output	yes
Scart Connector	2
Audio/Video Outputs	6x RCA
Component Video Output	yes
S-Video Output	yes
UHF Modulator	no
0/12 Volt Connector	no
Digital Audio Output	yes
EPG	yes
C/Ku-Band compatible	yes
PVR-Function	yes
USB 2.0 Connector	yes
Ethernet	yes
E-SATA	yes
Max. hdd size	1TB
Dimensions	340/82/258mm
Weight	3.8kg

ENERGY DIAGRAM



First 15 minutes: In the first minute the receiver is powered up, followed by 14 minutes of active operation with channel switching, recording, playing back, etc. Second 15 minutes: Standby

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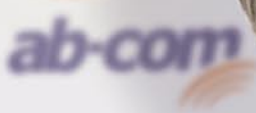
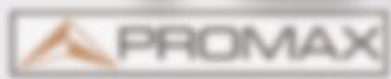
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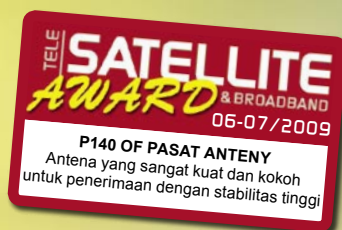
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■ Feedhorn disertakan dalam paket antena



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■ Antena dikirim dalam kotak kayu yang sangat kuat



■ Antena terdiri dari tidak begitu banyak bagian...



■ ...sehingga perakitannya sangat mudah.

Saya memerlukan palu dan linggis untuk membuka kotak tersebut dan mengeluarkan komponen antena dari kotak tersebut. Setiap bagian dibungkus dengan sangat hati-hati dengan lapis pelindung. Tidak akan terjadi goresan kecil akibat transportasi. Saya benar-benar menyenangkannya. Hanya peralatan profesional yang dipaket dengan perlakuan seperti ini. Setelah semua bungkusnya telah dibuka, saya menyadari bahwa hanya terdapat sedikit komponen. Baik - akan lebih mudah dalam pemasangannya.

Meskipun kenyataannya bahwa tidak terdapat instruksi mendetil namun hanya satu gambar yang menunjukkan cara pemasangan antena, perakitannya sangat mudah dan setiap orang bisa melakukannya. Semuanya dapat terpasang dengan sempurna.

Saya agak kaget ketika mendapatkan bahwa antena tersebut dirancang untuk tiang berdiameter 70 mm. Dimensi umum adalah 60 mm (dan tentu saja 40 mm untuk antena piringan kecil). Setelah memeriksa bahwa baut pengencang antena ke tiang cukup panjang, saya memutuskan untuk tidak membuat tiang baru, tetapi menggunakan tiang 60 mm yang sudah ada. Akan tetapi, untuk instalasi permanen, saya merekomendasikan penggunaan tiang dengan diameter yang semestinya, yaitu 70 mm.

Ketika antena piringan diletakkan pada tiang dan semua baut telah dikencangkan, saya merasa puas bahwa antena tersebut kuat dan kokoh. Hal ini sangat penting khususnya untuk ukuran antena ini.

Saatnya untuk memasang LNB. Antena ini dilengkapi dengan feedhorn untuk Ku-Band. Feedhorn ini dioptimasi untuk tipe antena PFA, LNBF

biasa untuk antena piringan Offset tidak akan memberikan hasil yang baik jika dipasang pada antena Fokus Utama.

Feedhorn ini adalah untuk LNB dengan pinggir, yang sayang sekali tidak tersedia pada saat pengujian. Apa yang saya miliki hanyalah LNBF untuk Ku-Band yang telah dilengkapi dengan feedhorn PFA (NF=0.3dB). Terlalu tebal dan tidak sesuai dengan pemegang LNB. Saya harus mengesampingkan feedhorn bawaan dan pemegang LNB-nya, dan menggunakan pemegang lain yang sesuai untuk LNBF. Akhirnya, saya siap untuk melakukan pengukuran.

Saya mengarahkan antena pada arah yang kurang lebih tepat dan segera saya melihat sinyal pada signal analyzer. Signal analyzer mengidentifikasi posisi satelit di 28,2° BT (satelit Astra). Saya memainkannya sebentar dan setiap saat saya mendapatkan kualitas sinyal yang sangat bagus. Misalnya, MER = 17,4 dB dan bahkan lebih!

Namun bagaimana dengan penerimaan satelit yang lemah? Saya mempelajari footprint dari satelit yang berbeda pada situs SatcoDX dan menyadari bahwa tinggal di Polandia adalah hal yang paling bagus untuk peminat satelit, namun tidak berlaku jika Anda harus menguji antena piringan besar. Sebagian besar daya pancar yang ditujukan ke wilayah Eropa juga mencakup bagian tengah benua dengan daya yang sangat kuat. Antena berukuran 90 cm sudah lebih dari cukup untuk menerima sebagian besar satelit dan pancarannya. Hanya sedikit pancaran untuk wilayah tertentu yang tidak menjangkau lokasi saya, namun untuk kasus ini, antena berukuran 140 cm agak terlalu kecil untuk menerimanya.

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■ Kami menggunakan LNB yang ada, sehingga feedhorn dan penopang aslinya tidak diperlukan.



■ Ini adalah pemegang feedhorn



■ Hanya dengan antena yang sangat besar Anda bisa mendapatkan bacaan MER dan NM yang begitu tinggi



■ Diarahkan ke HOTBIRD di 13 BT



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yang praktis untuk pengujian kepekaan ini adalah cakupan EXPA22K2 dari satelit EXPRESS AM22 (53° BT). Pancarannya menunjukkan bahwa saya bisa menerimanya dengan antena berukuran 150-190 cm (kekuatan sinyal >40 dBW), dan saya berharap bisa mendapatkan sesuatu dengan P140. Jika 42-43 dBW, maka antena bahkan bisa mengunci sinyal tersebut.

Ketika saya mencoba mengarahkan PASAT 140 pada satelit ini, saya menyadari bahwa sekrup pengatur elevasinya terlalu pendek untuk satelit ini. Saya perlu mengatur sudut elevasi sebesar 21,4° namun berada di luar jangkauan antena piringan ini. Elevasi pada antena yang kami uji ini dapat diatur dari 25° hingga 70°. Hal termudah yang bisa saya lakukan adalah mengatur elevasi antena pada posisi yang paling bawah dan ditambah dengan memiringkan tiang beberapa derajat.

Setelah saya melakukannya, saya mendapatkan spektrum dari sinyal EXPRESS AM22 pada signal analyzer. Pembacaan C/N pada level 8 dB. Sayangnya, sinyal ini berada di bawah ambang penerimaan. Satu desibel lebih dan saya akan bisa menikmati sesuatu.

Nasib buruk. Saya berpikir bagaimana bisa mengukur kinerja antena piringan ini? Akhirnya, saya memutuskan untuk menggunakan satelit yang lebih kuat (HOTBIRD di 13° BT), mengukur kualitas sinyal-nya dan membandingkan dengan kualitas sinyal dari antena piringan 60 cm dan 90 cm. Antena piringan ini dilengkapi dengan LNBF berbeda namun semuanya berkualitas cukup bagus (NF = 0,3~0,4 dB).

Sebagaimana yang saya harapkan, kualitas sinyalnya lebih baik secara signifikan. Nilai MER-nya lebih baik 1-2

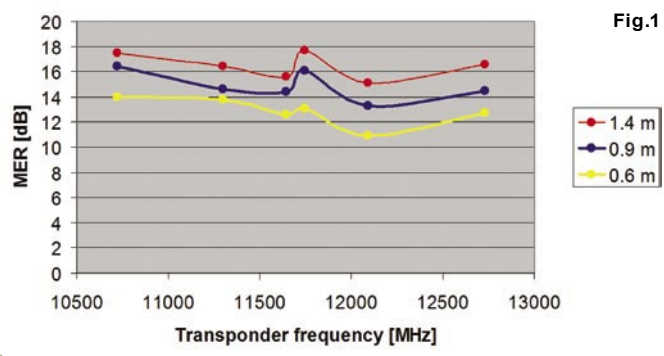
dB untuk antena piringan 90 cm dan 3-4 dB untuk antena piringan 60 cm. Mungkin ada pembaca yang kaget tetapi tingkat sinyal yang saya dapat dari P140 dan LNBF fokus utama tidak lebih tinggi dari yang didapat dari antena piringan yang lebih kecil. Pada TV digital, adalah lebih penting untuk mendapatkan sinyal besar dengan noise ratio daripada tingkat sinyal absolut. Untuk mencapainya, haruslah memiliki antena yang besar. (Gambar 1)

Berdasarkan perbandingan pengukuran ini, dapat saya katakan bahwa P140 adalah benar-benar antena dengan gain tinggi. Ini berarti bawa lengkungan permukaannya tepat dan sinyal terfokus ke titik feedhorn. Antena piringan ini sangat solid sehingga jika Anda memasangnya pada tiang yang cukup kuat, maka akan bertahan hingga bertahun-tahun.

Rentang pengaturan elevasi (25-70°) lebih sesuai untuk negara-negara yang berlokasi di dekat garis khatulistiwa daripada untuk lokasi saya di Polandia (52° LU) namun tentu saja bergantung saja pada satelit yang ingin Anda terima. Pasat akan mengadakan antena piringan dengan rentang pengaturan yang lain, jika Anda menyatakan keinginan Anda.

Jika Anda memutuskan untuk membeli salah satu dari antena piringan yang kokoh dan mudah dipasang ini, ingatlah tentang tiang berdiameter 70 mm serta LNB yang sesuai untuk Ku-Band yang bisa dipasangkan pada dengan 4 sekrup.

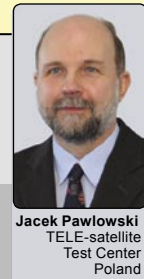
Antena piringan Pasat sangat sesuai untuk instalasi profesional, dan untuk penggunaan pribadi jika mereka menginginkan sinyal yang stabil.



■ Pancaran ini sangat sulit menjangkau lokasi pusat uji kami, namun antena Pasat mampu menerima beberapa sinyal.

Opini Ahli

+
Antena yang sangat kuat dan kokoh. Terpasang dengan sempurna. Dipaket dengan sangat hati-hati. Hasil karya yang memenuhi harapan.



-
Tidak ada

TECHNIC DATA	
Manufacturer	Pasat Anteny, Bulgaria
Telephone	+359 350 6 3911, +359 350 6 6311
Fax	+359 350 6 4011
Website	www.sat.bg
Email	sales@pasat.bg
Function	Prime focus aluminum dish for Ku-Band
Model	P 140
Diameter	140 cm
Focus	50 cm
F/D	0.375
Gain @ 11.350 GHz	42.2 dB
Gain @ 12.125 GHz	42.8 dB
Gain @ 12.626 GHz	43.5 dB
Noise temperature (at elevation 42°)	47 K
Opening angle (-3dB)	<1.25°
Thickness	1.2 mm
Reflector mass	6 kg
Supporting hardware mass	5.2 kg



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MOTECK SG-2500

Teknologi Terkini untuk Motor H-H Mount Polar

Motor H-H untuk antena berputar dengan diameter di atas 120 cm dari horizon ke horizon – seperti namanya – telah ada di pasaran untuk lebih dari sepuluh tahun. Perangkat ini memungkinkan penerimaan seluruh satelit yang tersedia di lokasi tertentu. Rancangan dasar dari motor ini tetap tak berubah dalam sepuluh tahun ini, yang bisa menjadi indikasi bahwa rancangan tersebut telah sempurna. Motor baru dari MOTECK telah menunjukkan, bahwa selalu terdapat ruangan untuk perbaikan.

TELE SATELLITE
AWARD & BROADBAND
06-07/2009

MOTECK MOTOR SG-2500
Motor yang tidak berisik
dengan penggerak bebas-toleransi
untuk posisi antena yang tepat

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Perbedaan dari pendahulunya sulit terlihat ketika membuka bungkus perangkat ini, namun segera setelah Anda mulai memasang motor ini, maka menjadi bukti bahwa SG-2500 terbuat dari bahan bermutu tinggi: elemen mounting yang Anti-karat dan kotak stainless menjamin motor ini tahan cuaca. Skala pengaturan yang mudah dibaca dan diberi tanda dengan tepat untuk pengarahannya pada arah selatan (utara) memudahkan pengarahannya motor dan antena pada saat bersamaan.

SG-2500 bekerja dengan baik tanpa masalah ada seluruh protokol DiSEqC

Untuk mengoperasikan antena dengan DiSEqC 1.0 hingga 1.1, MOTECK menyediakan V-Box II maupun DIGIBOX,

DiSEqC
H-H Mount



yang memerlukan sudut rotasi sebagai nilai Goto-X. Sudut rotasi yang sebenarnya dapat dihitung menggunakan rutin GAAPS yang tersedia dari MOTTECK untuk diunduh di www.motteck.com, atau dari www.gaaps.com.tw. Alternatifnya, Anda juga bisa memilih peranti lunak kami USPOS, yang juga sangat mudah digunakan (www.TELE-satellite.com/Uspos.exe).

Pada protokol DiSEqC 1.2, posisi otomatis tidak memerlukan perangkat tambahan lainnya. Akan tetapi, mengoperasikan motor pada protokol 1.2 memunculkan kelemahan dari protokol DiSEqC jika memori internal motor yang digunakan. Memori yang digunakan oleh MOTTECK – dan pabrikan lainnya tidak ada perbedaan – memiliki kapasitas hingga 60 posisi satelit tetapi kurang dapat diandalkan karena seluruh masukan dihapus jika motor di-reset. Hal ini berarti bahwa seluruh posisi satelit yang telah disimpan akan hilang.

Tapi ini bukan satu-satunya masalah pada memori. 26 posisi pertama terdiri dari parameter yang telah diatur – sayangnya – sehingga tidak bisa digunakan. Selain dari kenyataan bahwa nilai ini dihitung untuk meridian nol, nilai ini juga tidak bisa digunakan karena receiver tidak memperhitungkan nomor posisi pada motor, tetapi menulis data satelit dengan urutan dari kecil ke besar.

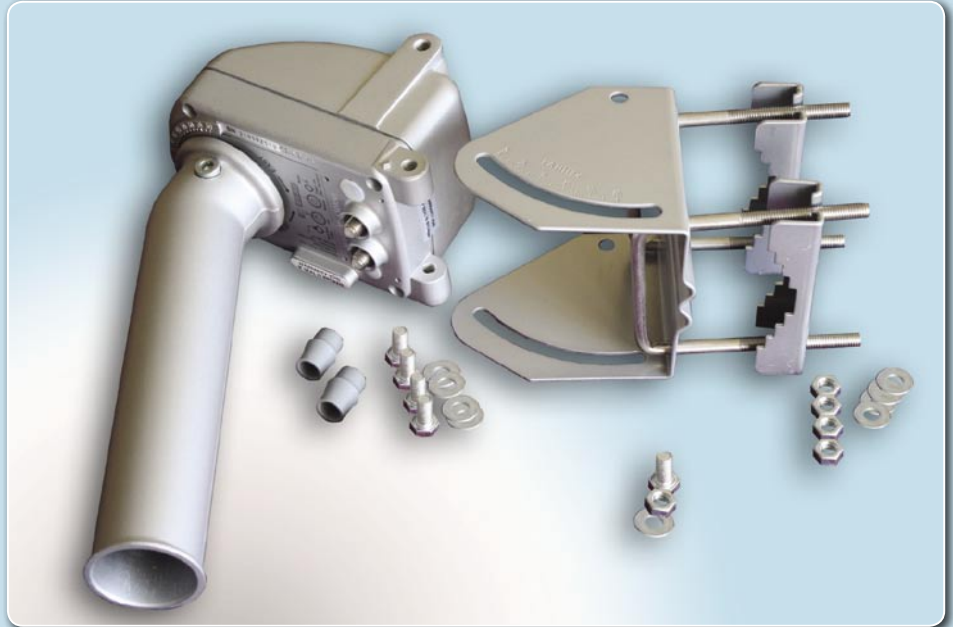
Untuk penyimpanan posisi data yang aman dan stabil Anda harus mengandalkan receiver daripada motor. Inilah satu-satunya cara untuk mengendalikan motor dengan perintah kendali DiSEqC 1.2 secara langsung, Goto-X. Beberapa receiver DiSEqC 1.2 bahkan memiliki fitur menu Goto-X tersendiri. Receiver dengan integrasi DiSEqC 1.3 atau USALS bekerja lebih baik. Secara otomatis akan menghitung azimuth sudut rotasi, menyimpannya dan memancarkannya bersama dengan perintah Goto-X. Tentu saja SG-2500 mampu secara sempurna memahami perintah Goto-X dan merupakan pasangan yang serasi untuk receiver tersebut.

Mudah dalam pemasangan motor ke sistem antena

MOTTECK SG-2500 dapat dipasang dengan cepat dengan bantuan kunci pas 13 mm. Dengan mudah dapat diatur menurut garis lintang setempat. SG-2500 dapat dipasang pada tiang dengan diameter antara 35 dan 65 mm. Untuk menjamin kestabilan pemasangan, bagaimanapun, sebaiknya tidak kurang dari 50 mm. Ini juga merupakan diameter yang dipilih oleh MOTTECK untuk rotor.

Setelah tiang terpasang pada posisi horizontal yang tepat, kita harus menemukan arah selatan (utara) yang tepat dan menandainya pada tiang. Motor – yang secara asal berada di posisi nol – dapat dipasangkan dan diarahkan.

Buku pedoman terdapat dalam bahasa Inggris dan menyediakan petunjuk bermanfaat untuk perakitan dan pengarahannya. Buku ini juga memuat daftar skala yang berhubungan dengan elevasi antena untuk garis lintang setempat.



Komponen sebelum perakitan



Skala sudut rotasi pada motor



Pengaturan garis lintang pada motor



Motor yang telah terpasang pada tiang

Alternatif lain, perhitungan ini dapat dengan mudah dilakukan dengan kalkulator trigonometri:

$$\text{Nilai skala} = \text{garis lintang} - 60^\circ + \arctan\left(\frac{\cos(BG) - 0.151}{\sin(BG)}\right)$$

Segera setelah antenna (berdiameter hingga 120 cm atau antenna datar) diarahkan ke nilai ini, maka bisa dipasangkan ke rotor. Dengan menggunakan pedoman pada rotor, selanjutnya diarahkan ke Selatan (Utara).

Dalam kebanyakan kasus, Anda tidak bisa segera mendapatkan penerimaan dengan antenna ini. Pertama-tama motor harus diputar pada sudut satelit, baik secara manual ataupun menggunakan menu receiver. Untuk hal ini Anda memerlukan petunjuk sinyal yang masuk, yang ditampilkan oleh receiver. Umumnya, receiver terletak di lokasi yang berbeda dan tidak bisa digunakan sebagai pedoman sinyal. Pencari Satelit murah bisa melakukan trik ini, jika dipasangkan kabel antenna. Perangkat seperti ini bisa menjadi bermanfaat pada tahap akhir, setelah angin kencang memindahkan posisi antenna, misalnya. Pencari Satelit dilengkapi dengan indikator yang memungkinkan untuk memaksimalkan penerimaan sinyal: untuk pengaturan vertikal Anda bisa mengubah skala elevasi, untuk pengaturan horizontal Anda menggerakkan antenna pada rotor.

Gerakan motor tidak berisik dan tepat

Penggerak yang digunakan untuk MOTTECK SG-2500 merupakan yang paling inovatif di pasaran. Pengujian kami secara



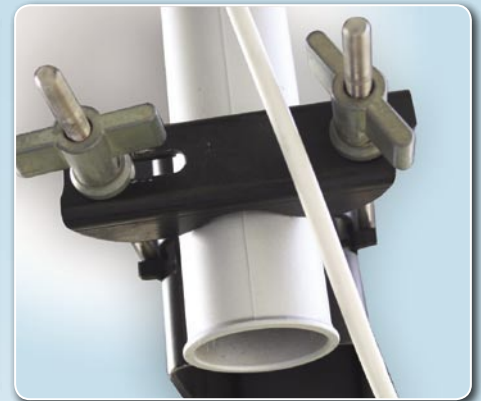
Tanda untuk pengaturan motor pada tiang, yang mengarah ke Selatan



Nilai elevasi yang diatur pada antenna



Pedoman alur pada rotor untuk pengaturan antenna ke arah Selatan



Antenna yang telah diatur pada pedoman alur

jelas membuktikan bahwa penggerak baru ini menurunkan noise level untuk keseluruhan busur dari 75° BT hingga 75° BB, tanpa mengkonsumsi daya yang lebih besar daripada penggerak yang digunakan sebelumnya. Hal ini membuat putaran antenna tidak berisik bagi tetangga. Jika

Anda juga menggunakan antenna datar yang sangat tidak terknal, tidak ada alasan untuk mengeluh berdasarkan gangguan yang tampak maupun terdengar.

Pengujian juga menunjukkan bahwa kelemahan penggerak yang telah digunakan hingga kini, sekarang telah dihilangkan. Dengan adanya inovasi yang telah dipatenkan maka toleransi pengaturan batangan penggerak secara praktis dikurangkan hingga nol. Hal ini berarti bahwa antenna piringan diarahkan pada setiap satelit dengan ketepatan yang persis, tidak peduli dari mana gerakan antenna dimulai. Bahkan posisi satelit yang hanya berjarak tiga derajat sekarang bisa dipisahkan. Pengujian kami bisa mengkonfirmasi bahwa dengan penggerak baru ini blind scan tidak lagi menerima





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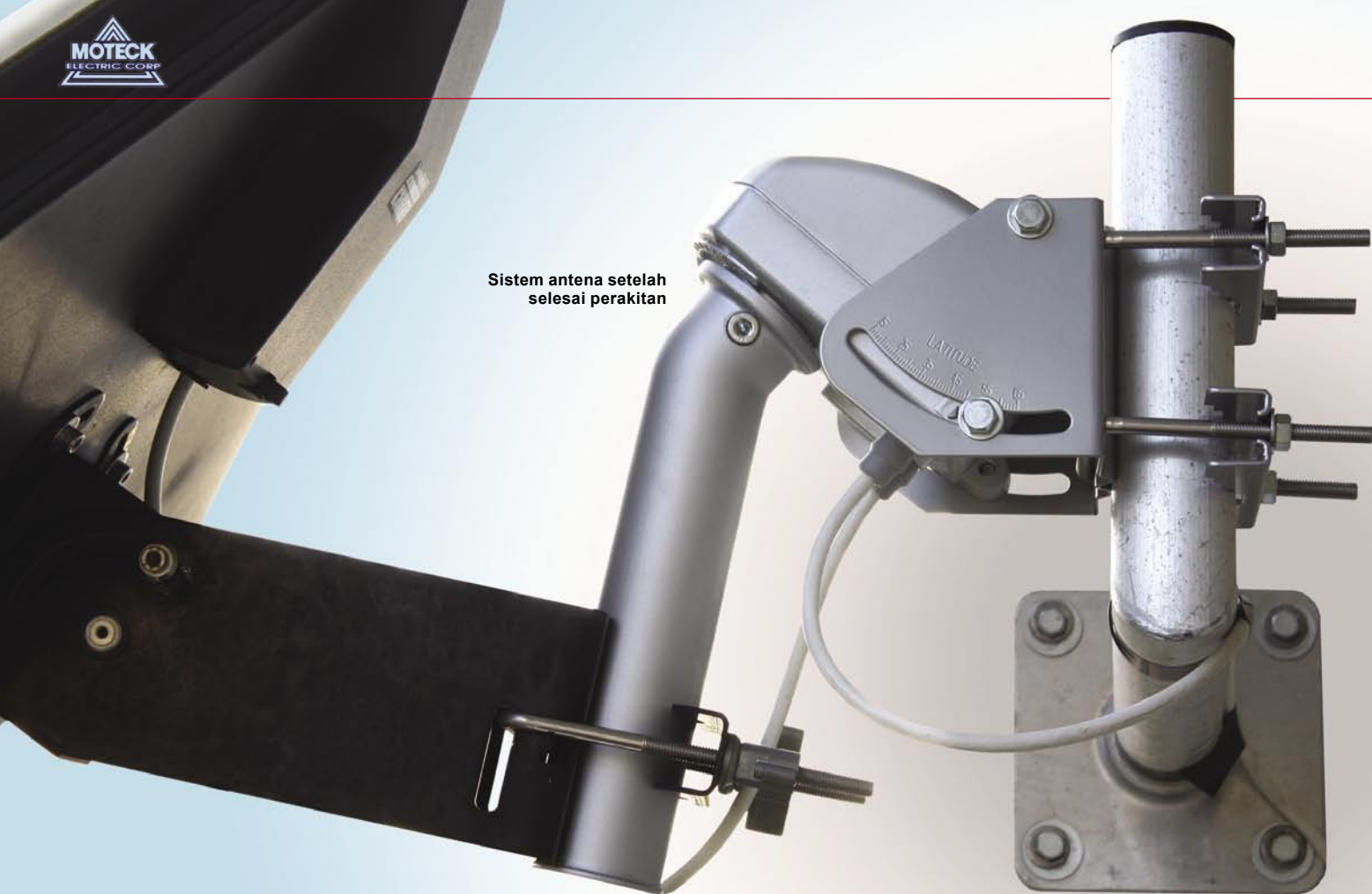
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Sistem antena setelah selesai perakitan



transponder dari posisi satelit berdekatan. Pada saat yang sama kekuatan sinyal dari transponder yang lemah mendekati ambang penerimaan dapat ditingkatkan.

Motor MOTTECK SG-2500 yang baru ini bekerja dapat diandalkan dan tidak berisik. Sistem penggerak baru yang bebas-toleransi ini memungkinkan pemisahan yang presis pada posisi satelit dan memaksimalkan kualitas penerimaan. Menggunakan receiver DiSEqC 1.3 maka sistem ini bisa dioperasikan secara otomatis sepenuhnya.



Panel koneksi pada motor

Opini Ahli

+

Perlindungan terhadap karat yang optimum, operasi yang sangat tidak berisik, posisi yang presis tanpa toleransi pengarahannya, sesuai untuk belahan bumi utara maupun selatan.

-

Buku pedoman hanya tersedia dalam bahasa Inggris.

Posisi yang terprogram dalam memori sudah kadaluarsa.



Heinz Koppitz
TELE-satellite
Test Center
Germany

Apa arti USALS, dan apa itu GAAPS?

Kedua istilah itu adalah metode penghitungan untuk posisi otomatis antena satelit. Posisi setiap satelit diberikan sebagai sudut antara meridian nol dengan posisi orbit. Nilai sudut ini geosentris, bagaimanapun, berarti bahwa nilai itu dihitung dengan pusat bumi sebagai titik pivot.

Untuk sistem horizon dari lokasi aktual – yang berbeda untuk setiap lokasi – nilai sudut ini harus dihitung ulang untuk dapat menerima arah pengaturan aktual yang diberikan untuk satelit tertentu.

Pabrikan aktuator Stab dari Italia adalah yang pertama kali menyarankan integrasi hitungan rumit ini untuk koordinat geografis pada receiver dan memberi istilah USALS, yang berarti Universal Satellite Automatic Location System.

MOTTECK memilih singkatan GAAPS untuk rumus penghitungan-ulang ini, yang berarti Global Automatic Antenna Positioning System.

Penghitungan-ulang koordinat adalah bukan fitur tambahan yang diimplementasikan pada motor, karena motor menerima data kendali dengan perintah Goto-X dari protokol DiSEqC 1,2. Sehingga, penghitungan-ulang dilakukan oleh receiver.

Maka, meskipun rutin untuk posisi otomatis diimplementasikan pada receiver, mereka tidak selalu membawa logo USALS yang telah terdaftar. Sering sekali diperlukan untuk merujuk pada buku pedoman untuk menemukan apakah receiver tersebut menyediakan fitur ini.

Beberapa receiver – dan motor, untuk maksud ini – secara sederhana menyatakan "kompatibel dengan DiSEqC 1,3" atau "kompatibel dengan Goto-X".



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Jiuzhou Skytrack JSU33 LNBF untuk sistem multifeed

Jika Anda bertanya pada pehobi satelit apa yang paling penting dalam pemilihan LNBF yang tepat untuk sistem penerimaan Ku-Band, Anda mungkin akan mendengar bahwa yang penting adalah gain konversi dan noise figure. Yang pertama haruslah setinggi mungkin dan yang kedua sebaliknya: semakin rendah semakin baik. Sepertinya, seluruh pembaca kami mengetahui bahwa gain konversi yang tinggi berarti bahwa tingkat keluaran sinyal LNBF adalah tinggi sehingga kabel panjang dan splitter/switch bisa digunakan tanpa takut bahwa sinyal akan terlalu lemah untuk penerimaan.



Penguji TELE-satelit Jacek Pawlowski ■
memasang LNB Skytrack baru dari
Jiuzhou pada antena piringan biasa yang
diarahkan ke HOTBIRD di 13o BT. LNB
JSU33 cukup kecil dan ringan.



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Transponder	Pol.	Freq.
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Tr-2	H	10723
Tr-3	V	11240
Tr-4	H	11296
Tr-5	H	11642
Tr-6	V	11662
Tr-7	V	11727
Tr-8	H	11747
Tr-9	H	12092
Tr-10	V	12111
Tr-11	V	12713
Tr-12	H	12731

Transponder yang digunakan sebagai sinyal uji.

Noise figure yang rendah akan memastikan sinyal yang bagus terhadap rasio noise pada keluaran LNBF, atau lebih layak bagi transmisi digital: rasio carrier-to-noise. C/N yang rendah diperlukan untuk memastikan penerimaan transponder yang lemah. Juga menyediakan margin yang tinggi untuk kondisi cuaca yang buruk. Sayangnya, kinerja noise pada perangkat yang nyata tidak mudah untuk diperkirakan. Selain noise figure, terdapat parameter lain yang memengaruhi rasio carrier-to-noise.

Parameter-parameter tersebut adalah: phase noise dari local oscillator pada LNBF dan kandungan palsunya, isolasi polarisasi, tingkat intermodulasi, penolakan image. Sehingga, satu-satunya cara yang praktis untuk mengukur LNBF adalah memasangnya pada antena dan membuatnya menerima sinyal sebenarnya. Kehadiran transponder berdekatan membuat lebih sulit bagi LNBF dan menurunkan kinerja carrier-to-noise.

Pada pengujian seperti ini, kami membandingkan kinerja aktual LNBF yang sedang diuji dengan LNBF lain yang tersedia di pasaran. Hal itulah yang kami lakukan ketika menguji LNBF dari Jiuzhou: Skytrack JSU33. Spesifikasi noise figure = 0,6 dB. Kami membandingkannya dengan dua LNBF: satu dengan NF spesifikasi 0,3 dB dan yang lainnya dengan NF=0,2 dB.

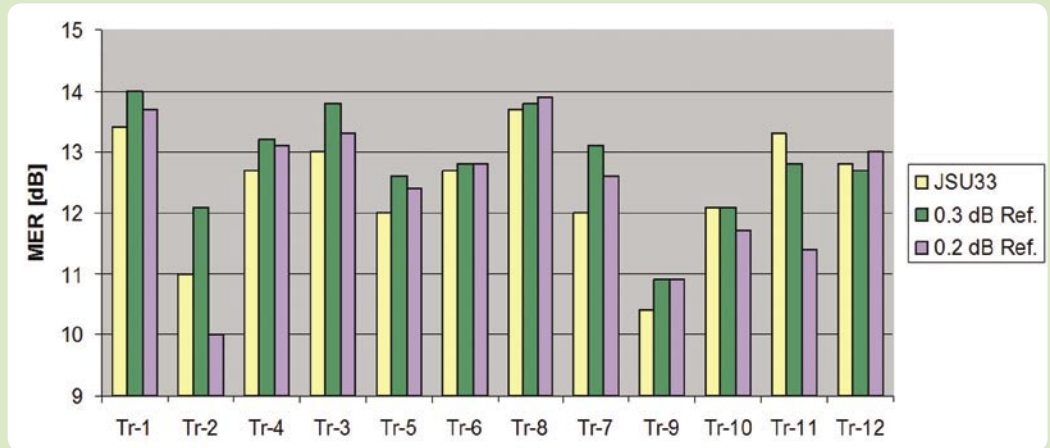
Untuk kegunaan pengujian kami, kami memilih duabelas transponder di

satelit HOTBIRD (13° BT). Parameternya terdapat dalam Tabel 1. Seperti yang dapat dilihat, terdapat 3 transponder untuk masing-masing sub-band (atas/bawah) dan setiap polarisasi. Dengan cara ini, kami memeriksa kinerja untuk kedua LOF: 9750 dan 10600 MHz, kedua polarisasi: vertikal dan horizontal dan untuk bagian awal, tengah dan akhir sub-band.

Gambar 1 menunjukkan kinerja noise dari perangkat. MER adalah modulation error ratio - parameter yang berhubungan erat dengan C/N dan menunjukkan

mengalahkan paling tidak satu saingan dan bahkan dua (Tr-11). Ya, Anda benar - perangkat 0,2 dB sepertinya tidak lebih baik daripada LNBF 0,3 dB! Untuk itulah kenapa kami harus menjelaskan

keluarannya lebih besar daripada saingan. Hal ini benar untuk 0,3 dB yang menjadi pemenang dalam kinerja noise. Kesimpulan apa yang bisa Anda tarik dari hasil ini? Kekuatan Skytrack JSU33


Gambar 1. MER untuk duabelas transponder berbeda dari satelit HOTBIRD (13o BT).

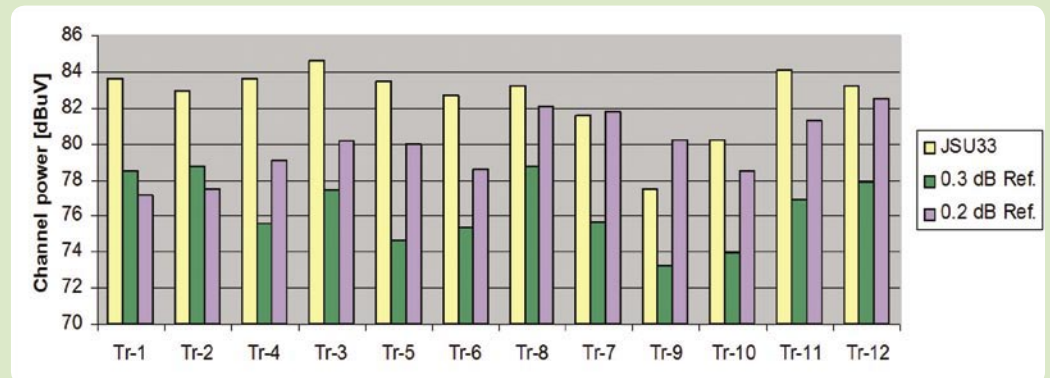
berapa banyak bit errors yang dideteksi pada sinyal yang datang. Apakah kami perlu menambahkan bahwa error tersebut disebabkan oleh noise? Semakin baik kinerja noise dari suatu LNBF, semakin tinggi nilai MER.

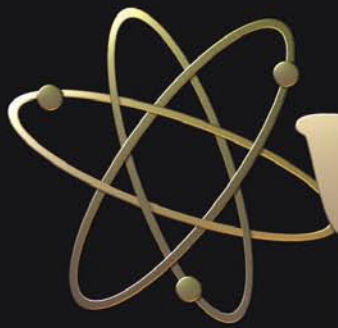
Jika untuk 8 transponder frekuensi rendah, kinerja noise pada JSU33 lebih jelek daripada perangkat pembanding, untuk yang empat lainnya, JSU33

lebih awal bahwa noise figure itu sendiri bukanlah satu-satunya parameter yang harus dimasukkan dalam cacatan dan hanya dalam pengujian nyata yang dapat menampilkan segalanya!

Bagaimana dengan parameter lainnya? Ditampilkan dalam Gambar 2. Di sini situasinya terbalik: JSU33 mengalahkan seluruh perangkat lainnya. Untuk 11 dari 12 transponder, daya

adalah pada daya keluarannya yang tinggi. Sehingga bisa menjadi pilihan untuk penerimaan multi-satelit ketika kita menggunakan multiswitch dan kabel panjang untuk menyalurkan ke banyak receiver. Keuntungan lainnya dari LNBF ini adalah untuk sistem multifeed dengan profil dan bobot yang lebih rendah (100 g) jika dibandingkan dengan perangkat lainnya yang sejenis.


Gambar 2. Daya keluaran dari LNB.



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<http://subursmt.com>
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Ringan, LNBF profil rendah sangat sesuai untuk instalasi multifeed. Daya keluaran tinggi merupakan keuntungan lain bagi aplikasi ini. Hasil karya yang bagus.



Jacek Pawlowski
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-

Bukan merupakan pilihan bagi DX-er.

TECHNIC DATA

Manufacturer	Shenzhen Xiangcheng Electric Technology Co., Ltd.
Internet	www.skytrack.cn/www.jiuzhou.com.cn
E-mail	jerrychu@skytrack.cn / hxyamar@jiuzhou.com.cn
Telephone	+86 755 26715445/26947236
Fax	+86 755 26947266/26715408
Model	JSU33
Function	Universal Ku-Band Single LNB
Input Frequency	10.7 GHz – 12 GHz
Output Frequency	950 MHz – 2150 MHz
LOF Initial Accuracy	1 MHz @ 25°C
LOF Thermal Drift	2 MHz (-30 ~ +60°C)
Noise Figure	0.6 dB max. @ 25°C
Conversion gain	60 dB min.
DC Current consumption	120 mA max.



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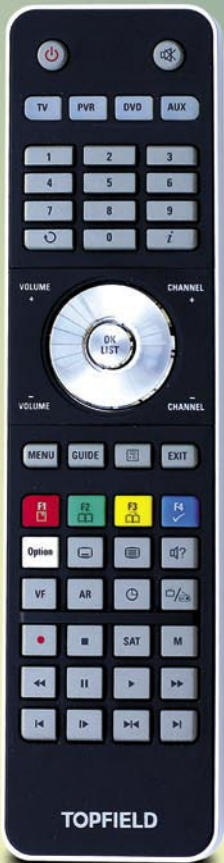
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Function	Digital HDTV DVB-S2 Receiver with Various Multimedia Features
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Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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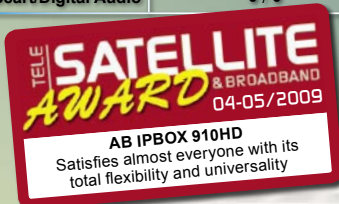
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Manufacturer	AB-COM
Website	www.abipbox.com
Function	Digital Linux-based HDTV PVR receiver for DVB-S, DVB-S2, DVB-C and DVB-T
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Manufacturer	ABC BIZNIS
Website	www.opensat.info
Function	Digital DVB-S CI-PVR Receiver
DVB-S2/LAN	— / —
Channel Memory	4000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / —
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Channel Memory	!
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	— / ●
Scart/Digital Audio	● / ●

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Function	Digital PVR Satellite Receiver for SDTV/HDTV
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Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / ●
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Czech	Česky	www.TELE-satellite.com/TELE-satellite-0901/ces/opensat.pdf
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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0901/sve/opensat.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/opensat.pdf



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



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Czech	Česky	www.TELE-satellite.com/TELE-satellite-0901/ces/abcom.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0901/deu/abcom.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0901/tur/abcom.pdf





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	● / ●

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



TOPFIELD



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

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SONICVIEW

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

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



VENUS

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

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0809/tur/abcom.pdf



AB-COM



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

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ARION



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	• / •

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0805/tur/nanoxx.pdf



NANOXX



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



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



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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0805/tur/opensat.pdf



OPENSAT



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

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TOPFIELD



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

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AB-COM



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

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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0801/tur/arionHDCI.pdf



ARION

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

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INFOSAT

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	- / -



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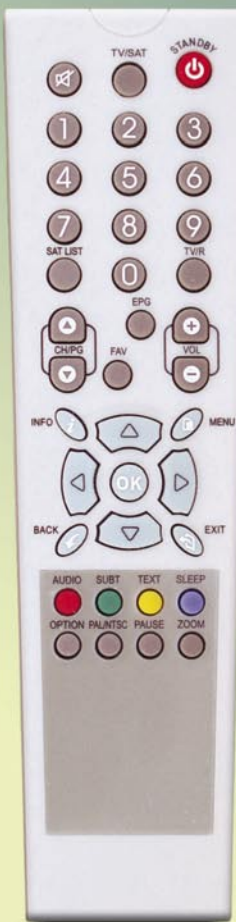
Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Digital Satellite Receiver FTA
DVB-S2/LAN	- / -
Channel Memory	4800
DiSEqC	1.0 / 1.2
S-Video/HDMI	• / -
Scart/Digital Audio	• / •



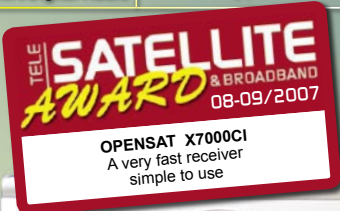
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0709/tur/jiuzhou.pdf





Manufacturer	ABC Biznis
Website	www.opensat.info
Function	Fast satellite receiver with two CI slots
DVB-S2/LAN	- / -
Channel Memory	6000
DiSEqC	1.0 / 1.2
S-Video/HDMI	- / -
Scart/Digital Audio	• / -



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OPENSAT



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Website	www.abcom.sk
Function	Digital Linux-based PVR satellite receiver
DVB-S2/LAN	- / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
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Inovasi dari Thailand



■ Niran Tangpiroontham (kiri), pemimpin INFOSAT, dan Alexander Wiese (kanan), Editor-in-Chief TELE-satelit, di depan kantor utama INFOSAT di Nontaburi, di luar kota Bangkok.

Bahkan produk jangka panjang seperti antena C-band masih memiliki ruang untuk pengembangan. Beberapa bulan yang lalu, INFOSAT di Thailand memperkenalkan antena segmen tunggal 1,5-meter ke pasaran. Hasilnya sukses! Kekuatan di belakang produk baru ini adalah Niran Tangpiroontham, pendiri dan pemilik perusahaan INFOSAT. Dia bukan baru untuk halaman TELE-satelit: kami telah memberitakan Niran dan ide barunya di TELE-satelit edisi 02-03/2007 dan 02-03/2008.

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■ Jangan berdiri di atas antena! Peringatan ini tidak berlaku untuk antena segmen-tunggal yang baru ini.

Niran memamerkan bahwa antena barunya cukup kokoh. "Instalatur menyukai antena baru ini", komentarnya bangga tentang produk terbarunya, "Mereka tidak perlu lagi menghabiskan waktu untuk memasang sekrup untuk menyatukan segmen-segmen antena, pekerjaan instalasi diselesaikan lebih cepat dan antena baru ini cukup kokoh."



■ Inovasi lain dari INFOSAT: Niran menunjukkan prototif LNB C/Ku-band multi-ruangan untuk dihubungkan ke multiswitch. LNB C-band dilengkapi dengan keluaran horizontal dan vertikal, sedangkan LNB Ku-band hanya terdapat keluaran vertikal. Ditujukan untuk pasaran domestik Thailand untuk penerimaan THAICOM di 87,5 o BT dalam C-band dan NSS 6 di 95o BT dalam Ku-band. Insinyur kami mencoba memasang LNB Ku-band dengan kedua polarisasi namun kebutuhan teknisnya terlalu tinggi", Niran menjelaskan alasan LNB kombo ini hanya bisa menerima satu polarisasi dalam Ku-band.

Artikel INFOSAT terbaru di TELE-satelit pada awal tahun 2008 menyertakan foto lahan terbuka. Itu dulu. Saat ini telah berdiri bangunan pabrik baru di atas lahan tersebut: "Itu adalah Pabrik Kedua INFOSAT" Niran menjelaskan dengan bangga. Dia memberi isyarat kepada para pekerja konstruksi yang sedang menyelesaikan polesan akhir: "Pada saat edisi ini dicetak, pabrik ini telah beroperasi sepenuhnya." Pabrik Nomor 1 telah mencapai batasnya: hanya beberapa minggu yang lalu pembuatan antena segmen tunggal dimulai.

"Pabrik Pertama berukuran 2.400 m²; Pabrik Kedua berukuran 2.500 m²", Niran menjelaskan. Pabrik Pertama dimiliki oleh INFOSAT, sedangkan Pabrik Kedua adalah sewa. "Hal ini untuk menghemat biaya yang telah digunakan untuk investasi mesin baru", Niran menjelaskan rencananya. Dia telah mampu mendapatkan tambahan dua mesin pelubang dari total lima yang digunakan untuk melubangi lubang berukuran 0,5mm pada gulungan aluminium tebal untuk segmen antena mesh.

Sejauh ini investasi terbesar adalah pada sistem cat semprot: yang digunakan untuk menyemprot cat pada bingkai dan segmen antena sesuai dengan cara yang diinginkannya. "Keseluruhan mesin baru ini memerlukan investasi hingga US\$ 400.000", komentar Niran. Pabrik Pertama berfokus pada produksi dan

■ Tahap pertama perakitan antena segmen-tunggal INFOSAT: rangka antena dilas di atas meja bulat. Pekerja di depan sedang memasang piringan pendukung di bagian tengah.



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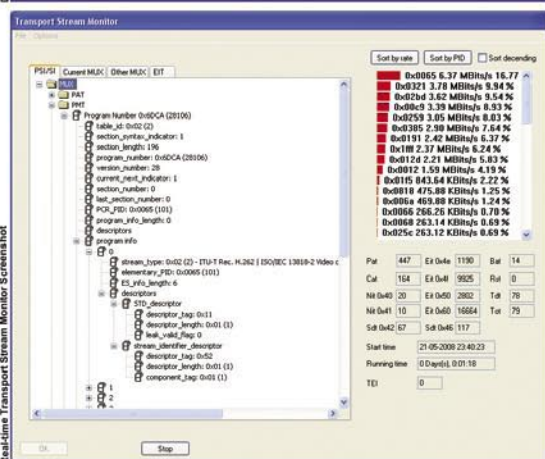
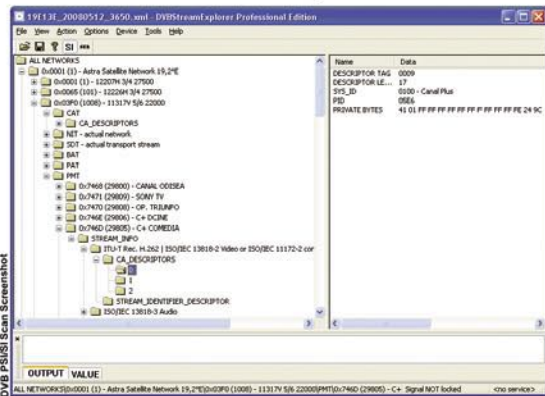
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- Scanning of PSI/SI information as defined in ISO13818-1 and EN 300 468.
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- Parsing of SST, MGT, TVCT, CVCT, RRT, EIT, ETT, DCCT and DCCSCT tables, including most descriptors.

DVB DSMCC scanning

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

DVB MPE scanning

- Scanning of DVB MultiProtocol Encapsulation (MPE) as defined in ISO13818-6 and EN 301 192.
- Scan for active MAC addresses on MUX.
- Scan for active IPV4, IPV6, TCP and UDP endpoints.

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■ Segmen mesh disekrup ke rangka antenna – antenna segmen-tunggal INFOSAT 1,5 meter telah selesai.



■ Siap untuk pengiriman: tiga antenna dalam satu paket. Niran sedang memegang salah satu paket. Maksimum 20 paket ini masuk dalam satu palet, yang juga merupakan jumlah minimum pesanan internasional.

perakitan antenna piringan, sedangkan Pabrik Kedua digunakan untuk mengecat antenna, membungkusnya dan persiapan untuk pengiriman.

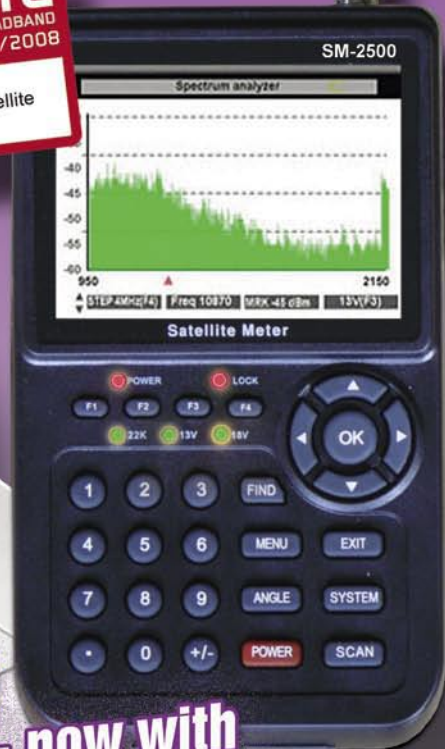
Seluruh investasi finansial ini membuat Anda berhenti sejenak dan berpikir: apakah Thailand terhindar dari krisis ekonomi global saat ini? "Tidak, tidak sama sekali", jawab Niran, "dimulai pada bulan September lalu dengan penurunan pada jumlah kontrak pembelian." Pada mulanya Niran tidak memiliki jawaban. Karyawannya mulai khawatir. Kemudian Niran hadir dengan solusi: "Harga aluminum dan baja, dua bahan baku penting yang digunakan untuk memproduksi antenna piringan, juga jatuh, dan mulai 1 Januari 2009 saya menurunkan harga antenna INFOSAT sebesar 10%." Segera setelah harga baru ini diumumkan, pemesanan mulai berdatangan. "Sekarang kami sangat sering bekerja tujuh hari per minggu untuk memenuhi seluruh pesanan ini", Niran menjelaskan dengan senyum di wajahnya. Dia cukup puas dengan tindakan penurunan-harga tersebut. Stok antenna yang tidak terjual hingga akhir tahun 2008 yang memenuhi lantai pabrik telah tidak ada lagi. "Saat ini, antenna dijual segera setelah diproduksi; agen penjual harus menunggu pengiriman pesanan mereka!" Pabrik Pertama mampu untuk menghasilkan maksimum 10.000 antenna piringan setiap bulan. Dengan dimulainya Pabrik Kedua, kapasitas ini meningkat menjadi 15.000.

Niran mengakui bahwa krisis ekonomi juga mempunyai keuntungannya. Harga untuk bahan baku bukanlah satu-satunya yang turun, upah juga turun. "70% dari karyawan kami adalah loyal; 30% tidak ragu-ragu untuk pindah ke perusahaan lain meskipun hanya ditawari kenaikan upah sebesar 1%." Kelayakan karyawan adalah aspek penting untuk perusahaan dengan 60 pekerja pabrik dan 30 di posisi administrasi.

Pada saat makan siang di Retoran Chao Praya River, berdampingan dengan pabrik baru dan hanya berjarak 20 km dari Bangkok, Niran menjelaskan rencana masa depannya: "Receiver yang paling populer dijual di Thailand adalah ZIMPLE Box 4 dengan lebih dari 30.000 receiver per bulan." Hingga saat ini, dia telah mengakuisisi receiver ini, dipabrikasi sesuai dengan spesifikasinya, di China. Namun dia membayar 20% pajak impor dan receiver tersebut diberi tanda 'Buatan China'. Jika dia mengimpor

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■ Antena berwarna pink? Siapa yang ingin membelinya? Jiraporn Tangpiroontham, istri Niran dan juga manager produksi antena menjelaskan, "5% dari antena kami yang terjual adalah yang berwarna pink. Pembeliya adalah wanita yang menyukai warna ini." Sebagian besar antena yang terjual, sekitar 60% adalah tanpa warna karena merupakan versi lebih murah. 35% pesanan berwarna hitam. Warna lain yang ditawarkan tersedia melalui pesanan khusus.



■ Saat ini, receiver ZIMPLE 4 Box masih diproduksi di China menurut spesifikasi dari INFOSAT. Sebelum disalurkan ke konsumen, peranti lunak H20 INFOSAT dan data transponder di-upload ke dalam receiver.



■ Pabrik Kedua yang baru dibangun, yang akan beroperasi bersamaan dengan penerbitan TELE-satelit edisi ini.



■ Bagian Pengiriman: di sini pengiriman harian ke penyalur dipersiapkan.

masing-masing komponen SKD (Semi Knocked Down), pajak impornya hanya 10% dan receiver ini bisa diberi tanda 'Buatan Thailand'. "Beberapa negara lebih menginginkan 'Buatan Thailand'", jawab Niran tentang idenya untuk membuat sendiri receiver tersebut. Pada saat yang sama dia berpikir tentang tambahan biaya yang secara langsung berhubungan dengan ide ini. Niran sedang mempertimbangkan prospek apakah melakukan pabrikan receiver atau tetap mengimpor receiver secara utuh. Sebenarnya, Niran belum mewujudkan pikirannya ini. Tetapi tunggu ... jika Anda melihat bagian dalam pabrik baru itu, maka akan terlihat tempat yang telah dicadangkan untuk jalur perakitan receiver ...

Akan tetapi, Niran ingin sekali menggapai tujuannya yang ambisius. Meskipun tahun 2009 secara resmi telah dikategorikan sebagai tahun resesi, dia telah menyusun tujuan untuk dirinya sendiri: "Pada tahun 2008, INFOSAT meraih penjualan sebesar US\$ 10 juta, untuk tahun 2009 saya mengharapkan peningkatan sebesar 20%!" Kesempatannya untuk meraih tujuan ini sebenarnya cukup bagus!



■ Pekerja tampak sibuk memasang sistem cat semprot baru, yang akan beroperasi penuh pada saat TELE-satelit tersedia di newstand.

DXer baru: HDTV

TELE-satelit secara reguler menulis artikel tentang Pehobi satelit (DXer). Hingga kini, kategori ini mencakup siapa saja yang bermain dengan penerimaan satelit sebagai hobi. Sekarang hadir kategori baru: Pehobi HDTV! Mereka yang hanya tertarik dengan saluran HDTV dalam DVB-S2, hanya itu saja. Kami bertemu dengan salah seorang yang pertama sebagai spesialis pehobi HDTV yang tidak biasa di Beijing – atau mungkin inilah alasannya. Penerimaan satelit pribadi tidak diperkenankan di China kecuali di wilayah lahan datar dan konsentrasi pada HDTV menjadikannya dua kali tidak biasa.



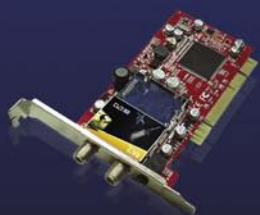
■ Dibeli dua hari yang lalu: antena baru 2,4 meter yang direncanakan oleh Applesat untuk dipasang dalam beberapa hari lagi. Antena piringan 1 meter telah terpasang dan diarahkan ke ASIASAT.



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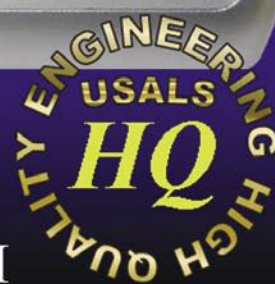
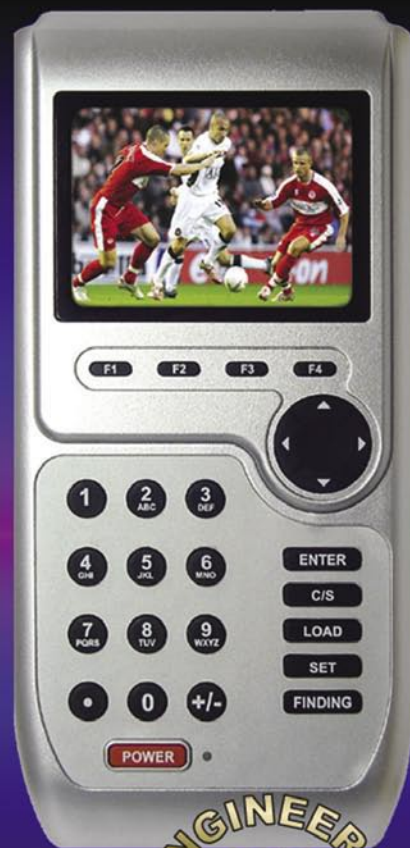
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■ Antena 60cm milik Applesat dengan tiga LNB yang menerima TELSTAR 18 di 138oBT, AGILA di 146oBT dan APSTAR 6 di 134oBT.

Pehobi HDTV ini menggunakan nama samaran "Applesat". Dia menjelaskan alasannya: "Pada usia 15 tahun saya mulai tertarik dengan penerimaan satelit. Pada saat itu China masih terisolasi dan penerimaan siaran asing membuka dunia baru bagi saya. Selanjutnya saya berpikir bahwa Bumi seperti buah apel dengan satelit yang terbang di sekelilingnya."

Orang tuanya tidak begitu menyukai hobi barunya ini, tetapi Applesat tidak terlalu begitu khawatir dan memulai penerimaan ASIATASAT 1 dengan antena 1,5 meter. Yaitu pada tahun 1992. Tiga tahun kemudian dia memperluas sistemnya dengan antena piringan 2,1 meter untuk APSTAR 1.

Pada bulan Januari 2009 dia pindah ke apartemen baru miliknya di bagian utara kota Beijing. Dia memilih apartemen ini dengan alasan: yaitu terletak di lantai sembilan dan langsung di bawah atap.



■ Applesat telah menyembunyikan antenanya dengan sangat baik pada bangunan apartemen modern ini: tidak terlihat dari bawah, antena tersebut terletak di balkon apartemennya di lantai sembilan.



■ Feedhorn ini dirancang khusus untuk antena offset dan dapat dikenali dari feedhorn berbentuk kerucut. "Feed untuk antena fokus normal (PFA) akan mengalami kehilangan banyak sinyal". Applesat menjelaskan.

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■ Dengan jendela di ruang keluarga yang menghadap ke selatan, Applesat memasang antena offset kecil yang diaturnya dengan menggunakan meter Trimax. "Saya sering melakukannya pada malam hari", kata Applesat, "ini adalah antena bermotor manual saya."

Sebagian besar hal ini melindungi dari pantauan curiga. "Anda hanya bisa memasang antena piringan secara sah di lahan terbuka untuk penerimaan dari CHINASTAR dengan saluran yang diacak dalam ABS-S", Applesat menjelaskan, "namun penerimaan pribadi di kota besar tidak diperkenankan."

Terdapat pengecualian bagi orang asing untuk memasang antena piringan di apartemen tertentu dan hanya di apartemen ini orang asing tersebut tinggal. Applesat yang kelahiran Beijing ini tidak bisa menggunakan alasan ini sebagai pengecualian, sehingga untuk alasan ini dia tidak menaruh perhatian. "Saya menyukai HDTV", kata Applesat, "dan inilah alasan kenapa saya ingin mengambil beberapa resiko." Mimpinya adalah suatu saat dia memiliki sebidang tanah miliknya sendiri di dekat Tembok Besar China sehingga dia bisa memasang antena satelit yang sebenarnya. "Namun peraturan yang ada sekarang tidak mengizinkan warga kota seperti saya ini untuk memiliki lahan di luar kota."

Hingga saat itu tiba, dia berhubungan dengan orang-orang yang berpikiran sama. Dia bertukar informasi tentang saluran HDTV baru melalui forum internet miliknya www.hdtvstar.cn; dia mendapat frekuensi transponder yang baru dari www.cnsat.net.



Bagaimana seseorang seperti Applesat mendapatkan produk satelit Beijing? Anda bisa menemukan toko peralatan satelit di kota-kota provinsi, namun Anda tidak bisa mendapatkannya di Beijing. "Saya banyak membeli peralatan saya melalui situs lelang di internet", ungkap Applesat, "Penggunaan kata 'satelit' tidak diperkenankan, sehingga Anda harus menggunakan istilah yang sama untuk menemukan produk seperti itu."

Applesat mengetahui bagaimana mengatasi masalah yang menghalangi dia untuk memperluas hobinya. Raknya telah terisi dengan lima receiver satelit serta TV layar-datar 32" HDTV. "Saya ingin sekali mengubah hobi saya ini menjadi pekerjaan", Applesat menjelaskan, "dan sepertinya hal itu akan terjadi." Energi yang diletakkan Applesat pada hobinya ini membuatnya menjadi suatu kepastian.

■ Applesat di depan rak dengan lima receiver, satu untuk sinyal HDTV terestrial dalam DMB-TH, satu receiver DVB-S2, dua receiver DVB-S dengan modul, dan satu receiver DVB-S FTA. "Saluran favorit saya adalah Luxe TV di ASIASAT 2, Fashion TV, Voom, National Geographic, History Channel, AXN dan ASN dari Measat; Applesat menjelaskan, "Saluran HD baru dari provider Skylife Korea baru saja dimulai di KOREASAT 3 di 11,900L dan 11,938L."

ECHOSTAR di Tenerife

Dalam TELE-satelit edisi 12-01/2009 kami menulis artikel tentang bagaimana Diego Fernando Sanchez Rosende mencoba menerima sinyal satelit yang berada di luar wilayah cakupan. Dia berhasil menerima beberapa satelit Amerika Utara hanya dengan antena piringan offset berdiameter 180cm.

Akan tetapi, tidak ada kenikmatan dalam penerimaan sinyal ini, karena hampir semuanya diacak. Kemudian Diego menemukan CBS-21 di ECHOSTAR 6A pada posisi 72,5° BB, di polarisasi vertikal 12,224 GHz dan mendapatkan bahwa siarannya tidak diacak. "Saya bisa menerima saluran ini dengan definisi tinggi dalam DVB-S2 dengan bagus." Sementara itu, bahkan lebih banyak saluran bergabung di CBS-21 dan Diego pun bisa menonton televisi AS di Eropa di Pulau Tenerife.

Dengan menggunakan spectrum analyzer dia mendata daftar transponder berikut yang bisa juga diterimanya:

DIRECTV 1R - ECHOSTAR 6 di 72,5° BB (DIRECTV USA - DISH NETWORK USA)

12,224; R; 20000; 5/6
12,239; L; 20000; 5/6
12,282; R; 20000; 5/6
12,340; L; 20000; 5/6

ECHOSTAR 4 - ECHOSTAR 8 di 77,0° BB (DISH NETWORK MEXICO)

12,239; L; 20000; 5/6

Selain dari kedua satelit ini Diego juga menerima sinyal dari ECHOSTAR di 61,5° BB dan AMAZONAS di 61° BB, tetapi dengan kekuatan sinyal yang lebih rendah yang tidak memadai untuk menghasilkan gambar yang jelas di layar TV.

Sekali lagi, contoh Diego secara jelas menunjukkan bahwa sinyal satelit juga bisa diterima di luar wilayah cakupannya. Adalah lebih baik melakukan percobaan, sehingga jika tersedia antena dengan ukuran yang memadai disertai pandangan yang tidak terhalang – secara ideal – suatu lokasi yang tinggi: semakin tinggi lokasi, semakin rendah interferensi sinyal dari transmisi terestrial. Diego tinggal di atas gunung, bagian belakangnya menghalangi seluruh sinyal dari utara. Tambahnya, lingkungan yang nyaris tanpa polusi membuatnya dapat menerima dengan jelas satelit Amerika Utara dan membuat situasi yang cukup unik di Eropa.

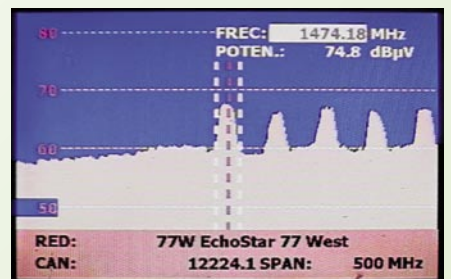
TELE-satelit selalu gembira menemukan penerimaan dari satelit yang 'tidak mungkin'. Jika Anda juga salah satu dari yang beruntung menerima sinyal yang seharusnya tidak bisa tersedia di lokasi Anda, maka hubungi kami di www.TELE-satellite.com/letter/



■ Penerimaan saluran FTA AS di Eropa: CBS-21 dipancarkan tanpa diacak dari ECHOSTAR 6A dan dapat diterima di Tenerife/Spanyol dengan antena Diego berdiameter 180cm.



■ Meter satelit milik Diego menunjukkan tabel NIT dari salah satu transponder yang diterima dari ECHOSTAR 6A.



■ Tampilan spektrum dari ECHOSTAR 6A di Tenerife.

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Available online starting from 29 May 2009



■ Elevasi yang rendah diperlukan untuk penerimaan satelit Amerika. Karena lokasi Diego yang cukup tinggi di gunung, dia bisa mendapatkan penerimaan meskipun dengan elevasi yang begitu rendah.

■ Diego fine-tunes his 1.8 m offset dish which he uses to receive american satellites in Tenerife.



■ Cakupan jauh dari jangkauan ke Eropa – begitu menurut teori. Di dunia nyata, penerimaan sangat memungkinkan di Eropa bagian Barat.

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240 CM



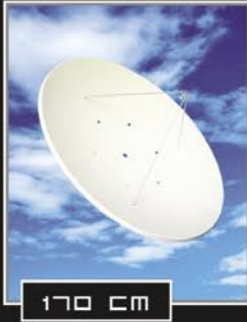
220 CM



210 CM



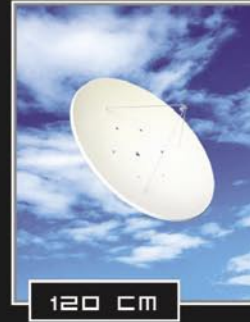
190 CM



170 CM



140 CM



120 CM



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New Satellites



Ariane 5 ECA lifts off from the ELA-3 launch zone at Europe's Spaceport in French Guiana

(Photo: ESA)

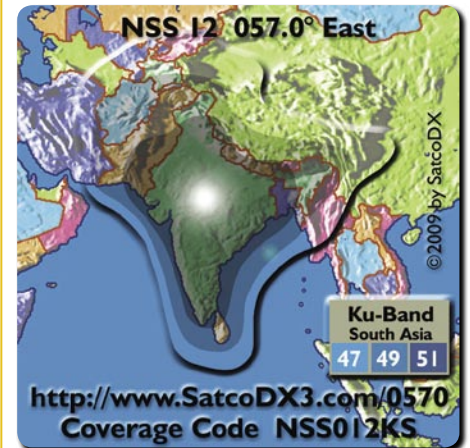
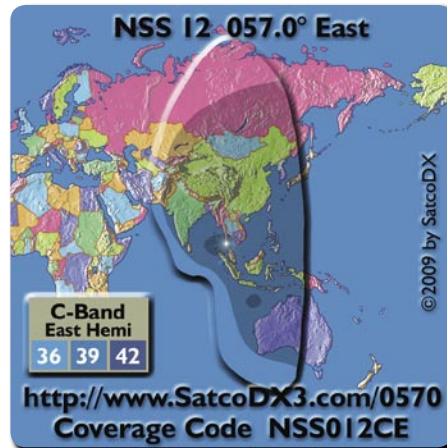


Edited by
Aleksandar Medic

NSS 12
July-September 2009

This state-of-the-art satellite is manufactured by Space Systems/Loral and will be located on 57° East over the Indian Ocean Region and will have 48 DTH Ku-band and 40 C-band (36 MHz equivalent) transponders with a lifespan of more than 15 years. NSS 12 will feature elaborate beam interconnectivity and C-/Ku-band cross-strapping. It will replace the NSS-703 satellite and will be used to enable communications services including VSAT Internet and GSM backhaul

services for telecommunications providers, broadcasters, corporations and governments in Europe, Africa, the Middle East, India and other parts of Asia.



AMAZONAS 2

September 2009

Amazonas 2 satellite, ordered by HISPASAT in 2007 and constructed by EADS-ASTRIUM, has 54 Ku- and 10 C-band transponders and an operational life of 15 years. After the launch from the Kourou space center in French Guiana by Ariane 5 rocket, it will be co-positioned with Amazonas 1 satellite on 299° East (61° West) and it will cover both North and South America since it has dedicated Ku-band beams for both continents and an American C band beam. This Eurostar-3000 based communication satellite will double HISPASAT's capacity in the Americas and provide a wide range of services including direct-to-home television. HISPASAT's new satellite will weigh 5.5 tons and use a solar panel of 39 meters providing over 14 kW of power. Total investment for this satellite is over 200 million euros.



INTELSAT 14

August-September 2009

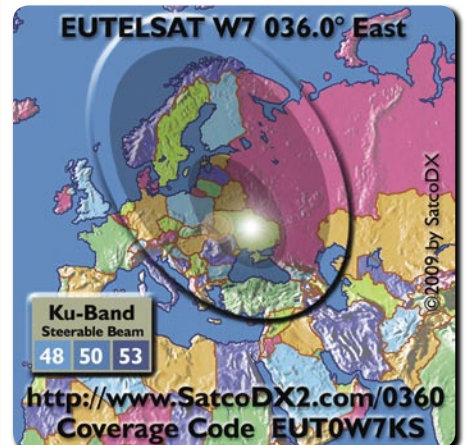
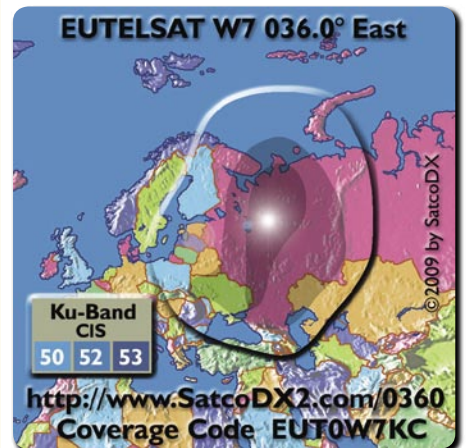
This satellite has been manufactured by Space Systems/Loral. It will be carried into space by Atlas V rocket and positioned on 315° East (45° West). With its 40 C- and 22 Ku-band transponders it will cover Europe, Africa and the Americas. INTELSAT 14 has a lifetime of 15 years and will replace INTELSAT 1R satellite. Defense's Internet Router In Space (IRIS) payload, which represents the next generation of space-based communications, since it will be able to merge communications received on various frequency bands and transmit them to multiple users based on data instructions embedded in the uplink, thus enabling U.S. and allied military forces with diverse satellite equipment to seamlessly communicate over the Internet from the most remote regions of the world. IP networking software for the router is provided by Cisco Systems.



EUTELSAT W7

July-September 2009

EUTELSAT W7 will occupy EUTELSAT's 36° East location, replacing EUTELSAT SESAT. This 70 Ku-band transponder satellite, built by Alcatel Alenia Space, will be launched by Zenit sea launch vehicle. 24 transponders will be assigned to DTH services on the fixed Russian/Ukrainian beam, 12 transponders will operate on the steerable beam focused on the Ukraine, while 27 transponders will be available for broadband services. The introduction of EUTELSAT W7 will almost triple EUTELSAT's capacity over Russia, the Ukraine and the CIS, making 36° East one of the hottest orbital positions. A widebeam coverage over Eurasia will be particularly suited to TV feeds, public/corporate telephony and data services, while the Central Asian beam will be targeted at the oil and gas sector for voice and data services using DVB-RCS applications with 90/120cm antennas. W7 weighs 5.6 tons, it has 12 kW payload power and a lifespan of 15 years.





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EUROPE

EUROPE

EUTELSAT HOT BIRD 9 ENTERS INTO SERVICE

Eutelsat Communications has announced the full entry into commercial service of its Hot Bird 9 satellite at 13 degrees East. Built by EADS Astrium and launched on 20 December 2008 by Arianespace, Eutelsat's new high-capacity broadcast satellite has a projected in-orbit life of more than 15 years. With the entry into service of Hot Bird 9, co-positioned with Eutelsat's Hot Bird 6 and Hot Bird 8 satellites, Hot Bird 7A can now be redeployed to 9 degrees East. Rebranded Eurobird 9A, the satellite will assume all broadcasts currently carried by the 20 transponders on Eurobird 9 and introduce 18 additional transponders at the 9 degrees East neighbourhood, which has seen the number of channels more than double in one year to almost 150. Released from this position, Eurobird 9 will continue its useful life in orbit at another location. Hot Bird 9 has a payload of up to 64 Ku-band transponders.

EUTELSAT HOT BIRD 10 SUCCESSFULLY LAUNCHED

Eutelsat Communications' Hot Bird 10 satellite was successfully launched on February 12 by an Ariane 5 ECA rocket from the European spaceport in Kourou, French Guiana. The EADS-Astrium built satellite will be deployed at the 13 degrees East orbital position, providing coverage of Europe, North Africa and the Middle East. It will have a lifetime in orbit of 15 years and is equipped with 64 Ku-band transponders in the frequency band 10.7-12.75 GHz. Prior to joining 13 degrees East HOT BIRD 10 will consequently be deployed to 7 degrees West to expand capacity at this key neighbourhood for broadcasting in the Middle East.

SES MOVES ASTRA 2C TEMPORARILY TO 31.5 DEGREES EAST

SES Astra has moved the Astra 2C satellite from 28.2 degrees East to the orbital position 31.5 degrees East to take over the mission of Astra 5A which is no longer in service. It will remain approximately there for one year. Meanwhile, the services transmitted via 28.2 degrees East will continue to be broadcast from the other satellites co-located at this orbital position. Astra 2C will be able to operate 24 BSS transponders at 31.5 degrees East, thereby continuing the commercialization of this orbital position. After the launch of Astra 3B in the fourth quarter of 2009 and its subsequent deployment, another in-orbit satellite will be moved to 31.5 degrees East, permitting the return of Astra 2C to 28.2 degrees East and to enhance capacity at this orbital position.

SES BOOSTS 23.5 DEGREES EAST ORBITAL POSITION

SES Astra has moved its Astra 1G satellite from 19.2 degrees East to 23.5 degrees East, where it joined Astra 3A and Astra 1E to serve Central Europe, the Benelux countries and German cable networks, as well as offering the high-speed broadband service Astra2Connect. The move follows the successful deployment of SES Astra's new satellite Astra 1M which replaces Astra 1G at 19.2 degrees East. Astra 1G adds 19 transponders to 23.5 degrees East increasing the number of available transponders on this orbital position to 56. By the end of the year,

the orbital position at 23.5 degrees East will be further strengthened by the launch of Astra 3B.

THALES ALENIA SPACE COMMISSIONED FOR W3C SATELLITE

Eutelsat Communications has announced that Thales Alenia Space has been commissioned to build the W3C satellite. Eutelsat will select the launcher for the satellite separately at a later stage. The rapid order of W3C follows Eutelsat's decision taken in January 2009 not to integrate the W2M satellite into its fleet following a major anomaly which occurred during its transfer from the location used for in-orbit tests to its operating position at 16 degrees East where its mission was to replace well in advance Eutelsat's W2 satellite. Scheduled for launch in third quarter 2011 and equipped with 56 transponders, W3C will be co-positioning with Eutelsat's W3A satellite will expand capacity at 7 degrees East from 44 to 70 transponders.

EUTELSAT W2A IN ORBIT

The W2A satellite of Eutelsat Communications was successfully lofted into orbit on April 3 by a Proton Breeze M rocket supplied by ILS. Designed to replace Eutelsat's W1 satellite, W2A's payload of up to 46 Ku-band and 10 C-band transponders will almost triple capacity at one of the Group's most established neighbourhoods. Up to 46 Ku-band transponders, depending on operations, will be connected to a wide footprint of Europe, the Middle East and North Africa, and a second beam over southern Africa and Indian Ocean islands. Ten C-band transponders will provide coverage of Africa, extending east to central Asia and west to Latin America. Services in the S-band will enable Solaris Mobile to deploy mobile video broadcasting applications across Europe for a host of mobile devices including phones, PDAs, iPods, games consoles and laptops. The S-band will also be able to support the deployment of mobile interactive applications of particular benefit for the transport and automotive sectors.

SATELLITE OPERATORS TO GET S-BAND RADIO RIGHTS

Two European satellite companies are expected to be awarded in April the rights to part of the radiofrequency spectrum that could be used to create new Europe-wide mobile phone services. Inmarsat and Solaris Mobile, a joint venture between SES Astra and Eutelsat, are expected to be given 18-year rights to S-band radio spectrum in 27 countries across Europe, according to a report in the Financial Times. Two other companies - ICO Global Communications and TerreStar - were also in the running. The European Commission has opted to pool the S-band licences from all its member states, and award them in one block.

BULGARIA

VESTITEL SELECTS ORCA IPTV SOLUTION

Bulgarian triple-play operator, Vestitel BG, has selected Orca Interactive to supply their RiGHTv IPTV middleware platform to underpin their new model based IPTV service. The IPTV middleware will be deployed to replace the existing solution that is powering Vestitel's current IPTV service and will be the basis for their Partnership model - to which multiple Bulgarian operators have signed up - that will go live at the end of April 2009.

CROATIA

T-HT TOPS 150.000 SUBSCRIBERS FOR IPTV SERVICE

T-Hrvatski Telekom (T-HT), owned by Deutsche Telekom, has passed 150.000 subscribers for its IPTV service MAXtv, as well as commercially launching HD services on the platform in April. The basic HD service comprises the channels National

Geographic Channel HD, Eurosport HD, History HD, Voom HD, Luxe TV HD, Melody Zen HD and German music channel Anixe HD. Subscriptions to the HD service are available for HRK 49 (EUR 6.60) per month to users who sign up for 12 months.

CZECH REPUBLIC

TELEFONICA O2 ENDS 2008 WITH 115.000 IPTV SUBSCRIBERS

Telefónica O2 ended 2008 with 115.000 subscribers for its IPTV service O2 TV, compared to 108.061 at the end of last September. O2 TV offers up to 80 linear channels, with premium offerings provided by HBO and Cinemax, as well as delivering a VOD service, which has on-demand content deals with a number of Hollywood studios.

FRANCE

ORANGE WITH 1.7 MILLION IPTV SUBSCRIBERS

Orange reported a 66% growth in pay-TV customers across its IPTV and satellite platforms in Europe last year, rising from 1.2 million at the end of 2007 to 2.1 million by the end of 2008. The France Telecom-backed company had 1.9 million subscribers in France, out of which with 201.000 subscribing to the DTH service and around 1.7 million to the IPTV service. Domestic VOD downloads more than doubled, rising from 5.1 million in 2007 to 12.1 million in 2008. Furthermore, the recently-launched Orange sport channel and Orange cinema series channels had 130.000 subscribers by the end of 2008.

GERMANY

FIVE MILLION IPTV SUBSCRIBERS EXPECTED BY 2013

Consulting company Detecon International expects that Germany will cross the threshold of 5 million IPTV subscribers by 2013. The prediction is based on current analyses of subscriber figures for the largest German and foreign IPTV providers. One reason given for the predicted growth is that German IPTV providers have readjusted their business models by adding integrated and flexible products and emphasising more strongly the features of IPTV which set the service apart from traditional broadcasting and Web-to-peer or peer-to-peer TV programming, which is also Internet-based.

DT REDUCES IPTV PRICES BY 10 PER CENT

Deutsche Telekom has cut the subscription fees for its IPTV service T-Home Entertain by up to 10%, as part of an initiative to reach 1 million triple-play subscribers by the end of this year. The Comfort, Comfort Plus and Premium packages have each seen their monthly rates cut by around €5 per month, with the cheapest package now starting at €44.95 per month, and the new prices will apply to all new contracts. The price cut comes as DT revealed that it is aiming to pass 1 million IPTV customers by the end of this year.

GREECE

OTE LAUNCHES IPTV SERVICE

OTE has commercially launched its IPTV service, conn-x TV, which is initially available to customers in the major urban areas of Attica (including Athens), Thessaloniki, Patras, Larissa and Iraklion (on the island of Crete).

IRELAND

MAGNET SELECTS IPTV MIDDLEWARE FROM DREAMPARK

Dreampark, one of the leading IPTV middleware providers on the European market, announced its first customer in Ireland as Irish IPTV and

ISP provider Magnet Networks has upgraded their existing middle-ware solution to Dreampark's Dreamgallery, further strengthening the company's position as the leading IPTV middleware provider in Europe.

ITALY

TELECOM ITALIA ADDS MEDIASET PREMIUM CONTENT

Telecom Italia has reached an agreement with Italian private broadcaster Mediaset to bring Mediaset Premium content to Alice Home TV. Telecom Italia's IPTV platform will feature new cinema and TV movies, TV serials, cartoons and TV premieres, as well as more Italian football content. Alice Home TV subscribers can now access Premium Bouquet package channels such as Joi, Mya, Steel, Cartoon Network, Hiro, and a 24-hour channel with live coverage of the current Italian Big Brother series. In addition, the Premium Calcio package offers live football coverage of all Serie A TIM matches, as well as top UEFA Champions League matches.

LATVIA

IPTV SUBSCRIBERS QUADRUPLE IN 2008

Lattelecom reported a fourfold increase in subscribers to its IPTV service Lattelecom TV during 2008 and also recently secured the rights to operate an MPEG4-based DTT service in the country. Although it has not revealed subscriber figures for its IPTV service, launched in April 2007, the company also reports that income from interactive TV services increased by 517% in 2008. Lattelecom recently started expanding its new FTTx-based "Future Network", which will deliver Internet speeds of up to 100 Mbps, with customers in Zolitūde (a suburb of Riga, the capital of Latvia) already receiving these speeds. In the future, Internet speeds will be increased to 10 Gbps, and the new network is to be expanded to the neighbourhood of Ķengarags (another suburb of Riga), and then to other parts of the capital and across other major cities in Latvia. The operator aims to offer DTT services on a commercial basis and throughout Latvia from this autumn.

POLAND

DIALOG TELECOM SELECTS SCOPUS VIDEO SOLUTION

Dialog Telecom has launched its new IPTV service using a video distribution network based on a video networking solutions from Scopus Video Networks. At the core of Dialog's new IPTV video distribution network is the Scopus Eldorado NMS (Network Management System), which offers redundancy and a centralised view of the network to simplify troubleshooting and help the operator's engineers maintain consistent, high-quality transmissions for 24 channels. Scopus IRD-2900 series integrated receiver decoders receive satellite video feeds carrying Polish and international content, while the company's UE-9000 encoders provide local content encoding for distribution of the video to viewers' homes over IP.

PORTUGAL

PORTUGAL TELECOM WITH 312.000 IPTV SUBSCRIBERS

Portugal Telecom added 110.000 new customers to its IPTV service Meo in the fourth quarter of 2008 to reach 312.000 by year-end. The success of its TV offer can be seen in the decelerating loss of its fixed-line subscribers and in the growth of customers for its flat fee broadband services, with around 50% of new IPTV subscribers in 2008 being entirely new customers for Portugal Telecom. Furthermore, the operator reports a 42.9% penetration rate for its IPTV service within its ADSL customer base as a whole. Portugal Telecom also reports that VOD has proved to be a key asset, with 45% of Meo customers paying to access the VOD library in 2008, watching an average of 2.8 movies per month.

RUSSIA

COMSTAR UTS LAUNCHES IPTV IN MOSCOW

Comstar UTS has launched IPTV services in Moscow via its subsidiary Moscow City Telephone System (MGTS). The new dual-play broadband internet and IPTV service is being offered under the name Internet+TV and offers up to 80 channels plus VOD, radio and interactive services such as karaoke-on-demand.

SCANDINAVIA

TELIASONERA WITH 477.000 IPTV SUBSCRIBERS IN NORDIC REGION

TeliaSonera arrived to 477.000 IPTV subscribers across all markets at the end of 2008, having added 99.000 customers during the year. The operator reached 324.000 IPTV subscribers in Sweden at year-end 2008, adding 20.000 during the 12 month period, with an estimated

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70% of its Swedish IPTV subscribers being paid customers. Lithuanian subsidiary TEO adding 49,000 subscribers last year to reach 67,000 by December 2008, while its Estonian subsidiary Elion finished 2008 with 75,000 IPTV customers.

SLOVENIA

TELEKOM SLOVENIJE SELECTS VERIMATRIX SOLUTION

Telekom Slovenije has selected the Verimatrix Video Content Authority System (VCAS) for IPTV to protect VOD and live broadcast premium content. The operator's IPTV service, known as SiOL TV with 80,000 subscribers, currently maintains the majority market share in Slovenia according to the Agency for Post and Electronic Communications (APEK). Telekom Slovenije's subsidiary, Planet9, is responsible for the creation and support of new platforms for mobile, Web and IPTV media, as well as the production of content.

SPAIN

TELEFONICA TOPS 2.2 MILLION SUBSCRIBERS

Telefónica ended 2008 with 2.2 million pay-TV subscribers across all platforms and markets, adding 519,000 customers during the year. The subscriber base of the IPTV service Imagenio increased 19.8% year-on-year to reach 612,494.

HISPASAT TESTING 3D TV

Spanish satellite operator Hispasat has launched 3D TV trials, through a project known as "3D Live". The project allows companies to study the

way that 3D TV is broadcast though the satellite network, and the problems associated with the transmission and compression of 3D images by different formats, such as IPTV and satellite. The Spanish Ministry of Industry, Tourism and Commerce is co-financing the 3D TV project.

SWEDEN

TELIA TEAMS UP WITH CANAL+ FOR LIVE FOOTBALL

Telia has partnered with Canal + to offer its IPTV subscribers the possibility to watch all matches of the highest Swedish football league Allsvenska. Telia Digital TV customers can watch all matches live or access the match library with their remote control if they subscribe to the Canal + Season Ticket service. The service costs SEK 199 a month and offers access to five live football channels.

SWITZERLAND

SWISSCOM LAUNCH FIBRE-OPTIC OFFER IN ZURICH

In April, Swisscom launched a trial offering for the new high-speed access to the fibre-optic network. The bundled offerings allow simultaneous use of up to three HDTV channels, high speed internet with transmission speeds of up to 50 Mbps (downstream) and 10 Mbps (upstream) and telephone services. The trial offerings will initially be available to customers in Zurich whose homes have already been connected to the fibre-optic network. The offerings will also be available in other cities in 2009, including in French-speaking Switzerland. An initial commercial offering is

expected at the beginning of 2010 at the latest. Swisscom has seen the number of subscribers to its IPTV service Bluewin TV double in 2008, rising from 59,000 to 118,000 during the 12-month period.

TURKEY

TURK TELECOM SELECTS ENVIVIO FOR IPTV PROJECT

Turk Telekom is to use Envivio's 4Caster C4 SD and 4Caster HD30 HD MPEG-4 AVC encoders and the 4Manager NMS, to deliver standard and high definition channels for its new IPTV service. Envivio's 4Caster HD30 delivers high quality, high definition encoded content at less than half the bit rates required by MPEG-2. The company's Convergence Series architecture allows MPEG-2 content downlinked from satellite to be delivered to the compression system directly over a local IP network..

UNITED KINGDOM

BT VISION SURPASSES 398,000 SUBSCRIBERS

BT passed 398,000 subscribers for its IPTV service BT Vision in the fourth quarter of 2008, up from 340,000 subscribers at the end of the previous quarter, and saw an increasing number of its new customers subscribing to one or more of its on-demand programming packages, according to the company.

CHANNEL 4, FIVE BID FOR HD DTT CAPACITY

Channel 4 and Five have both submitted proposals to UK regulator Ofcom for the UK's final DTT terrestrial high-definition slot of the Freeview platform. Channel 4 is proposing using the slot for an HD ver-

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sion of its Film4 channel, which would broadcast 17 hours a day, ceding four hours a day to S4C, which would broadcast a children's TV block in English and Welsh. Five, meanwhile, is proposing simulcasting of its existing terrestrial channel between 18:00 and 23:00, while from 05.00 to 17.00 it would offer an HD service "supplied by another broadcaster."

BSKYB AIRS KEANE CONCERT IN HD

BSkyB became the first UK broadcaster to air a live concert in 3D during April. The live performance by rock act Keane was transmitted using BSKyB's satellite network and existing Sky Plus HD set-top boxes. A specially invited audience watched the transmission on a 46-inch HD screen at London's Abbey Road studios next door to the live gig.

NORTH AMERICA

LATENS AND MINERVA EXTENDS IPTV PARTNERSHIP

Latens and Minerva Networks have renewed and extended their partnership to provide IPTV solutions in the Americas. To date, both companies have been highly successful in offering their joint solution combining Latens conditional access and Minerva's middleware to operators in North and South America. The renewal of this agreement provides continued and new business growth for both companies. Under the terms of the partnership, Latens and Minerva will also collaborate on further integrations with market leading set-top box and VOD vendors to ensure operators have the best options for their IPTV network.

CANADA

MTS LAUNCHES HDTV SERVICE IN WINNIPEG

MTS Allstream has launched MTS HDTV, the next generation of HDTV, PVR, improved guide features and other TV advancements to residents in Winnipeg. MTS is the first company in Canada to launch a digital TV service that includes combined technology from Alcatel-Lucent and the Microsoft Mediarem IPTV software platform. Along with an extensive line-up of over 250 digital TV and music channels and features like VOD, the new services include 30 HDTV channels, with more channels to come in 2009.

UNITED STATES

UNIVISION AND AT&T REACH IPTV DEAL

Univision Communications and AT&T have signed a multi-year content agreement as part of the AT&T U-verseSM TV channel line-up. The agreement includes continued carriage of Univision's owned and operated broadcast stations; affiliated stations owned and operated by Entravision Communications Corporation, Equity Media Holdings Corporation, Calipatria Broadcasting Company, and JKB Associates; and distribution of the cable network, Galavisiyn, and the network feeds for Univision and TeleFutura.

AT&T OFFERS 100 HD CHANNELS

AT&T is now offering at least 100 HDTV channels in every market it offers its IPTV service U-verse, having recently expanded its line-up with HD channels from Disney-ABC-ESPN Television, including ABC Family HD, Disney Channel HD, Disney XD HD, ESPNNews HD and ESPNU HD. AT&T U-verse has two HD subscription options - the U450 programming package costs US\$ 10 per month, while the HD Premium Package offers even more HD channels for an extra US\$ 5 per month. Most packages include the HD-ready Total Home DVR, which enables users to record HD programmes on a single DVR and stream them to any connected TV.

VERIZON OFFERS 110 HD CHANNELS IN CALIFORNIA

Verizon has added 18 new channels to market areas in California including several new HD channels, bringing the total to 110 HD channels. In comparison, DirecTV provides 104 HD channels. The channel counts do not take into consideration HD VOD, of which both companies offer a substantial amount of HD titles in their libraries.

TIME WARNER REACHES 100 HD CHANNELS IN NYC

Time Warner Cable has arrived to 100 HD channels in their New York City market areas. The company now offers 65 HD channels in its standard high-definition package, and 35 HD channels in its premium HD line-up.

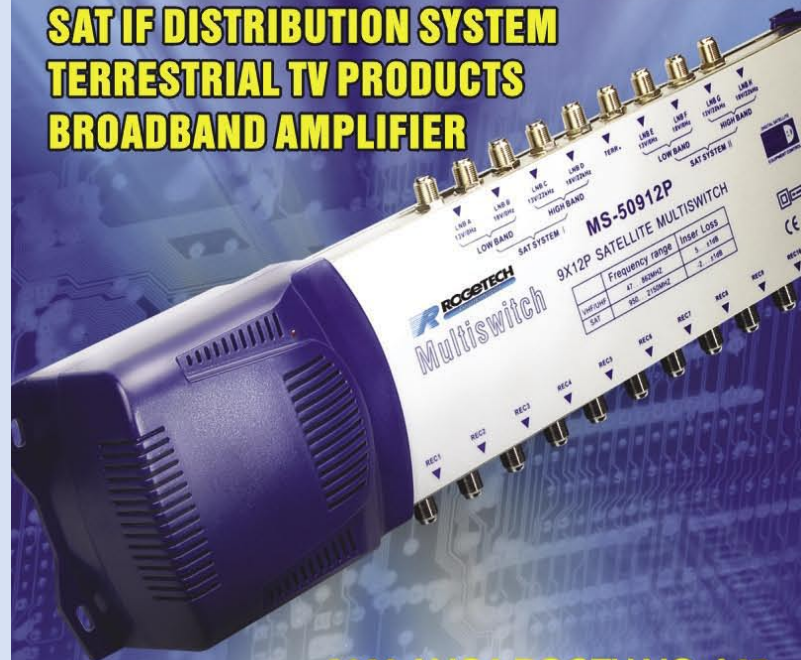
NRTC AND NTCA OFFER MORE THAN 80 HDTV CHANNELS

The National Rural Telecommunications Cooperative (NRTC) and the National Telecommunications Cooperative Association (NTCA) have announced that telecom operators now have the opportunity to deliver more than 80 HD channels. Recently, NRTC has more than

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doubled its HD offering and has created programming packages that enable rural operators to derive incremental revenue. The HD offering includes premium services like HBO and Starz; the entire ESPN HD line-up; and services from Disney, Discovery Communications, Lifetime Networks, Smithsonian and the Tennis Channel.

LIBERTY TO INVEST US\$ 530 MILLION IN SIRIUS XM RADIO

Liberty Media Corp has announced it will invest US\$ 530 million in Sirius XM Radio, fending off a rival bid from EchoStar. Liberty Media, owner of DirecTV, will receive a 40 percent stake in Sirius XM and seats on its board of directors in exchange for helping the satellite radio firm avoid bankruptcy. Liberty Media and EchoStar had been locked in a battle for Sirius XM. Sirius XM offers hundreds of channels of music, sports, news, talk, entertainment, traffic and weather.

ECHOSTAR LAUNCHES CONVERSION PROGRAM FOR IPTV SERVICES

EchoStar Satellite Services has announced the company's IP-Prime Conversion Program, designed to provide continued delivery of video transport services for operator IP head end facilities across the United States. Commercial transport provider IP-Prime has previously announced it will discontinue its video transport service to head end facilities by July 31. EchoStar's ViP-TV transport service delivers a secure, MPEG-4 encoded IP stream of approximately 250 channels of popular, broadcast quality TV channels from a satellite located at 85 degrees West.

SATELLITE EXPORT RULES DAMAGING INDUSTRY

Satellite export control rules are hampering U.S. national security and economic interests, and must be updated to protect the U.S. space industrial base, AIA President and CEO Marion Blakey said in April in written testimony before the House Foreign Affairs Terrorism, Nonproliferation and Trade Subcommittee. U.S. market share for commercial satellites dropped from 73 per cent to 27 per cent after legislation passed in 1998 to control commercial satellites as military items.

LATIN AMERICA

BRAZIL

TELEFONICA LAUNCHES NEW IPTV SERVICE

Telefonica Brasil has launched an IPTV service dubbed xTreme which is initially available in the 26 districts of Sao Paulo. A basic package costing BRL 240 (USD 105) includes an 8 Mbps internet connection and 80 TV channels, while the most expensive service costs BRL 337 for a 30 Mbps connection and 120 TV channels.

DOMINICAN REPUBLIC

CODETEL, ALCATEL-LUCENT TO LAUNCH IPTV SERVICE

Compania Dominicana de Telefonos (Codetel) has launched a nationwide IPTV offering, providing subscribers with TV, VOD and other multimedia content services. Enhanced features include picture

in picture, karaoke entertainment and digital video recording. The new IPTV service is supported by Alcatel-Lucent's end-to-end IPTV solution, including the Microsoft Mediaroom IPTV and multimedia software platform. The service complements Code-tel's existing voice and broadband Internet access service, enabling the operator to offer one of the first complete triple-play packages in the Caribbean.

ASIA

AZERBAIJAN

AZERBAIJAN TENDERS SATELLITE SYSTEM

The Ministry of Communications & Information Technologies of Azerbaijan is holding a closed tender procedure for development of a national satellite. According to Communications Minister, Ali Abbasov, the tender already involves five companies from Russia, USA and France. Azerbaijan plans to put into operation its first satellite in 2010 and the second one in 2011. The satellite project is said to be worth some US100-170 million.

CHINA

SHENZHEN TO BUILD 4-5 SATELLITES A YEAR

Shenzhen Aerospace Spacesat is building a new establishment in Shenzhen which, once completed, will develop six to eight types of satellites and produce four to five satellites every year. The satellites will be used for global navigation, telecommunications, remote sensing and space exploration. The



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enterprise was jointly founded by China Spacesat, Harbin Institute of Technology and Shenzhen Aerospace Science and Technology Research Institute.

INDIA

ACT LAUNCHES IPTV SERVICE IN BANGALORE

ACT Television has launched its IPTV services in Bangalore making it the first service provider to offer such services in the state. The company technology partners for the initiative include Cisco, Verismo, Vermatrix, MRO-Tek, Scopus, Oracle and E&Y. The company is targeting a subscriber base of around 1 lakh for its IPTV services in Bangalore in the next 18-24 months. Its VOD service has a movie library of around 4,500 movies.

SUN DIRECT LAUNCHES HDTV SERVICE

DTH provider Sun Direct has launched a HD service in India. Sun Direct, an 80:20 JV between the Maran family and Malaysia's Astro Group, has signed up over 3 million subscribers in March 2009 to reach the 3.1 million mark. The service launched with two channels, one each for Tamil movies and Telugu movies - at a cost of Rs 10,000 per subscription, before expanding to an 8-channel service. Korea's Samsung is providing the HD set-top boxes.

INDONESIA

TELKOM PREPARES NETWORK FOR IPTV

Telekomunikasi Indonesia (Telkom) is setting aside IDR 1.5 trillion (US\$ 127.94 million) to develop its fixed-line network in preparation for the launch of IPTV services this year, according to local media reports. According to Telkom CEO, Rinaldi Firmansyah, the allocated funds do not include the development of content for the new IPTV service, which will cost an estimated US\$ 10-15 million. The service will be initially launched in six big Indonesian cities, including Jakarta, Bandung and Surabaya.

IRAQ

KALIMAT TELECOM TEAMS UP WITH PCCW FOR IPTV

Kalimat Telecom has signed a US\$ 25 million agreement with Hong Kong-based operator PCCW to form a 50/50 joint venture for the launch of IPTV and mobile TV services in Iraq and Kuwait, according to local media reports. Under the agreement, Kalimat will provide the network and carrier services, while PCCW will run the operations and provide the content. The service is expected to offer a wide choice of channels, VOD and music-on-demand to Kalimat Telecom subscribers, and will go live in the fourth quarter of this year or early 2010, according to Wilson Varghese, CEO of Kalimat Telecom.

MALAYSIA

TELEKOM MALAYSIA TO LAUNCH IPTV IN Q4 2009

Telekom Malaysia is planning to launch commercial IPTV services in the fourth quarter of this year under the name Hypp.TV, following successful trials delivered to 10,000 homes in the country, according to daily "The Star". Under the trials, Hypp.TV is available in some parts of the country for MYR 10 (US\$ 2.81) per month. Telekom Malaysia is currently in the process of building itself a High-Speed Broadband, which will receive investments of MYR 11.3 billion. According to Jeremy Kung, Vice President of Telekom Malaysia, 30 channels will be offered on the Hypp.TV platform and the plan is to increase that to about 50 by year-end.

SINGAPORE

SINGAPORE WITH 12 HD CHANNELS

Singapore has adopted high-definition television within a short span of three years, with viewers already having a choice of 12 channels featuring content ranging from sports to documentaries to movies. This HD fare is offered across three platforms: free-to-air broadcaster MediaCorp, cable TV operator StarHub and the IPTV service of SingTel's mioTV.

SOUTH KOREA

SK BROADBAND SELECTS ALCATEL-LUCENT FOR IPTV SERVICE

SK broadband (formerly known as Hanaro Telecom) has selected Alcatel-Lucent to supply and maintain its IP service routing solution to support the operator's real time IPTV service. Alcatel-Lucent's IP/MPLS technology will enable SKbroadband to deliver advanced broadband services including real time IPTV services, HDTV, VOD, VoIP and high-speed Internet access, all with superior service quality.

TAIWAN

CHUNGHWA TELECOM WITH 676,000 IPTV SUBSCRIBERS

Chunghwa Telecom had 676,000 subscribers to its IPTV service Multimedia-on-Demand (MOD) by the end of 2008, up 71.4% from one year previously. Chunghwa Telecom has recently indicated that it is preparing to launch a new version of its Multimedia-on-Demand service, for which it has selected content management solutions from Harmonic, a new user interface from UK firm ANT, and optical network components from Ericsson and Alcatel-Lucent.

THAILAND

THAICOM TO RENT SPACE ON FOREIGN SATELLITE

Thaicom has permission to lease a foreign satellite's transponder capacity, provided it pays the same concession fees, Thai Information and Communications Technology Minister Ranongruk Suwanchawee decided. Thaicom has been operating the Thaicom 1, 2 and 5 broadcasting satellites as well as the iPSTAR broadband satellite. With the lifespan for Thaicom 1 ending in several months, the company has been gradually moving its customers to Thaicom 5. And with Thaicom 2 due to expire next year, the company plans to charter a foreign satellite's transponder capacity.

UNITED ARAB EMIRATES

E-VISION LAUNCHES HDTV SERVICE

Etisalat pay TV division E-Vision has launched the UAE's first full HDTV service. The service initially broadcasts UAE premier league football matches produced in conjunction with Abu Dhabi Media Company's Live outside broadcast production division. E-Vision also announced the launch of a PVR functionality for its new HD set top box. The STB will enable viewers to record up to 200 hours of content to be viewed on-demand.

AFRICA

EGYPT

NILESAT AND EUTELSAT TO DEVELOP 7 DEGREES WEST

Nilesat and Eutelsat Communications have signed a new strategic agreement to pursue the develop-

ment of the 7 degrees West orbital position which is used by both companies for satellite broadcasting across the Middle East; the Gulf countries and North Africa. This new phase of collaboration between Nilesat and Eutelsat follows the recent successful launch of Eutelsat's Hot Bird 10 satellite that will first be commercialised at 7 degrees West under the name Atlantic Bird 4A. The collaboration between both operators will move into a third phase with the deployment in mid-2010 of the Nilesat 201 satellite procured by Nilesat. This will be followed in 2011 by the arrival of Atlantic Bird 4R.

NIGERIA

CHINA TO REPLACE FAILED SATELLITE

China Great Wall Industries Corporation, the firm that constructed Nigeria's first communication satellite, Nigcomsat1, plans to replace the failed satellite built at the cost of US\$ 200 million, according to local daily "The Day". According to the managing director of Nigerian Communications Satellite (NigComsat), Ahmed Rufai, the replacement will be at no cost to the Nigerian government. He added that the Chinese firm was responsible for management of the failed satellite when it crashed out of its orbit in November 2008, it was obliged to replace the facility. The replacement Nigcomstar-1R will be launched from Sichuan province in south-western China in the fourth quarter of 2011, according to Yin Liming, president of China Great Wall Industry Corp.

WORLD

HDTV IN 66 MILLION HOMES BY END OF 2009

A new research from Informa Media and Telecoms forecasts 214 million HD homes, 17% of TV households globally, by 2013. At the end of 2008, about 4% of global TV homes actively watched HD, but this is predicted to increase to 5.5%, or 66 million homes, by year's end. About 157 million households worldwide are expected to have HD-enabled sets by the end of 2009, bringing global penetration to 10% of TV households. Asia Pacific territories are currently the biggest market, with 7.4 million active HD homes, due to grow to 54 million by 2013. Europe, the Middle East and Africa are forecast to grow from 200,000 homes in 2008 to 11.6 million homes by 2013. In North America, growth is set to more than treble from 30 million in 2008 to 96 million in five years.

TELSTAR 11N BEGINS COMMERCIAL SERVICE

Telesat has begun commercial service on its state-of-the-art Telstar 11N satellite. Telstar 11N is located at 37.5 degrees West and utilizes 39 high powered Ku-band transponders to support a wide range of video and data applications in North America, Europe and Africa and across the Atlantic Ocean. Telstar 11N is the first satellite to provide Ku-band coverage of the Atlantic Ocean from the Arctic Circle to the equator.

IPTV SUBSCRIBERS REACH 21.7 MILLION IN 2008

There were 21.7 million subscribers to IPTV services worldwide at the end of 2008, an increase of 63% compared with the end of 2007, according to research conducted by analysts Point Topic. Western Europe remains the largest single region for IPTV, and France is by far the largest market, representing over half of Western Europe's 10.2 million subscribers. For its part, Informa Telecoms & Media claims that the number of IPTV subscribers reached 19.9 million.

Exhibition Preview

- **25 - 27 May 2009: MECOM 2009**
Middle East Communications Exhibition, Forum, TV
Abu Dhabi National Exhibition Centre, Abu Dhabi, UAE
www.mecomexpo.com



- **26 - 28 May 2009: ANGACABLE 2009**
Tradefair for Cable, Broadband and Satellite
Koelnmesse, Cologne, Germany
www.angacable.com



- **16 - 19 June 2009: CommunicAsia 2009**
20th International Communications and Information
Technology Exhibition & Conference
Singapore Expo, 1 Expo Drive, Singapore 486150
www.communicasia.com



- **26 - 28 August 2009: SET 2009**
18th Broadcast & Cable International Fair
Centro de Exposições, Rod. dos Imigrantes
04329-900 São Paulo (SP), Brasil
www.broadcastcable.com.br



- **11 - 15 September 2009: IBC 2009**
Latest technology and foremost business ideas in
broadcasting and media
RAI, Amsterdam, The Netherlands
www.ibc.org

- **6 - 11 October 2009: CeBIT Eurasia**
ICT Trade Show
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İstanbul, Turkey
www.cebitbilisim.com



- **7 - 9 October 2009: SCaT India**
Tradeshaw Of The Indian Cable & Satellite Television Industry
World Trade Center, Cuffe Parade, Mumbai, India
www.scatmag.com/scatindia/



- **21 - 23 October 2009: EEBC 2009**
7th Eastern Europe Exhibition and Conference in
Telecommunications and Broadcasting
Exhibition Centre "KyivExpoPlaza", Kiev, Ukraine
www.eebc.net.ua



TELE-satellite Deadlines

Editorial Deadlines, Magazine Publishing Dates

Number	Issue	Deadline	Hardcopies	Available Online
#212	08/2009	5 June 2009	17 July 2009	31 July 2009
#213	10/2009	7 August 2009	18 September 2009	2 October 2009
#214	12/2009	2 October 2009	13 November 2009	18 December 2009
#215	02/2010	4 December 2009	15 January 2010	29 January 2010
#216	08/2010	2 April 2010	14 May 2010	28 May 2010

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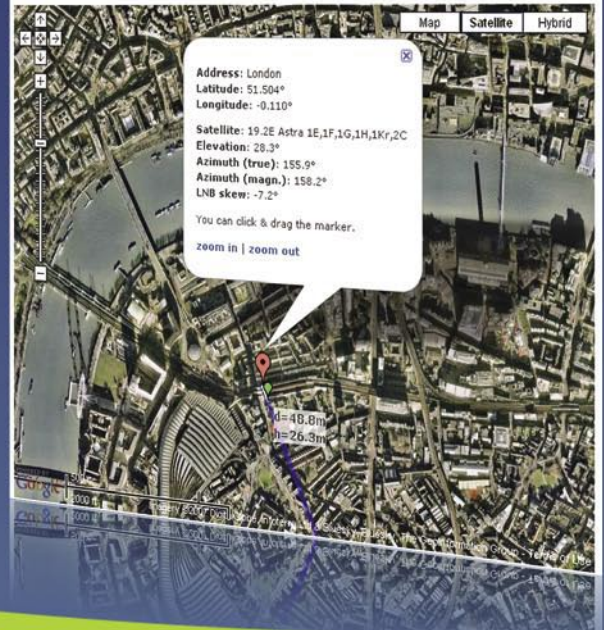
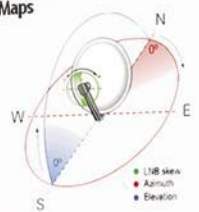
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13.0E Hotbird 6,7A,8
19.2E Astra 1E,1F,1G,1H,1Kr,2C
42.0E Turksat 1C, 2A
16.0E Eutelsat W2
26.0E Badr-2,3,4/Eurobird 2
5.0E Sirius 2,3
5.0W Atlantic Bird 3
7.0W Nilesat 101,102, Atlantic Bird 4
1.0W Intelsat 10-02

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



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Satelliten-Technik

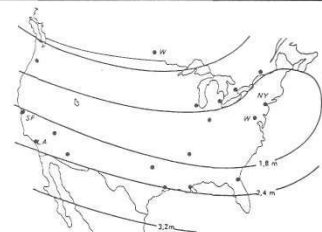
Transpondermarkt

Deutsche Programme mit PAS 1 nach Amerika

Mehrere Millionen Deutschstämmige und deutschsprachige Amerikaner können über den Satelliten PAS 1 ohne weiteren Umweg direkt erreicht werden. Bislang gibt es in den USA nur stundenweise P-Programme in deutscher Sprache.

PAS 1 bietet für den Zuschauer Raum der USA sowohl Transponder m 4 wie im 12 GHz Band an. Während für die Kanäle im 4 GHz Band Empfangsspiegel mit durchschnittlich 3 Meter notwendig sind, genügen für die Kanäle im 12 GHz Band Spiegel mit 1,2 Meter Durchmesser. Durch die kürzlich erfolgte Einigung zwischen INTEL-SAT, Bundespost und PanAmSat kann der Up-Link zum Satelliten 3rekt aus der BRD erfolgen.

Für die USA stehen die folgenden Sendefrequenzen zur Verfügung: 11.740, 11.820 und 11.900 GHz (Amerikanisches Ku-Band).



Ausleuchtzone von PAS 1 für die USA im 11 GHz Band

Satelliten Markt

EchoStar SR-5500 Receiver

Neu im Vertrieb von Werbeck, Düsseldorf, ist der Receiver/Positioner EchoStar 5500. Das Gerät bietet 100 Programmplätze, On-Screen-Graphics, Kindersicherung und einen Timer für Videorecorder. Im Tonbereich bietet der Receiver einen Audio-Suchlauf und die Möglichkeit, 50 Audioprogramme abzuspeichern. Das Gerät ist stereotauglich.

Alle europäischen Satelliten und Programme sind vom Werk aus vorprogrammiert. Bei Eingabe des gewünschten Senders wird automatisch der richtige Satellit angesteuert.

Der EchoStar 5500 ergänzt die Reihe der Satelliten-Receiver dieses Herstellers. Weitere bekannte Geräte sind der EchoStar 4500 und der SR 1000 E. Daneben bietet Echosphere International, die Mutterfirma, Downconverter, Feed, Kabel, Spiegel und die beim Satellitenempfang benötigten Kleinteile an.



Der neue Receiver/Positioner EchoStar 5500 von Echosphere International im Vertrieb von Werbeck, Düsseldorf

Grundig mit preiswertem Receiver

Als neue Alternative zum bekannten Satelliten-Receiver STR 201 plus (Referenzempfänger der TELE-satellit-Redaktion) bietet Grundig einen neuen Satelliten-TV-Receiver, den STR 20, in Mono mit hohem Ausstattungskomfort an.

Der STR 20 ist ein Satelliten-Empfangsgerät, das über Euro-AV, DIN-AV oder auch über das HF-Kabel wie ein Videorecorder an jedes vorhandene TV-Gerät angeschlossen werden kann. Der Receiver arbeitet mit einem modernen PLL-Abstimm-System (49 Programme, 100 Kanäle) und Infrarot-Fernbedienung. Die Besitzer eines Grundig Farbfernsehgerätes können den STR 20 mit ihrer Fernbedienung steuern. Zusätzlich ist dem STR 20 eine separate Fernbedienung beigelegt.

ASTRA auf der Audio-Video

Buchstäblich umlagert war der ASTRA-Stand auf der Düsseldorfer Audio-Video. Der Stand erwies sich wegen der vielen an den Preisrätselfen teilnehmenden Besucher als viel zu klein. Zu gewinnen waren ASTRA-kompatible Satellitenempfangsanlagen, Bauteile und viele Kombiabis von TELE-satellit und TVI.



Der für den besucherandrang zu kleine ASTRA-Stand auf der Audio-Video in Düsseldorf

LNB/Feed-Kombi von Chaparral

Für den europäischen Markt entwickelte Chaparral, San Jose (Kalifornien) eine Downconverter-Feed-Kombination. Als Downconverter verwendet Chaparral ausschließlich HEMT-Modelle, deren Rauschzahlen zwischen 1,3 und 1,5 dB je nach Kundenwunsch differieren. HEMT-Konverter (High Electron Mobility Transistor) stellen die jüngste Entwicklung im Konverterbau dar, sie ermöglichen extrem niedrige Rauschzahlen.



Hier kommen die Satellitensignale zuerst an: im Feed mit Polarrotor und gleich anschließendem HEMT-Downconverter in einer neuen Kombination von Chaparral

Breakfast with America.

Grundig Satellite-TV-Receiver für jeden Fernseher.

Die neue Weltanschauung. Frühstücken Sie in Zukunft mit den Late-News aus New York. Der Grundig Satellite-TV-Receiver STR 201 Plus holt Ihnen die neuesten Informationen und Signale der neuen Welt von den Satelliten ECS 1, (ECS), abgestrahlt werden. Und künftig auch viele Programme der Satelliten, die nach starten werden. Bei aller Vielseitigkeit ist er extra leicht zu bedienen und an jeder Fernsehgerät angeschlossen. Wenn Amerika schlafen Sie in Ihrem Bett, mit dem Grundig STR 201 Plus haben Sie die Welt auf Ihrem Bildschirm zu Gast. Schauen Sie sich die kürzeste Verbindung in die neue Welt doch mal in Ihrem Fachgeschult an. Nehmen Sie uns beim Wort. Ideen muß man haben.

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Der EchoStar SR-5500 erfüllt nicht nur alle technischen Wünsche der Gegenwart, sondern ist bereits ganz auf die Anforderungen der Zukunft eingestellt.

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TV
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Start 1989
Sky News
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TV
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Teleclub
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FilmNet *
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EUT I-F4
13° Ost
Position-Nr.:
TV
Nr. Programm
RAI UNO
RAI DUE
TVE 1
TRT 1 (1989)
TRT 2 (1989)
Radio
Nr. Programm

EUT I-F5
10° Ost
Position-Nr.:
TV
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7° Ost
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TV
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Norpas
Infotilm
Radio
Nr. Programm

INT V-F2
1° West
Position-Nr.:
TV
Nr. Programm
Canale 5
Telespazio
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Radio
Nr. Programm

INT V-F6
18.5° West
Position-Nr.:
TV
Nr. Programm
MTV
Children's Channel
Premiere *
Kindernet
Lifestyle
Screen Sport
CNN
BBC 1/2 *
Radio
Nr. Programm
Radio Nova
BBC World-service
BBC For. Service

INT VA-F11
27.5° West
Position-Nr.:
TV
Nr. Programm
Premiere *
Kindernet
Lifestyle
Screen Sport
CNN
BBC 1/2 *
Radio
Nr. Programm
Radio Nova
BBC World-service
BBC For. Service

INT VA-F12
60° Ost
Position-Nr.:
TV
Nr. Programm
3 SAT
West 3
Tele 5
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* = in Sonder-
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ausgestrahlte
Programme

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NEU

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3.) PREMIERE / BBC / CHANNEL 10
Automatische Umschaltung
mit UHF-Modulator
alles in einem Gerät

4.) FILMNET / PREMIERE / BBC
Automatische Umschaltung
mit UHF-Modulator
alles in einem Gerät

TransStart Europe B.V. ist Hersteller von Decodern für Satellitenempfangsanlagen. Da wir über das richtige Know-how und qualifizierte technische Mitarbeiter verfügen, sind wir in der Lage, ein einwandfreies Produkt auf den Markt zu bringen. Der Beweis: unser neuester, verbesserter FilmNet-Decoder, der sowohl mit als auch ohne Modulator lieferbar ist.

Wir fertigen nur Decoder für FilmNet, BBC, Premiere, Channel 10, die sich nicht für den Empfang über Kabelnetze eignen. Unsere Marketingstrategie richtet sich darauf, qualitativ hochwertige Decoder zu einem niedrigen Preis auf den Markt zu bringen. Unsere Fernsatelliten-Händler ziehen daraus ihren Nutzen, denn die Anschaffung von Anlagen für TV-Satelliten wird für den Endabnehmer immer erschwinglicher.

Die Digital-Decoder geben ein perfektes Bild und einen perfekten Empfang (über Videotext (Auswahl der Sprache über Untertitel). Auf Änderungen des Signaleingangs stellt unser Decoder automatisch ein. Sie brauchen die EPROMs daher nicht zur erneuten Programmierung zurückzuschicken und auch andere lästige Handlungen entfallen. Eine kleine Änderung des Signals ist allen deswegen schon unmerklich, weil in einem solchen Fall etwa 250.000 getestete Kabelnetzen-Decoder umgetauscht werden müssen. Einen kostengünstigen Decoder braucht man sich daher bestimmt nicht anzuschaffen.

Darüber verkaufen wir unsere Decoder bereits in acht europäischen Ländern. Diesen enormen Anstieg verdanken wir Qualität, niedrigen Preisen und einem guten Kundendienst.

Der Beweis: unserer Decoder ist nicht in jedem europäischen Land gestattet.

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ASTRA unterstützt gezielt die Erschließung des neuen Marktes mit einem Mothornprogramm für Industrie und Handel. Ziel: höhere Umsatze durch neue kleine Einzelhandels- und Satellitenkäufer zu erschwinglichen Preisen.

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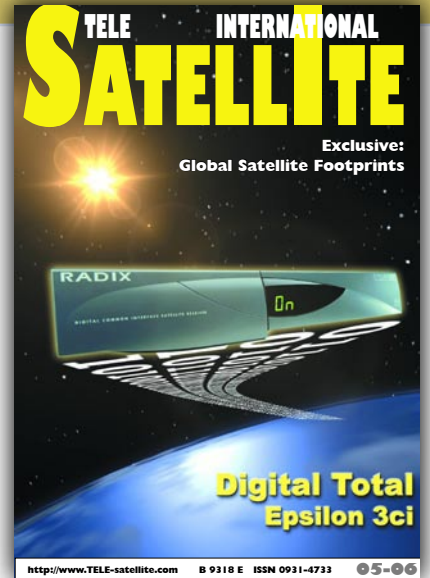
Edited by
Alexander Wiese

Praxis PalmSat 9500

Around the world there are still countries where it is not allowed to operate a satellite receiver and/or dish. And it is not unthinkable that in such countries you can expect a visit from the authorities to have a look at your living room. The usual satellite receivers are then easily found. But also in our modernised world, landlords or local authorities often don't accept satellite dishes for several reasons. In our next issue we will report on the CubSat dish, a small and almost invisible dish that could be used in all these cases. Another market for smaller equipment is the group of people who own a recreational vehicle. The smaller the receiver, the better.

10 Years Ago

**Travel into the Past
TELE-satellite Magazine
Issue 05-06/1999**



For whatever reason you might want a small satellite receiver, the new PalmSat 9500 from Praxis will do a perfect job. It comes in the size only four cigarette packs. Small, but with a lot of analogue power inside. With these small dimensions we may call it a miracle how Praxis managed to put so many connections on such a small area. A small display on the front shows the current channel ID. And although it is small, it is still very good readable. This PalmSat 9500 can store up to 400 analogue channels. Praxis even found some place for the three emergency operation buttons. A foil on the front has a print on what the box is. So if you remove it, nobody can tell immediately what the box is and what it does. The small dimensions made it impossible to use Scart connectors, so there are only phono connectors for video and audio (still in stereo, of course.) Two LNB inputs are present; one for C-band and the other for Ku-band. For use with the C-band even a servo-polariser terminal can be found at the back of this box. Another terminal supplies 0/12 Volt for an external switch. Of course, universal LNBS are supplied with the usual 14/18-Volt to switch polarity. Even an RF-output is built in. It is software adjustable and converts the satellite signal to be



received with older TV sets on any channel in the UHF band alongside the existing terrestrial signals. With so much universal power, it should also be able to operate all around the world. Therefore, Praxis designed it to do its job with any current between 60 and 260 VAC (50/60Hz). A first look at the remote control may give the impression it is very big. But with so much functionality it is impossible to make it smaller. Special buttons are available for a wide variety of menus, but also for the Low-threshold extension (no kidding, this tiny box has got one, and even in 32 steps), help and setting the on-screen display language.

AMSTRAD SRD 4101

Recent new products from Amstrad included analogue receivers only. Still, the need for a digital box in their product range was very high. However, the big issue for Amstrad was whether it should be a free-to-air receiver or whether it should feature Common Access slots as well? With the introduction of the new SRD4101, they have decided for FTA. The result is a box offering unlimited access to all free channels on the digital television highway. The Amstrad SRD 4101 comes in a sturdy metal housing; a box to which you can connect and de-connect without the box moving all around. It

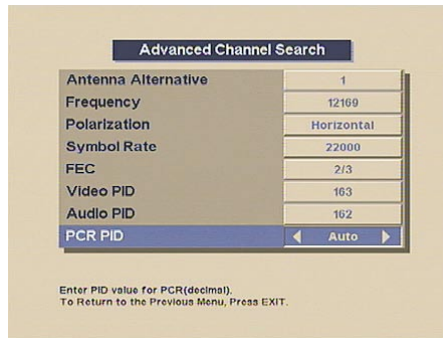
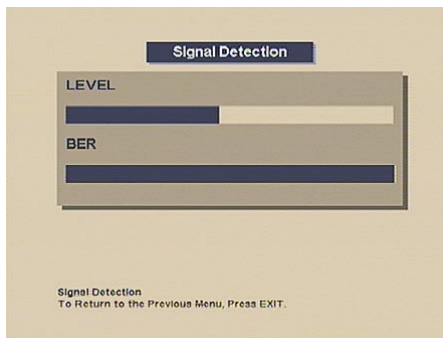
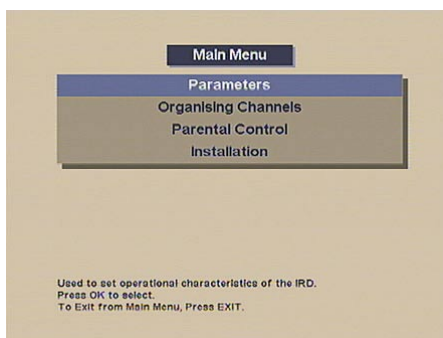




doesn't develop much heat and can easily be placed under an existing heap of equipment. The metal housing also protects it from any interference from the outside. On the front, we found the emergency operation buttons, which not only allow changing channels but also switching between radio to TV. At the back, two Scart connectors, phono audio out jacks and an additional phono video output take care of the connections to the outside world. An 'older' analogue receiver can be connected to the LNB output, so there is no need to install a 12V switch. Of course, you can also connect an ADR receiver to this output. A terrestrial antenna signal can be connected as well, which indicates there's also a built-in RF modulator. It is software-controlled and can be set to any channel on the UHF band. Of course, the SRD 4101 features a 12V-control signal, which can supply a current of up to 50mA, which is a little poor. The RS232 serial interface can be used to connect the box to a PC for uploading settings and new firmware. It supports up to 19.2kBd. The remote control features 22 buttons and a numeric keypad. It is a somewhat universal version, since there are buttons without any functionality such as the TXT button. Of course, the SRD 4101 features teletext, but this is sent to the TV set, so have to use your TV's remote for access. In daily use, you will only use about six buttons of the remote control. Most important for users that are new to digital satellite TV reception is the receiver's initial installation. What do you have to do? Well, this receiver gives you a wide variety of options when you first start it up, like the language on-screen display. Here you can choose from French, Italian, Spanish, Dutch, Swedish, English and German. This also goes for the subtitles and audio carriers. After that, you have to set the Scart connectors and select the screen format (4:3/16:9). Up to eight dishes can be programmed. The SRD 4101 also supports DiSEqC so you can control a DiSEqC-capable motorised dish. All common LOFs are supported, including 5.150 GHz for C-band reception. Aligning your dish is made easier with the built-in measuring tools. They not only indicate the signal strength but the bit error rate (BER) as well. Finding new channels and storing them is a doddle. You can perform a network search for which you only have to enter a start frequency. But you can also search for a single signal, even SCPC. Whenever you feel like entering the PIDs, you can do so in the advanced mode, although the box is perfectly capable of finding the right PID codes itself. Finally you can also have an auto install performed. This may overwrite existing data in the box, but on the other hand there is nothing you need to do. Although it may seem like a lot to do before you can enjoy the show, in fact it is only a few minutes' work. Even without the manual it only took us no longer to catch the first signals in both Ku-band and C-band and on different satellites. It was remarkable how fast this box reacts to every command. In

programming but also in daily use this receiver is a really speedy. Switching channels is performed almost immediately, and the channel information is displayed at the bottom of the screen almost right away. EPG programming information is immediately available, if supplied by the programme provider. We tested both MCPC and SCPC signals, but couldn't find any problem with either. PowerVu was a little bit more difficult for the SRD 4101. But then again, PowerVu is not DVB compliant. Signal rates from 2.5Mb/s and above are of no problem to this Amstrad box. So we tested the C-band—no problem at all, and digital feeds on various satellites could be received as well. The receiver found all the channels on the Astra satellite system in about 5 minutes, which is remarkably fast, compared to the 23 minutes some other boxes need.

The software never crashed and appeared to be very stable even under heavy-use conditions. Another nice feature is called Skip. It will omit all encrypted channels. This will save you time (otherwise needed for browsing through unwanted scrambled channels,) and besides the receiver's memory will have more room for the channels you really want. To us, the Amstrad SRD 4101 appeared as a true and dedicated FTA receiver, operating very fast and reliably. Although Amstrad specifies 1,000 channels as maximum capacity, in practice we found that this figure was somewhat less. This is not too important because of the Skip option for scrambled channels. The manual can be easily put away, since operating this box is really child's play. Using the television's teletext decoder instead of building one in the Amstrad is a very clever solution since this means a much better and clearer teletext display. A thorough and sturdy box, not only physical, but in operation as well. FSM 204 SAT-TV Spektrum-Analyzer A level meter and a spectrum analyzer are two of the costlier pieces of equipment that can easily drain an installer's budget. Therefore it is a logical consequence that only instruments are accepted that both serve well in the lab and up on the roof. These units must not only feature a built-in monitor and a rechargeable battery pack, but also a robust chassis that protects the sensitive electronic equipment. After all, the conditions up on a customer's roof can hardly be described as ideal for expensive equipment. Installers looking for a one-4-all unit also expect the analyzer to handle the whole frequency band which ranges from 40 to 850 MHz for terrestrial signals and from 950 to 2150 MHz for the satellite signals. Only if these demands are satisfied an installer will be able to set-up and check a client's antenna system which is used for FM, terrestrial TV and satellite signals. German company Doebis has recently introduced its JAEGER FSM204 portable level meter and spectrum analyzer which is offered at a competitive price and may even be bought by individual satellite enthusiasts and not only by professional installers. With a weight of 8.5 kg the FSM204 is not exactly a light-weight, but if one takes into account that the unit comes with a built-in monitor and a battery back that guarantees two hours of uninterrupted power supply the weight is somewhat acceptable. The terrestrial frequency range extends from 45 to 862 MHz and the IF range for satellite signals goes from 950 to 2150 MHz. The FSM204 is primarily used for the evaluation of analog satellite signals. We did some preliminary tests on a purely digital satellite (like the two DFS of Deutsche Telekom) and were able to meter the signal strength of digital bouquets, if the peaks on the spectrum analyzer are metered. However, it is not possible to determine the quality of digital signals. After all, comparable units for digital signals are twice as expensive.

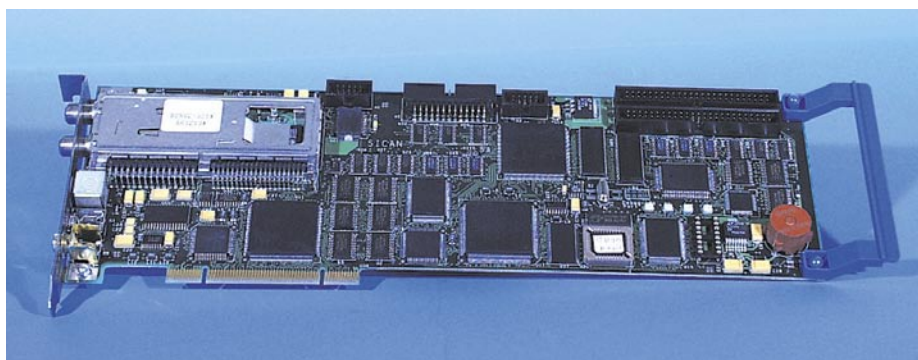


RO.VE.R. SDA-5 Digisky

Although it comes with a very long name, this new measuring tool is one of the smallest professional analyzers we have seen so far. It has been designed for measuring analogue and digital signals. It is light-weighted, only 1.3kg, and is very small. It comes in a yellow carrying case, which also has room for adapters and other accessories. A shoulder strap makes it easy to carry. A first look at this device will show you that it must be easy to operate. It doesn't feature many buttons, which most of the times are hard to reach. No just a few buttons, seven to be precise, will do the trick. And that is just what you need when you are high up on the roof, in combination with a two-line LC display (16 characters each.) The SDA-5 from Digisky is designed for measuring satellite signals only, and can therefore only handle signals between 950 and 2150MHz. This way you won't pay for things you don't need. For terrestrial signals, RO.VE.R offers the TDA-4, which looks the same. For analogue signals, the measuring takes place in dBµV or dBm together with a C/N figure. Additionally, you can test external devices like LNBS and multiswitches. If problems with cross-polarisation occur, in most cases this is caused by miss-configuration caused by not using proper measuring equipment. Use the SDA-5 to reach a perfect offset for your LNB. For analogue channels, a quick glimpse of the screen will do a lot. But for digital signals this is impossible. There is only one way to measure the quality of digital signals: facts and numbers. Good measuring with good measuring equipment is the answer. A simple signal strength measuring tool won't help. It is the very strength that doesn't say much about the digital quality of it. For digital signals, the quality is measured in BER (Bit Error Rate), before and after Viterbi. You will need a tool like the SDA-5 from Digisky for real professional installations and measuring. A perfect BER depends on the size of the dish, LNB and cable lengths and quality of the multiswitches in between. This Digisky will continuously show this figure.

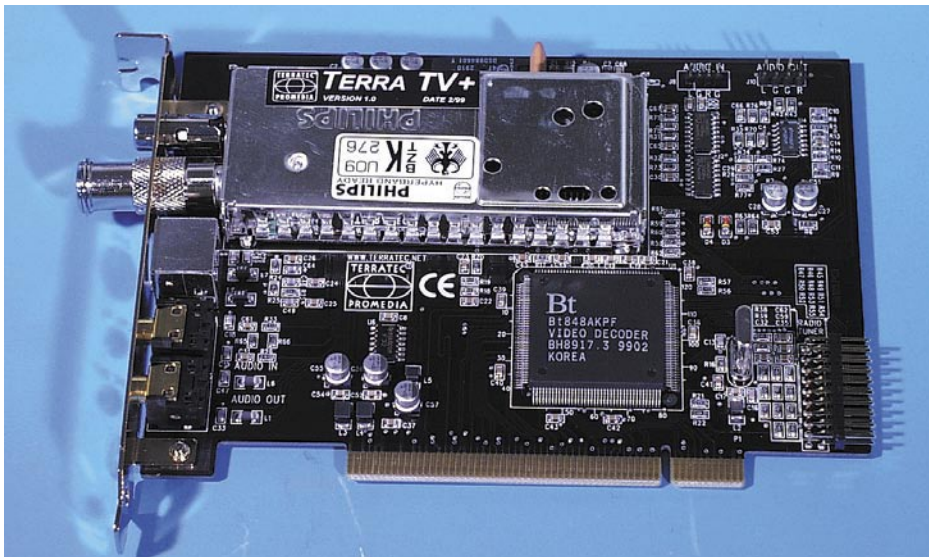
DVBBeam IP Card

Teleworking has been some kind of utopia for many years. Geographically separated offices only could communicate using expensive data lines, using low data rates and being only suitable for slow traffic. For larger files good old snail mail was just the answer. And although video conferences has been around for many years now, most of the time it is based on ISDN lines, with a maximum of 128Kb (at double rate.) For data-intensive requirements, such as for instance an advertising agency wanting to show their latest commercial, it is far too slow. And another problem is the absolute lack of compatibility between the different platforms around. The introduction of MPEG2 meant a full globally compatible digital platform for transferring satellite television and radio. But the DVB standard can also integrate packages of business information. This way it created a cost-effective way to have permanent on-line connections to all branch offices. Not only data, but with video and audio as well. Now it is possible to show that new commercial without visible or audible quality loss. For training purposes, you can think of the possibilities regarding remote education. You can cut the cost for travelling and hotels, and organising training by satellite is done much faster and easier. Back channels are of course possible although they still use landlines. In future, this will be also done via satellite; offering higher speeds and a full interactive solution.



Nowadays, Internet connections are a must for every company. Transferring data between two branch offices using an ISDN connection to the Internet, will take a lot of time when larger files are involved. For instance, a 120Mb file will take up to several hours to transfer. Using a satellite connection this can be reduced to 36 minutes. Almost all satellite operators offer the same platform, but there is still a big need on PC hard/software. Enter the DVBBeam IP-Card from Sican. It integrates all we have discussed so far: Business-TV, Internet on satellite, satellite radio and TV (MPEG2, European DVB). You can use it as a simple MPEG-2 receiver, but it can do much more than just that: it can turn your PC into a real multimedia terminal.

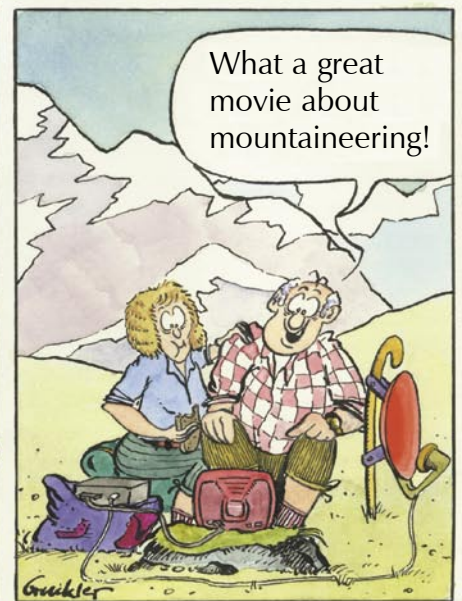
At TSI, we recently received a pre-production sample. Although we expected a lot of trouble installing this test board, we were really surprised by the ease of installation. As long as you use Windows NT4, Windows 95 or Windows 98 there is no real problem. For Windows NT4 you need to do the installation yourself, on Windows 95 and 98 the system will recognise the card and install all drivers and software needed. The minimum system requirement is a PC with at least 90MHz. But Sican suggest a better performance with at least a 166MHz, and this is true. The same goes for the minimum memory requirements: 16Mb, but in practice just ensure that your system has at least 32Mb of RAM installed. The VGA card should be of the SVGA type and should use DirectX.



(e.g. Western Europe), so that the card knows which TV systems to use (in our case PAL B, D, G, H and I). That's about all the setting up that's needed. No matter if you use the card for your big screen home cinema or your 14-inch PC monitor (while working with other application), the video quality is very good and there are no distortions, not even in full-screen mode. Up to 64 channels can be previewed in small windows, so it's the ideal tool for the notorious zapper. Thanks to the composite and Y/C input jacks external signals can be displayed, a freeze frame can be created or screen shots can be stored on the hard disk. Furthermore, the Ulead Video Studio 3.0 software is included, which allows you to professionally work with your images, cut your own movies and create whole video sequences with text or graphics. So in essence, you get a professional video machine in addition to the TV card. Dubbing and a range of 100 digital video effects are also included. The software alone is worth every cent of the retail price of approximately EUR115.

Terra TV+ PCI Stereo TV Card

The PC card for TV reception introduced here supports only terrestrial signals. However, we were so delighted with both the features and the quality of the card that the most urgent question was "why is there no similar card for satellite reception?" The answer is that a satellite receiver card is in the making, but the exact schedule of introduction is not available yet. So this report can also be seen as preview of good things to come. With the Terra TV+ card usability is no empty promise: even the system requirements are extremely consumer friendly. With a 90-MHz PC all features can be used and expensive upgrading is unnecessary. Windows 95 or 98 are a must, plus—of course—a PCI 2.2 card slot. A free interrupt should also be available, but unless your PC is really crammed with extras, this should pose no problem. (While PCI cards in theory are able to share interrupts, this may not always be the case with up-to-date graphics cards, so it's advisable to have a spare interrupt available.) The software comes on CD ROM, so a CD ROM drive is also necessary for installation, and in order to enjoy stereo sound active loudspeakers should be connected to the sound card. For the graphics display a standard PCI or AGP VGA video card will do as long it supports Direct Draw and video overlay. As a matter of fact most video cards will work with the Terra TV+ card, and the user's manual includes a comprehensive list of compatible cards. From ATI (Mach3/Rage) and Hercules to Dynamite 128 and Voodoo Rush, all major video cards will operate flawlessly with the Terra TV+ card. After the card is installed your Windows PC will automatically detect the new hardware and start the installation procedure from the included CD ROM. In case the automatic installation does not work owing to system conflicts, the user's manual features a detailed step-by-step guide to manual installation. In case DirectX is not installed, the CD ROM has all the necessary drivers. The card is connecting to the outside world through quite a few sockets. A standard antenna plug is used for the signal input from a terrestrial antenna or cable network. In case the input comes from a VCR or camera, there's a phono jack which serves as video input. An additional jack for Y/C signals is included so that the excellent quality of this signal can actually make it right onto the screen. External audio signals can be fed in; the sound can either be output to a pair of active loudspeakers or to the PC's sound card (a connection cable is included.) Similar to a satellite receiver, the card needs to know which channels are available, so it starts an extremely quick automatic tuning process. Since the Terra TV+ card can be used in all corners of the world you first have to choose the region



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