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من بكين

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قريب اختبار

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Multimedia HDTV Twin Tuner PVR with DivX playback

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

Multimedia



Playing media contents of YouTube.

DivX



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GAME



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- ✓ Very Fast Blind Search
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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

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3000 CR PVR

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



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Digital HDTV DVB-S2 Receiver
with Various Multimedia

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ليست سوى شاشة عرض و الذي أصبح "
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مع الاتصال بالإنترنت .

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يصبحون شئ واحد : فكلى النوعين من
التكنولوجيا يوفران برامج غير محدودة و بدون
أية عوائق ، و الشيء الأكثر أهمية أنها توفر
الحرية من الرقيب الذي قد يكون كمثل في
قنوات الكابل أو نتيجة لرقابة الحكومات في
الإرسال التلفزيوني الأرضي .

إن مستقبل الوسائط المتعددة دائما موجود
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الفضائي و الإنترنت جزء من هذا : و الآن
اصبنا معا على شكل جهاز ريسيفر متعدد
الوسائط .

بالمناسبة ، منذ سنتين أصبح لمجلة تيلي
ستلايت اسم جديد و هو تيلي ستلايت و
الإنترنت فائق السرعة ، و الآن تعرفون لماذا .

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المفضلة لهذا الشهر كما هي في العدد السابق
من مجلة تيلي ستلايت و هي من بلغاريا و
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نقدم لكم أول جهاز ريسيفر يعمل بالوسائط
المتعددة يقتررب من الكمال ، انه جهاز
ريسيفر فضائي و أيضا لاستقبال التلفزيون
عبر الإنترنت ، و هذه هو المستقبل حيث
أن المستخدم لا يهتم من أين يحصل على
العروض التلفزيونية .

و الأمر الهام في ذلك أن هذا تم نتيجة وجود
جهاز ريسيفر لاستقبال القنوات التلفزيونية
الفضائية ، و سوف نقدم في العدد القادم
جهاز مستقبل لاستقبال التلفزيون عبر
الإنترنت .

لكن عموما ، إن هذا المجال سوف يكون
لأجهزة الريسيفر التي يمكنها استقبال
التلفزيون عبر الإنترنت ، و إذا أخذت فكرة
استقبال الأقمار الصناعية و نظرت فيها عن
قرب ستجد انه جهاز يمكنه استقبال القنوات
التلفزيونية و هذا بالنسبة للمستخدم العادي

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IBC September 11-15, 2009
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HD2.0

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



- Tuner Loop-Through Output(Full band) Compliant with Cable Ready Specification (for Cable STB only)
- Dolby Digital Down-Mix Output Support (*Optional)
- Conax CAS 7 Embedded Chipset Pairing
- Cable HD Ready Support (for Cable STB only)
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- Various Video Display Format with PAL 576i/576p/720p/1080i 50 Support
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- Multi Language Support(Customer Option)

HD2.0 Slim



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TOPFIELD NEW Topfield Media Solution



Features available at launch

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



PVR
Playing recorded programmes up to 64 times speed at maximum



GAME
Featuring a double-player game „Battle Tank“



UCC
Playing media contents of YouTube



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

Experience the future of digital receiver

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

Features will be available by firmware updates

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



TOPFIELD

TF 5050CI HDMI



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



Measuring Instruments

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



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

ALSO AVAILABLE:

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

DIGISAT PRO ACCU

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

With DiSEqC tester.



ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB

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

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



H-H Mounts

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

LNBS

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



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

Inverto

NEW



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

All available as:

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



Full LNB range INVERTO available from stock

Multiswitches / DiSEqC - Switches

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



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

sa SPAUN Full Range

Parts

Multifeederholder for 2, 3, or 4 LNB



Wallmounts

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



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

Remotesystems

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



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



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- QTH-031
- QDH-031
- SNF-031
- TWF-031
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- QDF-031

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MICROELECTRONICS TECHNOLOGY INC.

High-Line-Series



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- MTI AP 8 T2NRC Single
 - MTI AP 82 XT2N Twin
 - MTI AK54 XT2N Quad
- 40 mm
• 0,2 dB

Full LNB range MTI available from stock

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digital-labs

IDLP UST110-CUO10-8PP

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



Balcony mounting parts

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



120 cm length – Ø 6 cm

ALSO AVAILABLE:

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

Dishes

CIBERTINI TRIAX Emme esse

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

Big Dishes directly from our warehouse!

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



Flat-Dishes

NEW

SELSAT H10D / H10D2

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

MAXIMUM Flat-1

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



Multifocus Dish

MAXIMUM

E-85 Multifocus 48° Dish



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

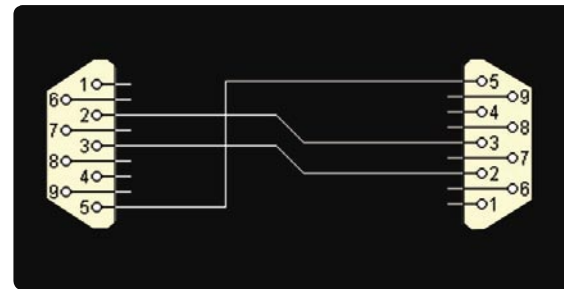
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Data Exchange Between PC and Digital Satellite Receiver

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



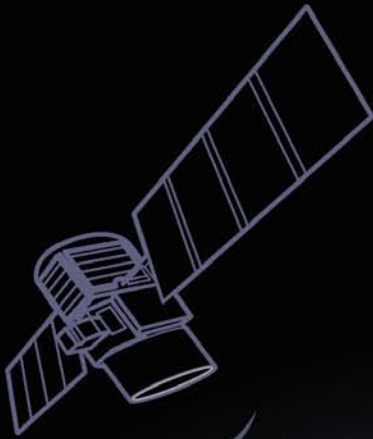
■ Null modem cable for connecting a receiver to the PC



■ 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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Satellite Flat Antenna

TRU SAT

MODEL

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Frequency range
Polarization

Gain
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
Dual Linear or
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)

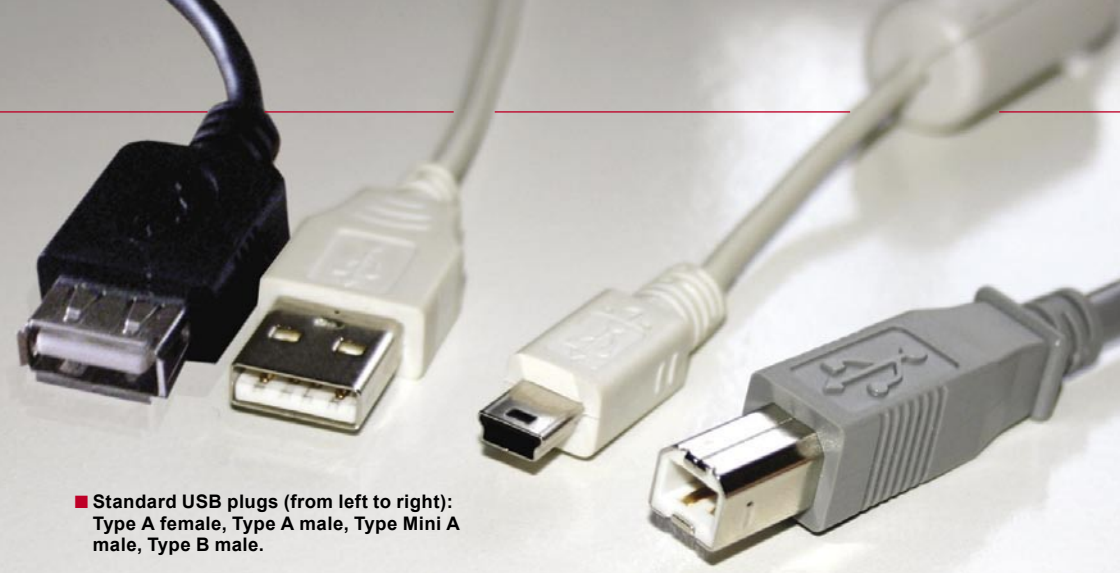
TRUSAT600

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

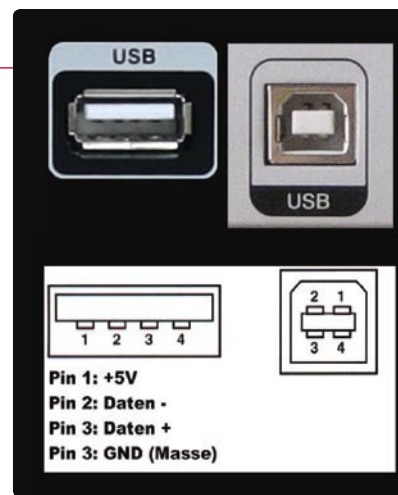


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■ Standard USB plugs (from left to right): Type A female, Type A male, Type Mini A male, Type B male.



■ 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.

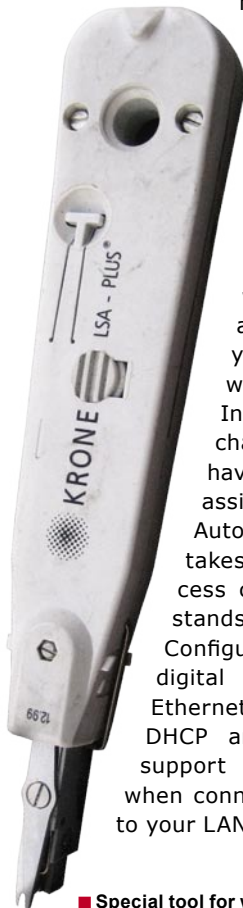
So-called twisted pair cables are required for Ethernet networks, with eight individual strands being twisted into four pairs, hence the name. Using pairs of two strands each minimises outside interference. This type of cable can easily be laid out by everybody, fitted with RJ45 plugs or connected from 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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- New nylon F connectors for maximum durability
- Faster processor with recall of last selection used
- New manual carrier configuration mode
- 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)
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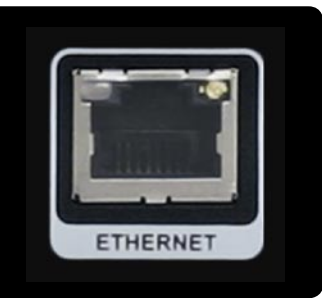
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■ Network interface of a digital receiver

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

أحدث ما توصلت إليه التكنولوجيا



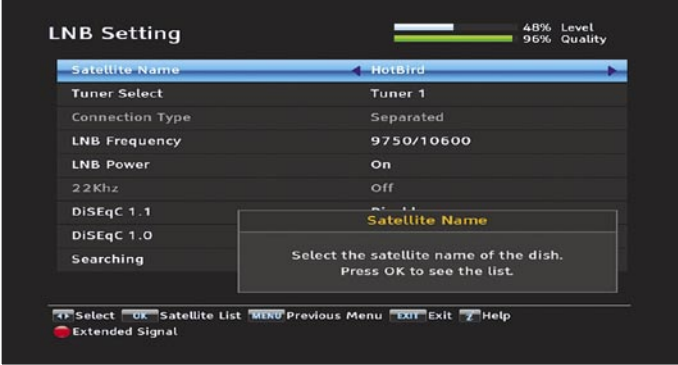
TOPFIELD®

كل جهاز ريسيفر نشترية دائما يوجد الاسم التجاري له فى اللوحة الامامية . و فى واقع الامر لا تقوم الشركات المنتجة بتطوير و إنتاج جميع المكونات بنفسها ، و إنما تأتى ببعض المكونات من العديد من الشركات المورددة الأخرى و من ثم يتم تجميع جهاز الريسيفر ، و إحدى هذه المكونات الهامة هى طاقم الرقائق الرئيسية و التي تحدد كيف يتم معالجة خروج الصوت و الصورة ، إن الريسيفر العالى الجودة يجب أن يكون به طاقم رقائق تضمن خروج صوت نقى و صورة عالية الجودة ، كما يتضمن الريسيفر العديد من التطبيقات و ثبات التشغيل .





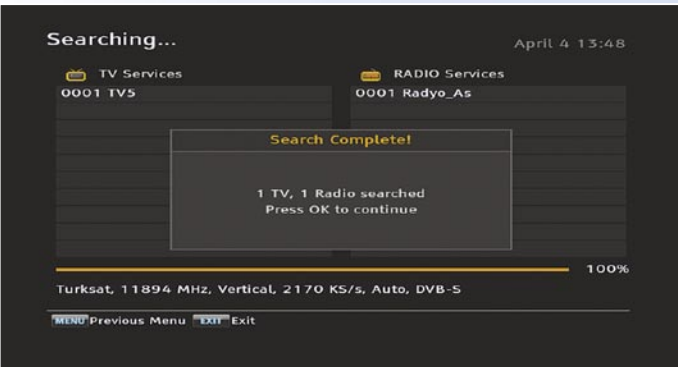
Main menu |



LNB settings |



Video Output Options |



SCPC Search |



أين يحصل على الإرسال التلفزيوني والإذاعي من الأقمار الصناعية ، الكابل ، الإرسال الأرضي أو الإنترنت فائق السرعة ، فالجميع متساوي كمصدر للوسائط المتعددة و سوف يأتي يوم لا نهتم من أين يأتي مصدر الإرسال التلفزيوني .

و لقد وضع المهندسين في شركة Topfield هذا المفهوم في الريسيفر الجديد TMS ولم يقوموا فقط بوضع عدد 2 تيونر DVB-S2 ولكن أيضا تشغيل كامل الوظائف لشبكة الإنترنت .

و لقد قررت شركة Topfield انه طالما أن هناك تكنولوجيا جديدة بالداخل فلا بد أن يكون هناك مظهر جديد بالخارج ، لقد انتهى للابد وجود أزرار مخبئة وراء غطاء في اللوحة الأمامية ، إن المستقبل في وجود لوحة تحكم باللمس .

إن معنى TMS (هو حل كامل للوسائط) ، إن الريسيفر يرتفع ثلاثة سنتيمتر عن أي جهاز ريسيفر رقمي ، و نشكر وجود لوحة أمامية ذات تصميم رائع ، و يوجد زر واحد فقط فوق شاشة العرض الواضحة القراءة و هذا الزر مسئول عن تشغيل و إيقاف تشغيل الريسيفر .

و جميع مقاطع التحكم موجودة بجوار الدائرة و يتم تفعيل هذه المقاطع عن طريق اللمس في اللوحة الأمامية و هذا يعتبر مفهوم ذكي جدا . و عندما يتم تشغيل الريسيفر تضاء هذه المقاطع بلون أزرق باهر على شكل دائرة ، و لقد لاحظنا أن إضاءة هذه الدائرة لامعة أكثر من اللازم عند مشاهدة التلفزيون في الظلام ، و نأمل في أن يتم التحكم في درجة إضاءة هذه الحلقة .

و يوجد غطاء في اللوحة الأمامية في الجانب الأيمن يوجد بداخله عدد 2 فتحة لإدخال الكامات لجميع أنواع التشفير مثل (Cryptoworks,) Nagravision, Alphacrypt

و منذ أكثر من عام بقليل شاهدنا التحول على مدى كبير من الإرسال الرقمي القياسي SDTV إلى الإرسال الرقمي الفائق التفاصيل HDTV باستخدام تقنية الإرسال الرقمي الجديد DVB-S2/H.264 . و هذا بالطبع يتطلب طاقم رقائز جديد تماما للتأكد من معالجة الإشارات الرقمية الفائقة التفاصيل بالإضافة إلى الإرسال الرقمي العادي .

و نحن نعرف جميعا أن التقنيات الجديدة تأتي بمشاكل جديدة و التي مع الوقت يتم حلها ، إن أول بطاقتي رقائز DVB-S2/H.264 لا يختلف عن الموجود الآن و أي شركة منتجة لأجهزة الريسيفر التي تستقبل الإرسال الفائق التفاصيل قد واجهت بعض المشاكل في البداية ، و قد حاولت بعض الشركات وضع بعض الابتكارات الخاصة بها في الريسيفر HD .

و في نفس الوقت كان لدى الشركات المنتجة لطاقم الرقائز بعض الوقت للنظر إلى المشاكل و كيفية إيجاد الحلول لها ، و لهذا فإن الريسيفر Topfield TMS SRP- 2100 الآن هو أول جهاز ريسيفر يستخدم أحدث طاقم رقائز مطورة من DVB-S2/H.264 .

إن شركة Topfield الكورية الجنوبية تطلق على نفسها " رائدة الوسائط المتعددة المنزلية " و هي دائما تريد أن تثبت هذا مع المنتجات الجديدة ، و منذ شهور قليلة قام فريق من مهندسي شركة Topfield بتصميم ريسيفر HD من الجيل الثاني .

و الذي كان واضحا منذ البداية أن الإنترنت سوف يلعب دورا كبيرا بالإضافة إلى استقبال الإرسال الفضائي و لهذا لم يكن غريبا أن تتبنى مجلة تيلي ستايلت شعار " الإنترنت فائق السرعة " بجانب اسم المجلة ، لأننا توقعنا ذلك في المستقبل بحيث لا يهتم المستخدم من

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معمل الاختبار و عندما أتى اليوم أخيرا ووصل الريسيفر تم توصيل الريسيفر إلى نظام الاستقبال الذي لدينا فوراً و تم توصيل الريسيفر بتلفزيون بلازما ، و عند تشغيل الريسيفر لأول مرة أراد معرفة اللغة المفضلة لتشغيل القوائم و منها : الإنجليزية ، الفرنسية ، الألمانية ، الهولندية ، الإيطالية و الإسبانية . و مع أن الريسيفر أتى بقائمة قنوات شاملة فمن الواضح إن الريسيفر مصمم لأسواق الدول الناطقة بالألمانية ، والخطوة التالية هي إجراء عملية البحث عن القنوات ، فقد أتى الريسيفر TMS بقائمة أقمار صناعية بعدد 150 قمر أوروبي و أسيوي لاستقبال KU و C band ، و قد تم برمجة بيانات النواقل حديثاً .

و عند ضبط الريسيفر للعمل مع نظام الاستقبال يبدو أن الريسيفر TMS سعيد بأي شئ يلقى إليه فهو يدعم بروتوكول DiSEqC الإصدار (1.0 ، 1.1 ، 1.2 و 1.3) و هذا يعنى أن الريسيفر يمكنه أن يعمل على طبق ثابت أو طبق متعدد التغذية حتى عدد 16 وحدة خفض شوشرة و حتى الأطباق التي

و بالإضافة إلى ذلك قررت شركة Topfield أن تشحن لوحة مفاتيح لاسلكية مع الريسيفر TMS ، و على الرغم من انه يمكن استعماله حتى الآن في التحكم في لعبة Battle Tank ، إن الخطط مازالت مخبأه ، فسوف يتم إضافة التحكم في تصفح الإنترنت و ذلك من خلال البرنامج التشغيلي في المستقبل ، و عند استخدام لوحة المفاتيح اللاسلكية يجب وضع جهاز إرسال صغير على شكل فلاشة في الريسيفر من خلال منفذ USB بحيث يتم تبادل الإشارات بين الريسيفر و لوحة المفاتيح اللاسلكية .

و تكتمل إمكانيات الريسيفر الرائعة مع وجود كابل و كتيب التشغيل اليدوي الذي يعطى معلومات شاملة عن التشغيل و قد تم تزويد الكتيب الصور التوضيحية .

الاستخدام اليومي

عندما أخبرتنا شركة Topfield منذ أسابيع قليلة أن الريسيفر TMS قد أرسل إلينا لاختباره كنا بانتظار وصول الريسيفر بفاغ الصبر إلى

المعدة للسوق بمروحة تبريد هادئة ووحدة طاقة محسنة .

ووحدة التحكم عن بعد التي تم شحنها مع الريسيفر TMS تتناسب تماما مع راحة اليد و ذات تصميم جيد و تم ترقيم جميع الأزرار بطريقة واضحة و تتفاعل الأزرار جيدا عند الضغط عليها .

و إذا كانت جودة وحدة التحكم عن بعد للريسيفر TMS تماثل جودة وحدة التحكم عن بعد للريسيفر TF7700HDPVR فسوف نشعر أننا في الجنة ، و على الرغم من أن وحدة التحكم عن بعد جيدة من حيث الاستخدام و لكنها لا تتناسب مع التصميم الأمثل للتحكم في الريسيفر ، و قد أحببنا أن نتحكم وحدة التحكم عن بعد يمكنها أيضا التحكم في أجهزة التلفزيون و مشغلات أقراص DVD .

أما بالنسبة لكتيب التشغيل فقد أتى شاملا و مزودا بكوود أجهزة التلفزيون بحيث يمكن برمجة وحدة التحكم عن بعد للعمل و قد تم اختبار هذه الميزة و قد ثبت أنها تعمل جيدا .

(، بالإضافة إلى عدد 2 منفذ USB للتوصيل بقرص صلب خارجي أو أي وسائط تخزين أخرى مثل الكاميرات الرقمية و الوحدات المشابهة .

و اللوحة الخلفية تثبت أن هذا الريسيفر يستحق حيث تم تزويد اللوحة الخلفية بمنفذ HDMI و عدد 2 موصل سكارث أوروبي ، عدد 6 جاكات تعمل كمخارج للصورة CVBS ، YUV و الصوت الاستريو و منفذ USB و فتحة E-SATA و منفذ شبكة و مخرج صوت رقمي محوري و بالطبع مداخل لعدد 2 تيونر DVB-S2 مع مخارج تمرير لهما ، و لإكمال الابتسامه أضافت شركة Topfield مفتاح طاقة رئيسي .

و على عكس جميع أجهزة الريسيفر لشركة Topfield فإن الريسيفر الجديد TMS أتى بمروحة تبريد صغيرة في الخلف لتبريد القرص الصلب ووحدة الطاقة ، إن الريسيفر التجريبي الذي أتى إلينا لاختباره مزود بمروحة تبريد تصدر بعض الضجيج ، و لكن شركة Topfield أكدت لنا انه سيتم تزويد الريسيفر



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ضبطها أتوماتيكيا أو يدويا بواسطة التحريك ، الإلغاء ، إعادة التسمية أو إدخال كود القفا الأبوي للقنوات .

و يمكن بسهولة نقل القنوات إلى القوائم المفضلة و التي يمكن تقسيم هذه القوائم المفضلة إلى عدد 30 قائمة منفصلة و بهذا يمكن لجميع أفراد الأسرة عمل قوائم منفصلة خاصة بهم أو عمل قائمة منفصلة للقنوات HDTV .

و قبل الخروج من القائمة الرئيسية و التي تنقسم إلى خمسة أقسام – فمن الطبيعي النظر إلى ضبط النظام ، فمثلا يمكن ضبط الوقت أتوماتيكيا عن طريق إشارات القمر الصناعي و حيث ان بعض القنوات تعطى توقيتنا خاطئا فيمكن ضبط التوقيت لهذه القنوات .

و من خلال منفذ HDMI يمكن للريسيفر TMS أن يخرج الصورة بدقة 720p ، 576p ، 576i أو 1080i ، أو يمكنك اختيار النظام الأتوماتيكي لتحديد درجة عرض الصورة المناسبة طبقا للإشارات المستقبلية ، و يمكن تغيير درجة

و يبدو أن التيونر في الريسيفر TMS يخبئ لنا مفاجئة سارة ، فأمكن للريسيفر استقبال إشارات القمر TURKSAT عند 42 درجة شرق و استطاع أيضا استقبال الإشارات الضعيفة من موقعنا للقمر نايلسات عند 7 درجة غرب و القمر ASTRA2D عند 28.2 درجة شرق ، و عند وضع الريسيفر للاختبار المعملية عند استقبال الإشارات الضعيفة فكانت قيم أعلى بقليل عن 4 ديسيبل و هذا كان كافيا للحصول على صورة خالية من الأخطاء على تليفزيون البلازما .

و مثل أي جهاز ريسيفر جديد و بعد عملية البحث عن القنوات فستجد الآلاف من القنوات و التي لا بد من ضبطها و هما فان أجهزة الريسيفر Topfield لها سمعة جيدة في سهولة ضبط و ترتيب هذه القنوات التي زاد عددها حتى الآن عن 2000 قناة و الريسيفر TMS ليس استثناء من هذا . إن الذاكرة التخزينية للريسيفر تستوعب 7000 قناة تليفزيونية و 3000 قناة إذاعية و التي يمكن

التيونر رقم 2 ، و قد تم إجراء عملية البحث عن القنوات و استغرق الريسيفر ثمانية دقائق للبحث في القمر HOTBIRD عند 13 درجة شرق لعدد 100 ناقل للباقات و القنوات ، و طبيعيا يمكن تحديد البحث عن القنوات المجانية فقط أو المشفرة فقط و يمكن البحث عن طريقة الشبكات .

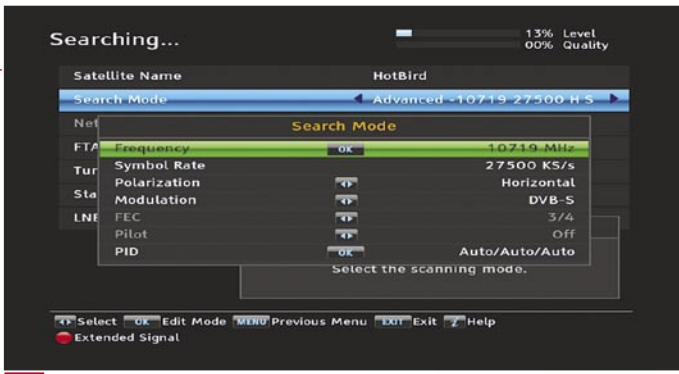
و بالنسبة للمحترفين فان شركة Topfield أتاحت إدخال قيم تعريف الباقات يدويا و الميزة الوحيدة التي يفقدها هواة اصطياد القنوات الفضائية هي عدم وجود وظيفة البحث الأعمى عن القنوات و التي هي غير متاحة في الريسيفر TMS .

تعمل بموايير DiSEqC ، و قد تم ضبط بيانات ترددات المذبذب المحلي الاعتيادية و يمكن إدخال أي قيم أخرى غير مألوفة يدويا .

و للتأكد من عمل الاثنين تيونر للتسجيل يجب أن يتم إمداد الإشارات إليهما بشكل منفصل (حتى انه يمكن التسجيل من قمرين مختلفين) بحيث يمكن تسجيل قنواتين مختلفتين و مشاهدة قناة أخرى في نفس الوقت .

فإذا كان هناك كابل إشارة واحد فقط فيمكن تمرير الإشارات إلى التيونر الآخر و هذا يعني أن ليس كل القنوات ستكون متاحة إلى





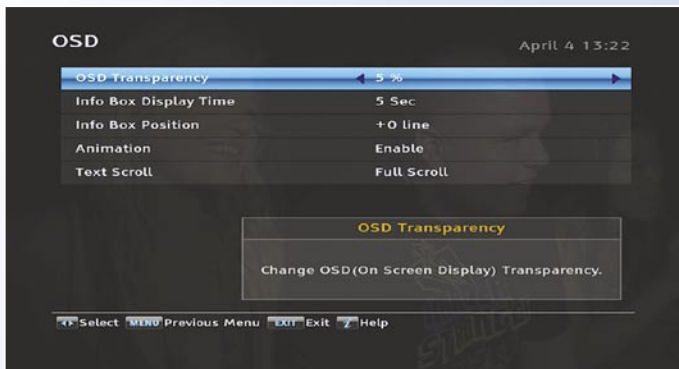
Manual channel search |



EPG mode 1 |



Extended EPG information |



Various OSD settings |



150 pre-stored satellite positions are available |

و إذا كنت تريد توصيل الريسيفر بالعالم الخارجي فان الريسيفر Topfield TMS لا يتم توصيله فقط عن طريق منفذ USB و E-SATA ، بل أيضا عن طريق شبكة الإنترنت ، ويمكن ضبط ذلك من خلال قائمة معينة حيث يسمح للمستخدم بإدخال عنوان IP يدويا أو أتوماتيكيا عن طريق سيرفر DHCP المدمج مع الشبكة ، و في هذه الحالة سوف يحصل الريسيفر أتوماتيكيا على كافة البيانات و يكون مستعدا للعمل في ثواني فقط .

كما تم دمج سيرفر على الشبكة و سيرفر FTP مع الريسيفر و يمكن تفعيل كليهما ، كما أن الريسيفر TMS يسمح بالدخول على السيرفر عن طريق اسم مستخدم ID و كلمة سر .

و عند الانتهاء من عملية التهيئة الأولية يمكنك الضغط على زر الخروج من القائمة ثم القائمة الرئيسية من وحدة التحكم عن بعد و من ثم يقوم الريسيفر بالانتقال لعرض أول قناة في قائمة القنوات و يظهر شريط بيانات سافل الشاشة و التي تتضمن معلومات عن القناة المعروضة مثل معلومات البرنامج الحالي و الوقت المتبقي من البرنامج و جميع المعلومات عن التيونر و القمر الصناعي و الناقل ، و بالإضافة إلى ذلك هناك أيقونات تمثل الخدمات المصاحبة للقناة مثل خدمة قناة المعلومات و الترجمة الفورية و الصوت الفرعي المصاحب و إذا كانت القناة مشفرة أو القناة متعددة التغذية .

كما يوجد شريطين لتوضيح مقياس قوة و جودة الإشارة و لكن كن حذرا مع تلك الأرقام حيث وجدنا أن مقياس الجودة كان 100% و في بعض الإشارات الضعيفة و ربما كانت تلك القيم غير دقيقة .

و إذا قمت بالضغط على زر Info

عرض الصورة بشكل سريع أثناء المشاهدة عن طريق زر موجود بوحدة التحكم عن بعد .

و يخرج موصل سكاتر الأوروبي صورة بإشارات S-Video ، CVBS ، RGB ، و على المستخدم أن يحدد أولا كيفية عرض إرسال الصورة العادية 4:3 على شاشة عريضة 16:9 (صورة Pan & Scan أو صورة الإرسال الفعلي مع إطار اسود على الجانبين) ، و إذا كان هناك قليلون مازالوا يستخدمون أجهزة التلفزيون القديم يمكنهم ضبط خروج الصورة 4:3 .

و يمكن ضبط عملية التسجيل و التشغيل ، كما توجد وظيفة ترحيل الوقت حتى 300 دقيقة و قد كانت اكبر قدرة لترحيل الوقت في الماضي حتى 120 دقيقة فقط ، و يمكن إضافة بعض الدقائق للمقاتي قبل و بعد زمن التسجيل لضمان أن لا يفوتك شيء من البرنامج المراد تسجيله و هذا ما قد يحدث حيث أن بعض القنوات لا تلتزم تماما بدقة مواعيد العرض .

و إذا ما تم توصيل وحدة تخزين خارجية عن طريق منفذ USB أو E-Sata فإذا أردت أن تستخدم قرص صلب خارجي بدلا من القرص الصلب الداخلي بسعة 500 جيجابايت و الموجود داخل الريسيفر يمكن ضبط الريسيفر للتسجيل على قرص الصلب الخارجي .

و يمكن أثناء العرض لما تم تسجيله إجراء عملية العرض السريع و إعادة اللف ، و يمكن للريسيفر أن يتحكم في طريقة عرض المواد المسجلة المشفرة فيمكن فك التشفير فورا أو ترك هذا للمستخدم أن يقوم بتفعيل فك التشفير يدويا .

و في اللوحة الأمامية يمكن ضبط مستوى الضوء لشاشة العرض و كنا نأمل أن يتاح نفس الشيء بالنسبة للحلقة المضيفة .

Something new is happening at Sea Tel®



NEW! USAT24.
Ultra-small 60cm
broadband.

NEW! 2406.
Commercial quality
60cm broadband.

NEW! ST14.
New design.
Better performance.

Same company. Advanced technology. Strengthened by Cobham.

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

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



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Sea Tel Europe: +44 2380 671155
www.cobham.com/seatel

ضبط الميقاتى للتسجيل .

لا توجد مشكلة إذا كان لديك إمكانية الدخول على الإنترنت من خلال موقعك الذى تمضى فيه الإجازة وعند ذلك يمكن الدخول إلى الريسيفر وضبط عملية التسجيل و يمكنك أيضا استخدام سيرفر FTP لنقل الإرسال التلفزيونى أو الإذاعى من الريسيفر فى منزلك إلى المكان الذى تمضى فيه الإجازة .

و نأتى إلي " الترفيه " ستجد أن شركة قد أزلت الحدود بين الريسيفر

الميزة تعمل أيضا فى حالة عرض القنوات الفائقة التفاصيل .

و يجب أن لا ننسى أن هناك ميزة تسمى إعادة استرجاع النظام الأتوماتيكي و هى تعمل بالضغط على زر لحفظ جميع بيانات ضبط الريسيفر و التى يمكن استرجاعها فى وقت لاحق ، فإذا حدث شئ قد اتلف ضبط النظام فيمكن استرجاع ملفات النظام حتى التى تم تسجيلها على وحدات تخزين خارجية ، فأنت دائما فى الجانب الأمان .

إن شركة Topfield لا تتوقف أبدا عن تطوير منتجاتها و لهذا ستجد من وقت إلى آخر برنامج تشغيلي جديد يمكن تحميله من الإنترنت أو التحديث عبر الأقمار الصناعية أو شبكة الإنترنت أو عن طريق فلاشة USB .

منفذ الشبكة

كما ذكرنا من قبل أن شركة Topfield تؤمن بالمستقبل انه سوف يكون العديد من وسائل الاستقبال المختلفة مدمجة مع بعضهما ، أن إرسال التلفزيونى و الإذاعى سيستمر عبر الأقمار الصناعية و الكابل و الإرسال الأرضي و أيضا من الإنترنت .

و هذا هو سبب وجود منفذ شبكة للإنترنت فى الريسيفر TMS و التى تم ذكرها منذ البداية و هذا المنفذ لا يعمل فقط بالتحكم فى الريسيفر عبر أو فى الشبكة المحلية عبر الشبكة المدمجة ، و لكن يمكنك أيضا الدخول على القرص الصلب من أي مكان فى العالم من خلال سيرفر FTP.

و يتم نقل البيانات بسرعة عالية فإذا دخل حيز التطبيق فسيكون عملها تماما و مع استخدام عالم أجهزة الريسيفر ، فقط تخيل انه يوجد فيلم بينما كنت فى إجازة و كنت مستعجل أثناء المغادرة و نسيت

فان هذه الطريقة تسهل استعراض القنوات .

إن استعراض القنوات السريع هو أمر ممتع مع الريسيفر TMS حيث يستغرق التنقل بين قناة و أخرى ليس أكثر من ثانية فقط و ذلك بين القنوات الرقمية العادية و يستغرق زمن ثانيتين فى حالة التنقل بين القنوات الفائقة التفاصيل .

و لقد قمنا بثناء الاختبار بالتنقل بين القنوات لزمن طويل و لم يحدث أبدا أي توقف للريسيفر و لقد أعجبنا جودة الصوت و الصورة لكلى النوعين من الإرسال الرقمي العادي و الفائق التفاصيل ،

و لقد أتى الريسيفر بقرص صلب مدمج بسعة 500 جيجابايت و الذى يسمح بتسجيل الكثير من الأحداث ، و يمكن عمل ملف باسم الأحداث المتشابهة ونقل ما تم تسجيله فيها و تظهر صورة للأحداث المسجلة و بيانات عن حجم و مدة الحدث المسجل ، و تكفى 500 جيجابايت لتسجيل ما يقرب من 250 ساعة .

إن نظام تنسيق الملفات الخاص بشركة Topfield هو JFS و بالرغم من ذلك فان نظم التنسيق الأخرى مثل (FAT32، NTFS أو EXT2/3 كمثال) يمكن قراءتها جيدا ، و كلى النظامين JFS و EXT2/3 يمكنك كتابتهم فقط ، و لذلك يجب الوضع فى الاعتبار هذا عند محاولة تحرير ما تم تسجيله على جهاز الكمبيوتر .

إن الانطباع العام عن الريسيفر قم تم اكتماله باختيار الصوت الفرعى المصاحب للقناة و عرض الترجمة الفورية و دعم الريسيفر عرض الصورة عند الطلب و الديكودر المدمج لعرض قنوات المعلومات ، و إذا كنت من هؤلاء الذين لا يحبون الفترات الإعلانية فسوف تسعد بعرض (صورة داخل صورة) و هذه

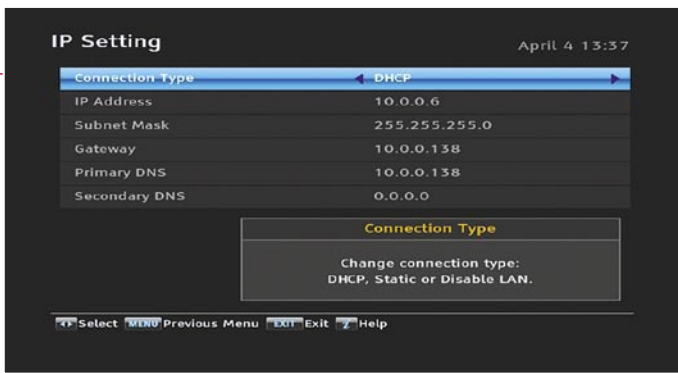
فان الريسيفر سوف يعرض معلومات إضافية عن البرنامج المعروض إذا كانت تلك المعلومات متاحة . و يظهر دليل البرامج الإلكتروني عن الضغط على زر Guide و قد قامت شركة Topfield بعمل تصميم جيد و سهل للمستخدم حيث تظهر معلومات لعدد سبعة أيام و طبيعيا تظهر هذه المعلومات فى حالي توافرها مع الإرسال .

و هناك طريقتين لعرض دليل البرامج الإلكتروني : الأول على شكل مربعات لعدد سبعة قنوات فى نفس الوقت و عرض مواعيد البرامج للثلاث ساعات القادمة و الطريقة الثانية عبارة عن خانات و لكن لعدد خمس قنوات و عرض مواعيد البرامج للأربع ساعات القادمة .

و عند عرض دليل البرامج الإلكتروني إذا تم الضغط على زر Info فسوف تظهر بيانات تفصيلية عن الحدث الذى اخترته و من خلال ذلك أيضا يمكن ضبط الميقاتى للتسجيل من دليل البرامج الإلكتروني مباشرة ، كما يمكن ضبط الميقاتى للتسجيل يدويا إذا لم تكن تريد التقيد بمواعيد الجدول المعروض ، إن ضبط الميقاتى يمكن أن يضبط يوميا أو أسبوعيا لعملية التسجيل الأتوماتيكية .

و كما هى عادة شركة Topfield فعند الضغط على زر OK يتم استدعاء قائمة القنوات ذات التصميم المريح و التى تتضمن أيضا العديد من خيارات التصنيف ، و يمكن أيضا للريسيفر عرض بيانات مقدم الخدمة الفضائية لكل قناة ، و يمكن من خلال الضغط على زر استدعاء القوائم المفضلة ، و يمكن ترتيب القنوات بالضغط على زر و سوف يقوم الريسيفر بعرض القنوات التى تبدأ بحرف A و عند الضغط على نفس الزر يقوم الريسيفر بعرض القنوات التى تبدأ بحرف B و هكذا ... و مع وجود الآلاف من القنوات

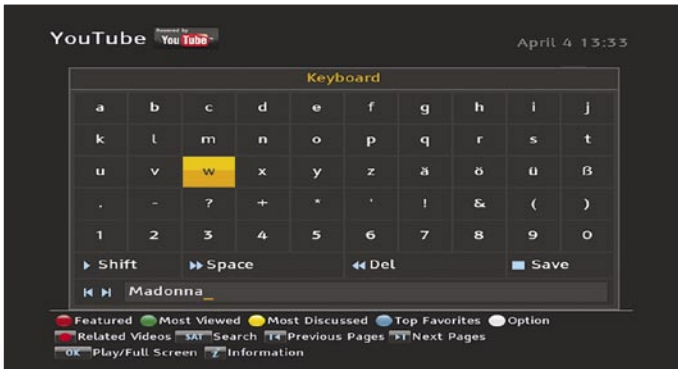




Network settings provided via DHCP |



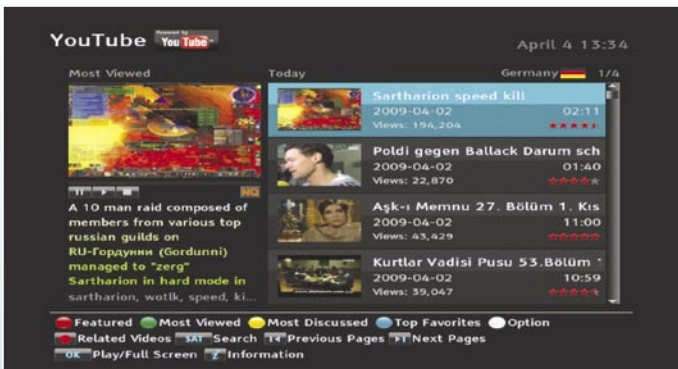
Weather forecast |



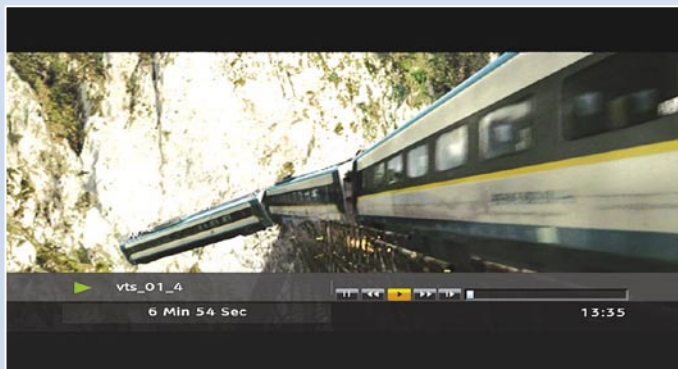
YouTube video search |



Battle Tank video game |



Most watched YouTube videos |



DivX playback |



MP3 jukebox |

و الشبكة و الإنترنت ، فيمكن للريسيفر TMS من خلال الإنترنت البحث عن ملفات الفيديو في موقع YouTube و عرضة على الشاشة المسطحة الكبيرة في غرفة المعيشة ، و طبيعيا تم تجربة هذه الميزة و قد عملت بنجاح .

يسمح للهواة تطوير و إضافة المزايا إلى جهاز الريسيفر ، و حيث أن شركة Topfield قد قامت منذ زمن بعيد عمل هذا البرنامج للأجهزة القديمة فهي لن تعمل مع الريسيفر الجديد TMS و لكن سوف تقوم الشركة بتطوير برنامج TAP للعمل مع الريسيفر TMS قريبا .

و يمكن للريسيفر TMS عرض محتويات موقع YouTube و عرض قائمة بملفات الفيديو الأكثر مشاهدته و أيضا يمكن مشاهدته الصور و مشاركتها مع أصدقائك .

و بالإضافة إلى ذلك يمكن استخدام الريسيفر TMS لتشغيل ملفات MP3 و معرض الصور و إذا كنت قد حملت أفلام DivX من الإنترنت فيمكن مشاهدتها على الريسيفر .

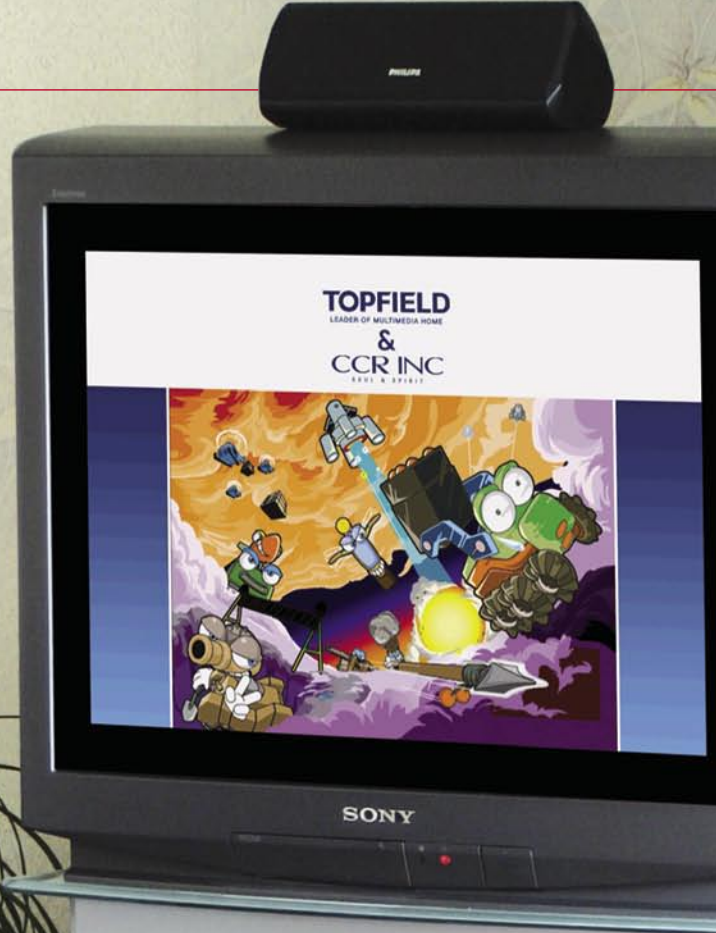
كما توجد لعبة Battle Tank التي يمكن لعبها في المنزل بمفردك أو مع صديق لك عبر شبكة الإنترنت .

إن الانطباع الذي لدينا هو أن المستخدم النهائي لن يفكر من أين تأتي الصورة التلفزيونية طالما أنها تأتي إلى شاشة التلفزيون بجودة . و هناك شيء أكيد : أن شركة Topfield سوف تصبح في مقدمة الشركات التي ابتكرت هذا التطور الجديد .

برنامج TAPs

لقد كانت شركة Topfield هي تول شركة منتجة أتاحت عمل برنامج

Life's really hard for a TELE-satellite test lab editor: Thomas in Vienna playing the Battle Tank network video game included with the TMS for this test report with TELE-satellite's Graphic Editor Barna in Budapest (big picture)



TOPFIELD

LATEST PRODUCTS AT THE ANGA CABLE 2009

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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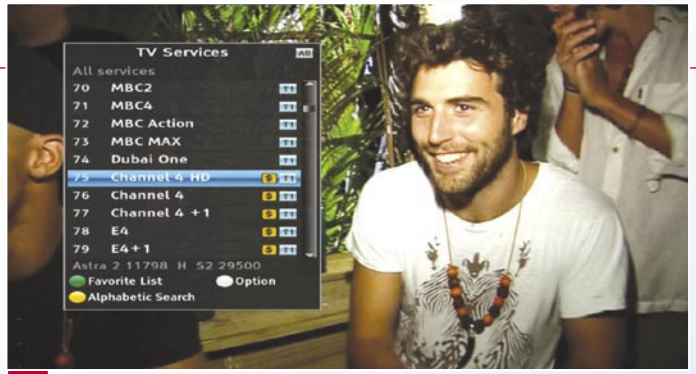
تعليق الخبراء



Thomas Haring
TELE-satellite
Test Center
Austria

إن الريسيفر Topfield TMS SRP-2100 هو في الحقيقة الجيل التالي من أجهزة الريسيفر فهو أول جهاز ريسيفر يجمع إمكانية مشاهدة القنوات التلفزيونية وأيضا الدخول على الإنترنت ، إن تشغيل الريسيفر سهل الاستخدام للجميع ويمكن تسجيل قناتين في وقت واحد بينما يتم مشاهدة قناة ثالثة ، و هذا ما يجعل الريسيفر TMS مثالي لجميع أفراد الأسرة قليلي الخبرة و ذوى الخبرة .

إن مروحة التبريد مع هذا الريسيفر و هو نموذج ميدني تصدر ضوضاء و لكن الشركة المنتجة أكدت لنا انه سوف يتم تغيير هذه المروحة بأخرى صامته و ذلك عند إنتاج الريسيفر بصورة تجارية ، و يفضل أن تزيد جودة وحدة التحكم عن بعد .



Topfield TMS channel list |



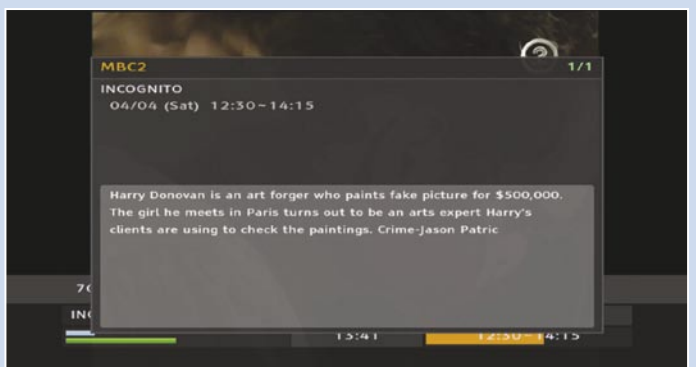
Channel list editing |



Channel list options |



Info bar |



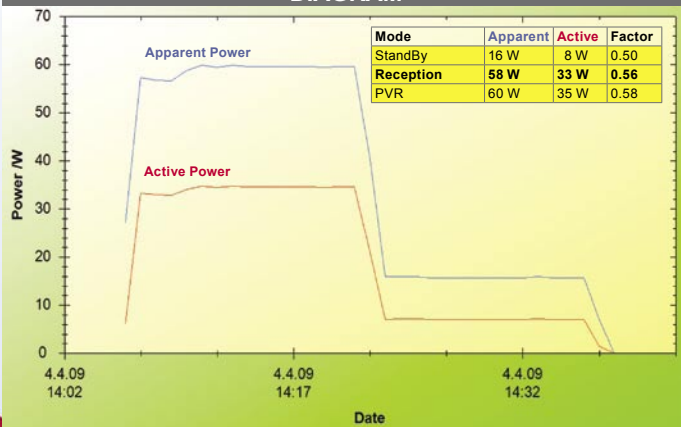
Extended info bar |

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

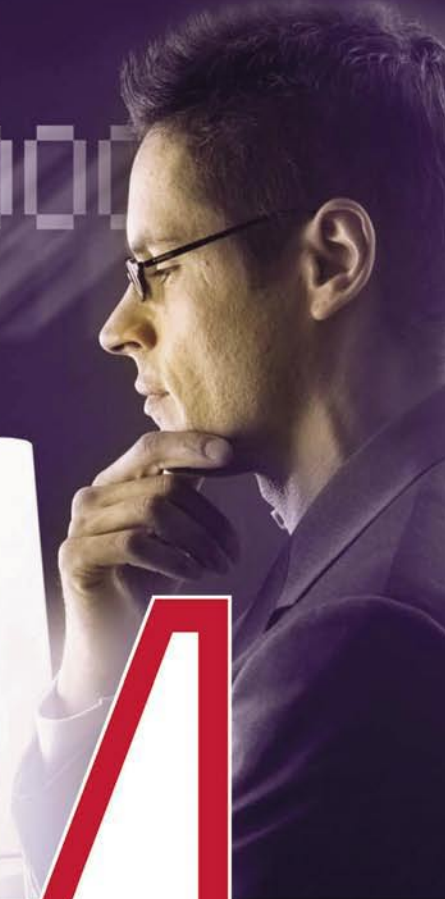
ENERGY DIAGRAM



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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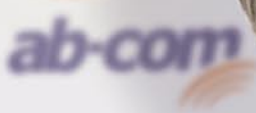
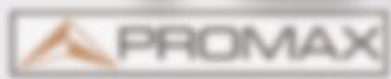
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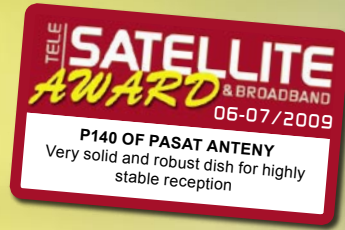
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طبق P140 من شركة Pasat Anteny طبق مضبوط البؤرة لاستقبال Ku-Band

عندما استلمنا الطرد لم نكن نعرف محتوياته ، فقد أتى إلينا صندوق خشبي ضخم يوزن 96 كيلو جرام و الذي احتل نصف حجم الجراج ، و بعد فحص الأوراق التي أتت مع الطرد وجدت انه فعلا مرسل إلى مركز اختبار مجلة تيلي ستلايت و عندها تذكرت إن السيد Alex رئيس تحرير المجلة قد أخبرني عن وصول طبق هوائي لإجراء الاختبار عالية من شركة البلغارية Pasat Anteny ، و سألت نفسي إذا كان الطرد كبير الحجم و متين فهل يعادل هذا قوة في التطبيق ؟ هذا كان هو السؤال و المفروض الرد عالية أثناء الاختبار .



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تم تسليم الطبق في صندوق خشبي قوى



مكونات الطبق ليست كثيرة...



... ولهذا فان عملية التجميع سهلة

للاستخدام مع الأطباق مضبوطة البؤرة و طبيعيا فان تركيب وحدة خفض شوشرة من النوع المستخدم على أطباق غير مضبوطة البؤرة لن تعطى نتائج جيدة عند تركيبها على أطباق مضبوطة البؤرة .

إن بوق التغذية مصمم لتركيب وحدات خفض شوشرة ذات شفة و لكن للأسف لم يكون هذا النوع موجود عندي وقت الاختبار و لكن الذى كان عندي هو وحدة خفض شوشرة Ku-Band مزودة ببوق تغذية (بمعدل خفض شوشرة 0.3dB) و كانت غليظة و لم تتناسب مع الحامل الذى أتى مع الطبق و كان على تركيب حامل بوق تغذية آخر يتناسب مع بوق التغذية الذى استخدمه و أخيرا تم التركيب و كنت مستعدا لإجراء القياسات .

و لقد دهشت عندما اكتشفت أن الطبق مصمم للتثبيت على صاري بقطر 70مم حيث أن الأقطار الأكثر شيوعا هي 60مم (و بالطبع 40مم بالنسبة للأطباق الصغيرة) و بعد تثبيت الصواميل وكان طول الصاري بالشكل الكافي و قررت عدم عمل صاري جديد و استخدام الصاري القديم بقطر 60مم و ذلك لعملية الاختبار الوقتية و لكنني انصح باستخدام القطر المناسب للطبق بقطر 70مم .

و لكن ماذا عن استقبال الإشارات الضعيفة ؟ لقد قمت بدراسة نطاق التغطية للعديد من الأقمار الصناعية من موقع و أدركت أن العيش فى بولندا و استقبال الأقمار الصناعية يعتبر متعه و لكن ليس من الضروري استخدام طبق بقطر كبير حيث أنها تقع فى منتصف أوروبا و الإشارات قوية لدرجة كافية لاستخدام طبق بقطر 90سم و ذلك لاستقبال معظم الأقمار الصناعية ،

أنني احتاج إلى شاكوش و عتلة لكي أتمكن من فتح الصندوق الخشبي و استخراج الطبق و المكونات الأخرى و قد تم ربط و تغليف جميع المكونات بكل حرص بحيث لا توجد أي فرصة لخدش الطبق أو المكونات أثناء النقل و لقد أعجبنى ذلك ، حيث أن المعدات الاحترافية فقط هي التى تغلف بعناية ، و عند استخراج جميع المكونات لاحظت أنها مكونات قليلة و من السهل تجميعها .

و على الرغم من حقيقة انه لا يوجد كتيب تركيب و لكن كان يوجد رسم يظهر كيفية تجميع الطبق ، و تمت عملية التركيب فورا و بطريقة أن أي شخص يمكنه تجميع الطبق فى وقت قليل جدا .

و عند وضع الطبق على الصاري و تم ربط الصواميل ، لاحظت أن الطبق متين و صلب ، و هذا مهم خصوصا بالمناسبة لطبق بمثل هذا الحجم ، إن زاوية الرؤية صغيرة جدا و أي ارتجاج صغير سوف يؤثر على الاستقبال بقوة .

و أتى الوقت لتركيب وحدة خفض الشوشرة و قد تم تزويد الطبق ببوق تغذية لوحدة خفض شوشرة من نوع Ku-Band و هذا البوق مخصص

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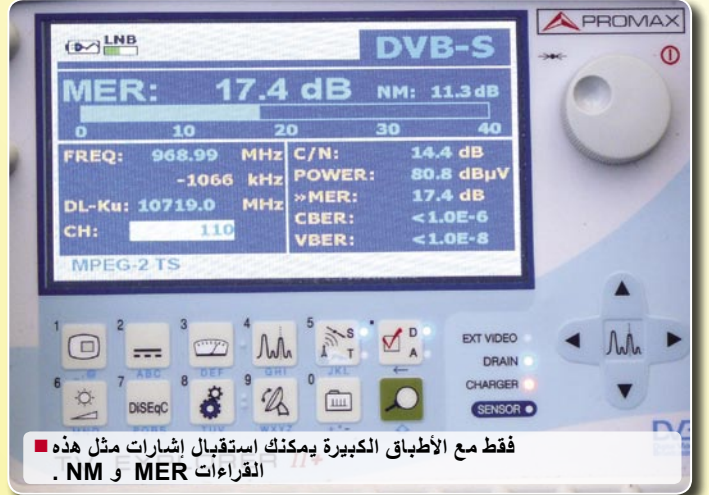
■ تم تركيب أذر صامولة لتثبيت الطبق على الصاري



■ لقد استخدمنا وحدة خفض شوشرة مزودة ببوق تغذية و لهذا لم يكن هناك حاجة إلى بوق التغذية و الحامل الأصلي



■ هذا هو حامل بوق التغذية



■ فقط مع الأطباق الكبيرة يمكنك استقبال إشارات مثل هذه القراءات MER و NM .



■ تم توجيه الطبق إلى القمر HOTBIRD عند 13 درجة شرق



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و كان هناك القليل من الأقمار التي لا تغطي موقعي بحيث أن طبق بقطر 140سم لن تكون كافية .

و كما توقعت أن جودة الإشارات كانت أفضل بشكل ملحوظ ، و كانت قيم MER أفضل ب 1-2 dB ، للطبق بقطر 0.9 متر و 3-4 dB للطبق بقطر 0.6 متر ، وربما أن بعض قراء المجلة سوف يتعجبون لذلك حيث إن مستوى الإشارات فى الطبق P140 المضبوط البؤرة من الأطباق الأصغر حجما ، فبالنسبة لاستقبال التلفزيون الرقمي يجب استخدام طبق بحجم أكبر (الشكل رقم 1) .

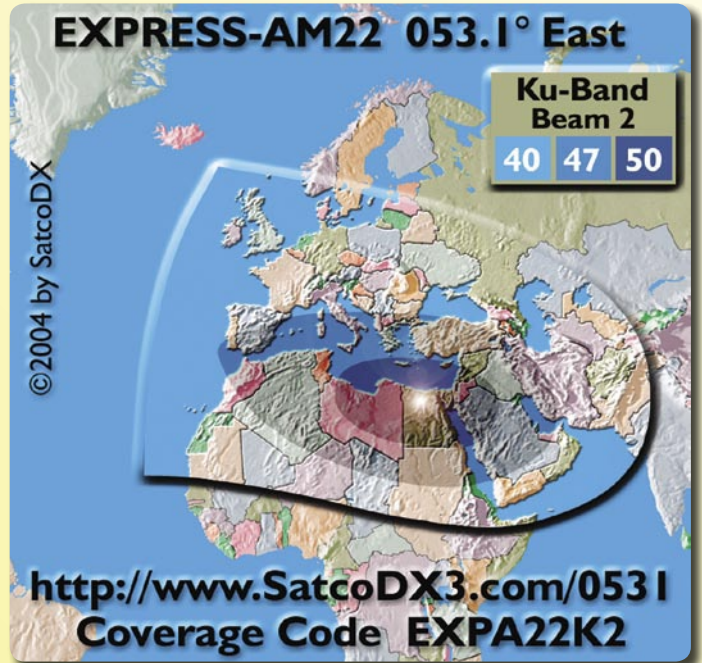
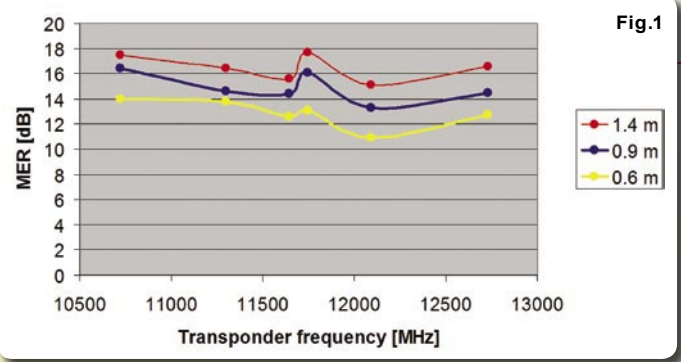
و عندما حاولت أن اوجه الطبق PASAT 140 إلي هذا القمر أدركت أن صامولة ربط زاوية التصعيد لتوجيه الطبق إلى القمر قصيرة جدا ، فأنا احتاج إلى زاوية تصعيد 21.4 درجة ، و لكن هذا كان خارج نطاق الطبق حيث أن الزاوية للطبق يجب أن تكون من 25 إلى 70 درجة ، و كان على خفض الطبق إلى أقصى درجة .

و بعد فعل هذا لاحظت طيف الإشارات للقمر EXPRESS AM22 على جهاز قياس الإشارات و كانت قراءات قيم C/N عند مستوى 8 dB ، و كانت أقل من القدر المناسب للاستقبال ، فقد 1 ديسيبل أو أكثر كان كافيا لمشاهدة القنوات .

و لكن كان هناك سوء حظ و أخيرا قررت إلى الانتقال إلى قمر ذات إشارات أقوى و هو القمر HOTBIRD عند 13 درجة شرق و قياس جودة الإشارات و مقارنة الطبق بأطباق أخرى بقطر متر 0.6 و 0.9 متر ، و قد تم تجهيز الأطباق بوحدة خفض شوشرة بجودة عالية

و اعتمادا على المقارنة بين القياسات يمكنني أن أقول أن الطبق P140 يحصل على درجة كسب عالية للإشارات و هذا يعنى أن تكوير سطح الطبق صحيح و أن الإشارات يتم تركيزها على بؤرة الطبق كما أن الطبق قوى و متين و يصمد لعدة سنوات .

إن أطباق شركة Pasat تتناسب مع الاحترافيين و المستخدم العادي إذا أراد إشارات ثابتة .



■ نطاق التغطية لهذا القمر لا يصل إلي مركز الاختبار و لكن طبق Pasat استطاع التقاط بعض الإشارات .

تعليق الخبراء

+ طبق قوى جدا و متين و جميع مكوناته تتناسب مع بعضها ، و يتم تغليف المكونات جيدا ، التصنيع العام لا يترك لديك شئ ترعبه .

- لا يوجد



Jacek Pawlowski
TELE-satellite
Test Center
Poland

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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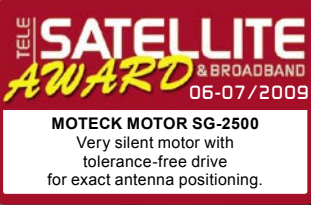
إن موااتير محرك الأطباق من الأفق إلى الأفق H-H بأقطار حتى 120 سم موجودة بالفعل في الأسواق منذ عشرة سنوات مضت ، و هي تسمح باستقبال جميع الأقمار الصناعية المتاح استقبالها من حيث موقعك ، إن التصميم الأساسي لهذه الموااتير ظل بدون تغيير كبير خلال تلك العشر سنوات ، و هذا ما سوف تلاحظونه في موتور شركة MOTECK الجديد و لكن دائما توجد مساحة للتطوير .

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Romanian	Românesc	www.TELE-satellite.com/TELE-satellite-0907/rom/moteck.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0907/rus/moteck.pdf
Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0907/sve/moteck.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0907/tur/moteck.pdf

Available online starting from 29 May 2009



إن الاختلاف بين هذا الموتور الجديد و أسلافه كان من الصعب ملاحظته عند فتح عبوة الموتور لأول مرة و لكن عندما بدأنا عملية التجميع ثبت لنا أن الموتور الجديد موديل SG-2500 مصنع من خامات عالية الجودة ، و مواد عازلة ضد الصدا و غير قابلة للصدا مما يضمن عزل قوى ضد رطوبة الطقس ، كما يوجد ميزان للضبط يسهل قراءته مما يسهل عملية توجيه الطبق إلى الجنوب (في نصف الكرة الشمالي) بسهولة و في نفس الوقت ضمان عملية التوجيه الدقيق .

الموتور موديل SG-2500 يعمل بدون مشاكل مع جميع بروتوكولات DiSEqC

لتحريك الطبق بأوامر DiSEqC الإصدار

DiSEqC H-H M



الذى يقوم باحتساب زاوية الدوران أتوماتيكيا لا تحتاج إلى أي أجهزة أخرى مساعدة ، و عموما فان تحريك الموتور بالإصدار 1.2 يظهر ضعفا فى بروتوكول DiSEqC إذا استخدمت الذاكرة الداخلية للموتور .

www.gaaps.com.tw أو moteck.com ، و يمكن استخدام برنامج USPOS السهل الاستخدام من موقع المجلة على www.TELE-satellite.com/Uspos.exe و مع استخدام الإصدار 1.2 و

1.0 إلى الإصدار 1.1 فأن الموتور MOTECK مزود بجهاز V-Box II أو جهاز DIGIBOX و التى تحتاجها لزاوية الدوران مثل قيم Goto-X . و يمكن احتساب زاوية الدوران باستخدام برنامج GAAPS المتاح على موقع الشركة على www.

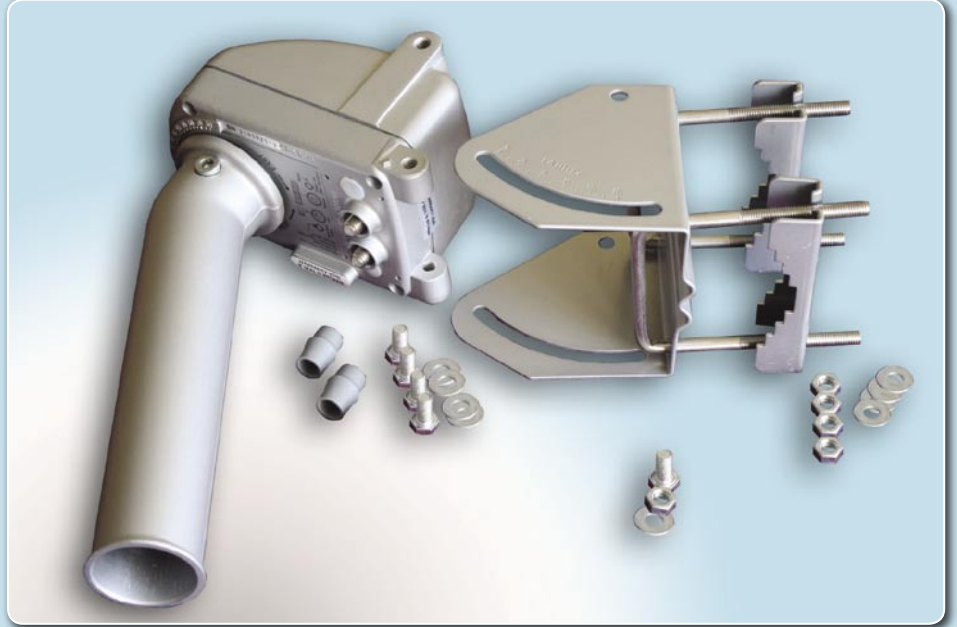
إن الذاكرة المستخدمة فى الموتور من شركة MOTECK مثلها مثل الشركات المنتجة الأخرى فليديها ذاكرة لعدد 60 موقع و لكن هذه الذاكرة غير معتمد عليها حيث إذا حدث إعادة ضبط للموتور سوف تفقد جميع هذه المواقع و هذا يعنى أن جميع مواقع الأقمار التى تم تخزينها سوف تفقد .

و لكن المشكلة ليست مشكلة الذاكرة فقط حيث أن أول عدد 26 موقع للأقمار يتكون من خانات مضبوطة مسبقا و التى للأسف لا يمكن استخدامها فى الحياة العملية ، كما أن الريسيفر لا يعدد بترقيم موقع الأقمار الصناعية المخزنة على الموتور و لكن الريسيفر يقوم بعمل بيانات خاصة به لتحديد المواقع .

و لكي تحصل على تخزين لمواقع الأقمار الصناعية آمن و معتمد عليه يجب أن تعتمد على جهاز الريسيفر و ليس على الموتور ، كما أن بعض أجهزة الريسيفر التى تستخدم بروتوكول DiSEqC 1.2 يوجد بها قائمة Goto-X ، و لكن أجهزة الريسيفر التى تعمل ببروتوكول DiSEqC 1.3 أو ما يسمى USALS تعمل بشكل أفضل ، حيث يوجد احتساب أتوماتيكى لزاوية الدوران لخط الشفق و يتم تخزين هذه الزوايا و إرسالها إلى أوامر Goto-X ، و بالطبع فان الموتور الجديد موديل SG-2500 يمكنه فهم أوامر Goto-X و لذلك فهو متوافق تماما مع أجهزة الريسيفر تلك.

إن عملية تركيب الموتور إلى طبق الاستقبال أمر سهل

إن الموتور الجديد MOTECK SG-2500 يمكن تجميعه بسهولة بمساعدة مفتاح 13 مم ، و يمكن تثبيت الموتور SG-2500 بأى صاري بقطر من 35 إلى 65 مم و لضمان الثبات يجب أن لا يقل قطر الصاري عن 50 مم و هذا أيضا هو القطر الذى ترشحه شركة MOTECK للموتور .



المكونات قبل التجميع



ميزان زاوية التدوير للموتور



ضبط زاوية خط العرض للموتور



تثبيت الموتور إلى الصاري

للقمر الصناعي إما يدويا أو عن طريق استخدام قوائم الريسيفر الذي يظهر استقبال الإشارات ، ولكن إذا كان جهاز الريسيفر غير موجود بنفس مكان التركيب فإن هذه الإمكانية تكون غير متاحة ، فيجب استخدام جهاز إيجاد إشارات الأقمار من أي نوع رخيص الثمن و سوف تحتاج هذا الجهاز مرة أخرى فهو مفيد في حالة هبوب عواصف و تحريك مواقع الموتور فسوف تستخدمه لإعادة الضبط .

السواقة المعدنية الداخلية للتحريك تعمل بصمت و بمنتهى الدقة

إن سواقة التحريك المعدني الداخلي المستخدم في الموديل الجديد MOTTECK SG-2500 تعتبر ابتكارا جيدا يضاف إلى الأسواق ، إن الاختبار أثبت أن هذا الموتور الجديد يقلل من مستوى الضوضاء للتحريك الكامل في القوس من 75 درجة شرق إلى 75 درجة غرب بدون استهلاك أي طاقة إضافية أكثر من الموتور المستخدمة من قبل ، و هذا يجعل عملية تحريك الطبق غير مسموعة للجيران .

و اظهر الاختبار أيضا ضعف السواقة السابق لم يعد موجودا مع الموديل الجديد ، و نشكر الابتكار الجديد الذي سمح بتوجيه الطبق إلى الأقمار بدقة متناهية حتى في تلك الأقمار التي تبعد عن بعضها بمقدار ثلاثة درجات فقط ، كما أكد لنا الاختبار أيضا انه لم يتم استقبال قنوات من أقمار مجاورة بعد الآن ، و أمكن تحسين استقبال النواقل ذات الإشارات الضعيفة نتيجة لدقة التوجيه .



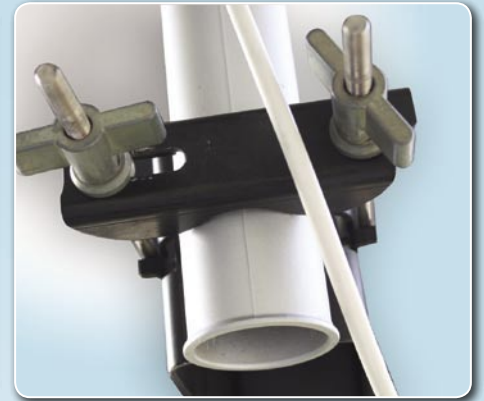
وضع علامة لتوجيه الموتور إلى الجنوب على الصاري



قيم زاوية التصعيد للضبط على الطبق



دليل توجيه الطبق إلى الجنوب



دليل توجيه الطبق

و الاحتساب يكون كالآتي :-

$$\text{Scaling value} = \text{latitude} - 60^\circ + (\arctan((\cos(BG) - 0.151) / \sin(BG)))$$

و عند الانتهاء من توجيه الطبق (حتى قطر 120سم أو الطبق المسطح) إلى هذه القيم يمكن الحاققة بالموتور ، و في معظم الحالات لن تحصل على استقبال فوري للقنوات من الطبق ، فيجب أولا على الموتور أن يدور إلى زوايا الضبط

و عند تركيب الموتور على الصاري أفقيا بدقة ، كان علينا إيجاد الاتجاه الجنوبي و وضع علامة على الصاري بقلم ، إن الموتور يأتي مضبوط على الموقع صفر بحيث يمكن توجيه الموتور بسهولة .

إن الكتيب التشغيلي مكتوب باللغة الإنجليزية و يوجد به شرح لعملية التركيب و التوجيه و أيضا يوضح به قيم زوايا التصعيد للطبق مع موقع خط العرض و يمكن احتساب هذه القيم بواسطة إلى حاسبة للمثلثات .





Difference from your competitors



Colorful Mesh Dish as you need

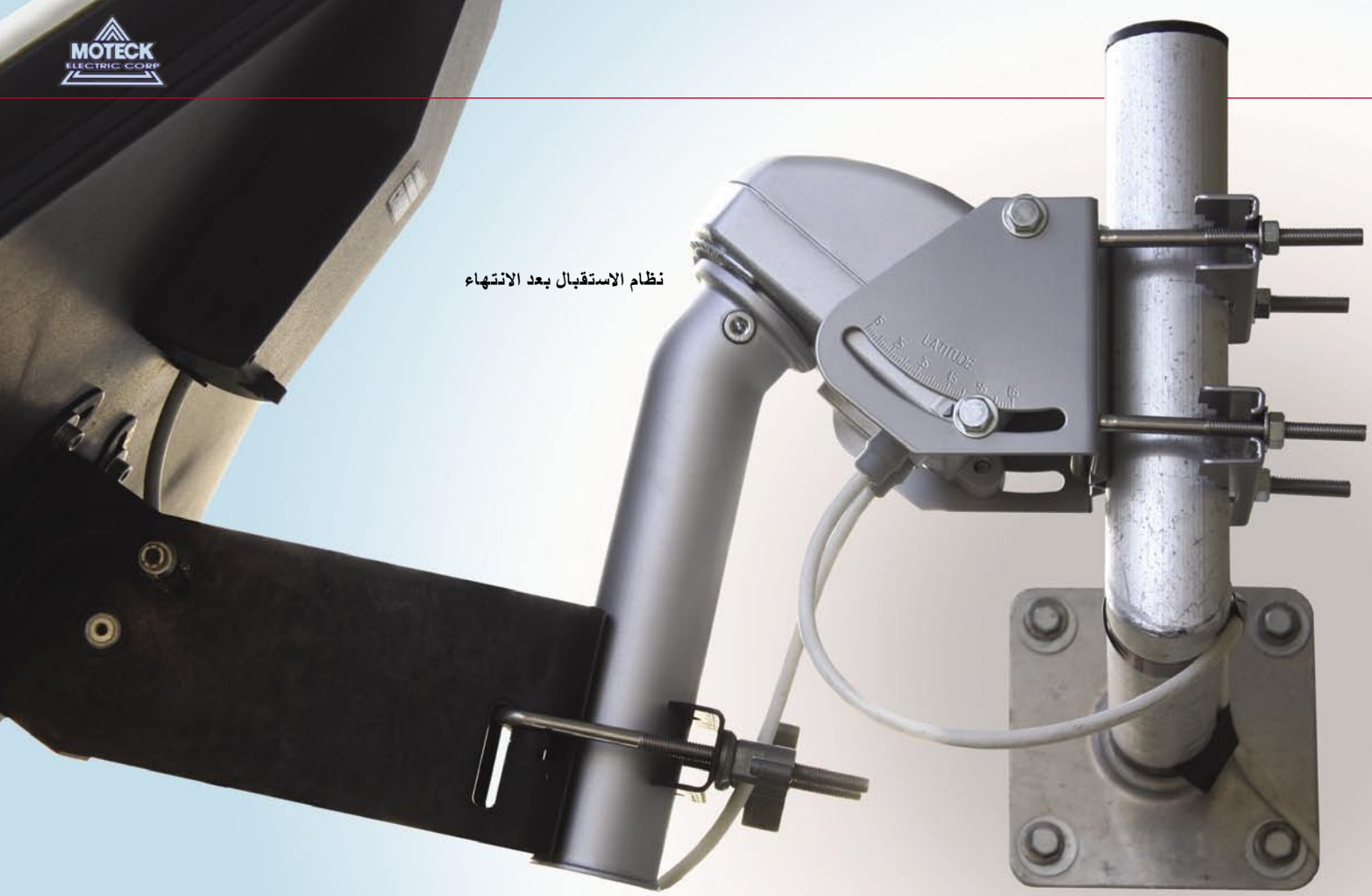
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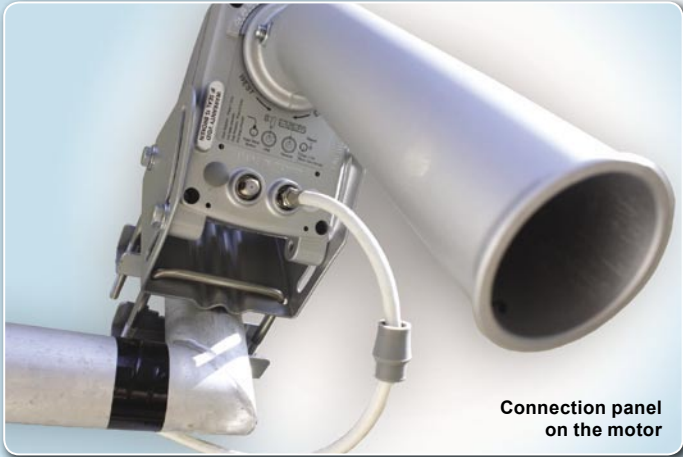
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نظام الاستقبال بعد الانتهاء



إن الموتور MOTECK SG-2500 الجديد يعتمد على آلية ولا يصدر صوتاً ، ولا يوجد به انحراف ودقيق التوجيه مما يضمن أفضل درجة من الاستقبال ، ومع استخدام جهاز ريسيفر يعمل بنظام DiSEqC 1.3 فأنة يمكن تشغيل الموتور أوتوماتيكياً بالكامل .



Connection panel on the motor

تعليق الخبراء

+

حماية تامة ضد التآكل ، يعمل بدون صوت ، دقة التوجيه مع عدم انحراف الطبق ، مناسب للاستخدام في نصف الكرة الشمالي والجنوبي .



Heinz Koppitz
TELE-satellite
Test Center
Germany

-

كثير التشغيل اليدوي متاح فقط باللغة الإنجليزية
ذاكرة مواقع الأقمار بالموتور غير حديثة .

What does USALS mean, and what is GAAPS?

Both terms designate calculation methods for automatic positioning of satellite antennas. The position of each satellite is given as the angle between the zero meridian and the orbital position. This angle value is geocentric, however, meaning that it is calculated with the centre of the earth as pivot point.

For the horizon system of the actual location – which differs for each location – this angle value has to be re-calculated in order to receive the actual alignment direction for a given satellite.

Italian actuator manufacturer Stab was the first to suggest integrating this complex re-calculation of geographic coordinates in receivers and coined the term USALS, which stands for Universal Satellite Automatic Location System.

MOTECK chose the abbreviation GAAPS for its re-calculation formula, which stands for Global Automatic Antenna Positioning System.

The re-calculation of coordinates is not, however, an additional feature implemented at motor level, as the motor receives its control data with the regular Goto-X commands of the DiSEqC 1.2 protocol. Therefore, the re-calculation is performed by the receiver.

Yet, even if the routine for automatic positioning is implemented in receivers, they may not always carry the registered USALS logo. Very often it is necessary to consult the manual to find out whether or not they provide this feature.

Some receivers – and motors, for that matter – simply state "compatible with DiSEqC 1.3" or "compatible with Goto-X".



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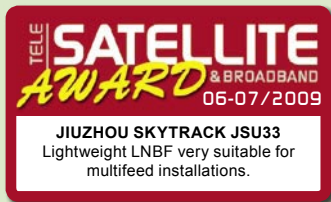


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وحدة خفض الشوشرة Jiuzhou Skytrack JSU33 لنظام الاستقبال المتعدد التغذية

إذا سألت هواة استقبال الأقمار الصناعية عما هو أهم شئ عند اختيار وحدة خفض شوشرة لاستقبال فان الرد سيكون في الغالب هو قدرة كسب التحويل و خفض الشوشرة ، الأول يجب أن يكون في أعلى درجة و الثاني يجب أن يكون في اقل درجة ، إن معظم قراء المجلة يعرفون معنى قدرة كسب التحويل هي أن الإشارات الخارجة من مخرج وحدة خفض الشوشرة عالية فمع استخدام كابلات طويلة أو سويتشات فلا نخشى من ضعف الاستقبال كثيرا .



السيد Jacek Pawlowski من فريق اختبار مجلة تيلي ساتلايت يقوم بتركيب وحدة خفض الشوشرة الجديدة Skytrack من شركة Jiuzhou إلي طبق غير مضبوط البؤرة موجة إلى القمر HOTBIRD عند 13 درجة شرق ، إن وحدة JSU33 صغيرة الحجم وخفيفة الوزن بشكل مدهش .



Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0907/ara/jiuzhou.pdf
Indonesia	Indonesia	www.TELE-satellite.com/TELE-satellite-0907/bid/jiuzhou.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0907/bul/jiuzhou.pdf
Czech	Česky	www.TELE-satellite.com/TELE-satellite-0907/ces/jiuzhou.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0907/deu/jiuzhou.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0907/eng/jiuzhou.pdf
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Farsi	فارسي	www.TELE-satellite.com/TELE-satellite-0907/far/jiuzhou.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0907/tra/jiuzhou.pdf
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Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0907/hrv/jiuzhou.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0907/ita/jiuzhou.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0907/mag/jiuzhou.pdf
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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0907/sve/jiuzhou.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0907/tur/jiuzhou.pdf

Available online starting from 29 May 2009

Transponder	Pol.	Freq.
Tr-1	V	10719
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

الجدول رقم 1 : النواقل التي تم إجراء اختبار استقبالها

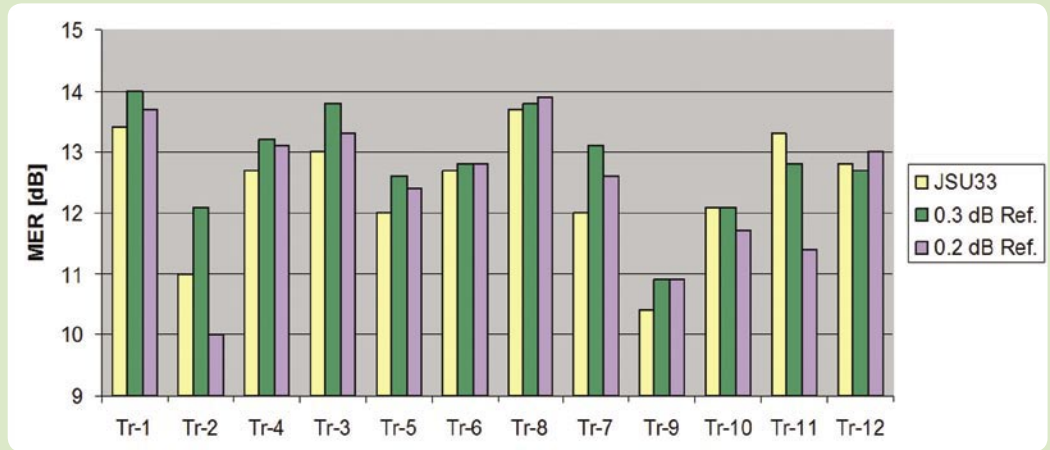
بينما يوجد 8 ترددات منخفضة للنواقل فان أداء خفض الشوشرة للوحدة كان الأسوأ لبقية الوحدات ولكنها تغلبت على الأقل في الأربعة ترددات الباقية مثل التردد للنواقل (Tr-11) و كما ترى فان وحدة خفض الشوشرة 0.2 dB لم تكن افضل من وحدة خفض الشوشرة 0.3 dB ! و كما قلنا من قبل فان معدل خفض الشوشرة ليس هو المقياس الوحيد لاختيار وحدة خفض الشوشرة و لكن اختبار الاستقبال الحقيقي يمكنه كشف كل شيء .

و ماذا عن العوامل الأخرى ؟ تم توضيحها في الشكل رقم 2 ، و هنا تجد الموقف قد تغير على النقيض فان وحدة خفض الشوشرة JSU33 تغلبت على الجميع بالنسبة للنواقل 11 و 12 فان قوة خرج الإشارات كانت أعلى من الوحدات الأخرى المنافسة ، و هذا حقيقي خصوصا لوحدة خفض الشوشرة 0.3 dB التي كانت الفائزة بمعدل خفض الشوشرة .

فما هي النتائج التي يمكن أن نستخلصها من هذه النتائج ؟ إن نقطة القوة في وحدة خفض الشوشرة JSU33 هي قوة مخرج الإشارات ، و لهذا فهي اختيار جيد لنظام الاستقبال المتعدد التغذية عند استخدام سويتشات و كوابل طويلة لتوزيع الإشارات للعديد من أجهزة الريسيفر ، و الميزة الأخرى أن الوحدة صغيرة الحجم و ذات وزن (100 جرام فقط) و ذلك بمقارنتها بالوحدات الأخرى المماثلة .

مواصفاتها أنها تعمل على قدرة خفض شوشرة 0.6 dB و قد قمنا بمقارنتها وحدتي خفض شوشرة الأول بقدرة خفض شوشرة تقول مواصفاتها أنها تعمل بقدرة خفض شوشرة 0.3 dB و الأخرى تقول مواصفاتها أنها تعمل بقدرة خفض شوشرة 0.2 dB .

و لغرض الاختبار قمنا باختيار الاستقبال من القمر HOTBIRD عند 13 درجة شرق و كما هو موضح في الجدول رقم 1 ترى بيانات الترددات التي قمنا باختبار استقبالها ، و كما ترى هناك 3 نواقل لكل حزمة فرعية (المرتفعة / المنخفضة) و لكل قطبية



الشكل رقم 1 : مقياس MER لعدد اثني عشر ناقل مختلف من القمر HOTBIRD عند 13 درجة شرق .

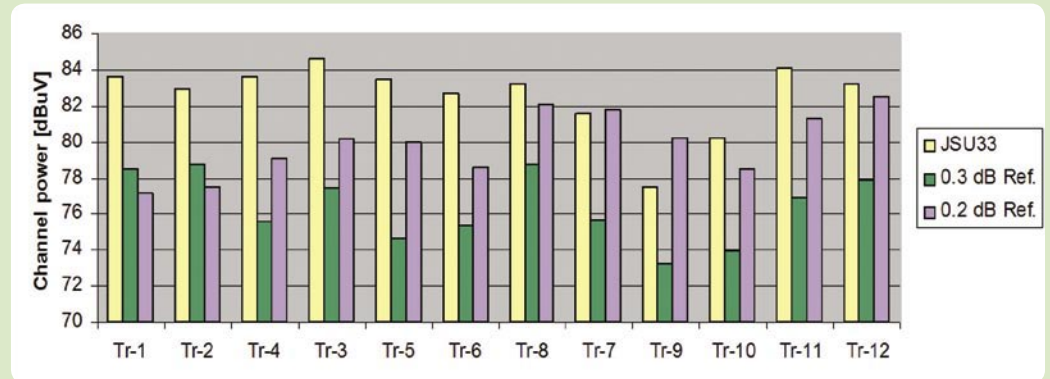
، و بهذه الطريقة قمنا بفحص الأداء للمذبذب المحلي : 9750 و 10600 ميگاهيرتز في كلي القطبيتين : الأفقية و الرأسية و في منتصف و نهاية عرض الحزمة الفرعية . و الشكل رقم 1 يظهر أداء خفض الشوشرة لجميع الوحدات ، و الأداء الأفضل لخفض الشوشرة لوحدة خفض الشوشرة هي القيم الأعلى .

المتجاورة يجعل الأمر صعبا على وحدة خفض الشوشرة و يقلل من أداء خفض الشوشرة .

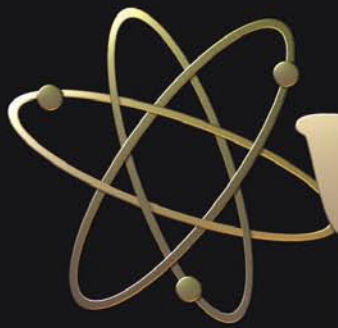
و في اختبارنا نقوم بمقارنة الأداء الفعلي لوحدة خفض الشوشرة مع وحدة خفض شوشرة أخرى متاحة في الأسواق ، و هذا ما فعلناه مع وحدة خفض الشوشرة Jiuzhou: Skytrack JSU33 التي تقول

أيضا تضمن هامش جيد من الاستقبال في حالة الطقس السيئ، و لكن للأسف فان درجة خفض الشوشرة الحقيقي لوحدة خفض الشوشرة لا يمكن تذبئة ، فهناك عدة عوامل تتدخل في قدرة خفض الشوشرة .

هذه العوامل هي: مرحلة الضوضاء في المذبذب المحلي لوحدة خفض الشوشرة و عازل القطبية العكسي



الشكل رقم 2 : مقياس قوة مخارج وحدات خفض الشوشرة .



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<http://subursmt.com>
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تعليق الخبراء

+

خفيفة الوزن ، صغيرة الحجم و مناسبة لنظام الاستقبال المتعدد التغذية ، مخارج الإشارات قوية ، صناعة جيدة .



Jacek Pawlowski
TELE-satellite
Test Center
Poland

-

ليست اختيار هواة اصطيد الإشارات الضعيفة .

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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 Tel: 886-3-3611393 Fax: 886-3-3615877



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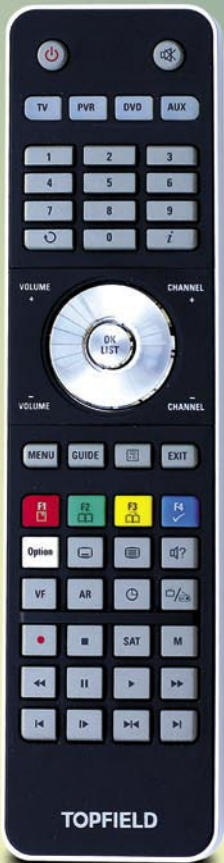
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Manufacturer	Topfield
Website	www.topfield.co.kr
Function	Digital HDTV DVB-S2 Receiver with Various Multimedia Features
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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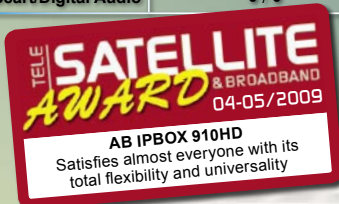
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TOPFIELD



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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AB-COM

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	— / —
Scart/Digital Audio	• / •

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04-05/2009

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OPENSAT

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

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02-03/2009

TOPFIELD TF6000PVR ES
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TOPFIELD



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



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DiziPiA
MADE IN KOREA



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



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JIUZHOU



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



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



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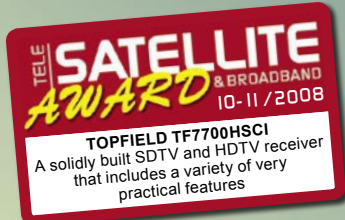
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Manufacturer	Topfield
Website	www.topfield.co.kr
Function	HDTV PVR Satellite Receiver
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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



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



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



Manufacturer	PT. Subur Semesta
Website	www.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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10-11/2008
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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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 A huge range of connection options make this box a true all-rounder – yet it remains easy to use as a family receiver.

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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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06-07/2008

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

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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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04-05/2008

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Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0805/bul/nanoxx.pdf
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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	• / •
Scart/Digital Audio	• / •



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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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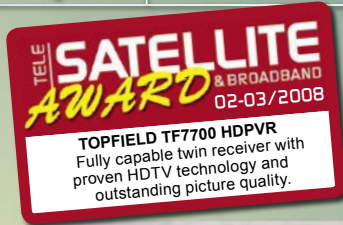
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OPENSAT



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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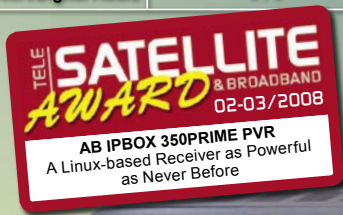
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Swedish	Svenska	www.TELE-satellite.com/TELE-satellite-0803/sve/topfield.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0803/tur/topfield.pdf



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

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ARION

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	- / -

Main Menu
 >>Channel Search
Digital Video Broadcasting

P:84% Q:58% playing
 >>1.Pgm1
Digital Video Broadcasting

P:93% Q:25% playing
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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	• / •



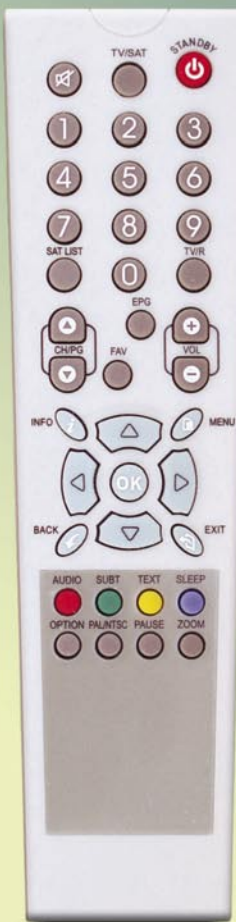
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JIUZHOU



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



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



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السيد **Niran Tangpiroontham** (على اليسار) مالك و مدير شركة **INFOSAT** والسيد **Alexander Wiese** (على اليمين) مدير تحرير مجلة تيلني ستلايت يقفان أمام مقر شركة **INFOSAT** في **Nontaburi** وهي ضاحية غرب بانكوك .

حتى تلك الأطباق التي القديمة التي تستقبل **C-band** مازال يمكن تطويرها ، فمُنذ اشهر قليلة مضت قامت الشركة التايلاندية **INFOSAT** بتقديم طبق بقطر 1.5 متر عبارة عن قطعة واحدة إلى الأسواق و النتيجة كانت النجاح الفوري لهذا المنتج ! إن قوة النجاح لهذا المنتج الجديد هو السيد **Niran Tangpiroontham** مؤسس و مالك شركة **INFOSAT** . و لقد قامت مجلة تيلني ستلايت بنشر تقرير عن السيد **Niran** و أفكاره الجديدة في العدد **02-03/2007** و العدد **02-03/2008** و احدث تقرير عن شركة **INFOSAT** في بداية عام **2008** حيث يوجد صورة له وسط موقع فارغ . و لقد كان هذا في السابق و الآن فيوجد في الموقع الفارغ مصنع جديد و هو المصنع رقم **2** لشركة **INFOSAT** ، هذا ما أفاده السيد **Niran** بكل فخر ، و يشير إلى عمال التركيب حيث يضعون اللمسات النهائية ليكون المصنع جاهز للإنتاج ، و مع طباعة هذا العدد فسوف يكون المصنع مدار بالكامل ، إن المصنع رقم **1** محدود و قد بدأ إنتاج الطبق المسمى ذات المقطع الواحد منذ أسابيع قليلة فقط .

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، إن القائمين على
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هذه الأطباق الجديدة و
حيث أن الطبق قطعة
واحدة فهم لا يقضون
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الأفقية و الرأسية بينما وحدة خفض الشوشرة Ku بها مخرج
للقطبية الرأسية فقط ، حيث سوف تستخدم في السوق المحلية
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يوفر حيث استثمرت ثمن شراء مصنع جديد في
شراء ماكينات إنتاج جديدة ، و يفصح السيد
Niran عن خطته الجديدة ، لقد كانت لديه
القدرة على الحصول على عدد 2 ماكينة ثقب
جديدة ليصبح العدد خمسة ماكينات و التي
تستخدم لثقب ألواح الألمنيوم بسلك 0.5 مم و
التي تستخدم في الأطباق الشبكية ذات المقاطع .

و لكن الاستثمار الأكبر حتى الآن كان في شراء
نظام رش للأطباق و قد تطلبت هذه الماكينات
الجديدة استثمار بقيمة 400,000 دولار
أمريكي ، و أفاد السيد Niran إن المصنع رقم 1
يقوم بعملية الإنتاج و تجميع الأطباق بينما يقوم
المصنع رقم 2 في عمليات رش و طلاء المنتج
النهائي من الأطباق و عملية التعبئة و التجهيز
للسحن .

كل هذه الاستثمارات تجعلك تقف و تفكر هل
تخطت تايلاند الأزمة الاقتصادية العالمية ؟ ليس

■ أول خطوة لتجميع
الطبق المفرد لشركة
INFOSAT ، يتم
لحم إطارات الطبق مع
بعضها على طاولة
دائرية ، و العمال في
الخلف يقومون بتركيب
اللوحة الداعمة في
المنتصف .

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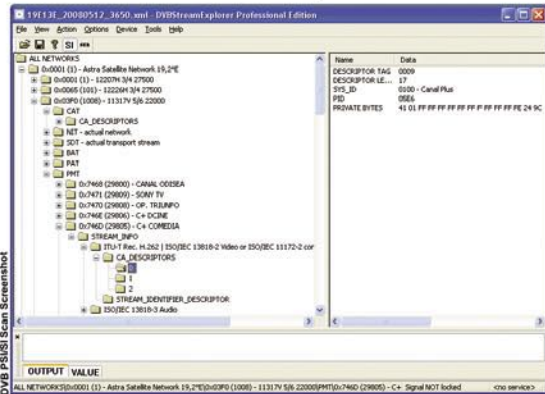
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DVBStreamExplorer™

MPEG2/DVB Transport Stream Analyzer

Feature Summary

- ✓ MPEG2/DVB/ATSC PSI/SI/PSIP scanning
- ✓ Stream demuxing and capturing to disk
- ✓ DVB DSMCC scanning
- ✓ TeleText Analyzer
- ✓ DVB MPE scanning
- ✓ Service Player
- ✓ Real-time Transport Stream Monitor
- ✓ Saving of collected information as text/CSV
- ✓ Supports most BDA compatible devices and specific non-BDA devices*



DVB PSI/SI Scanning

- Scanning of PSI/SI information as defined in ISO13818-1 and EN 300 468.
- Parsing of PAT, CAT, BAT, NIT, SDT, EIT, TDT, TOT, RST, AIT (MHP), PMT and INT tables, including most descriptors.
- Display SI information in tree/list view.
- Unattended scanning of multiple MUXes, i.e. multiple transponders on multiple satellites.

DVB Service Viewer

- View DVB service information of collected PSI/SI data.
- Organize service view by satellite position, network ID, provider and alphabetic.
- Apply filter to easily locate services with interesting properties, such as MHP, AC3 and H.264 streams.

ATSC PSI/PSIP Scanning

- Scanning of PSI/PSIP information as defined in tables defined in ISO13818-1 and A/65C.
- 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.

Real-time Transport Stream Monitor

- Full parsing of PAT, PMT, CAT, NIT, SDT, BAT, TOT, TDT and EIT PSI/SI tables.
- Summary of services on current MUX including key parameters.
- Summary of services on other MUXes.
- Logging of MPEG2 A/V, H.264 and AC3 elementary stream key parameters.
- List of MUXes from NIT including key parameters.
- Summary of CA (EMM/ECM) information including key parameters.

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** Specific features are only available in DVBStreamExplorer Professional Edition.

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■ يتم ربط الأجزاء الشبكية إلى إطار الطبق - طبق INFOSAT بقطر 1.5 متر تم الانتهاء من تجميعه .



■ جاهز للشحن : تم وضع عدد ثلاثة أطباق في عبوة واحدة ، و ترى السيد Niran يمسك إحدى تلك العبوات ، و يتم وضع 20 عبوة إلى بالته و هذا العدد هو أقل كمية يتم شحنها دوليا ،

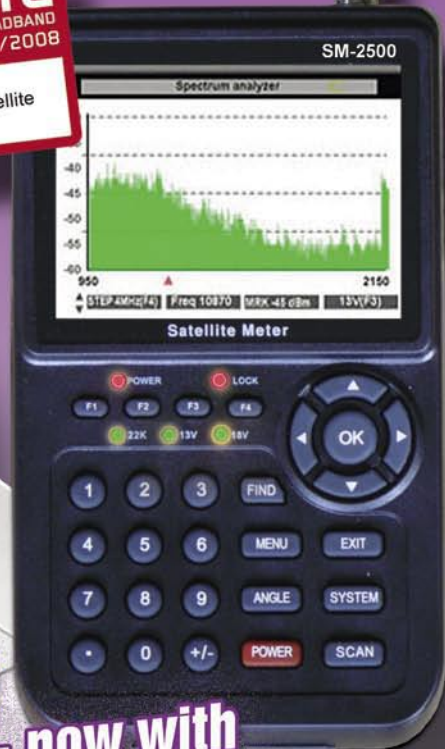
على الإطلاق " هذا رد السيد Niran " لقد حدث هذا في شهر سبتمبر الماضي حيث قلت عقود الشراء للأطباق و لم يكن لدى أي فعل ، و قد بدأ العمال في القلق و لكنني أتيت بحل " إن أسعار الألومنيوم و الحديد قد انخفضت و هي من أهم معادن صناعة الأطباق و في 1 يناير 2009 قمت بتخفيض سعر الأطباق 10% و هذا جعل طلبات الشراء تزداد ، و الآن نجد أنفسنا نعمل سبعة أيام في الأسبوع لكي نقوم بتصنيع جميع الطلبات ، هذا ما أفاده السيد Niran و السعادة على وجهه و هو مقتنع بتخفيض السعر ، و لقد كانت الأطباق المنتجة في نهاية عام 2008 مكدسة في المخازن و الآن تباع جميع الأطباق فور إنتاجها ، و على الموزعين الانتظار حتى شحن الطلبات لهم ، و شركتنا هي أول شركة كانت قادرة على صناعة 10,000 طبق في شهر واحد ، و مع تشغيل المصنع الثاني ستزيد طاقة المصنع الإنتاجية إلى 15,000 طبق في الشهر .

و يقول Niran إن الأزمة الاقتصادية العالمية لها أيضا مزاياها ، الآن لم تقل أسعار المواد الخام بل أيضا الرواتب " 70% من موظفين الشركة كان عندهم الولاء و البقاء في الشركة رغم انخفاض الرواتب بينما 30% لم يترددوا في الذهاب إلى شركات أخرى حتى إذا كانت توفر 1% زيادة في الراتب فقط ، إن ولاء الموظفين شيء ضروري للشركة فهم عبارة عن 60 عامل في المصنع و 30 موظف إداري .

و عند موعد الغداء في مطعم Chao Praya الذي هو بجوار المصنع الثاني و الذي يبعد حوالي 20 كيلو متر من بانكوك العاصمة ، شرح لنا السيد Niran خطته عن المستقبل : إن أكثر أجهزة الريسيفر مبيعا و شعبية في تايلاند هو ريسيفر ZIMPLE Box 4 حيث يباع أكثر من 30,000 ريسيفر في الشهر ، حتى الآن حصل على هذا الريسيفر طبقا للمواصفات التي اطلبها من الصين و ادفع 20% رسوم جمركية و الريسيفر مطبوع عليه " صنع في الصين "

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Produkt Informationen @ YouTube

<http://www.nanoxx.info>
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NanoXX Produkte

- NanoXX 9300C (Kabel Receiver)
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- NanoXX 9800HD (Twin-HDTV USB-PVR Sat.-Rec.)

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القرنفلي ، إن
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من الأطباق بدون
تلوين و الطلب الأغلى
ثمننا حوالي 35%
من الأطباق باللون
الأسود و توجد ألوان
أخرى توفرها شركة
INFOSAT
لرغبات العملاء .



■ حاليا ، مازال الريسيفر **ZIMPLE 4**
يصنع في الصين طبقا لمواصفات شركة
INFOSAT ، قبل تسليم أجهزة الريسيفر
إلى العملاء يتم وضع البرنامج التشغيلي
الخاص بشركة **INFOSAT** الإصدار **H20** و
أيضا تحديث بيانات النواقل في الريسيفر .



■ مصنع **INFOSAT**
الثاني الجديد ، و الذي
سيدخل الخدمة مع
طباعة هذا العدد من
مجلة تولى ستلايت .



■ قسم الشحن : هنا يتم تجهيز طلبات الموزعين يوميا .

و لكن إذا قمت باستيراد الريسيفر كسلعة نصف مصنعة يمكنك أن ادفع فقط 10% جمارك و أقوم بتجميعه في تايلاند و يصبح " صنع في تايلاند " و هذا ما يفكر في عملة السيد Niran ، و في نفس الوقت يفكر المصاريف الإضافية المتعلقة بتلك الفكرة ، و الآن يفكر في إتمام هذا الأمر من عدمه ، هل يقوم بتجميع الريسيفر أو يكتفى بالاستيراد المريح فقط ، و لم يقم السيد Niran بحزم هذا الأمر بعد ، و لكن انتظر .. إذا نظرت إلي المصنع الجديد ستجد مساحة محجوزة كخط تجميع لأجهزة الريسيفر ...

و يريد السيد Niran الوصول إلى هدفه لتحقيق طموحاته ، و على الرغم من أن عام 2009 مصنف رسميا كعام ركود اقتصادي فان الشركة حققت في عام 2008 مبيعات ب 10 مليون دولار أمريكي و في عام 2009 يتوقع زيادة قدرها 20% ! إن فرصته لتحقيق أهدافه جيدة حقا !



■ ترى العمال هنا مشغولين بتركيب نظام الرش الجديد و الذي سيتم تشغيله بالكامل وقت طباعة هذا العدد من مجلة تيلني ستلايت .

هواة استقبال جدد : القنوات الفائقة التفاصيل HDTV

تقوم مجلة تيلى ستلايت دائما بعمل تقارير عن هواة استقبال الأقمار الصناعية و كل هؤلاء الهواة يستقبلون القنوات الفضائية كهواية مفضلة لهم ، و الآن توجد فئة جديدة من هؤلاء الهواة : استقبال القنوات الفائقة التفاصيل HDTV ! و هم مهتمون فقط باستقبال هذا النوع من القنوات و التي تبث بالنظام الرقمي الجديد DVB-S2 ، و لقد قابلنا أحد هؤلاء الهواة المتخصصين فى استقبال القنوات الفائقة التفاصيل و الغريب أننا قابلناه فى بكين - حيث أن استقبال الأقمار الصناعية للأفراد غير مسموح به فى الصين باستثناء فى مناطق الأراضى المسطحة و التي تركز على استقبال القنوات الفائقة التفاصيل و هذا أمر غير شائع .

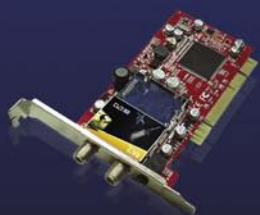
■ لقد اشترى منذ يومين فقط طبق بقطر 2.4 متر و ينوى Applesat أن يقوم بتركيبه خلال أيام ، و هذا طبق بقطر متر مثبت لاستقبال القمر ASIATAT .



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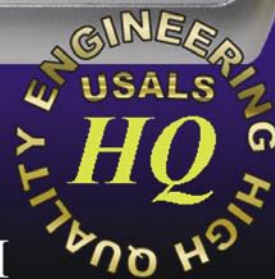
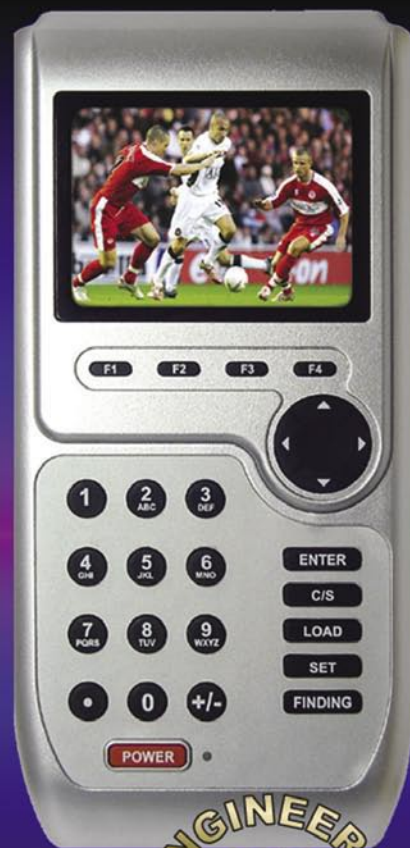
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■ و هذا طبق آخر ل Applesat بقطر 60سم مع عدد ثلاثة وحدات خفض شوشرة لاستقبال القمر TELSTAR 18 عند درجة شرق و القمر AGILA عند درجة شرق و القمر APSTAR 6 عند درجة شرق .

و هذا الهاوي قد أطلق على نفسه اسم مستعار " Applesat " و قد أوضح لنا السبب " عند سن 15 سنة بدأت عندي هواية استقبال الأقمار الصناعية و كانت الصين في هذه الفترة معزولة و من خلال استقبال الأقمار الصناعية اصبح متاح لدى مشاهدة البرامج من العالم الجديد ، و اعتقدت أن الكرة الأرضية عبارة عن تفاعلة و أن الأقمار الصناعية تطير حولها " .

إن والدية لم تعجبهم هذه الهواية و لكن Applesat لم يقلق بهذا الشأن كثيرا و بدأ الاستقبال بطبق بقطر 1.5 متر لاستقبال القمر ASIAT 1 ، و كان هذا في عام 1992 و بعد ذلك بثلاث سنوات قام بإضافة طبق بقطر 2.1 لاستقبال القمر APSTAR 1 .

■ لقد قام Applesat بتخينة الأطباق جيدا في المبنى الجديد و هو مخفي بحيث لا يمكن رؤية الأطباق من الأرض و الأطباق موجودة في الشرفة بشقته بالطابق التاسع .



■ إن بوق التغذية هذا مصمم للاستخدام مع الأطباق غير مضبوطة البؤرة حيث أن الأطباق المضبوطة البؤرة تفقد الكثير من الإشارات ، هذا ما أفاده Applesat .

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Polish	Polski	www.TELE-satellite.com/TELE-satellite-0907/pol/dxer.pdf
Portuguese	Português	www.TELE-satellite.com/TELE-satellite-0907/por/dxer.pdf
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Russian	Русский	www.TELE-satellite.com/TELE-satellite-0907/rus/dxer.pdf
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0907/tur/dxer.pdf

Available online starting from 29 May 2009



في نافذة حجرة المعيشة التي تواجه الجنوب قام Applesat بتركيب طبق غير مضبوط البؤرة و توجيهه عن طريق جهاز القياس Trimax meter .

و في يناير عام 2009 انتقل إلى شقته الخاصة في مبنى جديد شمال بكين و لقد اختار هذه الشقة لسبب معين فهي في الطابق التاسع و هي تحت سطح المبنى مباشرة و بهذا يمكنه تركيب الأطباق بدون أن يراها أحد " يمكنك فقط تركيب طبق في مناطق الأراضي المفتوحة لاستقبال القمر CHINASTAR الذي به باقة ABS-S " هذا ما شرحه لنا Applesat " و لكن الاستقبال الخاص في المدن غير مسموح به ."

و هناك استثناء في المدن فيمكن للأجانب استقبال الأقمار الصناعية ، و لكن Applesat لم يقبل هذا الأمر ، و لهذا لم يرد أن يلتفت الانتباه إليه ، " أنا احب القنوات الفائقة التفاصيل HDTV " و لهذا أنا أقوم بهذه المخاطرة ، و يحلم أن يكون له يوما ما قطعة ارض بجوار سور الصين العظيم بحيث يمكن نصب أطباق كثيرة " و لكن القانون الحالي لا يسمح لسكان المدن امتلاك أراضى خارج المدينة ."

و حتى مجيء هذا اليوم يقوم بتبادل المعلومات من أشخاص مهتمين باستقبال القنوات الفائقة التفاصيل مثله و المنتدى المفضل لديه على الإنترنت هو www.hdtvstar.cn و لقد حصل لتوه على تردد جديد من موقع www.cnsat.net .



و لكن كيف حصل شخص مثل Applesat على معدات استقبال الأقمار الصناعية في بكين ؟ يمكنك أن تجد محلات لبيع أجهزة الاستقبال في المدن الأخرى بينما لا تجد أي منها في بكين " لقد اشترى العديد من أجهزة الاستقبال من خلال مواقع مزادات الإنترنت " .

إن Applesat يعرف جيدا كيف يحصل على معدات الاستقبال و تجد أن لديه خمسة أجهزة ريسيفر بالإضافة إلى جهاز تليفزيون بشاشة مسطحة 32 بوصة لاستقبال القنوات فائقة التفاصيل " أنني ارغب في تحويل هوايتي إلى عمل " هذا ما أضافه Applesat ، " و اعتقد أن هذا ما سوف يحدث " إن الطاقة التي يبذلها Applesat في هوايته تجعل هذا أمر أكيد .

يقف Applesat أمام رف يوجد به عدد خمسة أجهزة ريسيفر ، واحد منها لاستقبال الإرسال الرقمي الأرضي الفائق التفاصيل بإشارات DMB-TH ، و ريسيفر لاستقبال الإرسال الرقمي الفضائي الجديد DVB-S2 و عدد اثنين ريسيفر لاستقبال الإرسال الرقمي العادي DVB-S و ريسيفر لاستقبال القنوات المجانية ، " القنوات المفضلة لدى هي قناة Luxe TV على القمر ASIAT 2 و قنوات Fashion TV ، Voom ، National Geographic ، History ، AXN ، Channel و ASN من القمر MEASAT " هذا ما أفاده Applesat " لقد بدأت قناة رقمية جديدة فائقة التفاصيل و هي قناة Skylife من القمر KOREASAT 3 عند تردد 11.900L و 11.938L .

استقبال القمر ECHOSTAR الأمريكي في جزيرة Tenerife الأوروبية

في العدد 12-01/2009 من مجلة تيلي ستلايت قدمنا كيف قام السيد Diego Fernando Sanchez Rosende بمحاولة استقبال إشارات الأقمار خارج نطاق التغطية الإشعاعي لها ، ولقد استطاع أن يلتقط العديد من الأقمار الصناعية التي تغطي أمريكا الشمالية بطبق غير مضبوط البؤرة بقطر 1.8 متر فقط .

Diego يظهر بوضوح أن إشارات هذه الأقمار يمكن استقبالها خارج نطاق التغطية الإشعاعي ، وهذا الأمر يستحق دائما المحاولة مع توافر الطبق المناسب مع عدم وجود عائق أمام الطبق ، إن السيد Diego يعيش في منطقة جبلية والتي تحجب الإشارات من الأقمار التي تأتي إشارات من الشمال و مع ذلك و نتيجة لعدم وجود أي نوع من أنواع تلوث الهواء فإنه يستطيع استقبال الأقمار التي تغطي قارة أمريكا فريد من نوعه في أوروبا .

إن مجلة تيلي ستلايت دائما ما تسعد عندما تعلم بأمر استطاعة استقبال أقمار صناعية يستحيل استقبالها من موقع ما ، فإذا كنت من أحد هؤلاء الذين يستطيعون استقبال أقمار صناعية والتي لا يجب استقبالها في موقعك فارجوا مراسلة مجلة تيلي ستلايت على موقع www.TELE-satellite.com/letter .

أظهرت القائمة أن هذه القنوات يمكن استقبالها :

- القمر - DIRECTV 1R ECHOSTAR 6 عند 72,5 درجة غرب
- (باقة DIRECTV USA - DISH NETWORK USA)
- R, 20000, 5/6, 12.224
- L, 20000, 5/6, 12.239
- R, 20000, 5/6, 12.282
- L, 20000, 5/6, 12.340
- القمر - ECHOSTAR 4
- عند 77,0 درجة غرب
- (باقة DISH NETWORK (MEXICO
- L, 20000, 5/6, 12.239

وبجانب هذين القمرين استطاع السيد Diego أيضا استقبال إشارات من القمر ECHOSTAR عند جرة غرب و القمر AMAZONAS عند 61 درجة غرب ، ولكن بإشارات ضعيفة جدا لا يمكن من خلالها عرض صورة جيدة على الشاشة .

و مرة أخرى فان مثال السيد

و على أي حال لا يوجد سبب للسعادة مع استقبال هذه الأقمار حيث أن معظم القنوات بهذه الأقمار مشفرة و لكن بعد ذلك استطاع السيد Diego اكتشاف القناة CBS-21 على القمر ECHOSTAR 6A عند 72.5 درجة غرب ، على التردد الرأسي 12.224 جيجاهيرتز و وجد أن هذه القناة تبث بدون تشفير " و أستطيع استقبال هذه القناة التي تبث بالنظام الرقمي الفائق التفاصيل DVB-S2 بكل جودة : و في نفس الوقت لقد أضيفت قنوات أخرى الى قناة CBS-21 و بهذا أصبح السيد Diego يستطيع مشاهدة القنوات

التليفزيونية الأمريكية في أوروبا من جزيرة Tenerife .

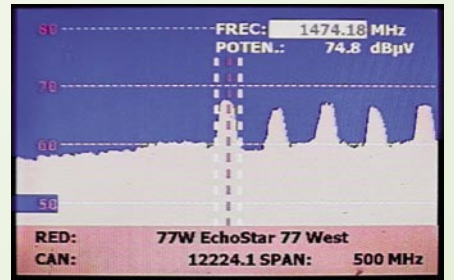
و بالنظر إلى تحليل لطيف



استقبال القنوات الأمريكية الغير مشفرة في أوروبا : قناة CBS-21 تبث بتشفير من القمر ECHOSTAR 6A الذي يمكن استقباله في جزيرة Tenerife بأسيانيا بواسطة طبق السيد Diego بقطر 1.8 متر .



جهاز قياس الإشارات للسيد Diego يظهر لنا الجدول الشبكي للنطاق الذي يستقبله من القمر ECHOSTAR 6A .



تحليل الطيف للقمر ECHOSTAR 6A من جزيرة Tenerife .

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Available online starting from 29 May 2009



رغم زاوية التصعيد المنخفضة لاستقبال الأقمار الصناعية الأمريكية فان السيد Diego من حيث موقعة المرتفع على الجبال يمكنه استقبال هذه الأقمار المنخفضة الزاوية .

السيد Diego يقوم بتوجيه الطبق بقطر 1.8 متر الذي يستخدمه لاستقبال الأقمار الصناعية الأمريكية .

إن نطاق التغطية الإشعاعي بعيد عن الاستقبال في أوروبا - أو هكذا نظريا ، و لكن في العالم الحقيقي فإن الاستقبال جيد في حافة أوروبا الغربية .

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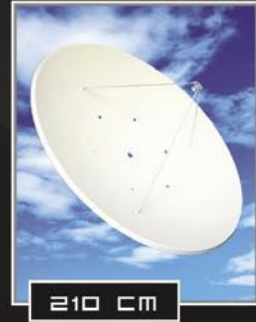
250 CM



240 CM



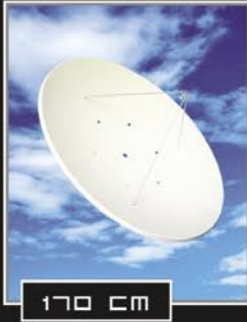
220 CM



210 CM



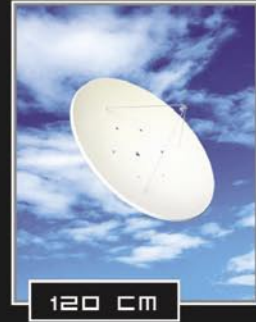
190 CM



170 CM



140 CM



120 CM



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

(Photo: ESA)



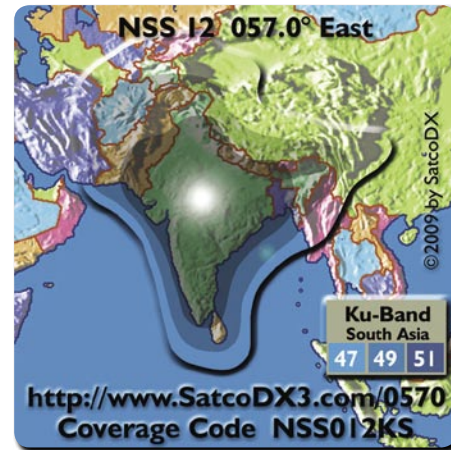
Edited by
Aleksandar Medic

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

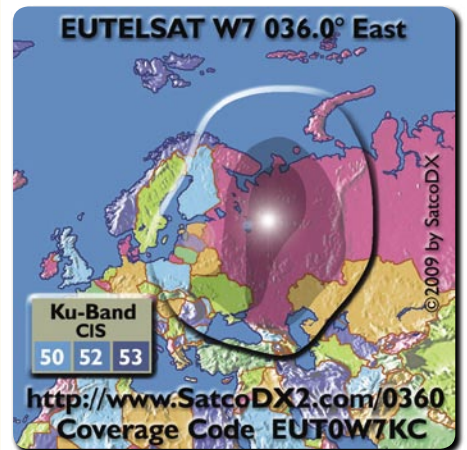
Amazonas 2 satellite, ordered by HISPASAT in 2007 and constructed by EADS-ASTRIUM, has 54 Ku- and 10 C-band transponders and an operational life of 15 years. After the launch from the Kourou space center in French Guiana by Ariane 5 rocket, it will be co-positioned with Amazonas 1 satellite on 299° East (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.



EUTELSAT W7

July-September 2009

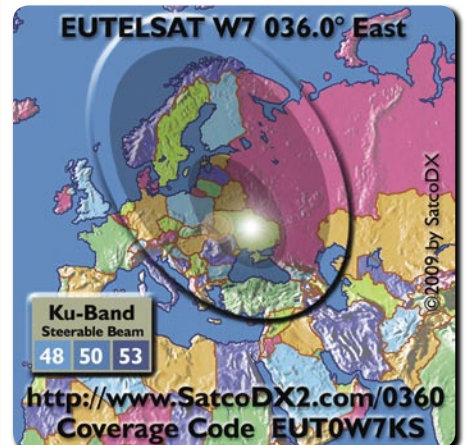
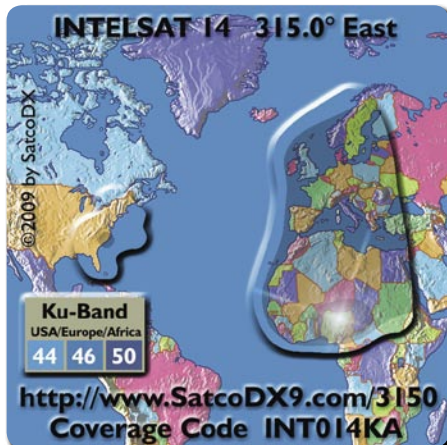
EUTELSAT W7 will occupy EUTELSAT's 36° East location, replacing EUTELSAT SESAT. This 70 Ku-band transponder satellite, built by Alcatel Alenia Space, will be launched by Zenit sea launch vehicle. 24 transponders will be assigned to DTH services on the fixed Russian/Ukrainian beam, 12 transponders will 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.



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.





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Edited by
Branislav Pekic

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 Mediaroom 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

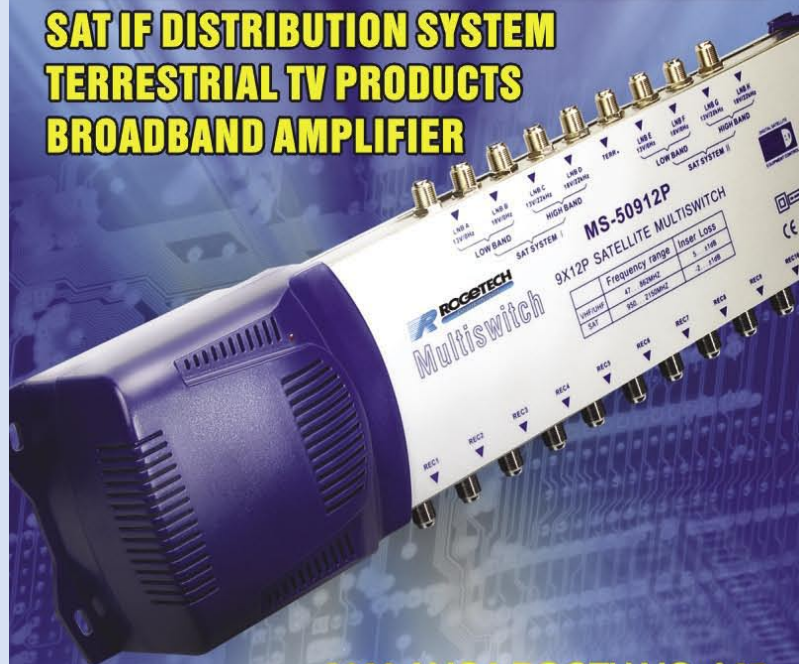
The National Rural Telecommunications Cooperative (NRTC) and the National Telecommunications Cooperative Association (NTCA) have announced that telecom operators now have the opportunity to deliver more than 80 HD channels. Recently, NRTC has more than



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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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Polarity: Vertical (V)
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Symbol Rate: 22.425
FEC: 3/4
Audio PID 1794 E



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**
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- **6 - 11 October 2009: CeBIT Eurasia**
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- **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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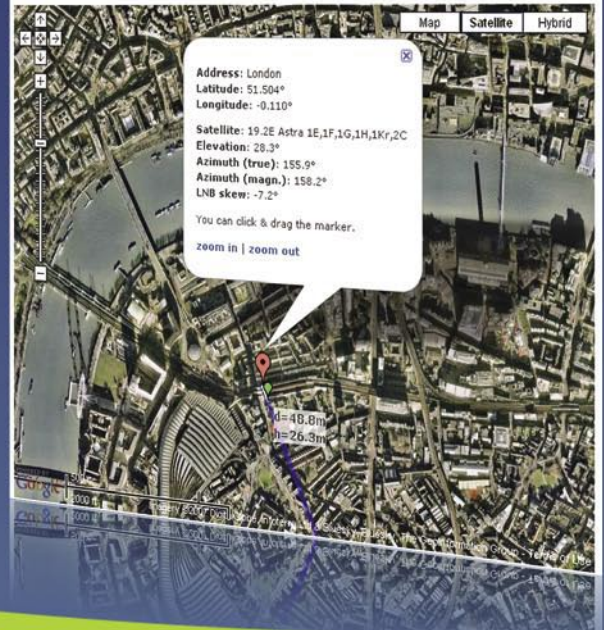
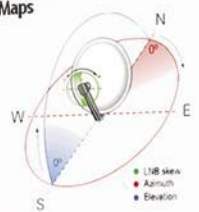
International location: e.g. streetname, postcode, geocode:

London

Popular Satellites:

28.2E Astra 2A-8-D
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



References



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Edited by Alexander Wiese

20 Years Ago

Travel into the Past
TELE-satellite Magazine
Issue 09/1988



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 Programme der weltweiten Sender und Signale der neuen Welt von Himmels Höhe in den Wohnzimmer. Wenn Amerika (S.E.S.) abgestrahlt werden. Und künftig auch viele Programme der Satelliten, die noch starten werden. Bei aller Vielseitigkeit ist er...
...schließen. Mit dem Grundig STR 201 Plus haben...
...Ideen muß man 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.

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- HEALD • TEL-POLAR
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- ZETA SATELLIT

Alle für das Fachhandelt

Anfrage und Vertikung: SKYLINE SYSTEMS (SR) S. 4700

Satelliten-Technik

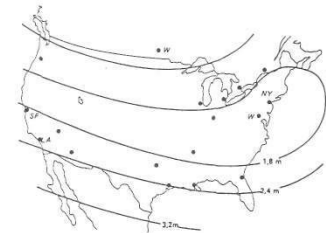
Transpondermarkt

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-ogramme in deutscher Sprache.

PAS 1 bietet für den Zuschauerraum der USA sowohl Transponder m 4 wie im 12 GHz Band an. Während für die Kanäle im 4 GHz Band Empfangspiegel 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

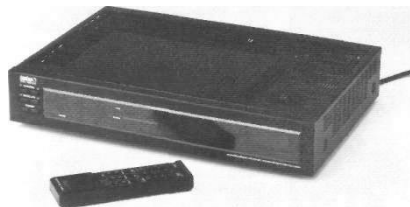
Satelliten Markt

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-Schlauf 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 Ausstattungscomfort 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 anschließend dem HEMT-Downconverter in einer neuen Kombination von Chaparral

DER BEGINN EINES NEUEN ZEITALTERS: ECHOSTAR SR-5500

Die revolutionäre Technologie des EchoStar SR-5500 läßt Sie ein neues Zeitalter im europäischen Satelliten-Fernsehen erleben. Über die neuartige, bedienfreundliche Fernbedienung haben Sie Zugriff zu den verschiedensten Extras, wie:

- 100 Video-Programmplätze
- On-Screen-Graphics
- Kindersicherung
- Timer für Videorecorder
- 50 Audio-Programmplätze
- Audio-Stecklaut
- Stereo
- Automatische Intensitätsabstimmung auf stärkstes Signal

• MAC-kompatibel

• Programmierbare Video-Bandbreite

• 47 vorprogrammierte Programme und vieles mehr ...

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

Willkommen im neuen Zeitalter!

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im 11 GHz Bereich

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EUT I-F1 16° Ost
EUT I-F4 13° Ost
EUT I-F5 10° Ost
EUT I-F2 7° Ost
INT V-F2 1° West
INT V-F6 18.5° West
INT VA-F11 27.5° West
PAS F1 45° West

TV		Radio	
Nr.	Programm	Nr.	Programm
3 SAT	West 3		
Tele 5	BR 3		
Eins Plus	Eureka TV		
Radio Media	Deutschlandfunk		
Sky News	Sky Channel		
Sky Movies	TV 3		
Eurosport	Lifestyle		
Start 1989	Screensport		

TV		Radio	
Nr.	Programm	Nr.	Programm
RAI UNO	RAI DUE		
TVE 1	TRT 1 (1989)		
TRT 2 (1989)			
Teleclub	3 SAT		
FilmNet *	SAT 1		
Super Channel	TV 5		
World Net	RTL plus		
Sky Channel			
Starsat	BBC World-service		
BBC For. Service	Radio Tien		
Cable One	Sky Radio		
Sky Radio	Radio Lux.		

TV		Radio	
Nr.	Programm	Nr.	Programm
Eurovision*	World Net		
Eurosport (1989)			
Norpas	Infotilm		
Canale 5	Telespazio		
Telespazio	Telespazio		
Radio Nova	BBC World-service		
BBC For. Service			

TV		Radio	
Nr.	Programm	Nr.	Programm
MTV	Children's Channel		
Premiere *	Kindernet		
Lifestyle	Screen Sport		
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Radio Nova	BBC World-service		
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Hinweis:
 Notieren Sie in der freien Spalte "Nr." die individuelle Kanalnummer Ihres Satelliten-
 Receivers. Notieren Sie in dem Feld "Position-Nr." oberhalb jeder Spalte die in-
 dividuelle Position-Nummer Ihrer Drehlageneinstellung.

* = in Sonder-
 norm (codiert)
 ausgestrahlte
 Programme

So finden Sie Ihre

Programme aus dem All

NEU

DECODER
 FÜR
 SATELLITENEMPFANGSANLAGEN
 FILMNET / PREMIERE / BBC / CHANNEL 10

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 Automatische Umschaltung
 mit oder ohne UHF-Modulator

2.) PREMIERE oder BBC oder CHANNEL 10
 Automatische Umschaltung
 ohne UHF-Modulator

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 einschrittiges 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 Fernsehsatelliten-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 unentbehrlich, 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.

Wir verkaufen keine Satellitenanlagen.

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ASTRA
 DER FERNSEH-SATELLIT
 MIT 16 PROGRAMMEN

DER MARKT:
 15 Millionen deutsche Haushalte empfangen keine privaten Fernsehprogramme. Ein Großteil kann auch zukünftig nicht per Kabel oder terrestrisch empfangt werden. Der ASTRA-Direkt-empfang von 16 Kanälen schafft diese Versorgungslücke.

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

Jetzt sind Sie am Drücker!

Want More? Free Time Travel 20 Years Back:

Read Full Magazine TELE-satellite 09/1988 Here: (Sorry, available in German only)

<http://magazine.TELE-satellite.com/vintage/TELE-satellite-8809-deu.pdf>



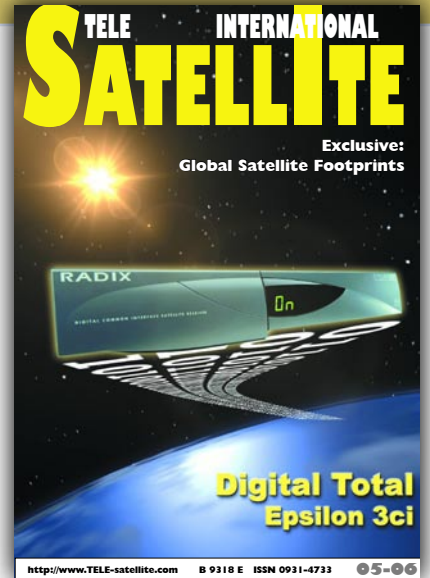
Edited by
Alexander Wiese

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

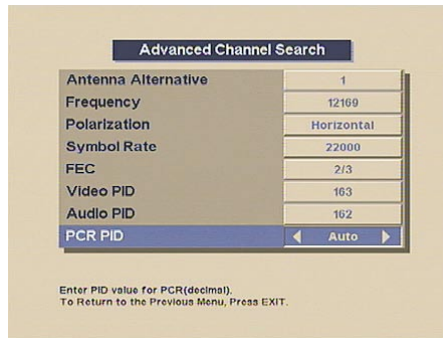
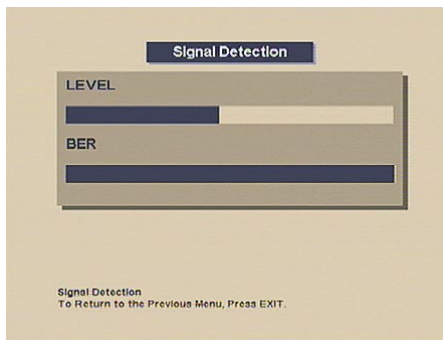
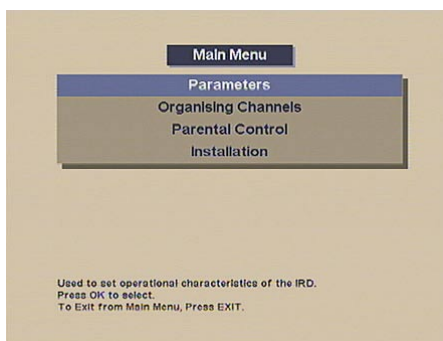




doesn't develop much heat and can easily be placed under an existing heap of equipment. The metal housing also protects it from any interference from the outside. On the front, we found the emergency operation buttons, which not only allow changing channels but also switching between radio to TV. At 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.

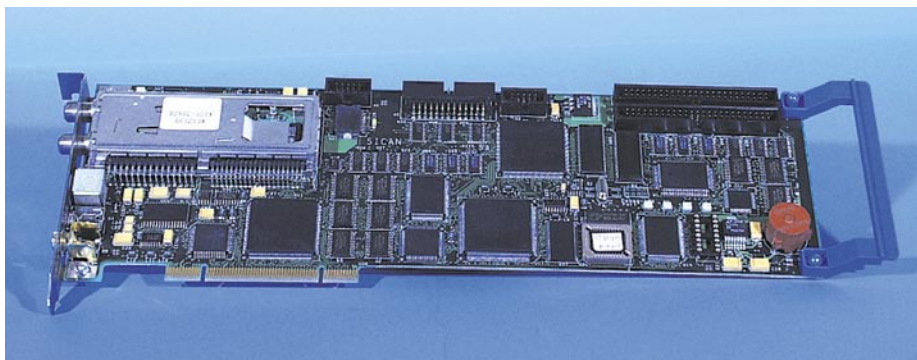


RO.VE.R. SDA-5 Digisky

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.

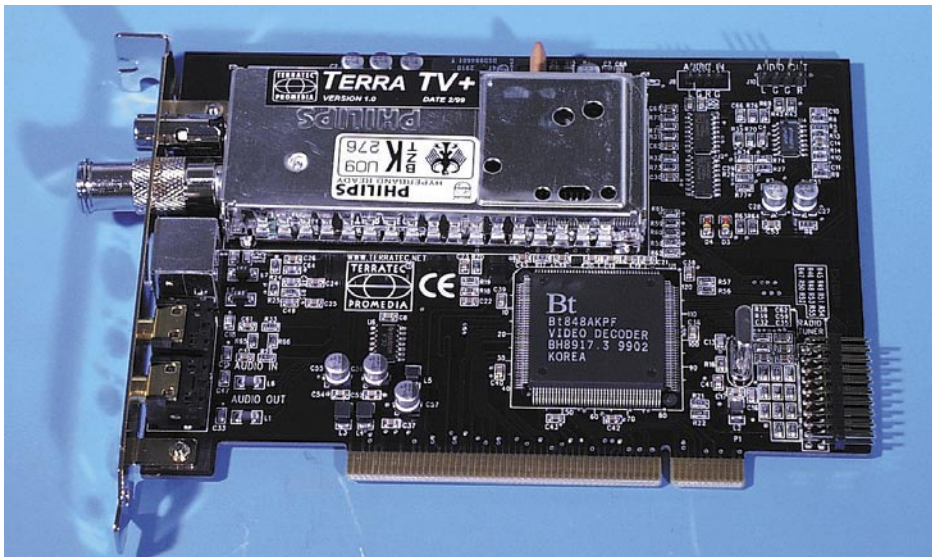
DVBBeam IP Card

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.

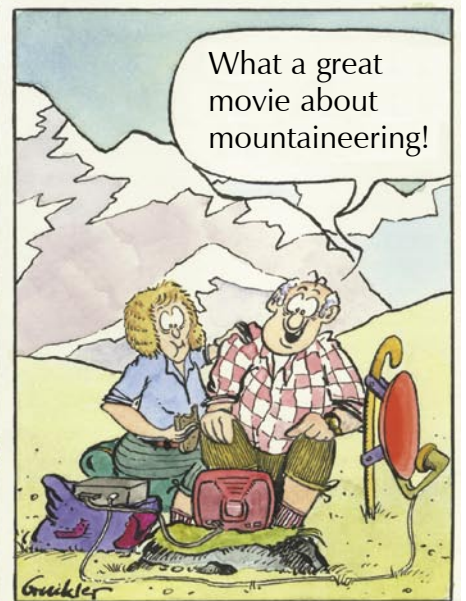
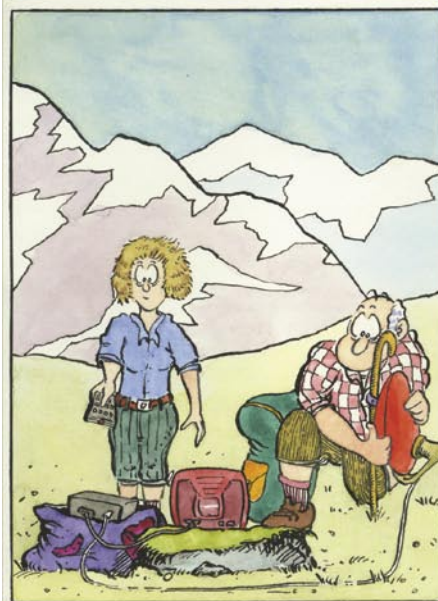
At TSI, we recently received a pre-production sample. Although we expected a lot of trouble installing this test board, we were really surprised by the ease of installation. As long as you use Windows NT4, Windows 95 or Windows 98 there is no real problem. For Windows NT4 you need to do the installation 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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