

TELE

**DTT
IPTV
3DTV**

ستلايت



تقرير عن شركة

BYA

سليمان اية الله يدخل سوق
التصدير باطباق اقمار صناعية



تقرير عن شركة

AMIKO

جوزيف زمان يوسع عمله باجهزة
استقبال جديدة متطورة



تقرير عن شركة

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قسم مقياس اشارة اقمار صناعية جديد



تقرير اختبار

TEVII

ماثياس ليو يضع موالفين في بطاقة اقمار
صناعية خاصة بالحاسوب

تيلي ستلايت

30

عام من تقارير العمل
الصحفي حول
التلفزيون الرقمي

تقرير اختبار

SatCatcher

محلل

اشارة

بذاكرة

1 جيجا

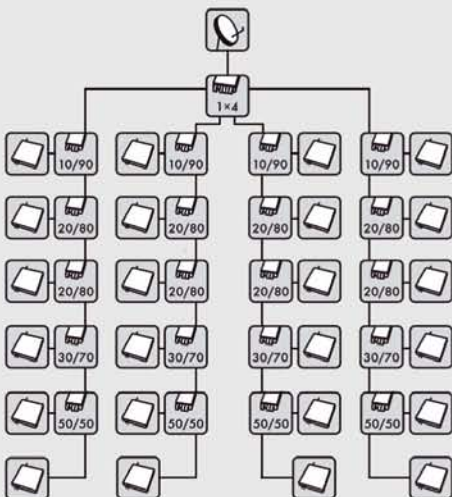
بايت



INPAX X-9100 Linux PVR

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- Miniaturised
- Blind-mating
- Robust

CeBIT 2011 in Hannover
1 - 5 March, Broadband World, hall 13

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Global Digital TV Magazine
Published worldwide since 1981 in
all major languages

Alexander Wiese
Publisher

alex@TELE-satellite.com
HQ in Munich, Germany

القراء الاعزاء

لكن بالنسبة لي فلا يبدو ان هذا سيكون المستقبل مع الاخذ بعين الاعتبار العدد المتزايد باستمرار للناس الذين يشاهدون التلفزيون عبر الحاسوب الكفى وحاسوب اي باد . اعتقد انه في مرحلة ما سيكون تلفزيون الانترنت يمكن استقباله عبر الترددات الناقالة ولا اعني بهذا التلفزيون المتنقل مثل بث الفيديو الرقمي اليدوي DVB-H . بدلا من البث التلفزيوني عبر الانترنت او تلفزيون الانترنت عبر روابط الانترنت الناقالة . ان تكنولوجيا بث قنوات التلفزيون تتوسع بشكل مستمر لتشمل مسارات مختلفة . اصبح من الواضح ان محلل اشارة تلفزيون عالمي يغطي كل نطاق ممكن سيكون مجال سوق جديد . بالنسبة لأولئك الذين يبيعون ويقومون بتركيب انظمة الاستقبال للزبائن . فان محلل الاشارة هو الاداة المستخدمة للتعرف على ما يمكن وما لا يمكن استقباله في موقع الزبون .

لم يتم استنفاد سوق محلل الاشارة باي وسيلة . انه يتوسع بشكل الي عندما يتم استخدام نطاق ترددي لبث قنوات تلفزيون . اذا اردت ان تبقى متابعيا لما يحدث . فسوف تحتاج لحل اشارة متوافق .

نقدم مرة اخرى في هذا العدد من تبلي ستلايت محللات اشارة الاقمار الصناعية . كل جهاز مصمم بشكل رائع و ملء بالميزات التي لم تكن لنفكر انها ممكنة منذ بضع سنوات مضت . مع ذلك فهي مدمجة و اسعارها معقولة . لماذا ينطلق سوق محلل الاشارة فجأة كذلك ؟ من الواضح ان هناك طلبا على هذه المحلات و الا لن تكون معظمها موجودة .

سبب اخر انه توجد امكانية اليوم لتصنيع محللات اشارة باعداد اصغر للسوق المتخصص مثل : فنى تركيب الاقمار الصناعية . الا تعرفون أن هذا السوق المتخصص انتشر كالغيوم في سوق استثنائية كبيرة حيث ان كل مشاهد قنوات اقمار صناعية يمتلك محلل الاشارة الخاص به . اذا كنت قادرا على تقديم منتج جذاب بسعر جذاب لقطاع متخصص رفاهه سيتحول في النهاية الى سوق .

هل توجد تخصصات اضافية في سوق محلل الاشارة أم انه وصل الى ابعده حد؟ أنا شخصياً أفضل استخدام محلل اشارة يمكنه اضافة لعرض ترددات قنوات الاقمار الصناعية ، النواقل الرقمية الارضية و العلامات المخصصة للكوابل و ان يكون قادرا على ان يعرض لي ترددات الشبكات المحلية اللاسلكية . الاخر موجود فعلا وقد نشرت تبلي ستلايت تقريراً عنه . لكن ماذا عن ترددات الهاتف المحمول ؟ متى سيكون محلل الاشارة قادرا على قياس النطاق الترددي الذي يمكن استقباله . ما هي قوة المجال و ما هو معدل ارتفاع نقل البيانات ؟

الكثير من الناس لا يستخدمون الهواتف السلكية و يفضلون بدلا من ذلك استخدام هواتفهم الناقالة . حتى الان . كان يعني البث التلفزيوني عبر الانترنت ان يتم استخدامه مع اتصال انترنت ثابت DSL . و

Alexander Wiese

الكسندر وايز

المحرر المسئول في تبلي ستلايت

TELE
satellite

Address TELE-satellite Magazine, PO Box 1234, 85766 Munich-Ufg, GERMANY/EUROPE

Editor-in-Chief Alexander Wiese, alex@TELE-satellite.com

Published by TELE-satellite Medien GmbH, Aschheimer Weg 19, 85774 Unterfoehring, GERMANY/EUROPE **Design** Németi Barna Attila

Advertising www.TELE-satellite.com/ads/

Printer Blackprint Nyomdaipari Kft, Tenkefürdő utca 3, 1044 Budapest, HUNGARY/EUROPE
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TELE-satellite was established in 1981 and today is the oldest, largest and most-read digital tv trade magazine in the world. TELE-satellite is seen by more than 350,000 digital tv professionals around the world and is available both in printed form and online.

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Redaktion TELE-satellite, Postfach 1234, D-85766 München-Ufg **Chefredakteur** Alexander Wiese (verantwortlich) Anschrift wie Verlag, **Verlag** TELE-satellite Medien GmbH, Aschheimer Weg 19, D-85774 Unterfoehring, Inhaber: Alexander Wiese, Verleger, Unterfoehring

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Dear Readers, once again we are introducing satellite signal analyzers in this issue of TELE-satellite. Each device is wonderfully designed and full of features that we wouldn't have thought possible just a few years ago. Nevertheless, they are compact and affordable. Why is the signal analyzer market taking off like this all of a sudden? Obviously there's a demand for these analyzers otherwise so many of them wouldn't be available.

Another reason is that today it's possible to manufacture signal analyzers in smaller numbers for a niche market like satellite installers. And wouldn't you know, this niche market mushroom clouds into an exceptionally large market since today almost every satellite TV viewer has their own signal analyzer. If you can provide an attractive product at an at-

tractive price to a niche segment, it will eventually transform into a market.

Are there additional niches in the signal analyzer market or has it gone as far as it can? I personally would like to use a signal analyzer that in addition to showing me all the satellite channel frequencies, terrestrial digital transponders and cable specific parameters would also show me the WLAN frequencies. The latter is already available and TELE-satellite has already reported on this. But what about mobile telephone frequencies? When will a signal analyzer be able to measure the receivable frequency range, what the field strength is and how high the data transfer rate could be?

More and more people don't even use a hard-wired telephone anymore; they prefer instead to use their mobile telephones. Up until now, IPTV was meant to be used with fixed DSL connections, but for me it doesn't look like this will be the future considering the consistently increasing number of people who are watching TV via tablet and i-pad computers. I believe that at some point Internet TV will be receivable via mobile frequen-



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but for me it doesn't look like this will be the future considering the consistently increasing number of people who are watching TV via tablet and i-pad computers. I believe that at some point Internet TV will be receivable via mobile frequencies and I don't mean mobile TV like DVB-H, rather IPTV or WebTV via mobile Internet links. That the technology to transmit TV channels is continuously expanding to include different paths, it's becoming clear that a universal TV signal analyzer that truly covers every possible range would be a new market segment. For those who sell and install reception systems for customers, the signal analyzer is the tool used to identify what can and cannot be received at a customer site.

The signal analyzer market is not by any means exhausted, rather, it expands automatically whenever a new frequency range is used to transmit TV channels. If you want to keep up to speed on what's going on, you'll need a corresponding signal analyzer.

Sincerely,

Alexander Wiese
TELE-satellite Editor-in-Chief

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TELE-satellite
Editor-in-Chief

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- 1 x CI, CA optional with Conax Embedded
- PVR, Timeshift,



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- PVR, Timeshift, CA optional with Conax Embedded

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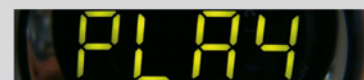
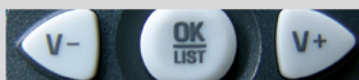


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- 1 x Common interface slot
- HDTV & SDTV
- Video-resolution 1080i, 720p, 576p
- optical signal to the align the antenna
- HDMI out with HDCP
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- Display subtitles (* .srt) media files
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HDTV DVB-C Receiver

- HDTV PVR ready to external storage devices via USB port
- Output to 576i, 576 p, 720 p, 1080i
- Playback of DivX, DivX HD, MKV and VOB video files *
- Display subtitles (* .srt) media files
- Playback of MP3 files and display JPG files
- Timeshiftpuffer with a length of up to 5 hours
- Fast forward and rewind with up to 64 x speed
- 2 CI + shafts modules for pay TV
- Firmware upgrade over USB4

STRONG
DIGITAL TV

SRT 7805 HD+ HD +



HDTV Receiver, USB PVR Ready

- HDTV (1080i) • USB port
- HD + compatible (HD+ smart card for 12 months including

SRT 7300 CI+



HDTV Receiver, USB PVR Ready

- HDTV (1080i)
- CI + compatible slot for most CA - modules
- USB port

SRT 7000



HDTV Receiver, USB PVR Ready

- HDTV (1080i) • HDMI (V/A -Output)
- USB 2.0 port

SRT 6205 - PVR Ready



USB recording capability

- UHF Modulator to connect the receiver to TV
- 2 Common Interface slots
- USB port

New measurements on stock

Premium

Satlook
ICE



- DVB satellite-receiver 920-2150MHz
- Spectrum-analyzer with expanded spectrum
- DVB-S (Free to Air) and Analog TV-picture
- Digital readout of BER and SNR.
- Super bright 5" 16:9 TFT-LCD color display and much more

Mid Range

Satlook
LITE



- Very handy and easy to use Satellite-TVmeter.
- "EasyFind"-satellite identification
- Very sensitive
- Digital BER and S/N-ratio and much more

Cost Effective

Digitas
PRO ACCU



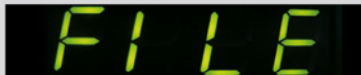
- Measure signallevel from two LNB's at the same time.
- Measured information are displayed on the LCD.
- DiSEqC, 22 kHz, 13/18v and mA readout.
- Generate DiSEqC, 22 kHz and 13/18v to control LNB/switch.
- and much more

Consumer

AirBeeper



- Very small and handy meter for installation of DVB-T antennas.
- Extremely easy to use, no buttons or knobs.
- Pitch-tone indication in the earphone and much more



HDTV & Ethernet connection

smart
VX 10

DVB-S HDTV Receiver

- HbbTV
- PVR-ready
- WIFI compatible
- LAN / Ethernet connection
- FULL HD 1080p
- NAGRA embedded
- USB interface for external storage devices
- e-SATA interface
- Unicable ready

HDTV Receiver

VANTAGE

VT-1 Full HD PVR



DVB-S Twin FULL HDTV Receiver

- Two DVB-S2 tuner
- 4:3, 16:9, HDTV 720p, HDTV 1080p
- Video MPEG ISO 2/4, MPEG-4 HD / H.264
- 2x USB
- HDMI
- 2 CI and 2 Smart card Reader
- Time shift supported

Big Dishes

PRODELIN
A TriPoint Global Company



2.4M - C & KU-BAND

- Precision compression molded centered reflector
- Series 1252 - Az/El Mount
- Series 1253 - Polar mount
- Low transportation cost with three panel reflector
- Individual panels inter-changeable and field replaceable
- Galvanized steel mounts Reader



3.7M - C & KU-BAND

- C-Band Intelsat F1, H4 and GType approved: approval #IA031A00 (without LNA) and #IA031A00 (approved LNA included)
- Intelsat approved LNA kit eliminates costly field testing
- C-Band INSAT & wide-band available
- Precision compression molded four segment offset reflector
- Installation time reduced with improved mount design
- Fully galvanized steel Az/El mount
- Reflector/Feed electrical Anti-Icing available
- Two axis tracking configuration available

Dishes

CHERTINI TRIAX PRODELIN



- 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

Big dishes directly from our warehouse!

- NEW - 160 cm - 300 cm
- 180 cm - 370 cm
- 240 cm

Optical fibre LNB

INVACOM

Innovation in Communications

Fibre LNB / Fibre Flange LNB



with optical fiber connection

AVAILABLE ACCESSORIES:

Optical 2, 4 or 8 way MDU can imitate a twin, quad or quattro LNB, and you can have up to 32 MDUs from one Fibre Optic LNB

1x2, 1x4 or 1x8 optical fibre coupler

Optical cable from 1,0 meter up to 200 meters

The Fibre Optic LNB can feed the whole Ku-band to up to 32 end-points.

Full LNB range INVACOM available as:

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

Parts

Multifeeder 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



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

Flat-Dishes

SELSAT

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

SELSAT Flat-Dishes available as:

H30D / H30D2 / H30D4



STRONG Slimsat SA Series

- Satellite antenna with integrated Single- Twin- or Quad LNB
- Simple: Installation within a few minutes

Slimsat Flat-Dishes available as:

SA 61 / SA 62 / SA 64

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



- Red Extend - 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

Motors

Aktuatoren/ Actuators

- Mini Actuators - 6", 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 2500 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

Multiswitches/ DiSEqC-Switches

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



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

Full range

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

Unicable solution

Inverto
digital-labs

IDLP-USS200-CU010-8PP

This cascable Unicable switch is the smallest form factor Unicable switch enabling the reception of 2 satellites and installations with up to 8 satellite receivers over a single cable. In addition to its eight User Bands Unicable output, the multiswitch also features two legacy outputs, a terrestrial antenna input and is powered by an external power supply



inpax 9100

بنظام لينوكس بمسجل فيديو شخصي



INPAX®

UNITED TECHNOLOGIES OF INPAX

- من المستحيل الا تحب مثل هذا الجهاز .
- وقت تمهيد قليل و ذلك بفضل نسخة لينوكس الاصغر .
- يعمل بثبات- لم نكن قادرين على جعله ينهار .
- يتضمن مقياس اشارة اقمار صناعية كبير على الشاشة .
- بحث اعمى عن القنوات متطور .



المتعة التركية

جهاز استقبال بمسجل فيديو شخصي فائق الجودة بنظام لينوكس يقدم وعدا بعدد من المزايا المثيرة للاهتمام ، جميعها في صندوق صغير . هل يمكن ان يكون هذا ممكنا ؟

الموجود . خيارات الفيديو محصورة بمنفذ فائق الجودة ، سكاريت او فيديو مركب ، و يوجد مخارج صوت ستيريو اضافة الى S/PDIF . للاتصال بالعالم الخارجي يوجد منفذ ايثرنت شبكة محلية و منفذ متوازي rs232 .

بداية باردة من جهاز الاستقبال

بي و سمحت لي بمشاهدة جميع قنوات الاشتراك ماعدا تلك المرتبطة بجهاز استقبال معين . كان هذا عبارة عن مفاجأة . منفذ البطاقة هو خيار النفاذ المشروط الوحيد : الا يوجد مكان لاضافة كام .

في الخلف ، يوجد منفذ الهوائي و حلقة توصيل المخرج من الموالب

رقم القناة الحالية ، او الساعة في وضع الاستعداد .

يوجد على الجانب الايمن رفرف يخفي منفذ الناقل التسلسلي العام و منفذ بطاقة ذكية واحدة و التي يبدو انها قادرة على قراءة مجموعة متنوعة من البطاقات حتى انها قبلت بطاقة اسكاي ديجيتل الخاصة

منحدرا من اسطنبول ، تركيا ، فان جهاز x9100 من انباكس هو مفاجأة . الصندوق الاسود الصغير بابعاد 26سم عرض ، 19سم عمق و 4سم ارتفاع و يأتي بحقيبة سوداء انيقة لامعة مع ظهور للحد الأدنى . يوجد فقط 3 ازرار على الواجهة الامامية : الاستعداد ، قناة للاعلى و قناة للاسفل . شاشة عرض تعرض



من تلك التي لها صوت مرتفع جدا حيث سينزعج جيرانكم . بالطبع ، اذا كان من الممكن تنظيم مستويات الصوت فقط لتجنب هذا الوضع ، فلن تكون حاجة لمثل هذه الوظيفة . لكن هذا من غير المزعج ان يحدث قريبا او بعيدا ، لذا في هذه الاثناء : شكرا لانباكس للتفكير في هذا .

تقتصر وظائف تحرير القناة على الحذف ، النقل و اعادة التسمية . القدرة المهمة احيانا على تحرير البيانات مفقودة على سبيل المثال . هناك ثمان قوائم مفضلة مسبقا . اسماء هذه القوائم غريبة جدا ، مع فقدان الاحرف الاولى . لكن من السهل تصحيح هذا عن طريق اضافة مفضلة جديدة و اعطاؤها اي اسم تريده . الزر الاصفر في قائمة المفضلة سوف ينشئ قائمة مفضلة جديدة .

لا توجد مساحة داخل الصندوق الصغير لقرص صلب ، تم تعيين التسجيلات على جهاز ناقل تسلسلي

طريق الحرف الاول من اسم القناة ، ولكنها لا تقوم بترتيب القائمة باكثر من هذا و بذلك فان قناة تلفزيون ادريجان سوف تظهر قبل تلفزيون اثنا اذا كان هذا هو ترتيب القائمة الافتراضية - وجدت هذا مركبا قليلا . يوجد على جهاز التحكم عن بعد ازرار مخصصة للصفحة اعلى و صفحة اسفل و هذا يسرع التنقل في هذه القائمة و في قوائم اخرى .

جهاز التحكم نفسه هو قياسي ، شعور عام ليس مدعوما فيما يحدث على فترات عندما يتم الضغط على زر فيقوم بتكرار العملية السابقة بدلا من القيام بالعملية التي تتوقعها . مصادفة غريبة اخرى هي ترتيب الازرار الملونة و هو يختلف عن الترتيب الاعتيادي احمر- اخضر- اصفر- ازرق لم اكن اعرف حتى ان هذا الترتيب قد طبع في ذهني باستخدام و اختبار العديد من اجهزة الاستقبال على مر السنين و لكنني اكتشفت ذلك بالضغط على الزر الازرق معتقدا انني كنت اضغط على الزر الاخضر عدة مرات .

تم الاحتفاظ بجهاز التحكم بسيط ، لا توجد ازرار لاختيار المعيار الصحيح او دقة الشاشة و لكن يمكن العثور على هذه الخيارات داخل قوائم اعداد جهاز الاستقبال . يمكن هنا العثور على الخيارات الاكثر اهمية ، بما في ذلك الاختيار بين RGB او CVBS من منفذ سكايت . للوصول الى الخيار الاخير ، اختر HDMI الوضع 576i و اضغط على ازرار الصوت صعودا و خفضنا للتحويل بين RGB و CVBS .

توجد ميزة واحدة خاصة في القوائم حيث يجب تهئية انباكس عليها . يوجد خيار لحفظ حجم الصوت لكل قناة بشكل مستقل . هذا هو الحل المثالي لذلك الوضع الشائع جدا للتغيير من قناة هادئة جدا الى واحدة

البحث عن الاقمار الصناعية السريع مقارنة ببعض اجهزة الاستقبال الاخرى التي تعمل بنظام لينكس . بالنسبة لمشاهدي كنال ديجيتال ، تلفزيون فلان ديرين او يوبي سي دايركت على قمر استرا 1، فتتوفر خاصية بحث سريع . بالنسبة للبقيّة منا فان البحث القياسي يمر عبر الطيف الترددي للقمر الصناعي في وقت مناسب . استغرق بحث قمر استرا 2 اربع دقائق للبحث في عدد 90 تردد مخزن .

اضافة مرحب بها جدا هي خاصية البحث الاعمى بذلك يمكن العثور على اي تردد ليس موجودا في قائمة النواقل . يعمل هذا بشكل مختلف قليلا عن غيره من الاجهزة التي رأيناها في الماضي . اولاً : يتم البحث في كامل الطيف الترددي ، حيث تتم اضافة اي ترددات يتم العثور عليها لقائمة الترددات المحفوظة . بعد ذلك يبدأ البحث العادي ، حيث يتم البحث عن الترددات الجديدة الى جانب تلك المخزنة مسبقا يضيف هذا بعض الوقت لعملية البحث فقد استغرق 2.5 دقيقة للعثور على و اضافة 8 ترددات اضافية للقائمة و بعد ذلك استغرق من 4:15 للبحث عنهم جميعا . ان البحث الاعمى ليس مثاليا لصيد التغذيةيات ، حيث لا توجد قدرة على بحث جزء من النطاق الترددي .

يتم الوصول الى القنوات من قائمة قنوات مماثلة لتلك الموجودة في معظم اجهزة الاستقبال الاخرى . تستخدم الازرار يسار و يمين لتصفية القائمة بين القنوات المفتوحة فقط ، فائقة الجودة و القنوات المشفرة و بالطبع يوجد خيار لعرض كل شيء . يمكن استخدام الزر الاحمر لتصفية القائمة اكثر عن طريق تحديد الاقمار الصناعية المعروضة في القائمة . تتوفر ايضا خاصية A-Z و التي تصفي القائمة عن

لا تستغرق وقتا طويلا كما يمكن ان يكون متوقعا من جهاز استقبال بنظام لينكس ، استغرق نحو 45 ثانية من لحظة الضغط على المفتاح حتى ظهور صورة على الشاشة . هذه واحدة من المفاجآت التي تأتي من جهاز X-9100 باستخدام نسخة اصغر من نظام لينكس المدمج من الاصدارات المعقدة التي رأيناها في الماضي .

اولئك الذين لديهم رهبة من احتمال اعدادا جهاز استقبال لينكس لا داعي للقلق اكثر من اللازم . الخيارات و نظام القائمة ليست معقدة اكثر من التي في جهاز استقبال قياسي . يوجد دعم يوسالز لتمكين اعداد سهل لمحرك دايسك ، مع وجود ميزة اضافية وهي وجود برمجة لبعض المدن الكبرى في ذاكرة جهاز الاستقبال .

مجموعة واسعة من اعدادات وحدة خفض الضجيج مدمجة ، و حيث ان جهاز الاستقبال من اصول تركية ، فان اعدادات خاصة لديجي ترك مشمولة . اذا لم تكن الاعدادات تناسب نظامك فان ترددات وحدة خفض الضجيج يمكن تحديدها يدويا . يوجد دعم للدايسك من الاصدار 1.0 وحتى 1.3 لضمان دعم اي محرك او محول .

يوجد 71 قمر صناعي من جميع انحاء الكوكب مبرمجة مسبقا في جهاز الاستقبال و يمكن ان يتم تحرير او حذف هذه البرمجة اذا دعت الحاجة . يمكن اضافة اقمار صناعية جديدة اذا دعت الحاجة و ذلك عن طريق تحديد الموقع المداري ، ببساطة اذا كنت تقوم باعداد طبق الخاص ستكون مسرورا برؤية مقياس الاشارة الكبير على الشاشة لمساعدتك في العثور على اشارة جيدة .



INPAX®

UNITED TECHNOLOGIES OF INPAX



عام يتم توصيله بالمنفذ الامامي. يمكن بدء التسجيلات مباشرة من زر التسجيل على جهاز التحكم او من خلال المؤقت الذي يمكن ضبطه يدويا من دليل البرنامج الالكتروني . ان دليل البرنامج الالكتروني في 9100x قابل للاستخدام و يمكن تحويله بين يوم واحد او سبعة ايام . انه غريب بعض الشيء ان عرض الشبكة يملأ فقط ربع الشاشة لذا فهي ليست الطريقة الاسهل للرؤية بسرعة لما هو مبرمج لاکثر من ساعة او ساعتين للمستقبل . ان مؤقت الاحداث هو من النوع القياسي مع بعض خيارات التكرار محتويا على الاثنین الى الجمعة و نهايات الاسبوع فقط . يتم ضبط جهاز الاستقبال اما الى التسجيل او للتحويل الى القناة المحددة في الوقت المطلوب و يوجد ايضا خيار لاطفاء الجهاز بعد انتهاء التسجيل .



- 1 - البحث الاعمى .
- 2 - قائمة القنوات .
- 3 - دليل البرنامج الالكتروني .
- 4 - تحرير المفضلات .
- 5 - متصفح ملفات .
- 6 - خادم بروتوكول نقل الملفات .
- 7 - عدة صور داخل صورة .
- 8 - تشغيل برنامج مسجل .

990 CR HD PVR Spark LX High Definition



ENIGMA 2



CYNEXTRA GMBH
Stuttgarter Str. 36
D-73635 Rudersberg
Phone: +49 (0) 7183 / 30 777-0
Fax: +49 (0) 7183 / 30 777-20
info@cynextra.com

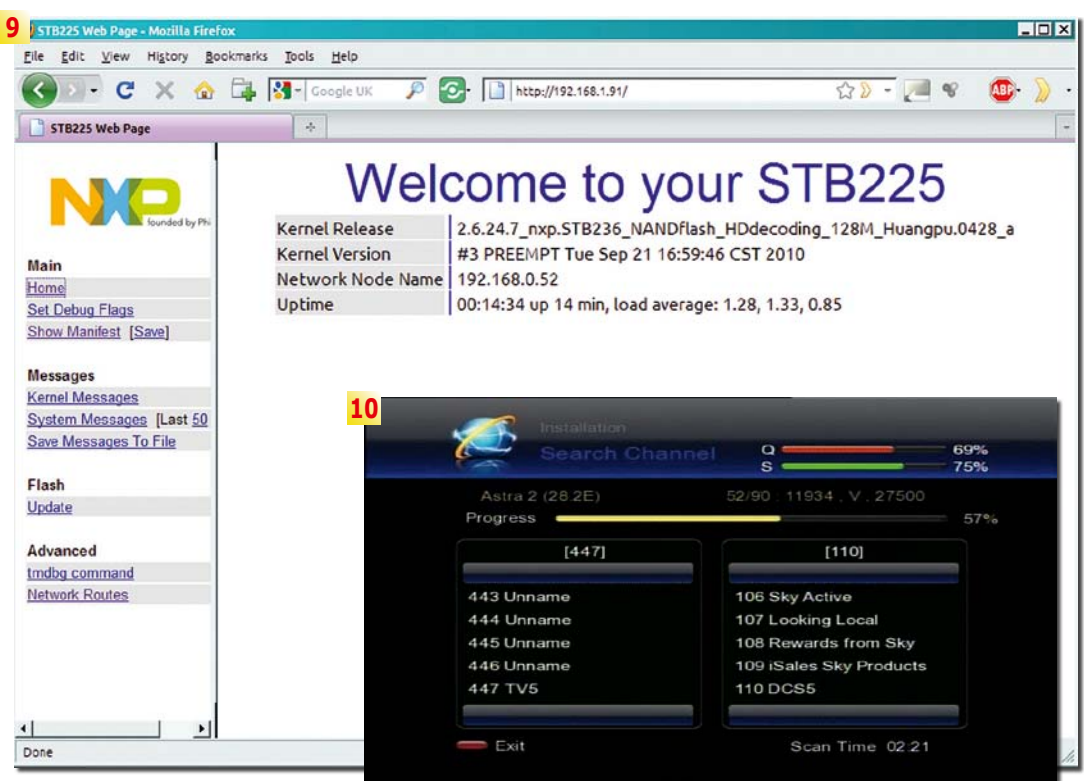
WWW.GOLDEN-MEDIA.NET

للاعجاب ، و جميع الملفات العينة التي جربتها عملت دون اي مشاكل . تحتوي القائمة على AVI-AFS و التي تغطي معظم القواعد . من الجميل ان نرى ان قوائم القنوات المحفوظة بنسق SATCODX . SDX يمكن استيرادها من قائمة الملف .

يوجد ايضا مشغل ايثرنت . عندما يعمل ، فهو حقا جيد و حافظ على اتصال من موقعي في انجلترا الى قناة استرالية طوال الليل بدون اي مشاكل . حصلت على عدة رسائل " الملقم مشغول " ، لكن عندما ادخل اتلقى نوعية صوت جيدة مع بعض المحطات تعرض اسم الفنان و عنوان الاغنية . التنقل خلال القوائم الضخمة هو الم حقيقي و كأن كل صفحة من القائمة يتم استردادها من الانترنت عند طلبها .

بعد مرور فترة زمنية في القائمة الأبجدية اكتفيت في حين لازلت على الحرف A و لكن توجد على الاقل قائمة مفضلة هنا و ستكون هذه لا تقدر بثمن اذا اردت العودة الى مزيج مقصور على فئة معينة المحطات التي وجدتها ، من بولكا هيفن (شبكة بولكا العالمية) و حتى اماتهورريبيتر (W6NUT247) . اتساءل عما اذا كان راديو هامز في كاليفورنيا يتصور انه يجري استقباله على جهاز استقبال اقمار صناعية في جميع انحاء العالم عبر الانترنت؟ و هل سأصل الى نهاية القائمة لمعرفة اذا ما كانت محطة نيويورك 2100 متوفرة ؟

سحب نفسي بعيدا عن ايقاع البولكا المنوم الى القائمة التالية يجلب لنا مشغل يوتيوب . يعمل هذا ايضا بشكل جيد جدا ، وحيث ان نوعية الفيديو جيدة بدرجة كافية ، و تتم مشاهدتها بشكل كامل على التلفاز . عدد من الاعدادات المسبقة تسمح بالوصول الى الفيديو الاكثر شعبية في تلك اللحظة اضافة الى الكوميديا ، الموسيقى ، الاخبار ، الرياضة و هكذا . يتوفر ايضا بحث و الذي يفتح . اليوتيوب باسره على تلفازك . انه اضافة جميلة و يعمل الفيديو بسلاسة اكثر من ما هو على

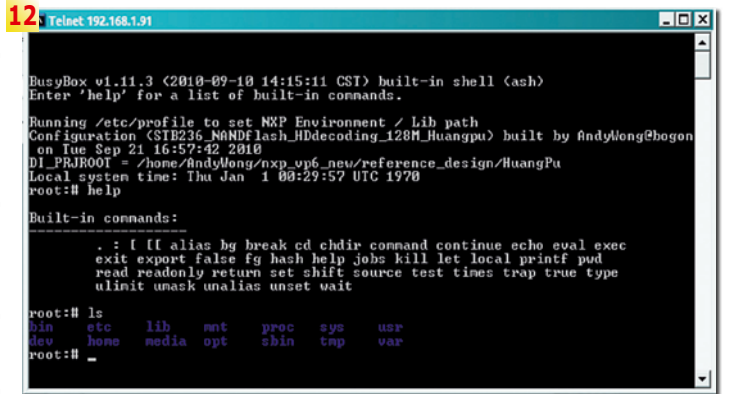
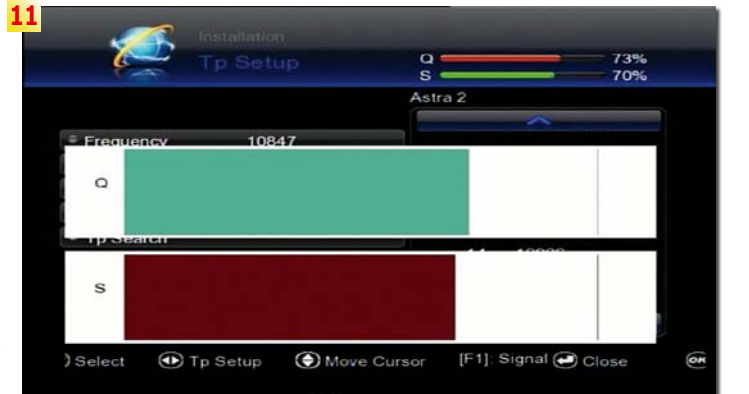


- 9 - واجهة ويب لينكس المدمجة .
- 10 - البحث في القمر الصناعي .
- 11 - مقياس اشارة .
- 12 - تلنت في جهاز الاستقبال .

على جهاز ناقل تسلسلي عام فانه من السهل الوصول اليها على الحاسوب . عمل جيد يعود لانباكس هنا - تعطيك قائمة الاعدادات خيار نسق التسجيل بين ملفات mpg او ts ، و هي اضافة مفيدة لأولئك الذين يرغبون في تحرير او ارشفة تسجيلاتهم على DVD او تحويلها الى انساقي اخرى .

على الرغم من سهولة الاتصال بالعالم الخارجي عبر الايثرنت فليس من السهل الوصول الى التسجيلات عن طريق بروتوكول نقل الملفات FTP ، لذل فان فصل جهاز ناقل التسلسلي العام و السير به الى الحاسوب هو السبيل الوحيد للوصول اليها . يتوفر بروتوكول نقل الملفات و لكن هذا يعمل باتجاه واحد فقط و هو نسخ الوسائط الى الناقل التسلسلي العام للتشغيل . من الممكن ايضا توصيل سامبا (SMB) بنفس طريقة الاتجاه الواحد .

المجموعة المتنوعة للتنسيقات التي يمكن تشغيلها هي مثيرة



فكان الجهاز يعرض الساعة الرملية المشابهة لويبندوز و صورة مجمدة من اخر قناة تم استقبالها .على الرغم من جهودي للتشويش على الجهاز الصغير و ارباكه و لكنني لم اكن قادرا على ذلك و حتى عند التسجيل .

وحيث ان التسجيلات يتم حفظها

التسجيل و العرض يعملان بشكل جيد بدون اي مشاكل تلاحظ ، حتى في تسجيل قنوات فائقة الجودة الى عصا ناقل تسلسلي عام . لقد اختلطت تجاربي مع اجهزة استقبال لينكس في الماضي ، اتذكر جيدا بعض مؤقتات التسجيلات التي لم تبدأ ابدا بسبب تحطم جهاز الاستقبال بساعات قبل الموعد ،

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USALS
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ان جهاز X9100 جهاز استقبال بنظام لينكس مختلف عن معظم الاجهزة التي رايناها في الماضي . بالنسبة للبعض ، يمكن ان يكون هذا مخيبا للامال حيث يبدو كأنه جهاز استقبال تقليدي في استخدامه عن تلك الاجهزة التي تشغل توزيعات لينكس مثل انيجا 2 . و مع ذلك فان هذا يجعل منه اكثر جاذبية لأولئك الذين يرغبون في مشاهدة التلفاز بدون مشاحنات او تهديد من الا تعمل الاشياء بسلاسة . ان توصيل الانترنت هو سهل كتوصيل كابل اترنت اذا كانت تتوفر خاصية DHCP في الراوتر عندك، و الاضافة هي اليوتيوب و راديو الانترنت و هي مفيدة حقا . ا يمكن جعل واجهة راديو الانترنت افضل قليلا يمكن ان يكون كاملا ، طريقة سهلة للوصول للاف المحطات بجودة .

على الرغم من ذلك فان الاكثر ارضا هي موثوقية جهاز الاستقبال . ان خوفي من فقدان التسجيلات و الذي جاء من تجاربي السابقة مع اجهزة استقبال لينكس قد تبدد تماما . بينما اختبار جهاز الاستقبال لهذا التقرير لم يخذلني ابدا ، و هذا ما يرغبه و يحتاجه معظم الناس : جهاز استقبال يفعل كل ما يقول انه سيفعله و ان لا يتعطل في اللحظات الاكثراهمية . يوجد بعض النقد كما ذكرت سابقا و التي يمكن معالجة معظمها في تحديثات البرنامج التشغيلي في المستقبل . من المستحيل الا تعجب بهذا الصندوق الاسود الصغير و ان تكون معجبا بالمجموعة الكاملة من الوظائف التي يحتوي عليها . عموما فان هذا جهاز صغير حسن المظهر مختصر يؤدي وظيفته على اكمل وجه .

الجهاز المشغول يعطيك وصول لبعض اوامر لينكس الاساسية ، و التي هي بحد ذاتها محدودة الاستخدام او لا يتم استخدامها من قبل المستخدم اليومي و لكن ان نكون فضوليين لنعرف ما هو موجود على الذاكرة الداخلية . و بالمثل التوصيل باستخدام متصفح انترنت يعطيك واجهة لنظام تشغيل لينكس المدمج مع العديد من معلومات التصحيح .

ليس هناك في الواقع اي شيء للاستخدام ، و لكن جماهير لينكس قد تجد المعلومات مثيرة للاهتمام . ليس من الواضح اذا كان ممكنا او لا اضافة الى البرنامج في الداخل لتمكين المزيد من الوظائف .

ادخال الرقم 208.67.222.222 و احفظ بالضغط على الزر الاحمر . ثم بعد ذلك يظهر DNS2 ، ادخل نفس بروتوكول الانترنت 208.67.222.222 مرة اخرى و احفظ بالزر الاحمر . الان يحتاج جهاز الاستقبال الى اعادة التشغيل عن طريق اطفاء الطاقة و تشغيلها . الذهاب مرة اخرى الى افلام اضافية و الان قم بالضغط على 9-8-7-6 ككلمة مرور . و انها تعمل .

من الممكن استخدام التلنت للدخول الى جهاز الاستقبال ، و هذا يظهر سطر الاوامر من نظام الجهاز المشغول ، حيث يتم استخدامه من امازون كيندل و اجهزة اخرى .

جهاز الكمبيوتر العجوز الخاص بي .

القائمة الاخيرة الخاصة بضبط تطبيقات الانترنت ليست مذكورة في دليل الاستخدام : مثل " افلام اضافية " . انا متأكد ان معظمنا سيقول " نعم من فضلك " لبعض الافلام الإضافية . و لكن هذه القائمة محمية بكلمة مرور ، و هنا نشرح لكم كيفية الوصول اليها .

قم بادخال اعدادات بروتوكول الانترنت في قائمة الاعداد ، قم بالضغط على الزر الاخضر و الذي يغلق خاصية DHCP و بدلا من ذلك يطلب DNS1 . عليك



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راي احد الخبراء

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البرنامج التشغيلي يعمل بثبات .
مسجل فيديو شخصي يسمح بالتسجيل بنسق TS .
قائمة مثيرا لانماط الملفات التي يمكن تشغيلها .



Andy Middleton
TELE-satellite
Test Center
UK

الترتيب الابجدي يرتب القنوات حسب الحرف الاول فقط .
ترميز الالوان في جهاز التحكم ليس القياسي .

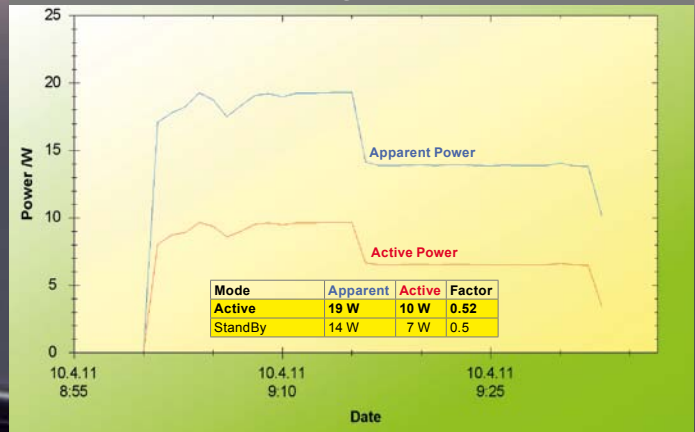
يجب ان تعذرني الان - لقد و نسيت تقريبا انه يمكنني ايجاد حان الوقت لانهاء هذا التقرير بعض الوقت من هذه الانحرافات حتى استطيع مشاهدة المزيد من لمشاهدة بعض القنوات فائقة الجودة الحيوانات المضحكة على يوتيوب و جيدة الطراز على صديقي الجديد الاستماع للمزيد من موسيقى البولكا الصغير .

TECHNICAL

DATA

Distributor	INPA ELEKTRONİK SAN. VE TİC.LTD.ŞTİ. Kemeraltı Str. Şefkat Business No: 1-3 Floor:4 Karaköy, İstanbul, Turkey
Tel.	+90 212 293 63 12 +90 212 293 63 13
Fax	+90 212 293 63 18
Website	http://www.inpax.com
Email	info@inpax.com.tr / inpax@inpax.com.tr
Model	X-9100 Linux HD PVR
Function	HDTV Satellite Receiver with PVR
SCPC compatible	Yes
USALS	Yes
DiSEqC	1.0/1.1/1.2/1.3
Scart connectors	1
Symbol rates	DVB-S QPSK – 2000 to 45000 DVB-S2 QPSK – 2000 to 45000 DVB-S2 8PSK – 2000 to 45000
MPEG modes	MPEG-1, MPEG-2, MPEG-4, H.264, MP@ML
Audio outputs	2 (left & right)
Video outputs	Composite, HDMI
Resolutions	480p, 480i, 576p, 576i, 720p, 1080i at 50Hz, 720p & 1080i at 60Hz, 1080p at 30Hz
UHF output	No
0/12 volt output	No
Digital audio output	S/PDIF
EPG	Yes
C/Ku-band compatible	Yes
Power supply	100-240V AC, 50/60Hz
Common interface	2 None
Card slots	1 universal

ENERGY DIAGRAM



TEST REPORT
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HDTV Linux Receiver |

INPAX

Inpax X-9100 Linux PVR

- impossible not to like this little box
- very fast boot time thanks to a smaller Linux version
- runs very stable - we were not able to crash it
- includes large on-screen satellite meter
- sophisticated blindscan

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Hailing from Istanbul, Turkey, the X-9100 PVR from INPAX is quite a surprise. The little black box measures just 26cm across, 19cm deep and 4cm high and comes in a stylish shiny black case with a minimalist appearance. There are just three buttons on the front panel: Standby, channel up and channel down. An LED display displays the current channel number, or the clock in standby. A flap on the right-hand side conceals a USB port and a single smart card slot which seems to be able to read a variety of cards – it even accepted my Sky Digital card and allowed me to view all my subscription channels except those that are tied to an individual receiver. This

was quite a surprise. The card slot is the only conditional access option: there is nowhere to add a CAM.

At the back, the antenna input and loop-through serve the single tuner. Video options are limited to HDMI, Scart or composite video, whilst there are stereo audio outputs plus S/PDIF. For connection to the outside world there's an Ethernet LAN port and an RS232 port.

A cold start of the receiver doesn't take as long as might be expected from a Linux-based receiver, taking around 45 seconds from flicking the switch for a picture to appear on screen. This is one of the surprises that come from the X-9100 utilising a much smaller,

embedded version of Linux than the more complex versions we've seen in the past.

Those who might be daunted at the prospect of setting up a Linux receiver need not worry too much. The options and menu system are no more complicated than those of a standard receiver. USALS is supported to enable easy setup of a DiSEqC motor, with the added bonus of some major cities already being programmed into the receiver's memory. A wide range of LNB settings are included, and as the receiver is of Turkish origin, special settings for DIGITURK are even included. If none of them suit your system the LNB's frequencies can also be specified manually. DiSEqC



is supported from version 1.0 to 1.3 to ensure that just about any motor or switching setup will be supported.

71 satellites from around the planet are pre-programmed into the receiver and these can be edited and deleted as required. New satellites can be added as required by simply specifying the orbital position. If you are setting your own dish up, you'll be pleased to see the inclusion of a large on-screen signal meter function to help you find a good signal.

Scanning satellites is fast compared to some other Linux-based receivers. For viewers of Canal Digitaal, TV Vlaanderen or UPC Direct on ASTRA 1, a special fast scan function is available. For the rest of us, a standard scan zips across the satellite spectrum in good time. A scan across Astra 2 took four minutes to scan the 90 stored frequencies.

A very welcome addition is a blind scan option, so that any frequencies not already held in the transponder list can be found. This works a little differently than others we've seen in the past. First, the entire frequency spectrum is scanned, adding any newly-found frequencies to the stored transponder list. After this, the regular scan kicks in, scanning the new frequencies alongside those previously stored. This adds some time to the scanning process, 2,5 minutes were taken to find and add an extra eight transponders to the list, then another 4:15 to scan them all. The blind scan isn't ideal for feed-hunting however, as there is no ability to scan a portion of the frequency band.

Channels are accessed from a channel list similar to those on most other receivers.

The left and right buttons are used to filter the list between FTA-only, HD and encrypted channels, plus of course there is the option to display everything. The red button can be used to filter the list further by limiting the satellites shown in the list. An A-Z function is also available, which filters the list by the first letter of the channel name, but doesn't sort it further than this – so Azerbaijan TV would still appear ahead of Aastha TV if this was their order in the default list – this I found just a little confusing. Dedicated page up and down buttons on the remote help to speed navigation of this and other lists around the menus.

The remote itself is a standard, generic feeling model, not helped by the occasional occurrence of the pressed button repeating your previous action rather than the one you were expecting. Another rather strange quirk is that the order of the coloured function buttons is different from the normal red-green-yellow-blue sequence. I didn't even know that this order has been burned into my brain from the use and testing of so many receivers over the years, but I proved that it

is by pressing blue when I thought I was pressing green several times.

The remote is kept simple, and there are no buttons for selecting the correct aspect ratio, or screen resolution, but these options can be found inside the receiver's settings menus. Most important options are found here, with just a few omissions – for example I could not find anywhere to select between RGB or CVBS from the Scart port, even though both options are listed in the receiver manual's specifications list.

There is one special feature in the menus where Inpax must however be congratulated. An option exists to store the sound volume setting for each channel individually. This is the perfect answer to that all-too-common situation of changing channel from an overly quiet one to one of those that has the sound cranked up so loud that your neighbours will be banging on the wall within no time. Of course, if only audio levels could be regulated to avoid this situation, such a function wouldn't be needed. But that is unlikely to happen anytime soon and very likely never, so in the

meantime: thank you Inpax for thinking of this.

The channel editing functions are limited to deletion, moving, and renaming. The sometimes important ability to edit PIDs is missing, for example. There are eight preset favourites lists, whose names don't appear to be editable. Their names are quite strange, with the first few letters missing. At first it looked like this was an oversight in the menu design, with the icons that match the colour buttons obscuring the first part of the name. But no, even when the FAV button is used to give a channel list of just the individual favourites lists, they are the same! So, as they are not editable, get used to choosing between the lists with names such as ies, ws, ildren's, ucation, ltire, and cial (that's supposed to be "Social", if you didn't guess).

There is no room inside the tiny case for a hard drive, recordings have to be made onto a USB device plugged into the front socket. Recordings can be started directly from the remote's record button or from a timer event that can be set manually or from the EPG.

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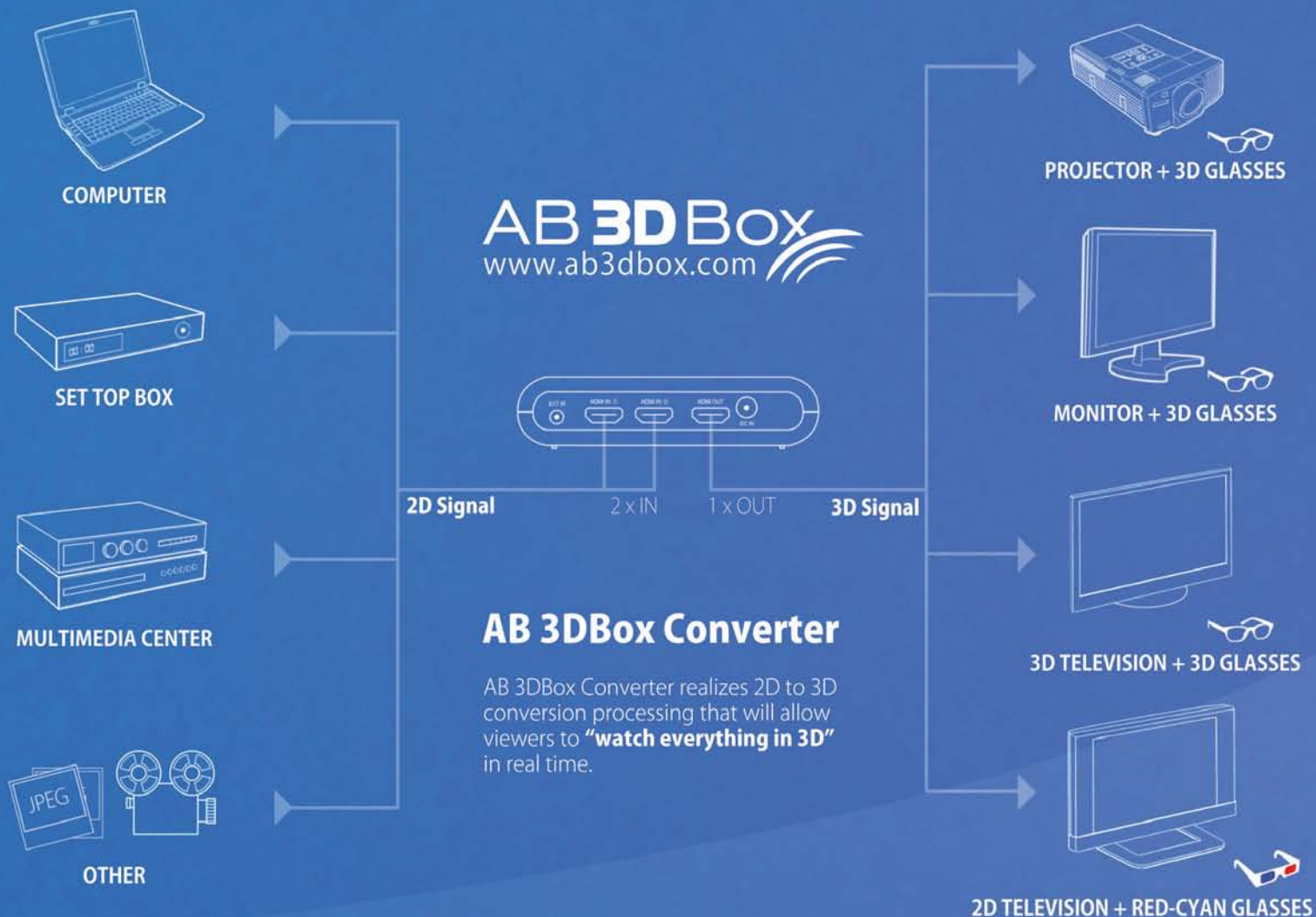
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- support "Side by Side" format for Shutter Glass type 3DTV
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- support the 3D strenght and depth effect Control

CONVERTING MODE FOR CLASSIC 2D TV

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- convert 3D "Side by Side" image to 3D stereoscopic image using Red-Cyan glasses on your TV
- convert 3D "Side by Side" image to 2D normal image on your TV



The image on this page is converted by Anaglyph 3D method which is one of the basic forms of 3D conversion. To see the 3D image you need to use Anaglyph 3D glasses (referred to as Red-Cyan glasses). The quality of the 3D effect is based on the type of glasses being used as well as the print quality.

8dtek مقياس القمر الصناعي DSM الموهوب



- يقيس جميع اشارات التلفاز بنظام بث الفيديو الرقمي عبر الاقمار الصناعية (DVB-S) و الجيل الثاني لبث الفيديو الرقمي عبر الاقمار الصناعية (DVB-S2) و حتى البث التناظري القديم .
- مفاجأة كبيرة في مثل هذا المقياس الصغير : يتوفر فيه دايسك و يمكن ان يحرك طبق .
- مخرج صوت و فيديو يعطي صور ممتازة على كمبيوتر محمول او شاشة عرض .
- يمكن ان يظل المقياس متصلا كل الاوقات بسبب حلقة التوصيل لتوصيل جهاز استقبال اخر .
- محلل طيفي اساسي و قراءات معدل بتات الخطا هي ميزات موجودة في مقياس عالي التقنية .



المقياس الموهوب

شيء أكثر من مجرد باحث بسيط عن القمر الصناعي

مباشرة بعد تشغيل جهاز DSM الموهوب ياخذك الى القائمة الرئيسية , تتكون القائمة من ستة بنود : البحث عن القمر الصناعي المحلي ، دايكس ، القمر الصناعي المحلي ، المحلل الطيفي ، الزاوية و الاعدادات . هناك مستوى واحد للقائمة و بذلك يكون التنقل خلالها بسيط جدا . الضغط على زر قائمة ، موافق OK و ازرار الاسهم تمكنك من القيام بجميع الاعدادات الرئيسية . احيانا ، تستخدم ازرار الوظائف F1-F4 . تعتمد وظيفتهم على بند القائمة المختار و يكون هناك وصف له اسفل الشاشة . ان SPCMAN SAT هي ازرار اختصار تاخذك مباشرة للعرض الطيفي للتردد و عرض القمر الصناعي المحلي .

البحث عن القمر الصناعي هو على الأرجح اهم بند قائمة يتم

فيديو مركب و مخرج صوت احادي . يوجد له وظيفة اضافية . يمكنه ان يعمل كمنفذ تسلسلي RS-232 . شيء غير عادي ، لكن لا تقلق - مرفق معه كابل صوت و فيديو و كابل RS-232 ملانم .

توجد رؤية لمدخل و مخرج اخرى (ايثرنت و منفذ فائق الجودة) تحت الرفرف على الجهة الاخرى لجهاز DSM الموهوب . مع ذلك فهي ليست مثبتة ، في هذا النموذج من المقياس . قريبا نقوم بنشر تقرير يغطي ، اكثر تقدما ، نموذج DSM مجهز بمنفذ ايثرنت . واصلوا قراءة تبلي ستلايت ! على اي حال ، انه مثير للاعجاب هذا العدد من المنافذ الذي تم دمجها في مثل هذا الصندوق الصغير . مفتاح التشغيل و الاطفاء المثبت على الجانب العلوي للجهاز هو اخر ضوابط التحكم بالمقياس .

اضواء الاشارة توضح حالة مقياس الاشارة . موصلي "F" على طرفين مختلفين و هما : مدخل وحدة خفض الضجيج و مخرج حلقة التوصيل لتوصيل جهاز استقبال قمر صناعي . ليس العديد من المقاييس مجهزة بمثل هذا المخرج و احيانا نفتقد مثل هذه الميزة عند اختبار منتجات منافسة .

بفحص ادق يظهر ان كلا الجانبين في المقياس يوجد بهما رفر يغطي التوصيلات الاضافية . يوجد منفذ ناقل تسلسلي عام لعمل نسخة احتياطية لاعدادات المقياس ، و كذلك لتحميل المقياس بتحديثات البرنامج التشغيلي ، يوجد مقبس تيار كهربائي يقبل اما كابل من مزود طاقة او شاحن سيارة - كلاهما مرفق مع المجموعة . و بشكل غير متوقع ، يوجد مخرج صوت و فيديو مع

تصميمه الخارجي المثير ملفت للانتباه . من الذي قال ان المقاييس يجب ان تبدو مملة ؟ اللوحة السفلية ل DSM الموهوب محدبة قليلا مما يجعل الجهاز مثير للاهتمام . شاشتي عرض : شاشة كريستال سائل رسومية ملونة وواحدة كلاسيكية ثنائية الرقم بسبعة اجزاء - و هذا شيء غير عادي . حقيبة وقاية عملية مع حزام فيلكرو حيث يمكنك وضعها حول معصمك . مما يمكنك من حمل المقياس كساعة يد . بالطبع ، فان تكنولوجيا D 8 توضح بجهاز DSM 8DTEK الموهوب انهم رفاق مبتكرون .

ما يمكنك ملاحظته لاول وهلة هو غشاء لوحة مفاتيح بسيطة مكونة من 12 زر . انه يقدم وعد بعمل بسيط ، حيث ستتعلم بعد قراءة هذا التقرير انه تم حقا الوفاء بهذا الوعد



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✓ DVB-T HD MPEG2/4 Receiver

✓ DVB-S2 H. 264 SD Receiver

✓ DVB-S2 HD MPEG2/4 Receiver

✓ DVB-C HD MPEG2/4 Receiver

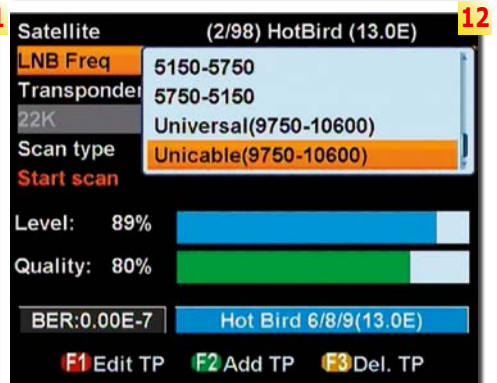
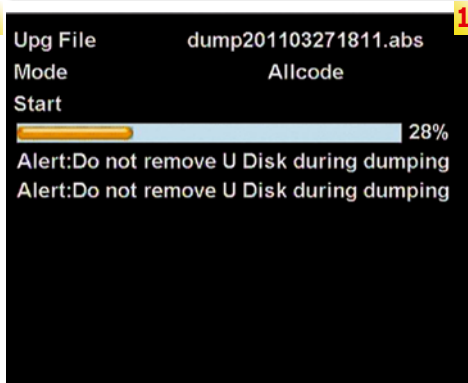
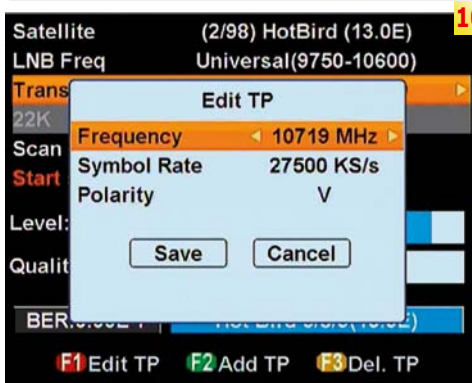
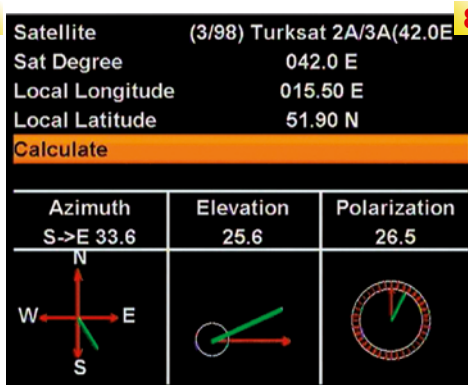
✓ DVB-C SD MPEG2 Receiver





الوصول اليه من القائمة الرئيسية . هنا ، يمكنك ضبط القمر الصناعي ، ترددات وحدة خفض الضجيج ، الناقل، نمط البحث . في نفس الشاشة ، تحصل على نتائج القياس : مستوى الإشارة و نوعية الإشارة ممثلة بالنسبة المئوية ومعدل بت الخطأ . جودة الإشارة بالنسبة المئوية مكررة على اضواء اشارة العرض الثنائي . هذه فكرة عظيمة لان الارقام في شاشة الكريستال صغيرة نسبيا و يصعب قراءتها عن بعد . عند تحريك الصحن يمكنك الرجوع الى شريط الرسوم البيانية الذي يعرض قوة وجودة الإشارة .

في الجز السفلي من الشاشة توجد ثلاث نصائح حول ما يمكن لازرار الوظائف القيام به عندما تكون في بند القائمة هذا . يستخدم الزر الاحمر F1 لتحرير الناقل ، الزر الاخضر F2 لاضافة ناقل جديد و الزر الاصفر F3 لحذف الناقل الحالي . هذه ميزة مفيدة لانه في مناطق مختلفة من العالم نواقل مختلفة لنفس القمر الصناعي يمكن استقبالها لذا من المستحيل صنع قائمة مشتركة للنواقل في اسبانيا و روسيا مثلا . فاذا كان بعض العشرة نواقل المخصصة لكل قمر صناعي في القائمة الرئيسية المعدة من قبل تكنولوجيا 8D لا يمكن استقبالها



- 1 - القائمة الرئيسية
- 2 - العثور على إشارة قمر صناعي
- 3 - اعدادات الداييسك
- 4 - تحرير المحليات المستخدمة في
- 5 - بند قائمة القمر الصناعي المحلي
- 6 - مشهد الاقمار الصناعية
- 7 - المتوفرة في المكان المحدد (حزام كلارك)
- 8 - عرض الطيف الترددي
- 9 - اعدادات النظام
- 10 - نتائج حساب زوايا الهوائي
- 11 - اختيار موقع حسب مشهد حزام كلارك
- 12 - يمكن تحرير ، حذف او اضافة ناقل
- 13 - يمكن نقل الاعدادات والبرنامج التشغيلي لذاكرة ناقل تسلسلي عام
- 14 - جزء صغير من تردد المذبذب المحلي المتوفر .

في منطقتك ، يمكنك ببساطة حذفها و اضافة اخرى . بدلا من ذلك يمكنك تغيير التردد ، معدل الترميز و القطبية .

دعونا الان نبدا المتعة : كيف يعمل DSM الموهوب في الحياة العادية ؟ بدانا بمقياس جودة الإشارة . اتضح ان DSM الموهوب / كما هو الحال في جهاز استقبال اقمار صناعية قياسي ، فان نتائج الجودة لا تتغير بخطوة 1% و لكن بخطوات 6 او 7 % . اذا اخذنا بعين الاعتبار ان النتائج الاقل من 53% هي عمليا تحت عتبة الاستقبال ، فاننا نبقى مع ثمان مستويات : 53% ،



رقم واحد لرؤية كيف ان قراءة النسبة المئوية لاختبارنا كانت مرتبة مع نسبة تعديل الخطا و نتائج هامش الخسائر مقارنة مع مقياس مهني مكلف .

من وجهة نظر عملية لفني تثبيت اقمار صناعية قراءات النسبة المئوية ، على الشكل المطبقة فيه الان في DSM الموهوب ، يمكنك من توجيه طبق بقطر 60-90 سم للاقمار الصناعية الشائعة بطريقة بسيطة و بدقة مقبولة . لا ننصح باستخدام DSM الموهوب ببرنامجه التشغيلي الحالي لاطباق بقطر 120 سم او اكبر . اذا كنت مهتم بديسبل مستقل من اجل تشغيل ناقل ضعيف (مثل ما غالبا يفعل متحمسي الاقمار الصناعية) ، يمكن استخدام هذا

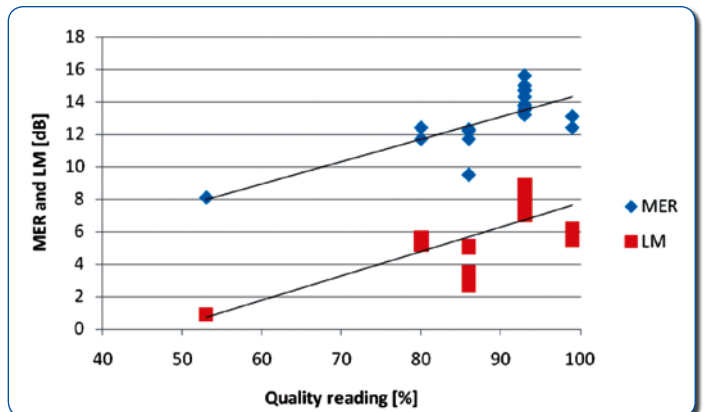
مع ذلك ، كما هو الحال مع جميع المقاييس الاخرى ، فان قراءات معدل بت الخطا غير ثابتة ، كما هو الحال مع البث الرقمي ومحتواة المتغير دائما . و لكن DSM الموهوب متقدم بخطوة / حيث يمكنك قياس معدل تعديل الخطا . هذا هو افضل قياس يمكن لواحد القيام به (نسبة تعديل الخطا) . نسبة تعديل الخطا مستقرة و يمكن قياسها بقيمة 0.1 ديسبل . نموذج عينة الاختبار خاصتنا لم يكن مجهزا بقراءات نسبة تعديل الخطا بعد ، و لكن تكنولوجيا 8D تخطط لتعزيز DSM الموهوب بقياسات نسبة تعديل الخطا في واحد من تحديثات البرنامج التشغيلي القادمة .

انظر الرسم البياني في الشكل

القراءة بنسبة 6-7 % و بعد ذلك تقوم بضبط الطبق / وحدة خفض الضجيج في مكان ما بينهما .

يسمح لك DSM الموهوب بالتحقق من معدل بت الخطا .

60% ، 66% ، 73% ، 80% ، 86% ، 93% و 99% لذا لايجاد الحد الاقصى عند تحريك الطبق او ضبط انحراف وحدة خفض الضجيج على حاملها ، عليك العثور على الحدود حيث تنخفض

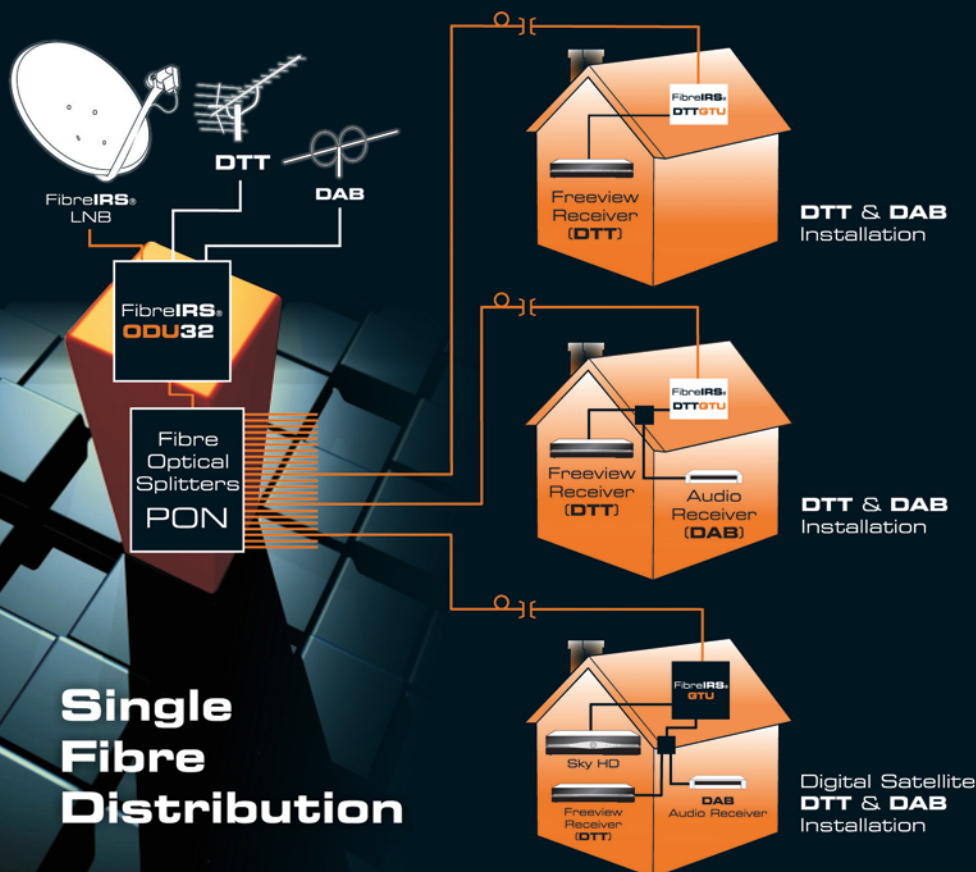


الشكل رقم 1 . خطوط الاتجاه تترجم "قراءات جودة الإشارة ل dsm الموهوب لنسبة تعديل الخطا و نتائج lm . النتائج الحقيقية ل 18 ناقل من اقمار صناعية مختلفة يتم عرضها بمعلومات حمراء و زرقاء .



The New Generation Fibre Integrated Reception System

The only cost effective solution for distributing
**Satellite IF, DTT and DAB over a
Single Fibre Optic Network.**



- Compatible with all digital satellite STBs
- Compatible with all DTT/Freeview™ STBs
- Compatible with all DAB Tuners
- Can be easily expanded to **256** points
- Simple installation* via 'Plug & Play' technology
- Ideal for short or long cable runs.

*Compared with existing Fibre Systems

**Single
Fibre
Distribution**



مطلوبة لاستقبال النواقل مع قطبية خطية . كلما بعد القمر الصناعي عن الجنوب في موقعك ، تحتاج الى تطبيق المزيد من الميل لوحدة خفض الضجيج على حاملها .

اخر قائمة تسمى النظام . هنا يمكنك ضبط معلمات المقياس المختلفة و ايضا البدء بتحديث البرنامج التشغيلي و عمل نسخة احتياطية على عصا ذاكرة ناقل تسلسلي عام . قمنا في الواقع بتحديث البرنامج التشغيلي مرة و كانت سريعة جدا . هذه وسيلة مريحة لتحديث الجهاز .

اذا القيت نظرة على لقطات الشاشة المرفقة مع هذا التقرير ، ربما تسال نفسك كيف تم عمل هذه الصور . في الواقع ، هذه ليست لقطات شاشة الكريستال الخاصة بالمقياس مأخوذة بكاميرا فوتوغرافية و لكنها ملتقطة من مخرج صوت و فيديو الخاصة بالمقياس . هناك كابل توصيل RCA يمكنك توصيله بالكمبيوتر المحمول بالتلفاز و تحصل على شاشة عرض ذات جودة عالية خاصة بالمقياس . ربما لا تكون هذه ميزة عملية جدا في مجال القياسات و لكن اذا اخذت القياسات للداخل ، فان هذا خيار مثير للاهتمام .

ان DSM الموهوب سهل الاستخدام و باحث اقمار صناعية مصمم بذكاء مع مزايا متعددة غير متوقعة تكون عادة موجودة في مقاييس اكثر تكلفة . مع البرنامج التشغيلي الحالي ، فانه جيد لتثبيت الاطباق متوسطة الحجم .

المدن الالمانية . بعد ان تختار اقرب بلدة لموقعك الحالي ، يمكنك الانتقال من قمر صناعي الى اخر باستخدام ازرار الاسهم يسار / يمين و يمكنك رؤية الارتفاع و السميت . اذا دعت الحاجة ، يمكنك تحرير المواقع و تغييرها لتكون اكثر ملائمة لاحتياجاتك الخاصة .

عناصر اخرى من القائمة – المحلل الطيفي – هو شيء لا يتوقعه الشخص في مثل هذا المقياس الصغير مثل DSM الموهوب . مع ذلك ، فان هذا ليس محلل كامل . اول شيء ، فانه بطيء نسبيا . من الواضح ان المعالج ليس قويا بشكل كافي لهذه الوظيفة . وكنتيجة لذلك ، لا يمكنك استخدامها عند ضبط طبقك بخشونة لمراقبة اذا ما كان طبقك قد بدا بالنقاط اشارة . ثانيا ، توجد فترة كاملة فقط . التكبير في تردد معين غير ممكن . لا يمكنك النقر على ناقل محدد في العرض الطيفي لتحديد معلماته . الاستخدام الحقيقي لهذا العرض الطيفي هو للتعرف بشكل سريع على اي قمر صناعي انت حاليا – بالنسبة للمهنيين الذين يقومون بتركيبات في كثير من الاحيان ، عليك التذكر كيف يبدو المحلل الطيفي لكل قمر صناعي .

عنصر القائمة الخاص بالزاوية هو شيء شبيهه بالقمر الصناعي المحلي و لكن تتوفر المزيد من البيانات . بعد اختيارك القمر الصناعي ، عليك ادخال احداثيات ، و اضافة للارتفاع و السميت ، فانه تحصل على زاوية ميل وحدة خفض الضجيج . اخر واحدة

مجمل اختبارنا ، عمل يوسالز بدون اية مشاكل . قمنا بتحريك الطبق عدة مرات خلال اختبارنا مزودين المحرك بالطاقة من هذا المقياس الصغير . هذا ما سيقدره كل فني تثبيت اقمار صناعية .

مع ذلك ، عندما انتهى شحن البطارية تماما ، انطفأ المقياس بدون اي تحذير ، لا يوجد مؤشر لحالة شحن البطارية في قائمة الاعدادات او اي مكان اخر وعدت الشركة المصنعة باضافة هذه الميزة في واحدة من تحديثات البرنامج التشغيلي القادمة .

عناصر قائمة القمر الصناعي المحلي تعرض صورة توضيح لك ما هي الاقمار الصناعية و اماكنها على حزام كلارك كما ترى من موقعك . مقياس الاختبار كان مجهزا لالمانيا و بذاكرته عدد من

المقياس للاستخدام الاولي . من ناحية اخرى ، يمكن لتكنولوجيا 8D ان تكون حقا فخورة بعدد الترددات التي تقدمها في بند القائمة ايجاد القمر الصناعي . ها هي قائمة رائعة من ترددات المذبذب المحلي (LOF) يمكنك اختيارها في DSM الموهوب : 9750, 5950, 5750, 5150, 10000, 10050, 10450, 10600, 10700, 10750, 11250, 11300, 5150-5750, 5750-5150 Universal and SCR (9750-10600) and (9750-10600).

عنصر القائمة الثاني هو الدايسك ! اعجبنا ان تكنولوجيا 8D جهزت DSM الموهوب بدايسك 1.0 ، 1.1 فضلا عن يوسالز 1.2 . حتى انه توجد وظيفة الكشف الالي للدايسك ! خلال

رأي أحد الخبراء



يقع كل من الجيلين لبث الفيديو الرقمي عبر الاقمار الصناعية DVB-S/2 و الاشارات التناظرية . يدعم دايسك 1.1 ، 1.0 و الكابل المتحد . مناسب لتحريك اطباق متحركة (دايسك 1.2 و يوسالز 1.2) .

قراءات الجودة مكررة على عرض اشارة سهل القراءة . جودة صورة جيدة جدا على مخرج صوت و فيديو . مخرج اشارة لتوصيل جهاز استقبال .

قراءات جودة الاشارة ليست دقيقة تماما للاطباق الكبيرة و اعدادات الهواة . لا يوجد مؤشر للبطارية (متوفر في البرنامج التشغيلي في المستقبل) . لا توجد قياسات نسبة تعديل الخطأ (تتوفر في البرنامج التشغيلي في المستقبل) .

TECHNICAL DATA	
Manufacturer	8D Technology Ltd., Hong Kong
Webpage	www.8dtek.com
Email	8dtek@8dtek.com
Fax	+852 3965 3222
Model	DSM Gifted
Description	Satellite Meter for Antenna Alignment
C/Ku Band	Yes
SCR	Yes
DiSEqC	1.0 – 1.3 (USALS)
Quantities measured	Signal Level [%], Signal Quality [%], BER
Inputs	L-Band (950-2150 MHz), DVB-S/S2 and analog signal
Outputs	L-Band (looped through), A/V (composite + mono)
Data ports	USB, RS-232
Power Supply	100-240 V 50/60Hz
Dimensions	140 x 100 x 40 mm (ca. 5.5 x 4 x 1.5")

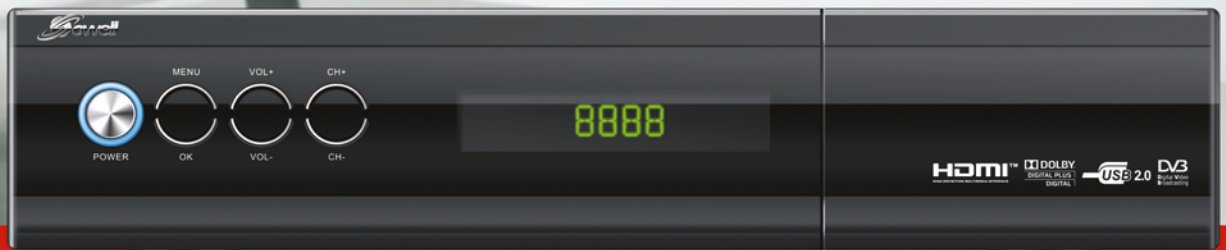


NXP8735 Linux HD DVB-S2+T COMBO



DVB Series

- ▶ Digital Satellite Receiver
- ▶ Digital Terrestrial Receiver
- ▶ Digital Cable Receiver
- ▶ HD/SD COMBO Receiver



Features

- Fully MPEG-2/MPEG-4(H.264/VC-1) and DVB-S/DVB-S2/DVB-T Compliant
- Multi-media Function (Playback TS, MKV, AVI, DivX, XviD, VOB, RMVB, RM etc.)
- Linux OS Embedded with Powerful compatibility
- Recording & Playback with External Storage Devices(e-SATA / USB2.0 / HDD)
- Support HDMI output (up to 1080i)
- USB Hub
- USB WiFi
- Support Youtube
- VFTP Download
- BT Download



- Support SMB
- Ethernet Embedded
- Conax CAS7.0 Embedded
- Common Interface Plus (CI+)
- Plug-in tuner design
- Low-power Consumption

Low-cost MSD7818 HD DVB-T

Features

- Fully compliant with DVB-T standard
- Fully compliant with MPEG-2 ,ISO/IEC 13818-2,MP@HL
- Fully compliant with ITU-T H.264/MPEG4 AVC,ISO/IEC 14496-10(MP&HP@L4)
- Full segment standard MPEG-4 ASP@L5 HD resolution
- Audio decoder compliant with ISO/IEC 13818-3, ISO/IEC 11172-3, AAC/AAC+, AC3
- 1080i/720p/570p/576i/480p video resolution supported
- HDMI 1.2 output interface



- PVR function supported, recording TV and playback media files with external storage devices (USB2.0 / HDD)
- Supporting pictures with JPEG, BMP, PNG
- Supporting music files with WMA, MP3, AAC (wma, mp3, m4a)
- Supporting movie files with MPEG1, MPEG2, MPEG4, H264, Motion JPEG (avi, mpg, dat, vob, div, mov, mkv, mjpeg, ts, trp)
- Capable to playing picture and music at the same time
- Advanced Time-shift function
- Software upgrade by USB2.0 interface

TEST REPORT
该报告由技术专家所作

Satellite Signal Meter

Pitec

8dtek DSM Gifted



- measures all tv signals in DVB-S, DVB-S2 and even the old analog transmissions
- big surprise in such small meter: DiSEqC is included and can even turn a motorized dish
- an A/V output gives excellent pictures on a laptop or monitor
- the meter can stay connected all times because of a loopthrough to connect a second receiver
- a basic spectrum analyzer and BER readings are features mostly found with high-end meters

Download this report in English

www.TELE-satellite.com/TELE-satellite-1107/eng/8dtek.pdf

Its interesting external design attracts attention. Who said that meters must look dull? The bottom panel of DSM Gifted is slightly convex what makes the box look intriguing. Two displays: a color graphic LCD and a classical 2-digit 7-segment LED one - this is also something unusual. A quite practical protective bag with a Velcro strip that you can put around your wrist, enables you to carry the meter like a wrist watch. Definitely, 8D Technology demonstrated with 8dtek DSM Gifted that they are innovative guys.

What you can notice at first sight is a simple membrane keyboard made up of just 12 buttons. It promises simple operation and, as

you will learn after reading this report, this promise is really fulfilled. LED indicators signal meter status. Two F connectors located on the opposite sides are: the LNB input and the looped-through output for a satellite receiver. Not many meters are equipped with such a looped output and sometimes we really missed this feature when testing competitor products.

Closer examination reveals that on both sides of the meter there are flaps covering additional connectors. We have a USB port for backing up meter's settings, as well as for loading the meter with firmware updates. There is a power supply socket that accepts either a cable from a wall

socket power supply or a car lighter charger - both are included in the set. And, rather unexpectedly, there is an A/V output with composite video and mono audio output. It has an additional function - it can act as an RS-232 serial interface. Quite unusual, but do not worry - suitable A/V and RS-232 cables are also included.

There are provisions for the other inputs/outputs (Ethernet and HDMI) under the flap on the opposite side of DSM Gifted. However, they are not installed in this meter model. We will soon publish a report covering another, more advanced, DSM model which is equipped with the Ethernet port. Keep reading



TELE-satellite! Anyway, it is impressive how many interfaces have been embedded in such a tiny box. The on/off switch mounted on the top side of the box ends the list of meter controls.

DSM Gifted, right after switching it on, takes you to the Main menu. The menu consists of 6 items: Sat Find, DiSEqC, Local Sat, Spectrum, Angle and Settings. There is only one menu level so the navigation is pretty simple. Menu, OK and the arrow buttons let you do all the main set-

tings. Occasionally, you use function buttons F1-F4. Their function depends on the selected menu items and is always described at the bottom of the screen. SPCM and SAT are the shortcut buttons that take you directly to the frequency spectrum view and local satellites view

Sat Find is probably the most important menu item accessible from the main menu. Here, you can set: the satellite, LNB frequencies, transponder, scan type. In the same screen, you get the measurement results: signal level and signal quality expressed in percentages and bit error rate. The signal quality percentage reading is repeated on the two digit LED display. This is a great idea because the figures on the LCD screen are rather small and hard to read from a distance. When turning the dish, you can also refer to the bar graphs showing signal strength and quality.

At the bottom of the screen, there are 3 help tips on what the function buttons can do when in this menu item. The red F1 button is used to edit a transponder, the green F2 button to add new transponder

and the yellow F3 to delete the present transponder. This is a quite useful feature because in different regions of the world various transponders of the same satellite are receivable. So, it is impossible to create a common list of transponders for, say, Spain and Russia. If some of the ten transponders assigned to every satellite in the original list prepared by 8D Technology are not receivable in your area, simply delete them and add the other ones. Alternatively, edit them by changing their frequency, symbol rate and polarization.

Now let's start the fun: how does DSM Gifted perform in real life? We started with measuring signal quality. It turns out, that DSM Gifted, like in a typical satellite receiver, the quality result does not change in 1 % steps but with 6 or 7 % step. If we take into account that the results lower than 53% are practically below the reception threshold, we are left with 8 levels: 53%, 60%, 66%, 73%, 80%, 86%, 93% and 99%. So to find an ideal maximum when turning a dish or skewing an LNB in its holder, you have to find the limits where the reading drops

down by 6-7% and then set the dish/LNB somewhere in between.

DSM Gifted allows you as well to check BER. However, like with all other meters too, the BER readings are unstable, which is how it is with digital transmissions and their ever changing contents. But DSM Gifted goes one step further: you can also measure MER. This is the best measurement one can have (modulation error ratio). MER is stable and can be measured with 0.1 dB resolution. Our test sample was not yet equipped with MER readings, but 8D Technology are planning to enhance DSM Gifted with MER measurements in one of their next firmware upgrades.

See the chart in Figure 1 to see how the percentage reading of our test sample was correlated with MER and Loss Margin results measured with an expensive professional meter.

From the practical point of view of a satellite installer: the percentage readings, in the form they are implemented now in DSM Gifted, enable you to direct 60-90 cm dishes for popular satellites in a simple way and with acceptable preci-

sion. We would not recommend DSM Gifted with the present firmware for dishes 120 cm or larger. And if you are fighting for a split decibel in order to work a weak transponder (like true satellite enthusiasts often do) this meter can only be used for the initial setup.

On the other hand, 8D Technology can really be proud of the number of frequencies they offer in the Sat Find menu item. Here is the impressive list of local oscillator frequencies (LOF's) you can select in DSM Gifted: 5150, 5750, 5950, 9750, 10000, 10050, 10450, 10600, 10700, 10750, 11250, 11300, 5150-5750, 5750-5150, Universal (9750-10600) and SCR (9750-10600).

The second menu item is DiSEqC. We were impressed that 8D Technology equipped DSM Gifted with DiSEqC 1.0, 1.1 as well as 1.2 and USALS. There is even DiSEqC auto detection function! During our whole test, USALS was operating without any problems. We turned our dish quite a number of times during this test powering the motor from this tiny meter. That's what every installer will really appreciate.

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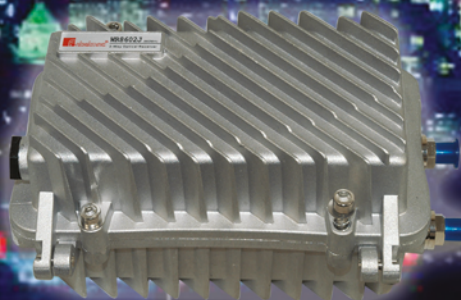
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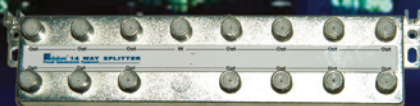
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WR8604JL 4 OUTPUT OPTICAL RECEIVER



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WDE-4420 ENCODER

WDE-4220 MPEG-2/4 ENCODER

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WDM-3204 QAM MODULATOR

WDE-H2220 HD ENCODER

WDT-1204 TS RECEIVER

4 OUTPUT RETURN OPTICAL RECEIVER

WR8602JDS ROOM OPTICAL RECEIVER

OPTICAL SWITCH

WR8602RJL ROOM OPTICAL RECEIVER

1550nm INTERNAL MODULATION OPTICAL TRANSMITTER

1550nm EXTERNAL MODULATION OPTICAL TRANSMITTER

1310nm EXTERNAL MODULATION OPTICAL TRANSMITTER

ERBIUM DOPED FIBER AMPLIFIER

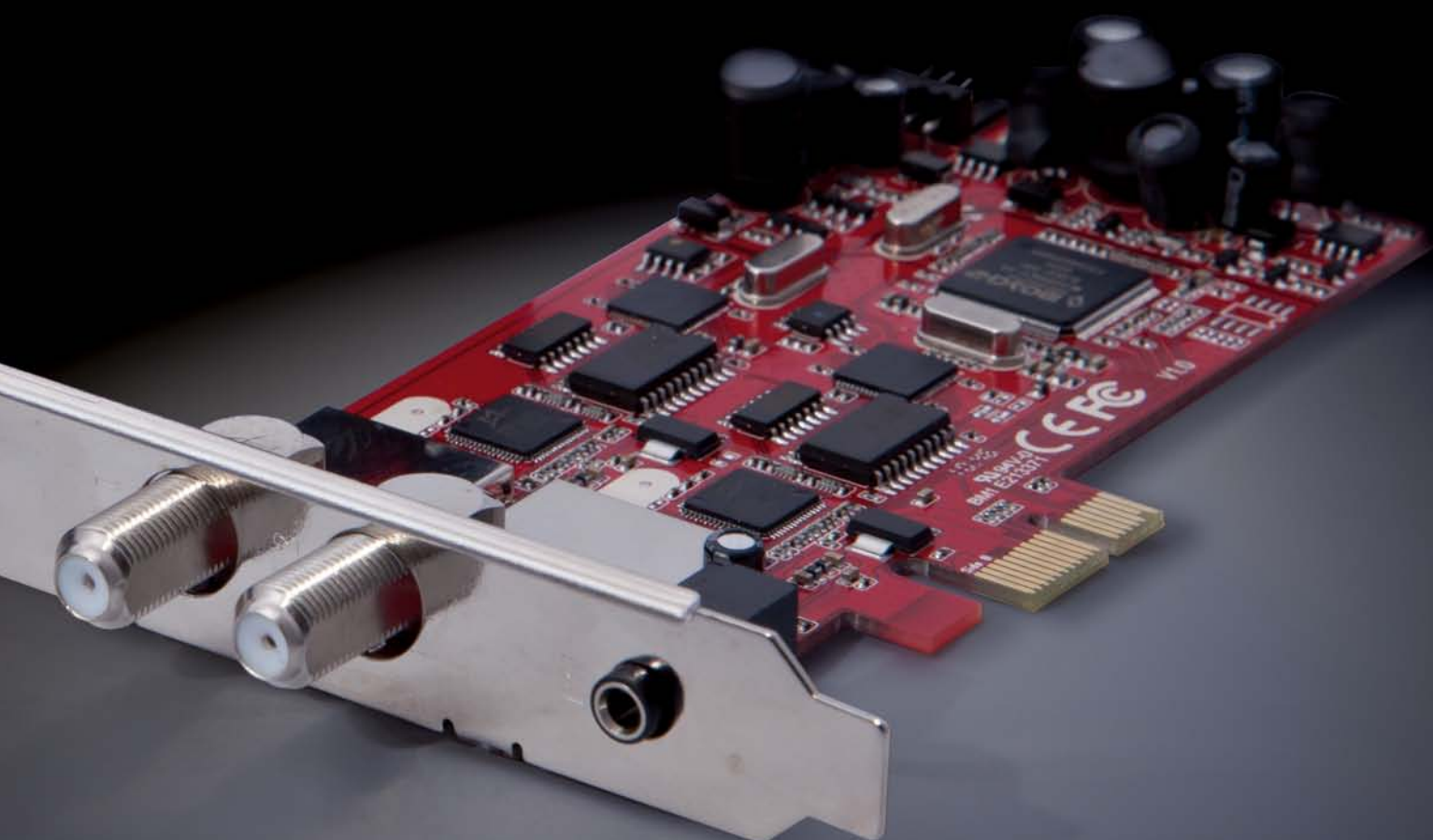


CATV OPTICAL FIBER COMMUNICATION SYSTEM PLATFORM WOS-3000

تبفي S480 بموالفي جيل ثاني لبث الفيديو الرقمي عبر الاقمار الصناعية DVB-S2

- موالفين منفصلين للتلفزيون فائق الجودة
- يتضمن برنامج متطابق تماما للتلفزيون و البيانات
- يتناسب بشكل جيد مع مكونات الحاسوب
- يقوم بترقية الحاسوب الى مسجل فيديو شخصي فائق الجودة كامل الوظائف
- التوصيل و التشغيل لويندوز و برامج تشغيل للينكس .

TVii



تلفزيون فائق الجودة ثنائي الموالف بطاقة مسجل فيديو شخصي للحاسوب

و حيث ان بطاقة تيفي بموالفها عليها ان تزود بالطاقة و حدثي خفض ضجيج و بذلك ستزيد الرقاقة المدمجة على البطاقة الطلب على حاجات الطاقة ، وسيكون من الاكثر منطقية توصيل مخرج مناسب من وحدة امداد الطاقة

في الحاسوب الى بطاقة تيفي . هذا سيضمن ان هذه البطاقة ستحصل على طاقة كافية للقيام بعملها ، و ان فتحة pci-e لوحدها لن تكون قادرة على التعامل مع متطلبات الطاقة

بعد تثبيت البطاقة ، يتم توصيل مدخلي الموالف بسرعة لنظام القمر الصناعي

استقبال للجبلين لبث الفيديو الرقمي عبر الاقمار الصناعية DVB-S/S2 كامل الوظائف . ف جهاز التحكم يجلس بشكل مريح في يدك ، تسمياته مناسبة و ياتي بازرار يسهل الوصول لها و سهلة على اصابعك .

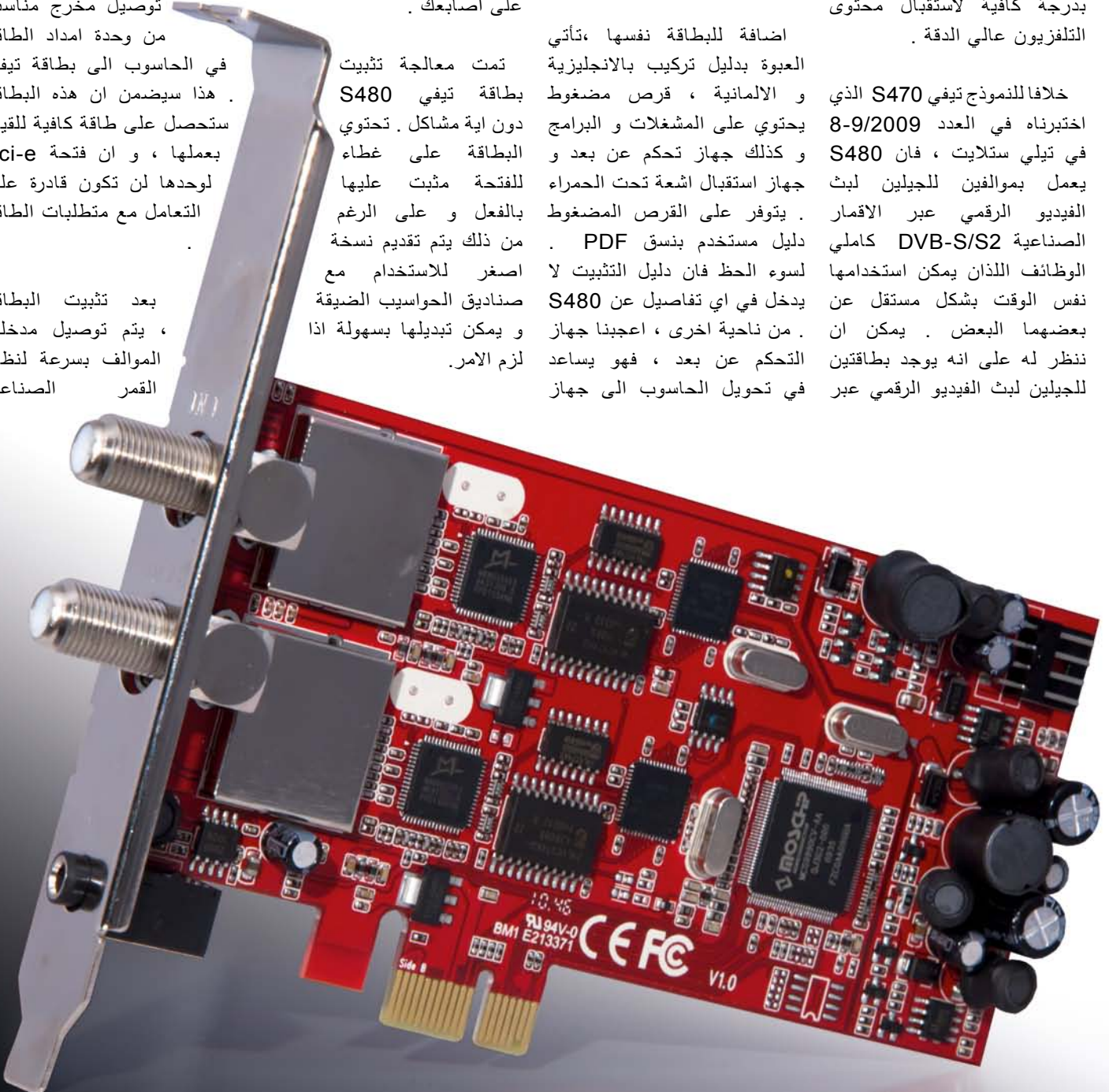
تمت معالجة تثبيت بطاقة تيفي S480 دون اية مشاكل . تحتوي البطاقة على غطاء للفتحة مثبت عليها بالفعل و على الرغم من ذلك يتم تقديم نسخة اصغر للاستخدام مع صناديق الحواسيب الضيقة و يمكن تبديلها بسهولة اذا لزم الامر .

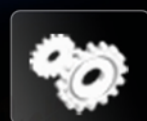
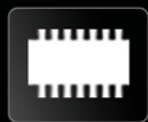
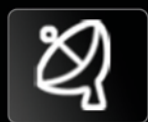
الاقمار الصناعية DVB-S/S2 منفصلتين مثبتتين في الحاسوب الا ان المكونات الكاملة لكلا البطاقتين موجودتين على لوحة دائرة واحدة و بذلك يتم شغل فتحة واحدة في الحاسوب .

اضافة للبطاقة نفسها ، تأتي العبوة بدليل تركيب بالانجليزية و الالمانية ، قرص مضغوط يحتوي على المشغلات و البرامج و كذلك جهاز تحكم عن بعد و جهاز استقبال اشعة تحت الحمراء . يتوفر على القرص المضغوط دليل مستخدم بنسق PDF . لسوء الحظ فان دليل التثبيت لا يدخل في اي تفاصيل عن S480 . من ناحية اخرى ، اعجبنا جهاز التحكم عن بعد ، فهو يساعد في تحويل الحاسوب الى جهاز

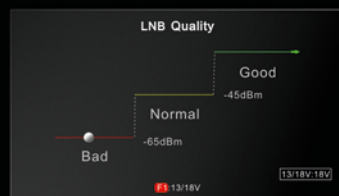
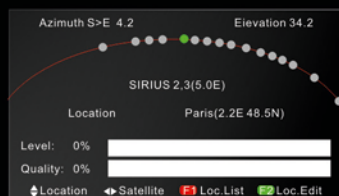
ان S480 هي بطاقة توسيع بي سي اي اكسبرس PCI.E للحاسوب . ان استخدام فتحة PCI-E ضرورية تماما لان معدل نقل البيانات في فتحة PCI القياسية يمكن ان لا يكون جيدا بدرجة كافية لاستقبال محتوى التلفزيون عالي الدقة .

خلاف للنموذج تيفي S470 الذي اختبرناه في العدد 8-9/2009 في تيلي ستلايت ، فان S480 يعمل بموالفين للجبلين لبث الفيديو الرقمي عبر الاقمار الصناعية DVB-S/S2 كاملي الوظائف للذان يمكن استخدامها نفس الوقت بشكل مستقل عن بعضهما البعض . يمكن ان ننظر له على انه يوجد بطاقتين للجبلين لبث الفيديو الرقمي عبر





DVB S2



Installation Meter & Full Measurement for DVB-S2

Real-Time and Multi-Analyzing Spectrum

Constellation Chart

LNB Test MDU & Unicable

BER, S/N(MER),FEC Measurement

Auto Search,Blind Search,NIT Search,Manual Search

Satellite Name & Degree Auto Detective & Display

Auto DiSEqC1.0/DiSEqC1.1/DiSEqC1.2,USALS

Local satellites list showing automatically

Easy upgrading by Ethernet & USB & RS232 Port

Satellite List Editable by Editor via PC

Li-ion Battery(2350mAH), last 6 hours, Fast Charge(2 to 3 hours)

Accessories: Adaptor,Car Charger,upgrading cable,AV cable,

Water-Proof Bag,Compass,User Manual

Size:162x100x42(mm) Weight: 0.45kg

Tiny But Mighty



Xtra-S

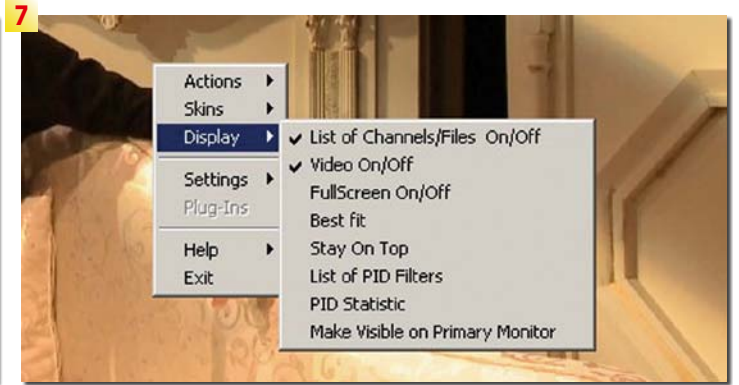
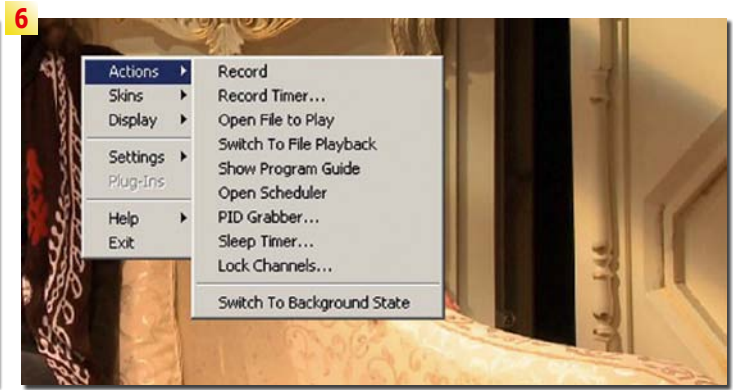
Minisat-plus S2/NIT/DS

Minisat-basic S2/NIT



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Milestone DTV Device Creator

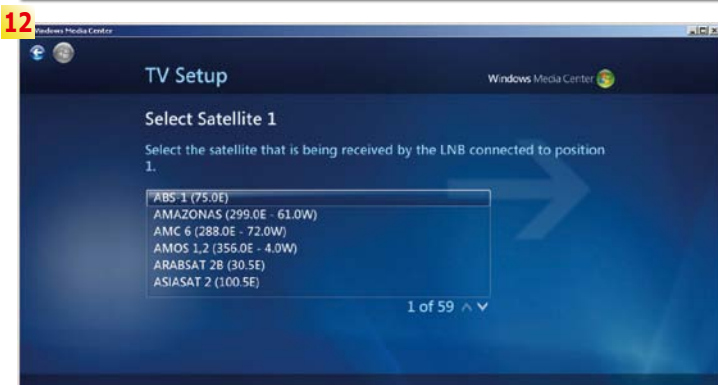
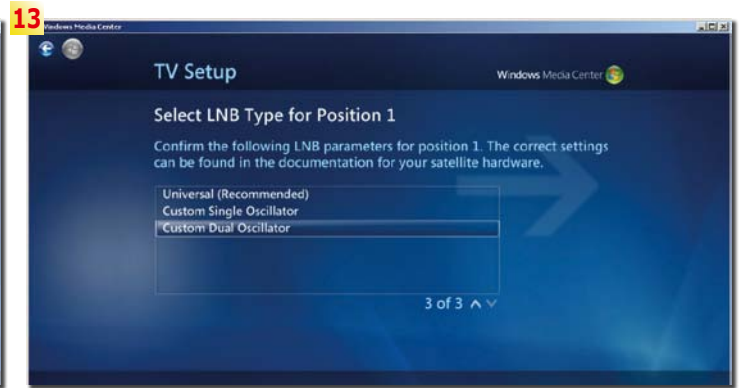


- 1 - قائمة قنوات مرتبة حسب الناقل .
- 2 - قائمة الإعدادات .
- 3 - تحرير خصائص القناة .
- 4 - عرض دليل البرنامج الإلكتروني على الجانب السفلي لنافذة القناة .
- 5 - قائمة القنوات مرتبة حسب الشبكة .
- 6 - إمكانيات التحكم المختلفة في برنامج ماي تيفي . ملاحظة رابط الملحقات ليس نشطا لأنه خلال اعداد اختبارنا لم نقم بتنصيب أي ملحقات .
- 7 - انماط العرض المختلفة لماي تيفي .
- 8 - البحث عن الناقل في ويندوز ميديا سنتر .
- 9 - البحث عن القنوات .
- 10 - تم العثور على قنوات جديدة .
- 11 - قائمة الإعدادات .
- 12 - قائمة الأقمار المبرمجة مسبقا .
- 13 - اعدادات وحدة خفض الضجيج .
- 14 - ويندوز ميديا سنتر جاهز للاستقبال عبر تيفي S480 .
- 15+16 - قناة TRT فائقة الجودة على قمر تركسات 42 درجة شرق .

و يتم توصيل جهاز استقبال الاشعة تحت الحمراء في المقبس المناسب في البطاقة . اصبح s480 جاهزا للعمل .

على الرغم من كون بطاقة تيفي S480 هي الانسب لاستقبال التلفزيون فائق الجودة فانه لا يفرض اي متطلبات خاصة على الحاسوب نفسه . ان متطلبات استقبال التلفزيون فائق الجودة المجاني حسب الشركة المصنعة :

معالج 2.4 جيجا هيرتز ، بطاقة رسومات بذاكرة 128 ميجا و ذاكرة 1 جيجا بايت . اذا كنت ستشاهد قنوات قياسية الجودة ،



خاصة للينكس. يحتوي القرص المضغوط ، على برنامج ماي تيفي والذي هو التحكم المركزي بجميع وظائف البطاقة و كذلك تحتوي على برنامج بيانات تيفي لاستقبال الانترنت عبر الاقمار الصناعية . المجموعة الكاملة مصحوبة بنسخة تجريبية للبرنامج المعروف جيدا بروج دي في بي PROG DVB . ان تثبيت برنامج التشغيل و ماي تيفي حصل بدون مشاكل و بشكل الي كليا . هذا ما يعنيه التوصيل و التشغيل ، فانت حتى لا تحتاج لاعادة تشغيل الحاسوب بعد تثبيت المشغلات . يقدم مساعد التثبيت ايقونين لبرنامج ماي تيفي على سطح المكتب في الحاسوب ، واحدة بتسمية وحدة خفض الضجيج 1



LNB1 و الثانية LNB2 . لانه ليس عيب في برنامج التشغيل . بدلا من ذلك ، اوجد تيفي امكانية لفتح نافذتي ماي تيفي في نفس الوقت و مستقلة تماما عن بعضها البعض .

و بالطبع فانه من المنطقي ان عدد كبير من الاعدادات و معلمات الاستقبال يمكن اعدادها لكل مدخل موالف منفصل و مستقل عن الاخر و بما في ذلك جميع خطوات الاعداد الضرورية لوحدة خفض الضجيج 1 1 LNB ووحدة خفض الضجيج 2 LNB2 .

يُعمل برنامج ماي تيفي بشكل جيد مع جميع اوامر بروتوكولات الداييسك و بذلك يمكنك من استخدام البطاقة بوحدة خفض ضجيج واحدة ، مع داييسك 1.0 ، و مع ما يصل الى اربعة وحدات خفض ضجيج اضافة الى نظام داييسك 1.1 الاكثر تعقيدا مع ما

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Multimedia HDTV CI Plus PVR

DVB-S2



Model: S4-1HD

- Fully compliant with DVB-S and DVB-S2 (MPEG 2/ MPEG 4 / H.264)
- Common Interface Plus (CI+) available
- Optional smart card slot for embedded CA support
- Full HD output in 720p, 1080i, 1080p
- Up to two USB 2.0 available for software update and PVR
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- Multimedia functions: plays back files in MKV, AVI, MP4, TS, MPG, JPG, MP3 and etc.
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- Parental control, teletext and subtitle supported

- Multilingual Menu OSD supported
- Extension to ISDB-T, DVB-T, DVB-C HD Optional
- CE & RoHS, LPC, EuP, FCC Compliant



Real Panel

Satellite/Terrestrial/Cable Meter



Online Sat-finder

LED TV | 3D TV | Google TV



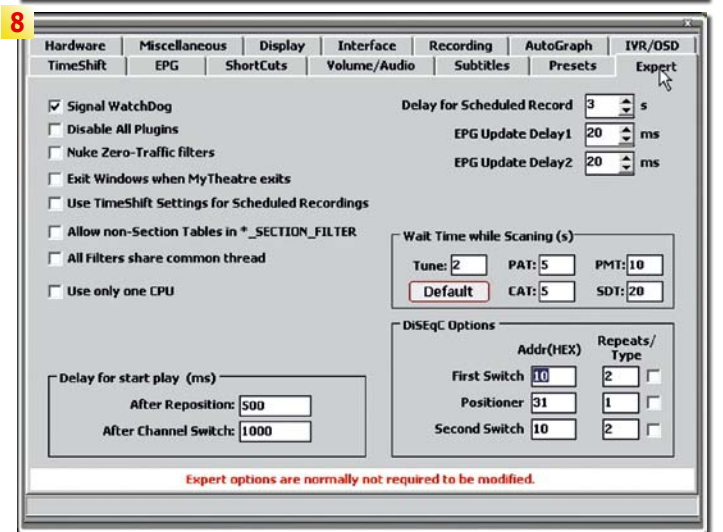
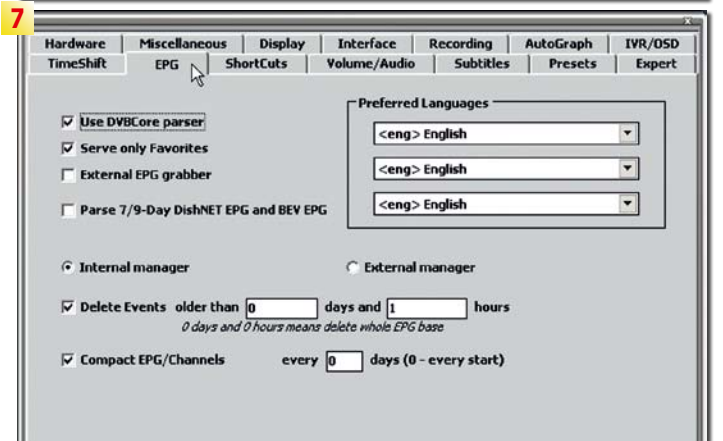
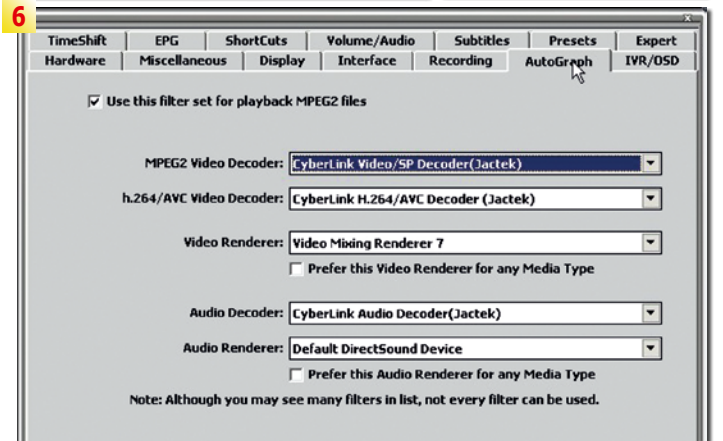
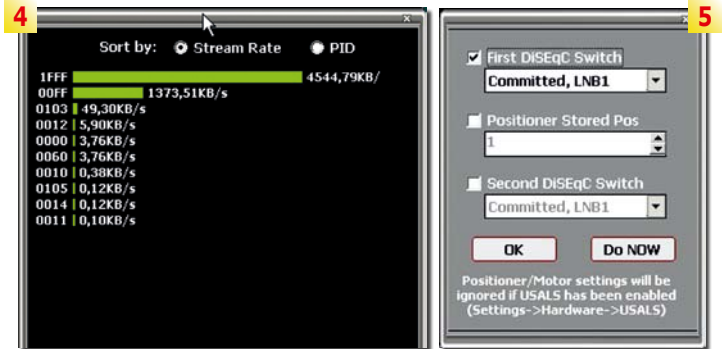
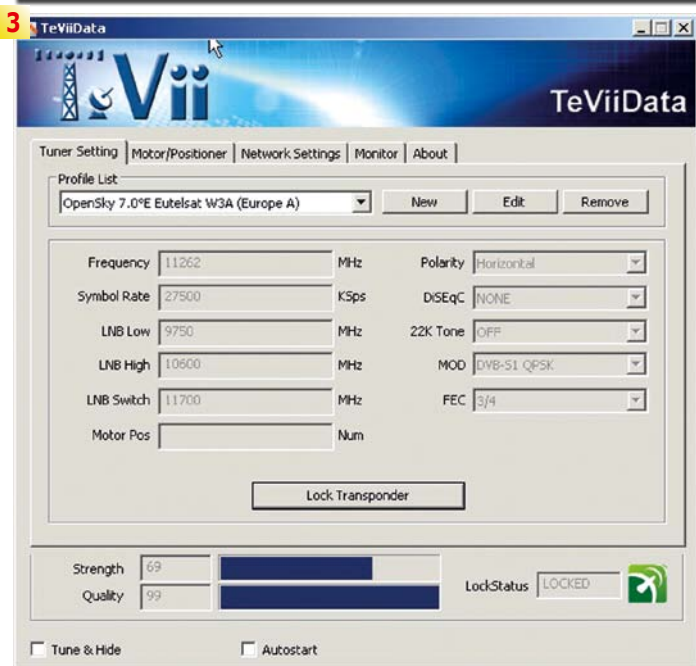
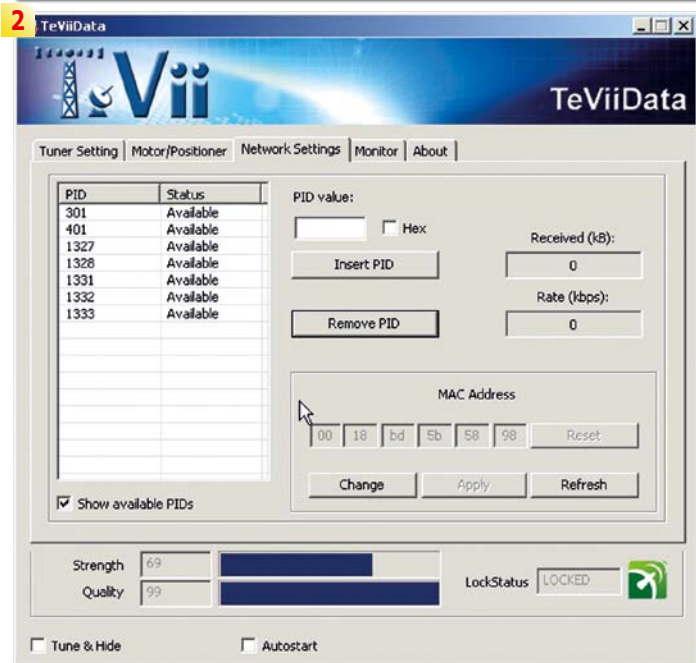
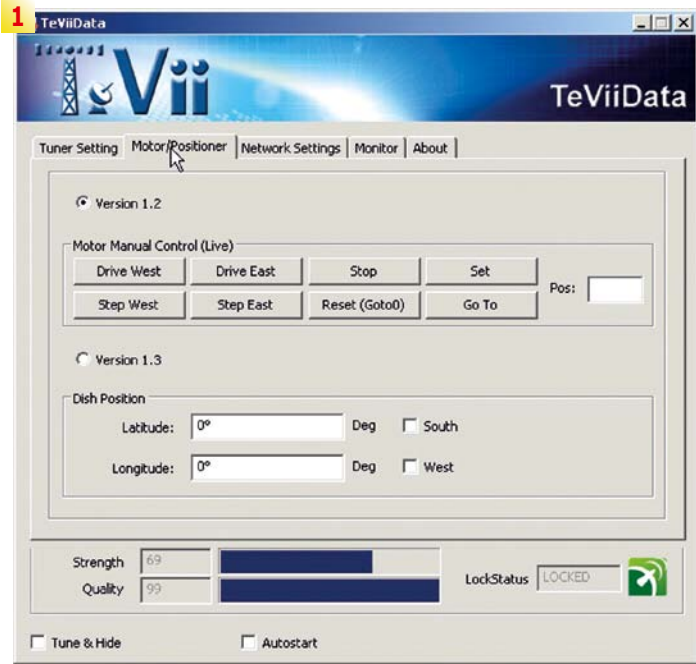
Display Size
• 26"
• 32"
• 42"

GlobalSat
International Technology Ltd.

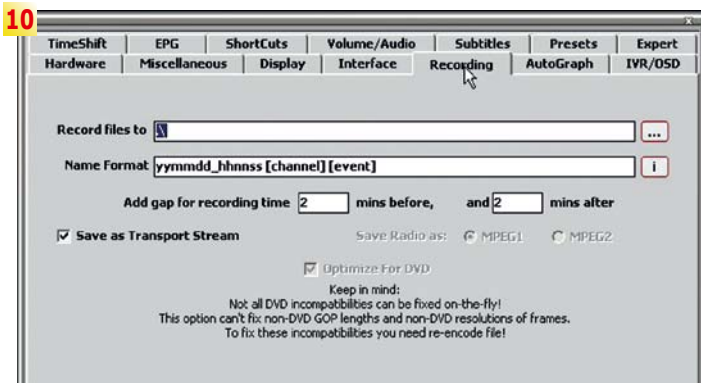
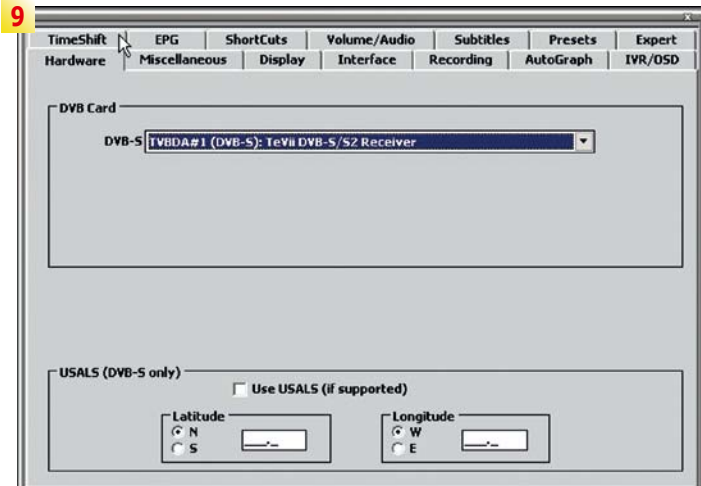
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الإيجابي عن طريق القدرة على الترددات و الأقمار الصناعية في استخدام هذه البطاقة مع تطبيقات قائمة البحث عن القنوات هو شيء عملي على وجه الخصوص . يمكنك إضافة ترددات أو أقمار صناعية ان القدرة على تحرير بيانات جديدة أو تعديل البيانات الموجودة



- 1 - يمكن لبرنامج بيانات تيفي العمل مع دايكس 1.2 و 1.3 (يوسالز) .
- 2 - يتعرف برنامج بيانات تيفي أليا على البيدات PID المتاحة على الناقل المختار .
- 3 - برنامج بيانات تيفي لاستقبال الانترنت عبر القمر الصناعي .
- 4 - معدل البيدات للبيانات المعرفة لبرنامج بيانات تيفي .
- 5 - اعدادات دايكس .
- 6 - يمكن اختيار الرمز المناسب لكل اشارة واردة .
- 7 - اعدادات دليل البرنامج الالكتروني .
- 8 - اعدادات الخبراء لبرنامج ماي تيفي .
- 9 - اختيار المكونات واعدادات يوسالز .
- 10 - اعدادات التسجيل .
- 11 - قائمة الترددات و الأقمار الصناعية الموسعة المبرمجة مسبقا في برنامج ماي تيفي .
- 12 - استقبال قناة واحدة للناقل SCPC في تيفي S480 .
- 13 - استقبال قناة واحدة للناقل SCPC في تيفي S480 .

وظائف البحث عن القنوات هي ايضا منطقية ، تم التفكير فيها بشكل جيد و سهلة الاستخدام . على سبيل المثال ، يمكنك البحث عن تردد واحد من القمر الصناعي ، عدة ترددات او جميع مدخلات الترددات . يتم التعرف على معدل تصحيح الخطأ FEC من قبل الموالفين بشكل الي .

اعجبنا جدا بموالفي تيفي ليس فقط انهما يتطلبان طاقة قليلة و بذلك يشعان حرارة قليلة ، ولكن يعملان على ما يسمى خاصية اطفاء وحدة خفض الضجيج LNB OFF تقوم هذه الميزة باطفاء الطاقة عن وحدة خفض الضجيج طالما ان الموالف على البطاقة لا يتم الوصول اليه .

في النهاية اهتم الموالفين بجميع المهام بلا جهد بما في ذلك استقبال القناة الواحدة للناقل SCPC و البحث الاالي

بالمدخلات ، لن تكون فكرة سيئة القاء نظرة سريعة على المجموعة الواسعة من الاعدادات الاساسية . يمكن ضبط كل معلمة يمكن تصورها حسب متطلبات المستخدم و هذا ما يتم مقارنة بطاقة فتحة التوسع الخاصة بالحاسوب S480 بجهاز استقبال ، اذا كان الحاسوب المستخدم قديم او المعالج ليس الاسرع في العالم ، فان الحمل على المعالج او بطاقة الرسومات يمكن اطفائها على سبيل المثال ، يمكن اطفاء خاصية إيقاف الوقت . و يمكن ضبط اختصارات لوحة المفاتيح لكل وظيفة ممكنة.

يمكن اختبار مرمزات الصوت

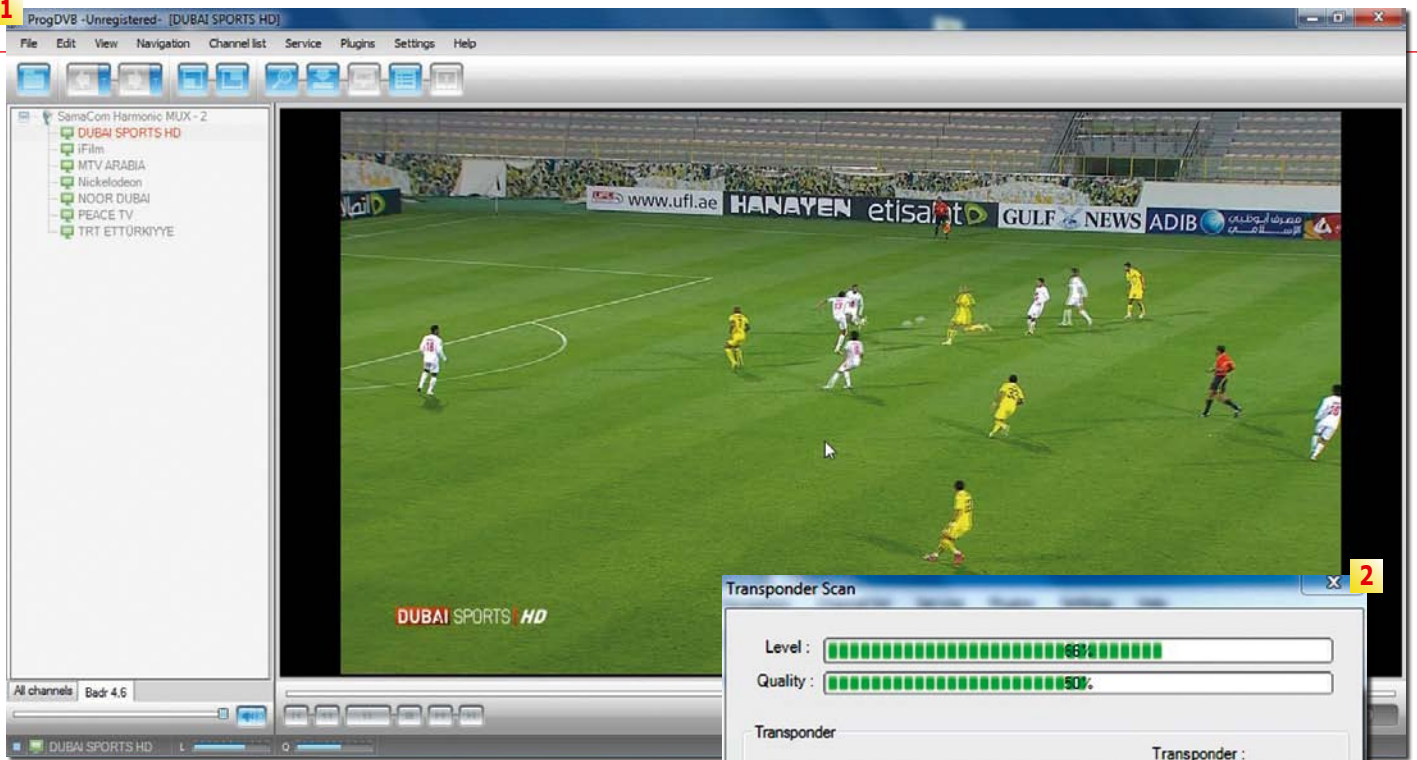
120سم و لكن هذا القمر الصناعي نفسه في مدار مائل مما يجعل الاستقبال الثابت لفترات اطول من الوقت اكثر صعوبة . اتقن تيفي S480 هذه المهمة و قدم لنا استقبال جيد .

و حيث ان بطاقة S480 متوافقة مع جيلي بث الفيديو الرقمي عبر الاقمار الصناعية DVB-S/ S2 ، فيمكنه تعديل BPSK و QPSK في بث الفيديو الرقمي عبر الاقمار الصناعية DVB-S و QPSK و 8PSK في الجيل الثاني لبث الفيديو الرقمي عبر الاقمار الصناعية DVB-S2 .

بعد ملء قائمة القنوات

اظهرت ايضا بطاقة تيفي S480 قدراتها خلال البحث الاالي عن القنوات لقمر هوتبيرد على الموقع 13شرق ، تم اتمام هذا العمل باكثر من ستة دقائق بقليل ، و بفضل الترددات المحدثة ، تم التعرف تقريبا على كل قناة يمكن استقبالها .

لاكمال اختبار الموالف ، علينا بطبيعة الحال التحقق من مدى جودة اداء الموالفين مع الاشارات الضعيفة . لهذا حركنا طبقنا الى قمر اكسبريس AM1 على الموقع 40 درجة شرق ، حيث ليس فقط الترددات الفردية على هذا القمر الصناعي صعبة الاستقبال بطبق



ايضا استقبال الانترنت عبر القمر الصناعي على موالف بينما يستخدم الموالف الآخر لاستقبال التلفزيون .

اثناء العرض يمكنك التنقل بين مسارات صوت متعددة و كذلك الوصول الى الترجمات المتوفرة بمجرد نقرة فارة . يمكن عرض القنوات فائقة الجودة بدقة حتى 1080i ، يمكن تحديد التسجيلات بنسق MPEG وكذلك TS (تيار التردد) و يمكن بالتالي معالجتها بواسطة جميع برامج التحرير المختلفة مثل ستوديو DVR و تحويلها الى دي في دي DVD . يمكن لبيانات العرض على الشاشة OSD في برنامج ماي تيفي ان تتواصل مع المستخدم بالانجليزية ، الفرنسية ، الالمانية ، العربية ، الصينية ، الفنلندية ، الايطالية البولندية ، الروسية ، الاسبانية و السويدية . اثبتت ميزة تغيير الشكل انها ممتعة ، يمكن ان يتم استخدامها لتعديل مظهر البرنامج بمجرد بعض نقرات من الفارة لتتماشى مع ذوق المستخدم . تأتي العبوة بمظهرين و لكن يمكن تحميل المزيد من الانترنت .

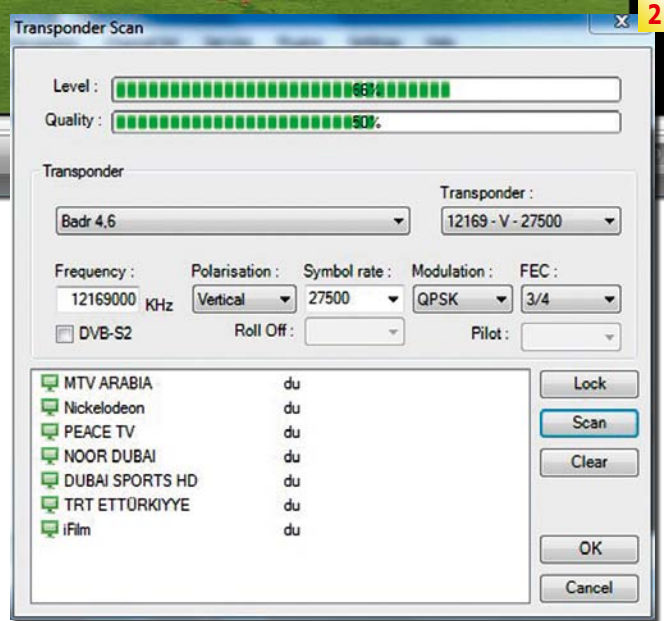
بفضل جهاز التحكم عن بعد المرفق ، يمكن التحكم ببرنامج ماي تيفي براحة عن اريكتك ،

ببرنامج ماي تيفي و بالتالي تكون كل التغييرات مرئية مباشرة .

تم تصميم دليل البرنامج الالكتروني في تيفي بوضوح ، يتم عرض برامج الايام السبعة القادمة بما في ذلك المعلومات التفصيلية للبرنامج بطريقة منظمة ، و مرة اخرى ، اذا كانت البيانات متوفرة من المزود .

بالطبع يمكن ادخال مدخلات المؤقت مباشرة من دليل البرنامج الالكتروني ، و كما يمكن ان تتوقع من منتج كبير مثل هذا ، فان البرنامج يمكن ان يخرج الحاسوب من وضع الاستعداد لتسجيل برنامج . و العكس صحيح : عند ضبط مدخلات المؤقت ، يمكن للمستخدم ان يختار ابقاء الحاسوب في وضع تشغيل او ان يتحول الى وضع الاستعداد بعد انتهاء التسجيلات . بهذه الطريقة لا يحتاج الحاسوب ان يبقى في وضع تشغيل طوال اليوم لتسجيل برنامج واحد .

ان وقت التحويل بين القنوات لقناتين على ترددين مختلفين هو 2-3 ثواني ، بالنسبة للحاسوب فان هذا سريع جدا . بفضل الموالفين ، يمكن مشاهدة قناة ثانية في نافذة ثانية بينما يتم التسجيل في النافذة الاولى . يمكن



1. Dubai Sports HD via ProgDVB

2. Transponder scan of BADR 26° east in ProgDVB

كامل الجانب الايسر من النافذة مخصص لعرض اشارة التلفزيون . على الحافة السفلية من النافذة يمزج البرنامج جميع المعلومات حول القناة المختارة في حال كانت البيانات متوفرة) .

يمكن ترتيب و فرز قائمة القنوات بعدة طرق ، على سبيل المثال ، يمكن تجميع القنوات حسب الباقة ، التردد او القمر الصناعي . طبيعي انه يمكن تحميل قوائم المفضلة بجميع قنواتك المفضلة . يمكن اخفاء القنوات الغير مرغوبة من القائمة بمجرد نقرة فارة واحدة في حين يمكن اغلاق قنوات الكبار عن المشاهدة من قبل الاطفال برقم سري . العملي هنا ان كل هذا العمل يتم في النافذة الرئيسية

، الفيديو و فائق الجودة بشكل فردي . كل مرمر لمعالجة الصوت و الفيديو و بذلك فان اختيار مرمر له تاثير مباشر على الصورة المعروضة من البطاقة . اذا ، على سبيل المثال ، كنت تستخدم بطاقة رسومات تدعم استقبال التلفزيون فائق الجودة ، يمكنك الحصول على ادنى متطلب للمعالج عن طريق استخدام المرمر الموصى به من شركة تصنيع بطاقة الرسومات بدلا من المرمر القياسي الموجود في برنامج ماي تيفي . تحتوي S480 على جميع امكانيات الاعداد اللازمة لهذا الغرض .

ان النافذة الرئيسية لبرنامج ماي تيفي معدة بشكل جيد و منظمة . بينما الجانب الايمن من النافذة مخصصة لقائمة القنوات ، فان



Factory address:
No. 3 PingGong One RD, Technology Industrial Zone, NANPING Town, Zhuhai, China
Tel: +86-756-8699310 Fax: +86-756-8699312
Mobile: +86-13823060786
E-mail: sales@boiingsat.com
Attn: Joseph

TAIWAN & MACAU Office address:
RUA TRIBUNA 118A CHUNPEK GARDEN RCA Macau
Tel: +853-439694 Fax: +853-438633
E-mail: jason@boiingsat.com & jason975219@gmail.com
Mobile: +86-13703006026 & +886-983210314
Attn: Jason

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اضافة لذلك ، فان جهاز التحكم عن بعد الخاص بتيفي متوافق مع ويندوزما يعني انه يمكنك التحكم بكل شئ من اريكته المريحة .
اضافة لذلك ، اضافة لبروج دي في بي ProgDVB ، ويندوز ميديا سنتر ، توجد برامج اخرى يمكن استخدامها مع S480 لاستقبال التلفزيون . جدولنا يعرض روابط لهذه البرامج .

بعد استقبال التلفزيون ، أردنا أيضا فحص استقبال الانترنت . أرفقت تيفي البرنامج المطلوب ل S480 : بيانات تيفي . تماما مثل ماي تيفي ، بيانات تيفي تأتي بقائمة محدثة جدا بمزود الانترنت عبر القمر الصناعي . في معظم الحالات فان كل ما تحتاج القيام به هو اختيار مدخل من القائمة و على فرض انه لديك الخدمة مع هذا المزود ، فيمكنك البدء بسرعة . خلال اختياراتنا عمل برنامج بيانات تيفي دون اي مشاكل وزودنا بوصول للانترنت عبر قمر يوتلسات W3A على الموقع 7 درجات شرق .

أثبتت بطاقة PCI-E تيفي نفسها بعدة طرق خلال اختياراتنا : انها واحدة من أولى بطاقات الحاسوب التي تعمل بموافيق كاملتي الوظائف والتي يمكن استخدامها معا ببرنامج تيفي الخاص . بفضل البناء الحديث لتيفي ، فانه يشع القليل من الحرارة ، هذا سيجعل المستخدمين سعداء حيث ان نظام التبريد في الحاسوب لا يحتاج أن يعمل بطاقة عالية وبذلك لن يصدر الكثير من الضوضاء .

أظهر برنامج تيفي بنجاح قدرته من خلال اختياراتنا على الرغم من أن برامج بديلة مثل برود دي في بي ProgDVB أو ويندوز ميديا سنتر يمكن اذا لزم الأمر استخدامها . نوعية تشغيل الصوت والفيديو كانت استثنائية . ينبغي أن اذكر انه للهواة يمكن عرض MPEG 4:2:2 مع الترميز الملازم من اليكارد .

معدودة بث بدقة 1920x1080p (الكاملة) و اخيرا ضغط الفيديو و نسبته . في اختبار اخر بمعالج انتل كورتودو 2.6 جيجا هيرتز ، قام الجهاز بتسريع بطاقة الفيديو و دعم فك الترميز، كان الحمل 2-5% على أقصى مستوى اشارة فائقة الجودة بمعدل 1920x1080p . يعتمد كل شيء في النهاية على المكونات التي تستخدمها في حاسوبك .

لا توجد في تيفي S480 فتحات واجهة مشتركة او اي قارئ بطاقة مدمج . قد تعتقد ان هذا يجعل من المستحيل استقبال اي قناة مشفرة . و لكن توجد الاميوهات و مشاركة البطاقة . من خلال واجهة الملحقات المدمجة يمكن تفعيل البرنامج اللازم لاستقبال التلفزيون المدفوع . عمل في اختياراتنا تيفي S480 بشكل جيد على الرغم من ان المعالج الثاني سبب بعض المشاكل و لم تكن امكانية للوصول اليه في نفس الوقت .

بدت الامور افضل مع ويندوز ميديا سنتر . ياتي متضمننا البدء بنظام تشغيل ويندوز فيستا و بطاقات تيفي متوافقة معه تماما . يمكن لويندوز ميديا سنتر التواصل بالكامل مع تيفي S480 و لكن لا ياتي بهذا الكم من قدرات الاعدادات كبرنامج ماي تيفي . خلال تجاربنا عمل كما هو متوقع منه فقد تعامل مع البحث عن القنوات باكثر من 11 دقيقة ووجد جزء ضئيل من القنوات مقارنة مع برنامج ماي تيفي .

من الواضح ان هذا حل عالمي و على النقيض لماي تيفي لم يتم تخصيصه فقط لجهاز S480 و كنا سعداء لرؤية ان ويندوز ميديا سنتر كان قادرا على معالجة تسجيلات متعددة و عرض قناتين(حتى فائقة الجودة) عبر الموافين . على النقيض لماي تيفي ، لم تكن قادرين على عرض قناتين فائقة الجودة في نفس الوقت و لكن على الرغم من ذلك ، كان المواف الثاني متاحا للتسجيل .

لبطاقة حاسوب ثنائية المواف في وضع القنوات فائقة الجودة . فقط عندما قمنا بتشغيل قناتين فانقتي الجودة في نفس الوقت تم دفع نظامنا الى أقصى طاقة : أصبح من المستحيل القيام بأي عمل مجدي آخر في الحاسوب . لكن يتوجب علينا القول أن عرض القنوات فائقة الجودة كان يتم بسلاسة دون تدخلات . الدرس هنا واضح ، يعتمد اداء تيفي S480 بدرجة كبيرة على اذا ما كانت بطاقة الفيديو في الحاسوب تدعم تسريع المكونات لفك ترميز الفيديو و بالطبع اذا كان التسريع نشط (هذا لكل حاسوب تقريبا) . الاكثر من هذا فيجب الاخذ بعين الاعتبار الدقة الفعلية للقناة فائقة الجودة(في الواقع فان قنوات

معلومات مثل دليل البرنامج الالكتروني يتم عرضها على الشاشة بشكل كامل اعلى البرنامج الحالي . بهذه الطريقة تحتل بطاقة تيفي بالترابط مع الحاسوب مكان التلفاز و جهاز الاستقبال .

ان تيفي S480 جيدة جدا من ناحية المكونات ، و لكن يوجد شيء واحد واضح ، اذا كان كلا الموافين نشط و خاصة في وضع القنوات فائقة الجودة فان الحمل على المعالج يزداد . لذلك في اختياراتنا استخدمنا حاسوب انتل كورتودو core2duo بذاكرة 2 جيجا وبطاقة رسومات ATI حديثة نسبيا من أجل قياس حمل المعالج . القيم التي قمنا بقياسها أقل مما توقعنا رؤيته

راي احد الخبراء

موافين مستقلين .
متطلبات مكونات حاسوب محدودة .
حرارة خارجة منخفضة .
متوافق مع برامج بديلة .



Thomas Haring
TELE-satellite
Test Center
Austria

لا توجد وحدة واجهة مشتركة .

TECHNICAL DATA

Manufacturer	TeVii Technology Ltd. Taiwan
Email sales	patricia@tevii.com
Email support	peterson@tevii.com
Model	S480
Function	PCI-e card for TV & Radio reception on the PC in SDTV and HDTV with two separate Tuners
Channel memory	unlimied
Satellites	178 preprogrammed - added by user: unlimited
Symbol rates	2-45 Ms/s
SCPC compatible	yes (tested >2 Ms/s)
USALS	yes
DiSEqC	1.0, 1.1, 1.2, 1.3
EPG	yes
C/KU band compatible	yes
HDTV support	yes (up to 1080i in MPEG-4 AVC/ H.264)
Input frequency	950-2150 MHz
Input terminal	F-type 75 Ohm
Modulations	DVB-S: QPSK, BPSK DVB-S2: QPSK, 8PSK

الجدول
برامج بديلة لتيفي S480

www.progdvb.com
www.dvbviewer.com
www.dvbdream.org
www.watchtvprou-experience.de

ProgDVB
DVBViewer
DVBDream
WatchTVPro

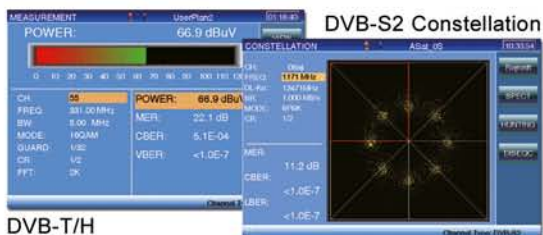
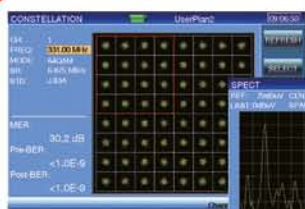
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- SNR and BER
- Spectrum function
- Signal level and quality display together
- 128×64 dot matrix LCD with back-lighted
- Large lithium battery capacity, over 4 hours working time
- Software upgrade and parameter set via USB interface



S7000 ✓ TV Analyzer

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- Digital /Analog and Satellite TV analysis with 5~2150MHz bandwidth
- Fast spectrum analysis
- DSP Technology to support different Video decoding: MPEG-2, MPEG-4 and H.264
- Support SD&HD
- CAM module (Conditional Access) for encrypted channels
- TS-ASI input and output
- IPTV analysis option
- HDMI, LAN and USB interface
- Easy to use
- High resolution 7" TFT LCD
- L240×H170×D100, light weight.
- working time >4 hours (battery)



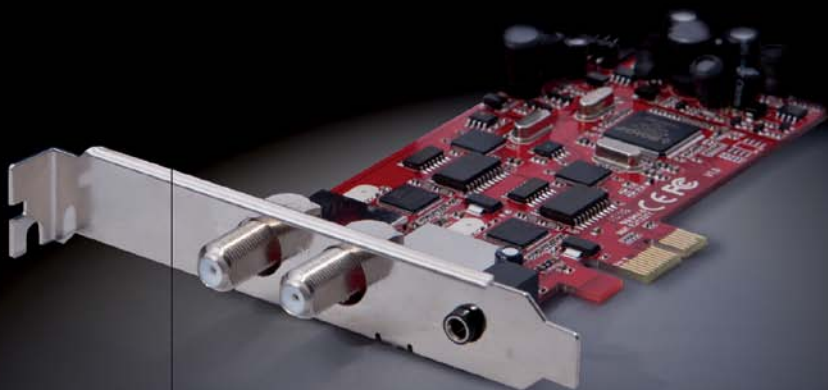
TEST REPORT
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Twin Tuner PC Card |

TeVii S480 with 2 x DVB-S2



- Two Separate HDTV Tuners
- Includes perfectly matching software for TV and Data
- Fits nicely with PC hardware
- Upgrades PC to a fully functional HDTV PVR
- Plug & Play for Windows and drivers for Linux



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The S480 is a PCI Express (PCI-e) expansion card for a PC. The use of the PCI-e slot is absolutely necessary because the data transfer rate of a standard PCI slot might not be good enough for the reception of high resolution TV content.

Contrary to the TeVii S470 model that we tested in the 08-09/2009 issue of TELE-satellite, the S480 operates with two fully functional DVB-S/S2 tuners that can both be used at the same time independently from each other. You could actually look at it as if there were two separate DVB-S/S2 cards installed in the PC except that the entire hardware for both cards is on one circuit board so that only one slot is occupied in the PC.

In addition to the card

itself, the package also comes with an installation guide in English and German, a CD with drivers and software as well as a remote control and an infrared receiver. A detailed user manual is available on the CD in PDF format. The installation guide unfortunately doesn't go into any details on the S480. On the other hand, we liked the remote control; it helps to convert the PC into a fully functional DVB-S/S2 TV receiver. It sits comfortably in your hand, is properly labeled and comes with buttons that are easy to reach and easy on your fingers.

Installing the TeVii S480 card was handled without any problems. The card already has a slot cover installed on it although a smaller version is provided

for use with narrower PC housings and can easily be swapped out if necessary.

Since the TeVii card with its two tuners must also supply power for two LNBs and the integrated chips on the card will be putting a demand on energy needs, it would make sense to connect a matching output from the PC power supply to the TeVii card. This will guarantee that the card will have enough power available to it to do its job; the PCI-e bus alone is not able to handle these power demands. After installing the card, the two tuner inputs are quickly connected to the satellite system and the infrared receiver is plugged into the appropriate jack on the card. The S480 is ready to go.

Although the TeVii S480



card is best suited for HDTV reception, it doesn't place any special demands on the PC itself. The requirements for interference-free HDTV reception according to the manufacturer: a 2.4 GHz CPU, a graphics card with 128MB RAM as well as 1GB of memory. If you'll only be watching SDTV, you can use a PC with a 2 GHz PC and only 256MB RAM. In either case though, the graphics card that is used must support DirectX version 9.0C or higher. Of course, when it comes to the hardware you end up using, the newer and

more capable the hardware, the better.

The manufacturer included 32-bit and 64-bit drivers for all MS Windows versions (Windows XP, Vista and Windows 7) on the CD; there are also drivers for Linux. The CD also contains the MyTeVii software which is the control central for all of the cards functions as well as TeVii-Data software for reception of Internet via Satellite. The entire package is rounded off with a demo version of the well-known ProgDVB.

The installation of the drivers and the MyTeVii software occurred problem-free and ran fully automatically. That's what Plug&Play is all about; you don't even have to restart the PC after installing the drivers. The installation assistant presents two separate MyTeVii icons on the PC's desktop with one labeled LNB1 and the other LNB2. Nope, it's not a software bug. Instead, TeVii has made it possible to open two MyTeVii windows at the same time and fully independent of each other.

And of course it stands to reason that numerous settings and reception parameters can be set up for each tuner input separate and independent of each other including all the necessary settings steps for LNB1 and LNB2.

After starting the MyTeVii software for the first time, an empty channel list is displayed. Of course, this list should be filled as quickly as possible, wouldn't you say? The manufacturer included a preprogrammed list of 178 European, Asian and American satellites along with corresponding transponder data. It was nice to see that the data was actually quite up to date so that the most recently started HDTV channels could easily be found. There were also plenty of preprogrammed LOF frequencies available to cover the C-band and Ku-band but they could also be individually customized (including the switching point for the upper and lower frequency bands) to your specific requirements.

The MyTeVii software also plays very nicely with all of the common DiSEqC protocols thus letting you use the card with just a single LNB, with a DiSEqC 1.0 system with up to four LNBs as well as a more complicated DiSEqC1.1 system with up to 16 LNBs. If you're using a DiSEqC motor, the positions stored in memory can be individually accessed and set up with appropriate satellite entries. Our overall positive impression was strengthened by the ability to also use this card with SCR ap-

plications. The ability to edit satellite and transponder data directly in the Channel Scan menu is especially practical. You can add new transponders or satellites or modify existing data. The channel scan functions are also logical, well thought out and easy to use. For example, you can scan a single transponder from a satellite, multiple transponders or all of the transponder entries. The FEC is recognized by both tuners automatically.

We were very impressed with the two TeVii tuners; not only do they require very little energy and thereby radiate very little heat, but they also operate on the so-called LNB Off feature. This feature turns off power to the LNB as long as the tuner on the card is not accessed.

In the end the two tuners handled all of the tasks effortlessly including SCPC reception and automatic channel scans. In our SCPC test the card was able to process a 2.0 Ms/sec transponder on TURKSAT at 42° east without any problems.

The TeVii S480 card also showed its capabilities during an automatic channel scan of the HOTBIRD satellites at 13° east; this job was completed in just a little over six minutes whereby, thanks to the up-to-date transponders, nearly every

receivable channel was identified.

To complete the tuner test, we naturally had to check how well the tuners performed with weaker signals. For this we turned our antenna to EXPRESS AM1 at 40° east where not only are the individual transponders on this satellite already difficult to receive with a 120cm dish but this satellite finds itself in an inclined orbit making stable reception over longer time periods even more difficult. The TeVii S480 mastered this task and provided us with good reception.

Since the S480 card is DVB-S/S2 compatible, it can demodulate QPSK and BPSK in DVB-S and QPSK and 8PSK in DVB-S2.

Once the channel list is filled with entries it would not be a bad idea to have a quick look again at the vast array of basic settings. Every imaginable parameter can be set to the user's requirements and this is where the S480 as a PC expansion card stands out compared to a set top box: if older hardware is being used or if the processor isn't the fastest in the world, the demand on the processor or graphics card can be turned back – for example, the Time Shift function can be turned off.

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محلل مع ذاكرة ضخمة



ان توفر محلات الإشارة ذات الاسعار المعقولة قد ازداد بشكل كبير خلال السنوات القليلة الماضية . هناك ميزة هامة جدا للمستخدم و لكن حتى الان لم يتم الاهتمام بها من قبل شركات التصنيع : الا و هي قاعدة بيانات شاملة و حديثة لبيانات الأقمار الصناعية و الترددات ، و ببساطة بسبب القائمة اللا منتهية للتلفزيون ، الراديو و خدمات الانترنت المتوفرة عبر القمر الصناعي ، الهوائي او الكابل ، فان الرغبة في الحصول على كل هذه المعلومات هي مفهومة تماما . من الواضح انه غير كافى بعد الان لاي فني تركيب في اوروبا ان يركز فقط على تلك الأقمار الشائعة جدا مثل استرا2.19 شرق و هوتبيرد13 شرق . يمكن قول نفس الشيء عن فني تركيب في تايلاند ، لن يستطيع الاستمرار و البقاء اذا اقتصر خبرته على قمر تياكوم بيرد على 78.5 شرق

ان محلل الإشارة الذي نقدمه هنا ، سات كاتشر ديجي برو ST المركب ، ليس موجها للمستخدمين الخاصين الطموحين و لكن ايضا و خصوصا للمهنيين . اذا كنت تريد ان يكون لديك فرصة للبقاء في سوق اليوم .

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عليك ان تكون قادرا على التعامل بسرعة و بدقة مع رغبات العملاء. يشتمل ذلك على القدرة على ضبط اي قمر صناعي يمكن استقباليه بكل كفاءة ممكنة في موقع التثبيت و لكي يكون فني التثبيت قادرا على القيام بهذا فانه يحتاج ان يكون مجهزا ببعض الادوات الاساسية و هذه هي النقطة الحاسمة : ما هي فائدة افضل و اعلى محلل إشارة بالنسبة لفني التركيب اذا اراد منه الزبون اضافة قمر صناعي اخر لنظام استقباليه و لكن محلل الإشارة لا يحتوي على بيانات الترددات الحالية مخزنة في ذاكرته مما يمنع فني التركيب من ضبط الهوائي ؟

اظهرت لنا شركة سات كاتشر البريطانية اكثر من مرة في الماضي ان منتجاتها حديثة تكنولوجيا و مليئة بالافكار المبتكرة . و لم يتغير الامر مع جهاز ديجي برو ST كومبو .

عند مقارنته بنماذج سابقة ، لم يتغير الكثير من الخارج . بابعد 240X105X75 مم و بوزن 1.4 كجم بما في ذلك البطارية والغطاء الواقي ، فان ديجي برو ST كومبو يجلس مرتاحا في يدك . ان الوزن موزع بالتساوي حيث انه لا يميل الى جانب واحد . ان شاشة العرض بقياس 3.5 بوصة وبدقة 64*128 سهلة جدا للقراءة . كبيرة بدرجة كافية لعرض جميع المعلومات اللازمة بشكل مثالي.

ان البطارية المدمجة بقدرة 4000 MAH القابلة للشحن من صناعة شركة فاترا (VATRA) ، تزود جهاز ديجي برو ST كومبو بأربع ساعات من الطاقة . دورة الشحن الكاملة للبطارية تستغرق نفس الوقت . اضافت الشركة المصنعة مجموعة كاملة من الاضافات تشتمل على مزود طاقة بقدرة 9.6 فولت فضلا عن محطة شحن للسيارة وبذلك يتمكن فني التركيب من شحن المحلل وهو في الطريق الى الزبون التالي . يتم ايضا تقديم سترة واقية من الرطوبة للمساعدة في حماية المحلل من الأوساخ وعناصر أخرى . حقيبة الحمل المرفقة تتيح لك العمل بكلتا اليدين .

واقي من الشمس يجعل القراءة من شاشة الكريستال السائل سهلة في ضوء الشمس الساطع . للاجمال فان ديجي برو ST كومبو يأتي مزودا بكابل ناقل تسلسلي عام للتوصيل بالحاسوب وكابل صوت وفيديو A/V لتوصيل مدخل ومخرج صوت وفيديو . دليل المستخدم ليس مطبوعا ، فانه بدلا من ذلك يأتي بنسق PDF ويمكن العثور عليه على القرص المضغوط المرفق . يمكن تعبئة ديجي برو ST كومبو مع جميع ملحقاته في حقيبة ألومنيوم قوية للنقل السهل . وهذه الحقيبة تعمل أيضا على حماية المحتويات في حال سقوط الحقيبة.

لا يمكنك الا أن تلاحظ شاشة الكريستال السائل التي بحجم 3.5 بوصة السهلة القراءة على الواجهة الأمامية . توجد أسفل شاشة العرض أربعة أزرار وظائف وتوجد تسمية هذه الأزرار بالقرب من أسفل الشاشة . الى اليمين توجد أربعة أزرار على شكل صليب وتستخدم للعمل داخل القوائم .

يوجد تحت هذا لوحة مفاتيح رقمية مكونة من 12 زر اضافة لخمس أزرار وظائف الى اليمين . جميع الأرقام مقرونة التسمية مما يسهل تشغيل ديجي برو ST كومبو . أعلى المحلل وضعت مداخل الموالم لاستقبال القمر الصناعي و الهوائي الأرضي فضلا عن وجود مدخل لتوصيل موالم اضافي للاختبار . ان مقبس مدخل/مخرج لاشارات الفيديو والصوت يمكن العثور عليه هنا . ان ديجي برو سات كاتشر الذي تم ارساله لنا للاختبار مخصص لاشارة الأقمار الصناعية و الأرضية . وهناك نموذج متوفر لاشارة القمر الصناعي والكوابل . يمكن العثور على واجهة الناقل التسلسلي العام USB و مدخل الطاقة أسفل المحلل.

تم الأخذ بعين الاعتبار الجودة في صناعة أحدث منتج من سات كاتشر و لنكن صادقين ، اننا لم نكن نتوقع شيء أقل من هذا من هذه الشركة . حتى أن البطارية القابلة للشحن والتي كانت في النماذج السابقة مثبتة بشكل دائم و لا يمكن ازلتها من قبل المستخدم ،توجد الآن في الجانب الخاص بالبطارية ويمكن استبدالها

من قبل المستخدم . جميع الوحدات التي تم شحنها بعد 6 ابريل تحتوي على هذه الميزة.

جعلت سات كاتشر هذه الوحدة أكثر تنوعا لفني التركيب المشغولين والذين لا يركزون فقط على تركيبات التلفزيون و لكن ايضا على تركيبات أجهزة فيديو المراقبة الأمنية : ان أحدث جهاز من سات كاتشر لا يلتقط فقط بث الفيديو الرقمي عبر الأقمار الصناعية DVB-S و الأرضي DVB-T و لكنه يأتي بمدخل فيديو للاستخدام مع كاميرات الفيديو القياسية . حتى أن سات كاتشر أضافت مخرج 12 فولت نشط من مدخل IF ، بذلك يمكن لفني التركيب تغذية الكاميرا بالطاقة أثناء التركيب . لتحقيق هذه الغاية فان أحدث الوحدات يتم شحنها تحتوي على كابل تحويل من F الى طاقة (جهاز الاختبار خاصتنا لم يكن مجهزا بهذه الخاصية) .

كما ذكر من قبل ، فانه من المهم للغاية لأي فني تركيب مهني أن تكون لديه بيانات ترددات أقمار صناعية محدثة في متناول يده ، وحتى أن المستخدم النهائي سيكون سعيدا بتوفر هذه البيانات على محلل الإشارة الخاص به . قبل أن نتحقق من تفاصيل قياس الإشارة التقنية لديجي برو ST كومبو ، نود أن نقدم اثنين من المزايا الهامة لهذا المحلل . الأولى ستكون 1 جيجا بايت من ذاكرة التخزين المؤقت متبوعة

في النطاق الترددي 870-46 ميجا هيرتز بعدة طرق : يمكن اختيار تردد واحد بحيث يتم عرض معلماته . تحتوي هذه المعلمات على مستوى الإشارة ب dBµV ، تردد ناقل الفيديو ، تردد ناقل الصوت و كذلك الناقل للضجيج C/N بالديسيبل . بالنسبة للإشارات الرقمية يتم عرض (نسبة تحويل الخطأ ، معدل بت خطأ القناة و معدل بت الخطأ فيتربي) جميع هذه ستظهر ايضا .

اضافة لكل القيم الرقمية هذه يمكن للمحلل ان يعرض رسوما مستويات إشارة الفيديو و الصوت في عمود منفصل . يمكن استخدام هذا الخيار للضبط الدقيق للهوائي الذي سبق ضبطه الى حيث يجب ان يكون . لهذا الغرض يوجد عرض محلل طيفي . يمكن ان يتم استخدامه لمشاهدة الإشارة القادمة بأعراض

الرئيسية للمحلل مدخل يسمح لك بنقل البيانات الخاصة (الأقمار الصناعية ، الترددات والمزود) من الذاكرة الرئيسية الى ذاكرة العمل وبذلك تكون متاحة للاستخدام من قبل محلل الإشارة .

في الوقت الذي تحتوي فيه الذاكرة الرئيسية على بيانات الترددات و الأقمار الصناعية عالميا بغض النظر عن ما اذا كان المستخدم النهائي يحتاجها أو لا ، فان ذاكرة العمل تحتوي فقط على المدخلات التي يحتاجها المستخدم فعلا . وهذا لا يجعل فقط سهولة في الوصول الى البيانات المطلوبة ولكن يسمح بتحديث مجمل قاعدة البيانات في أي وقت دون القلق من الكتابة فوق أي مدخلات فردية . من الممكن أيضا نقل المدخلات في ذاكرة العمل الى الذاكرة الرئيسية وبذلك يمكن نقلها للحاسوب

بوظيفة عرض ومعالجة بيانات الشبكة (جدول معلومات اشبكة) . ان ذاكرة التخزين المؤقتة 1 جيجا بايت هي النتيجة المباشرة لوضع أفكار سات كاتشر معا لتحديد أسهل طريقة لوضع بيانات الأقمار الصناعية حول العالم والترددات في محلل الإشارة هذا . لذا كان من الضروري دمج نوعين مختلفين من الذاكرة : ذاكرة عمل و ذاكرة رئيسية . الذاكرة الرئيسية هي 1 جيجا بايت ويمكن تحميلها بالبيانات مباشرة من الحاسوب . توجد بها مساحة تكفي 300.000 مدخل لقمر صناعي وتردد . بمجرد انشاء اتصال ناقل تسلسلي عام USB بين المحلل والحاسوب ، يتم التعرف على المحلل من قبل ميكروسوفت ويندوز على أنه جهاز تخزين خارجي قابل للإزالة ، بالتالي فهو لا يحتاج الى أي برنامج تشغيل أو برنامج خاص . بطبيعة الحال سيكون المستخدم بحاجة الى ملف تحديث بنسق ASD والذي يتم توفيره اما مباشرة من الشركة المصنعة أو من موزع معتمد . لتحديث بيانات الترددات و الأقمار الصناعية ، عليك ببساطة تحميل أحدث ملف ASD من الانترنت ونسخه الى جهاز التخزين الخارجي القابل للإزالة.

اكتشف مهندسو سات كاتشر بسرعة انه سيكون من الخطأ استبدال مجمل قاعدة البيانات التي في المحلل لأنه بدون شك ان المستخدمين قد حفظو بياناتهم الخاصة في المحلل ، هذه البيانات سيتم فقدانها اذا تم استبدال قاعدة البيانات بأكملها . لمنع هذا جاء المهندسون بحل بسيط و مبدع : يوجد في القائمة



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SORx 1310607 NF and SORx 1310607/1 NF

- 4-way / 1-way receiver in a compact housing
- Remote powerable through one coaxial output

نضبط بعض المعلومات الأساسية . سيكون بالتأكيد من ضمنها الموقع الجغرافي الحالي .

بهذه المعلومات يمكن لديجي برو ST كومبو ان يقوم اليا بحساب السمات و الارتفاع لكل قمر صناعي مرغوب و كذلك زاوية القطبية و موقع القمر الصناعي لدائسك 1.3 يوسالز . لا يتم عرض هذه النتائج في ارقام فقط و لكن ايضا رسوميا . عمل هذا في تجاربنا بشكل جيد و يمكن استخدامه للحصول فكرة جيدة عن موقع القمر الصناعي . من هناك يمكنك الوصول للمحلل الطيفي للمزيد من ضبط الهوائي .

عرض المحلل الطيفي سريع جدا في التجارب مع تغيرات الإشارة . هذا يسهل ضبط الهوائي و تحديد ذروة الإشارة . اذا كنت ترغب في القاء

جميع ملحقاتها ، خطة القناة المتوفرة يمكن عرضها ، تنشيطها و تحريرها عبر مدخل في القائمة الرئيسية . الاعدادات الاساسي اشتمل على قائمة مضبوطة مسبقا لبريطانيا العظمى و مجموعة من الترددات المستخدمة في اوروبا اذا كان سيتم استخدام المحلل في اجزاء اخرى من العالم ، فان خاصية ASD تسمح لك بدون جهد بتحميل القوائم الحالية من موقع الشركة المصنعة او من الموزع و التي يمكن لاحقا نقلها من الحاسوب للمحلل .

ان وضع القمر الصناعي للمحلل هو نفس التركيبة في الوضع الارضي . تساعد هذه العملية الشفافة في جعل عمل المستخدم اسهل و لذا تستحق ثناء كبير . لتكون قادرا على استخدام خصائص المحلل الكبيرة ، يتطلب القاء نظرة في قائمة الاعدادات و ان

بفضل الاعدادات الممكنة المختلفة ، يمكن للمستخدم ضبط دي جي برو ST كومبو حسب احتياجاته الخاصة . بذلك فهو يستطيع ، على سبيل المثال ، عرض قياس الإشارة في dBμV, dBmV or dBm و كذلك وضع مستوى ادنى لمعالجة الإشارة او لبرمجة المحلل ليغلق من تلقاء نفسه بعد فترة معينة من الزمن .

اعجبتنا فكرة ان سات كاتشر اخذ ميزة ASD الجديدة - قاعدة بيانات مسبقة لمدخلات الترددات و الاقمار الصناعية - و ايضا طبقها للوضع الارضي . بطبيعة الحال ، يدور كل شيء في هذا الوضع حول الترددات في النطاق UHF,VHF و ليس مع الاقمار الصناعية ونواقلها المتوافقة . ولكن بدون شك ، يمكن ان يكون عمليا امكانية الوصول الى القائمة المبرمجة مسبقا لكل الترددات و

مختلفة فتشمل على ملء الشاشة و 8,16,32,50,100,200,500 ميغاهيرتز . عندما اختبرنا هذه الميزة على هوائي UHF ، استجاب دي جي برو ST كومبو بسرعة للتغيرات في وضع الهوائي وعرض هذا رسوميا . بمساعدة عرض المحلل الطيفي ، سيكون من السهل جدا التعرف على موقع البداية للهوائي و بعد ذلك يمكن ضبطه بصورة دقيقة .

اذا اردت القاء نظرة فاحصة على ذروة الإشارة ، عليك ببساطة الضغط على زر الوظيفة اختبار للطلب من دي جي برو ST كومبو البدء في البحث عن ناقل بث فيديو رقمي ارضي DVB-T او إشارة تناظرية . اذا قمت بادخال التردد مباشرة او اخترت ادخال رقم القناة ، فان الضغط على زرانتير يجلب عرض مفصل لمعلومات التردد فمع اشارات بث الفيديو الرقمي الارضي DVB-T يمكنك قراءة الشبكة و ان نعرض اي من القنوات التي تم العثور عليها على شاشة المحلل . و حيث ان المحلل لا يأتي بفتحات واجهة مشتركة او قارئ بطاقة فان هذه الميزة تعمل مع الاشارات المفتوحة فقط .

انماط البحث المختلفة مجملية ببحث آلي عن القنوات و الذي سيقوم بالبحث في جميع الترددات عن اشارات قابلة للاستخدام و يعرض النتائج بيانيا . هذا اساسا توسع لوضع المحلل الطيفي . يمكن لمحلل إشارة سات كاتشر اضافة لمعالجة اشارات التلفزيون ان يعمل مع راديو FM و اشارات الراديو الرقمي DAB . اختيارات القائمة المتوافقة متوفرة لهذه الاوضاع .





Professional Producer of Digital TV Tuners for PC!

USB DVB-S2 CI BOX (TBS 5980)

1. DVB-S2/S Transponders Receiving.
2. CI supported.
3. Windows XP/Vista/7 Compatible;
Windows 7 Media Center, DVBDream,
DVBViewer, DVBlogic, ProgDVB,
AltDVB, Skynet, TSreader supported.
4. Linux driver for all kernels; MythTV,
VDR, XBMC supported.



PCIe DVB-S2 TV Tuner Card (TBS 6921)

1. DVB-S2/S Transponders Receiving.
2. Transponders blind scan.
3. Low profile size.



PCIe DVB-S2 TV Tuner Card (TBS 6925)

1. CCM, VCM, ACM and Multi Input Stream mode supported.
2. 8PSK/QPSK/16APSK/32APSK mode.



PCIe DVB-S2 Dual Tuner Card (TBS 6981)

1. Dual DVB-S2/S Receiving.
2. Windows 7 Media Center, Linux driver supported.
3. Low profile size.



PCIe DVB-S2 Dual Tuner Dual CI Card (TBS 6992)

1. Dual DVB-S2/S Tuner.
2. Dual CI supported.
3. Transponders blind scan.



USB DVB-C Stick

1. DVB-C Frequencies Receiving.
2. 16, 32, 64, 128 and 256 QAM supported.
3. USB 2.0 interface.



USB DVB-C CI BOX

1. DVB-C Frequencies Receiving.
2. 16, 32, 64, 128 and 256 QAM supported.
3. CI supported.
4. USB 2.0 interface.



PCIe DVB-T2 TV Tuner Card (TBS6220)

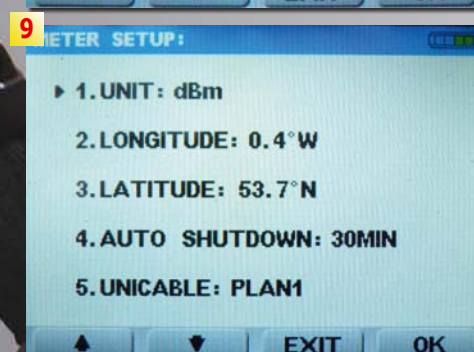
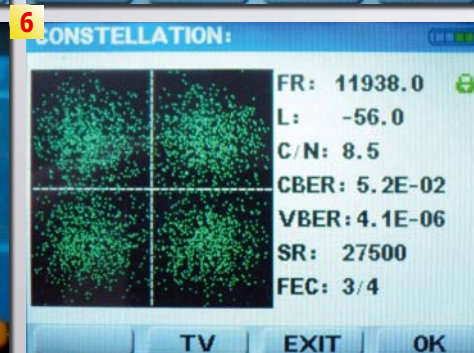
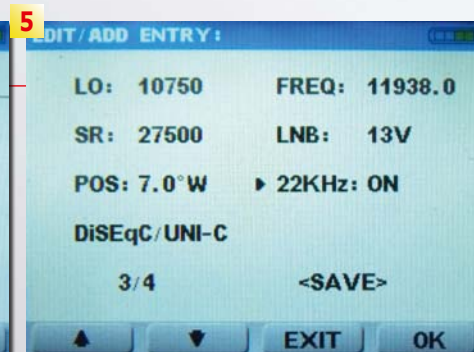
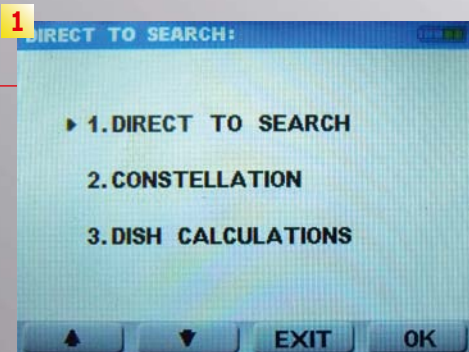
1. Windows 7 Media Center supported.
2. Freeview HD supported.
3. Low profile size.



PCIe DVB-T2 Dual Tuner Card (TBS6280)

1. Windows 7 Media Center supported.
2. Freeview HD supported.
3. low profile size.





SATCATCHER

11 **MRK: -62.0dBm**

SP100 SAVE EXIT OK

17 **CAN**

STARTMEASURE CH 31...

MIN: -77 VIDEO: 471.25MHz -96.7dBm
CH 21 AUDIO: 479.25MHz -96.6dBm

STOP TEST SPEC EXIT

23 **ASTER MEMORY**

SELECT FUNCTION AND PRESS OK

- 1.SET POWER ON DEFAULTS
- 2.LOAD PLAN INTO WORKING MEMORY
- 3.EXPORT DATA LOGS OR SAT PLAN
- 4.SET VOLUME DEFAULTS
- 5.VIEW UNICABLE PLANS

EXIT OK

12 **SELECT TEST TYPE**

SELECT AND ENTER OR KEY NUMBER

- 1.TERRESTRIAL DVB-T
- 2.SATELLITE DVB-S
- 3.DISEQC/ VOLTAGE/ CABLE
- 4.VIDEO/ AUDIO/ CAMERA

MENU ENTER

18 **FM TEST**

FREQ: 99.90MHz

-77.8

LEVEL

PLAY VOL EXIT

24 **END PLAN**

SELECT TYPE OF PLAN TO SEND TO WORKING MEMORY

- 1.TERRESTRIAL PLANS
- 2.SATELLITE PLAN
- 3.ACTIVE SATELLITE DATA

PRESS OK TO TRANSFER PLAN

EXIT OK

13

MAX: -27 SCALE: 10dB/DIV

MIN: -87 FREQ: 278.56MHz -90.4dBm

CH: BW: FULL VIEWING LEVEL

CH BW TEST EXIT

19 **SELECT LOGGING OPTION**

- 1.MAKE NEW DATA LOG
- 2.VIEW DATA LOGS
- 3.DELETE LOGS

EXIT OK

14

MAX: -27 SCALE: 10dB/DIV

TEST...

STARTING
SEARCHING CARRIER
TESTING FOR DVB-T

MIN: F1: F2: CANCEL

CH: BW: FULL VIEWING LEVEL

CH BW TEST EXIT

20 **PLAN**

1. EURO
2. UK UHF
3. NULL...
4. NULL...
5. NULL...

EXIT OK

15 **DIGITAL DIGI**

57 %

CH: 24

TYPE: QAM16

FREQ: 498.00MHz

-38.4

MER: 30.8 CN: >38.5

CBER: <1.0E-5

VBER: <1.0E-7

LEVEL

COFDM TV EXIT

21 **ACTIVE SATELLITE DATA:**

ENTER SATELLITE POSITION TO VIEW

ASD. USE +/- KEY TO CHANGE E/W

68.5E

NEXT PRESS F4 TO VIEW THE ACTIVE SATELLITE DATA LIST

EXIT OK

16 **SAT INFO:**

NO	NAME	TYPE
001	ORF1	V
002	ORF2 W	V
003	ATV	V
004	ORF2 N	V

EXIT TV

22 **ACTIVE SATELLITE DATA**

SCROLL UP/DOWN

INFO: 68.5E Intelsat 10

FREQ	POL	S/RATE	PACKAGE
4189.0	V	12210	NewDelhi
4189.0	V	12210	NewDelhi
12522.0	H	26657	MyTV
12522.0	H	26657	MyTV

SELECT FREQUENCY TO ADD TO PLAN

ADD EXIT

1 - في وضع القمر الصناعي من الممكن قياس الترددات الفردية ، عرض رسومها البيانية وحساب قيم السمات و الارتفاع لكل مدخل قمر صناعي موجود .

2 - فور اكتشاف تردد نشط يقوم ديجي برو ST كومبو مباشرة بعرض المعلومات ذات الصلة .

3 - قراءة معلومات الشبكة لتردد و معلومات عن القنوات المتاحة .

4 - عرض قناة تلفزيونية .

5 - تحرير مدخل تردد .

6 - جدول الرسم البياني .

7 - القائمة الرئيسية في وضع القمر الصناعي .

8 - جميع مدخلات القمر الصناعي المخزنة حاليا .

9 - اعدادات اساسية مختلفة .

10 - العرض الطيفي في وضع القمر الصناعي .

11 - العرض الطيفي بزيادة 100 MHz .

12 - يقدم ديجي برو ST كومبو من سات كاتشر اربع اوضاع تشغيلية .

13 - العرض الطيفي في الوضع الارضي .

14 - البحث عن تردد بث فيديو رقمي ارضي DVB-T نشط .

15 - عندما يتم اكتشاف اشارة ارضية DVB-T يقوم ديجي برو ST كومبو مباشرة بقياس جميع المعلومات ذات الصلة .

16 - قراءة بيانات الشبكة لتردد ارضي DVB-T .

17 - بحث الي عن القنوات عبر مجمل النطاق الترددي الارضي .

18 - راديو FM .

19 - بفضل ميزة السجل المريحة يمكن تخزين القياسات في الذاكرة الداخلية لديجي برو ST كومبو .

20 - خطط التردد الارضي .

21 - اضافة قمر صناعي جديد للذاكرة باستخدام قاعدة بيانات ASD .

22 - لا تحتوي قاعدة بيانات ASD على مدخلات الترددات فقط و لكن المعلومات المتوافقة عن المزود ايضا .

23 - عناصر القائمة لاستخدام مزايا ASD .

24 - عناصر القائمة لاستخدام مزايا ASD .

كومبو ببيانات ترددات و أقمار صناعية للأقمار الصناعية من 42 شرق وحتى 30 غرب . يمكن للمستخدم تحريرها أو توسيعها في شاشة عرض المحلل . ولكن ماذا ستفعل إذا أردت العمل مع قمر ABS1 على الموقع 75 درجة شرق . لا مشكلة ، هذا هو المكان الذي تظهر فيه قائمة ASD . يمكنك ببساطة الوصول الى مدير ASD في القائمة . سيقوم ديجي برو ST كومبو بؤالك عن أي قمر صناعي تريد تفعيله . لا توجد قائمة معروضة ، إذا كانت القائمة الكاملة للأقمار الصناعية حول العالم ، فستكون غير منظمة الى حد ما ، بدلا من ذلك عليك ببساطة ادخال الموقع الجغرافي للقمر الصناعي واختيار شرق أو غرب بالضغط على زر +/- .

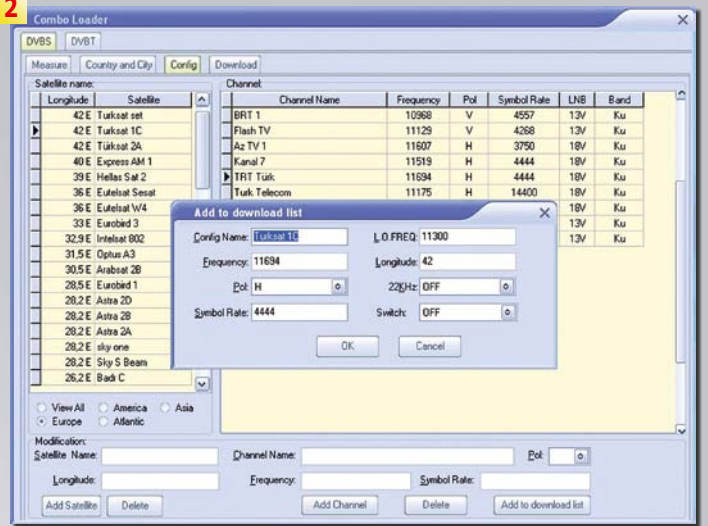
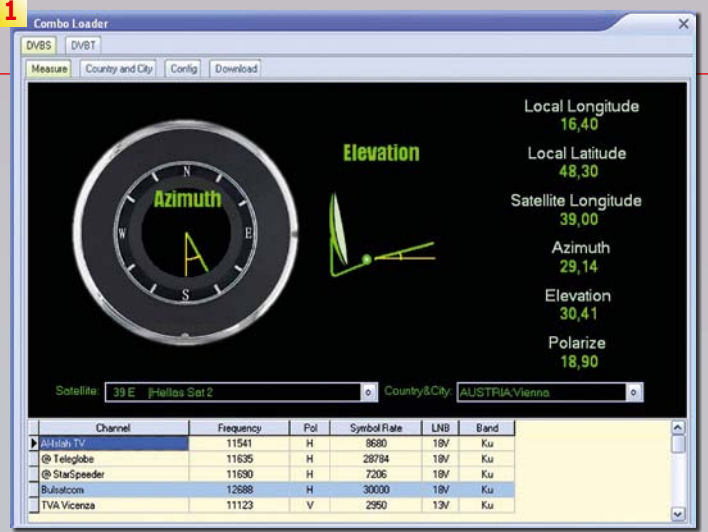
عندما تقوم بالضغط على زر موافق OK ، سيعرف المحلل مباشرة أنك مهتم بالموقع 75 درجة شرق و أنه يحتوي على القمر الصناعي ABS1 . سيقوم المحلل بعد ذلك بعرض ترددات النواقل الى جانب المزدون المتوافقون الذين يستخدمون هذه الترددات . الآن ما عليك هو البحث عن المدخل المطلوب في القائمة ونقله الى ذاكرة العمل باستخدام زر F3 ثم تحصل على عرض مفصل للبيانات و اذا دعت الضرورة اضافة اوامر دايسك او اختيار عتبة الاستقبال LOF للنطاق سي باند C كيو باند KU الخ ، و بعد ذلك نضغط على زر حفظ لحفظ الاعدادات في ذاكرة المحلل حيث يتم استدعاؤها بسهولة في وقت لاحق .

و حيث انه لدينا بالفعل القمر

و الناقل للضجيج C/N رقميا . عند هذه النقطة يمكن ضبط الهوائي بدقة للقمر الصناعي المطلوب و يرجع الفضل لرد الفعل السريع و الدقيق لتغيرات مستوى الاشارة . اذا تعرف المحلل على تردد صالح ، يمكن قراءة معلومات الشبكة الخاصة بالتردد و يمكن رؤية اشارة الراديو او التلفزيون على الشاشة . بالطبع فان هذا صحيح للاشارات الرقمية . باستخدام معلومات الشبكة ، يقوم المحلل بحساب موقع القمر الصناعي الحالي ، خلال اختبارنا عملت هذه الوظيفة بصورة حسنة وقبل كل شيء صحيحة . تحدث المشاكل عندما لا يستخدم المزدون معلومات شبكة دقيقة كما كان الحال في اختبارنا مع اشارة تغذية على قمر 7 درجات غرب والتي نتج عنها بيانات موقع قمر صناعي غير صحيحة .

توجد كل امكانيات قياس الاشارة هذه بجدول مخططات في وضعي بث الفيديو الرقمي عبر الأقمار الصناعية DVB-S و الأرضي DVB-T ، اذا تغيرت أية تفاصيل للتردد عليك فقط ببساطة الضغط على زر تحرير حيث يمكن تحرير عدة معلمات بسرعة . فاضافة الى الاعدادات التقليدية مثل عتبة الاستقبال LOF ، جهد الاستقطاب و اشارة 22khz ، يمكنك ايضا تخصيص دايسك 1.0 لما يصل لأربعة أقمار صناعية، 1.1 لما يصل الى ثمانية أقمار صناعية و كذلك دايسك 1.3 (يوسالز) لنظام متحرك ، حتى أن SCR للكابل المتحد مدعومة ويمكن تفعيلها في قائمة الاعدادات .

اجمالا يتم شحن ديجي برو ST



1 - حساب السمات و الارتفاع .
2 - قاعدة بيانات ASD على الحاسوب : يمكن اضافة تغيير بيانات التردد و القمر الصناعي .

بنظرة فاحصة على تردد معين في الطيف ، ستكون فكرة جيدة الحد من تواتر التردد للعرض لتلك المبرمجة مسبقا 50,100,200,500 ميجا هيرتز حيث تكون متاحة كامتداد تردد كامل يمكن استخدام ازرار المؤشر لاختيار اي تردد مرغوب في العرض - الضغط على زر انتر يكشف مستوى الاشارة الحقيقي و معدل الناقل للضجيج C/N . و كما هو الحال في الوضع الارضي ، مجموعة متنوعة من الاعدادات مثل امتداد تردد المحلل الطيفي او الجهد المطلوب في توصيل الموالم يمكن ان تتم معالجتها عن طريق لوحة المفاتيح الرقمية . يرجع الفضل للتسميات الدقيقة و سهلة القراءة ، انه لن يستغرق وقت طويل قبل ان تعتاد عدم العمل بدون هذه الميزة .

عندما يتم ضبط هوائي لموقعة باستخدام عرض المحلل الطيفي او حسابات الزاوية بحيث يجري استقبال هذا القمر الصناعي ، عملية الضغط على احدا الازرار عند قمة الاشارة هو كل ما هو مطلوب لوضع المحلل في وضع الترددات حيث يمكنك رؤية قوة الاشارة و جودتها رسوميا و يمكنك رؤية مستوى الاشارة ، CBER/VBER

AMIKO

SHD-8900 ALIEN

Full HD Digital Satellite Receiver & Media Player

Full HD
1080

ALIEN



Powered By
SPARK



and more to come...



HIGH DEFINITION SATELLITE RECEIVER

The Amiko SHD-8900 Alien - using the latest 450MHz SH4 core CPU - is a highly advanced Full-HD Satellite Receiver with Embedded Linux Operating system and Conax Embedded Card Reader, to ensure the compatibility with various extensions and applications. With High Speed USB2.0 Connection for Recording and Time-Shifting.

ONLINE SOFTWARE UPGRADES

Via Spark Online, you can always access the latest software upgrades and customized channel lists, made especially for Your area's local needs.

CONTINUOUS DEVELOPMENT GUARANTEE

Thanks to the Embedded Linux Operating System and Plugin Support the Amiko SHD-8900 Alien is a platform for continuous development of new functions such as Network Streaming and Internet Browser.

HIGH DEFINITION MEDIA PLAYER

Satellite Reception is hardly just one function of the Amiko SHD-8900 Alien... Switch to Media Player mode and watch or listen to the most various file formats. Copy your favourite music, movies or pictures to a USB hard-disk, and enjoy the quality of the Full-HD resolution and the following formats: AVI, MKV, WMV, MPG, TS, MP3, WMA, WAV, JPEG, PNG, GIF, BMP, TIFF...

ONLINE USER'S MANUAL

Spark online also includes an Online User's Manual and F.A.Q service, which make the installation and usage of the receiver even more easier.

+
plugin
support

- Conax Embedded Card Reader
- High Speed USB2.0 Connection
- Coaxial S/PDIF Output
- Ethernet Connection
- SCART & 3 RCA Output
- HDMI Output



Fulan ST7111
Excellently designed operating software with built-in customer service



Amiko SHD-8900 Alien
Innovative dual boot receiver with two different operating systems



WWW.AMIKOSTB.COM



حقيبة ديجي برو ST كومبو الألومنيوم من سات كاتشر تأتي بالعديد من المواد المفيدة : واقى من الشمس ، اسطوانة مدمجة بالبرمجيات ، دليل مستخدم ، وحدة شحن كابل توصيل ناقل تسلسلي عام ، شاحن سيارة ، كابل صوت و فيديو . A/V

السؤال الذي يسوى \$ 64.000 : كومبو من سات كاتشر بوضوح بعمله ! و خلال كل هذه التجارب كنا قادرين على تحديد ان الموالفات المدمجة في المحلل كانت في الواقع حساسة جدا ، فقد كانت قادرة على معالجة اشارات تبدأ بدرجة ناقل / ضجيج 3.5 C/N ديسيبيل .

برو ST كومبو ، بسرعة حددنا الزاوية المطلوبة للطبق و بدأنا بضبطه في ذلك الاتجاه . و بفضل وضع المحلل الطيفي تمكنا بسرعة من التعرف على عدة اشارات و بمساعدة وضع النواقل كان من السهل ضبط الطبق على النحو الامثل .

الصناعي 1 ABS على 75 درجة شرق مخزن في ذاكرة المحلل ، فبدا من المنطقي تحويل احد اطباقنا الى ذلك القمر الصناعي . عادة ما يكون من الصعب استقبال 1ABS هنا في اوروبا الغربية . بمساعدة حاسبة السمات و الارتفاع الموجودة في ديجي

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- Multimedia functions (MP3/JPG/DivX play support) • VFD display
- PVR ready through USB 2.0 interface • RJ-45 Ethernet interface (9900HDPVR model)
- Blind Scan/Fast Scan/Unicable support • Background recording&playback while recording function

الموجود على الجزء العلوي للمحلل شيء واحد ، و صورة تلفزيون مباشرة على الشاشة هي شيء آخر كلياً . يمكن لـديجي برو ST كومبو استخدام معلومات الشبكة الخاصة بناقل للتعرف على موقع القمر الصناعي ، و لكن يمكنه استخدامها لعرض مجموعة من قنوات الراديو و التلفزيون التي يتم استقبالها بحرية . و على الرغم من كون الشاشة بقطر 3.5 بوصة ، من السهل رؤية شاشة التلفزيون و بالتالي يمكن استخدامها للتأكد للزبون انهم يستقبلون هذه القنوات التي يريدونها . بفضل مخرج A/V الموجود في المحلل ، يمكن توصيله بسهولة الى تلفزيون و تحويله الى جهاز استقبال قمر صناعي او ارضي . يمكن استخدام مقبس صوت و فيديو A/V لعرض اشارة فيديو خارجية على شاشة عرض المحلل بحيث ، على سبيل المثال ، يمكن ضبط هوائي متحرك بمحرك 36 فولت . اشارة الفيديو من جهاز الاستقبال / المحرك ، يمكن بهذه الطريقة عرضها على شاشة عرض المحلل .

يمكن توصيل ديجي برو ST كومبو بحاسوب كجهاز تخزين خارجي دون الحاجة لبرنامج تشغيل خاصة . بفضل برنامج الحاسوب المدمج ، من الممكن اضافة لحساب الزوايا الضرورية لكل قمر صناعي مطلوب باستخدام جدول موسع لعدة مواقع على الحاسوب (بالطبع يمكن مباشرة ادخال احداثيات خطوط الطول والعرض) و لكن يمكن ايضا توسيع و تحرير بيانات ASD للوضع الارضي و القمر الصناعي . عندما يتم اتمام جميع التغييرات ، يمكن للمستخدم حفظ البيانات و بعد ذلك نقلها للمحلل عن طريق سحب و اسقاط البيانات للمحلل .

اعجبنا جدا بديجي برو ST كومبو من سات كاتشر خلال اختبارنا ، بفضل البناء المنطقي للبرنامج التشغيلي ، عملية التركيب كانت سهلة جدا . يأتي بمجموعة كبيرة من المزايا و تصدر هذه المزايا قاعدة بيانات ASD . مصنعيته عالية الجودة لا تترك شيء قد ترغب فيه .

قراءة النواقل بشكل صحيح هو شيء واحد ، و صورة تلفزيون مباشرة على الشاشة هي شيء آخر كلياً . يمكن لـديجي برو ST كومبو استخدام معلومات الشبكة الخاصة بناقل للتعرف على موقع القمر الصناعي ، و لكن يمكنه استخدامها لعرض مجموعة من قنوات الراديو و التلفزيون التي يتم استقبالها بحرية . و على الرغم من كون الشاشة بقطر 3.5 بوصة ، من السهل رؤية شاشة التلفزيون و بالتالي يمكن استخدامها للتأكد للزبون انهم يستقبلون هذه القنوات التي يريدونها . بفضل مخرج A/V الموجود في المحلل ، يمكن توصيله بسهولة الى تلفزيون و تحويله الى جهاز استقبال قمر صناعي او ارضي . يمكن استخدام مقبس صوت و فيديو A/V لعرض اشارة فيديو خارجية على شاشة عرض المحلل بحيث ، على سبيل المثال ، يمكن ضبط هوائي متحرك بمحرك 36 فولت . اشارة الفيديو من جهاز الاستقبال / المحرك ، يمكن بهذه الطريقة عرضها على شاشة عرض المحلل .

بفضل مدخل الاشارة الثاني



رأي أحد الخبراء

ذاكرة عمل 1 جيجا بايت
محلل طيفي سريع جدا
عرض لمعلومات الشبكة
حاسبة سمت و ارتفاع مدمجة
خفيف الوزن
بطارية قابلة للشحن ذات حياة طويلة



Thomas Haring
TELE-satellite
Test Center
Austria

لا يتم التعرف على ترددات الجيل الثاني لبث الفيديو الرقمي عبر الاقمار الصناعية DVB-2

TECHNICAL

DATA

Manufacturer	SatCatcher, Unit 7 Salvesen Way, Hull, East Yorkshire, UK HU3 4UQ, United Kingdom
Tel	+44 - 148 222 15 77
Email	sales@satcatcher.com
Website	www.satcatcher.com
Model	Digipro ST Combo
Function	Signal meter for digital signals in DVB-S, DVB-T and DAB. Analogue signals in FM radio.
Frequency range satellite	950-2150 MHz
Input Level	-65 dBm to -25 dBm
Frequency range terrestrial	46-870 MHz
Input Level	40 dBµV to 110 dBµV
Input resistance	75 Ohm
DiSEqC	Yes (1.0, 1.1, 1.3)
SCR Unicable	Yes
Power supply	Up to 4 hours without recharge
Display	120 x 64 3.5" LCD color display
Supplied items	Fold away sun visor, Software CD, User guide, Mains charging Unit, A/V cable, Car charger, USB Connection cable
Dimension	240 x 105 x 75mm
Weight	1.4kg
Charge Power	10.5V
Battery Voltage	8.4V
Working temperature	0 to 40°C
Storage temperature	-10 to 40°C

التعريفات

MER "نسبة تحويل الخطأ" هو حساب بت الخطأ للاشارات الرقمية . كلما ارتفعت القيمة كانت الاشارة الخالية من المشاكل يتم استقبالها . القيم الأكثر من 25 ديسيبيل مقبولة على الرغم من كون CBER/VBER جيدة و بالمقابل فان الناقل للضجيج C/N مهم ايضا .

VBER "معدل بت خطأ فيتربي" . هو عدد بتات الخطأ داخل اشارة رقمية بعد تصحيح الخطأ الحسابي في فيتربي . كلما ارتفع الرقم عن "E" كلما كانت الاشارة افضل .

CBER "معدل بت خطأ القناة" هو عدد بتات الخطأ في اشارة رقمية قبل تصحيح الخطأ الحسابي لفيتربي . كلما ارتفع الرقم عن "E" كلما كانت الاشارة افضل . يعطيك CBER فكرة عن مدى جودة او سوء الاشارة المتلقاة في وحدة خفض ضجيج .

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Digital Indoor TV Antenna



Digital Outdoor TV Antenna

TEST REPORT
该报告报道由技术专家撰写

Combination Signal Analyzer for DVB-S and DVB-T

SATCATCHER

SatCatcher Digipro ST Combo

- 1GB memory for up to 300,000 satellite and transponder entries
- Compatible with DVB-S, DVB-T, analog FM and DAB
- Precise analysis of DiSEqC commands
- An A/V jack and external monitor convert the signal analyzer into a receiver



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The availability of affordable signal analyzers has grown significantly over the past few years. There's a feature that is especially critical to users but up until now it hasn't really been watched closely by manufacturers: and that is an up-to-date and extensive database of satellite and transponder data. And simply because of the nearly endless list of TV, radio and Internet services available via satellite, antenna or cable, the desire to have all of this information is completely understandable. Clearly it's not enough anymore for a European antenna installer to focus only on those all too familiar ASTRA 19.2° east and HOTBIRD 13° east satellites. The same can be said for an installer in Thailand; he would have no chance to

survive if he limits his expertise to just the THAICOM bird at 78.5° east.

The signal analyzer that we're introducing here, the SatCatcher Digipro ST Combo, is not only aimed at ambitious private end users, but also and especially at professionals. And if you want to have any chance of survival in today's market, you have to be able to quickly and precisely react to your customer's wishes. Included in this is the need to be able to align to every possible receivable satellite as efficiently as possible at the installation site. In order for the installer to be able to do this he needs to be equipped with some basic tools and this is the crucial point: What use is the best and most expensive signal analyzer to an

installer if a customer wants him to add another satellite to his reception system but the signal analyzer doesn't have the current transponder data stored in its memory preventing the installer from aligning the antenna?

The British company SatCatcher has shown us more than once in the past that its products are up to date technologically and full of innovative ideas. With the Digipro ST Combo, that hasn't changed.

When compared to previous models, not much has changed on the outside. At 240 x 105 x 75mm and weighing just 1.4kg including battery and protective cover, the Digipro ST Combo sits quite comfortably in your hand. Its weight is evenly distributed so that it doesn't want to tip over to

one side. The 3.5 inch display with its 128x64 resolution is very easy to read and is large enough to optimally display all the necessary information.

The integrated 4000mAh rechargeable battery by VARTA provides the Digipro ST Combo with four hours of energy. A complete charging cycle takes just about as long. The manufacturer added an assortment of accessories that include the 9.6V power supply as well as a car charging station so that the installer can recharge the analyzer while



on the way to the next customer. A moisture resistant jacket is also provided to help protect the analyzer from dirt and the elements. The included carrying case lets you work with two free hands.

A flip-open sun shade also makes it easier to read the LCD display in bright sunshine. To top it all off, the Digipro ST Combo comes with a USB cable for connection to a PC and an A/V cable for the video input/output connection. The user manual is not in printed form; instead it's in PDF format and can be found on the included CD. The Digipro ST Combo along with all of its accessories can be packed in a sturdy aluminum case for easy transport. It would also serve to protect the contents should the case be dropped.

You can't help but notice the easy-to-read 3.5-inch LCD color display on the front panel. Four function buttons can be found underneath the display; the labeling for these buttons is displayed near the bottom of the screen. Just to the right are four more buttons in the shape of a cross that are used to work through the menus.

Underneath that is a numerical keypad made up of 12 buttons as well as an ad-

ditional five function buttons off to the right. All of the buttons are legibly labeled making it very easy to operate the Digipro ST Combo. On the top of the analyzer the manufacturer placed a combination tuner input for satellite and terrestrial reception as well as an additional tuner connection for testing. The input/output jack for audio/video signals can also be found there. The SatCatcher Digipro that was sent to us for testing is for satellite and terrestrial signals (ST). There is also an SC version available for satellite and cable signals. The USB interface and the power supply input can be found on the bottom of the analyzer.

This newest product from SatCatcher was manufactured with quality in mind and to be honest we didn't expect any less from this company. Even the rechargeable battery, which in previous versions was permanently installed in the unit and could not be removed by the end user, is now inside its own battery compartment and can be replaced by end user. All units shipped after 1st April 2011 include this feature.

SatCatcher have made the unit even more versatile for those busy installers, who are not only focussing

on tv installations, but also on video surveillance aka security installations: the newest SatCatcher not only captures DVB-S and DVB-T but also comes with an video input to use with standard cameras. SatCatcher has even added an active 12V output from the IF input port, so installers can also power a camera while making an install. To this end, the newest units shipped do now also include a 'F type to power jack' cables (Our test sample was not yet equipped with this feature).

As mentioned before, it is absolutely essential for the professional installer to have up-to-date satellite and transponder data always at his fingertips. Even an end-user would be thrilled to have this data readily available on his signal analyzer. Before we check out the technical signal measurement details of the Digipro ST Combo, we want to introduce you to two of the most important features of this analyzer. The first would be its 1GB of cache memory followed by a function to process and display NIT (network information table) data.

The 1GB cache memory is the direct result of SatCatcher putting their heads together to decide the easiest way to port all of the

worldwide available satellite and transponder data to the signal analyzer. For this it was necessary to incorporate two different types of memory: work memory and main memory. The main memory is 1GB in size and can be loaded with data directly from a PC. It has room for roughly 300,000 satellite and transponder entries. As soon as a USB connection is established between the analyzer and a PC, the analyzer is recognized by MS Windows as a removable external storage device and therefore doesn't need any drivers or special software. Naturally, the user would need an up-to-date file in ASD format which is provided either directly from the manufacturer or from an authorized distributor. To update the satellite and transponder data, you simply would need to download the latest ASD file from the Internet and copy it to the removable external storage device.

The SatCatcher engineers quickly recognized that it would be a big mistake to simply replace the entire database in the analyzer; undoubtedly there are quite a few end users that saved their own data in the analyzer - this data would be lost if the entire database were replaced.

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Available online starting from **3 June 2011**

Build your DVB-C cable headend converting DVB-S to DVB-C with Topreal

Jacek Pawlowski

DVB-C is a worldwide standard that describes digital cable TV. In most cases, the DVB-C signal that arrives at the wall outlet of cable subscriber's homes is of satellite or terrestrial origin - that is DVB-S or DVB-T respectively. Let's focus on DVB-S. Is the signal what is transmitted as DVB-C on the cable the same signal that is received at the headend's satellite dish?

Well, if we take into account the digital content: video bit stream, audio bit stream and data stream - the signals are almost identical. There are small changes in the data transmitted along with video and audio (for example there are no longer transponder frequencies but rather carrier frequencies) but the real difference lies in the frequency and modulation used. To convert DVB-S to DVB-C one needs a professional DVB-S receiver and a DVB-C QAM modulator. If you want to manipulate the content of the multiplex, you additionally need a re-multiplexer.

One of the manufacturers of such professional units is Topreal from China; they pro-

vided us with the basics for a cable headend: a satellite receiver, a modulator and a re-multiplexer. All three Topreal units are designed to fit standard 19" racks or cabinets. As you can see on the pictures, these units are not fitted with neither RCA nor SCART connectors. Such professional devices use either F or BNC connectors because these have well defined 50 Ohm impedance matching the characteristic impedance of coax cables.

TP-1010 DVB-S Receiver

The satellite receiver was a little surprise for us at the beginning. We expected that the keypad will be rather lim-

ited - this is typical for professional units which are set once and left unattended for long periods of time. But even this was not present, rather just a mere 4-digit 7 segment LED display, not even alphanumeric one. How is the user supposed to set the unit?

A look at the rear panel revealed the way. Except for the LNB input and looped output (RF-IN, RF-OUT), doubled transport stream outputs (ASI_OUT), there were video and audio outputs resembling the ones we know from regular consumer receivers. The difference was only the connector type - BNC sockets were used in TP-1010. But that's not all, there was even a S-Video output. So, maybe

one can just connect a regular TV-set to see the menu and set the unit?

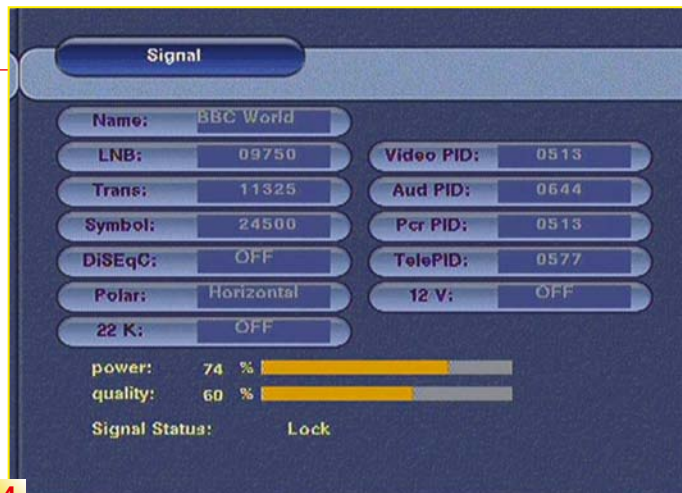
Yes, that was the way. The On-Screen Display we saw on our portable tv was very similar to the OSD which is used with regular satellite receivers. The significant difference was that all the receiver settings (including the numerical ones like frequency) were possible with just 6 buttons: four arrows, MENU and OK.

The receiver was not especially fast in accepting our key presses but this is not a very important feature for this kind of unit. As we already mentioned - you configure it once and then do nothing. The funniest thing we discovered was the game menu. It seems that the firmware for this receiver was not designed from scratch but rather adopted from the consumer receiver. Nothing wrong with this if the unit performs well.

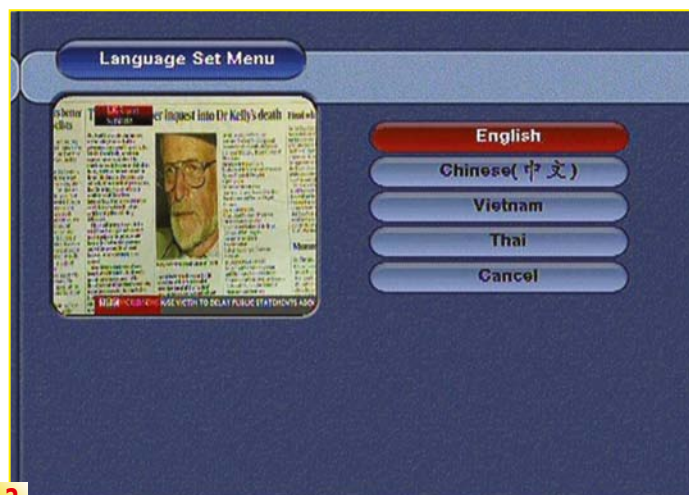




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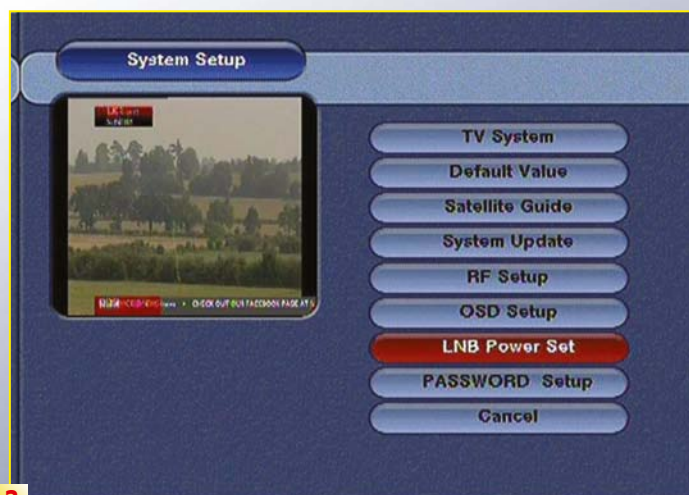
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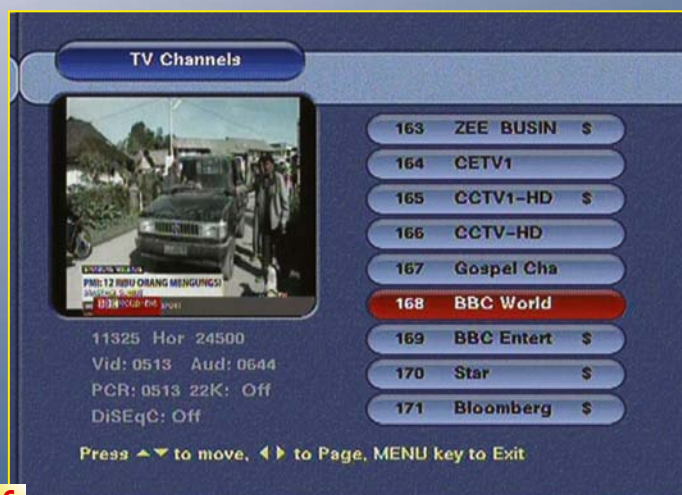
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3



6



1. Main menu of TP-1010 DVB-S Receiver
2. TP-1010 Language menu
3. TP-1010 System Setup
4. Setting up the reception of a THOR 5/6 transponder
5. Info bar after switching the channel in TP-1010
6. TP-1010 Channel list

We set the TP-1010 to receive a transponder from THOR 5/6 satellite at 0.8° West (11325H, 24500). Everything worked perfectly and within a second or so the video was on. We checked what happens when we switch the power off and on again. Video and audio were back after 2-3 seconds. That's what one expects from a professional receiver – in case of a power blackout the receiver recovers quickly and “gracefully” as soon as the power is back on.

Then, we decided to test the reception of low bit rate weak signals. TP-1010 could not lock to the very weak signals from EUTELSAT W6 on 21.6° East nor EUTELSAT W7 on 36° East. Their bit rate was from approximately 1.5 through 2.5 Ms/s. But to be fair, we must mention that our satellite analyzer was equally unable to lock to those weak signals either. Only the very modern high class receiver that we use for satellite DX-ing could lock and process these signals. In regular applications, TP-1010 will be used rather to process high bit rate strong signals from the popular satellites. After all, this is not a product aimed at the DX-er market.

The TP-1010 can cooperate with any type of LNB because you enter the LOF manually. You enter only one value as this receiver is supposed to lock to only one selected transponder. For example it can be 9750 MHz (the lower LOF of a universal LNB). Also the voltage corresponding to the polarization and the presence of 22 kHz that switches oscillators in the universal LNB must be set manually by the user.

We subjected the receiver to another tough test. We attenuated the input signal down to the receiver's sensitivity threshold and left it for 2 hours. In this way we simulated prolonged bad weather conditions. In such circumstances, the receiver must process a lot of erroneous data. This is extremely important for the professional receiver to be able to survive such situations without software crash. And TP-1010 did survive! As soon as we increased the level, it would produce crisply clear video and audio.

Our general impression of TP-1010 is that it has all the basic functions a professional receiver must have. Lack

of alphanumeric display is a small hindrance as you need a TV-set to configure the unit. Yet you should take into account that normally you configure this unit once and it stays unchanged for months or even years.

TP-1600 QAM Modulator

With this unit there was no surprise. The TP-1600 QAM modulator has a 2-line alphanumeric LCD display with backlit. This is very typical for head end equipment. Except for the LCD, there are six buttons and eight status LED's. The rear panel is quite ascetic – transport stream input, DVB-C signal output, LAN interface and ON/OFF power switch.

However, Topreal also offers more enhanced versions. If you wish, instead of transport stream ASI input, they can embed a DVB-S, DVB-T or DVB-C tuner with corresponding input signal connector. However, in its basic version, TP-1600 takes the transport stream supplied from a professional receiver or an encoder and modulates it onto a carrier. All QAM modes are available (16/32/64/128/256 QAM) in accordance with ITU-T J.83 Annex A.

We decided to set it up without referring to the operating manual and everything went smoothly. User interface was really simple and straightforward – everybody who understands the parameters of QAM modulation will set the unit in no time. You just enter the carrier frequency, QAM mode and symbol rate.

We checked the unit in the same way as the receiver to find out if it can recover after a power cut. As expected everything went OK. After about 30 seconds we noticed the signal again. Neither the receiver nor the modulator required any action from the user to resume operation.

But what about the strength and quality of the output signal? The channel power can be set from 107 through to 120 dBμV. We measured it for the settings of 120 dBμV and our meter showed us 119 dBμV. Very good accuracy of the settings.

Signal quality was nothing but perfect. We did the measurement for 64



1. Carrier frequency set to 474 MHz in TP-1600 QAM Modulator
2. TP-1600 output was set to 120 dBμV; our meter measures almost exactly the same
3. TP-1600 output signal has very high Modulation Error Ratio and noise margin as high as 11 dB for 64 QAM
4. Constellation diagram of DVB-C 64 QAM signal also shows its splendid signal-to-noise performance
5. TP-1600 set to the most demanding 256 QAM modulation mode; as expected, noise margin is lower than for 64 QAM but MER is as good as it was before
6. Constellation diagram for the 256 QAM mode is even more picturesque than the one for 64 QAM

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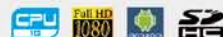
DVB-S FTA SDS-552ANP

- DVB-S FTA Scart stick
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HD IP Set Top Box IV210

- Online playback: 1Mbps ADSL supports smoothly, streaming DVD quality video/2Mbps ADSL for smoothly, streaming 720p quality video from bundled/Service or Content providers/TV live, VOD, download
- Content Access: Network open content source, Network specific content service
- Video decode: Full HD H.264, MPEG-1/2/4, DivX, WMV9, XviD, RMVB, FLV, MJPEG
- Audio decode: MP3, WAV, WMA, AAC-LC/HC, OGG Vorbis, RA, Dolby D
- Display resolution: 1080P
- WiFi 802.11(b/g/n): USB WiFi dongle, built-in USB WiFi module (Optional), SSID auto search, WEP/WPA encryption
- IP allocation: Static IP /DHCP/PPPOE



Android IP Set Top Box IV3001

- CPU: ARM Cortex A9, 1GHz@2500MIPS
- Video Decoding: H.264(1080p/i HP@L4.1), MPEG1/2/4(1080p/i) VC-1(1080p SP/MP/AP), RM/RMVB(720p)
- Audio Decoding: MP1/2/3, WMA, WAV, OGG, AAC, etc
- DVB-C/DVB-T Demodulator, 2 TS Input, 3 Demux
- 2 USB2.0(OTG/Host), Support SD/MMC Card
- OS: Android 2.3



Panodic Electric (ShenZhen) Limited

High Tech Office: 12/F, Greentech Building, Keji.C. Road 3rd Hi-Tech Industrial Park, Nanshan District, Shenzhen, P.R.China
Factory: C/D Block, Zhengchangda Ind. Park, Jian'an Road, Tangwei, Fu Yong, Baoan Dist., Shenzhen, China
 Tel: +86-755-8659 0230 Fax: +86-755-8659 0225 Email: market@micoelectric.com

Panodic Electric (Hong Kong) Limited

Headquarter: Unit 1703A, 17/F, Nanyang Plaza, 57 Hung To Road, Kwun Tong, Kowloon, Hong Kong
 Tel: +852 2951 4538 Fax: +852 2951 4738 Email: market@micoelectric.com

www.panodic.com

QAM and 256 QAM. Lower QAM modes are rather not used due to low bandwidth efficiency and 256 QAM is the highest possible mode according to the standard. Both measurements showed absolutely perfect carrier to noise performance. Of course the noise margin was lower for 256 QAM but this is simply physics and with every modulator we would get exactly the same outcome. The constellation diagrams confirmed what our MER and C/N measurements told us before about the signal. It was extremely clean almost no noise at all.

We observed for a longer period the BBC World channel received with TP-1010 from THOR 5/6 on 0.8° West and remodulated to QAM with TP-1600. We did not notice any single glitch. Everything was working flawlessly. Also the "bad weather" test (see the receiver chapter) lasting for 2 hours did not make the modulator software crash. It

channels from a selected transponder. In most cases, you would prefer to compose your multiplex with channels originating from different transponders or even different sources (satellite, terrestrial, A/V players and alike). For that purpose you need a multiplexer. By the way, the correct name would be re-multiplexer rather than multiplexer. In fact, Topreal uses the word re-multiplexer in their user manual, only on the unit itself one can read "multiplexer". In the course of this report, we will stick to its proper name: TP-1200 Re-multiplexer.

TP-1200 accepts up to 8 transport stream inputs and lets the users select whatever they want from the input data and compose one output transport stream. For example, we can connect eight TP-1010 receivers to the re-multiplexer, each tuned to a different transponder/satellite. Then, we can pick one or more programs (TV or radio

all the bits are sent serially rather than in parallel. The serial interface is prevailing in today's world as it uses simple coax cables fitted with BNC connectors.

When we combine content from different transport streams, we also need to update the data tables that are included in the transport stream. These tables describe the content of the stream. TP-1600 can produce or update the following tables: Program Association Table (PAT), Program Map Table (PMT), Service Description Table (SDT) and Network Information Table (NIT).

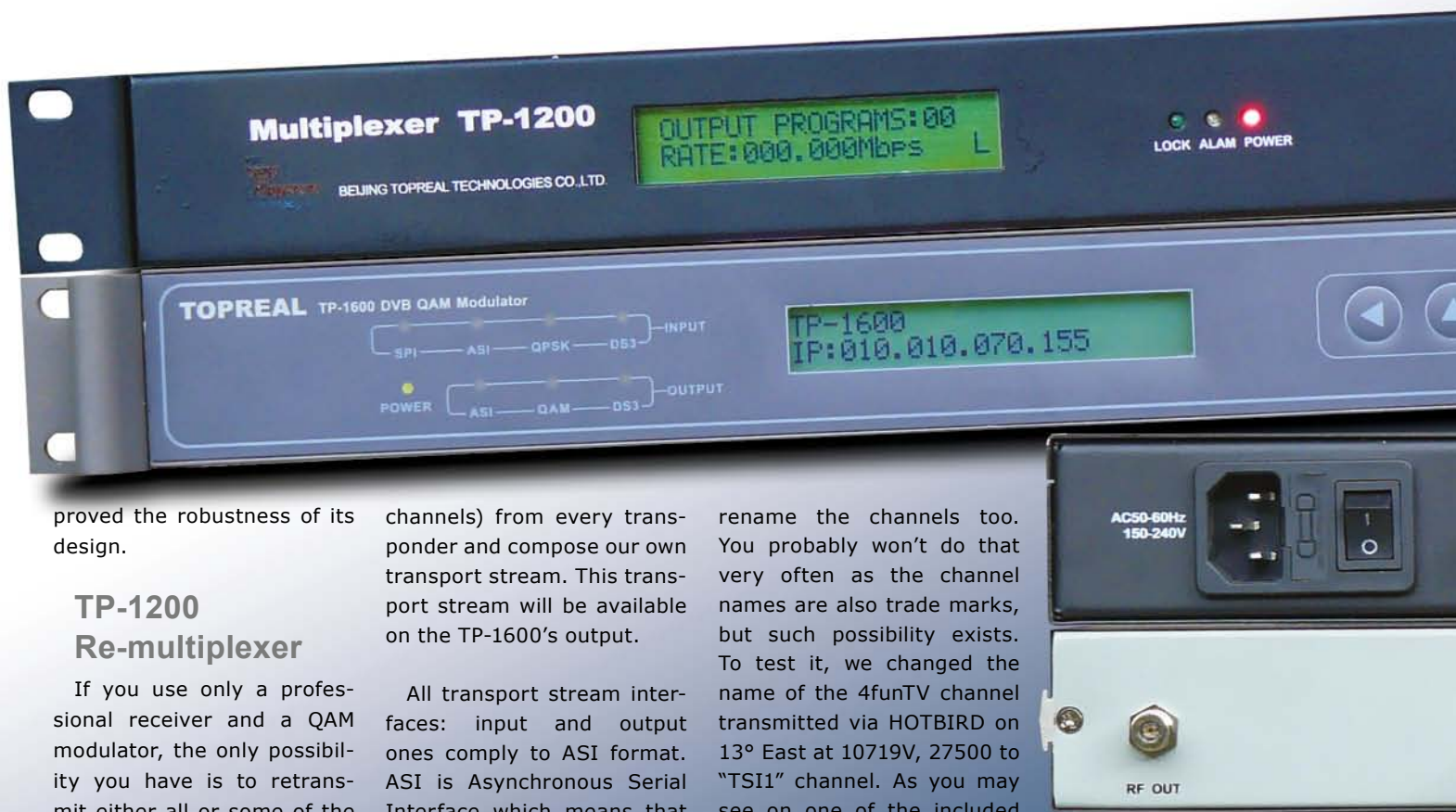
Of course, we can also change the PID's – for example the video or audio PID of a channel. Such PID re-mapping may be necessary if we have a conflict – the same PID's are used by channels in different input transport streams.

TP-1200 allows you to

photos, such channel name is displayed when the DVB-C signal is processed by our signal analyzer.

The menu structure of TP-1200 is much more complex as compared to TP-1010 or TP-1600 but this is obvious. Moreover, you need to know quite something about the transport streams, tables and the process of multiplexing. We did not have the software to do the settings from a PC via LAN connection. Definitely, this would be a much more convenient way of setting up 8 inputs and 1 output of TP-1200.

A little annoying feature that we would suggest to change is the keyboard lock. Upon powering up, the keyboard is locked and you need to press left arrow, right arrow and left arrow again to unlock it. That's still OK but if you hesitate a few seconds when doing a setting in the menu, the firmware will lock the keyboard again. You



proved the robustness of its design.

TP-1200 Re-multiplexer

If you use only a professional receiver and a QAM modulator, the only possibility you have is to retransmit either all or some of the

channels) from every transponder and compose our own transport stream. This transport stream will be available on the TP-1600's output.

All transport stream interfaces: input and output ones comply to ASI format. ASI is Asynchronous Serial Interface which means that

rename the channels too. You probably won't do that very often as the channel names are also trade marks, but such possibility exists. To test it, we changed the name of the 4funTV channel transmitted via HOTBIRD on 13° East at 10719V, 27500 to "TS11" channel. As you may see on one of the included

have to repeat everything from the very beginning. If you are very familiar with the re-multiplexer you can do all the settings fast enough but for the first-time user this is somewhat irritating.

Similarly to the two previous units, TP-1200 remembered all the settings after power failure and restored everything without any human interaction.

Conclusion

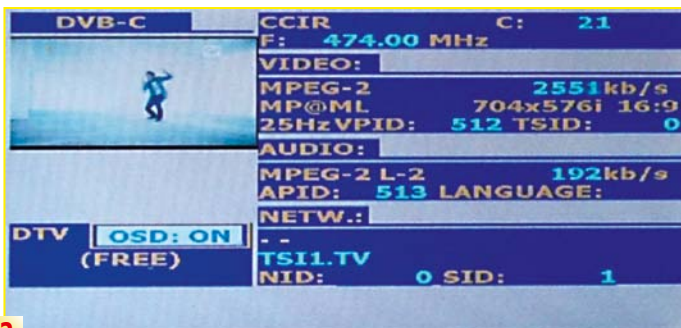
Although one can imagine more functions for the cable head end (like scrambling the content or VOD), the three components described above are the most fundamental devices you will consider when collecting the equipment for a cable head end. It is evident that they were designed as separate units rather than as a family, as they do not match in external design nor menu structure. However, for the professional user, the uniform style and

ease of use are probably not the most important parameters. The performance and the price must be right. All units passed the tests we ran without any single problem. The trio was handling power failures gracefully and did not hang up even when the incoming signal was full of errors. That's something that really counts in the head end equipment.

Performance of the QAM modulator was very good indeed. Perhaps, the sensitivity of the receiver could be improved a little.

1. BBC World channel originally transmitted via the THOR 5/6 satellite on 0.8° West received by TP-1010 and re-modulated to DVB-C 64 QAM by TP-1600

2. 4funTV from HOTBIRD 13°East received by TP-1010 Receiver, renamed to "TS11" channel with TP-1200 Multiplexer and modulated with TP-1600 QAM Modulator



TECHNICAL DATA

DATA	
Manufacturer	Beijing Topreal Technologies Co.,LTD., Beijing
Phone	+8610-64398830 +8610-64390960
Fax	+8610-64390769
Web page	www.topreal.com.cn
Email	sales@tengrui.com.cn / dengnj@tengrui.com.cn
TP-1010 DVB-S Receiver	
Input	DVB-S, 950-2150 MHz looped through
Digital output	2 x DVB transport stream (same signal on 2 connectors in ASI format)
Analog outputs	CVBS, Left/Right audio, S-Video
Power supply	90-250 VAC 50/60 Hz
TP-1200 Re-multiplexer	
Inputs	8 x DVB transport stream (ASI)
Input bit rate (every stream)	50 Mbps max.
Input packet length	188/204 bytes recognized automatically
Output	2 x DVB transport stream (same signal on 2 connectors in ASI format)
Output bit rate	2~108 Mbps
Output packet length	188 or 204 bytes (dummy Reed Solomon)
Power supply	90-250 VAC, 50 Hz, 25 W
TP-1600 QAM Modulator	
Input	DVB transport stream (ASI)
Output frequency	48~862 MHz
Modulation	16/32/64/128/256 QAM
Symbol rate	2~7 Msps
Power channel	107~120 dBμV
Power supply	90~260 VAC, 50/60 Hz, 30 W



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21
IPTV
RECEIVERS OF
21ST CENTURY

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Manufacturer	Amino
Website	www.aminocom.com
Function	IPTV Set-top-Box
Stream Protocol	UDP
Menu Standards	NetUP Middleware
WLAN	—



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Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	IPTV Set-Top-Box
Stream Protocol	UDP
Menu Standards	HTML4, Javascript 1.5, Java Virtual Machine
WLAN	• (via USB stick)



JIUZHOU DTP8300
IPTV Receiver Equipped
with Top-Notch Technology

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Manufacturer	NetUP
Website	www.netup.tv
Function	IPTV Gateway for DVB Signals
Stream Protocol	UDP
Menu Standards	NetUP Middleware
WLAN	—



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Manufacturer	AZBox
Website	www.azbox.com
Function	HDTV DVB-S2 and IPTV receiver with various Multimedia&Internet Features
Stream Protocol	UDP
Menu Standards	html
WLAN	—



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**KU-Band
Antenna with
Plastic Back Mount**



**KU-Band
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**KU-Band
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CONTACT US:

SICHUAN VIDEO ELECTRONIC CO., LTD.
www.svec.com.cn

International Market Department

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Fax: +86-28-87838898

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becky@svec.com.cn



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Manufacturer	Inpax
Website	www.inpax.com
Function	HDTV Satellite Receiver with PVR
DVB-S2/LAN	• / •
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Manufacturer	Amiko
Website	www.amikostb.com
Function	Digital HDTV DVB-S2 including dual boot
DVB-S2/LAN	• / •
Channel Memory	unlimited
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Manufacturer	AB-COM
Website	www.abcomeu.com
Function	HDTV Linux Receiver with single tuner and USB for PVR
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 IPBox 55HD
Ideal Linux receiver for those on a budget

eco friendly 0.5 power factor tested by TELE-satellite

AB IPBOX



Manufacturer	Skyworth
Website	www.skyworth.com.hk
Function	Combo Receiver for DVB-S2 and DVB-T
DVB-S2/LAN	• / •
Channel Memory	6000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

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Skyworth ALI-HD
Easy to use combo receiver in small size with excellent blind-scan

eco friendly 0.5 power factor tested by TELE-satellite

SKYWORTH



Manufacturer	Fulan
Website	www.fulansoft.com
Function	Digital HDTV Receiver with Dual-Boot and Spark online-plattform
DVB-S2/LAN	• / •
Channel Memory	unlimited
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	— / •

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Excellently designed operating software with built-in customer service

Energy Efficiency Rating
eco friendly
0.55
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Manufacturer	Golden Media
Website	www.golden-media.net
Function	Digital HDTV Dual Tuner PVR Receiver with Blindscan
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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GOLDEN MEDIA

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AWARD 02-03/2011

Golden Media UNI-BOX 9080 CRCI HD PVR COMBO PLUS
Perfect family receiver but also a top choice for the satellite DXer thanks to its high-speed BlindScan function

Energy Efficiency Rating
eco friendly
0.55
power factor
Tested by TELE-satellite

Manufacturer	AB-COM
Website	www.abcomeu.com
Function	Twin DVB-S2 Multimedia 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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AB IPBOX 9900HD
Very Powerful Satellite and Media Receiver with Endless Features

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Manufacturer	Jaeger / Doebis
Website	www.doebis.de
Function	Digital HDTV DVB-S2 Receiver with Smart Card reader for HD+
DVB-S2/LAN	• / —
Channel Memory	5000
DiSEqC	1.0 / 1.2
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

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JAEGER HD+ 2011
Excellent Family Friendly HDTV Receiver optimized for the HD+ Transmission Standard in Germany

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Manufacturer	AZBox
Website	www.azbox.com
Function	Digital HDTV Receiver with DVB-S2 and ISDB-T Tuners and various Multimedia & Internet Features
DVB-S2/LAN	• / •
Channel Memory	15000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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AZBOX



Manufacturer	ABC BIZNIS
Website	www.opensat.info
Function	Digital HD Receiver with PVR via USB
DVB-S2/LAN	• / •
Channel Memory	8000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
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OPENSAT





Manufacturer	Jiuzhou
Website	www.jiuzhou.com.cn
Function	Digital PVR DVBT Receiver
DVBT/LAN	— / —
Channel Memory	1000
PVR	•
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Manufacturer	AZBox
Website	www.azbox.com
Function	HDTV DVBS2 receiver with various Multimedia & Internet Features
DVBS2/LAN	• / •
Channel Memory	15000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	— / •
Scart/Digital Audio	• / •



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Manufacturer	Skyworth
Website	www.skyworthdigital.com
Function	Miniature SCART Receiver with PVR Function
DVB-S/LAN	— / —
Channel Memory	4000
DiSEqC	1.0 / 1.2 / 1.3
S-Video/HDMI	— / —
Scart/Digital Audio	• / —



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



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Manufacturer	TeVii Technology
Website	www.tevii.com
Function	PCI-E card for TV & Radio reception on the PC in SDTV and HDTV with two separate Tuners
Channel Memory	unlimited
Satellite Memory	178 preprogrammed - added by user: unlimited
Symbol Rates	2-45 Ms/sec
DiSEqC	1.0, 1.1, 1.2, 1.3

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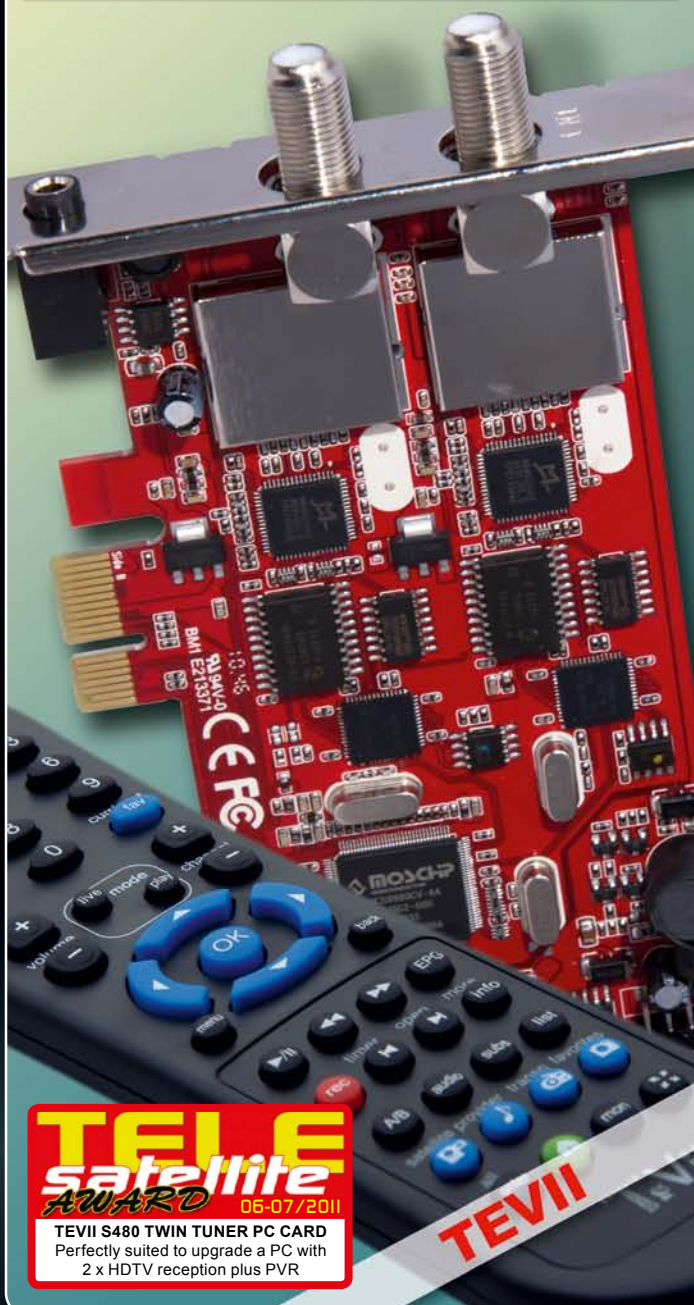


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Manufacturer	Tenow International
Website	www.tbsdtv.com
Function	PCI-E card for SDTV and HDTV with two separate tuners and PVR
Channel Memory	unlimited
Satellite Memory	176
Symbol Rates	1-45 Ms/sec (QPSK), 10-31 Ms/sec (8PSK)
DiSEqC	1.0, 1.1, 1.2



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French	Français	.../fra/netup.pdf	Turkish	Türkçe	.../tur/netup.pdf

Manufacturer	NetUP
Website	www.netup.tv
Function	Two Tuners DVB-S2 PCIe card
Channel Memory	unlimited
Satellite Memory	—
Symbol Rates	1 to 47 Ms/sec (QPSK), 1 to 31.5 Ms/sec (8PSK)
DiSEqC	1.0, 1.1, 1.2



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Manufacturer	TeVii Technology
Website	www.tevii.com
Function	PCI-E card for TV reception on the PC in SDTV and HDTV
Channel Memory	unlimited
Satellite Memory	177
Symbol Rates	2-45 Ms/sec
DiSEqC	1.0, 1.1, 1.2, 1.3



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Manufacturer	8dtek Technology
Website	www.8dtek.com
Function	Satellite Meter for Antenna Alignment
Frequency Range	L-Band (950-2150 MHz), DVB-S/S2 and analog signal
Video Output	Composite
Built-in Monitor	Color graphic LCD



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Manufacturer	SatCatcher
Website	www.satcatcher.com
Function	Signal meter for digital signals in DVB-S, DVB-T and DAB. Analogue signals in FM radio.
Frequency Range	46-870 MHz
Video Output	Composite
Built-in Monitor	120 x 64 3.5" LCD color display

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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Antenna Alignment Meter
Frequency Range	950-2150 MHz
Video Output	—
Built-in Monitor	LCD display



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Manufacturer	SPAUN Electronic
Website	www.spaun.de
Function	TV Signal Analyzer with WiFi Receiver
Frequency Range	45~865 MHz (terrestrial) and 950~2150 MHz (satellite)
Video Output	RCA Composite
Built-in Monitor	7 inch 16:9 color LCD display



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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Digital and analog terrestrial TV meter with spectrum analyzer and USB data output
Frequency Range	49~861 MHz
Video Output	—
Built-in Monitor	LCD display



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Manufacturer	SatCatcher
Website	www.satcatcher.com
Function	Signal Meter for DVB-T, analogue TV, digital DAB radio, analogue FM radio
Frequency Range	46-870 MHz
Video Output	—
Built-in Monitor	120x64 3.5" LCD color display

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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	DVB-C and analog cable TV meter
Frequency Range	51-858 MHz
Video Output	—
Built-in Monitor	LCD display



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Manufacturer	8dtek Technology
Website	www.8dtek.com
Function	DVB Signal Meter with tv monitor for DVB-S and DVB-T
Frequency Range	950~2150 MHz (satellite) and UHF/VHF (terrestrial)
Video In/Output	RCA/RCA
Built-in Monitor	3.5" LCD color display



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Manufacturer	Trimax Technology
Website	www.trimaxtec.com
Function	Satellite Meter with TV and Spectrum
Frequency Range	930~2150 MHz
Video Output	RCA Composite
Built-in Monitor	3.5" LCD color display



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Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Handheld Satellite Meter for fast and easy Dish Alignment
Frequency Range	950~2150 MHz
Video Output	—
Built-in Monitor	128x64 Pixel LCD

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Manufacturer	Global Invacom
Website	www.globalinvacom.com
Function	Signal Analyzer with an Optical Input
Frequency Range	950(160)~2150 MHz
Optical Range	+10 to -25 dBm
Video Output	—
Built-in Monitor	Eight-digit LCD display



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Manufacturer	SatCatcher
Website	www.satcatcher.com
Function	Fully-fledged Signal Meter with TV display
Frequency Range	930~2150 MHz
Video Output	RCA Composite
Built-in Monitor	120x64 3.5" LCD color display



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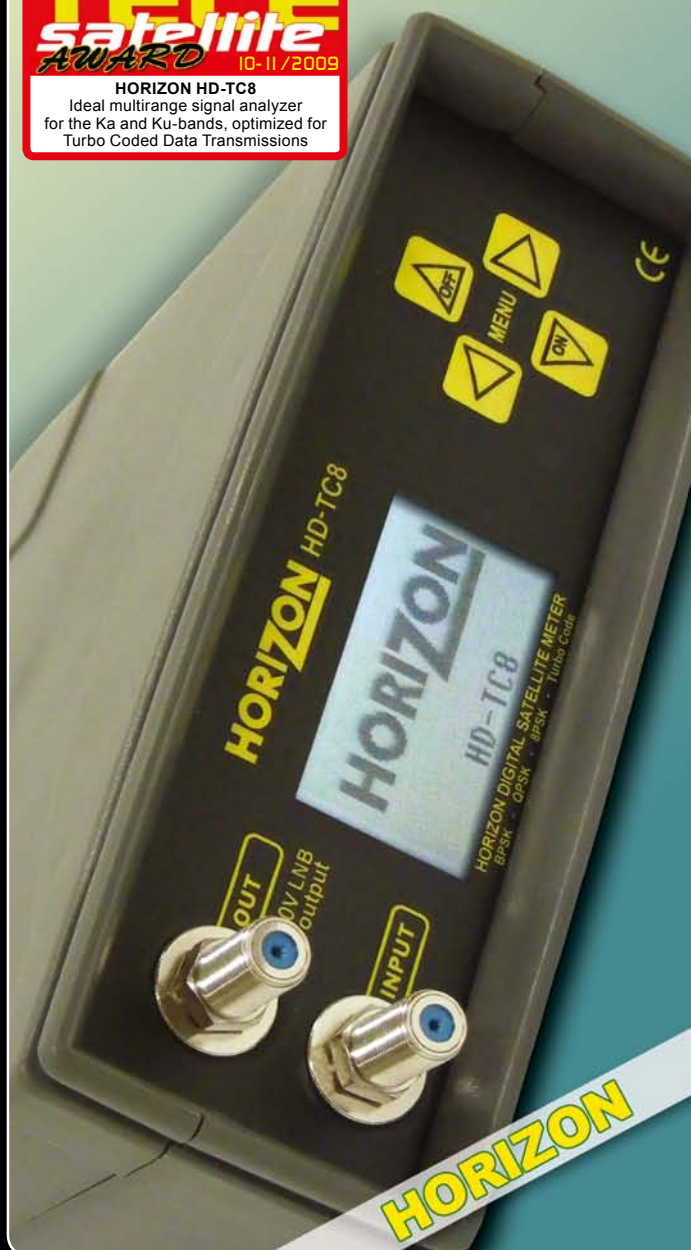
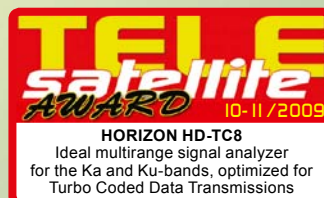
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French	Français	.../fra/horizon.pdf	Turkish	Türkçe	.../tur/horizon.pdf

Manufacturer	Horizon Global Electronics
Website	www.horizonhge.com
Function	Satellite Meter optimized for Ka-Band
Frequency Range	950~2150 MHz
Video Output	—
Built-in Monitor	LCD display





Enjoy Life With Heart



HD DVB-T H.264 HDD PVR

- MPEG2/4, H.264 HD/SD decoding (MP@HL/ML)
- Built-in HDD up to 1000GB, Twin tuner PVR
- Digital album or slide show through USB2.0
- HDMI with HDCP digital video output
- Low power consumption



HD DVB-S/S2 H.264 CA

- Fully DVB-S and DVB-S2 compliant
- MPEG2/4, H.264 HD/SD decoding (MP@HL/ML)
- CAS support such as Irdeto, Conax...
- Usb PVR ready, timeshifting, Live channel Pause
- Low power consumption



HD DVB-C H.264 CA

- MPEG2/4, H.264 HD/SD decoding (MP@HL/ML) supported
- CAS support such as Irdeto, Conax, NovelSuperTV, Sumavision
- HDMI with HDCP digital video output
- Dynamic HI-FI Stereo Sound System
- Digital album or slide show through USB2.0



SD DVB-S/S2 H.264 CA

- Fully DVB-S and DVB-S2 compliant
- MPEG2/4, H.264 decoding (MP@HL/ML)
- CAS support such as Irdeto, Conax...
- Electronic Program Guide(EPG)
- USB: PVR, photo viewing, mp3 file playing



SD DVB-C/S/T H.264 CA (Chipset-pairing)

- DVB-C or DVB-S/S2 or DVB-T
- MPEG2/4, H.264 decoding (MP@HL/ML)
- Support IRDETO, CONAX CA Chipset-pairing
- Supported Multi-language OSD supported
- USB: PVR, photo viewing, mp3 file playing



SD DVB-S 2tuner USB PVR

- Two DVB-S Tuner
- Record current channel and another channel while watching current channel
- Support Timeshift function & PIP function
- Multi-language OSD supported
- Electronic program guide (EPG)



SD DVB-T H.264 CA USB

- Fully DVB-T/MPEG-2/MPEG4 H.264 Compliant System
- Multi-language OSD and user friendly user interface
- Logical Channel Number(LCN)
- Subtitle, teletext function supported
- USB: PVR, photo viewing, mp3 file playing



SD DVB-T+S COMBO Receiver

- DVB-S + DVB-T Tuner(Combo)
- Teletext and EPG(overview for the next 64 days)
- Up to 3500 TV, 1500 Radio channels storage.
- Multi-language OSD and user friendly interface
- Diseqc 1.0 and 1.2 compatible



JIANGSU YINHE ELECTRONICS CO.,LTD.

www.yinhe.com

ADD: No. 188 NanHuan Road, TangQiao Town, ZhangJiaGang City, JiangSu Province

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The improved qualities make SmartWi the obvious choice of Multiroom Solution for Operators. It is very flexible and may be adopted to the specific preferences of an Operator in terms of technology, design or commercial setup. The final result is increased customer loyalty and a stronger future market presence for the Operator.

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قريبا لهذا المكتب
الجديد كليا و منشأة
الانتاج



جديد في الساحة ديفايزر

- البدء بمحللي اشارة اقمار صناعية
- اكثر من عشرين عاما من الخبرة كشركة تصنيع محلات اشارة
- سيكون التصنيع قريبا في مبنى جديد
- فريقهم الخاص للبحث و التطوير بمهندسين مؤهلين بدرجة عالية
- تعمل وفق جميع معايير الجودة

مؤسس ديفايزر و رئيسها زونج تشانجان . بدا
الشركة عام 1990



ديفايزر تثني على برنامج محلل الاشارة للكوابل ، الاتصالات و الالياف البصرية مع تكنولوجيا الاقمار الصناعية



اشارة تلفزيون الكوابل في الصين . مجموعة الانتاج هذه ما تزال تشكل معظم مبيعاتهم اليوم 80% من محلات الاشارة خاصتنا هي لتلفزيون الكوابل ، " يخبرنا المؤسس و الرئيس زونج تشانجان ، بينما 10% لكوابل الالياف البصرية و 5% للاتصالات . من المتوقع ان تكون ال5% المتبقية لمحلات اشارة الاقمار الصناعية التي تم بدء انتاجها حديثا .

يوضح لنا مدير مبيعات الاسواق الخارجية جايسون وو الى اين ترسل ديفايزر منتجاتها : " يتم شحن 50% للولايات المتحدة الامريكية ، 15% نذهب لاروبا ومثلها للهند و 20% المتبقية تذهب لكوريا الجنوبية و دول جنوب شرق اسيا

نقلنا القطار العالي السرعة بسرعة 330كم/ ساعة من محطة قطار جنوب بكين الجديدة الى محطة قطار تيانجين الجديدة ايضا . تيانجين هي مدينة بتعداد اكثر من 10 مليون نسمة و هي موطن للعديد من الشركات الصناعية المختلفة .

من المدهش ان ديفايزر هي واحدة من اقدم الشركات في تيانجين . تاسست عام 1990 تحت اسم ديلي من قبل زونج تشانجان، و هو مهندس طيران . و هو يفسر لنا : " في ذلك الوقت كان يجري بناء اولى شبكات تلفزيون الكوابل و لكن لم يكن هناك محلات اشارة . زونج تشانجان اعتنم هذه الفرصة و اسس اولى شركات انتاج محلات

بدأت ديفايزر عام 2010 في تطوير اولى محلات اشارة الاقمار الصناعية . يمكن ايجاد نتيجة هذا العمل على رفوف المحلات : النموذج الاولى s20 لقياس اشارة الاقمار الصناعية DVB-S . في يوليو 2011 سوف يظهر النموذج التالي بموالف جيل ثاني لبث الفيديو الرقمي عبر الاقمار الصناعية DVB-S2 و بحلول اكتوبر 2011 تخطط ديفايزر لنموذج S7000 الرفيع.

كيف يمكن لشركة مثل ديفايزر ان تصبح في نهاية المطاف منتجة لمحلات اشارة القمر الصناعي ؟ قامت تيلي ستلايت بزيارة للشركة في تيانجين ، و هي ميناء بحري كبير يقع على الساحل الصيني الشرقي .



■ مكاتب ديفايزر الجديدة و انتاجها
يتمثل بهذا النموذج المعماري .



INPAX[®]

UNITED TECHNOLOGIES OF INPAX

X-9100 Linux HD PVR

HDTV DVB-S2 Linux Based Digital Satellite Receiver CAS + LAN + USB PVR

Technical Specifications

MPEG Decoding
Transport Stream & Profile Level MPEG-4/H.264,
MPEG-2 MP@ML, MP@HL,
MPEG-4/AVC
Aspect Ratio 4:3 / 16:9
Output NTSC / PAL
Video Format 576i, 576p, 720p, 1080i

TUNER

Input frequency: 950MHz to 2150MHz
Input impedance: 75 ohms
Input level: -65dBm to -25dBm
Input socket: F type connector
LNB Power & Polarization: Horizontal: +18V;
Vertical: +13V;
Current: Max. 500mA; Short circuit protection
Band switch: 22KHz, DiSEqC

DEMODULATOR

Waveform: QPSK S2
Symbol rate: 2-45MS/s
Outer decoder: RS (204,188,8)
Code rate: 1/2,2/3,3/4,5/6,7/8

MAIN SYSTEM

CPU NXP8735 350Mhz
Flash Memory 64 Mbytes
SDram Memory 128 Mbytes

CONNECTION OUTPUT

TV SCART TV Video output (CVBS, RGB)
HDMI HD Video/Audio
Ethernet RJ45
A/V RCA CVBS
Digital Audio S/PDIF Digital Audio output RCA and
Fiber Optical

GENERAL

Supply voltage: 100-240VAC 50/60Hz
Power consumption: 20watts max.
Standby Power 3watts max.
Operation temperature: +5° to +40°
Storage temperature: -20° to +70°

Key Features

Based on NXP 8735E chipset
Ethernet function: YOUTUBE; INTERNET RADIO;
Linux Based !!!
Multi CAS Reader
1 Record 1 to watch in the same TP.
Full Media Player to support .AVI, .MKV, .MP4, .VOB, .MPG, .FLV, .wmv etc...
USB 2.0 PVR -- Record and play HDTV content
Real Timeshift -- do not miss any exciting moments.
Update software through USB interface.
Low Power --- 3 Watts
Support USB stick and Hard Drive Disk
Support WIFI dongle

Features

DVB-S/DVB-S2 Satellite Compliant (MPEG-II/ MPEG-IV/ H.264)
DiSEqC 1.0, 1.1, 1.2 & 1.3 (USALS) Compatible
SCPC & MCPC Receivable from C/Ku Band Satellites LNB Supported:
Variable Aspect Ratio (4:3,16:9) with Pan Vector or Letter Box
Output Resolution: 576p & 576i, 720p & 1080i
CAS reader
8 Favorite Group and Parent Lock Function
4 Kinds of Sort Function for Channels
On-screen Display with True full Color(32 bits) Resolution
Teletext and Subtitle Supported (OSD & VBI)
Blind Scan
7 days EPG (Electronic Program Guide) for On-Screen Channel Information
1 Scart, (RGB, CVBS)
Multi Language Menu
Supported FTP Download S/W, Channel List, Message and other additional
information.
OTA Download
Supported Unicable
8 favorite group and parental lock supported.
PIG-Small screen picture and zoom in function.
Supported setting timer, you can add up 8 timer event at most.
Multi-Picture supported
S/W download, upload and download channel data
backup channel list and restore channel list
Supported JPEG, bmp format.

HDMI

LAN

Music

10000
Channels

7 day
EPG

USB

Timeshift

Photos

8
Fav

You
Tube



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DEVISER
Signal Analyzer Manufacturer, China

TELE
www.devister.com

Company Details

Engineers in Research & Development | Total Number of Employees
0.....250.....500
Average Turnover (Previous, This, Next Year Estimates)
0.....12.5.....25 Mio US\$

Production Certificates
RoHS, CE, UL, ISO 10012, ISO 90001
Production Categories
OEM, own brand
Main Products
Signal Analyzers for Cable, Terrestrial, Telecommunications,
Fiber Optic and Satellite, Spektrum Analyzers, Vector Network
Analyzers, Broadcasting Measurement Instruments, QAM Meters



تحتية ودية بانتظاركم في مدخل ديفايزر . تعمل الشركة محليا تحت المسمى ادوات ديلي الالكترونية . مسمى العلامة التجارية ديفايزر يستخدم فقط للصادرات . بعض من العديد من الشهادات التي حصلت عليها ديفايزر على مر السنين معلقة هنا على الجدار . من ضمن هذه التشكيلة شهادات معترف بها دوليا في ISO 90001 (ادارة الجودة) و ISO 10012 (معايير قياس الجودة) . اضافة لذلك فان ديفايزر معتمدة من قبل CE, UL و الحد من النفايات الخطرة ROHS فضلا عن العديد من الاخرى .

اروبا و الهذ بصدد تقديم طلبات لنا . ان الثقة في التجربة و الخبرة لمهندسي ديفايزر هي عالية جدا حيث ان الوحدات يتم بيعها قبل ان يتم تصنيعها . و حتى مع ذلك ، فان ديفايزر مفتوحة على شارين اضافيين . الموزعين الذين هم على اتصال مع فنيي تركيب الاقمار الصناعية و شركات الكوابل المحلية يتوجب عليهم ان يرسلوا لي رسالة بريد الكتروني يقترح جايسون و المسؤول عن صادرات المنتجات .

اذا اردت مقابلة جايسون و و شخصيا ، يمكنك ان تجده هو و كبير مهندسي ديفايزر تساو يوليانيج في عدد من العروض التجارية مثل ، كابسات (ديبي) ، CCBN (بكين) ، SCAT (مومباي) ، Cable tec (اتلاننا) ، KCTA (دياجو) و العديد غيرها و اذا اردت ان تعرف المزيد حول عمل محلات اشارة الاقمار الصناعية ، عليك فقط الانتظار للاعدادا القادمة من تيلي ستلايت : سوف نقوم بعرض تقارير اختبار حول محلات ديفايزر الجديدة في الاعداد القادمة .

الاولى 1990 انتجنا نحو 100 وحدة ، يتذكر مؤسس ديفايزر زونج تشانجان ، في عام 2010 بلغت مبيعاتنا 30.000 وحدة . حقق هذا مبيعات بحوالي 20 مليون دولار امريكي عام 2010 . نتوقع لعام 2011 زيادة 20% في المبيعات ، هذا ما قاله مدير المبيعات للاسواق الخارجية جايسون و .

لقد بنى هذا اعتمادا على قطاع محلل الاشارة الجديد الخاص بالاقمار الصناعية : "نحن نتوقع ، على سبيل المثال، ان النموذج S20 الجديد و هو محلل اشارة اقمار صناعية سوف يوفر لنا صافي مبيعات بحوالي 15.000 وحدة للسنوات الثلاث القادمة و من النموذج عالي التقنية S7000 مبيعات بحوالي 500 وحدة سنويا .

يعرف بالفعل جايسون و و من يريد شراء هذه المحلات : " لدينا بالفعل عدد من الطلبات المسبقة . احد عملائنا في امريكا الجنوبية قد وضع طلبا بعدد 1000 وحدة و موزعين في

و حسب جايسون و ، نحن نستخدم فقط الاسم ديفايزر لصادراتنا .

من في الواقع الذي يستخدم منتجات ديفايزر ؟ يعطينا جايسون و و لمحة عن عملائهم : " انهم بالدرجة الاولى شركات الكوابل المهنية التي تحتاج الى انشاء و الحفاظ على شبكات الكوابل الكبيرة . فانت تحتاج لمحلات اشارة مهنية لذلك بالطبع فان هذا يظهر سؤال حول سبب بدء ديفايزر بانتاج محلات اشارة اقمار صناعية . ليس منذ زمن بعيد توسعنا لكوابل الاليف البصرية ، يعلق جايسون و ، الشيء الوحيد المفقود كان استقبال الاقمار الصناعية

بالاخذ بعين الاعتبار ان لدى ديفايزر اكثر من 20 سنة من الخبرة في هذا السوق ، فلا ينبغي ان يكون مفاجئا ان عدد 260 الموظفين منهم 85 مهندسين . مقسمين الى اربع فرق مختلفة للبحث و التطوير ، فالمهندسين المؤهلين بدرجة عالية يعملون باستمرار على تحسينات لمحلاتهم و على ميزات منتجاتهم الجديدة فضلا عن تطوير منتجات جديدة مثل محلات اشارة الاقمار الصناعية الجديدة . يمكن رؤية نجاح هؤلاء المهندسين في الانتاج و ارقام المبيعات . في سنتنا



► **DVB-S2 MPEG-4 HD/SD Receiver:**

- Fully DVB-S/DVB-S2 MPEG-4 HD compliant
- Support customized OSD language
- PVR, time shift
- CA optional with Topreal embedded, silicon security
- Fully support to 7 days EPG
- 2* USB 2.0 port: PVR function, MP3 & JPEG playback & software transfer
- Record one channel & watch another at the same time
- Support subtitle, teletext
- HDMI out with HDCP
- Other models available(DVB-C/S/T, MPEG-2/MPEG-4, HD/SD)

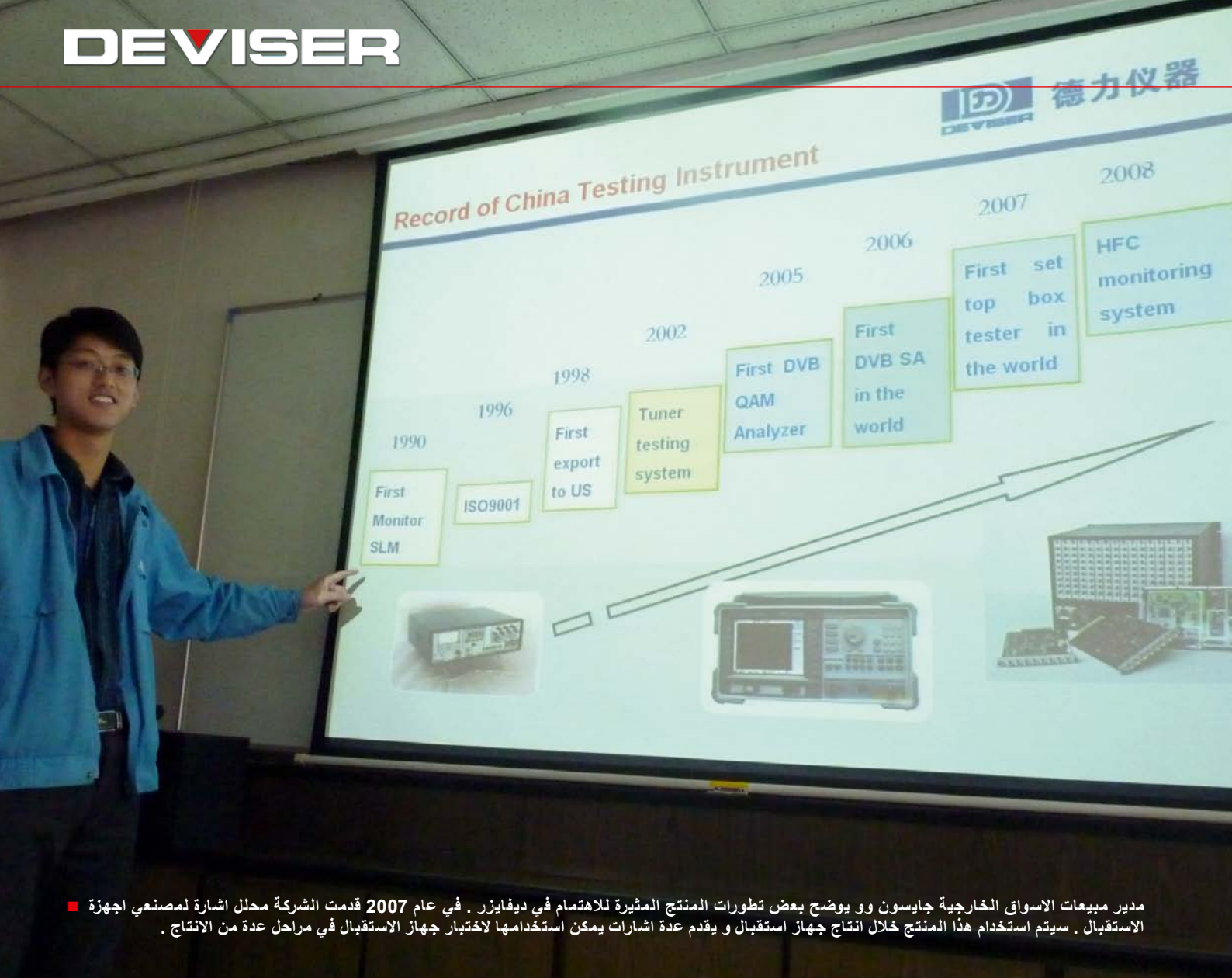
► **Topreal CAS+SMS(Billing System):**

- | | |
|--------------------------------|----------------------------------|
| • Subscriber Management System | • Advance/Silicon Safety |
| • Supporting simulcrypt | • Entitlement management |
| • IPPV(Impulse Pay per View) | • IPPT(Impulse Pay per Time) |
| • Fingerprint | • Mail/Announcement/Notification |
| • Paired function | • Regional Control |
| • Parent Control | • Card or Embedded CA available |

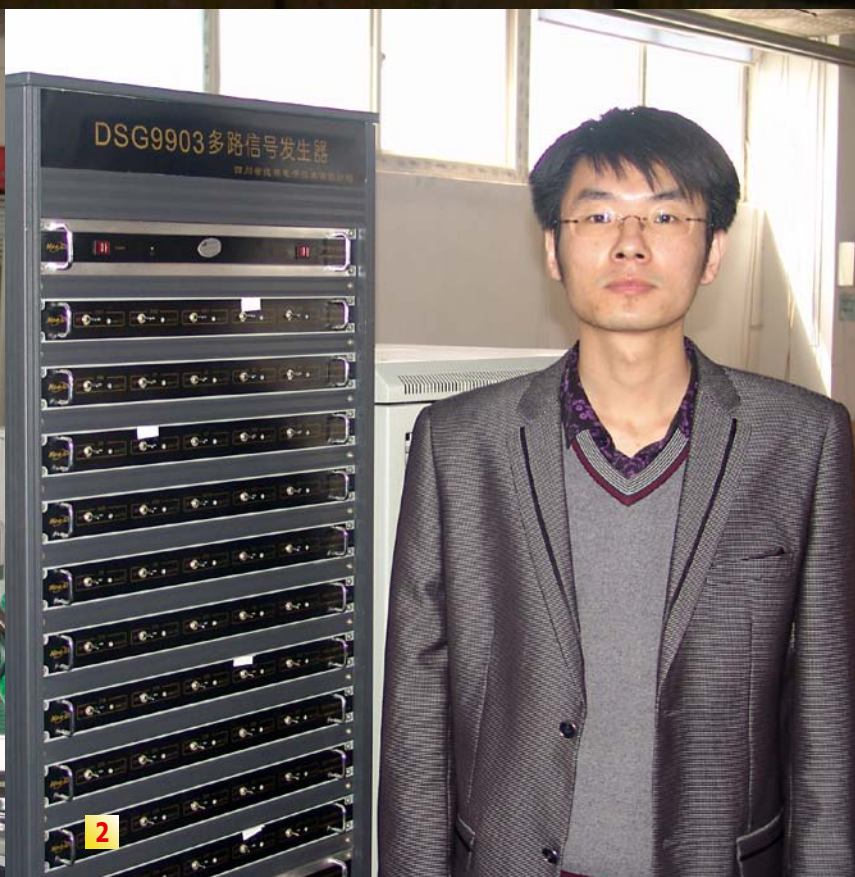


Beijing Topreal Technologies Co.,Ltd is a professional designer and manufacturer of digital TV head-end system. We have developed products with our own brand,which cover from DVB-S receiver,encoder(MPEG-4 HD/SD encoder,MPEG-2 SD encoder),multiplexer,scrambler,modulator to Set-top-box.

We also offer value-add products like subtitle insertion system,EPG,STB advertisement service system,browser,channel tracing table.All the products fully comply with DVB standard.



■ مدير مبيعات الاسواق الخارجية جايسون وو يوضح بعض تطورات المنتج المثيرة للاهتمام في ديفايذر . في عام 2007 قدمت الشركة محلل اشارة لمصنعي اجهزة الاستقبال . سيتم استخدام هذا المنتج خلال انتاج جهاز استقبال و يقدم عدة اشارات يمكن استخدامها لاختبار جهاز الاستقبال في مراحل عدة من الانتاج .





3



4

فريق البحث و التطوير

1 - كبير المهندسين هو تساو يوليانشانج . انه ينسق فرق البحث و التطوير الاربعة و هو الشخص الذي يتم الاتصال به من قبل العملاء في العروض التجارية . يمكنه ان يقدم اجابات عندما يكون لدى العملاء طلبات خاصة او عندما يرغبون في دمج ميزات جديدة في محلات الاشارة . و يقول ، استثمرت ديفايزر اكثر من 1.5 مليون دولار في التكنولوجيا الأكثر حداثة لتطوير اجهزة تحليل اشارة جديدة . " يمكن رؤية نجاح هذه الاستراتيجية في 30 براءة اختراع قد حصل عليها فريق ديفايزر .

2 - مدير قسم الكوابل و الاقمار الصناعية هو كونج زيانجسين . انه يقف هنا بجانب خزانة مغيرات تستخدم لتقديم اشارات لاختبار المحلل . 3 - يقدم المهندسين بفخر احد اول العينات من محلل اشارة الاقمار الصناعية S7000 الراقية . الى اقصى اليسار كبير المهندسين وانج زينج و الى اقصى اليمين كبير مهندسي البرمجيات وانج رينبنج .

4 - محلل اشارة يحتاج الى بيت ايضا . انجنها و هو مصمم البيوت (الغلاف) في ديفايزر و طور بيت لمحلل الاشارة الجديد S7000 ، على مكتبة عينات من انواع اخرى من محلات الاشارة التابعة لديفايزر .

فريق المبيعات



- 1 - يستمتع جايسون وو ببقراءة مجلة تيلي ستلايت . فهو مسؤول عن فريق المبيعات الخارجية المكون من اربع موظفين . يسافر كثيرا و يمكن العثور عليه في العديد من العروض التجارية في جناح ديفايزر .
- 2 - ارون لاتصال العملاء في اسيا
- 3 - فيكي هان هي موظفة اتصال العملاء في امريكا الشمالية .

الانتاج

- 4 - مدير الانتاج هو لي هونج زياو . انه يشرف على الـ 100 موظف للانتاج القوي و يوزع احمال العمل بين عامليه . نراه هنا امام مولد اشارة يستخدم عندما يتم اتمام سلسلة انتاج لمعايرتها واختبارها للعمل بشكل ملائم.
- 5 - نظرة لمدخل غرفة المخزن . يراقب الموظفون هنا المكونات العديدة التي لها حاجة لانتاج العديد من نماذج محلل الاشارة المختلفة.
- 6 - قطاع من منطقة الانتاج . يتم انتاج محلات الاشارة في خطوط تجميع صغيرة و محطات اختبار.





ADDITION TO THE JAEGER® - FAMILY ...

JAEGER® HD+ 2011 CI+

Best in test in the SATVISION issue 166



ENVIRONMENTALLY FRIENDLY
STANDBY-POWER CONSUMPTION < 1 WATT
ENERGY-SAVING WITH INTEGRATED
POWER SWITCH

PVR Ready -Direct recording via USB on
external storage media possible!

FULL HD!

1080 P, 1080i, 720 P, 576 P

USB 2.0 SLOT



For external HDD
or USB-Stick

HDMI



High Definition
Multimedia Connection

1 x SMARTCARD-READER



1 x COMMON INTERFACE

***** FULL HD *****



HD +
by ASTRA

FEATURES:

- CI+ Slot
- USB 2.0 slot for playback of external hard drive or USB flash drive
- PVRready. Direct recording via USB on external storage media possible
- HDTV & SDTV
- 5000 Program presets
- EPG (7 days in advance)
- 8 x multifunction timer
- Multilingual screen menu
- Software update via SatellitAstra 19.2 ° East
- Optical signal to the align the antenna
- Radio reception with background display
- DiSEqC 1.2
- Video-resolution 1080p, 1080i, 720p, 576p
- Format switching 4: 3 / 16: 9Letterbox
- Environmentally friendly: low standby power consumption



JAEGER HD+ 2011

HD +
by ASTRA



USB 2.0 SLOT



For external HDD
or USB-Stick

HDMI



High Definition
Multimedia Connection

1 x SMARTCARD-READER



FEATURES:

- USB 2.0 slot for playback of external hard drive or USB flash drive
- PVRready. Direct recording via USB on external storage media possible
- HDTV & SDTV
- 1 x smart card reader
- EPG (7 days in advance)
- Video-resolution 1080p, 1080i, 720p, 576p
- optical signal to the align the antenna
- 5000 Program presets
- Multilingual screen menu
- HDMI out with HDCP
- Radio reception with background display

JAEGER HDCI 2010

Ready for
HD +
by ASTRA



USB 2.0 HOST



For external HDD
or USB-Stick

HDMI



High Definition
Multimedia Connection

1 x COMMON INTERFACE



FEATURES:

- 1 x Common interface slot
- HDTV & SDTV
- Video-resolution 1080i, 720p, 576p
- USB 2.0 host for playback of external hard drive or USB flash drive
- Easy find software (works only in conjunction with easy find LNB)
- 5000 Program presets
- HDMI out with HDCP





7



8

الانتاج

- 7 - ماكنات تثبيت الاسطح SMT . يتم هنا وضع المكونات بصورة الية في مكانها .
- 8 - يتم اجراء اختبار بعد الانتاج . ان الباحث البصري الالي (AOI) ينفذ فحص بصري بشكل الي .
- 9 - يجب الاهتمام بالعدد من المهام يدويا . يتم هنا تجميع الموصلات .
- 10 - هنا يتم انتهاء اغطية محلل الاشارة .
- 11 - يقوم هنا موظف باختبار محلل الاشارة .
- 12 - واحدة من محطات الاختبار العديدة حيث يتم اختبار محلات الاشارة للعمل بشكل مناسب .
- 13 - قيل ان يتم وضع اقسام البيت معا ، يقوم موظف بعمل اختبار كامل لمحلل الاشارة .
- 14 - محلل الاشارة مكتمل و لكن هل يعمل بشكل صحيح ؟ في الاختبار النهائي يتم التحقق من معلمات مختلفة بمولدات اشارة ذات نوعية عالية لمعايرة المحلل .
- 15 - يتم تزويد الوحدات الجاهزة ببطاريات و يتم شحنها لمدة 36 ساعة .



9



10



11



12



13



14



15



16

ضبط الجودة

16 - يتم أخذ وحدة من كل انتاج و يتم وضعها عبر سلسلة من اختبارات خاصة . يتم اختبار كل معلمة ممكنة و مقارنتها مع القيم المطلوبة . و هذا يضمن الجودة في محلات اشارة ديفايزر .

17 - محلات اشارة الكوابل عالية المهنية التي تقدر قيمتها بعدة الاف من الدولارات يتم تصنيعها من قبل ديفايزر و تماما كالوحدات الاخرى ، تخضع لاختبارات شديدة . يجب ان تظل المحلات ضمن حدود التحمل عبر اختبار الشبيخوخة الذي يتم خلاله اجراء عدة اختبارات قياسات لضمان ان حدود التحمل لا يتم تخفيضها و جميع محلات ديفايزر لها عمر عملي لاكثر من 10.000 ساعة .



17

ضبط الجودة



18

18 - محلات ديفايزر في اختبار العمر مع شاشات واسعة النطاق . يتم تطبيق اشارات متنوعة بشكل دوري من اجل اختبار قياسات المحلل لهذه الاشارات .

19 - لا يتم استخدام محلات ديفايزر في درجة حرارة الغرفة فقط . لهذا السبب ، يجب ان تخضع كل وحدة لاختبار بيئة . يجب ان تعمل المحلات بشكل صحيح في درجات حرارة حتى 50 درجة مئوية . يجري هذا الموظف اختبار البيئة باستخدام مولدات اشارة متعددة .

20 - لانه يوجد عدد من نماذج محلل الاشارة المختلفة التي يتم تصنيعها من قبل ديفايزر ، فان عدد كبير من مولدات الاشارة يكون لها حاجة . مجموعة من هذه المولدات موجودة هنا في هذه الغرفة حيث يتم اختبار عينات الانتاج .

21 - محلات الطيف يتم اختبارها في غرفة اخرى . يتم توليد العديد من الاطيف و التي يجب على محلل الاشارة الخاص بديفايزر عرضها بشكل صحيح .

22 - اذا حدث ان فشل محلل ديفايزر بعد عدة سنوات من الخدمة فان مديرة خدمة ما بعد البيع يوي تيانهويج هي الشخص الصحيح للحدث معه فمع الستة فنيين الخاصين بالاصلاح ، يمكنها اعادة كل محلل اشارة من ديفايزر للحياة .



19



20



21



22

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COMPANY REPORT
信號分析器製造商德維斯公司

Signal Analyzer Manufacturer DEVISER, China

DEVISER's fiber optic R&D and manufacturing can be found in this building in Tianjin.

DEVISER

New on the Scene: DEVISER

- Starting off with two satellite signal analyzers
- Over 20 years experience as a signal analyzer manufacturer
- Fabrication soon to be in a new building
- Their own R&D Team with highly qualified engineers
- Operates with all of the corresponding quality standards

DEVISER's founder and President is Zhong Changgan. He started the company back in 1990.



Download this report in English

www.TELE-satellite.com/TELE-satellite-1107/eng/deviser.pdf

In October 2010, DEVISER began developing their first satellite signal analyzers. The result of this effort can already be found on store shelves: the basic S20 model for DVB-S satellite signal measurements. In July 2011 the follow-up model with a DVB-S2 tuner will appear and by October 2011 DEVISER is planning on a high-end S7000 model.

How does a company like DEVISER end up producing satellite signal analyzers? TELE-sat-

ellite paid a visit to the company in Tianjin, a large seaport located on the Chinese east coast.

The high-speed train traveled at 330 km/h and brought us from the brand new Beijing South train station to the equally brand new Tianjin train station. Tianjin is a city with more than 10 million inhabitants and is home to many different industrial companies.

Surprisingly, DEVISER is one of the oldest firms in Tianjin. It was found-

ed under the name DELY back in 1990 by Zhong Changgan, an aircraft engineer. He explains to us: "Back then the first cable TV networks were being built up but there were no signal analyzers available." Zhong Changgan recognized this opportunity and founded China's first manufacturer of cable TV analyzers. This product group still makes up most of their sales today. "80% of our signal analyzers are for cable TV", lists founder and



President Zhong Changgan, "while 10% are for fiber optic cable and 5% are for telecommunications." The remaining 5% are expected to be made up of the newly started satellite signal analyzers.

Sales Director Overseas Markets Jason Wu explains to us where DEVISER delivers its prod-

ucts: "50% are shipped to the USA, 15% each goes to Europe and India with the remaining 20% finding their way to South Korea and other Southeast Asian countries." According to Jason Wu, "We only use the name DEVISER for our exports."

Who actually uses DEVISER's products? Jason Wu gives an overview of their customers: "It is primarily professional cable operators that need to set up and maintain large cable networks. You need professional signal analyzers for that." Of course this brings up the question as to why DEVISER began producing satellite signal analyzers. "Not too long ago we expanded into fiber optic cable", comments Jason Wu, "the only thing missing was satellite reception."

Considering that DE-

VISER has more than 20 years experience in this market, it should come as no surprise that of their 260 employees, 85 of them are engineers. Divided into four different R&D teams, these highly qualified engineers are constantly working on improvements to their analyzers and on new product features as well as new product development such as the brand new satellite signal analyzers.

The success of these engineers can be seen in the production and sales numbers. "In our first year 1990 we produced roughly 100 units", remembers DEVISER founder Zhong Chang-gan, "in 2010 we reached sales of 30,000 units." This resulted in sales of about US\$ 20 million for 2010. "For 2011 we are expecting an increase

in sales of 20%", says Sales Director Overseas Markets Jason Wu.

He bases this in part due to the new satellite signal analyzer sector: "We're expecting, for example, that the new S20 satellite signal analyzer will net us sales of about 15,000 units for the next three years and from the high-end S7000 model about 500 units per year."

Jason Wu already knows who wants to buy these analyzers: "We already have quite a few preorders. One customer in South America has placed an order for one thousand units and our distributors in Europe and India are in the process of forwarding orders to us." The confidence in the experience and expertise of the DEVISER engineers is so high that units are being sold before they

are even manufactured. Even so, DEVISER is naturally open to additional buyers. "Distributors who have contact with satellite installers and local cable operators should send me an e-mail", suggests Jason Wu who is responsible for product exports.

If you want to meet Jason Wu in person, you can find him and DEVISER's Chief Engineer Cao Yuliang at a number of different trade shows such as CABSAT (Dubai), CCBN (Beijing), SCA-T (Mumbai), Cable Tec (Atlanta), KCTA (Daegu) and many others. And if you want to know more about how their satellite signal analyzers work, you merely have to wait for the next issues of TELE-satellite: we will be presenting test reports of DEVISER's new analyzers in upcoming issues.

Download this report in all major languages from the Internet:

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بداية اميكو



- منتجهم الخاص في المجر
- مكاتب مبيعات مباشرة في جميع دول اوروبا الوسطى
- تعاون مكثف مع شركة تزويد المكونات, فولان.
- تحديثات الية للبرنامج التشغيلي لجهاز الاستقبال و تطور ثابت مستمر
- فريق بحث وتطوير داخلي خاص . خدمة فنية داخلية



كيف تأتي علامة جهاز استقبال جديد للوجود ؟



"لقد بدأنا باربعة موظفين" يوضح جوزيف زيمان . يوجد اليوم 19 موظف في مكتب بودابست . توسعت مبيعاتهم لتشمل زبائن في دول مجاورة حيث ستجد ما تبقى من موظفي اميكو : 17 في مكتب مبيعات التشيك، ثمانية في رومانيا ، اربعة في صربيا فضلا عن ستة اخرين في مكتب المبيعات المحلي في المجر " دعونا لا ننسى الموظفين في خط انتاج جهاز الاستقبال و حيث ان الانتاج غير مستمر ، فان عدد الموظفين يتراوح بين 20 و 40 موظف .

لكن من الذي خلف اميكو ؟ يقع موطن اميكو في منطقة صناعية تم تطويرها حديثا شمال شرق العاصمة بودابست في المجر . يتكون من مبنى الادارة و معرض مرفق . تقوم اميكو بشحن اجهزة استقبالها من هنا الى دول في اوروبا الوسطى . انتقلت اميكو لهذا المبنى الجديد فقط نهاية عام 2010 ، قبل ذلك كانت اميكو تقع وسط مدينة بودابست .

لقد عرف مؤسسوا اميكو بعضهم البعض منذ وقت : التقينا سابقا عام 1995 " يتذكر المدير المالي زولت هارانجي . كان كلاهما يعمل في صناعة الاقمار الصناعية في شركات مختلفة . " في ذلك الوقت كان كل شيء تكنولوجيا تناظرية " يتذكر جوزيف زيمان . ثم بدأ العصر الرقمي ثم و عند مرحلة ما شعر كلاهما ان هذا هو الوقت الصحيح لاختار الامور بأيديهم الخاصة .

قدمنا في اخر عدد من تيلي ستلايت اول جهاز استقبال ثنائي التمهيد من اميكو : يمكن للمستخدم اختيار اي برنامج تشغيلي لاستخدامه في جهاز الاستقبال خاصة . هذا ابتكار رائع في انه يفصل الجهاز (جهاز الاستقبال نفسه) عن البرنامج التشغيلي (المستخدم لتشغيل الجهاز) .

لكن هناك المزيد : تم استخدام نظام سبارك لأول مرة في جهاز استقبال . فهذا لا يقدم فقط تحديثات الية لجهاز الاستقبال و لكن ايضا يسمح للشركة المصنعة بالاتصال مباشرة بالمستخدم النهائي . يبدو ان التطبيقات لهذه التكنولوجيا عديدة و ليس معروفا الى اي مدى يمكن ان يكون هذا .

■ المبنى في المقدمة يحتوي على مكاتب المبيعات، الادارة، البحث والتطوير والخدمات. هناك يتم شحن المواد من المستودع المرفق. الشركة حاصلة على شهادة ايزو من TUV .



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بمحض الصدفة ، تلقى جوزيف زيمان مكالمة هاتفية لحظة حوارنا : وجد فنيو اميكو خلل في البرنامج التشغيلي في احدث نسخة و مباشرة احوال هذه المعلومات لمزود المكونات فولان في الصين . انها الثانية مساء في بودابست و خلال دقائق جاءت الاجابة من الصين : " اننا نعمل على هذا " نظر جوزيف زيمان بعد مكالمة و قال " هذا ما يجعل تعاوننا مع فولان مثالي : رد فعل مباشر لمشكلة على

زيمان ، لدينا مخازن مليئة بقطع الغيار و التي يمكن منها ارسال اي مكونات لكل جهاز استقبال لزيائننا . سوف نكون قادرين على القيام بذلك لسنوات قادمة . اذا كنت تتحكم بخط انتاجك الخاص ، يمكنك الادلاء بتصريح مثل هذا . لكن هذا كان سبب واحد جعل اميكو تقرر انتاج منتجاتها الخاصة .

جزء من مبيعاتهم اليوم . في عام 2010 كانت 50% من مبيعاتنا جملة و 50% اخرى من اجهزة الاستقبال ذات علامتنا التجارية ، يوضح المدير العام زولت هارنجي .

لعام 2011 تبدو الصورة مختلفة : " نتوقع للعام الحالي ان تشكل العلامات التجارية لاجهزة استقبالنا 70% من مبيعاتنا بينما ستخفض تجارة الجملة



حتى 30% " ، يعلق زولت هارنجي . ان مسمى العلامة التجارية اميكو جديد جدا . يفسر جوزيف زيمان ، " عام 2010 اسسنا علامتين تجاريتين : اميكو لتجار التجزئة و SYNAPS للمشغلين " . SYNAPS تقدم اجهزة بث فيديو رقمي عبر الكوابل DVB-C او ارضي DVB-T لمزود الكوابل و البرمجيات . اميكو هو الاسم التجاري لتجارة التجزئة . نحن نعمل بتقارب وثيق مع شركة فولان في الصين فهي تقدم لنا معظم مكونات اجهزة الاستقبال ، يوضح مدير التسويق جوزيف زيمان ، يتم تجميع اجهزة الاستقبال على خط انتاج في بودابست . لقد حققنا نوعية ممتازة في انتاجنا ، و يواصل ، ان المكونات من فولان هي بالفعل من اعلى مستويات الجودة و فريق ضمان الجودة لدينا يقوم بفحصها مرة اخرى .

حتى ان الاكثر اهمية في حصولك على خط الانتاج الخاص بك و العلامة التجارية الخاصة بك لجهاز الاستقبال هو جعل المستهلك يعتمد عليك . خلال سنوات خبرتهم فقد شاهدوا المالكين هذا من قبل . لقد حول الموردون انتاجهم الى مكان اخر و الزبائن سيصلون بالبائع و يشتكون من عدم حصولهم على قطع غيار او خدمة . لا يمكن ان يحدث هذا مع منتجاتنا ، يعلق جوزيف

- 1 - مدير التسويق في اميكو جوزيف زيمان .
- 2 - زولت هارنجي راضي عن ارقام المبيعات . هو المدير المالي في اميكو .

الرغم من الستة ساعات فارق زمني مع الصين " اميكو و فولان هما شركتان مثاليتان لبعضهما البعض ، انتاج و توزيع حيوي هنا مع تصنيع المكونات هناك .

يرى جوزيف زيمان كل شيء واقعي: " وجدنا انفسنا في منافسة قوية مع مزودين اخرين و لكن على المدى البعيد النجاح سيكون حليف اولئك الذين يقدمون افضل منتجات و يقدمون افضل خدمة . " و حسب جوزيف زيمان ، ان تحديد اي جهاز استقبال يستخدمه الزبون لا يعتمد على الزبون و لكن على من يقوم بعملية التركيب او البائع : فقط باستخدام اجهزة الاستقبال انفسها ، التجار و اخصائيي التركيب يمكن لهم التوصية بعلامة تجارية محددة تقدم افضل خدمة . فلن يكون مفيدا اذا كان الزبون يعود بشكوى بعد وقت قصير .

يقول جوزيف زيمان ان دقة تصريحاته ثبتت بالنمو الثابت على المدى القصير لشركته الشابة اميكو . تأتي هذه الزيادة نتيجة التطور السريع لمبيعات جهاز استقبال اميكو . التوزيع الجغرافي لهذه المبيعات مثير للاهتمام على وجه التحديد . الغريب كفاية هو ان السوق المحلي في المجر ليس هو الاكبر ، بحوالي 20% فان جمهورية التشيك ، سلوفاكيا و رومانيا هي في المقدمة و المجر في المكان الرابع بحوالي 15% .

ان حقيقة : كون اميكو موجودة بشكل جيد في هذه الدول يرجع بالدرجة الاكبر لسياساتهم الفعالة و في التجارة : " لدينا مكاتب مبيعات في جمهورية التشيك ، رومانيا ، صربيا و حتى هنا في المجر : " يوضح جوزيف زيمان عن سبب كون المبيعات جيدة في هذه الدول .

في بلدان اخرى من اوروبا الوسطى يوجد لاميكو علاقات وطيدة مع تجار الجملة ، يسرد جوزيف زيمان هذه الدول : " بلغاريا ، كرواتيا ، البوسنة و الهرسيك ، سلوفاكيا ، اليونان ، سلوفينيا و كذلك دول البلطيق الثلاثة . هذا ليس كل شيء : عام 2011 سنبدا بالتوزيع في اوكرانيا مع تاجر محلي هناك و نخطط عام 2012 ان نذهب الى البانيا " . اميكو في حال توسع مستمر .

- 3 - مارتون لينجيل مدير المبيعات و مدير فريق من 6 مندوبي مبيعات .
- 4 - بيانا كارساي مسؤولة عن المبيعات و الخدمات اللوجستية .





1



2

نحن لم نكن فقط مهتمين في كيفية انتشار اميكو جغرافيا ، نريد ان نعرف ما خططوه لاجهزة استقبالهم . هذا سؤال كان جوزيف زيمان سعيدا جدا للاجابة عنه . في الربع الثالث سوف يظهر جهاز اميكو الين 2 ALIEN بشريحة اقوى . عدا عن ذلك ، فاننا دائما نوسع البرنامج التشغيلي لجهاز الاستقبال بمزايا جديدة .

يسلط جوزيف زيمان الضوء على هذه المزايا لنا و التي يجب ان تظهر لاحقا هذا العام : متصفح انترنت ، شبكة انترنت لاسلكي ، دعم فلاش ، NTFS ، منفذ ناقل تسلسلي عام و الرسائل " . مالكو اجهزة استقبال الين ALIEN يجب ان يكونوا سعداء ، فسوف تظهر هذه المزايا الجديدة على اجهزة استقبالهم وحدها و ذلك بفضل خاصية التحديث الالي للبرنامج التشغيلي .

1 - فريق البحث و التطوير في غرفة الهندسة المجهزة جيدا .

2 - فني من اميكو يفحص بحثا عن اخطاء . عند اكتشاف مشكلة ، يتم تعديل الانتاج حتى لا تظهر المشكلة مرة اخرى .

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■ مستودع كبير بجوار مبنى الإدارة مباشرة . لا يتم فقط شحن أجهزة استقبال اميكو هنا و لكن ستجد مكونات اقمار صناعية مخزنة هنا (وحدات خفض ضجيج ، اطباق ، موزعات ، كوابل) و التي تقوم اميكو باعتبارها تاجر جملة بشحنها الى المحلات التجارية و مبنى التركيب .

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منتجاتهم ؟ بمجرد ان تصبح هناك حاجة لوظائف اضافية او لتوسيع النطاق الترددي الذي توجد حاجة ان يتم استقباله ، على سبيل المثال ، التلفزيون الفضائي فان الحل الوحيد سوف يكون بامتلاك جهاز استقبال مستقل ، يعلق جوزيف زيمان .

انه مقتنع بان اميكو باجهزة استقبالها وفوق كل شيء خط انتاج اجهزة الاستقبال الجديدة الين ALIEN سوف ينحت مسارا يسمح لها بالتوسع المستمر و ان تجلب معها طاقة نمو كبيرة . لا يمكننا الا ان نتفق مع ذلك .

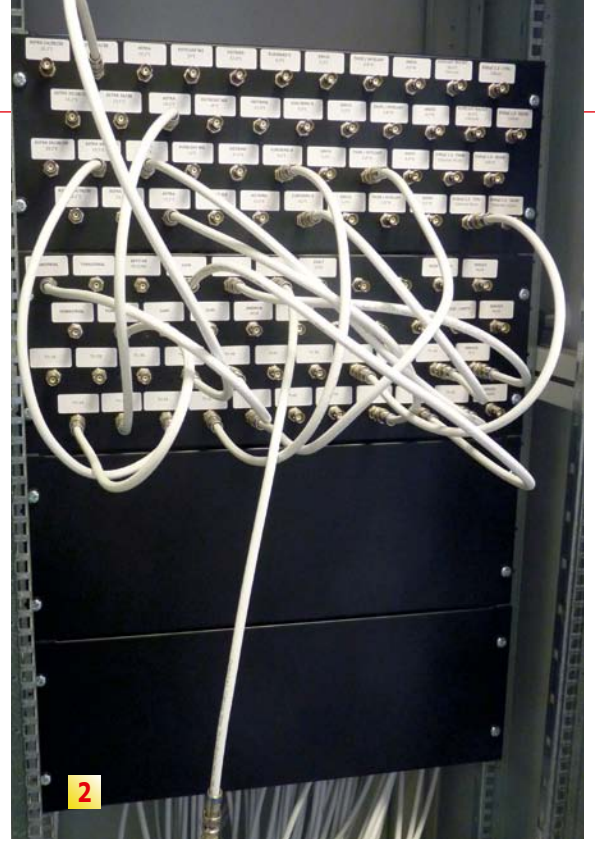
هل يمكن ان تتوقع رؤية اي مفاجات اخرى من اميكو ؟ يكشف جوزيف زيمان قليلا عن خط جهاز الاستقبال الثاني ، SYNAPS المستخدم من قبل مزودو البرمجيات و الكوابل : " بحلول نهاية عام 2011 سوف نقدم اجهزة استقبال مزدوجة الشرائح " بهذه الطريقة يمكن ان تخدم اميكو مقدموا البرمجيات الذين يستخدمون هذه التكنولوجيا .

هل يهتم مديري اميكو ان مصنعي اجهزة التلفاز سوف يقومون يوما ما بدمج اجهزة استقبال في

■ تم تثبيت الاطباق الفضائية على سطح اميكو بطريقة منظمة للغاية . رولت يوريسيا هو قائد فريق البحث و التطوير و يوضح لنا ما نرى هنا : " ستجد هنا 5 هوائيات بقطر 85سم و كل منهم مزود بمحرك دايستك . يوجد ايضا طبق بقطر 1.25 متر واحد بمحرك و الاخر مثبت مكانه و محاذي على اتجاه 36 شرق و مزود بوحدة خفض ضجيج للنطاق كيو KU دائري .



1



- 1 - هوائي حلقي يتسعة وحدات خفض ضجيج كواترو تنهي حلم اعداد هوائي الاقمار الصناعية هذا .
- 2 - تجد كل كوابل الاقمار الصناعية هذه طريقها الى خزانة المحول - تدخل توصيلات الهوائي للنصف العلوي من الخزانة بينما الخطوط الخارجة تأتي من الجانب السفلي و تذهب لكل مركز عمل و شاشة عرض . بهذه الطريقة يتم تزويد كل محطة عمل و شاشة باشارة قمر صناعي مستقلة : عليك فقط توصيلها بالكابل المناسب . الطريقة السهلة في قراءة التسميات على التوصيلات تسهل و تبسط عملية الاستخدام .

Fabrication at AMIKO

1



2



- 1 - نظرة لمنطقة الانتاج : يقوم موظفو اميكو بتجميع اجهزة الاستقبال هنا .
- 2 - يتم اختبار اجهزة الاستقبال المنتهية بشكل فردي قبل تعبأتهم .

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COMPANY REPORT
遠隔家推進由英促編機所作

Receiver Manufacturer AMIKO, Hungary

AMIKO

AMIKO's Start

- their own production in Hungary
- direct sales offices in all central European countries
- intensive cooperation with component supplier FULAN
- automatic receiver software updates and constant further development
- in-house R&D team and in-house technical service



Download this report in English

www.TELE-satellite.com/TELE-satellite-1107/eng/amiko.pdf

In the last issue of TELE-satellite we introduced the first Dual Boot receiver from AMIKO: the user can choose which operating software to use in his receiver. This is a remarkable innovation in that it separates the hardware (the receiver itself) from the software (used to operate the receiver).

But there's more: Spark was put into service for the first time with any receiver. This not only provides for automatic receiver updates but it also allows the manufacturer to directly communicate with the end user. The applications for this new technology appear to be numerous; it's really not known as yet how far reaching this can be.

But who's behind AMIKO? In a newly developed in-

dustrial zone northeast of Hungary's capital Budapest, AMIKO has its home. It consists of an administration building and an attached warehouse. AMIKO ships its receivers from here to countries in central Europe. AMIKO moved into this brand new building only at the end of 2010; before that AMIKO was located in downtown Budapest.

AMIKO's founders have known each other for quite some time: "We met back in 1995", remembers Financial Manager Zsolt Harangi. They were both involved in the satellite industry with different companies. "Back then it was all still analog technology", recalls József Zsimán. Then the digital age began and at some point the two of them felt the time

was right to take things into their own hands.

"We started with four employees", explains József Zsimán. Today there are 14 employees in their Budapest office. Their sales have expanded to include customers in neighboring countries where you'll also find the remainder of AMIKO's employees: 17 in the Czech sales office, eight in Romania, four in Serbia as well as six more in local sales offices in Hungary. And let's not forget the employees in the receiver production line. Since production is not continuous, the number of employees varies between 20 and 40. When the business first started, the two partners focused on being a satellite wholesaler. They distributed digital receivers from a va-



riety of manufacturers as well as everything else an installer needs: LNBs, dishes, multiswitches and cable. This business still makes up a part of their sales today. "In 2010 50% of our sales were wholesale with the other 50% consisting of our own receiver brands", explains Financial Manager Zsolt Harangi.

For 2011 though the picture looks quite different: "We expect for the current year that our receiver brands will make up 70% of our sales while our wholesale business will drop to

30%", comments Zsolt Harangi.

The AMIKO brand name is very new. József Zsimán explains, "In 2010 we founded two brand names: AMIKO for retail and SYNAPS for operators." SYNAPS offers DVB-C and DVB-T receivers for cable and other programming providers. AMIKO is a brand name for the retail market. "We are working very close together with FULAN in China. They provide us with most of our receiver components", explains Marketing Manager József Zsimán. The receivers are assembled on a production line in Budapest. "We have achieved excellent quality in our production", he continues, "The components from FULAN are already of the highest quality and our own quality assurance team checks it all once again."

Even more important with having your own production line and your own receiver brand is having the customer rely on you. In their many years of experience the two owners have seen it all before: suppliers shifted their production elsewhere and customers would contact the dealer and complain why they can't get any spare parts or service anymore. "This can't happen with our products", comments József Zsimán, "We have a fully

stocked spare parts warehouse from which we can deliver any possible component for every receiver to our customers. We'll be able to do this for years to come." If you control your own production line, you can make statements like that. But this was only one of the reasons why AMIKO decided to produce their own products.

By sheer coincidence, József Zsimán received a telephone call at that very moment in our interview: the AMIKO technicians found a software bug in the newest version and immediately forwarded this information to the component provider FULAN in China. It's 2PM in Budapest and within minutes an answer came from China: "We're working on it." József Zsimán looks up from his mobile telephone: "This is exactly what makes our cooperation with FULAN so perfect: immediate reaction to a problem despite the six-hour time difference with China!" AMIKO and FULAN are two companies that are perfect for each other; energetic production and distribution here with component manufacturing there.

József Zsimán sees it all realistically: "We find ourselves in stiff competition with other providers but over the long term success will only be for those who

provide the best products and offer the best service." According to József Zsimán, the decision on what receiver the customer uses doesn't rest with the customer but rather with the installer or dealer: just from using the receivers themselves, installers and dealers can recommend a specific brand that provides the best service. It doesn't help the situation if a customer comes back with complaints after only a short time.

József Zsimán says that the accuracy of his statements is proven simply by the consistent, short-term growth of his young company AMIKO.

This increase is above all the result of the speedy development of AMIKO receiver sales. The geographical distribution of these sales is especially interesting. Oddly enough the home market in Hungary is not the biggest; in fact, at about 20%, The Czech Republic, Slovakia and Romania are at the top with Hungary in fourth place at about 15%.

The fact that AMIKO is so well placed in these countries is due in large part to their active business policy: "We have sales offices in The Czech Republic, Romania, Serbia and even here in Hungary", explains József Zsimán why sales

are so good in these countries. In other central European countries AMIKO has very tight relationships with wholesalers. József Zsimán lists them: "This includes Bulgaria, Croatia, Bosnia & Herzegovina, Slovakia, Greece, Slovenia as well as the three Baltic states." And that's not all: "In 2011 we'll begin distribution in the Ukraine with a local dealer there and in 2012 we plan to go into Albania." AMIKO is continuously in expansion mode.

But we weren't only interested in how AMIKO is spread out geographically; we also wanted to know what they have planned for their receivers. This was a question that József Zsimán was only too happy to answer: "In the third quarter the AMIKO ALIEN.2 will appear with an even more powerful chipset. Aside from that, we are always expanding our receiver software with new features."

József Zsimán highlights these features for us that should appear later this year: "Web browser, WiFi, Flash Support, NTFS, USB Hub and Messaging." Owners of AMIKO ALIEN receivers should be happy; these new features will appear on their own in their receivers thanks to the automatic software update feature.

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أطباق مخرمة من الجزائر

Alexander Wiese



بمسلسلة جديدة من أطباق الأقمار الصناعية المصنوعة من المعدن المخرم ، تريد شركة تصنيع الالكترونيات الجزائرية بايا ان تبدا هجوم التصدير. هل هناك اسباب لتوقع النجاح في سوق أطباق الأقمار الصناعية المتنازع عليها بقوة ؟ لن يكون سهلا على بايا ، لكن توجد عدة أسباب تجعل المرء متفائلا . يعطينا سليمان آية الله أسباب هذا التفاؤل.

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Dish and Receiver Manufacturer, Algeria
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Company Details

Engineers in Research & Development | Total Number of Employees
0.....75.....150

Average Turnover (Previous, This, Next Year Estimates)
0.....5.....10 Mio Euro

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Production Categories
OEM, ODM

Main Products
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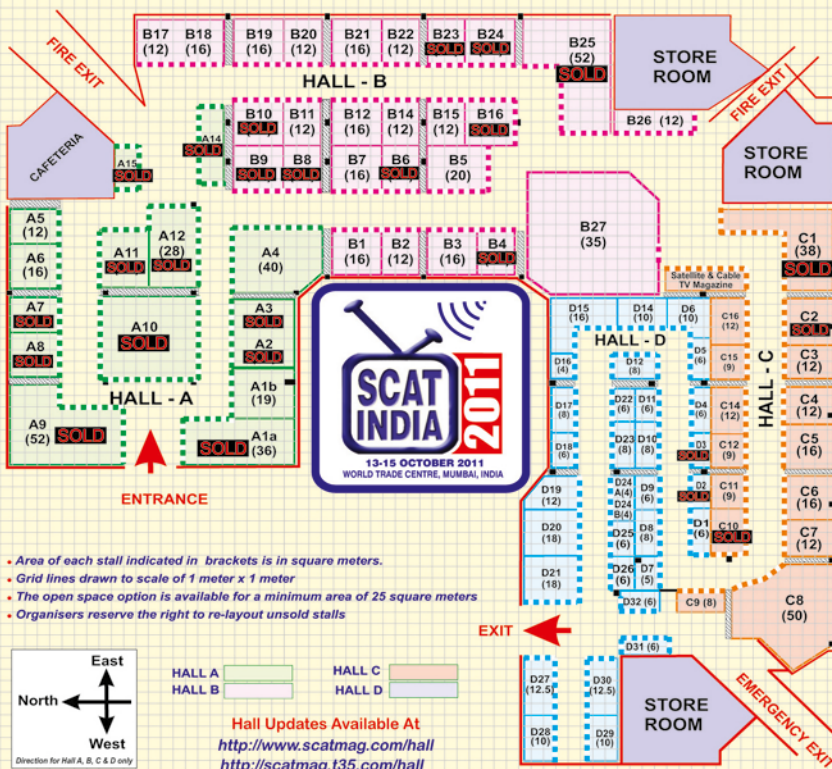


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- Analog Sunset Soon - Huge Demand For Digital HeadEnds & Addressable Systems
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- Cable Modem And Broadband Services Deployed
- 6 DTH Platforms & 30 Million DTH Subscribers
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YOUR COMPETITORS WILL ALL BE THERE, WILL YOU?



**Ain El Bia
(Oran, Algeria)**

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ناجحة في سوق التصدير :
" الجزائري دولة مصنعة
للنفط " ، ويفسر ، " يعني
هذا أن تكاليف الطاقة في
الجزائر منخفضة جدا " ،
ويتابع على الفور في ذكر
السبب الثاني ، " الأجور في
الجزائر هي أيضا منخفضة جدا ،
الحد الأدنى الرسمي للأجر هو 100
يورو .

يمكن العثور على مصنع الانتاج ذا 16.000
متر مربع في مدينة عين البيا . تقع المدينة
بتعداد سكانها الـ 20.000 ألف نسمة لى بعد
حوالي 35 كم شرق أكبر مدن الجزائر: وهران
مع ما يقارب 1.6 مليون شخص . ميناء
ارزيو موجود مباشرة بجوار عين البيا ، هذا
هو المكان الذي تقوم فيه شركة النفط الوطنية
سوناطر بترحيل ناقلات النفط .

الى جانب ذلك ، فان المعدن اللازم لانتاج
أطباقهم يتم تصنيعه محليا . جميع هذه
الأسباب مجتمعة تشكل سببا أن تصدير أطباقه
هي خطوة جيدة للقيام بها . يقول سليمان آية
الله : " كنت للتو في معرض كانتون التجاري
جنوب الصين ووجدت أن أسعارنا منافسة " .
وهناك سبب آخر : بايا ليست شركة صغيرة ،
فهم ينتجون بعض المنتجات الأخرى وبالتالي
لديها الكثير من الخبرة كشركة مصنعة .

تأسست بايا عام 1993 . ذلك الوقت كانت
توجد شركة طومسون في فرنسا ، وبدأت بايا
عملها كخط تجميع لأجهزة تلفاز طومسون . لم
يمضي وقت طويل حتى بدأوا في تصنيع أجهزة
استقبال أقمار صناعية تناظرية تبعها بعد ذلك
بوقت قصير أجهزة استقبال رقمية . كان لدينا
في ذلك الوقت 90 موظف ، يتذكر سليمان آية
الله ، " وكان لدينا مبيعات بحوالي ثمانية مليون
يورو " . كانت بايا في قمته عام 2003 عندما



■ سليمان آية الله هو المدير العام (PDG) و مؤسس بايا . تحصل في الواقع بايا على اسمها من الموقع : عين
البيا . تحولت بيا الى بايا.



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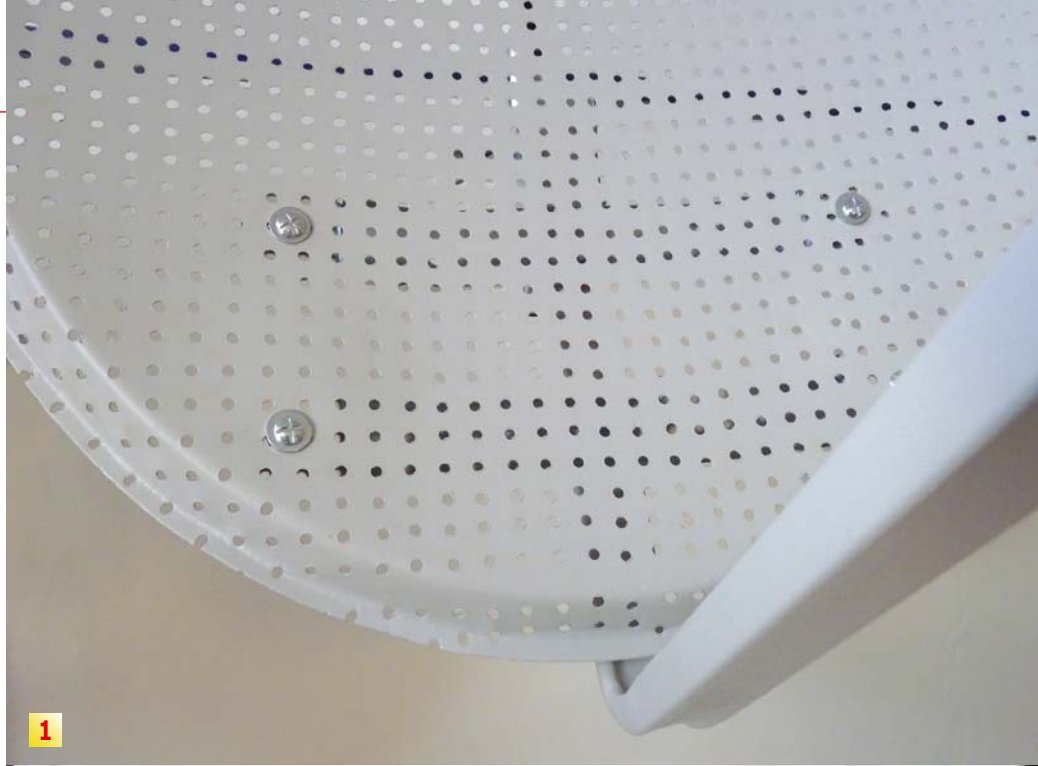
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ما تزال الشركة تنتج التلفزيونات وغيرها من
السلع المنزلية في ميتر في فرنسا . تستخدم بايا
مسمى العلامة التجارية اديسون كونتينتال في
خط انتاج الأطباق و اجهزة الاستقبال ولكن قبل
كل شيء التلفزيونات . يعطينا مدير انتاج بايا
عزالدين ماوتشي بعض المزيد من التفاصيل ،
ننتج شاشات تلفزيون كريستال سائل باحجام
32 سم و 40 سم وأيضا تلفزيونات بلازما
باحجام 42 سم ، 50 سم و 60 سم . " ويواصل
" جميع التلفزيونات مدمج بها موالف بث فيديو
رقمي أرضي DVB-T .

سوق بايا المستهدفة بعلامتها التجارية
أديسون كونتينتال هو تقريبا داخل الجزائر
بالكامل . يتم شحن 10% من منتجاتنا خارج
الجزائر ، " لقد علمنا من المدير التجاري ماهي
بوراس أن معظمها لتونس والجزائر " ، لكن هذا
من المفترض أن يتغير . سنطرح في الربع الأول
من عام 2011 جهاز استقبال جديد فائق الجودة
للتصدير وتسويقه تحت مسمى العلامة التجارية
اديسون كونتينتال ، يوضح ماهي بوراس ، والذي
يتحدث الانجليزية بطلاقة بفضل دراسته في نيو
يورك .

تقوم أيضا الحكومة الجزائرية بدورها في دعم
جهود تصدير صناعاتها المحلية . المدير العام



1



2



3





4



5

سليمان آية الله ، الذي هو عضو نشيط في عدد من اللجان وكذلك في الغرفة التجارية الجزائرية ، يتوقع هجو م تصديري واسع للعام 2011 . وقال بتفاؤل ، " نتوقع أن نكون قادرين على زيادة كبيرة في مبيعاتنا للعام 2011 . بالمنتجات الجديدة مثل الأطباق المخمرة وجهاز الاستقبال فائق الجودة الخاص بهم ، يعتقد انه توجد فرصة جيدة لبايا في أن تصبح اسم كبير خارج الجزائر مع المصطلح " صنع في الجزائر " و أن تحصل على الاعتراف الدولي .

1 - تريد بايا اقتحام سوق التصدير بهذا الطبق المخمر . نفقات انتاج بايا منخفضة جدا حيث أنها ليست قلقة بشأن المنافسة .

2 - سيكون جهاز الاستقبال فائق الجودة هذا متوفرا عام 2011 . هذا النموذج هو عينة ما قبل الانتاج . سوف يأتي مع منفذ فائق الجودة HDMI ، منفذ شبكة محلية LAN و منفذ ناقل تسلسلي عام USB و سوف يتم تجميعه بواسطة بايا بالمكونات المتلقاة و لاحقا سيتم انتاجه كليا بواسطة بايا اذا كانت المبيعات ناجحة .

3 - عز الدين موتشي هو مدير انتاج بايا .

4 - تهتم ثريا دهمان بالفواتير .

5 - ماهي بوراس هو المدير التجاري لبايا وهو مسؤول عن التسويق وقسم المبيعات .

6 - لا شيء يعمل من دون الاحتفاظ بالكتب . لودجين هادهار (يسار) و سناء اليعقوبي (يمين) يدخلون كل فاتورة .

7 - آيات علي سعيد بلقاسم هي واحدة من أربع فنيين في بايا و التي تتعامل مع خدمة وتصلح ما بعد البيع .

8 - نظرة على ورشة العمل . يتم هنا صناعة مكونات النماذج و قوالب الانتاج .



6



7



8





صنع طبق بقطر 60 سم في بايا

أخرى تنتجها بايا تشتمل على آستون ، ايكوستار و ماكسي بور وهذا لذكر البعض . اذا أردت ان تكون واحد من عملائها ، عليك الأخذ بعين الاعتبار الحد الأدنى ، يمكننا أن نضع اسمك على الأطباق بطلابية تبدأ ب 10.000 قطعة " ، يعلق مدير المبيعات ماهي بوراس " ، عليك ببساطة الاتصال بنا على contact@bya-electronic.com .

8 - المدير الميكانيكي لاهيسي ادريس راض عن الانتاج .

بعد ذلك وضع ثقوب التثبيت في المعدن .

5 - يتم بعد ذلك طلاء نماذج الأطباق المنتهية بالرذاذ. يأخذ موظف واحد الأطباق ويعلقهم على حزام ناقل وبعد ذلك يأخذهم موظف ثاني عن الحزام بعد طلاء الأطباق بالرذاذ وتجفيفها.

6 - تتحرك الأطباق عبر كشك الطلاء بالرذاذ وبعد ذلك عبر فرن .

7 - الآن يتم رسم اسم العلامة التجارية مكانه . بايا هي شركة تصنيع معدات أصلية OEM لماركات مختلفة وهنا في الصورة انها ماناتان . اسماء تجارية

1 - يتم صناعة الأطباق من شريط الصفائح الغير منتهي هذا الذي بعرض 100 سم ويسمك 0.5 مم .

الخطوة الأولى بقص قطعة صفائح معدني بالحجم المناسب لجهاز الضغط . موظفو بايا يجهزون الصفائح المعدنية

2 - ويقطعونها هنا لقطع بطول 65 سم .

3 - الآن تحتاج الى أن يتم تقصير عرضها الى 65 سم.

4 - يتم بعد ذلك ضغط صفائح الحديد التي بقطر 65 سم * 65 سم الى الشكل المناسب بألة الضغط. يتم



عمل نقطة تعليق الصدن

- 1.2 - يتم ختم وقطع القطع من صفائح معدنية لا متناهية .
- 3 - يتم هنا ختم الثقوب.
- 4 - يتم ثني القطع المعدنية السمكية الى الشكل ،وبهذا ينتهي تعليق الطبقة.
- 5 - يتم هنا ثني أقواس التعليق الى شكلها هنا .
- 6 - يقوم موظف هنا بحزم جميع أجهزة التثبيت المرفقة مع الطبقة.
- 7 - تأتي أجزاء تثبيت عشرة أطباق في صندوق واحد .

BYA
electronic

RAI Amsterdam

Conference 8-13 September : Exhibition 9-13 September



The IBC Conference

The IBC conference brings together industry experts who present, debate and learn about content related technical, business and creative issues.

Founded in 1967 the conference is well respected for its peer reviewed technical papers and conference streams guided by industry experts.

Whether it be content for broadcast, internet or mobile devices, today more than ever, the industry relies on successful interaction between technology, ideas, skills and business. Recognising this changing world of content, the IBC Conference presents a broad range of hot topic sessions across its six day, four stream, 60 session, 300 speaker event.

IBC2010 Keynote presenters included:

- **Gerhard Zeiler**, chief executive officer, RTL, Germany
- **Manolo Romero**, managing director, Olympic Broadcasting Services, Spain
- **Sir Michael Lyons**, chairman, BBC Trust, UK
- **Yoshinori Imai**, vice president, NHK, Japan
- **Ingrid Deltenre**, director general, European Broadcasting Union, Switzerland

**For more information please visit:
www.ibc.org/conference**

We look forward to meeting you in Amsterdam at IBC2011 for what is set to be another exciting event.



1



2



BYA's Production Facilities

- 1 - نظرة على منشأة الانتاج لخط انتاج أجهزة الاستقبال فائقة الجودة الخاصة بهم .
- 2 - يتم استخدام آلة تثبيت أسطح SMD من فوجي لوضع المكونات أليا على لوحات دوائر أجهزة الاستقبال فائقة الجودة .
- 3 - في الخلفية الحزام الناقل لتجميع المكونات الكبيرة و في النهاية محطة اللحام من سولتيك فيترونيكس.

3





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The Smallest Satellite Dealers in Moscow

Sergey has set up his business out in Moscow's south. The region is served by metro line 9 and as soon as you have climbed the stairs out of Prazhskaya station you're bang in the middle of a parking lot belonging to 'Electronics Paradise', the self-proclaimed 'largest shopping centre' in Moscow's south. Several hundreds of small shops are dispersed across three storeys, including some 40 dealers selling satellite components.

Sergey Kazimirovich is one of them with his TVSat-Real shop. "As a matter of fact, we're talking about two different companies here," he reveals. "Our second business is registered under the name '1000 Channels' and in addition to that we run a shop in another shopping mall as well." Incidentally, both companies have websites on the

Internet at www.tvsat-real.ru and www.1000kanalov.ru.

"Satellite receivers have been part of our range for some time now," Sergey Kazimirovich continues. "So far, however, we have only sold small numbers of them." Even though Sergey Kazimirovich features satellite receivers pro-

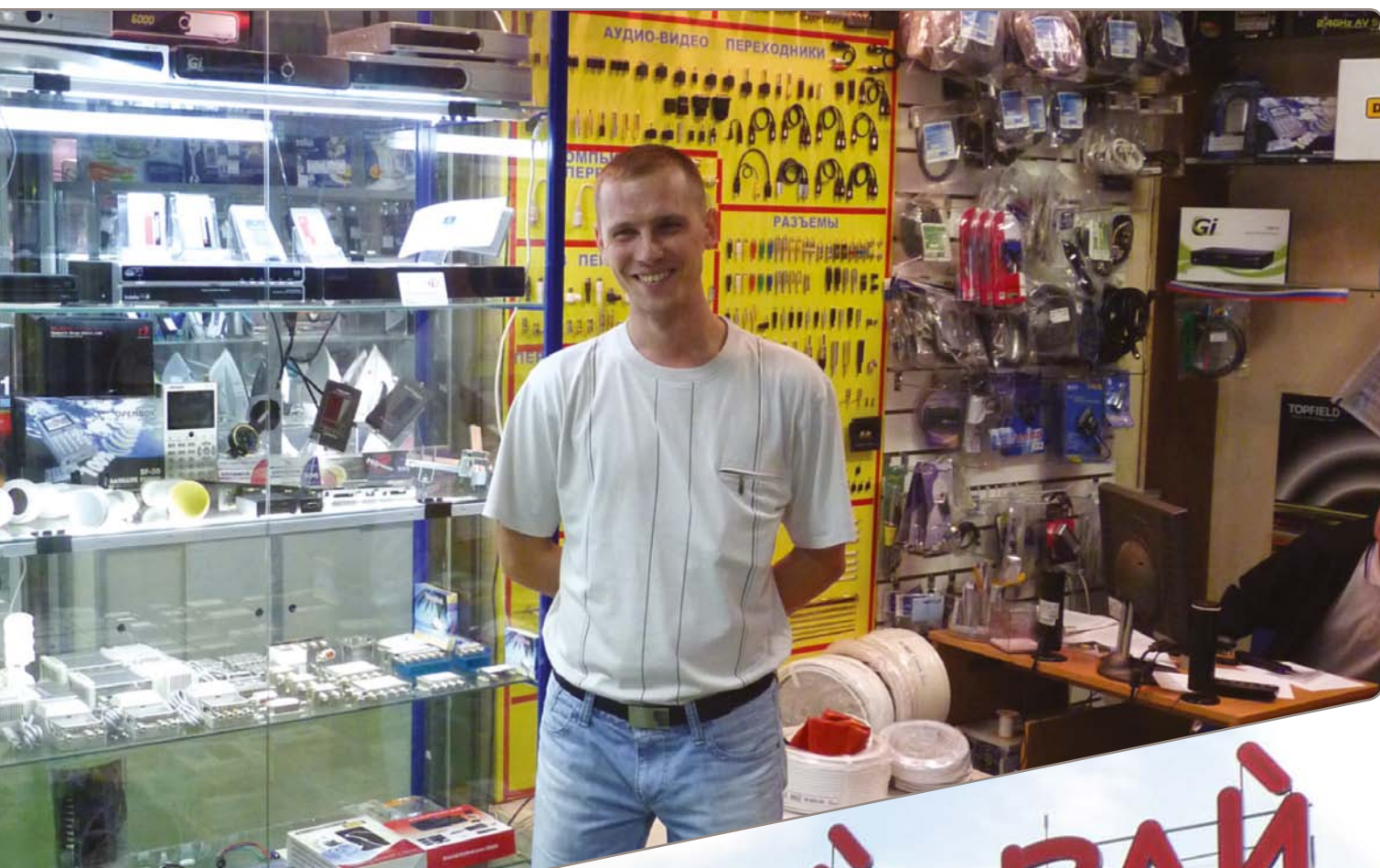
minently on his websites, he rarely sells more than one unit a week. "We believe this will change shortly, as we expect a new delivery any day."

Right now Sergey's business is one of the smallest distributors: "Satellite products only account for 2% of our turnover," Sergey states. But thanks to continuing advertising campaigns this is set to change. And who knows, one day the smallest satellite distributor might be right up there with the largest.

Sergey Kazimirovich ▶
in his small shop on the lowest floor of 'Electronics Paradise'. Together with two additional employees he sells everything to do with satellite reception.



■ Leaving Prazhskaya metro station through its southern exit you will find yourself right in the parking lot of the 'Electronics Paradise' shopping centre. Hundreds of specialised shops have all sorts of products in store for electronics and Hi-Fi enthusiasts. The centre is open every day of the week from 10 am to 8 pm.



BEST DIGITAL TV COMPANIES in EUROPE

 **DISHPOINTER**
 **HORIZON GLOBAL INVACOM**
 **EESHOP**
 **WORLDWIDE SATELLITE SMARTINNOVATIONS**
 **SEATEL**
 **CLARK SATSHOP24**
 **SATBEAMS**

SATSHOP24

Satellite Shop, Germany

COMPANY REPORT | Klaus Schulz and Bernd Rosenberger, Lüsselt, Germany

Two Satellite DIY enthusiasts

What do you need to build a satellite receiver yourself? Not much, but Klaus Schulz and Bernd Rosenberger, who live in Lüsselt, Germany, have managed to do just that. In 2008, they decided to build their own satellite receiver. They started with a small dish and a receiver, and they have since built a more sophisticated system. They have also built a website, www.satshop24.de, where they sell their products. They are currently looking for more people to join their team.

E-Commerce
Schulz & Rosenberger

TELE-satellite
Recommended

www.TELE-satellite.com/TELE-satellite-1101/eng/satshop24.pdf

SATBEAMS

Software Programming, Belgium

www.satbeams.com

SOFTWARE REPORT | Satellite Programs

Satbeams A Website for Professionals

Alexander Derjagin has set some lofty goals for himself. He is the founder and operator of the satbeams.com website. The website is a professional-looking site that provides information about satellite services. It also offers a variety of software programs for sale. The website is currently looking for more people to join their team.

TELE-satellite
Recommended

www.TELE-satellite.com/TELE-satellite-1011/eng/satbeams.pdf

SMARTINNOVATIONS

Satellite Distributor, Netherlands

COMPANY REPORT | Satellite Distributor SMART INNOVATIONS, The Netherlands

The AZBox Champions from Holland

It really helps to not only have a good product but to also have a very ambitious sales team. A perfect example of this is the company Smart Innovations in the Netherlands. The three owners of the company are very much involved with the operation and have helped make the AZBox receivers one of the top-selling brands not only in The Netherlands but also in Belgium and Luxembourg. For these three countries, Smart Innovations has taken over distribution of the AZBox.

AZBOX

TELE-satellite
Recommended

www.TELE-satellite.com/TELE-satellite-1011/eng/smartinnovations.pdf

GLOBALINVACOM

Fibre Optic Products, UK

www.globalinvacom.com

PRODUCT NEWS | Fibre Optic Products

GlobalInvacom Expands Product Palette

The British company GlobalInvacom has expanded its optical LNB, TLE-satellite receiver and other satellite products. The company is currently looking for more people to join their team.

TELE-satellite
Recommended

www.TELE-satellite.com/TELE-satellite-1009/eng/globalinvacom.pdf
www.TELE-satellite.com/TELE-satellite-1005/eng/globalinvacom.pdf
www.TELE-satellite.com/TELE-satellite-0909/eng/globalinvacom.pdf
www.TELE-satellite.com/TELE-satellite-0805/eng/globalinvacom.pdf

EESHOP

Satellite Shop, Netherlands



www.TELE-satellite.com/TELE-satellite-1005/eng/eeshop.pdf

DISHPOINTER

Software Programming, UK



www.TELE-satellite.com/TELE-satellite-0803/eng/dishpointer.pdf

WORLDWIDE SATELLITE

Satellite Shop, Netherlands



www.TELE-satellite.com/TELE-satellite-0903/eng/worldwidesatellite.pdf

SEATEL

Maritime 3-Axis Dish Manufacture, UK



www.TELE-satellite.com/TELE-satellite-0803/eng/seatel.pdf

CLARK

Distributor, Netherlands



www.TELE-satellite.com/TELE-satellite-0811/eng/clark.pdf

HORIZON

Manufacturer of Measuring Instruments, UK



www.TELE-satellite.com/TELE-satellite-0801/eng/horizon.pdf
www.TELE-satellite.com/TELE-satellite-0701/eng/horizon.pdf

BEST DIGITAL TV COMPANIES in EUROPE



DOEBIS

Satellite Wholesaler, Germany



www.doebis.de

COMPANY REPORT | Satellite Wholesaler DOEBIS, Germany

DOEBIS is Expanding

Exactly three years ago TELE-satellite published a report on DOEBIS, a satellite wholesaler in Germany. We thought it was a good time to ask DOEBIS how they withstood the all-around crisis. We received a rather surprising answer: "We're expanding!" says Eberhard Bering, Operations Manager at DOEBIS. The company used the economic crisis that took hold in 2008 and instead of scaling back they opted for a counter strategy: they used the opportunity to invest and primarily expanded their sales force.

www.TELE-satellite.com/TELE-satellite-1011/eng/doebis.pdf

SMARTWI

Wireless Card Reader Producer, Denmark



www.smartwi.net

COMPANY REPORT | Wireless Card Reader Producer SmartWi

SmartWi to Conquer Provider Market

Readers of this magazine have been familiar with wireless card reader manufacturer SmartWi for years. In TELE-satellite issue 06-07/2007 we published the first report on this Danish company which has come up with a genuine idea: how about transmitting data from a pay-TV provider's subscription card to a second card in the same household? All of a sudden, your viewing pleasure can be extended from the living room all the way to the bedroom, den or any other room at your place. Pay TV whenever you like – and a smart idea for their discoverer a proper name like smart WiTV, or SmartWi in short.

www.TELE-satellite.com/TELE-satellite-1011/eng/smartwi.pdf
www.TELE-satellite.com/TELE-satellite-0709/eng/smartwi.pdf

SPAUN POWER

Power Supply Manufacturer, Germany



www.spaun.com

COMPANY REPORT | Power Supply Unit Manufacturer

Power Supply Units Made by SPAUN – guaranteed!

Every multi-switch and every amplifier comes with one, and of course every receiver has one, too: a power supply unit that is required to connect the device to the mains. It has become such an everyday component of virtually any electronic device that we have stopped thinking about how it actually works. SPAUN, on the other hand, has given it a great deal of thought and has arrived at a remarkable conclusion: Koini Spaun is the managing director of SPAUN, one of the most renowned quality manufacturers of multi-switches and other accessories for satellite signal distribution. He tells us what it's all about.

www.TELE-satellite.com/TELE-satellite-1011/eng/spaun.pdf

GOLDEN MEDIA

Manufacturer and Distributor, Germany



www.cynextra.com

COMPANY REPORT | Manufacturer and Distributor Golden Media, Germany

New On The Market: Golden Media

As part of the media world, Golden Media is a young company, a young company in Germany. It was only first founded in September 2007 and has had astonishing growth since then. We wanted to find out the secret to their quick success.

www.TELE-satellite.com/TELE-satellite-1009/eng/goldenmedia.pdf

MEDIA BROADCAST

Broadcasting Services, Germany

STATION REPORT | Earth Station Usingen, Germany

Satellite Reception with a 19 Metre Dish

30 Years of Satellite Reception and Uplink in Usingen near Frankfurt

In an age of ever decreasing antenna sizes and only very few satellite dishes using large dishes it's a welcome change to explore really huge antennas. These can only be found in professional settings, of course, and in particular where TV channels are beamed up to a satellite of satellite earth stations. One of Europe's top 3 stations is located close to the small town of Usingen, not far from Frankfurt in Germany.

TELE-satellite World | www.tele-satellite.com

www.TELE-satellite.com/TELE-satellite-1009/eng/mediabroadcast.pdf

SPAUN

High Quality Accessory Manufacturer, Germany



www.spaun.com

COMPANY REPORT | High Quality Accessory Manufacturer

Spaun at 40 years

Moving into the new decade with many new products

Alexander Wies

Well, actually, Spaun isn't quite 40 years old. The company began its life in 1974, when Alexander Wies and his brother-in-law, Hans-Joachim Wies, founded the company. They started with a small workshop in the town of Spaun, Germany, and have since grown into a large company with many new products.

TELE-satellite World | www.tele-satellite.com

www.TELE-satellite.com/TELE-satellite-0811/eng/spaun.pdf

SMART

Receiver Manufacturer, Germany

COMPANY REPORT | Receiver Manufacturer Smart

Being 'SMART' in Germany's Black Forest

When you hold this issue of TELE-satellite in your hands the company Smart Receiver will only have been in existence for less than a year. It's relatively new to the world of satellite receivers, but it's already making a name for itself. Smart Receiver is a very young company, but it's already making a name for itself. Smart Receiver is a very young company, but it's already making a name for itself.

TELE-satellite World | www.tele-satellite.com

www.TELE-satellite.com/TELE-satellite-0901/eng/smart.pdf

GT SAT

LNB Distributor, Luxembourg

COMPANY REPORT | LNB Distributor GT SAT

GT-SAT

GT-SAT is a company in Luxembourg that specializes in the distribution of LNBs (Low Noise Block) for satellite receivers. They have a long history in the industry and are known for their high quality products.

TELE-satellite World | www.tele-satellite.com

www.TELE-satellite.com/TELE-satellite-0805/eng/gtsat.pdf

NANOXX

Wholesaler and Receiver Manufacturer, Germany

COMPANY REPORT | Wholesaler and Receiver Manufacturer Nanoxx

Two X's Mark the Spot in Frankfurt

NANOXX

The trademark of the receiver manufacturer's Nanoxx product are the two X's. These two X's also appear in the Nanoxx company name. We wanted to find out about the secret of the two X's. We found Max Hofbauer in the small town of Lendebach north of Frankfurt, Germany. He is the founder and president of Nanoxx and chose the name Nanoxx for his line of receivers. It's actually a clever name in that the two large X's truly stand out.

TELE-satellite World | www.tele-satellite.com

www.TELE-satellite.com/TELE-satellite-0901/eng/nanoxx.pdf

TECHNISAT

TV Manufacturer, Germany

COMPANY REPORT | Technisat Televisual AG

TV Made in Germany

Alexander Wies

There are only a few TV manufacturers left in Germany. One of them is Technisat Televisual AG. They have a long history in the industry and are known for their high quality products.

TELE-satellite World | www.tele-satellite.com

www.TELE-satellite.com/TELE-satellite-0709/eng/technisat.pdf



BEST DIGITAL TV COMPANIES in S/E EUROPE

AMIKO

Receiver Manufacturer, Hungary



www.amikostb.com

Company Details

Engineers in Research & Development | Total Number of Employees

0 50 100

Average Turnover (Previous, This, Next Year Estimates)

0 10 20 Mio €uro

Production Certificates

ISO, RoHS, DVB

Production Categories

own brands AMIKO, SYNAPS - cooperation with FULAN

Main Products

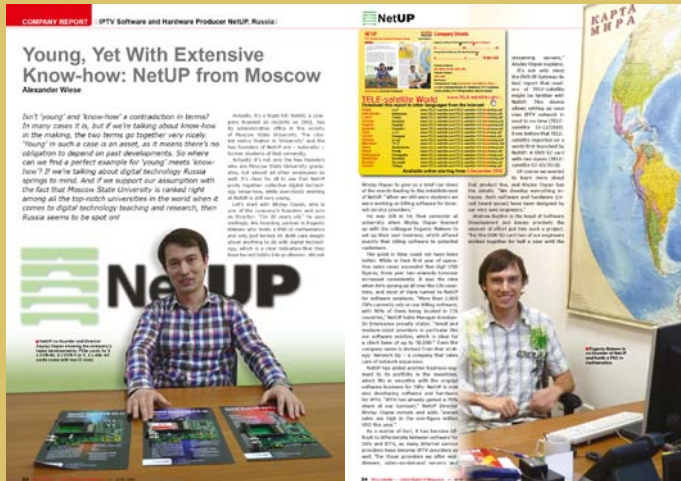
Receiver for DVB-S/S2, DVB-T/MPEG-4, DVB-C, award winning product Dual Boot Linux receiver for DVB-S/S2 and DVB-T



www.TELE-satellite.com/TELE-satellite-1107/eng/amiko.pdf

NETUP

IPTV Software and Hardware Producer, Russia



www.TELE-satellite.com/TELE-satellite-1101/eng/netup.pdf

AB-COM

Satellite Receiver Manufacturer, Slovakia



www.abcomeu.com



www.TELE-satellite.com/TELE-satellite-1009/eng/abipbox.pdf

BEST DIGITAL TV COMPANIES in MIDDLE EAST

YAHYA

ATLANTA
COMINTOUCH
ECHOLINK

ATLANTA

Satellite Wholesaler, UAE

COMPANY REPORT | Satellite Wholesaler: ATLANTA, Dubai

SmartWi Distributor ATLANTA in Dubai

This report was written because of SmartWi, the Card Sharing Module that lets you watch every channel in every room in your house using just one PayTV card. SmartWi in Denmark distributes their products all over the world and this includes The Middle East. SmartWi's ever increasing sales figures in this region are due in large part to the non-stop efforts of local distributor ATLANTA headquartered in Sharjah in the United Arab Emirates.

While having lived as an expatriate in Sharjah for the last 10 years, I have seen the growth of ATLANTA from a small start-up to a major player in the satellite TV market. ATLANTA has a wide range of products, including SmartWi, SkyLink, and many others. They have a strong reputation for customer service and quality products. ATLANTA is a leading distributor of satellite TV equipment in the Middle East.

ATLANTA is a leading distributor of satellite TV equipment in the Middle East. They have a strong reputation for customer service and quality products. ATLANTA is a leading distributor of satellite TV equipment in the Middle East.

www.TELE-satellite.com/TELE-satellite-1007/eng/atlanta.pdf

ECHOLINK

Satellite Wholesaler, UAE

COMPANY REPORT | Satellite Wholesaler: ECHOLINK, Dubai

TRIMAX Distributor ECHOLINK in Dubai

One of the largest satellite wholesalers in the Middle East is ECHOLINK. The company has four stores in Dubai's Satellite Souk. There is one half store you'll find an endless variety of satellite shops right on top of the next one. The local market in Dubai isn't off their big so most of the buyers in Dubai's Satellite Souk are dealers from the surrounding Middle Eastern and North African countries – now referred to as MENA (Middle East, North Africa).

At ECHOLINK, the General Manager, Mr. ECHOLINK, has a wide range of products, including TRIMAX, and many others. They have a strong reputation for customer service and quality products. ECHOLINK is a leading distributor of satellite TV equipment in the Middle East.

ECHOLINK is a leading distributor of satellite TV equipment in the Middle East. They have a strong reputation for customer service and quality products. ECHOLINK is a leading distributor of satellite TV equipment in the Middle East.

www.TELE-satellite.com/TELE-satellite-1007/eng/echolink.pdf

COMINTOUCH

Satellite Wholesaler, UAE

COMPANY REPORT | Satellite Wholesaler: COMINTOUCH, Dubai

SPAUN at COMINTOUCH in Dubai

spaun founded the most complete in the Middle East and has more than 1000 employees. They have a strong reputation for customer service and quality products. COMINTOUCH is a leading distributor of satellite TV equipment in the Middle East.

COMINTOUCH is a leading distributor of satellite TV equipment in the Middle East. They have a strong reputation for customer service and quality products. COMINTOUCH is a leading distributor of satellite TV equipment in the Middle East.

www.TELE-satellite.com/TELE-satellite-1007/eng/comintouch.pdf

YAHYA

Software Programming, KSA

COMPANY REPORT | Software Programmer: YAHYA, Saudi Arabia

Enigma in Arabic – How does it work? Paying a visit to Yahya in Saudi Arabia

When you switch on a receiver for the very first time you are usually asked which language you prefer. English, German or French are obvious choices. But what about Russian or... Arabic? From a technical point of view translating one language into another is no big deal, but while most languages are written from left to right, Arabic is written from right to left and so the problems begin. We set off to meet Yahya and to learn how these problems can be solved. He lives somewhere in Saudi Arabia and would rather not have his last name published because what he does is considered a grey area by some, even though it's not against the law.

Yahya is a software programmer in Saudi Arabia. He has a strong reputation for customer service and quality products. YAHYA is a leading distributor of satellite TV equipment in the Middle East.

www.TELE-satellite.com/TELE-satellite-0911/eng/yahya.pdf



BEST DIGITAL TV COMPANIES in MAGHREB

BYA

Dish and Receiver Manufacturer, Algeria



COMPANY REPORT | Dish and Receiver Manufacturer BYA, Algeria

Perforated Dishes from Algeria
Alexander Wines

With a new series of satellite dishes made out of perforated metal, Algerian manufacturer BYA Electronic wants to start an export offensive. Are there reasons to expect success in the strongly contested satellite dish market? It won't be easy for BYA, but there are several reasons which would make the optimistic. Slimane Ali Nila, founder of BYA, gives us the reasons for this optimism.

TELE-satellite Award 2011/2012

BYA ELECTRONIC

www.TELE-satellite.com/TELE-satellite-1107/eng/bya.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 75 150

Average Turnover (Previous, This, Next Year Estimates)

0 5 10 Mio €

Production Certificates

RoHS, DVB

Production Categories

OEM, ODM

Main Products

Satellite Dishes with Full and Perforated Metal (60, 105 and 120cm), TV-Sets with CRT, LCD (32 and 40 inch) or Plasma (42 and 50 inch), Satellite Receiver for DVB-S/S2

BOMARE

TV and Receiver Manufacturer, Algeria



COMPANY REPORT | TV-Sets and Receiver Manufacturer Bomare, Algeria

Bomare: a new OEM Manufacturer

In 2009 the European Union entered into an agreement with the Democratic Peoples Republic of Algeria to support economic cooperation between the two. This agreement provides an interesting opportunity for satellite receiver manufacturers and, in the case of the Algerian company Bomare, also for TV manufacturers. Actually Bomare produces both products. For 2011 Bomare has decided to take their products and service capabilities to the European market. We paid a visit to Bomare's production facility in Birtoula, about 20km from Algiers, and had a look around.

Stream

BOMARE COMPANY

www.TELE-satellite.com/TELE-satellite-1103/eng/bomare.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 75 150

Average Turnover (Previous, This, Next Year Estimates)

0 12.5 25 Mio €

Production Certificates

RoHS, DVB

Production Categories

OEM, ODM

Main Products

LCD and Plasma TV-Sets with integrated DVB-Tuner, Satellite Receiver for DVB-S/S2, DVB-T, Home Theatre Systems



 TEVII
 **AZURESHINE**
 **MOTTECK**

PC Card & Receiver Manufacturer, Taiwan



Company Details

Engineers in Research & Development | Total Number of Employees



Average Turnover (Previous, This, Next Year Estimates)



Production Certificates

RoHS

Production Categories

OEM, ODM

Main Products

PC Cards for DVB-S/S2 and DVB-T/MPEG-4, Boxes for DVB-S/S2, DVB-T/MPEG-4, PC Sticks for DVB-S/S2

www.TELE-satellite.com/TELE-satellite-1101/eng/tevii.pdf

AZURESHINE

Professional Dish Manufacturer, Taiwan



MOTECK

Antenna Motor Manufacturer, Taiwan



COMPANY REPORT | Satellite Dish Manufacturer Azura Shines

Dishes in Focus



www.TELE-satellite.com/TELE-satellite-0707/eng/azureshine.pdf

MOTECK's Motor Professionals



www.TELE-satellite.com/TELE-satellite-0707/enq/moteck.pdf

TOPFIELD

High-End Receiver Manufacturer, Korea



www.TELE-satellite.com/TELE-satellite-0905/eng/topfield.pdf
www.TELE-satellite.com/TELE-satellite-0801/eng/topfield.pdf

YONGSAN

Satellite Shop, Korea



www.TELE-satellite.com/TELE-satellite-0807/eng/koreasatshop.pdf

ARION

High Quality Receiver Manufacturer, Korea



www.TELE-satellite.com/TELE-satellite-0903/eng/arion.pdf
www.TELE-satellite.com/TELE-satellite-0801/eng/arion.pdf
www.TELE-satellite.com/TELE-satellite-0701/eng/arion.pdf

NASA CNS

Satellite Wholesaler, Korea



www.TELE-satellite.com/TELE-satellite-0805/eng/nasacns.pdf

OPERATOR MARKET Qualified

Classification for Best Digital TV Companies



Attributes of Qualified Company:

- High Production Volume ■ Quality Controlled
- Customized Product Case ■ Customized Product Software
- Aftersale Service

SEKISAT

Satellite Wholesaler, Korea



www.TELE-satellite.com/TELE-satellite-0801/eng/sekisat.pdf



BEST DIGITAL TV COMPANIES in CHINA

DEVISER

Signal Analyzer Manufacturer, China



www.devisertek.com



www.TELE-satellite.com/TELE-satellite-1107/eng/deviser.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 250 500

Average Turnover (Previous, This, Next Year Estimates)

0 12.5 25 Mio US\$

Production Certificates

RoHS, CE, UL, ISO 10012, ISO 90001

Production Categories

OEM, own brand

Main Products

Signal Analyzers for Cable, Terrestrial, Telecommunications, Fiber Optic and Satellite, Spektrum Analyzers, Vector Network Analyzers, Broadcasting Measurement Instruments, QAM Meters

PREVAIL

Fiber Optic and CATV Manufacturer, China



www.prevail-catv.com



www.TELE-satellite.com/TELE-satellite-1105/eng/prevail.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 250 500

Average Turnover (Previous, This, Next Year Estimates)

0 12.5 25 Mio €uro

Production Certificates

RoHS

Production Categories

OEM

Main Products

Fiber Optic Nodes and Systems, Optical Receivers and Transmitters, CATV Equipment, Bi-directional Network Transmission Equipment, Head-Ends, Splitters, Taps

JIUZHOU

Receiver Manufacturer, China



www.jiuzhou.com.cn

COMPANY REPORT | CITI at Jiuzhou, China

Terrestrial Receivers at Jiuzhou

Our readers are very familiar with Jiuzhou - have a look at TELE-satellite issue 30-35/2007. In 2008 Jiuzhou celebrated their 50th birthday and moved to their new Jiuzhou Electric Building. The TELE-satellite issue 40-45/2008. In September 2008, when the Shenzhen Metro Line 1 was extended, Jiuzhou became close to a Metro station, 27.5 km. And minute walk to the station which has a nice and fitting name: "TV Tech Park".



TELE-satellite World - monthly magazine

www.TELE-satellite.com/TELE-satellite-1003/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0903/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0803/eng/jiuzhou.pdf
www.TELE-satellite.com/TELE-satellite-0703/eng/jiuzhou.pdf

SVEC

Professional Dish Manufacturer, China



www.svec.com.cn

COMPANY REPORT | Professional Dish Manufacturer SVEC, China

SVEC Dishes from Chengdu/Sichuan

Alexander Wieser

The Sichuan province is well known outside of China for its spicy cuisine. A national favorite is the "Hot Pot". In one pot with two separated sections a very spicy soup and a mild soup are heated up into which chopsticks are used to dunk in different types of food for a few minutes. This could be many sliced pieces of meat or vegetables. Along with that you drink sweetened living La Kat herbal tea to offset the spiciness of the hot pot. The company SVEC in Sichuan's capital city of Chengdu, a city with eight million inhabitants in southwestern China, has its own spicy menu. SVEC is looking for new challenges adding to their production of satellite dishes: they want to play a much bigger role in the world market with high quality products.



TELE-satellite World - monthly magazine

www.TELE-satellite.com/TELE-satellite-1003/eng/svec.pdf

BOXSAM

Receiver Manufacturer, China



www.boxsam.com

COMPANY REPORT | Digital TV Receiver Manufacturer BOXSAM, China

Receivers made by BOXSAM

BOXSAM can easily be considered an upstart company as it was founded only in 2002 with a seed capital of 15 million RMB. Starting with CATV products BOXSAM expanded its business to cover satellite receivers and some other interesting products as well as in 2004. The past year to this company to learn about their way of doing business.



TELE-satellite World - monthly magazine

www.TELE-satellite.com/TELE-satellite-1009/eng/boxsam.pdf

ALUOSAT

Satellite Consultant, China




www.aluosat.com

COMPANY REPORT | Satellite Consultant, China

Aluo-sat Knows Everybody!

Somebody active in the satellite field in China can hardly get around knowing Liu Shi Gang, owner or at least not because he's been distributing TELE-satellite in China for many years, but also because he is a high profile figure in many other satellite areas as well. Since China is entering the 21st age in 2009 this is a good time for visiting Liu Shi Gang in his office in Shenzhen.



TELE-satellite World - monthly magazine

www.TELE-satellite.com/TELE-satellite-0905/eng/aluosat.pdf

YINHE

High Volume Receiver Manufacturer, China

COMPANY REPORT | High Volume Digital TV Receiver Manufacturer YINHE, China

Organized for the Future

Receiver Manufacturer YINHE Presents Their Factory

Alexander Wieser

Chinese high volume manufacturer YINHE is one of the top five producers in China. Although this company is well known within China, it is only the readers that recognize the name YINHE outside the country since abroad it is only an OEM. In other words, the YINHE designed boxes (Original Design) are marketed by other companies, primarily dealers and programming operators, under their own brand name. YINHE therefore is just the manufacturer (since OEM) and for the time being it will stay that way. There are no plans for YINHE to dive into the export market with their own brand name. What does it look like inside one of these high volume manufacturing plants? TELE-satellite wanted to find out.



TELE-satellite World - monthly magazine

www.TELE-satellite.com/TELE-satellite-1007/eng/yinhe.pdf

OPERATOR MARKET Qualified

Classification for Best Digital TV Companies



Attributes of Qualified Company:

- High Production Volume
- Quality Controlled
- Customized Product Case
- Customized Product Software
- Aftersale Service



Operator Market Qualified

BOINGSAT

LNB Manufacturer, China



www.boingsat.com

COMPANY REPORT LNB Manufacturer Boingsat, China

Boingsat's Numerous Production Facilities

- Three Production Locations in Zhuhai, China
- Large Sales Expansion in South America
- In the Works: LNB with Two Feed Rings

Boingsat's numerous production facilities are located in Zhuhai, China. The company has a long history of manufacturing LNBs and has a strong reputation for quality and reliability. The company's products are used in a wide range of applications, including satellite TV, radio, and data transmission. The company's facilities are equipped with state-of-the-art equipment and staffed by experienced technicians. The company's products are sold in over 100 countries and are used by millions of people around the world.

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www.TELE-satellite.com/TELE-satellite-1105/eng/boingsat.pdf

TENOW

PC Card Manufacturer, China



www.tenower.com

COMPANY REPORT PC Card Manufacturer Tenow, China

Innovative PC Cards from China

Tenow is a company that is fully concentrated on the development of their products in the young firm Tenow from Shenzhen, China. PC cards are manufactured through the actual production process in subordinated allowing Tenow to focus their efforts on Development and Marketing. Also interesting to note about Tenow, the company is run by four partners and all four of them work together as a team to further expand their young company. Tenow is in the process of setting up a new office in Shenzhen's expensive High-Tech Park. When we said them a visit, we went to their old office located directly next to the Shen Dan Metro Station on route 1.

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www.TELE-satellite.com/TELE-satellite-1103/eng/tenow.pdf

SKYWORTH

OEM Receiver Manufacturer, China



www.skyworth.com

COMPANY REPORT Receiver Manufacturer SKYWORTH, China

SKYWORTH is Expanding

One of the larger receiver manufacturers in China is SKYWORTH. They've consistently been in expansion mode and have managed to make a phenomenal entrance into the South American marketplace in 2010 in a large contract with the government of Argentina involving 400,000 receivers for the terrestrial ISDB-T standard resulted in SKYWORTH's intense production activity. 500 these receivers have already been shipped? we learn from Jack Jiang, Sales Director of SKYWORTH's receiver division. The company's official name is Shenzhen SKYWORTH Digital Technology Co., Ltd.

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www.TELE-satellite.com/TELE-satellite-1103/eng/skyworth.pdf
 www.TELE-satellite.com/TELE-satellite-1003/eng/skyworth.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 500 1000

Average Turnover (Previous, This, Next Year Estimates)

0 12.5 25 Mio US\$

Production Certificates

RoHS in preparation

Main Products

LNBs for Ku and C bands, Ka band in preparation. Variants in Single, Twin, Quad, Quattro and Octo.

Company Details

Engineers in Research & Development | Total Number of Employees

0 12 25

Average Turnover (Previous, This, Next Year Estimates)

0 1.5 3 Mio €uro

Production Certificates

RoHS, DVB

Main Products

PC-Cards for DVB-S/S2, DVB-T/T2, DVB-C with single, dual and quad tuner, CAM Box for DVB-S2, USB-Stick for DVB-S/S2, DVB-C and ISDB-T

Company Details

Engineers in Research & Development | Total Number of Employees

0 1250 2500

Average Turnover (Previous, This, Next Year Estimates)

0 1.250 250 Mio US\$

Production Certificates

RoHS, CE, REACH, DVB

Main Products

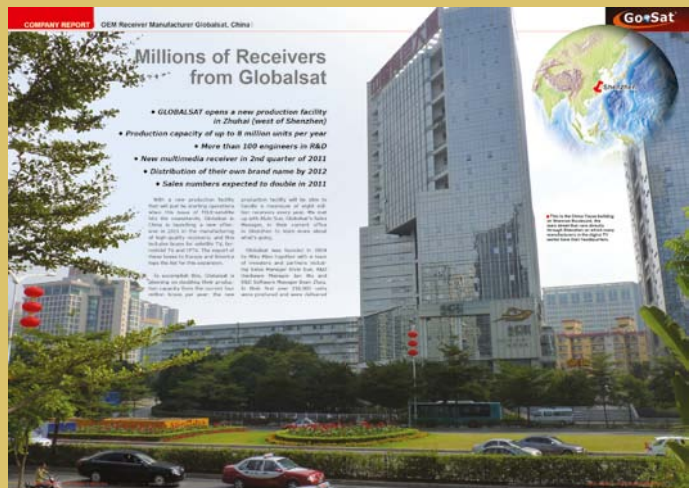
Receiver for DVB-S/S2, DVB-T, ISDB-T with single, twin and combo tuner, Receiver Sticks for USB, SCART in DVB-S and HDMI in DVB-S2

GLOBALSAT

Receiver Mass Manufacturer, China



www.globalsatdvb.com



www.TELE-satellite.com/TELE-satellite-1103/eng/globalsat.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 125 250

Average Turnover (Previous, This, Next Year Estimates)

0 75 150 Mio US\$

Production Certificates

RoHS, FCC, UL, CE, DVB, ISO

Main Products

Receiver for HDTV and SDTV in DVB-S/S2, DVB-T, DVB-C, ISDB-T, HD+, CI+ and HbbTV, Multimedia Receiver, IPTV Boxes, Media Player

TRIMAX

Signal Analyzer Manufacturer, China



www.trimaxtec.com



www.TELE-satellite.com/TELE-satellite-1103/eng/trimax.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 25 50

Average Turnover (Previous, This, Next Year Estimates)

0 1 2 Mio US\$

Production Certificates

RoHS, FCC, DVB

Main Products

Signal Analyzer with built-in Monitor for DVB-S/S2, DVB-T and DVB-C

SOWELL

OEM Receiver Manufacturer, China



www.sowell-tech.com



www.TELE-satellite.com/TELE-satellite-1103/eng/sowell.pdf

Company Details

Engineers in Research & Development | Total Number of Employees

0 50 100

Average Turnover (Previous, This, Next Year Estimates)

0 25 50 Mio US\$

Production Certificates

DVB

Main Products

Receiver for DVB-S/S2, DVB-T/T2, DVB-C and ISDB-T, Receivers with 3D graphics



Satellite Dealer, USA



Satellite Dealer, USA



Satellite Dealer, USA



Maritime 3-Axis Dish Manufacturer, USA



Satellite Wholesaler, Canada

COMPANY REPORT | North American Satellite Wholesaler

Worldwide Satellites in Toronto

Satellite business in a franchise system. This is the concept that Nuk Aquino from Worldwide Satellites in Toronto, Canada follows. Satellite business based on a franchise system? What exactly does this mean? We wanted to know so we made our way to Mississauga. This city is right next to Toronto and is also the home of Toronto's Pearson International Airport.



www.TELE-satellite.com/TELE-satellite-0905/eng/worldwidesatellites.pdf

SADOUN

Satellite Dealer, USA

COMPANY REPORT | Satellite Dealer Sadoun

Into the Satellite Future at High Speed



www.TELE-satellite.com/TELE-satellite-0707/eng/sadoun.pdf

SONICVIEW

Satellite Receiver Manufacturer, USA

COMPANY REPORT | Satellite Receiver Manufacturer |

Millionaire in 4 Years –
Maybe Even 3!
SonicView, USA



www.TELE-satellite.com/TELE-satellite-0903/eng/sonicview.pdf

SATMAN

Satellite Dealer, Canada

COUNTRY REPORT | Canada

Satellite Business in Winnipeg, Manitoba



www.TELE-satellite.com/TELE-satellite-0705/eng/satman.pdf

MFC

Satellite Filter Manufacturer, USA

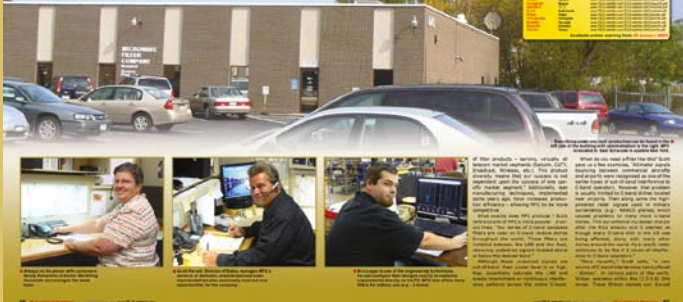


www.microwavefilter.com

COMPANY REPORT | Satellite Filter Manufacturer, USA |

Microwave Filter Company
High Quality Specialized Filters
Made in USA

Satellite systems receive not only the TV, radio and data channels that you actually want, but also unwanted signals that may cause interference. How do you get rid of these interfering signals? HFC, a manufacturing pioneer of satellite filters based in the USA, produces a variety of filters that eliminate such interference.



www.TELE-satellite.com/TELE-satellite-0903/eng/mfc.pdf

FORTECSTAR

Receiver Manufacturer, Canada

COMPANY REPORT | Receiver Manufacturer Partec Comm

From Dealer to Producer



www.TELE-satellite.com/TELE-satellite-0705/eng/fortecstar.pdf



HDTV Encryption

- *prevents unauthorised distribution of HDTV content*
 - *gives TV providers full control over content*
 - *blocks many popular features – such as time-shift viewing and PVR functions – for customers*
-

HD

+

by ASTRA



CI+ / HD+

What's the big deal? Is there a hidden agenda? What's the difference between the two?

Thomas Haring

Is CI+ a 'must have' for new receivers? This is a question that bothers end users and manufacturers alike, even though for different reasons. Users want to know whether or not it makes sense to go out and purchase one of the new CI+ models on shelves everywhere, while for manufacturers it all boils down to simple maths: Can I make money with CI+ receivers?

The CI+ initiative is driven by content providers. Film studios and TV channels have been faced with illegal content distribution (unauthorised DVD copying, illegal pay TV reception, etc.) for some time, as well as with gradually eroding advertising revenue. The advent of PVR receivers further accelerated that trend as these devices allow lossless storing of content on internal or external storage media. Content can then easily be burnt on DVD, for example.

What's more, PVR receivers usually come with a time-shift viewing feature which in turn means commercial breaks can be conveniently skipped.

It goes without saying that many end users actually use those features, burn their own DVDs and pass them on to others – a fact that truly annoys copyright owners who in turn exert pressure on content providers.

Content providers are also faced with pressure from their advertising clients who argue that owners of PVR receivers have become a virtually irrelevant target group. So all players on the providing end of the chain agreed on one thing: Something had to change! The introduction of HDTV channels presented the perfect occasion to act.

CI+

When digital television via satellite, cable and antenna (DVB-S, DVB-C and DVB-T) was launched the DVB Consortium (an association of more than 270 channels, manufacturers, pay TV providers and representatives from industry) at the same time introduced the CI standard. It takes care of copyright protection (rights management) and makes

sure paid for content is decrypted at the customer's end.

A so-called CI module (a PCMCIA module as we know it from the PC world) is used in combination with a valid smartcard to decrypt the digital stream received via satellite, cable or antenna. The CI module needs to be inserted into the receiver's CI slot and – together with a smartcard issued by the content provider – becomes the access point for pay TV reception.

With a valid smartcard and a CI module that is compatible with the encryption system implemented by the provider, pay TV content is encrypted and appears on the screen of authorised subscribers. If one of these conditions is not met, however, all you see is a blank screen. There are no further control mechanisms in place for pay TV providers with the conventional CI standard.

The DVB Consortium has been working on a revised CI version for years to offer new and more restrictive control mechanisms for pay TV providers – the name they chose was CI 2.0, but the project got stuck on a treadmill and some providers as well as industry representatives finally took a decision to develop their own system: This is how the CI+ standard came about with CAM manufacturers Neotion and SmarDTV as well as electronics giants Panasonic, Philips, Samsung and Sony being the driving forces behind that move.

What's new with CI+? What are the benefits and drawbacks for end users?

Let's begin with a positive note: CI+ is fully based on the CI standard, which means it does not establish a new standard but rather adds features to an existing one. Those extra features, on the



■ User features such as PVR functionality may be temporary or permanently blocked by the CI+ standard.

PAINT A BRIGHTER FUTURE



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other hand, include numerous restrictions for users.

The whole sphere of encryption was left untouched, but with CI+ so-called usage rule information (URI) can be added to the DVB-S, DVB-C or DVB-T datastream. CI+ receivers are able (more precisely: must be able) to recognise URI and follow its rules accordingly. The following restrictions can be imposed with CI+:

- digital recording of received content can be totally restricted
- digital recording of received content can be partially restricted (restrictions for certain events, channels, etc.)
- rewinding and fast forwarding of recorded content can be restricted during playback
- time-shift viewing can be restricted
- the Macrovision copy protection signal can be activated at the eurocart output of the receiver
- recorded content can be paired to a receiver so that it can only be played back on that particular device
- content providers are able to put receivers out of operation after unauthorised changes to the operating system have been made by a user
- CI+ invariably decrypts only one event at a time – it is not possible to decrypt two events simultaneously
- HD content can only be put out to HDCP compatible devices

as well as the following most significant modifications:

- the datastream as received from the provider is decrypted by the CI+ module, but encrypted again immediately so that the data transmitted through a USB, Firewire or any other data interface is encrypted and therefore cannot be saved on DVD, for example.

How should end users react to CI+?

First and foremost the question is one of personal necessity. You don't receive pay TV or HDTV and have no intention of subscribing in future? In that case

you couldn't care less about CI+. Content that is currently free-to-air will most probably stay that way. Hardly a channel could afford changing completely from FTA to CI+ without causing uproar.

It can be assumed that SD offerings will stay unencrypted, while new HD channels will happily implement the CI+ standard. So even if you are perfectly satisfied with your personal status quo, you may want to upgrade your equipment to HD standard in future, which is when you might be faced with CI+.

Subscribers of pay TV need not waste too many thoughts on CI+, since they use provider-supplied set-top boxes in most cases anyway.

Is an 'old' CI receiver compatible with CI+? Is there any point in buying a non-CI+ receiver anymore?

As mentioned above, CI+ is based on the conventional CI standard, which is why chances are many CI receivers can be upgraded to CI+ compatibility with new software. Some manufacturers even provide firmware updates to add CI+ to their receivers.

We should not fail to emphasise that CI+ has absolutely nothing to do with the encryption of the DVB datastream. Providers may select an encryption system of their choosing irrespective of whether or not they implement CI+. The same is true for DVB-S2, DVB-C2 or DVB-T2, all of which are independent of any CI+ features. This means that a CI+ receiver can handle all DVB formats depending on the built-in tuner(s).

So what's the connection with HD+?

HD+ is a subsidiary of European satellite operator SES Astra and focuses on marketing high-definition TV. The company is currently active only in Germany and is the legal successor of the

failed Entavio project, which had been launched initially by SES Astra as a new TV platform.

At the moment, the HD+ platform carries the HD channels of major German commercial networks (RTL HD, RTL II HD, VOX HD, Pro7 HD, Sat.1 HD, Kabel1 HD) as well as special interest channels six HD and Sport1 HD. Austria and Switzerland are next on the expansion map of HD+ and will be covered shortly, while in future SES Astra hopes to offer HD+ in other countries as well. From a technical perspective, HD+ is mainly based on dedicated HD+ receivers with built-in smartcard reader. HD receivers that are compatible with CI+, may also be used for receiving HD+ channels.

CI+ and HD+ are frequently mentioned in the same breath, even though all they really share is the + symbol in their names. What is true, however, is the fact that HD+ was one of the first major platforms to use CI+. However, features such as automatic channel list management and channel list updates (see Jaeger HD+ 2011 test report in TELE-satellite 12-01/2011) are HD+ features that have nothing to do with CI+.

What the future holds

In many cases, HDTV channels will select an encryption standard that blocks the distribution of received content. As CI+ is one such technology it will gain further ground in the HDTV segment. European viewers in particular will be forced to look at this topic one way or the other.

CI+ specifications:

www.ci-plus.com/data/ci-plus_specification_v1.2.pdf

Provider	Country	CI+ currently used	CI+ planned for future use	Distribution
HD+	Germany	X		satellite
Kabel Deutschland	Germany		X	cable
Caiway	Netherlands	X		cable
Delta	Netherlands	X		cable
Kabel Noord	Netherlands	X		cable
Ziggo	Netherlands	X		cable
UPC Nederland	Netherlands		X	cable
Boxer	Sweden	X		terrestrial
Com Hem	Sweden	X		cable
Teledünya	Turkey	X		satellite
Cablecom	Switzerland		X	cable
Top Up TV	Great Britain		X	terrestrial



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What's inside a silicon tuner?

Jacek Pawlowski

• a silicon tuner is a significant technological improvement that finds its way into nearly every new product in digital TV equipment

It is not only cheaper and much smaller but guarantees better performance if applied correctly - see our Feature Story in TELE-satellite 02-03/2011. Does this integrated circuit (which a silicon tuner in fact is) have innovative internal architecture that makes all this possible? Well, from the top level perspective, a silicon tuner has a rather typical front end architecture similar to a modern radio circuit. It is called the "direct conversion" or "zero IF" architecture and is quite popular especially in digital communication circuits. But, as usually, the devil is in the details.

Let's take as an example the simplified architecture of the AT810 chip of company Abilis Systems - see Figure 1. AT810 is a terrestrial TV tuner compatible with DVB-T/T2, ISDB-T, CMMB and DTMB/GB 20600-2006 standards. The first stage of

AT810 is a relatively low gain radio frequency (RF) amplifier followed by a tracking bandpass filter. The filter attenuates the interfering signals originating for example from GSM, or WiFi devices by about 60 dB. That's a lot. The filter is automatically programmed by the on-board microprocessor depending on the currently selected TV channel.

The RF amplifier, except for amplifying the signal by approximately 20 dB, provides additionally a loop-through output - what is very desirable in double tuner TV receivers. For the best performance of the TV tuner, this amplifier not only must have a very low noise coefficient but it must be able to handle large signals without entering into the non-linear region of its characteristics. Technical people say that such amplifier has a large dynamic range.

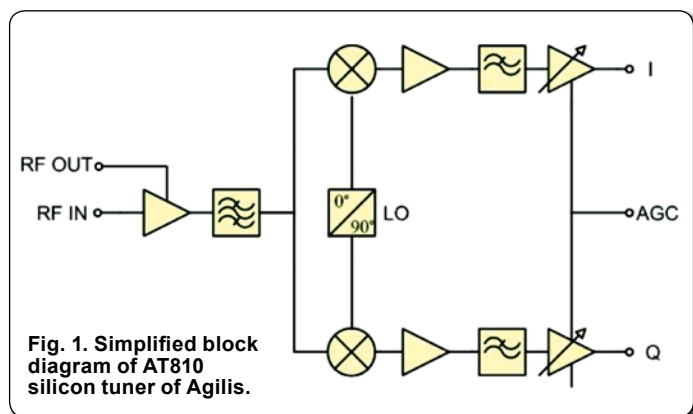
After the RF amplifier and the bandpass filter we have the essence of a direct conversion circuit: two balanced mixers fed with local oscillator signals of the same frequency but shifted by 90°. It is sometimes said that those mixers are fed with sine and cosine signals because the cosine waveform is identical to the sine shifted by 90°. The frequency of the local oscillator (LO) should be equal to the frequency of the received TV channel. In this way, at the outputs of the mixers, we get the modulating signal shifted in phase by 90°. Such signals are called the I and Q vectors. The letters come from the "In-phase" and "Quadrature" terms. I and Q signals are then amplified and unwanted products of the signal conversion are removed in the low pass filters located in both signal paths. The filters need to be very sharp because otherwise we would get interference from the adjacent signals. After the filters, there are the amplifiers of variable gain that enable automatic gain control (AGC). Thanks to the AGC, both weak and strong input signals produce similar signal level at the output of AT810. If the signal is weak, the gain of the amplifiers is set high, and if the signal is strong, the gain is set low.

Once we have I and Q signals, the next step is to convert them to digital form in analog-to-digital converters (ADC's). However, the ADC's are part of a digital signal processor - not the part of a silicon tuner. Having digital-

ized I and Q vectors, we can do all the magic reserved for digital signal processing like: very good filtering, demodulation, moving from time domain to frequency domain (with the help of Fast Fourier Transform) and much more.

Perhaps it will be a surprise for some of the readers to learn that with the digitalized I and Q signals, we can quite simply demodulate also analog TV signals (classical AM modulation).

However, the very first step must be to achieve good quality I and Q signals. And this "good quality" was until recently posing real problems for the chip manufacturers. Except for having very good initial RF amplifier, we also need very good mixers. By very good, we again mean sub-circuits of high dynamic range. But that's not all. Both mixers and all the sub-circuits after them: amplifiers, low pass filters and AGC amplifiers must be identical in I and Q path. Even a small difference in gains or a small phase shift between them would ruin the performance of the direct conversion circuit. Such symmetry requires a very well controlled chip manufacturing process and is not so easy to achieve. Fortunately, the engineers from Abilis like their colleagues from a couple of other competitive companies succeeded in that. Thanks to them, the digital TV receiver designers got a new building blocks - silicon tuners - that enable them to develop better, smaller and cheaper set-top-boxes.





How many SD/HD channels can we get from one transponder?

Jacek Pawlowski

Everybody who ever studied satellite charts with transponder data knows that the symbol rate of a transponder is one of its most important parameters. And that's not only because you need to know it to set the data in manual channel search in your receiver. Symbol rate directly affects the amount of useful data that can be transmitted via a transponder. The higher it is, the more data can be sent. More data means more TV and radio channels.

But can you exactly tell how many TV channels one can send through a transponder having a given symbol rate? Well, the exact answer is: no, we can not tell it with absolute exactness, but we can estimate the number of channels with reasonable accuracy.

Why is that so? The main reason is: we can not say precisely how many bits per second will be needed for a given channel. Channel bit rate changes depending on how dynamic its content is. Moreover, the DVB standard allows the service providers to choose between different video resolutions and different MPEG compression levels. If you have a good satellite signal analyzer, you can check for yourself that SDTV channel have average bit rates ranging from 1.5 Mb/sec to 6 Mb/sec (peaking even to 7 Mb/sec). Of course, the quality of a channel transmitted with 1.5 or 2

Mb/sec is very poor – the picture is foggy and sometimes you can notice compression artifacts. On the other hand, high quality SD channels like for example ZDF channel on ASTRA 19.2° E, have so good picture quality that when received with a set-top-box with an upscaler, you have the impression it is an HD channel. To achieve this, you need about 6 Mb/sec video bit rate.

The majority of the channels with acceptable quality have 3.5-4 Mb/sec video bit rate. Because audio occupies usually 0.256 Mb/sec, one can assume that on the average 4 Mb/sec is need for a good (but not the best) quality SDTV channel. This is true for MPEG-2 compression which is still in use for the vast majority of SD channels.

But what about HDTV channels? Well, they need much more bits per seconds. One can

assume about 15-20 Mb/sec for a HD channel compressed with classical MPEG-2 but only 10 Mb/sec if more modern H.264 (MPEG-4) is used. More and more HD channels move from MPEG-2 compression to MPEG-4. You know, the bandwidth is costly...

Once that we did the assumption on the required bit rate for an MPEG-2 SD channel and MPEG-4 HD channel (4 and 10 Mb/sec respectively), we can calculate how many channels one can send through a transponder of a given symbol rate. Except for the symbol rate, we need to take into account if it is DVB-S or DVB-S2 and what is the FEC value. The higher the FEC, the more efficient transmission, i.e. the higher usable bit rate for a given symbol rate.

In the three graphs, you can see the relationship between transponder symbol rate, FEC

and the bit rate. The Y axis scale has been chosen so that you can easily calculate the number of channels. So the scale has either a unit of 4 Mb/sec or 10 Mb/s.

Use the first graph to find a number of SD MPEG channels transmitted via DVB-S transponder. On X axis find the point equal to the transponder symbol rate and draw a vertical line upwards until it crosses the line corresponding with transponder FEC. From the crossing point, move horizontally towards Y axis to find the value of the bit rate that can be achieved for that symbol rate and FEC. Next count how many 4 Mb/sec steps you can make from zero to the found bit rate. This is the number of good quality SD channels encoded with MPEG-2 you can transmit via the DVB-S transponder. For example if $SR=27.5$ MS/sec and $FEC=3/4$, you will get over 40 Mb/sec what corresponds to 10 good quality SD channels.

The second graph lets you calculate how many HD channels you can send via the same DVB-S transponder. Please mind that now we assume MPEG-4 compression. If this is still MPEG-2, the number of channels will be twice as low. In the same example as

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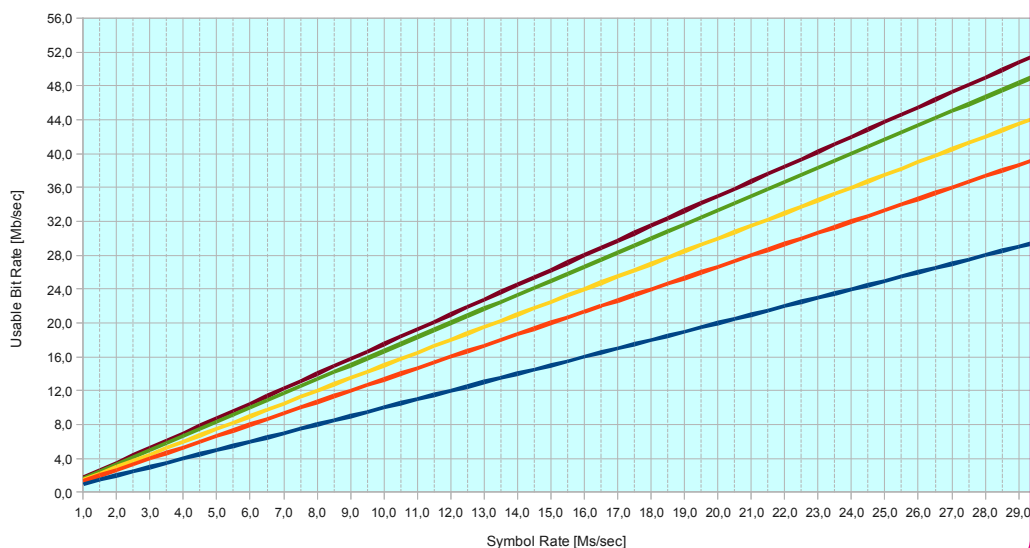
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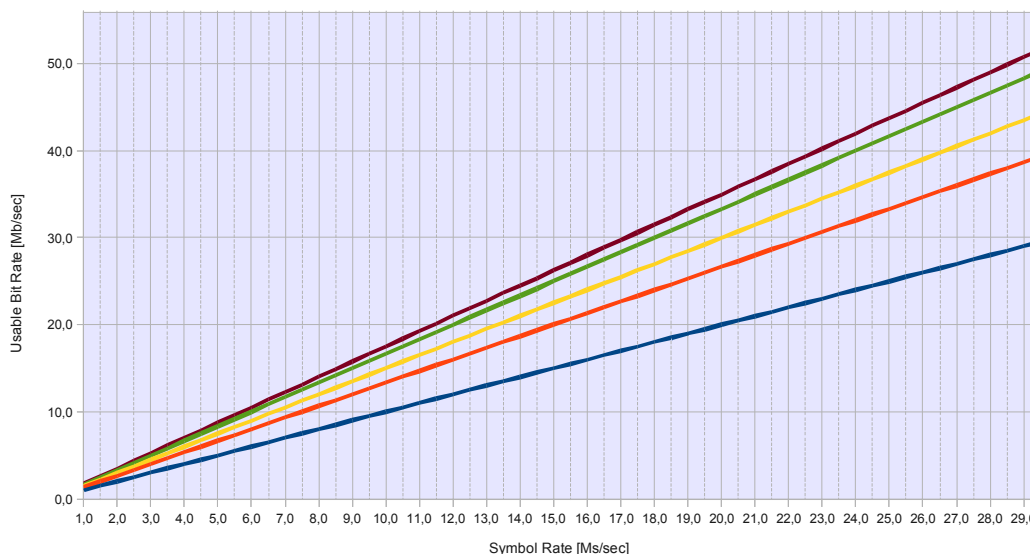
Graph 1. Bitrate vs. Symbol Rate and FEC for DVB-S

Note: 4 Mb/sec = 1 MPEG-2 SD channel of good quality



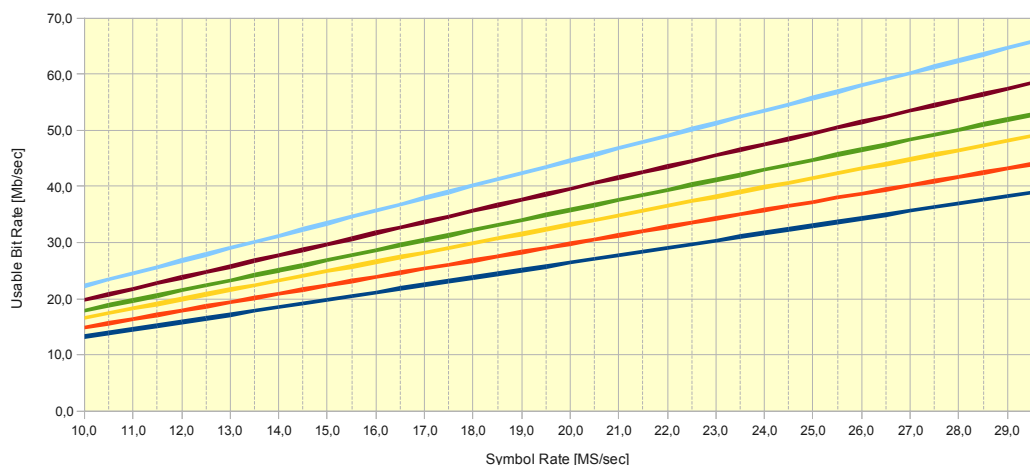
Graph 2. Bitrate vs. Symbol Rate and FEC for DVB-S

Note: 10 Mb/sec = 1 MPEG-4 HD channel



Graph 3. Bit Rate vs. Modulation and FEC for DVB-S2

Note: 10 Mb/sec = 1 MPEG-4 HD channel



above, you will find that 4 HD channels are possible with this transponder.

But what about DVB-S2? It becomes more and more popular. We prepared the third graph, this time only for the HD channels (but you can multiply the result by 2.5 to get the number of MPEG-2 SD channels). We have chosen only the most popular combinations of modulation type (QPSK/8PSK) and FEC values. Drawing all possible combinations would make the graphs completely unreadable. For the same exemplary symbol rate 27.5 Ms/sec, we can use 8PSK modulation and FEC=3/4 in DVB-S2 to get the usable bit rate over 60 Mb/sec what would enable us to transmit even 6 HD channels.

However you should be aware that the 8PSK and high FEC values require higher power to guarantee the same noise margin at the end user reception system. So, only the transponder on a satellite capable of providing enough power from its solar panels can be used in 8PSK mode with high FEC value. That's the physical limitation.

In the old days of analog TV, one could precisely tell how many channels you can transmit in a given bandwidth, but not today. In a real world, you can see quite often a combination of HD/SD channels and TV/radio channels transmitted through the same transponder. Channels differ in bit rates (and in this way in quality), so there is no way to say precisely how many channels we can expect assuming given bandwidth.

However, after reading this article you know what kind of video quality you can expect for example from a transponder filled with 20 channels and having SR=27500 3/4.



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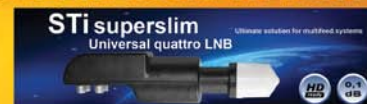
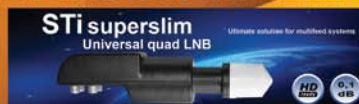


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Dishes in Iran

by A.G.



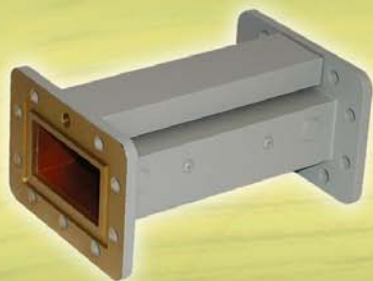
For preparing this report I've interviewed more than 20 persons, who are dish installers, website and weblog owners, receiver and dish sellers and finally receiver servicemen. They all face many problems and we go this in a minute. In accordance to a decision by the Iranian government, selling, buying, installing, repairing and even the possession of satellite dishes are forbidden and against the law, but obviously there are many people in Iran, who watch satellite tv. In fact, the number of Iranians, who decide to use a satellite systems, has even rapidly increased.

■ This is the 190cm mesh dish of Daryoush in Tehran/ Iran. He has pointed his dish to YAMAL at 90E and receives that satellite's 47 tv channels. Daryoush uses a satellite receiver by Starsat, model X95. He uses a STRONG L972 LNB.



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■ The roofs of Tehran (eastern part). How many dishes do you see? We counted 40, some are only partly visible. Hiding a dish is the best option in Iran.



People in Iran use, sell, buy and even install dishes discreetly. They mostly set up dishes on roofs and balconies and hide the system, if it's visible from the street. Legislators defined, that only Iranian telecommunication companies, the state-owned broadcaster IRIB, newspapers, banks, scientific and governmental associations are eligible to officially use satellite systems. But for common people, any type of transaction or possession of satellite reception equipment is forbidden and illegal.

This is somehow even contradicting,

because Iran has a very active history of space activities:

Oct 2005: a Russian rocket launches Iran's first satellite SINA-1

Feb 2007: Iran announced it launched a rocket capable of reaching space

Feb 2008: Iran launched a research rocket as part for satellite launch preparations

Aug 2008: Iran launched a rocket ,capable of carrying satellite'

Feb 2009: Iran declares launch of its first home-built satellite

So although the regime in Iran has

started some activities in the satellite world, it is still blocking channels and tries hard to prevent people from watching satellite tv. The Iranian government even so far and sat up large transmitters on high positions in various cities to disturb the transmission frequencies of Persian speaking satellite channels, mostly coming from Europe via HOTBIRD.

All of the people I interviewed were 20 to 30 years old and only one of them was 45 year old. As they themselves said, they had entered the satel-



■ A wall around the roof helps to make dishes invisible

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■ Dishes in Iran blend in with the color of the buildings and roofs

lite world in average between 2 to 12 years ago. Mohsen from Tehran said: „I started with satellite installation, when I was only 10 years old. All my family members were interested in my work and were sitting, watching me working“.

Although satellite receivers are illegal in the country, they are still widely available. There are even a lot of satellite fans in Iran. It's an interesting point, that almost all of the interviewees have studied or are studying in courses which are not related to electronics or communication, for example some took courses such as accounting, agronomy and fishing, chemistry, English translation and so on. They simply got involved in satellite reception because of their strong interest in satellite channels. One of my interview partners was Milad, who was the youngest, 20 years old, and he said: „I really love satellite“. Another one, Mokhtar: „I do it as an entertainment and have the love of doing this“.

As mentioned before, the government blocks Iranians' access to foreign

news and political networks such as the BBC Persian Service and the Voice of America (VOA). According to my survey, the least jamming takes place in the Markazi Province, whilst in Shiraz and Tehran the signal distortion is highest. Mehdi, an installer and a serviceman from Shiraz: „These parasite signals are really annoying and they disable the receivers“.

Now a closer look at dish installers in Iran. On average, an installer does 5-6 dish installations or adjustments in a week. Mohsen from Lorestan, who is working in this field for 9 years since he turned 16 years old, said: „I have 10 to 15 installations in a day“. Almost all of the installers do their work and the dish adjusting as a hobby or fun. All of them said, they are crazy about satellite tv and also because in most Iranian families, the younger members have learned to setup their own satellite systems.

Among those almost 20 persons I interviewed, only Davood from Arak and Mehdi from Shiraz do it as their first

job - although it cannot be named as a formal job in Iran. According to Mehdi's affirms: „My life expenses can hardly be provided with this job“. Davood claimed: „I'm married and our cost of living is not provided at all. After 12 years I cannot change my job“. Only these two persons also were selling receivers, dishes and LNB. Milad from Khozestan said: „My cousin works in a Oil Company, but he does installations as a second job“. It's interesting that although he is an employee in a state-owned company, he does something against the governmental law and secretly installs dishes.

The most favorite satellites in Iran, which the installers have been asked to install, are HOTBIRD (at 13.0 degrees East), EUTELSAT W3 (for BBC Persian), ARABSAT (at 26.0 E), TURKSAT (at 42.0 E), NILESAT (at 7.0 W), SIRISU and recently provincial channels on INTEL-SAT 902 (62.0 E) gained some friends. The brand of receivers people are using depends on each city, because there are different sources that distribute receivers, dishes and LNBs, so each city takes it from the nearest source. For example

in Markazi Province (Arak) most of the receivers are of the STARSAT brand. Esmail from Tehran: „In capital cities like Tehran you can find many different brands of receivers such as ICLASS and HIGHVISION.“ Morteza from Lorestan: „Before all the receivers were by STAR-SAT, but now more brands appear.“

About gaining new clients Amir said: „Customers themselves find us. For example when they are satisfied with my work, they recommend me to their friends, families or neighbors“. Milad from Khozestan: „We don't need any kind of advertisement and even don't try for it“. Yasin from Yazd: „I'm a student and install dishes for students for free“. Ahmad said: „I do it only for those who I know, like my families and close friends“.

In Tehran you can find both offset and prime dishes and some of them even mounted on a motor, but in smaller cities or far from a source to provide a receiver, dish or other equipment, people only use prime fixed dishes

(mostly 95cm in diameter) and hardly ever one finds an offset dish. In general, most dishes used in Iran are very simple and cheap metallic models, which are self-made in small workshops. The risk for the equipment to be confiscated or destroyed is too big, this is the reason why most people prefer not to spend too much money for their satellite system. The cost of installation in Iran, like the brand of receivers, is different in each city and even in each region of a city, but generally it's from 5 U.S. Dollars up to 20 for setting up a satellite dish.

So how does the equipment arrive in Iran? Alireza said: „My cousin imports receivers and all what's needed from Dubai to the free zone in Kish Island and then brings them to Tehran to sell to others or use for his own installations“. I heard this statement from several others too. Mokhtar from Kermanshah said: „Here is a border region and we get all our equipment from the Baneh Border“. Receivers are smuggled from Dubai and the Emirates to Kish

Island in Iran and even via the Soleimanieh Border in Iraq to Genaveh Port in Iran and then the equipment is brought to capital cities like Tehran, Esfahan and Shiraz and from there again spread to other cities. So you can only find wholesaler in these big cities, especially in Tehran. But all of them work in privacy and you never would find any LNB or any receiver's brand in shop windows. Dishes in Iran are made in underground workshops or places, which manufacture pans especially in big cities such as Tehran, Shiraz, Esfahan.

In recent years after Tehran, Shiraz has become one of the biggest sources where could find anything related to satellite in the Electronic Bazaar.

The interesting point in this report is that almost all the interviewees have learned adjusting and installing satellite dishes from the Internet, including reading the Persian edition of TELE-satellite magazine. Besides the Internet, some of them had the help of a friend or family member skillful in this field.

■ Multi-satellite reception is no problem:
just put a second LNB



Milad: „I have a cousin who is very professional in satellites. Alongside the Internet I've learned what I know by the help of him“.

Mehdi from Shiraz who started this job when he was only 18, said about his competitors: „In Shiraz you can find more than 10 wholesalers. There are a lot of installers in Shiraz maybe more than thousand, but I can't rank them. There isn't competition between us to gain clients, we all work together friendly“. Milad from Khozestan: „I can say that people who work in this state are the best, number one in Iran“. When I asked Davood from Arak how many installers are in his city, he only laughed!

I asked the installers, sellers and website owners, if they are under pressure or limitations by their families and what was thinkable here is that most of their parents are not aware or disagree with their activities in satellite tv. Alireza from Tehran is a young boy from a religious and famous family. His parents are not aware their son is a satellite installer. X from Esfahan said: „I don't care what my parents say, in my view it's an art“. Amir from Kerman: „My parents are well-known in my city and I've not let them know that, although I'm a student I'm an installer too. Maybe it would be bad for their name in my city“.

There are a lot of sites and weblogs and even electronic magazines about satellite in Iran. Saeed from Esfahan who is editor of one of the best electronic magazines and weblog in Iran said: „We are an eight-person group. I myself spend half of my day working and another half working on the satellite group completely for free“. He continued: „A strong feeling of love guides us through this way“.

When I asked his thoughts or ideas about the future of satellite tv in Iran he answered: „The government should accept the reality and it's better to leave them alone, who are active and interested in this field“. Other interviewees said the same and most of them had a hopeful view about the future of satellite reception in Iran. Sadegh from Kerman: „They will be forced to accept this situation which is out of control for lawmakers“. It is obvious that police raids and fines have not stopped dishes



■ Mehdi in Shiraz just installed this dish on a balcony, invisible from the street

springing up like mushrooms on the roofs of homes especially in the big cities.

All of the website owners were complaining about filtering on the Internet. One of them said (for his security he asked me not to mention his name and website address): „We were repeatedly threatened but still continue this way. Now we are a big group because after 4 years we have 140000 users“. Another site owner said: „The government has to accept our activities. To prevent backtracking I always enter my website by a London IP so I'll never be arrested by the police“.

Davood from Arak said: „At least once a year I'm arrested by the police guard and have to pay different amounts of fines from 200 thousand Toman to 3 Million Toman“. The amount of the fine is different in each city. Alireza from Esfahan: „I was several times arrested, the police confiscated all my equipment and fined me more than the amount of all my materials“. Saeed from Esfahan: „They rushed into my house, seized and confiscated all my work's equipments then penalized me“.

Recently a satellite TV station, Farsi 1, is pulling in Iranian viewers by show-

ing soaps and sitcoms but has incensed the dissatisfaction of the clergymen and state television executives. Farsi 1 broadcasts popular Korean, Colombian and U.S. shows and also dubs them in our national language, Farsi, rather than using subtitles. Its popularity has increased since its launch in August last year.

The stateowned Iran TV has reacted and started to produce more attractive TV programs, popular homegrown comedies and soaps to catch the viewers and avoid them watching Farsi 1. Officials acknowledge that they jam many foreign channels, but Farsi 1, which operates out of the Hong Kong-based headquarters of Star TV, is still receivable in Tehran.

According to this research, unofficial reports and statistics, the number of satellite dishes in Iran is more than 8 millions. It can be estimated that around 85% of the population have access to satellite channels. This percentage is up to 95% in the southern and border regions. The increasing number of users has lowered the sensitivity of the officials and it seems that they unofficially decided to be more tolerant and patient against satellite reception in Iran.



Dishes in Zanzibar





Edited by
Branislav Pekic

EUROPE

PENTHOUSE, HUSTLER LAUNCH 3D CHANNELS

Adult programmers Penthouse and Hustler have launched 3D TV channels in Europe. Penthouse 3D is available on Astra satellite platform, airing from 23.00 to 05.00, and has already signed its first carriage deal with French IPTV platform Free. For its part, Hustler uses the Hotbird satellite and discussions are underway for carriage agreements.

FINLAND

FINNISH CHANNELS LAUNCH HDTV VERSIONS

YLE, MTV3 and Nelonen will start national HD broadcasts, after the Finnish Government granted licences in three new multiplexes. Multiplex VHF C will carry two HD channels: Canal+Series HD and 4 Pro 2 HD, Multiplex F will host Discovery HD Showcase, Eurosport HD, MTV3 HD, Nelonen HD, while Yleisradio Oy has reserved capacity for HD broadcasts on one channel. All of the operating licences are valid until 31 December 2016.

GERMANY

ONE MILLION 3D TV SETS TO BE SOLD IN 2011

From their rollout in April 2010 until the end of that year, some 200,000 3-D TV sets were sold in Germany and GfK predicts that sales will rise by 500 percent to one million sets in 2011. It expects the national market to approach 10 million TV sets in the long term. However, only 200,000 pairs of the special glasses needed to watch films in 3-D were sold along with the 200,000 TV sets.

SES ASTRA, DEUTSCHE TELEKOM COMBINE SATELLITE, IPTV

SES ASTRA has teamed up with Deutsche Telekom to combine the satellite TV and IPTV service Entertain. The offer will include all FTA channels in SD and HD, including HD+ as well as the typical Entertain services like VOD, a TV archive and an EPG. Entertain Sat also comprises time shift functions and HD recording with 500 GB memory.

VODAFONE INTRODUCES ABC TV ON DEMAND

The Walt Disney Company Germany has signed an agreement with Vodafone for the country's first ABC TV On Demand. This is one of the first ABC TV On Demand services available outside the U.S. The VOD offering includes a selection of ABC series, kids and family channels Disney XD and Playhouse Disney, as well as access to Disney film classics.

GREECE

NET GEO WILD HD LAUNCHES IN GREECE

National Geographic Channels International has launched its Nat Geo Wild HD network in Greece. The channel is available on the Nova pay-TV platform, where the SD version is already available.

MOLDAVIA

MOLDTELECOM SELECTS ENTONE HDTV BOX

Moldtelecom has selected Entone's Amulet HD IPTV Receiver as part of preparations for the launch of HD content on its IPTV service. Entone's Amulet IPTV Receivers offer modular DVR storage options via USB and eSATA ports, and support a range of content formats including MPEG-4 (AVC/H.264), MPEG-2, VC-1, DivX, Dolby Digital, Windows Media, and MP3.

THE NETHERLANDS

EREDIVISIE LIVE MIGRATES TO HD WITH GRASS VALLEY

Eredivisie Live has migrated to HD for the 2010/2011 season and the broadcaster's new play-out center uses Grass Valley K2 Summit media servers. Alongside the Dutch Premier League domestic games it also has rights to key matches from international competitions such as the UEFA Europa League and English FA Cup.

POLAND

HBO GOES HD IN POLAND

HBO has launched HD versions of all its channels on the Cyfra+, Cyfrowy Polsat and 'N' DTH platforms. HBO's new movie channels HBO2HD, HBO Comedy HD and Cinemax2 HD will be introduced to the Polish market for the first time. The new channels have the same programming offer and scheduling as the ones in SD.

N AIMS FOR 30 HD CHANNELS BY YEAR'S END

n is boosting its channel line-up as the platform is aiming to reach more than 30 HD channels before the end of the year. The latest addition to the HD line-up was National Geographic Channel HD, bringing the total to 26 HD channels.

PORTUGAL

ZON AIRS NBA GAMES IN 3D

Zon Multimedia is broadcasting eight NBA league games in 3D, on its 3D demo channel. Besides games of the regular season, five playoff games will also be broadcast.

SONY ENTERTAINMENT HD LAUNCHES ON MEO

Sony Entertainment Television has launched on Meo in the HD version. The channel is available in the Basic package for IPTV (ADSL and Fibre Optic) customers. With the arrival of Sony TV HD, Meo will have a total of 17 HD channels.

SPAIN

STARMAX SELECTS GLOBECAST FOR HD TRANSMISSION

Starmax HD is using content management and transmission services from GlobeCast for aggregation, encryption and delivery of its full channel line-up. The service includes fibre contribution from several countries, reception of SD and HD channels at the company's Sainte Assise Teleport in France, and signal compression in MPEG-4. Starmax HD offers a prepaid package without requiring a subscription or minimum sign-up period and uses STBs from Ferguson and access cards from Conax.

UNITED KINGDOM

VIRGIN MEDIA ADDS SKY ARTS HD

Virgin Media has boosted its HD channel offering, with the two Sky Arts channels. Virgin Media's channel line-up now includes 19 HD channels available at no extra cost for a total of 31 HD channels, with the addition of Sky 1 Arts HD and Sky Arts 2 HD. Sky is currently market leader with more than 50 HD channels, with Virgin Media a clear second in the market.

SONY TO BRING WIMBLEDON IN 3D

Sony and the All England Lawn Tennis Club announced a multiyear partnership to bring Wimbledon to 3D-ready digital cinemas around the world. The live 3D production, in partnership with Wimbledon host broadcaster BBC, also will be offered to broadcasters. Sony will work with Super-Vision Media, its theatrical distribution partner.

BBC CAUTIOUS ON 3D TV

The BBC is playing it cautiously over the implementation of stereoscopic 3D technology according to a recent report. The March version of the BBC's technology plan has shown that while trials are set to continue with the new format, it will not be investing in programme making for the time being. However the report does not rule out a more comprehensive strategy next year.

NHK WORLD HD AVAILABLE ON FREESAT

NHK World became the first news network to broadcast in HD on the Freesat platform in May. The Japanese TV channel became the fifth HD channel on the DTH service, joining BBC1 HD, The BBC HD Channel, ITV1 HD and C4 HD.

SKY LAUNCHES MULTIROOM HD BOX

Sky has launched a new midrange set top box aimed at customers wanting to watch HDTV in more than one room. When taken with Sky's HD pack, the new Sky HD box gives customers access to the same line-up of more than 50 HD channels, including Sky Atlantic HD, BBC One HD and Sky Sports 1 HD. The receiver completes Sky's HD product line-up, alongside the standard Sky+ HD box and the 1 TB receiver.

NORTH AMERICA

CANADA

VIDEOTRON BOOSTS HD LINE-UP WITH OWN, CNN

Videotron has added two more HD channels – Oprah Winfrey Network (OWN) and CNN to its digital TV service. With these additions, illico TV now boasts a selection of programming on nearly 400 channels, and the largest selection of HD content. The new HD channels are available everywhere in Videotron's service area except Gatineau/Rockland.

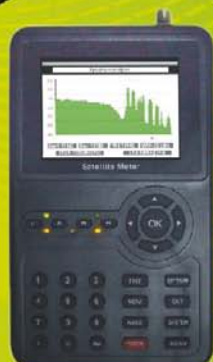
UNITED STATES

3DTV SETS IN 15 MILLION U.S. HOMES BY END-2012

About 15 million 3DTVs will be in homes across the United States by the end of 2012, a study released today by Futuresource Consulting claims. The growth of 3DTV adoption will rely upon the availabil-



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ity of 3D content, Futuresource says, adding that 11 3D services, 2 3D channels, and 6 VOD offerings were available to customers at the end of 2010.

PBTv ADDS SIX HD CHANNELS

Paul Bunyan Communications has added six more networks in HD to Paul Bunyan Television HD service. The networks added to PBTv HD service include MTV, Comedy Central, VH1, Spike, Nickelodeon and CMT. There is no change in the cost to receive PBTv HD service, which now has more than 30 channels available.

AT&T ADDS FOX SOCCER PLUS HD

AT&T has added FOX Soccer Plus HD to the U-verse TV channel line-up for \$15 per month. AT&T U-verse TV includes access to more than 155 HD channels and growing.

DISH NETWORK ADDS RFD-TV IN HD

RFD HD is now available at no additional cost to all DISH Network customers who subscribe to the America's Top 200 programming package or above. RFD-TV serves rural America with a 24-hour schedule of original and family-oriented programs that cover the rural way of life, including agriculture, equine, music and entertainment.

VERIZON ADDS BET HD TO FIOS TV

Verizon has added BET HD for its FiOS TV customers, providing hit music, entertainment and news programming geared toward the African-

American audience. BET HD joins FiOS TV's broad collection of programming, which offers more than 520 all-digital channels including up to 146 HD channels and 19,000 monthly VOD titles.

LATIN AMERICA

IPTV TO ACCOUNT FOR 12.1% OF HD SUBSCRIBERS IN 2015

According to consultancy Dataxis NexTV, in 2010 IPTV accounted for 4% of the total volume of HDTV subscribers in Latin America and this figure should grow to 12.1% by 2015. Driving growth in IPTV is going to the large operators like Telmex Mexico, Telefónica Chile and GVT Brazil. Dataxis NexTV forecasts that HDTV subscribers could reach 16.5 million in 2015, representing 22.7% of the total pay-TV subscriber base compared with 5.4% in 2005. Brazil, Mexico and Argentina will account for 79% of those HD subscribers. However, Brazil, Chile and Colombia are seeing the highest HDTV penetration rates.

BRAZIL

VIA EMBRATEL ADDS ESPN, TELECELINE ACTION HD

Via Embratel has expanded its offering of HD channels. ESPN HD and Teleceline Action HD were incorporated into the operator's HD package free of charge. The new channels com-

plement the HD grid, which already includes Globosat HD, Multishow HD, Discovery HD Theater, Fox NatGeo HD, TNT HD, HBO HD, Max HD, Teleceline HD and Teleceline Pipoca HD.

CHILE

ECHOSTAR EUROPE SUPPLIES STB FOR TELEFONICA MOVISTAR

EchoStar Europe has supplied a HD set-top box to support Telefonica Movistar HD service that allows users to watch up to 1000 channels including HD services. The twin-tuner HDS-600 ships with software that enables the consumer to upgrade to DVR using an external USB hard disk drive.

ASIA & PACIFIC

INDIA

DISH TV LAUNCHES 30 HD CHANNELS

Dish TV has launched 30 new HD channels including Zee TV, Zee Cinema, Zee News, Zee Studio, Zee Caf, HBO, Movies Now, Discovery, National Geographic, Animal Planet, Zee Talkies, Zee Bangla, Zee Telugu, Zee Kannada, Times Now, ET Now, Cartoon Network, POGO, Ten Sports, AXN, MTV, VH1, WB, Pix, TLC, Ten Cricket, UTV Action, UTV Movies, Sony and Colors.

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VIDEOCON LAUNCHES DVR WITH 3D

Videocon d2h has launched India's first HD DVR with 3D. The main features include recording up to 200 hours, 16:9 aspect ratio, 5x digital picture quality and HD Digital sound. The newly added HD channels are Discovery HD, NGC HD, Movies Now HD, Travel XP, HD Active Music, HD d2h Movies, Baby TV, Spacetoon, FX, Fox Crime, Big CBS Prime, Discovery Science, Discovery Turbo, NGC Wild, NGC Adventure and NGC Music.

SOUTH KOREA

ICONCERTS SECURES CARRIAGE ON KT

Swiss HD music events service iConcert has secured multi-platform carriage with Korean IPTV operator KT. The iConcerts is available on the Olleh N-Screen service, as a live or VoD channel on wired and wireless internet services, including tablet PCs and other mobile devices.

OCEANIA

AUSTRALIA

TEN NETWORK LAUNCHES ONE HD

The Ten Network launched its HD sports channel One, with general entertainment programming set to take over its schedule from May. One HD is targeted to a male audience, with a mixture of drama, HD movies and documentaries, as well as premium sport.

NEW ZEALAND

HDTV COVERAGE EXTENDED NATIONWIDE

The New Zealand Government is extending the existing DTT service to Whangarei, Rotorua, Gisborne, Taupo, New Plymouth, Whanganui, Wairarapa, Nelson, Timaru and Invercargill, making it available to an extra 160,000 households. The decision means over 86% of the population will be able to receive the HDTV signal via UHF aerial by September 2011.

SINGAPORE

ONE HD PREMIERES ON STARHUB

Sony Pictures Entertainment Networks Asia has teamed up with StarHub to expand the reach of its Asian general entertainment channel One. StarHub is One HD with Chinese subtitles and a two-hour primetime program dubbed in Mandarin.

AFRICA

SOUTH AFRICA

DSTV LAUNCHES THIRD SUPERSPORT HD CHANNEL

DSTV has launched its third HD sports channel, in addition to the two existing SuperSport HD channels. SS HD3 airs 24-hour English Premier League channel, with a limited amount of programming in SD. The addition of SS HD3 brings

the total number of HD channels on DSTV to six: three SuperSport HD channels, M-Net HD, M-Net Movies 1 HD and Discovery HD Showcase.

WORLD

GLOBAL HDTV SUBSCRIBERS TO TOTAL 225 MILLION IN 2011

The number of pay-TV customers worldwide with subscriptions to HDTV services is expected to reach 225 million this year, according to ABI Research. There were 704 million pay-TV subscribers globally as of the end of 2010, an increase of 56 million from the previous year.

RRSAT PROVIDING 3D DELIVERY OF FASHION TV

RRsat Global Communications Network is providing uplink, play out and connectivity services for fashionTV H3, the 3D programming on the Fashion TV Paris HD channel. FTV has doubled the shows broadcast as part of the FTV HD programming played out and distributed by RRSat on its DTH platforms on the Intelsat-805 satellite over North, Central and South America, on the Eurobird 9A satellite to Europe, the Middle East and Africa, and on the Asiasat-5 satellite to Asia and Australia.



Edited by
Branislav Pekic

EUROPE

AUSTRIA

TELEKOM AUSTRIA IPTV SUBSCRIBERS UP 50%

Telekom Austria had reached over 151,000 subscribers for its IPTV service aonTV by the end of 2010, up more than 50% from one year previously. Thanks to agreement with On Demand Deutschland, aonTV subscribers will be able to watch 3D versions of blockbusters whenever they want and with complete time-shifting capabilities.

BELGIUM

BELGACOM IPTV SERVICES TOP 1.1 MILLION

Belgacom added 223,000 subscribers for its IPTV service Belgacom TV last year to reach a total of 975,000 customers by the end of 2010. Rival Mobistar reached 10,000 subscribers for its hybrid TV service Mobistar TV, launched October 2010. Mobistar plans to add a further 50,000 TV customers by the end of 2011.

CROATIA

T-HRVATSKI TELEKOM CLOSE TO 300,000 IPTV SUBSCRIBERS

T-Hrvatski Telekom had reached 297,496 subscribers for its IPTV service MAXtv by the end of 2010, up 26.1% from one year previously. Growth was driven by continuing promotions and attractive content packages, including new films and HBO programming, and the launch of a Sports package.

FRANCE

SFR PROVIDES SUBSCRIBERS WITH 120 TV CHANNELS ON MOBILES

SFR has enhanced its app for iOS and Android smart phones and tablets by enabling its IPTV subscribers to watch over 120 live TV channels on their mobile devices. The app also allows users to consult their full EPG, schedule recordings remotely, set reminders, and browse the VOD library. SFR has also boosted its on-demand library of 3D content.

FRANCE TELECOM WITH 3.5 MILLION PAY-TV SUBSCRIBERS

France Telecom reached 3.505 million customers for its pay-TV services (delivered by IPTV and satellite) at the end of 2010, up 27% year-on-year. The Orange IPTV service recently added a new top-tier channel package, new information services, and launched a new application which can stream content from Orange cinéma series to a variety of screens including Android devices.

GERMANY

VODAFONE GERMANY LAUNCHES HYBRID TV PLATFORM

Vodafone Germany has officially launched its hybrid TV service, Vodafone TV, based on

the company's Vodafone TV Center box. The service allows customers to receive analogue cable and digital satellite channels alongside Vodafone TV's IPTV offering, Videothek, available over its DSL network. The starter package offers 50 TV channels plus 12 HD channels.

DEUTSCHE TELEKOM SELLS 1.6 MILLION IPTV SUBSCRIPTIONS

Deutsche Telekom reports that it had sold 1.6 million subscriptions to its IPTV service T-Home Entertain by the end of 2010. Total active IPTV subscriptions in Germany had reached 1.156 million by the end of last year, up from 1.042 million one year previously. The operator had also reached 654,000 active IPTV subscribers in other European markets by the end of 2010.

CTC MEDIA SIGNS GERMAN IPTV DEAL

CTC Media has signed an exclusive agreement to distribute the CTC-International channel via the Kartina TV IPTV network, with a one-year right to sublicense it to other IPTV networks across European territories.

WATCHDOG BLOCKS ONLINE TV PLATFORM

Germany's antitrust watchdog has vetoed plans by RTL and ProSiebenSat.1 to launch a joint online video platform for their own content as well as that of other broadcasters. The Federal Cartel Office believes the joint platform "would further strengthen the still existing dominant duopoly between the two broadcasting groups".

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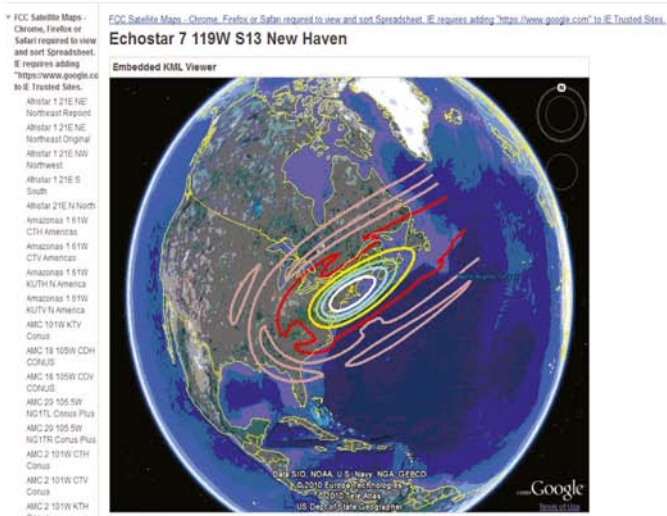
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HUNGARY

HUNGARY WITH 557,000 IPTV SUBSCRIBERS

Hungary's twelve biggest digital TV companies had 1,423,000 subscribers at the end of December 2010, according to the National Media and Infocommunications Authority (NMHH). The number of their digital subscribers with cable or IPTV connections rose by 20,000 to 557,000 during the month.

ICELAND

VODAFONE ICELAND SELECTS AMINO IPTV BOXES

Vodafone Iceland has selected Amino Communications' HD set-top boxes for the next phase of its IPTV service rollout. The operator will deploy a number of Amino A140 SD/HD STBs as part of a service upgrade of its IPTV service which offers TVoD, Catch-up and 100 TV channels to over 25,000 customers.

ITALY

ACCENTURE HELPS MEDIASET LAUNCH OVER-THE-TOP TV

Accenture is providing a solution for Mediaset, enabling the broadcaster to provide Over-the-Top services for TV, PC and other devices as part of the Mediaset Premium offer. Customers will be able to access linear content and non-linear services such as Catch-up TV, VOD and Virtual Linear Channels on the TV set. Premium Net TV will offer over 1,000 different types of

content, including HD films, TV series, cartoons, documentaries and football matches.

KOSOVO

HARMONIC POWERS PTK IPTV SERVICE

PTK has deployed Harmonic's IP-based digital video head end solutions for its new IPTV service. The solution includes ProView integrated receiver/decoders (IRDs), Electra 8000 dual-channel SD/HD encoders, Ion AVC encoders, and NMX Digital Service Manager. BeeSmart is providing the interactive TV middleware platform.

MOLDAVIA

MOLDTELECOM SELECTS MID-DLEWARE FROM MINERVA

Moldtelecom has started scaling up its IPTV service using middleware from Minerva Networks, delivering the service to tens of thousands of subscribers. The operator offers two basic packages and one thematic package for adults. It also recently added an HD package to its content line-up.

MONTENEGRO

CRNOGORSKI TELEKOM UPGRADES IPTV PLATFORM

Crnogorski Telekom introduced a new software solution for its IPTV platform Extra TV. The solution is based on one of the newest version of the Microsoft Mediaroom software, with new features including the addition of favourite channels in real time, the scheduling of recordings, as well as

access to social networks. Since 2010, Crnogorski Telekom is the pay-TV market leader, with a 38 percent market share (42,8000 subscribers).

NETHERLANDS

KPN IPTV SUBSCRIBERS MORE THAN DOUBLE

KPN more than doubled the customer base for its IPTV service Interactieve TV last year to reach 302,000 subscribers by December 2010, compared to 106,000 one year previously. An estimated 80% of Dutch households are now covered, while around 69% of Dutch households are capable of receiving its HD IPTV service.

POLAND

TPSA WITH 544,000 PAY-TV SUBSCRIBERS

TPSA had reached 544,000 subscribers for its TV services (delivered via DTH and IPTV) by the end of 2010, having added 47,000 customers in the 4Q period. The company reports that its pay-TV services now have a 23.8% penetration of its broadband subscriber base.

PORTUGAL

PORTUGAL TELECOM INTRODUCES PRE-PAID CARD FOR VOD

Portugal Telecom has enabled subscribers of its IPTV service Meo to pay for VOD with pre-pay cards. The cards have a value of EUR 5 or EUR 10, valid for a three-month period. Portugal Telecom had reached 830,000 Meo

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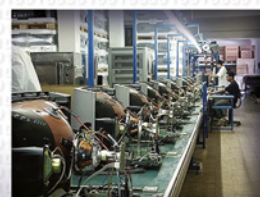


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subscribers by the end of 2010, having added 249,000 customers in the 12-month period.

ABC LAUNCHES VOD SERVICE WITH ZON

ABC TV On Demand has launched in Portugal through subscription VoD operator Zon. Some 500 ABC shows, including Grey's Anatomy, Desperate Housewives and Lost, will be available with new content added each month. Zon customers with subscriptions to its Filmes e Séries Ilimitado on Videoclube package can now access the ABC service for EUR 10 per month.

RUSSIA

NTV PLUS, SMARTLABS LAUNCH JOINT IPTV SOLUTION

NTV-Plus has partnered with SmartLabs to jointly deliver a new IPTV service aimed at Russian broadband operators. SmartLabs will provide customers with client applications and a centralised management system for IPTV services and resources, while NTV-Plus will provide them with access to premium TV content.

VLADLINK TO LAUNCH IPTV IN FAR EAST

Vladlink is conducting trials of IPTV services in Russia's Far East, in preparation for a full commercial launch with its residential customers. The company has selected Netris to provide its iVision middleware for the new service, to be called Vladlink.TV.

URALSVYAZINFORM UPGRADES IPTV PLATFORM

Uralsvyazinform has upgraded its IPTV platform using an end-to-end solution from Moscow firm SmartLabs. The Utel.TV IPTV service currently offers 96 SD channels, five HD channels and

one 3D channel, as well as a range of on-demand content in SD, HD and 3D. In the near future, Uralsvyazinform is expected to introduce over-the-top (OTT) access to Utel.TV from PCs, iPhones, iPads and Android-based devices.

SCANDINAVIA

DREAMPARK PROVIDES MIDDLEWARE SOLUTIONS

Dreampark is providing its TV middleware solution to Faroese Telecom in the Faroe Islands as well as to Finland's Alcom. The Finnish operator is swapping out a competitor's middleware solution and replacing it with the Dreampark Dreamgallery middleware. Meanwhile, Motorola Mobility has signed an agreement to acquire Dreampark and the acquisition should be closed before the 2Q 2011.

OUTDOOR CHANNEL ARRIVES IN SCANDINAVIA

Outdoor Channel has launched on Telia-Sonera's IPTV platform in Sweden and Finland, with upcoming launches planned for Norway and Denmark. The deal is part of a joint venture between Chello Zone and the Outdoor Channel announced last year.

SPAIN

TELEFONICA REACHES 788,000 IPTV SUBSCRIBERS

Telefonica has reached a total of 788,000 IPTV customers by the end of 2010, giving it a 19% market share of the Spanish pay-TV market. The Movistar Imagenio service is adding Sundance Channel Global to its channel line-up on June 1. Additionally, Movistar

Imagenio will offer both the SD and HD versions of Sundance Channel on demand.

TV3 DEPLOYS ANEVIA IPTV SOLUTION

TV3 has chosen to deploy Anevia's IPTV gateways for use within its broadcasting facilities. Anevia IPTV gateways receive live TV broadcasts in DVB and analogue formats and streams them over an IP network.

SWITZERLAND

SWISSCOM REPORTS 81% GROWTH IN IPTV SUBSCRIBERS

Swisscom has reached 421,000 subscribers for its IPTV service Swisscom TV by the end of 2010, up 81.5% from one year previously, having added 63,000 new customers in the last quarter alone.

TURKEY

TTNET LAUNCHES IPTV SERVICE IN TURKEY

TTNET has launched its IPTV service, Tivibu Ev, following the launch of the Web TV service one year ago. A mobile version, Tivibu Cep, will be available in the 2Q 2011. On Demand Group is TTNET's international VOD content management partner.

NORTH AMERICA

CANADA

TELUS ADDS 48,000 IPTV SUBSCRIBERS IN 4Q 2010

Telus had reached 314,000 IPTV subscribers by the end of 2010, up 85% from one year previously.

TBAYTEL SELECTS CALIX FOR IPTV LAUNCH

COLBA.NET TO LAUNCH IPTV

UNITED STATES

Minerva Networks has scored a deal with Salisbury (North Carolina) to deliver broadcast TV, VOD and Internet TV to 10,000 subscribers in conjunction with the city-owned Fibrant FTTH service provider. The new TV services include HDTV, whole-home digital video recording (WHDVR), VOD and Internet TV.

The IP&TV World Forum has honoured AT&T with an Industry Award for AT&T U-verse TV. The award was for the Best Multiscreen TV Service and the operator was also nominated as a finalist in the Best IPTV, Hybrid or Connected TV Service Growth Achievement category.

BONAIRE

Telefonia Bonairiano (Telbo) has selected Amino's A140 HD next generation IPTV set-top boxes for the deployment of HDTV services. Amino's A140, an MPEG-2 and MPEG-4 HD set-top box, is based on the latest STI7105 System on Chip solutions and was launched in mid-2010.

AZERBAIJAN

The Baku Telephone Network Production Association (BTRIB) intends to increase the number of IPTV users in 2011 to 2,000. Currently, the figure stands at 1,000. BTRIB is only one of the companies providing IPTV in the country and they include Aztelekom, Azeurotel, Adanet, and Ultel.

Bharti Airtel has launched its IPTV service, Airtel Broadband TV, offering 28 live TV channels to subscribers via PC. Three different tariff options are available, with prices starting at INR49 (USD 1.06) per month for either the Night Pack or My Pack. The most expensive option, Gold Pack, offers all live TV channels in addition to a number of VOD channels for INR99 per month.

MALAYSIA

Time dotCom (TTdC) has teamed up with Measat Broadcast Network Systems (MBNS), for the provision of IPTV and broadband services across the Klang Valley and Penang. Customers in apartment blocks, multi-dwelling units or commercial buildings will be offered an Astro IPTV solution, bundled with triple play.

MONGOLIA

Univision has signed a multi-year agreement with Turner Broadcasting System Asia Pacific under which some of the latter's premium channels will be added to its IPTV service. The channels include CNN International, Cartoon Network, Boomerang and truTV. Univision's IPTV service offers a core package of 70 linear channels for USD 9 per month, as well as VOD.



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QATAR

QTEL TO ADD HDTV AND VOD IN 2011

Qtel plans to start offering fibre-based services for customers in mid 2011, including high-speed Internet, HDTV, and advanced services such as movies and VOD. More than 300km of fibre network has been laid to replace the existing copper network across Doha.

SAUDI ARABIA

SAUDI TELECOM IPTS FOR JDSU IPTV SOLUTION

Saudi Telecom (STC) has selected JDSU to provide a comprehensive IPTV end-to-end service assurance solution. Saudi Telecom launched its IPTV service inVision in August 2010, initially available in Riyadh, Jeddah and Dammam, and more recently introduced new sports packages.

UNITED ARAB EMIRATES

ETISALAT SELECTS IPTV TECHNOLOGICAL PARTNERS

Pace and Verimatrix have been appointed by Etisalat to enable delivery of digital TV services to customers. The Pace HD PVR will provide VOD, PVR and Interactive services, while Pace's Advanced Residential Gateway enables delivery of a variety of wireless digital services into the home through a single device. A Verimatrix Video Content Authority System (VCAS) solution is being used to secure revenue streams from Etisalat's IPTV service.

AFRICA

EGYPT

EAMS CHOOSES LATENS, DREAMPARK CAS FOR IPTV PLATORM

EAMS has chosen Latens software-only Conditional Access System (CAS) to protect its Satellite IPTV delivery system. The EAMS Ecosystem will consist of Latens CAS, plus other system components. EAMS plans to offer HD/SD linear TV, PPV, and VOD services using satellite delivery of content via Nilesat to 50 regional head ends. The IPTV operator has also chosen the Dreampark Dreamgallery Middleware.

WORLD

GLOBAL IPTV SUBSCRIBERS TO REACH 70 MILLION IN 2015

Subscriber growth in China, Latin America and Eastern Europe will help double the number of IPTV subscribers worldwide to 70 million by 2015, according to a report from IMS Research. The market, which currently stands at 36.5 million, will see a slowing of growth in Western Europe as that market reaches the saturation point. Only China is expected to see continued strong growth.

OVER 11.5 MILLION IPTV SUBSCRIBERS ADDED IN 2010

The total number of IPTV subscribers worldwide had reached nearly 45.4 million at the end of 2010, with over 11.5 million added in 2010, according to the latest figures from the Broadband Forum. Europe is still the number one region for IPTV subscribers, but the growth rate was lower mostly due to market saturation. Asia recorded a 50 percent growth last year and should overtake Europe in 2011. The Middle East & Africa region had the strongest percentage growth at 63.5%. France remains the leading IPTV nation (10 million subscribers), closely followed by China (including Hong Kong, Macau and Taiwan), which should overtake France in 2011.



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Tunisia
UK**

* some
DVB-T MPEG-4

** some DVB-T2

* some
DVB-T MPEG-2

** some DVB-T2

DVB-T

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TELE-satellite Deadlines

Issue	TELE-satellite 06-07/2011	TELE-satellite 08-09/2011	TELE-satellite 10-11/2011
#	1107	1109	1111
Editorial Deadline	1 April 2011	3 June 2011	5 August 2011
Advertisement Deadline	8 April 2011	10 June 2011	12 August 2011
Hardcopies	20 May 2011	15 July 2011	16 September 2011
Online	3 June 2011	5 August 2011	30 September 2011

Digital TV Exhibitions

21 - 24 June 2011



CommunicAsia 2011

22nd International Communications and Information Technology Exhibition & Conference
Basement 2, Marina Bay Sands, Singapore
www.communicasia.com

9 - 11 August 2011

ABTA 2011

São Paulo, Brasil

23 - 25 August 2011



Broadcast & Cable 2011

International Fair of Technology, Equipment and Services for Television Engineering, Broadcasting and Telecommunications
Centro de Exposições Imigrantes, São Paulo, Brasil
www.broadcastcable.com.br

2 - 7 September 2011

IFA 2011

Berlin, Germany

9 - 13 September 2011



IBC 2011

RAI Convention Centre, Amsterdam The Netherlands
Annual event for professionals engaged in the creation, management and delivery of entertainment and news content
www.ibc.org

6 - 9 October 2011

CeBIT Bilisim Eurasia

Istanbul, Turkey

13 - 14 October 2011



SCaT India 2011

South Asia's Largest Tradeshow of the Indian Cable & Satellite Television Industry
World Trade Centre, Cuffe Parade, Mumbai, India
www.scatmag.com/scatindia/

13 - 16 October 2011

Hong Kong Electronics Fair

Hongkong, China

19 - 21 October 2011

EEBC 2011

Kiev, Ukraine

26 - 28 October 2011



CAPER 2011

International Equipment & Services Exhibition
Centro Costa Salgero, Avenida Costanera y Jerónimo Salguero, Buenos Aires, Argentina
www.caper.org.ar

10 - 13 January 2012



2012 International CES

Manufacturers, developers and suppliers of consumer technology hardware, content, technology delivery systems and related products and services
Las Vegas Convention Center, Las Vegas Nevada, USA
www.cesweb.org

7 - 9 February 2012



CSTB 2012

Telecom operators, internet-providers, cable operators, TV broadcasters, content providers
International Exhibition Center „Crocus Expo“, Moscow, Russia
www.cstb.ru

28 February - 1 March 2012



CABSAT 2012

Premier Broadcast & Satellite Platform in the Middle East & North Africa Region
Dubai International Convention and Exhibition Centre, Dubai, UAE
www.cabsat.com

6 - 10 March 2012



CeBIT 2012

The digital industry's biggest, most international event
MesseGelände Hannover, Germany
www.cebit.de

March 2012

CCBN 2012

China Content Broadcasting Network Exhibition - largest broadcasting technology and equipment expo in the Asia-Pacific region
Beijing International Exhibition Center, Beijing, China
www.ccbn.tv

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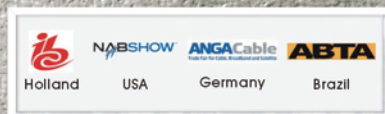


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