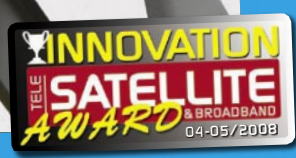


国际卫星电视

与宽带

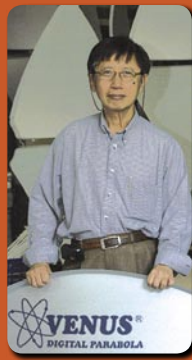
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GT-SAT
将LNB销往世界各地

关于公司的报道

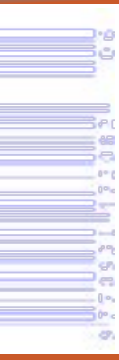
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Elegant HDTV Receiver with Irdeto Reader

测试报告
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TF7700HSCI



USB External HDD

TF7700HSCI

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HIGH DEFINITION
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3E67GDA8EDAD9C6AA4859C4BF579AA32

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从这里下载SatcoDX软件:

www.TELE-satellite.com/cd/0806/man

在您的电脑上运行SatcoDX软件的详细指南:

星转发器数据, 前提是您的电脑连接到网上并允许FTP下载。

1. 从上述地址下载3.12版SatcoDX软件

注意: SatcoDX软件不用激活码或者使

注意: 如果您早已经安装有3.12版

SatcoDX软件, 则不必再下载了。

点击“帮助”按钮来检查您安装的版本, 然后点击“关于”按钮。第3条线会告诉您电脑上已装有的版本。

用过期的激活码也可以运行。但是, 显示的卫星数据可能是上次您更新的或者原始的数据。SatcoDX软件默认状态是当前编辑完并上传的最新数据。

2. 点击“许可”按钮输入激活码然后注册。输入有效的激活码后退出。现在您就可以在您想要的时候下载最新的卫



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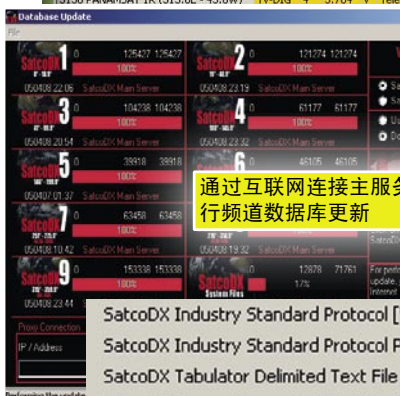
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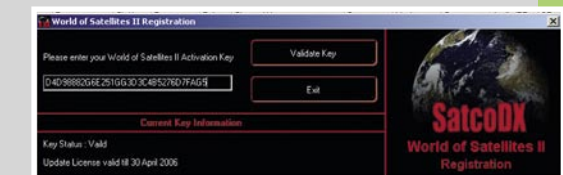


全球所有卫星频道完整数据列表

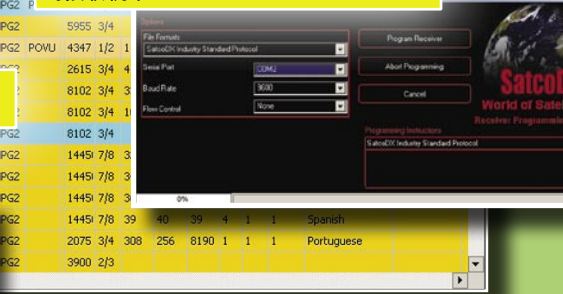
自动显示所有可接收的卫星频道



通过互联网连接主服务器及备份服务器进行频道数据库更新



自动载入卫星频道数据到与SatcoDX兼容的接收机中



以HTML格式打印包含卫星场强图的频道列表



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"What Satellite"
Jan 08



- 10,000 Channels • Component (YPbPr) Output • Fast Blind Search
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TM-5200 D USB

Free-To-Air Satellite Receiver

TM-5300 D+ USB

Built-in Smart Card Reader

TM-5400 CI+ USB

Card Reader + Common Interface

TM-5600 CI USB

Comon Interface Slot

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The New



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- Record to a USB Flash Drive or to an external USB Hard Disc*
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DVB-S/S2 Satellite

TM-6900 HD COMBO

DVB-S/S2 Satellite & DVB-T Terrestrial

*may need to be powered



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亲爱的读者们



我们发现自己正站在一场大变革的起点。难道你没有注意到它吗？多数变革都像这样：它们启动的时候不引人注目，而后有一天你却发现正站在它中间。只有当它超过你的时候你才知道，因为以前没有任何事物与它相像。

这次是“同轴电缆的退出”。确实，同轴电缆在专业市场已经被光缆取代，只有在家用终端用户那里苟延残喘，而且音频设备也已经使用光纤连接。现在，光纤信号分支器使光纤在家庭取得了胜利。

我们在上期的《国际卫星电视》里关注了这项新技术的一些实验室样品，在本期中你会找到一篇关于其手工制作样本的报道。这是一场大变革吗？完全是！大多数变革爆发前的开始时发展是缓慢的。

这项光纤信号分配新技术将会应用在各种可能上，例如，当需要长距离传输时。最后，这种技术的应用会越来越来多。它也会变得越来越便宜。光缆信号分支器成为不二选择，这一天终将到来。

那一天的到来将会经过许多年，先不

要把你的同轴电缆送到废品收购站去。但是，同时它也不影响这项新技术快速进入家庭，其优势不应该被忽略。为应对非常微弱的卫星信号在长距离传输时的损耗，某些优势将会有可能进入实用，因为现在的同轴电缆不能解决这一问题。而从经济学观点看，光纤技术将会赢得新的市场，就是那些现在还没有开发出来的市场。

所以，光纤技术也意味着电力时代的结束。光纤的转换标准也与高频电线大不一样。这场变革已经开始并预示着：“同轴电缆终将退出，有关光学知识的学习要加快。”

亦如既往，《国际卫星电视》将会给你指引路的方向！

您的亚历山大·维思

附注：本月我喜爱的广播电台：在13° E上 HOTBIRD 卫星上的 Petofi 电台:(12.149V, A-PID 100)一个匈牙利国营电台播出的音乐，其广泛的多样性令人惊讶。我极力推荐它！

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METABOX[®] HD CI

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WEBSITE : www.metamultimedia.net

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

HUMAX

iCORD

NEW



Twin HDTV PVR Receiver

- Recording 4 channels whilst watching a live tv or Play-back
- Time shifted recording for 2 hours
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- 1080i, 720p, 576p, 576i video resolution
- Audio decoding: Dolby AC-3 (Dolby Digital)
- AV File transfer by USB 2.0 port
- 2 Common Interfaces
- HDMI output

TOPFIELD

TF-7700 HD PVR

NEW



HDTV Digital Satellite Receiver with Personal Video Recorder

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

TOPFIELD

TF-7700 HSCI / TF-7700 HCCI



HDTV for satellite and cable reception

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

HUMAX

PREMIERE Receiver

PR FOX II



- Premiere and Kabel Digital
- 1000 services (TV and Radio) programmable
- Optical digital output

BLU FOX S

blucom ENTAVIO



- Premiere and Premiere Star
- interactive services via mobile phone by Bluetooth
- Optical digital output

BLU FOX CI

blucom ENTAVIO



- Premiere and Premiere Star
- interactive services via mobile phone by Bluetooth
- 1x CI Slot
- Optical digital output

TOPFIELD

TF 6000 FE



Digital Satellite Receiver

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

TF 6000 T

Digital Terrestrial Receiver

- MPEG-2 Digital and fully DVB compliant
- 2000 services (TV and Radio) programmable
- Multilingual Audio support

HUMAX

F3 FOX CI



Digital Satellite Receiver with CI Slot

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- Max. 4000 channels receivable.
- Channel list mode
- 4 Favorite channel groups
- DiSEqC version 1.0, 1.2 USALS compliant

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

DIGISAT PRO ACCU



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Check two LNBs at the same time
With DiSEqC tester

ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB



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- Shows the complete spectrum in one picture
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Stab

NETWORK streaming clients

ELANVISION EV-8000S



- Linux Operating System
- Ethernet Card 100 Mbit
- USB 1.1 Host Controller
- IBM Power PC ("STB04500/Pallas")
- Recording 2 channels simultaneously while playback another from HDD and many more features

TOPFIELD
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Digital Satellite Personal Video Recorder

- Local Area Network (HTTP/FTP)
- Picture-in-Picture
- Dual Recording

Available in black and silver

TOPFIELD
TF-6000 PVR W-LAN



Digital Satellite Wireless Lan PVR

- Wireless Lan PVR
- Alphanumeric VFD Display
- Dual decoding (PIP) and Dual tuner

Available in black and silver

PCMCIA-Modules



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

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

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 Quattro Switch
- KU
- C Band
- Circular
- and many more

MAXIMUM
V-Series



AVAILABLE AS:

- V-1 Single
- V-11 Single + DiSEqC
- V-2 Twin
- V-4 Quad
- V-8 Octo
- V-21 Single Monoblock
- V-22 Twin Monoblock
- V-24 Quad Monoblock

Full LNB range MAXIMUM available from stock

Multiswitches / DiSEqC - Switches

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- DTRON
- JAEGER
- JOHANSSON
- MAXIMUM
- BEST



From 2 in/1 out
up to 17 in/8 out

SPAUN

Full Range

Parts

Multifeederholder for 2, 3, or 4 LNB



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



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

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- Remote Blaster
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- High Quality coax cable
- Minicable Coax
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- TWH-031
- VQTH-031
- QDH-031
- SNF-031
- TWF-031
- QTF-031
- QDF-031

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- MTI AP 82 XT2N Twin
- MTI AK54 XT2N Quad

Full LNB range MTI available from stock

Dishes

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TRIAx

emme esse
MULTIMEDIA SYSTEM



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

Big Dishes directly from our warehouse!
KTI, ORBITRON, IRTE

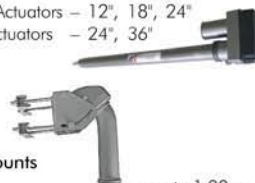
- SDI 1,50 m
- SDI 1,80 m
- Mesh 3,10 m
- Mesh 3,70 m
- Irte 2,00 m
- Irte 2,40 m



Motors

Aktuatoren/ Actuators

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

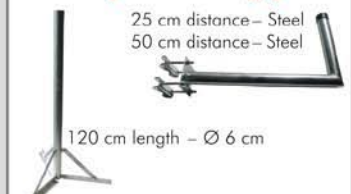


H-H Mounts

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

Balcony mounting parts

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



ALSO AVAILABLE:

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



Edited by
Branislav Pekic

EUROPE

EUTELSAT TO LAUNCH TOW SATELLITE

Eutelsat plans to launch satellites that can prolong the lifetime of other satellites by towing them through space, creating millions of euros in savings, according to Financial Times Deutschland. The paper claims that there are already contracts with the UK's Orbital Satellite Services, who will build the tow-satellites. Orbital head Baard Eilertsen confirmed the company plans to launch tow-satellites in 2011. The tow-satellite's lifetime will likely be about 10-12 years.

ANDORRA

STA DEPLOYS CONVERSE IPTV SOLUTION

Converse has announced that STA, the Andorran Telecommunications operator, has enhanced its triple play offering by deploying the Converse IPTV solution. Upon launch, STA's new triple play offering will include IPTV with MPEG 2 and MPEG 4 encoding, a Conditional Access System (CAS), and Digital Rights Management (DRM). These services will be delivered over STA's new fiber-to-the-home (FTTH) network.

AUSTRIA

TELEKOM AUSTRIA TO EXPAND IPTV SERVICE

Telekom Austria is currently signing up an average of 1,000 new households each week for its IPTV service, aonTV, and hopes to extend coverage to 50% of the country's population by the end of this year. Telekom Austria is aiming to expand its IPTV content portfolio to around 100 channels by late 2008. It has also announced an agreement with On Demand Deutschland that will see aonTV's VOD line-up increase to more than 500 movies.

BELGIUM

BELGACOM TO LAUNCH HD OVER IPTV IN APRIL

Belgacom has confirmed that it will start broadcasts of high-definition programmes on its "Belgacom TV" IPTV service this April. The HD broadcasts will require a VDSL2 line, which Belgacom says will be available to 60% of Belgian homes by this April. According to reports, Alcatel-Lucent has been updating the infrastructure for the service and Nokia Siemens Networks has been developing the set-top boxes

CROATIA

T-HT ORDERS IPTV EQUIPMENT FROM ERICSSON

T-Hrvatski Telekom (T-HT) has placed two equipment orders worth a total of HRK10 million (USD2 million) with Ericsson Nikola Tesla, the local division of the Swedish technology giant. One contract is for the delivery of IPTV equipment with a further order for quality measurement systems.

FRANCE

NEUF CEGETEL SIGNS UP 750,000 IPTV SUBSCRIBERS

Neuf Cegetel has announced that it reached 750,000 subscribers for its IPTV service at the end of last year, up from 600,000 at the end of June 2007, as well as adding five new international channels. Neuf Cegetel also had 3.22 million DSL customers at the end of 2007, up from 2.2 million at the end of the previous year, giving it a 21% share of the French broadband market. Neuf Cegetel

recently added five new international channels to its IPTV service: TV Record Europa, Record News, CLP TV, Apsara TV, and Guyson TV.

GERMANY

DEUTSCHE TELEKOM TARGETS 500,000 IPTV SUBSCRIBERS

Deutsche Telekom has set itself an aggressive new IPTV subscriber target of 500,000 customers by the end of this year, according to CEO René Obermann. DT ended 2007 with 150,000 orders for its Entertain IPTV service, of which 116,000 had been connected, representing a growth of 100,000 orders during the 4Q of 2007. The operator ended 2007 with more than 9 million retail DSL customers in Germany.

GREECE

ON TELECOMS SELECTS NEPTUNY'S CAPLAN PLATFORM

ON Telecoms has deployed Neptun's Caplan-IPTV Edition platform to support its IPTV service. The operator is using Caplan-IPTV Edition to ensure efficiency of its existing systems and optimise the allocation of its IT resources as well as provide a strategic view in order to help predict trends in demand for services. ON Telecoms has already deployed a metropolitan fibre network in Attica passing 1.3 million households.

LITHUANIA

TEO ENDS 2007 WITH 17,500 IPTV SUBSCRIBERS

TEO has announced that its number of IPTV subscribers increased 350% in 2007 and reached 17,500 by year-end. IPTV services accounted for 1.1% of the company's annual revenue, which totalled LTL 793 (US\$339.67 million), up 8% from 2006. TEO had 258,600 broadband subscribers by the end of 2007, up 43% from the previous year.

NORWAY

THOR 5 SATELLITE SUCCESSFULLY LAUNCHED

A Proton launch vehicle successfully lifted the THOR 5 satellite into orbit on February 12, marking the first mission of the year for ILS, and the second Proton flight in two weeks. The THOR 5 satellite will operate at 1 degree West, where it will deliver broadcast and interactive services across the Nordic region, Europe and the Middle East for Telenor Satellite Broadcasting. THOR 5 is a STAR 2 model spacecraft built by Orbital Sciences Corp.

RUSSIA

EXPRESS-AM33 RACHES ORBITAL POSITION

Russian Satellite Communications Co. (RSCC) expects to begin commercial operations of its new Express-AM33 telecommunications satellite by early March following a successful January 28 launch by a Russian Proton-M rocket from Russia's Baikonur Cosmodrome in Kazakhstan. The Express-AM33 satellite carries 10 C-band and 16 Ku-band transponders, plus a single L-band transponder. It will operate from 96.5 degrees East and will serve customers in Russia and in the Asia-Pacific region. RSCC has plans to launch the Express-AM44 satellite in mid-2008.

SWEDEN

SIRIUS 4 SATELLITE OPERATIONAL

The Sirius 4 communications satellite is now in full operation and has taken over all transmissions from its predecessors, Sirius 2 and Sirius 3. The satellite was launched by SES Sirius on 18 November 2007. Sirius 4 is intended to meet the increased demand for HDTV broadcasts in the Nordic countries, and the increase in new television channels within eastern Europe. Sirius 4 is expected to be in operation for at least 15

years, and will accommodate broadband communication as well as television broadcasts.

UNITED KINGDOM

ORANGE DELAYS FULL IPTV LAUNCH

Orange has delayed the full commercial launch of its IPTV service until later this year. The company recently said that it was on track to launch commercially before the end of 2007. But the service has been rolled out only on a trial basis to around 300 paying Orange customers in London and Leeds.

NORTH AMERICA

CANADA

HDTV NETWORKS TO LAUNCH 8 TV CHANNELS

Canadian fast food and satellite radio executive John Bitove made his bid to federal broadcast regulators for a new national TV network in high definition. The proposal, which is facing opposition from Canada's other big broadcasters, would see Bitove's company, HDTV Networks, launch eight TV stations across the country. The network wants to broadcast a high-definition signal over the air, meaning it would be available to viewers by antenna rather than requiring a cable or satellite subscription. In addition to broadcasting its signal free over the air, HDTV Networks wants to be carried as a national network on cable and satellite TV services.

UNITED STATES

FIOS TV TOPS ONE MILLION CUSTOMERS

Verizon has topped one million customers for its IPTV service, FiOS TV, which it launched just over two years ago and has since rolled out across 13 states. According to the company, 2007 was the biggest year yet for FiOS TV, in 2007, with 226,000 customers added in the fourth quarter alone. Verizon added it was on target to provide 150 HD channels via its IPTV service by the end of 2008.

LATIN AMERICA

ARGENTINA

TELECOM ARGENTINA TO START IPTV TESTS IN JUNE

Telecom Argentina is planning to begin technical tests of its IPTV service in June. However, there is a possibility that the commercial launch of the service may be postponed until the government permits telecom companies to offer broadcasting services. Telecom Argentina, and its competitor Telefonica de Argentina, have been waiting to enable this service once the current legislations are relaxed.

BRAZIL

GVT CONFIRMS IPTV LAUNCH FOR JULY

GVT has confirmed its plans to launch a video on demand (VOD) IPTV service by July of this year. According to the Vice President for GVT's residential market, Alcides Troller Pinto, they will offer IPTV via VOD in all state capitals and cities with more than 200,000 people where the company has operations.

COLOMBIA

ETB DELAYS IPTV TENDER

Empresa de Telecomunicaciones de Bogotá (ETB) has postponed its plans to launch a tender for the hiring of an IPTV content and equipment supplier, due to a new National TV Law bill, according to local media reports. The tender was expected for mid-January, and has been postponed as the new bill involves the unification of regulatory bodies, thus affecting the cost and characteristics of pay-TV licences and costs. The delay will however almost

certainly affect the telco's date for launch of an IPTV service, named as September 1 of this year.

NETHERLANDS ANTILLES TELEFONICA BONAIRIANO SELECTS SECUREMEDIA

Telefonia Bonairiano (Telbo) has selected SecureMedia's Encryptonite ONE content protection system its newly launched "mitv" IPTV service. The IPTV service was developed by Telbo and consultancy firms Savant Communications and Manycast Consultancy. The service consists of a basic package of around 40 channels including HBO, Discovery and Fox, and Telbo will also offer the Dutch public channels (Nederland 1, 2 and 3) which will be inserted into the head end via optical submarine cables.

ASIA & PACIFIC

INDIA TRAI IN FAVOUR OF CABLERS OFFERING IPTV

Broadcast regulator TRAI is considering allowing registered cable operators to provide IPTV without a new license, while proposing a revenue related license fee for telecom firms giving the service. In its final draft recommendation, TRAI said registered cable TV operators would not require any further license. Telecom service providers having license to provide triple play services and ISPs with net worth more than Rs 100 crore will not require any further registration to provide IPTV.

ISRAEL SPACECOM REJECTS SES'S US\$ 350 MILLION BID

Israeli satellite operator Spacecom said its board has decided to reject a US\$ 350 million offer by SES for most of its assets and operations, disagreeing with the Luxembourg company's plans for the business and judging the offer price to be too low. Directors also felt the terms and conditions were 'very burdening' and create a real risk to the prospects of the deal being executed, Spacecom said. SES wanted to buy Spacecom's Amos-2 satellite, the Amos-3 satellite after it becomes operational, the rights to the 4 degrees West orbital position and the agreements of Spacecom's customers on the Amos-1, 2, and 3 satellites, with these assets being clear of all debts.

SINGAPORE STAR HUB AND MEDIA CORP IN HDTV CONTROVERSY

A disagreement between StarHub and MediaCorp has prevented some viewers from tuning in to the full spectrum of crystal clear programmes on their HD TV sets. More than 499,000 StarHub subscribers now receive MediaCorp's regular free-to-air channels, like Channel 5, via their cable set-top boxes, but they cannot yet tune in to new free HD channels. This is because MediaCorp and StarHub are deadlocked in discussions to bring such channels to cable customers. To watch programmes on MediaCorp's new HD5 channel they will have to buy another set-top box.

SOUTH KOREA DAUM TEAMS UP WITH MICROSOFT TO LAUNCH IPTV

Daum, has sealed a deal with Microsoft and Celrun in order to provide new services for the IPTV market. Whilst Celrun has agreed to produce the hardware, Microsoft has said that it can provide support for the services as well as publicize the product internationally. Daum's role includes the provision of IPTV content and support for operational procedures. The service will launch in the second quarter of 2008.

HANAROTELECOM SIGNS OUTPUT DEAL WITH DISNEY

Hanarotelecom has signed a deal with U.S. entertainment giant Disney to provide movies through its Internet-based TV service. Under the deal, HanaTV customers will be able to view popular movies and animations such as the "Pirates of The Caribbean" and "Finding Nemo." Launched in 2006, HanaTV has attracted more than 800,000 customers.

TAIWAN VASTAR REVEALS IPTV PLANS

Vastar Cable TV System, based in Taichung County in central Taiwan, has revealed plans to launch an IPTV service. Vastar reportedly plans to provide triple-play services of voice, data and VOD in order to compete with local IPTV provider Chunghwa Telecom. Vastar's triple play service can also be integrated with the company's WiMAX operations in the future. The company is currently establishing infrastructure based on its existing cable TV network in order to begin the operation of fixed-line voice communication services in central Taiwan by the end of this year. Vastar has selected Ethernet solutions from Nortel.

AFRICA

AFRICA RASCOM'S SATELLITE TO LAST ONLY TWO YEARS

Thales Alenia Space has said the Rascom-QAF1 trans-African telecommunications satellite it built, which had a helium leak, can be restored to its planned orbit but that its operating life will be 2 years instead of the planned 15. The helium leak forced engineers to use much of the craft's maneuvering propellant reserves to reach its final orbit. Rascom-QAF 1 is the world's first pan-African satellite, designed to beam telephone, Internet and DTH TV services.

OCEANIA

AUSTRALIA FOXTEL ANNOUNCES HDTV SERVICE

FOXTEL has unveiled "HD+", its new high-definition service that will broadcast exclusive content to customers later this year. According to CEO Kim Williams the service will combine regular standard-definition (SD) programming with exclusive high-definition (HD) channels from the BBC, Discovery, National Geographic, Fox Sports and ESPN. The Foxtel Box Office will also be offering on-demand movies in HD format. Foxtel also announced the "IQ2", an upgrade to its IQ set-top box product, which will be the only way to access the HD+ service.

NEW OPTUS SATELLITE OPERATIONAL

Optus has switched on its newest satellite, expanding its telecommunications capacity for rural and regional Australians. The Optus D2 satellite, which was launched on October 5 last year, has been made operational after completing a series of in-orbit tests. The Optus D2 satellite paves the way for the decommissioning of the ageing Optus B3 satellite, which has been in orbit for more than 15 years. The satellite will provide rural and regional Australians with enhanced capacity for VSAT and extended reach for DTH services. The next satellite in the series, the Optus D3, is currently under construction and scheduled for launch next year

TERRA

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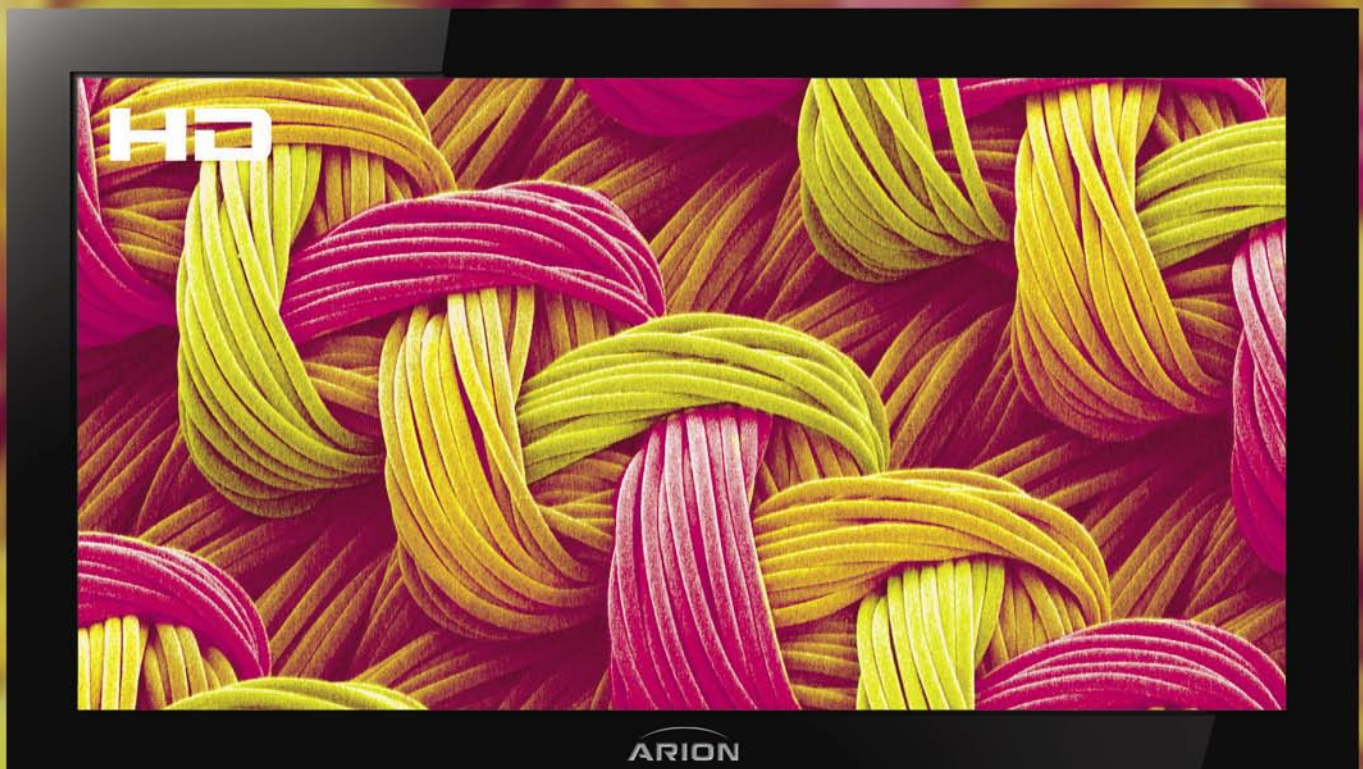
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Development and Application of 3D Diffractive Antennas

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Fresnel zone plate (FZP) antennas have existed for many years – TELE-satellite has reported on a sample in issue 05/2003. FZP are a type of diffractive antenna. The original concept of the zone plate evolved from the work at optical frequencies by Augustin Fresnel in the early nineteenth century [1]. There has been a renewed interest in their design over the past few years for applications in the microwave and millimeter band, where they offer attractive advantages over shaped lenses and traditional parabolic antennas like simplicity of construction, greatly reduced thickness, light weight, and low cost.

Circular Fresnel zone plate lens antennas are planar and consist of rings which alternate between transparent and opaque (metal). The metal rings coincide with the alternating 180° phase zones on the surface of the antenna aperture. They block the electromagnetic (EM) waves from the source, placed at the focus of the lens, that are 180 degrees out of phase relative to the center of the aperture. The EM waves that hit the opaque regions diffract through and combine to collimate a beam in the far field.

Flat antennas are developed as an alternative to parabolic antennas. These are essentially stripline antenna arrays. The advantages of flat antennas are: compact design, light weight, easy handling and simple installation on house walls. Such antennas readily comply with the interior design of living spaces, both structurally and esthetically, and have high manufacturability (printed circuits technology can be used) etc.

In general, FZP lens antennas can be made with any arbitrary shape surface. However, more practical are zone plates with axially-symmetric, rotational silhouettes.

An alternative to smooth reflector and flat antennas can be diffractive antennas of lens and reflector types. Furthermore, the

asymmetric design of diffractive antennas permits the designer to get rid of aperture blockage by shifting the irradiator.

Another promising but not yet suffi-

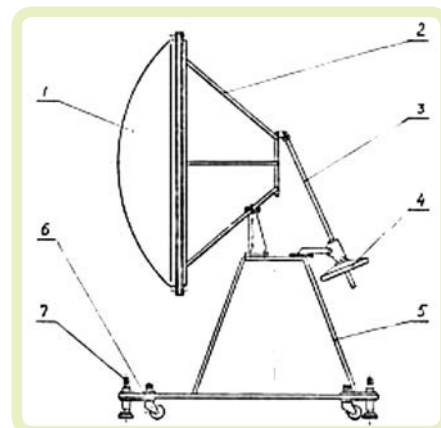


Diagram of a pilot design of diffractive antenna for reception of satellite TV signals (material – foam-polystyrene, n=1.3, diameter 1.2 m).

ciently developed approach to the design of multibeam antennas and scanning systems is the use of electric and magnetic fields to change the refractive coefficient and other optical properties of certain materials.



Flat (right) and paraboloidal (left) diffractive lens antennas at 35 GHz.

Characteristics of Parabolic and Diffractive Antennae

Parameter	Parabolic antenna	Diffractive antenna
Optical schematic diagram	Focal point in front of the antenna	Focal point at the rear of the antenna
Blockage	Yes	No
Shape of surface	Fixed, parabolic	arbitrary
Material	Metal	Dielectric
Electromagnetic compatibility	Low	High
Noise immunity	Low	High (the antenna is a frequency filter)
Precision of surface machining	$\pm\lambda/32$	$(\pm\lambda/5... \pm\lambda/10)$
Frequency band	Wide: from 0 to f	Variable
Need for cowling (radome)	Cowling required	Cowling not required
Multi-beam mode	Constrained	+/- 15°-30°
Satellite focussing	By rotating the entire antenna	Only the receiver moves
Demands on rotating support mechanism	Increases as antenna diameter increases	Mild



Lens antennas are aperture antennas of optical type. In general, a lens antenna consists of an irradiator and a lens. An irradiator must have the phase centre coinciding with the lens focal point, and must form the beam pattern for the required amplitude distribution on the emitting surface and create minimal loss to energy «spilling» over lens edges.

As for the comparative characteristics of beam patterns of the parabolic and diffractive antennas, the following important aspects must be mentioned:

- When a beam in a parabolic antenna is tilted by moving the irradiator, the zeros of the beam pattern "smear over", the main scattering lobe is broadened, the side lobes grow significantly and the gain diminishes.
- The situation is different with diffractive antennas. Both the width of the beam pattern and the amplification change insignificantly while the level of side lobes increases much slower than in the case of the parabolic antenna.

For the reception of satellite TV signals the main advantages of such antennas would be:

- a system of detectors placed along the focal surface of the stationary antenna can be used for simultaneous reception of signals from several satellites;
- Application of lens-type antennas permits two effects to be achieved at the same time: using this antenna as aerodynamic radome for lowering wind loads, and improving the operating conditions for the reception unit by protecting it from the aggressive factors of the surrounding environment;
- It becomes possible to design the external appearance of the antenna almost arbitrarily;

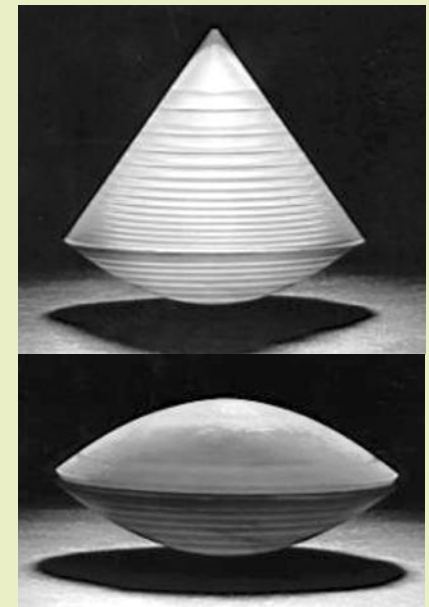
Typically satellite television antennas require low-noise high-sensitivity amplifiers, commonly known as LNB. Amplifiers of this type can be driven or saturated by short "surges" of high-amplitude noise. A conventional antenna simply amplifies such "noise surges". Diffractive antennas are less sensitive to such short noise "surges", thus reducing the probability of noise-driving in low-noise amplifiers. Modulated data vary slowly with time relative to the carrier wave (10-12 GHz) in TV satellite communications. The gain of the diffractive antenna is the sum of gains in each zone at the corresponding moment of time. Therefore a high-amplitude short noise "surge" can be amplified by only a limited number of zones. Consequently, the amplification of this surge will be reduced compared to the total signal amplification, so that the low-noise amplifier cannot be driven or saturated.

A sufficiently serious problem of protecting antenna icing arises in a number of countries. The design of diffractive antennas working in the radiation reflection mode makes it possible to create antennas with heating that operate under conditions of snow and ice covering. To achieve this, all metal coated radiation-reflecting zones in half-wavelength or multilevel antennas are electrically connected into a heater circuit, and electric current is run through it. Therefore, the problem of special heating devices is automatically eliminated for such type of antenna – their role is played by metalized Fresnel zones. Designs similar to these may also prove useful in space when it is necessary to protect spacecraft's antenna from temperature-induced strains.

3D Diffractive microwave focusing ele-



Pilot model of a heated diffractive antenna: the metal rings, of which the diffractive antenna consists, are double used as a heater



Three-dimensional diffractive antennas of various shapes.



Application of a 3D diffractive antenna for satellite TV reception.

ments have very extensive potential, not yet implemented, and can be applied to most different fields in industry, medicine etc.

References.

1. Fresnel, A, "Calcul De L'Intensite De La Lumiere Au Centre De L'Ombre D'Un Ecran Et D'Une Ouverture Circulaires Eclaires Par Une Point Radieux", Oevres d'Augustin Fresnel, Vol.1, Note 1, pp.365372 (1866). Reprinted in J. Ojeda Castanada and C. GomezReino, Selected Papers on Zone Plates, SPIE Milestone Series Vol. MS 128 (1996).
2. I.V. Minin, O.V. Minin. Three dimensional Fresnel antennas / in Advances on Antennas, Reflectors and Beam Control, ed. Antonio Tazor, Research Signpost, Kerala, India – 2005, p. 115-148.
3. O.V.Minin, I.V.Minin. Diffractive optics of millimetre waves. – IOP Publisher, Boston-London, 2004. – 396 p.

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该类首款：环球 Invacom 公司的光缆 LNB

首次测试：光缆连接 LNB 的实际接收测试

在 前期的《国际卫星电视》中，我们首次报道了由英国制造厂家环球 Invacom 公司生产的一款光缆连接的 LNB。当时它是庞大实验室里唯一的样品。现在，环球 Invacom 公司已经拿出十款原型光缆 LNB，以便让这项崭新的创新技术能够真正进行实测。环球 Invacom 公司在《国际卫星电视》奥地利测试中心进行了他们的第一次公开测试。两个环球 Invacom 公司的代表，项目经理安德鲁·考勒和技术员诺曼·哈利斯来到维也纳，在现有的 90 cm 偏馈天线上安装上了他们的光缆 LNB，并用光缆将 LNB 信号引到了实验室。

在安装过程中，安德鲁·考勒和诺曼·哈利斯解释了新型 LNB 的实际工作原理。很简单，内建于 LNB 的一个堆栈存储器对应着四种极化接收方式(垂直的高、低波段和水平的高、低波段)的四个频率范围。

射频信号被转换成数字信号后，再以激光束的形式通过光缆传送。在光缆的另一

端，激光束被一个转换器接收，被还原成任何标准数字卫星接收机所接受的普通卫星信号。

我们注视着环球 Invacom 公司的员工在安装测试系统，显然，这家公司的目的是想要介绍说该系统的每一个安装步骤都非常简单。

该 LNB 的特点是有两个接口，一个的标准“F”接口(就



环球 Invacom 公司的光缆 LNB: 10 个手工制作的全能原型中的第 9 个。

评论

环球 Invacom 公司的总经理托尼·泰勒和他的顾问团队既杰出又让人羡慕，他们做出了一项关于未来新技术的决策，它将会给整个卫星产业带来巨大影响。他们不得不回答诸如此类的问题：光缆 LNB 将会使用哪种接头？即使它还没有被考虑在户外应用，我们还将沿用现有的标准吗？我们如何使光缆接口抵御不良天气？现在在商店销售的光缆是否耐用或防水呢？

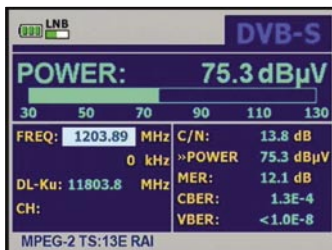
还有更难以回答的问题：光缆 LNB 得到生产许可了吗？可以向其他的制造厂家提供技术细节吗？

光缆 LNB 和转换器的订价是怎么样的呢？价格太高将会延缓市场上的销售，任何新技术的出现同时会造成其它技术支持的低价竞争产品的发展，最然后会导致标准的混乱。

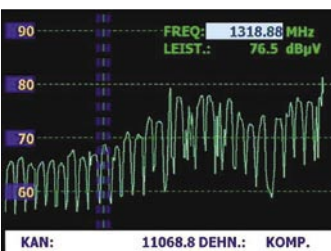
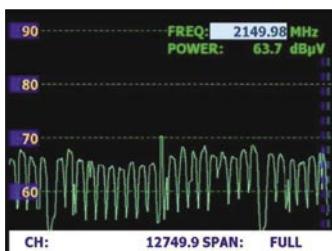
而所有问题都归结于：如何在市场上销售光缆 LNB？是叫‘光缆 LNB’ 还叫其它新名字？“激光 LNB” 怎么样？最后：怎样才能说服卫星接收机制造厂家把光缆 LNB 接入到他们的机器里？

只有一件事情是确定的：环球 Invacom 公司将会找所有这些问题的正确答案！

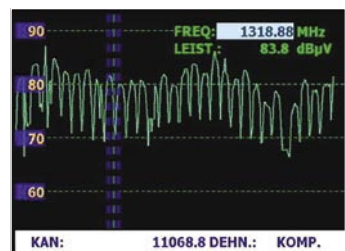
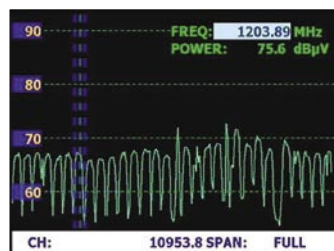
亚历山大·维思



测量在 13 °E 上 HOTBIRD 卫星的 RAI 转发器的信号。传统的单体 LNB(左边) 和环球 Invacom 公司的光缆 LNB(右边) |



低端垂直波段(传统的单体 LNB 在左边, 环球 Invacom 公司的光缆 LNB 在右边) |



低端水平波段(传统的单体 LNB 在左边, 环球 Invacom 公司的光缆 LNB 在右边) |

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像其他任何典型的 LNB (一样) 和一个光缆接口。在前期的《国际卫星电视》上已经提到,“F”接口是用来向 LNB 供电的。环球 Invacom 公司正在考虑是使用一个低电压接口来供电或用现有的“F”接

环球 Invacom 公司也将会提供两端带有接口的光缆,以满足任何长度的需求。暂时还将继续使用标准 FCPC 接头,虽然制造厂家会在将来研发出一种新的接口系统。



诺曼·哈利斯(左边), 环球 Invacom 公司的技术员, 安德鲁·考勒, 环球 Invacom 公司的项目经理, 在《国际卫星电视》奥地利测试中心安装环球 Invacom 公司的新型光缆 LNB 和 90 cm 偏馈天线。

口来供电, 两个月内就会作出最后决定。保存“F”接口的优点是用户就用光缆连接 LNB 处理数据, 而现有的同轴电缆只是负责对 LNB 供电。

标准的光缆可以用来在 LNB 和转换器之间传送信号。由于这种光缆已经在现代的电讯网络中变得普通, 在过去的几年里价格已经显著下降, 而现在在大约是每米 1 €。

所以, 价格是这项新技术的一项优势。标准同轴电缆的价格一直保持着上涨, 原因是全世界铜的价格在不断上涨。要记住的是, 光缆不仅需要特别的设备和许多熟练的技术, 还总是要附有接头, 改变光缆接口还需要一些时间。

一旦信号被转换成光波, 它就通过光缆传送到第一个节点或直接到达接收机。纤细的光缆能够传送整个卫星所有频率范围的信号, 并能用无源分支器分配。

如今, 大多数的 MDU 网络分配开关在这套系统里失去了用武之地。

当这个系统的信号到达机柜的时候, 它将会分送到多达 16 路的光缆里。随着时间的推移, 这个数字还将会无限地增加, 因为它只取决于激光束光学能量的大小, 实际上取决于制造厂家依据实际需要确定的能量大小。最初两个 LNB 由于要求不同而额定输出能量也不同: 少的为

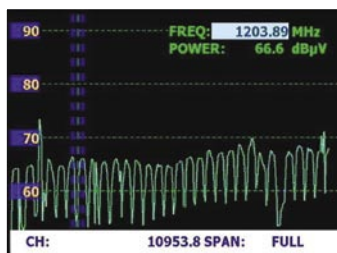
16 个 MDU 网络节点, 多的为 96 个。对于一般的家来说, 这意味着信号从 LNB 出来经过光缆到达一个或几个中央节点, 然后再经过更细的光缆被分配到各个房间。不像那些比较粗的同轴电缆, 这些细的光缆更容易进入到现有墙壁里的线束管路里, 即使这些管路已经塞满其他线缆。除此之外, 光缆还抗任何类型的干扰。甚至在没有任何选择的情况下, 光缆能路过功率最强大的电机而本身丝毫不

受影响。在各个房间里, 光缆信号被送入一个转换器, 由其分出两路(以后可以分出四个)与标准卫星接收机的一进一出调谐器连接。在照片里显示的转换器只是一个原型而不是最终的设计。真正的体积将会更小, 以使其便于隐藏, 要么像一个卫星信号分支器或电插座那样来安装。这样, 它就能完全地隐藏起来。

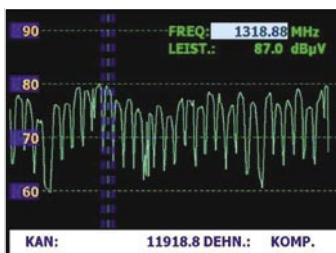
一根纤细的光缆能连接



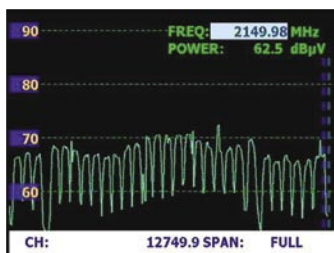
给所有安装者的提示: 光缆连接不只是简单地接在一起, 之前要处理得非常干净才行。可以使用各种不同的方法来弄干净。实际上最常见是用这里显示的装置: 将光纤接头插入, 然后用一张一次性的非常细的砂纸来研磨清理接头。这是保证连接没有任何信号衰减唯一的方法。



高端垂直波段(传统的单体 LNB LNB 在右边) |



在左边, 环球 Invacom 公司的光缆



高端水平波段(传统的单体 LNB



在左边, 环球 Invacom 公司的光缆 LNB 在右边) |



环球 Invacom 公司强力推荐使用装配好接头的光缆。如果光缆需要连接起来以增加长度的话,应该使用如图显示的接头。这样,任意长度的光缆就可以连接起来了,短到几百米,长则上公里。照片实例显示的是一根直径只有三毫米的纤细光缆。

四个卫星接收机调谐器。此外,环球 Invacom 公司正在计划将 DVB-T 信号也加进光缆。这会让你的一台含有 DVB-T 调谐器或接有 DVB-T

机顶盒的电视机可以连接二或四个卫星接收机。这样,纤细的光缆可以一缆多用,用来传输所有类型的数字媒体内容。这样,你就不会再被

照片中所见到的黄色光缆所愚弄了,这些都是实验室选取的样品。最终市场实际销售的光缆颜色会更柔和些,如灰色或白色,如果你能买到的话,也可以是你喜欢的亮绿色。

日常使用

在奥地利维也纳的《国际

卫星电视》测试中心,我们选择使用的测试装备是一个 90 cm 的天线和 40 毫米的馈源支架。第一步,我们安装好标准的单体 LNB,使用 Promax 的电视探险家 2 型频谱仪(下期《国际卫星电视》将会刊有其测试报告)将天线对准了 13° E 的 HOTBIRD 卫星。接下来,在环球 Invacom 公司专业人员安装其光缆 LNB 之前,我们保存了频谱分析仪关于 HOTBIRD 卫星所有四种极化信号接收的结果。

他们安装完毕后,我们就惊异于信号分析仪的结果,在看到第一眼时就知道有相当大的不同——我们的意思是指结果好得多。我们比较了所有四个极化的结果,发现光缆 LNB 都获得了更好的结果。光缆 LNB 的信号质量水平显著地提高,特别是与当初安装单体 LNB 时个别转发器微弱信号相比,结果更令人惊奇。

原因有两点:首先,光缆 LNB 是一种艺术级的高质量产品,第二,光学信号在传输过程中几乎没有任何衰减——真实的衰减数值是每公里才大约 0.3 dB!

我们在测试的开始时用了 一个 2 分支器,但是我们在领教了这个新系统的优异性能之后,我们决定请环球 Invacom 公司的代表将光缆 LNB 输出的信号分配出 16 路来。其最多可以接驳到 64 个卫星调谐器。

测量数据验证了我们开始的预期:根据电视探险家 2 型频谱仪的测量结果,没有任何失真,在频谱仪上显示的结果非常完美。

我们甚至能够想像得出这个系统给安装者们脸上带来的微笑,直到现在,当他们在处理信号分配时还总是苦于信号衰减、干扰和增益降低



这是我们实际测试的情形: 左边两个转换器,它可以将光缆信号分成两个同样的卫星信号。这样,就能连接上两个卫星接收器而且它们操作彼此完全独立。在上期的《国际卫星电视》中的第 46 页,同样的装置是一件实验室样品。环球 Invacom 公司已大大地减少了

其体积,待到实际推出时体积会更小。在照片的中心是 1 分 4 的光缆分支器(在上面)和 1 分 2 的光缆分支器(在下面),两者都可用光缆来分配电讯信号。右面是为这次测试而手工制作的光缆 LNB 原型。

这就是我们的测试:来自光缆 LNB 的信号被导入转换器,从转换器出来的卫星信号被连接到 Promax 电视探险家 2 型信号频谱分析仪的输入端,输出端连接到我们的笔记本电脑,屏幕上图片记录了测量结果。



等。

总的看,这项新的技术给我们留下了非常深刻的印象。如果这还不足以打消你的疑虑,那么经过我们测量在 11804V 转发器上意大利公共广播公司 RAI 的信号后,所有怀疑都不复存在了。我们测得光缆 LNB 传送的信号水平为 86.7 dB μ V,远高于曾经从单体 LNB 收到的 75.3 dB μ V。

还有,更重要的是光缆 LNB 的 C/N 和 MER 值要更好。为了公平起见,我们也必须提到,单体 LNB 是在干燥的天气情况下测试的,而为了证明光纤 LNB 的价值不得不在刚安装完毕后的小雨中继续进行测试。我们可以放心地说,光纤 LNB 的 C/N 和 MER 值在干燥天气条件下会更好。

应用领域

从最真实的感觉讲,环球 Invacom 公司已经开发出的这个新系统符合所有用户的需求想法。除了单个的使用者和家庭之外,这种技术还特别适合公寓楼和多户家庭的楼宇。来自光缆 LNB 的信号被传送到中央节点,然后分配到每户公寓并提供足够的输出能量。

进一步想,在遥远或乡下的地方,可以建立一个小规模的地方有线网络,在中央位置接收的卫星信号可以再分送到光缆网络里。在环球 Invacom 公司的测试中,经过 12 公里长的距离没有明显的信号能量衰减(每公里仅有 0.3 dB)。

考虑这样的事实吧:光缆可以很容易地装入现有任何的管路系统,对于现有的同轴电缆网络,这是切实可行的办法,同时还避免了信号衰减和干扰的麻烦。

未来展望

不仅只有环球 Invacom 公司确信卫星信号分配领域的拐点已经到了,还有我们《国际卫星电视》的这些人也相信环球 Invacom 公司的未来发展道路已经因为光缆 LNB 可能变成一条超级高速公路。只要想像每一个卫星接收机都将接收标准信号的同轴电缆直接改为接驳光缆 LNB 就够了!而且不仅如此——个人计算机、电视、DVD 播放机全部都成为一个网络的成员,并通过细得几乎看不见的缆线相互交换数据,各种内容和各种形式的信号,在任何时间里都可以传输,不管它是

从 DVB-S、DVB-T 来还是从互联网来。

从对光缆 LNB 的介绍来看,环球 Invacom 公司创造了一个传输领域真实的里程碑。我们在今后的日子里有更多的厂家加入到这个行列里来,不断为我们提供改变我们生活体验的多媒体产品。

不幸的是,环球 Invacom 公司还没准备好披露任何的订价信息,最后的细节只能在不久后正式向市场推出前得到。开始时,光缆 LNB 会被设计成只接收一个卫星的信号,然而环球 Invacom 公司正在拓展这个系统,并计划

在稍后的时间里提供多路光缆。像任何其他的标准电缆一样,新开发的产品将会可以接收二、三或四个卫星的信号,同时分送出去,以使每个终端机器能够随时接收这些卫星的任何信号。

环球 Invacom 公司还计划把包括激光装置放入一个独立于 LNB 之外的盒子里,光缆 LNB 的体积就能减少,而激光装置就可以放在天线柱上不显眼的地方。光缆 LNB 的正式销售将在 2008 年 6 月/7 月开始,只要第一款产品出现在商店里,《国际卫星电视》将会进一步聚焦最新的产品。

专家的意见



Thomas Haring
TELE-satellite
Test Center
Austria

+

事实上,光缆 LNB 的主要优点是卫星所有四种不同极化的信号强度水平经过光缆传送而没有衰减。因此,信号几乎可以无限制地分送出去,无损耗地到达每个独立的用户。

另外的一个优点是这个系统可以远距离传输而不降低信号质量。光缆非常纤细而且具有柔性,它们可以轻易装入任何现有管路系统之内。与同轴电缆相比,非常低的信号衰减使长距离传输仍然保留了足够的信号增益(如我们在测试中,信号分析仪到天线足有 50 米的距离)。较高的 C/N 值带来的增益对于能否将微弱信号再现到电视屏幕上起着决定性作用。材料成本低(大概每米光缆为 1 €,每个 2 分支器为 25 €,二四分支器为 60 到 70 €)则是另外一个使人支持这个创新系统的令人信服的理由

-

实际上,抛开事实单纯地想,没有人认为光缆的需要会大大超过标准同轴电缆。除此之外,重要的是要积极地建立这套系统以使光缆顺利地传送信号,可以肯定的是,用户会喜欢这项全新的技术。

TECHNIC DATA

Manufacturer	Global Invacom, Essex, UK
Website	www.global-invacom.com
E-Mail	sales@invacom.com
Tel	+44-1621-743440
Model	Optical LNB Handmade Evaluation Prototype
Function	Universal single LNB with optical output and stacked frequency ranges
Reception range	10.7-11.7 GHz/11.7-12.75 GHz
Power supply	13/18V over "F" connector
Optical connection	FCPC

Topfield TF7720HSIR

端庄典雅, 内建 Irdeto 读卡器的 HDTV 接收机

电视高清化是近年来出现的一个趋势, 而高画质的节目也越来越多地出现在付费电视上。一些制造业者看到了这一点, 将完整加密系统的 CI 插槽作为高清电视接收机的通用配置。韩国制造厂商 Topfield 公司携其新款 TF7720 HSIR 加入到了这个行列。

接收机银色的外观为流行风格, 可以和任何电视架融为一体。像其它 Topfield 接收机一样, 该机前面板上的五个按钮可以在没有遥控器时来进行操控, 还有四个数码字符显示管, 而三个 LED 显示着机器目前的操作状态。面板的右边舱门里隐藏着兼容 Irdeto 加密方式的读卡器。

接下来, 让我们看一看其完备的后面板, 它符合所有的连接需要。除了可以接驳所有高清电视产品的 HDMI 插口之外, 你还可以找到一进一出卫星信号接口、两个欧插、六个 RCA 插座, 可以接驳各种视频音频信号和 YUV 及光纤音频输出接口, 还有一个 RS-232 接口, 可以把接收机连接到一台个人计算机上。

遥控器握在手里手感极佳, 其设计精心的按钮分布和清晰的功能标注, 令人赏心悦目, 使它成为 TF7720 HSIR

的完美伴侣。在各种不同的测试中, 我们甚至还发现该遥控器也完全可以控制其它 Topfield 机器。举例来说, 当我们操控房顶上极轴天线



接收 HDTV 时醒目的信息条!

的那款略微过时的 TF3000 CIPro 接收机, 它也接受我们从这款遥控器上发送的任何指令。

随机的使用手册清晰明了, 在适当的地方都配有插图, 并用通俗易懂的语言解释接收机的功能特性, 使你感受到使用这款新机器的方便。



接收 HDTV 时醒目的信息条!

菜单之前, 它必须要设置好天馈系统参数并进行频道搜寻。

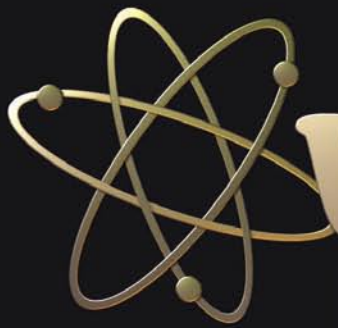
你可以开始按照个人的偏好来个性化地设置接收机, 如选择适当的 OSD 语言。除了英语, 还可选择法语、德语、意大利语、西班牙语、阿拉伯语、希腊语、土耳其语、丹麦语、瑞典语、挪威语、荷兰语、俄语、波兰语、波斯语、芬兰语、斯洛伐克语、捷克语和匈牙利语。事实上, 无需做更多的测试, TF7720 HSIR 可以在地球上的许多地方使用。

和所有其它 Topfield 接收机一样, 内建的时钟可以通过卫星来完成同步显示, 而使用者可以用特定的转发器或频道来设定这一功能。

日常使用

当你第一次打开任何一款 Topfield 接收机的时候, 它会立刻显示出主菜单, 而不是安装菜单, TF7720 HSIR 也不例外。并且, 在你离开主





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字。因此，最重要的是下一步要在这个有 5000 个频道的目录上进行重新排序。你可以直接在频道目录中排序，分类方式可以按照字母顺序、卫星、节目供应商、免费/加

像是图文电视文件、杜比数字音频、语言选项、加密技术、视频格式等等，再一次按下相同的按钮，TF7720 HSIR 就会显示更多的节目信息，前提是节目供应商提供相关信



通过 HDMI，可以输出 576p、720p 和 1080i 格式的视频，也可以设置接收机来自动选择正确的格式。

使用欧插连接，可以获得 CVBS、S 视频和 RGB 视频信号。没有手动的色彩制式设定的功能。当这些初始设定完成后，接收机需要知道连接的是哪一类的 LNB 及其地址。如果你用一个固定天线接收多个卫星，那么 DiSEqC 1.0 或 1.1 协议将会是你的正确选择，同时，若你拥有极轴天线，DiSEqC 1.2 和 1.3 (USALS) 协议都可以满足你的需要。

它总共预先储存了欧洲和亚洲的 134 个卫星上最新的转发器和频道参数。由于 TF7720 HSIR 能够兼容接收 C/Ku 波段信号，机内预先设置了多个 LOF 本振频率，如

果需要，也可以手动输入。频道搜索菜单非常清晰，它可以提供自动或手动搜寻整个卫星，也可以进行转发器搜索。

它也能手动输入PID 值。为确保接收机不错过任何一个频道，我们推荐使用活跃网络扫描。无论是自动搜索的速度还是准确性，都给我们留下了深刻印象。我们在测试扫描一个具有 90 个转发器的卫星时只稍稍超过 4 分钟，Topfield 接收机没有漏过一个频道。而一些最近的 DVB-S2 的转发器参数也被制造厂家预先储存在内了。

一旦扫描完成，频道目录就被填满，接收机就会让你退出主菜单，立刻切换到目录上的第一个频道。按下“OK”按钮，频道目录上就会出现林林总总的频道名

密、加密/免费或喜爱频道/非喜爱频道来进行。

如果你喜欢编辑频道以备长期观看，你就要进入主菜单的一个特定区域。在这里你可以将频道移动、重新命名、删除或者分类，这样你就可以在每天观看时浏览方便整齐的频道目录了。你可以将观看的频道移到喜爱节目的目录里，而对于那些不适合孩子观看的频道可以通过设定 PIN 码来锁住，只有输入正确的 PIN 码才能看到节目。

当你观看电视时，只要选择好一个新的频道或按下遥控器上的“信息”按钮，之后，一个设计优良的信息条就显示出来。除了当前节目的名称之外，它还显示接收的状态信息，还显示其它的信息，

息。这款新型 Topfield 接收机的 EPG，正如你对于一个高级制造厂商所期待的那样精彩，它能一次立刻显示一个或四个频道的信息。

使用这款机器换台也很惬意，不管是高清电视或标清电视，从不超过一秒钟。通过 HDMI 再现的节目真是非常亮丽，它会让你充满对高清电视节目的渴望。其清晰的用户界面给我们留下了完美的整体印象，这也反映出 Topfield 公司倾注的全部智力劳动，例如彩色功能按钮的使用技巧等。内建图文电视解码器的工作和副标题显示模式及声道选择一样可靠。

即使这样，制造厂家也没有满足于荣誉，而是坚持不懈地致力于不断改进接收机软件。如果你的天线指向19.2° E



7° W 卫星微弱信号的完美接收 |



主菜单 |



卫星目录 |

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专家的意见

+

TF7720 HSIR 是一款简洁而又优雅的高清卫星电视接收机,它具有读卡器,可以接收以 Irdeto 方式加密的付费电视频道。

它是一款理想的接收机,完全适合各种家庭的客厅。

-

无。



Thomas Haring
TELE-satellite
Test Center
Austria



由于具有低门限的调谐器,可以很好地接收 SCPC 信号 |

的 ASTRA 卫星,该机可以直接下载更新软件。你还可以把接收机连接到个人计算机上,从 Topfield 网站下载最新的版本之后再手动进行软件更新。

由于具有 Irdeto 读卡器,只要你有一个有效的 IC 卡,不用 CI 模块插口就可以接收以这种方式加密的节目了。当我们用一张 23.5° E ASTRA3 卫星上的 Euro1080 欧洲付费电视卡时,该改系统工作良好,甚至我们在使用一个停用一段时间后又恢复付费的卡后也工作正常。

一如往常,我们在测试完成前要进行调谐器门限的测试。为打消你的怀疑,我们在维也纳的实测位置,用 TF7720 HSIR 实际接收到了 40° E 上 EXPRESS A1R 和 75° E 上 ABS1 卫星 C 波段和 Ku 波段转发器上的微弱信号,结果令人印象深刻。

它还能接收到符号率为 2Ms/s 或多点的 SCPC 信号,这都高于 Topfield 标称的指标。



TECHNIC DATA	
Manufacturer	Topfield, Seongnam/Korea
Fax	+82-31-7082607
E-Mail	inquiry@topfield.co.kr
Model	TF7720HSIR
Function	Digital DVB-S, DVB-S2 HDTV Receiver with Irdeto CA
Channel memory	5000
SCPC compatible	yes (> 2Ms/s)
USALS	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
Scart euroconnectors	2
Audio/Video outputs	3 x RCA + 3x RCA YUV
UHF Modulator	no
S-Video	yes
Component output	yes
HDMI connection	yes
0/12 Volt connection	no
Digital Audio output	yes
EPG	yes
C/KU-Band compatible	yes
Power supply	90-250 VAC, 50/60 Hz
Power consumption	max. 23W, Stand-by 7W



频道搜索 |



版本1 EPG |

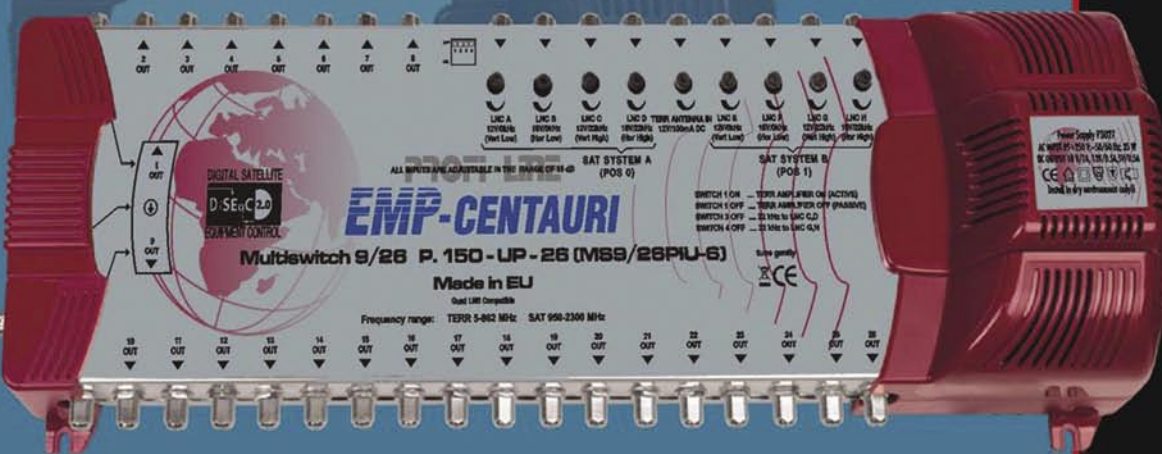
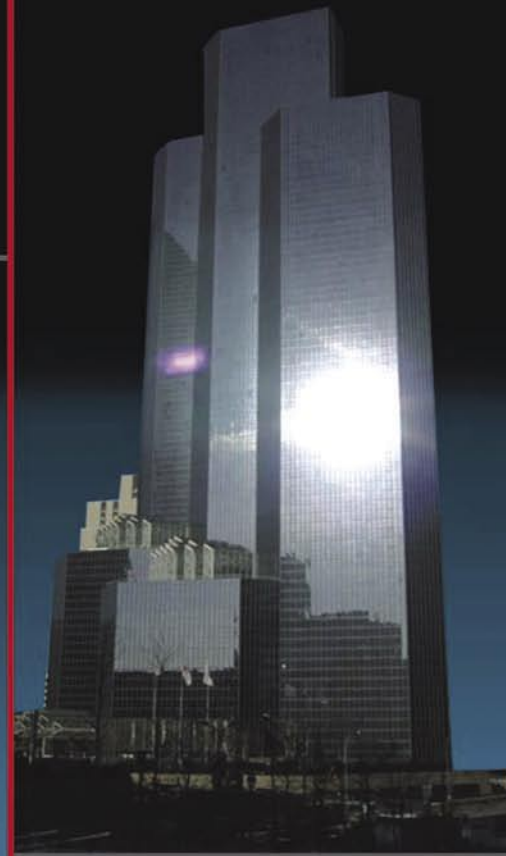


版本2 EPG |

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NANOXX

Nanoxx 9500HD

小机型 美画面

在前期《国际卫星电视》杂志刊登了 Nanoxx 9600IP 的测试报告之后,该接收机赢得了好评,我们又非常乐意地看到制造厂家为我们这一期提供了全面了解新款 Nanoxx 9500 HD 的机会。而这次惊奇甚至始于我们开始使用机器之前,因为当拆开 9600IP 包装的时候,大家都惊异于它那只有 37.5×6×23 cm 的娇小尺寸。所以那些客厅空间较小的读者会说将来也会有一个高清电视接收机出现在他们的家里。

然而,它却比普通尺寸的接收机具有更多的功能:在其后面板上,有常见的一进一出 IF 接口、两个欧插、包括 YUV、立体声和复合视频、S-视频在内的 6 个 RCA 插座、一个光纤数字音频输

让我们回到前面板,有在不用遥控器时操控接收机的七个按钮,还有极易读取的显示字母与数字的 VFD 窗口。

在右边的仓门里有两个 CI 插槽,适于所有的标准模



编排醒目的信息条 |

提供所有使用接收机必要的信息。

日常使用

首先映入 Nanoxx 9500 HD 使用者眼帘的是其安装向导,它和近来介绍的同类接收机类似。其特点是让第一次设定数字卫星接收机的人望而生畏。

第一步是询问 OSD 语言,语言选项为:德语、英语、法语、土耳其语、俄语、意大利语、葡萄牙语、西班牙语、丹麦语、荷兰语、波兰语、捷克语、瑞典语、挪威语、芬兰语、塞尔维亚语、希腊、匈牙利语、克罗地亚语、阿尔巴尼亚语和波斯语。这使 Nanoxx HD 接收机的语言种类较宽,我们非常赞赏制造厂家所做出的努力!

如果该机用于德语国家且

用户选则德语作为操作语言,那么有一个选项,即载入含有 19.2° E 的 ASTRA 和 13° E 的 HOTBIRD 卫星的最新预存频道目录。如果不用这个选项,接收机将会进到下一步的频道扫描。我们认为其他地方的使用者也会很喜欢这项功能,而 Nanoxx 应该注意到这种情况。



HDTV 的接收 |

出接口、一个 RS232 接口、一个 RJ 网络接口和 USB 2.0 接口,可以外接硬盘或 U 盘。

当我们在这里谈论高清电视的时候,制造厂家却在考虑 HDMI 1.2 插座,它能够提

块,还有一个读卡器插口,用于接收 Conax、X-Crypt、DGCrypt、Firecrypt 和 Crypton 加密节目。随机的遥控器放在手中的感觉很好,所有的按钮都进行智能化排布,所以可以轻易触到。

使用手册用德语和英语印刷。它的版面编排清晰,可以



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一旦进入天线设定阶段，你需要告诉该机现有设备能够接收到哪些卫星，还有接收机应该如何可在接收到卫星的位置间切换。

Nanoxx 9500 HD 预存

分钟。Nanoxx 9500 HD 的盲扫功能非常特别。使用这个选项可以以 3 或 4 MHz 为步长在全部频率范围进行扫描。可以预先定义四个符号率同时扫描，还可以用接收机根据符号率分别自

从理论上讲，任何 USB 2.0 的硬盘都可以连接到接收机上，只要它的格式是 FAT 32。否则，接收机将不承认它。不幸的是，接收机本身并不能给硬盘分区并按照 FAT 32 格式进行格



了 153 个欧洲和亚洲最新卫星位置的目录，可以单独进入其中的选项。举例来说，DiSEqC 1.0 和 1.1 协议支持多馈源天线，而 1.2 和 1.3(USALS) 支持极轴天线。

该机预先配置了一些类型的 LNB 设定方式，而你若将 S 波段天线连接到 9500 HD 时，你就会高兴地看到可以手动输入 LOF 频率。

所有的初始设定完成后，让我们开始进入下一步：扫描频道。可以用自动、手动和盲扫三种模式存储 10,000 个频道。Nanoxx 9500 HD 扫描的快速给我们留下了深刻的印象。我们在扫描一个做测试的有 90 个转发器的卫星时仅用了三

分钟。在我们的测试中，该机还做了一个非常特别的事，那是什么？又怎么做呢？即按照频率范围的要求选择时间。它能对一个卫星扫描 60 分钟，但是如果你想限定扫描，你可以削减一半时间只扫描一个极化。

如果你要按照个人偏爱来设置参数，那可以选择接收机的系统设定菜单。选项包括的设定范围为声音、EPG、电传文件和副标题，在媒体设定里可以调整视频的输出格式。在这个菜单中设定内置时钟并管理定时器是很容易的。

使用多媒体菜单，可以在 Nanoxx 9500 HD 上接驳使用移动硬盘，U 盘或用现有网络的功能在家工作。

式化。你可以将硬盘连接到个人计算机上，用“磁盘分区魔术师”一类的软件进行格式化，因为 MS Windows 操作系统软件不能对超过 32 GB 的硬盘按照 FAT 32 格式进行格式化（微软公司偏爱 NTFS 格式吗？主要是出于技术原因的考虑）。由于具有网络接口，接收机可以用计算机网线接入任何家庭网络。IP 地址可以用手动输入或者使用 DHCP 从路由器获得。

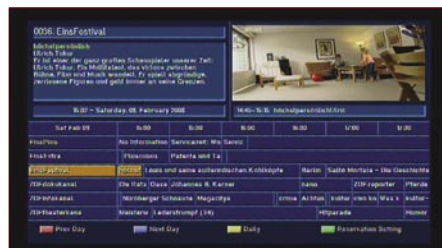
FTP 浏览器是其另外一个非常好的功能，即可以直接地从互联网上任何类型的服务器上下载并安装更新软件。下一个菜单是显示两个 CI 插槽状态信息的，我们成功地测试了 Irdeto、Cryptoworks、Alphacrypt



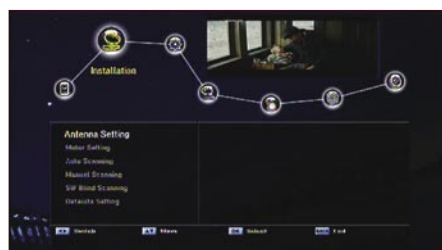
Nanoxx 9500 HD 的 SCPC 接收 |



频道目录具有不同分类的操作 |



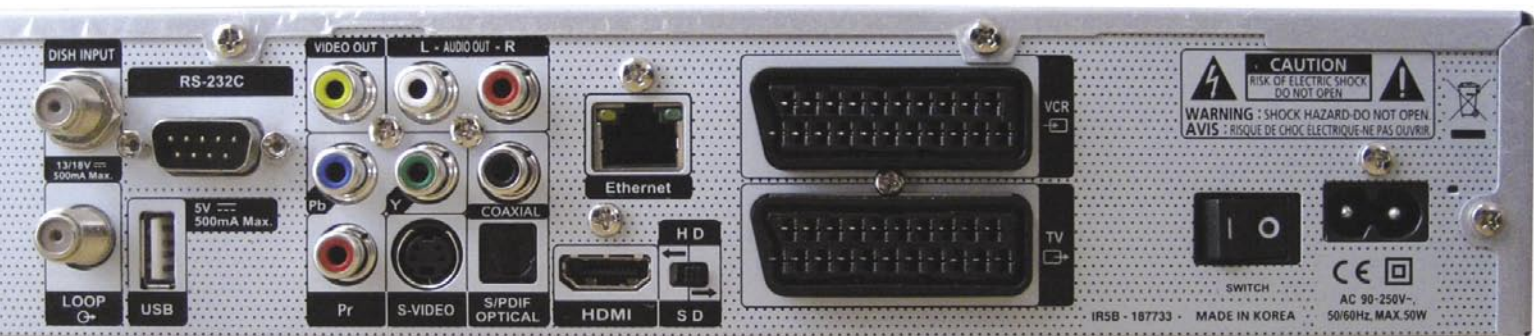
EPG (多频道显示) |



主菜单 |



盲扫 |



completing the picture



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和 Viaccess 模块。内建智能读卡器的信息也能在这里找到。

当所有参数设置完毕,就该离开主菜单,让接收机切换到目录中的首个频道。和图像一起出现的是一个位于屏幕底部清晰的信息条,它显示出详细的内容,包括当前和下一个节目有关的状态信息,如加密方式、高清电视、锁定状态、图文电视文件、副标题和声音选项等,而信号强度和显示则使其更趋完美。

再次按下遥控器的“信息”按钮,则显示关于当前节目的更多信息。如果你对此还不十分满意,再按一次该按钮,你就会惊喜地发现频道参数布满屏幕。

如果你认为多数接收机的 EPG 不尽人意,那么 Nanox 9500 HD 则不会令你失望。该 EPG 即可显示一个频道几天的信息,也可以一次显示六个频道。这些信息不仅简单易用,而且设计编排巧妙。用于录制节目的定时器可以直接在 EPG 中设置,所以,你还要求什么呢?

如果你想要换台,可以按下“OK”按钮,在屏幕上就会出现所有频道的目录。如果你正在寻找一个特别的频道,你不仅可以按照字母排列顺序进行寻找,也可以按照节目供应商、频率或信号类型(标清或高清电视)的分类来寻找。

Nanox 9500 HD 在你选择好频道后,目录仍然保留在屏幕上,只有再按下“OK”按钮才会令其消失。换台非常快,只需要大约 1.5 秒。在相同的转发器上传送频道之间的切换时间更少。顺便一提的是,SDTV 和高清电视频道之间的切换也一样。

如果你喜欢在广告期间换台,可以使用这款接收机的多画面功能,它有四个或六个小画面。

我们特别欣赏 Nanox 9500 HD 的其极佳的画质和出色的音质。可以用遥控器快速选择输出信号,它支持 576p, 720p 和 1080i 格式。

除了高清电视接收之外,其亮点还在于可以连接外部的 USB 硬盘。这使 9500 HD 具备了 PVR 的所有功能,这一点正是我们期待和欣赏的。让我们感到惊喜的是录制的开始丝毫不引人注目,不象一些 PVR 开始时会产生短暂的停顿。这款接收机只有一个调谐器,所以你每次只能进行一次录制。然而,当它在录制节目的时候,你仍然可以观看同一转发器上的其它频道。

重放接收机录制的内容(支持 XVID, AVI, JPG 和 MP3 文件)非常容易, Nanox 在这方面费了番脑筋。现在你只要用遥控器上按下“媒体”按钮即可重放。

它还包括各种不同的搜寻、向前和向后模式,还有一个独特的功能是通过遥控器上的按钮可以设定回放时间标记,既马上跳到某一时点。

没有测试调谐器的极限就不算完成测试,我们也测试了 Nanox 9500 HD 的极限。像在维也纳接收 7° W 的 NILESAT 卫星上水平线转发器或在慕尼黑接收 28.2° E 的 ASTRA2 D 卫星上非常弱的信号,即使 C/N 只有 4.5dB 也都很好地接收到并播放出图像。SCPC 接收也不成问题,我们测试的转发器符号率只有 2.5 Ms/s,也没有出现失真。

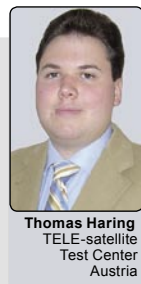
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多画面 |

专家的意见



Thomas Haring
TELE-satellite
Test Center
Austria

Nanox 9500 HD 是一款功能非常新颖的高清电视 PVR 接收机,其较小的尺寸适合摆放在任何架子上。操作格外容易,图像和声音质量俱佳。

由于具有网络和 USB 2.0 接口,使其使用范围更加广泛。

订制频道目录也应该是提供其他语言。

TECHNIC DATA

Manufacturer	Nanox
Website	www.nanox.info
Model	9500 HD
Function	Digital HDTV PVR Receiver
Channel Memory	10000
Satellites	153
Symbolrate DVB-S	2~45 Ms/s
Symbolrate DVB-S2	10~30 Ms/s
SCPC compatible	yes (2.5 Ms/s and above in our test)
USALS	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
Scart euroconnectors	2
Audio/Video outputs	3 x RCA + 3x RCA for YUV
YUV output	yes
UHF Modulator	no
0/12 Volt Output	no
Digital Audio Output	yes (optical, coax)
EPG	yes
C/Ku-Band compatible	yes
Power Supply	100~250 VAC, 50/60 Hz
Power Consumption	50W max. (Standby <3W)

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



Satellite Finding

Satellite	TELSTAR 18	12
LNB type	UNIVERSAL	
Low LOF	9210	
High LOF	10000	
Frequency	12000	
Symb.rate	15000	
Pol	Var	FWR dBuv
Search	OK	
CIN: 1 dB	4.88C: 16	FEC: 3/4
STRENGTH	77%	
QUALITY	68%	

**Find your Signal
in minutes!**

EDIT SATELLITES

0001	ASIATAT 3S	0640	Hor	27000
0002	SINOSAT 1	2647	Ver	4343
0003	Satellite		Ver	9932
0004	ASIATAT 3S		Hor	26000
0005	Angle	165.5°	Ver	27000
0006	Location	East	Hor	6000
		East	Hor	7000
		3729	Ver	4450
		3729	Hor	13000
		3733	Ver	6500

**Easily Edit your
Satellites settings!**

Angle Calculation

Satellite	ASIATAT 21916L
Your longitude	111.4°
Location	East
Your latitude	22.8°
Hemisphere	North
Angle Calculation	OK
Azimuth	-41.1
Elevation	42.8
Pol	-53.9

**Quickly Retrieve
Pointing Information!**

**Test your Picture
Quality Instantly!**

VPIQ:141	8.0
APID:142	
PPIQ:141	
CR: 1 dB	
4.88C: 16	
FEC: 3/4	

TV: MAC TV APSTAR 6 16:03 19 Sep 2007
TP: 12000VU15000



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Metabox HD Combo CI

首款 DVB-S、DVB-S2 和 DVB-T 接收机

在《国际卫星电视》杂志社，我们总是乐于见到厂家们介绍那些此前在市场上不曾出现过的产品。韩国制造商 Meta 多媒体公司的 Metabox HD Combo CI 就是这样的。正如在它的型号里的“Combo”（直译为带有某种功能）所包含的意义，该机具有两种不同的接收模式：DVB-S/DVB-S2 和 DVB-T。



这就是为什么其后板上在卫星信号的输入输出接口旁还有一个地面电视的天线接口的原因。它有两个欧插，还有六个可以接驳视频、音频和 YUV 信号的 RCA 插座，还有数字音频的光纤输出接口。而 HDMI 接口则可以使音视频信号的传输免于失真。它还贴着一个 E-SATA 的标签。在我们测试的这台机器上暂时还没有此功能，但是 Meta 多媒体公司正在追加这一功能，不久将会把 HD Combo CI 变成全能的 PVR。

软件的更新和新的频道目录可以采用最新的办法装载：在前面板上插入 U 盘来该内存装入必需的文件。说到前面板，它的重要功能是：易读的 VFD 显示屏，以

及没有遥控器时可以操控接收机的八个按键。

在前面板右边的仓门里隐藏着两个 CI 插槽和 USB 接口。当然，接收机遥控器手感很不错，按键也标注得很清晰，易于操作，感觉良好。

日常使用

第一次打开 Metabox HD Combo CI 时，它将会很快地要求你选择需要的 OSD 语言。可以选择英语、德语、法语、葡萄牙语、西班牙语、土耳其语、意大利语、和波斯语。一旦接收机知道该如何与你沟通后，它就很快地将你带到左边的主菜单里遨游，并一直到频道扫描运行完。在这一点上，我们不得不说：

我们得高度称赞 Meta 多媒体公司所设计的如此漂亮和非常易于使用的屏幕菜单界面。无论从观感和人体功率学的观点看，它都是最佳的，而且接收机还允许以自述的方式进行设定。

在安装子菜单时，我们首先必须选定两个调谐器中的一个进行设置。选择 DVB-S/DVB-S2 的话就会有一连串预先储存 57 个卫星的目录，Metabox 接收再多的卫星也没有问题，这是因为其 DiSEqC 1.0 的功能可以结驳 4 个固定的 LNB，而 DiSEqC 1.2 和 1.2(USALS) 的功能则可以接驳极轴天线。但是唯一找不到的是 DiSEqC 1.1，这意味着大型多馈源天线的玩家们暂时被遗忘了。

对于一些少数类型的 LNB，该机预先编制有相应的程序进行设置，这意味着几乎任何的天馈接收系统都将能与该机匹配工作。万一你需要某些外国的中频设定，你可以手动输入这些数值。

初学者将会对这款接收机的自动侦测 DiSEqC 版本功能特性留下深刻的印象。通过它，你必须作的全部工作就是在目录上标注必需的卫星位置，并且让该机以预先储存的转发器目录为基础搜寻的适当的 DiSEqC 版本。

卫星和转发器的数据可以随时在一份子菜单里进行轻松的编辑。另一方面，对于许多其他制造厂商来说，Meta 多媒体公司提供了智能



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EPG(单频道) |

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For the Professionals



化的设计解决方案,甚至可以借助其界面让你进入更多的细节。

Metabox 引以为荣的是可以记忆 10,000 个频道,可以装满自动扫描或手动输入的信号数据。安装有 DiSEqC 功能的极轴天线的玩家在实际扫描开始之前可以标记多达十个卫星的位置。如果你有一个极轴天线,这将是一个能节省许多时间的功能。

在一个有 90 个转发器的卫星上,我们的扫描刚刚超过六分钟,这虽然没有打破任何奥运会记录,但是也堪与多数接收机竞争比较。

对于搜索数字地面电视频道则需要更少的耐性和专长。只需简单地选择是否想要运行一个自动或者人工的扫描即可。自动扫描将会检查开始扫描之前就被定义了的 UHF 频率。如果所连接的地面天线有一个内建信号放大器,该接收机能直接向信号电缆提供 5 伏的供电。

为了使初始扫描的结果排列有序, Metabox HD Combo CI 提供各种类型的分类和编辑功能,像是按照字母、卫星、转

发器、加密方式、童锁或 SID 等分类来排列频道。

为了确保所有你经常观看的频道能在按下按键后马上出现,你应该将它们移到由使用者自由定义的五个喜爱频道目录之一里面。

使用者的参数选择在第二个主菜单条目里进行处理。在这里,你可以让该机根据 DVB-S 或 DVB-T 的数据流设定正确的时间,而你可以每天在定时器上重复设定八个定时事件。

Metabox 的 HDMI 接口能提供 PAL 制的 576p、720p 和 1080i 的视频信号,而欧插则能提供 RGB、CVBS 或 S-视频信号。

当所有的初始设定完成后,频道目录里就填满了数字卫星和地面电视及和电台,你就可以离开主菜单,而接收机则显示出目录上的第一个频道。

每当一个新的频道出现时,在屏幕的底部就会出现一个编排清楚的信息条。它呈现出关于当前节目的图文电视文件、副题、加密方式、杜比

数字音频、童锁或高清电视内容等方面的信息。

如果你按下信息按钮一秒后,就可以得到关于当前节目的更多 EPG 信息,前提是频道供应商提供相关内容。

此时, Metabox 显示出了其 EPG 设计的聪颖和功能的强大。你可以了解单一频道的详细信息,或一次浏览五个频道的概述。如果你按下“OK”按钮,频道目录就会显示出来,但是在这里 Meta 多媒体更是已经超越了传统,而当你按下遥控器上绿色的按钮时,会出现一个虚拟的软键盘。只要简单地键入你正在找寻频道的名字,该机将会显示出这个特别的频道,前提是它存在于频

道目录中。当然,你也可以依照各种不同的参数暂时进行分类而轻易地找出你需要的频道。

当 HD Combo CI 从一个频道转到换下一个频道用时稍微超过了 1 秒,这让我们感觉不错。对于高清频道的切换,它可能花上多一点的时间。

Metabox HD Combo CI 的各种性能出众,这已经在前面提到过。但是这款接收机还具备更好的有点,者使得它更是超凡脱俗: 它可以支持 Nvod (近视频点播)、字幕语言选择和同时显示多达 16 个频道的多画面模式。

Meta 多媒体公司在其接收机内配有一款低门限的调谐器,可以锁定和收看 C/N 低于 5 分贝的 SCPC 信号。且其 DVB-S 兼容的符号率范围为 1~45 Ms/s,但是我们的测试无法完全确定这点。而且每个符号率为 1.6Ms/s 或稍高的 SCPC 信号都能收看,这本来就超出你的卫星接收机的平均水平。

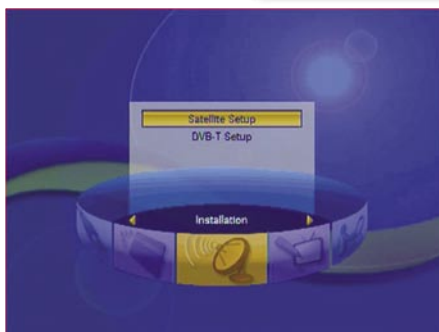
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SCPS (用 Metabox HD Combo CI 接收) |



主菜单 |



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COBHAM Antennas

制造厂商在不断地努力改善它的产品,因而可以定期获得软件更新。如果你的天线指

向19.2° E 的 ASTRA 卫星,可以在空中进行更新,当然也可以通过 U 盘来进行。

专家的意见

+

Metabox HD Combo CI 是一款专为家庭设计的接收机,它具有超群的使用便捷性和多种多样的功能。它最终为任何起居室的多媒体架柜上带来了典雅的感觉。

通过整合了 DVB-S、DVB-S2 和 DVB-T 的功能,制造厂家尝试着走出被动局面,而依我们之见,他们是成功地进行了智慧的创新,特别是看到这样的事实:绝大多数本地的地面电视频道都可以接收得到。用该接收器既可以接收所有地面电视频道,也可以接收高清卫星电视频道。

-

没有



Thomas Haring
TELE-satellite
Test Center
Austria

TECHNIC DATA

Manufacturer	Metamultimedia Co. Ltd., South Korea
Fax	+82 2 6300 4112
E-Mail	master@metamultimedia.net
Model	Metabox HD Combo CI
Funktion	HDTV receiver for DVB-S, DVB-S2 and DVB-T
Channel memory	10000
Symbolrate DVB-S	1~45 Ms/s
SCPC compatible	yes (> 1.6 Ms/s)
USALS	yes
DiSEqC	1.0 / 1.2 / 1.3
Scart euroconnectors	2
Audio/Video outputs	3 x RCA + 3x RCA YUV
UHF Modulator	no
S-Video	yes
Component video output	yes
HDMI	yes
0/12 Volt connection	no
Digital Audio output	yes
EPG	yes
C/Ku Band compatible	yes



Opensat X9000HDCI

频道冲浪者之梦

这款在前面板中央有一条非常有特色红线条的黑盒子给人的第一印象就是很神秘。然而，如果你将其放在你的多媒体电器架上其他黑色家电之中时，你就会承认红色使整体活泼起来。六个红色的扁平按钮很好地融入到线条之中。你不仅可以利用它们调整频道和音量，而且还可以在 OSD 菜单上进行一些设定（除了输入数字以外）。

前面板的上半部分是利用浅色透明的塑料做成的，而里面装有显示数字的真空荧光显示装置。当 X9000 HDCI 在待机状态时，它表示频道编号、名称、日期和时间。它从稍远的距离也可以轻易读取。前面板的整个下部分实际上是一个仓门，在其下面你能看到两个 CI 接口和一个读卡槽。稍后再做更多的介绍。

后面板具有每个单调谐器高清接收机都具备的东西：所有必备的数字和模拟音视频输出。但是没有 S 视频端口，但这个信号可以通过欧插获得。还有一个 DB-9 接口。在这里你不会找到 UHF 接口，因为时下谁还需要它呢？好在制造厂家增加了电源开关，毕竟机器离不开电源线。

珍珠白色的遥控器看起来

长，也不太短，恰如其分。里面满是照片和插图。然而，如果你对卫星设备有些许经验，你或许就不再需要它。接收机的 OSD 非常具有逻辑性，容易操作。

安装

在开机之后，你会见到初次安装助手。这是一个简单的安装版本，和其它机器没有什么差别。你可以通过一个红色按钮向后翻页，而即使你按“OK”键太快的话，还可以退回来。通常，第一个阶段将是选择语言。这项选择真的令人印象深刻：英语、德语、法语、俄语、西班牙语、意大利语、阿拉伯语、挪威语、瑞典语、芬兰语、荷兰语、丹麦语、捷克语、斯洛伐克语、希

腊语、土耳其语、匈牙利语和波兰语都有。如果你认为下一个阶段将是选择你想要看的卫星，那你完全猜对了。你准备好了吗？你共有全世界 159 个卫星可供选择，X9000 HDCI 真的是一个全球化产品！

当你选择了 Hotbird、Astra 或其它卫星后，下一个选择窗

口就显示出来。这次是有关你碟形天线上安装的 LNB 本振频率。你可以选择如下频率：5150、9750/10600、9750/10750、9750、10000、10750、11300 和 11475 MHz，或者选择使用者特别的频率。还可以选择手动输入非标的 LOF 数值。X9000 HDCI 兼容 Ku/C 波段信号和其它波段的信号。

如果你碟形天线上的 LNB 不是直接连接到接收机，而是经过一个 DiSEqC 1.0 开关，那你就得进一步安装 X9000 HDCI。而此时，你还没有被问及有关电动机的事宜。极轴天线的使用者要退出安装助手程序，而通过 OSD 来配置他们的电动机。DiSEqC 1.2 和 USALS 两者机器都支持。

这样，我们就到了最后一个安装阶段“开始扫描”。当扫描开始时，接收机将会扫描你已经选择的卫星，并将搜索所有的频道（电视+广播，FTA+加密）。如果你不是新手的话，我们建议你按“EXIT”按钮退出这个频道搜索程序。否则结果就是你会搜到一大堆你看不到的加密频道，而且你还得再一一删除它们。如果你的天线是极轴的，那现在怎么做呢？我们要通过 OSD 来做进一步设定。我们有更多选择性来操作做，就是有较多的操作选择项。

在按下“MENU”按钮之后，第一个子菜单就出现了，这是安装菜单。使用左右箭头，我



们可以转到其它菜单：操作、频道、高级、频道及状态。然而，我们的安装还没有完成。因此，让我们留在安装菜单。第一个菜单条目是天线，即我们如何配置天馈系统。这时，就可以设定电动机了。X9000



并不符合人体工学，但是按按钮的感觉还不错，你很快就会喜欢上它。这点对于一个骨灰级的频道发烧友来说是头等重要的。

和接收机和遥控器在一起的还有连接线缆（HDMI、YPbPr 和 A/V）及使用手册。我们得到的是英文版本的，它不太

HDCI 的另一个良好功能是可以选择 LNB 供电的水平。不仅可以选择 13/18 V，你还可以选择 14/19 V。当使用较长同轴电缆的时候，这可能有助于保证向 LNB 供电。

在这个界面里，你可以进行自动扫描。也是在这里，你有了较多的选项，超过了简单

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的安装菜单。你可以这样选择频道扫描：电视+广播、仅扫描电视、仅扫描广播、免费+加密、仅扫描免费或加密节目。如果你订购了付费节目，而且你知道节目供应商在使用什么加密系统，我们建议你选择扫描免费+加密的方式并按下红色按钮。对于你感兴趣的加密节目，程序会标记一种记号。举例来说，如果你只订购了 Viaccess 加密方式的频道，那除了 Viaccess 之外，其他所有的加密系统 (Mediaguard、Irdeto 等等) 都不作记号。这样，你的 X9000 HDCI 将会除了免费和 Viaccess 加密频道之外不再理睬任何事物。

接收机的扫描速度很可取。它扫描 Hotbird 卫星 (免费+加密) 需要 7 分钟，而一起扫描 Hotbird 和 Astra 卫星 (只扫描免费节目) 仅用 12 分钟。不管是 QPSK 还是 8PSK 信号，所有的 DVB-S 和 DVB-S2 的转发器都能被找到并接收。当然，接收机支持接收 MPEG-2 和 MPEG-4 (H.264/AVC) 数据流功能。接收 1Ms/秒 的 SCPC 频道也不成问题。我们成功地用 1.110个Ms/秒的信号测试了接收机。我们还试着用X9000 HDCI 接收场强区域边缘的弱信号，结果也很好 (用我们的 85 cm 天线测试)。然而一些卫星转发器数据的准确性和完整性需要改进，我们非常希望能够在这篇报告后面描述的那样及时更新。

在自动扫描的选择项中没有网络扫描内容，但是可以通过手动扫描进行。因此，如果你知道在已给卫星

转发器的 NIT 目录里有最新的转发器数据，你就可能扫描到它。这就导致接收机存储器里新转发器的增加。存储器不是很大：只能存储 4000 个频道和 500 个转发器。如果你使用极轴电动机，就会扫描到所有免费和你选择的能够解密的频道。手动转发器扫描支持十进位和十六进位格式的 PID 码输入，你可以输入视频、音频和 PCR 的 PID 码。那是影像传送节目爱好者的最爱。

安装菜单的最后项目是转发器的编辑功能。因此如果以后有什么变化，我们就可以刷新接收机。说到刷新，我们可以分别更新固件和频道目录。为此，我们只需从制造厂家的网站下载一个计算机程序 (<http://www.opensat.info/>)。使用“更新和频道编辑程序”，不但可以方便地编辑频道目录，而且还可以 sdx 格式将 SatcoDX 频道目录载入你的接收机 (参见 www.satcodx.com)。这样，我们就可以保证转发器数据保持最新。

日常使用

当然，在安装之后，你就会想要转换频道来跳过广告节目，以此判断接收机变更频道有多快。记住，X9000 HDCI 是一个真正的冠军。它用不到 1 秒的时间在免费节目间切换，用稍稍超过 1 秒的时间在加密频道间切换。而且我们所指的是标清和高清节目！在转换期间没有失真：无论是视频还是声音。对于那些惯于快速换

台的人来说这是一款速度较快的接收机！

通常，在频道变换之后信息条就会出现。信息条制作得较大，它包含了许多数据：频道和程序信息、转发器数据、日期和时间、信号强度指示器和许多描述频道和节目的信息。由于有清晰的设计和选择良好的色彩，即使在稍远的地方它也很容易读取。按两次“INFO”信息按钮就会显示当前节目的更多信息。我们能也显示出下一个节目的信息。

为了看到更多的节目信息，就要使用“EPG”按钮。电子程序指南以表格的形式显示出来：X 轴是一个时段，而左边纵向的栏里含有频道的名字。在这里显示节目的名称。通过箭头键，你可以向四面八方移动。每件事物都按照逻辑放置，而且非常易读。虽然我们无法一一测试每种个语言和每个频道，但是国家的字体显示正确。数据真的出现很快，只需一两秒的时间。如你所愿，你能为每一个有趣的节目做上标注。

作为接收机，另一个重要功能就是它编组频道的能力。在按“OK”按钮之后，频道目录就呈现出来。除了按照卫星或者频道名称分类，我们还可以方便地从这个窗口直接编排频道。有趣的是我们能把挑选的频道加入到多个喜爱频道的目录里。X9000 HDCI 的一个窗口显示着 8 个喜爱频道目录的名称 (从喜爱频道 1 到喜爱频道 8)，而我们所要作的就是核对我们想要的频道名称是否在里面。频道的编排总是要花费许多时



天线设置 |



频道目录 |



视频格式设置 |



EPG |



扩展的节目信息 |



信息条 |



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间,有时甚至要把你逼疯。但是如果你将这款接收机和其它机型进行比较,你就会说用X9000 HDCI 整理频道更加有趣。这是真实的,不只是使用界面设计良好。而且当你按下RCU 按钮的时候,你会有一种非常愉悦的感觉。这被很多人确认。而在频道编排过程中,

确的年龄限制数值才有效。所以,当一个节目观众的年龄限制为 15 岁以上,而你设定的年龄成熟度限制为 7 岁以上时(在你家中最幼小小孩的年龄),将限制收看,直到输入正确的 PIN 码。然而,如果你怀疑卫星节目供应商都超过你的容忍标准,你还可以限制所



你会多次按按钮的。

当频道被搞定后,现在就是该检查视频和音频品质的时候了。我们很高兴地确认每件事物都很完美。高清视频是通过 HDMI 接口以数字形状输出(解析度为: 576p , 720p 或 1080i),还可以通过 YPbPr RCA 输出模拟信号。你通常用欧插(CVBS、RGB 或 S-视频)和 RCA 插座(CVBS)就能获得标清的图像。你可以同时具有高清数字信号和标清模拟信号。信号的品质非常好,即使我们通过 HDMI 向液晶或等离子电视机传输 1080i 的标准节目,其画质也是格外地好。当频道快速切换时,我们没有发现任何失真。

通过 RCA 插座,可以获得标准的立体声,也可以通过光纤数字传输接口 S/PDIF 得到。因此,当你使用 X9000 HDCI 和家庭影院系统收看你喜爱的频道,且以 AC3(杜比数字)格式传送声音时,你将会体会到用这种技术表现出来的现场感。它也支持 PCM 格式的数字音品。

至于其他功能,X9000 HDCI 具有童锁控制功能,可避免年幼轻的观众接触不适当的节目,年龄成熟度可设定为: 7、12、15和18 岁。当然你必须得知道,只有当节目供应商把他们的全部节目都标注上正

有的频道。

我们还想要提到另外一个小功能-屏幕保护程序。你可以设定它为 5 分钟至 120 分钟。如果在此期间没有发现操作动作,举例来说,当听卫星广播的时候,屏幕保护程序就将会启动。

因为 CA 之间或节目供应商之间有太多的不同,所以我们通常不想涉及太多的CA 功能。然而这次我们想要用X9000 HDCI 的一个非常美好的功能来引起你的注意。实际上除了接受 CAM 的两个 CI 槽以外,它还有通用读卡机。“通用” 即意味着它能兼容 Mediaguard (Seca)、Conax、Cryptoworks、Viaccess 或 Irdeto 智能卡。我们检查了,当 CAM 插入 CI 槽内时再插入 Mediaguard 2 智能卡,一样运行良好。这真是太好了,因为以后读卡机通常与只有一个植入的 CA 系统配套。

比较高级的卫星玩家被告知在互联网上可以轻易得到 X9000 HDCI 的其它种软件,这让我们可能接收到以其他方式收不到的频道。

最后,对于找寻带有 PVR 功能型号的人而言:不久,Opensat 将会推出X9500 HDTV 型号,它含有 PVR 和 USB 功能。

专家的意见



不管是对于普通观众,还是对于频道冲浪者来说,非常快速的接收机都是令人高兴的。对于喜欢玩升级的、玩频道目录的或者是玩其他功能的人来说,这都是一款有趣的产品。它具有非常好的调谐器和高质量的视频和音频。尤其独特的特征是: 通用的复合 CA 读卡器和 2 个 CI 插槽,使用户能够用一个接收机收看 3 种不同形式的付费电视

不支持DiSEqC 1.1协议,频道记忆较少,不懂计算机的人可能会在更新时出问题。

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DATA	
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Distributor	RESYS, S.G. Recica 1219, 912 20 Tetovo, Macedonia
Email	info@abcbiznis.sk, info@resys-sat.com
Model	X9000HDCI
Function	Digital DVB-S/S2 MPEG2/4 HD Receiver with single tuner
Channel memory	4000
SCPC compatible	Yes (from 1Ms/sec)
DiSEqC	1.0, 1.2 and USALS
Audio/Video Output	3xRCA + 3xRCA YPbPr
UHF Modulator	no
S-Video	no (only via SCART)
Component output	yes
HDMI output	yes
Programmable 0/12V	no
Digital Audio Output	yes (optical)
LAN	no
USB	no
EPG	yes
C/Ku Band compatible	yes
PAL/NTSC	yes (automatically)
Power Supply	90~260 VAC, 27W max.

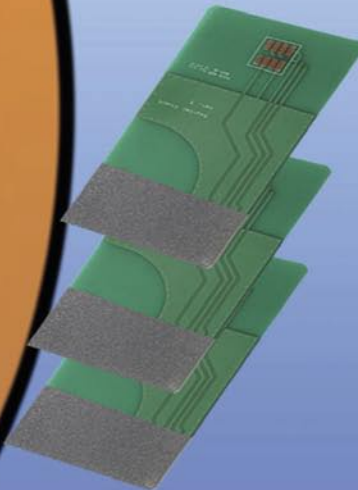
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EZ-2200



MP880



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- IR Remote Control
- 3 Digit LED Display
- Software Limit Protection

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汤姆斯·哈瑞

高清电视并不是屏幕上唯一的主角,它在其他方面也很活跃,如 IPTV。我们谈论的不仅仅是已经商业化的 IPTV,而是像在我们《国际卫星电视》2007 年第 9 期里重点介绍的

像 Slingbox 那样的机顶盒,还有我们在这里向你介绍的索尼 LFPK-1,它正从使用者寥寥无几的状态变成对于普通使用者逐渐流行起来。

这些机顶盒通过连接互联网来接收媒体,因而也使你听与看的位置与你设立天线的位置无关。

在索尼 LFPK-1 的前面板上是五种状态的 LED 显示装置,它显示当前的操作模式和连接使用中的网络类型,靠近底部的是机顶盒的开关按钮。

后面板上有六个 RCA 插口(2 个复合视频和 2 个音频)、一个 S 端子插口、一个 VHF/UHF 高频头插口、一个网络接口、一个 IR 外接插口和一个 12 伏电源插口。

机顶盒也可以使用 WLAN 无线连接,即使它并没有提供外置天线附件。还有一张含有必需软件在内的只读光盘和一册简短介绍重要安装步骤的使用手册。正如对索尼产品的美好预期,机顶盒制作精良,而且功能完备。

日常使用

在设定完机顶盒并将其与卫星接收机连接后,我们很快就分配到一个本地网络的 IP 地址,然后开始安装“本地电视免费播放器”,索尼特别为这款机顶盒设计了播放软件。在真正安装开始以前,一个错误使每件事都停了下来:



本地电视免费播放器 ▲

播放软件与微软新的 Vista 视窗操作系统不兼容。

这对于我们来说不是问题,因为在我们的测试实验室中有许多个人计算机安装的是微软 XP 视窗操作系统,只是一般使用者此时会有所不便。

现在,索尼发布了更新的“本地电视免费播放器”软件,以便能与微软新的 Vista 视窗操作系统兼容工作。不幸的是,这个更新只有是安装使用过老版本的播放器才行。根据索尼公司网站上的问答,他们建议你确认在将机器升级到 Vista 视窗操作系统以前,“本地电视免费播放器”已经在你的个人计算机上安装完毕,因为不能在以后安装更新。

如果你已经在你的个人计算机上安装了 Vista 视窗操作系统,索尼公司的网站则什么也没有说。是不是对客户不太友好呀?后来,在我们将“本地电视免费播放器”驱动到我们的个人计算机之后,又一个令人惊讶的事情出现了:软件宣布它不能够与这个机顶盒连接。起初,我们猜想这个错误在于播放器的配置或是我们实验室的路由器,但是很快就弄清楚了,原因在于这是一个我们正在使用的“本土电视免费播放器”英语版本的问题。

因此,我们改为安装光盘上





Difference from your competitors



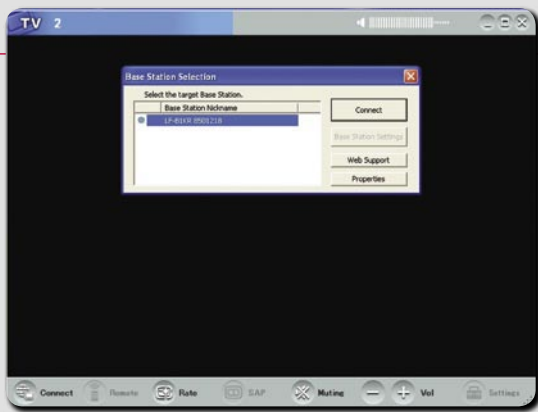
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虚拟的遥控器 ▲

的韩语版本,你想象不到,软件立刻与机顶盒连接上,在非常短的时间里来自卫星接收机的图像就立刻出现在我们的监视器上。

这才像是索尼,一家在国际电影和电视方面举足轻重的公司,它特别强调了其机顶盒国家特性的使用。据称,他们也想要回避,举例来说,在欧洲的观众想接收美国或亚洲的频道,反之亦然。同样对于付费电视节目,它似乎也有电影和电视的版权问题。

即使在我们苛刻的测试条件下,一眼看上去图像质量也是非常的好。我们使用 6 Mbit 的 DSL 连接测试时,机顶盒提供的图象质量很出色。而当使用稍慢的 1.5 Mbit 的时候,仍然可以获得充足的带宽。

当然,若网速再慢时会有所不同,但是只要是用 DSL 装置上网,应该不成问题。

在下一步里,我们想要完全控制它。为此,索尼机顶盒随机带有一个叫做红外线感应头的东西来控制其附件。感应头上红外线二极管靠近机顶盒附近的红外线接收头,借助于“本土电视免费播放器”上虚拟的遥控器,所有必需的控制指令通过互联网传送,然后通过红外线感应头再传送给接收机。

我们很快找到一款适合的接收机来做这个测试,只在很

短的时间里,我们就能够不用遥控器而完全地控制 PVR 机顶盒,如观看它录下的节目。我们高兴地看到:软件的反应足够快,各种不同的指令遥控操作该机顶盒几乎没有任何延迟。

其它的特点是 LFPT-1 整合了 WLAN 连接功能。它可以轻松地将图像从你的 PVR 机顶盒中发送到后院中的一台笔记本电脑上。当天气晴好时你可以在户外观看喜爱的电视系列剧,而无需任何电缆,也不需任何费用。

在我们的测试中,内建的 WLAN 天线工作得很好,当然外接天线会在更大的空间范围内良好地进行工作。如果你要有一个便携式的索尼游戏机,那这个想法就会非常有趣。

于是,你可以在房子里的任何一处用游戏机监视器享受美妙的无线影像和声音。令人惊讶的是,接收的范围相当广,在我们测试实验室的外面接收也没有任何问题

总体考量后,我们可以说,一方面索尼 LFPT-1对于任何在路上想要通过接收机观看喜爱节目的人来说是最理想的机顶盒。另一方面,它也是那些想要通过移动装置,如笔记本电脑或 PSP 便携式游戏机来观看其喜欢节目人们的理想工具。只要带宽足够,在酒店用互联网连接传送电视图像也没有大问题。

该机顶盒并不是对于每一个人都完全适合,举例来说,通过一位美国朋友向欧洲或亚洲传送美国当地节目就不行。只有使用相应国家特点版本



的“本地电视免费播放器”才行。在这种情况下,我们强烈推荐使用 Slingbox 机顶盒来替代此系统。

红外线感应头 ▲

结论

索尼 LFPT-1 是一款使用简便易于安装的机顶盒,它可以在世界上任何地方给你提供观看家乡电视频道的接入通道。

机顶盒的整体质量非常好,包括内装的软件 - “本地电视免费播放器”那孩子也能玩的功能很适用,操作简单。

目前,索尼还没有真正支持微软新的 Vista 视窗操作系统,尽管该系统已经发布近一年了。

制造厂商试图限制机顶盒在某些地区的使用,而且“本地电视免费播放器”必须使用相同的语言。

总之,索尼 LFPT-1 给我们留下两个印象:突出的技术及实际上人为的使用限制。

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AWARD Winning Satellite Receivers

TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

TOPFIELD TF7720HSIR
Ideal HDTV Receiver for FTA and Irdeto encrypted channels

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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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


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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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

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



4 SAT-IF signals Compact multiswitch with active terrestrial



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TELE SATELLITE AWARD & BROADBAND
10-11 / 2007
TECHNOTREND S2-3650CI
HDTV Reception with Many Features for Little Money



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

TELE SATELLITE AWARD & BROADBAND
10-11 / 2007
JIUZHOU DVS-2018BS
Very Stable, Solid Receiver for Professional Use



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

TELE SATELLITE AWARD & BROADBAND
10-11 / 2007
TECHNISAT DIGITSIM S2
Exceptional Mini-receiver with Very High Signal Sensitivity and Ease-of-Use



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

TELE SATELLITE AWARD & BROADBAND
10-11 / 2007
TECHNOTREND TT-MICRO S320
Top video quality thanks to HDMI — at an affordable price



Manufacturer	DVB-Shop
Website	www.dvbshop.net
Function	Digital satellite receiver with HDMI
DVB-S2/LAN	• / —
Channel Memory	!
DiSEqC	1.0
S-Video/HDMI	— / •
Scart/Digital Audio	• / •

TELE SATELLITE AWARD & BROADBAND
08-09 / 2007
JIUZHOU DTS1601
Well designed, solid receiver with a mature firmware and blindscan



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

GT-SAT 公司

从 2007 年 8 月起,这里就是 GT-SAT 公司的总部。公司成立于 2004 年。办公室位于大楼的右半部,仓库位于左半部。除了合伙人古尔和汤姆,还有一个成本管理和一个物流管理专家。

天线设备是必需的,因为在发货之前,必须在所有能接收得到的卫星上对 LNB 做深入的测试。GT-SAT 公司还在比利时、荷兰和德国租赁了另外三间仓库,它们被分为两个储存区,分别存储面向约 2,000 平方公里范围内欧洲国家的已付款货物和非欧洲国家的未付款货物。“这些仓库每天 24 小时工作,”汤姆解释说,“这使我们能在任何时间调配产品。”



TELE-satellite World

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很少有一家公司像 GT-SAT 公司那样组织得非常巧妙。每个部分的工作对于下一个环节来说都容易接受,就像一个七巧板。当它运转起来时,必须要做出许多辛苦努力来实现平滑过渡。我们直接访问了卢森堡这个位于欧洲中心的小公国去了解他们如何白手起家又如何成就了这番事业。

卢森堡只有 50 万人口。“每天有超过 10 万人从法国、荷兰和德国来到这里工作,”古尔·麦东尼介绍了他所在国家的一个经济现象。他和汤姆·舒尔茨同样都是 GT-SAT 公司的合伙人,依照汤姆的说法“即使我们没有和杰克(我们的另一个合伙人)合作,我们也是合伙人”。

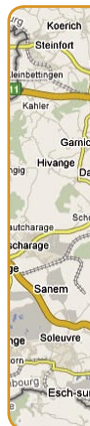
杰克是台湾的 LNB 制造厂商 Litec 的老板,他在中国的深圳开厂。

顺便说一下,许多事情都出自偶然。汤姆·舒尔茨起家时在德国北部的奥登堡,1996 年时他在一家较大的卫星附件生产厂担任出口主管。2001 年,他决定辞掉这份工作,转到卢森堡一个较

大的卫星器材商那里工作,在那里他遇到了来自以色列的古尔·麦东尼,古尔从 2000 年起就在这行工作。汤姆和古尔相处得非常融洽,主要因为他们对待工作都非常认真,这主要归结为对客户非常认真。

基于相同的理念,他们决定将他们的理想付诸实践。2004 年,在来自台湾 Litec 公司曹先生的支持下,成立 GT-SAT 公司的事就基本定下来了,曹先生那时刚在深圳建立一个 LNB 生产厂。

“合作建立在信任的基础上,所有的支持和共同的收益来自于共同努力工





◀ 这就是 GT 公司:右边是古尔·麦东尼,左边是汤姆·舒尔茨。汤姆的母语是德语,而古尔则讲希伯来语,在 GT-SAT 通用语言是英语。汤姆起得很早,而古尔则是一只夜猫子,这样,当客户需要他们的时候至少有一人在。古尔负责财务和技术,而汤姆则负责销售和物流管理。

们就是这样过来的。今天, GT-SAT 公司租赁了一间宽敞的厂房,带有平面布置的办公室和许多仓库。“现在我们甚至还有房间供给更多的员工,”汤姆解释说。“现在我们正

在招聘销售、会计、物流管理和工程方面的人员。”

作,”这不但他们自己的信条,而且是他们对于用户的态度。
“这是一个现实的梦:我们做自己的老板,作自己的决断-最重要的是-实现我们与客户的梦想,”汤姆说。

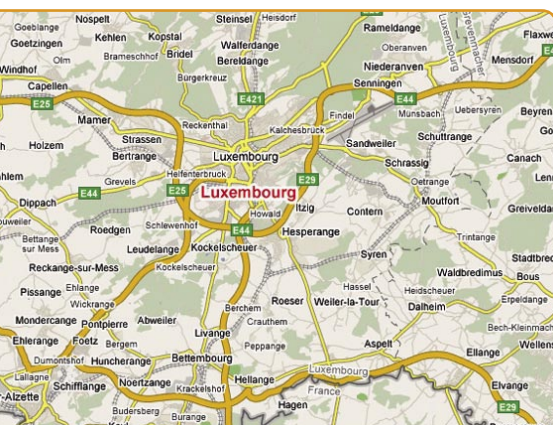
看来需要许多新的骨干员工。古尔做了进一步介绍:“现在,我们快速增长的业务需要再招员工,以保持这个增长。”
虽然杰克是一个慷慨的合伙人,但是做销售就意味着要有财务风险。“我们开始在我的公寓中表演‘双人秀’,汤姆在房间里机械地走动。“而我则是从沙发床上起来走到有个人计算机的起居室。唯一的危险就是散布各处的网线。”

那么他们的业务发展得有多快呢?古尔取出他的笔记本电脑,给我们看了这个事实。“2005 年,是我们业务开展的第一年,我们的销售额达到 210 万欧元。2006 年,增加到了 580 万,而 2007 年则达到了 730 万。“2008 年的目标定为 1,000 万,这大致就是古尔和汤姆的业绩,他们一心要成为市场的领军力量。

仓库事实上就是车库,而且如果车库变拥挤了,他们就只能把他们的生意扩展到公众车道上-除非天正在下雨,他

GT SAT 公司的大多数客户是节目供应

◀ GT SAT 公司的设备室:在这里进行随机检查和新品开发测试。台湾厂商的技术人员在用真正的卫星信号测试新的 LNB 性能。
古尔用 HP 频谱分析仪显示出钻石 LNB 的信号曲线(在照片中可以看见),再与合格的 LNB 进行比较。





▲ GT-SAT 公司的每个 LNB 有自己序列编号, 所以每个产品都能被追回。甚至在仓库里就可以追回每个 LNB, 因为所有 LNB 的序号也被附在包装箱子上。

商, 这也就说明了为什么大部分是批发业务。事实上, GT-SAT 公司间接地向斯堪的那维亚半岛和波罗的海国家、俄国和东欧的节目供应商提供 LNB。

汤姆详细地介绍了 LNB 的类型: “2004 年, 我们开始做时只有四种基本类型: 单、双、四输出和四合一。”后来他们又增加了圆极化类型和迷你系列, 2007 年增加了高品质的钻石系列 LNB, 它们不仅具有较强的接收性能, 而且尤其防晒防雨。 “钻石系列在热带国家取得了极大的成功,” 汤姆骄傲地介绍说。这些高技术含量的 LNB 最近也逐渐在欧洲受到

◀ 仓库一览。GT-SAT 公司非凡的成功还在于随时按大订单配送货物的能力, 这是获得批发商客户的先决条件。多达 30 万个 LNB 储存在 GT-SAT 公司在比利时和卢森堡的仓库, 这也是笔巨额的资金。

货物出口经由比利时的安特卫普港, 一个 40 英尺的集装箱约装有 60,000 个 LNB。“我们的生意由一家叫做 Coface 的公司保险,” 古尔说。“这样我们的信用得以保全。”

欢迎。汤姆和古尔极为重视他们的客户, 也将其视为合伙人。“我们追求的是一个长期的商务关系而非短期的成功,” 汤姆解释说, 古尔回忆起在他们业务开始时的一件事。“我们第一批交货的 LNB 中有一个开关不能正常工作。”实际生活经常会发生这类事, 但我们 GT-SAT 公司的反应是: “我们免费将所有受到影响客户的 LNB 全部召回, 并用航空货运发送替换品。”每个收到过有问题 LNB 的安装者马上得到了一个最新的 LNB。“由于我们反应得很快, 我们的客户不仅没有生我们的气, 而且还使我们有机会跟我们的客户表示我们对待客户如同合伙人般的认真态度,” 古尔对他职业生涯的那段插曲还记忆犹新。

当然, 只有当两个合伙人完全平等时才会有这样的想法。“我们不会从客户身上谋求获取多余的利益,” 汤姆持这种观点, 他列出 GT-SAT 公司成功的要点: “品质、服务、信誉和沟通。”

如果你想要看到这两个人, 就去参观科隆 ANGA 展会上 GT-SAT 公司的展台, 他们是每年都出席的。“我们想要扩大我们的合作,” 汤姆告诉我们并邀请进口商、批发商和分销商与 GT-SAT 公司联络。

GT-SAT 公司令人印象深刻的是作为合伙人的汤姆和古尔的真正一致。他们俩都拥有同一个目标, 更有对如何到达目标的相同理解。

这种牢固的关系, 将会给 GT-SAT 公司以及现有和将来的合伙人带来长久的成功。

New at GT-SAT

▲ GT-SAT 公司不久将会推出这款 3° 间隔的一体化 LNB。还会推出 4.3° 间隔的一款。

▲ 这是 2008 年第三季结束时第一个新款圆极化四输出 LNB 测试样本。GT-SAT 公司同时也正在开发一款预定的单缆 LNB。大多数 GT-SAT 公司 LNB 的显著特点是 40 毫米长的颈部, 这可以使 LNB 的安装完全对准焦点。

◀ 这款频率范围为 12.2 到 12.7 GHz 的圆极化 LNB 是为美国市场设计的, 在这期《国际卫星电视》杂志里将做介绍。

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USB Universal Serial Bus
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NanoXX 9200, 9400

Digital Satellite Receiver of Premium Quality

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- + USB1.1 Plug for Software + Channellist Upgrades + JPG-Foto Show
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- + Nanoxx 9400: same as 9200 but additional 2 Common Interface Slots



NanoXX 9300C

Digital Cable Receiver of Premium Quality

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- + 1 Smart Card Reader for Conax, X-Crypt, DG-Crypt, Firecrypt and Crypton
- + 2 Common Interface Slots



NanoXX 9600IP

Digital Satellite Receiver incl. IP PVR Function*

- + 6.000 Channels Memory,
- + Ethernet RJ45 Plug for Software Upgrades via Internet
- + 1 Smart Card Reader for XCrypt



* Record Video in MPEG format directly over your LAN Home Network to the hard disk of your Personal Computer (Windows). The needed Software Tool is included on CD Rom.
Before you can use the IP PVR function an automatic software upgrade via the internet has to be made to the Set-Top-Box in order to install the latest firmware version to the Set-Top-Box (Internet connection required).

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Distribution Austria
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A - 5020 Salzburg
<http://www.p-sat.at>

<http://www.nanoxx.info>

NANOXX

首尔的 NASA 公司

通常，当你听到 NASA 这个名字的时候会立刻想到空间旅行，同时也会想到有关卫星技术。一家和美国太空总署名字很像的 NASA CNS 公司一定值得寻找，而这正是我们要做的。

老板兼总裁申惠泰在他那位于首尔市中心附近龙山的办公室里向我们问候。直到 2007 年 6 月，这家公司仍然称为 NASA，现在它叫做 NASA CNS。申惠泰解释这个缩写是：“世纪卫星网络”。

申惠泰告诉我们公司的起源，“我的职业生涯起始于大宇公司，那是一家韩国最大的企业集团。”但是没多久，他看见没有更多的晋升机会，就决定跳槽到卫星器材批发商“富士卫星”公司。这家公司现在已经不存在了。

“2000 年 6 月，我创办了我自己的公司，它是一个个人独资公司，”申惠泰回忆说。今天，值得他骄傲的是公司已经有了 10 位员工。“3 位从事销售，其他的 7 位是技术人员。”

他与 10 家值得信赖的公司签有合作协议来从事安装工作。“我们在韩国获得独家

授权：在首尔和京畿安装天线接收美国军事网(AFN)”，申惠泰解释说，“AFN 由 NSS6 卫星转发，在韩国这里接收用一个 65cm 的碟形天线就足够了。”

接收设备是从美国 PX 公司购买的，可设定地址的 PowerVu 接收机。他的客户只有美国的军事人员，NASA CNS 每年大约销售 1500 套接收系统。“我们销售额的 70% 来自卫星器材”，申惠泰解释说，其余的来自于 MATV 设备。他们销售额的 30% 来自经销商和私人用户。

申惠泰对于未来有什么打算吗？“我们并没有更多的卫星生意可期待”，申惠泰悲观地说，“只有到了 2011 年发射新的卫星时，我们的生意也许会好些。”更详细的卫星项目信息现在还不知道。申惠泰正在努力扩展销售。“2006 年，我们有十五亿元韩元的销售额。”这大



NASA CNS 租用了龙山市郊这栋小办公楼的一楼、地下室和屋顶。

约是 110 万欧元。到 2007 年，申惠泰希望增加到 150 万欧元。

尽管外界环境有一定困难，但是 NASA CNS 正在努力保持不败。

申惠泰是 NASA CNS 公司的创办人兼老板。除了接收 AFN 的韩国 65cm 天线（右后面），他最畅销的产品是从台湾获得的 1.8 米天线。“我们一年销售 200 个这种天线”，申惠泰解释说。每年销售 100 个 2.4 米分瓣天线，而其他尺寸如 1.6 米的大概每年销售 300 个。



经理技术阿历克谢·李在屋顶上。他解释说，“蓝色的 1.8 米天线指向亚洲 3S 卫星，白色 1.6 米天线对着 THAICOM 1A 卫星。”在屋顶上可以发现更多的天线：一个 1.6 米天线接收日本的 BSAT 卫星，55cm 的天线接收 KOREASAT 卫星，而一个 65cm 天线则接收 NSS6 卫星。阿历克谢·李解释了为什么那大的 2.4 米天线没被连接，“我们最近刚把它搬到这里，还没有及时运来电缆线。”



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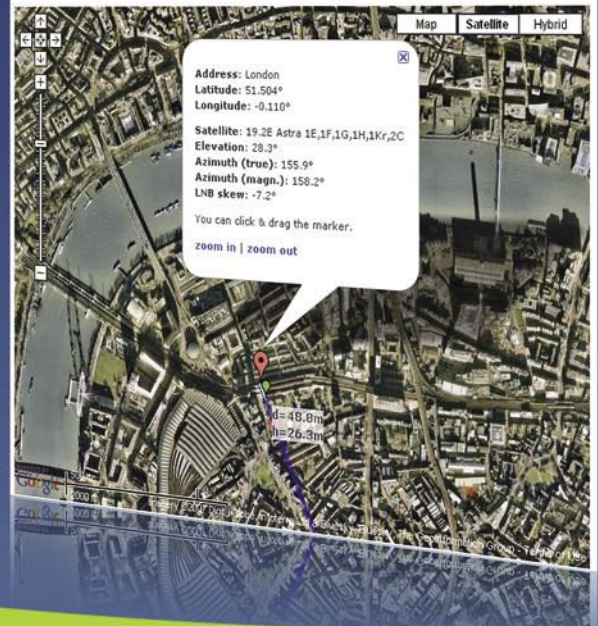
International location: e.g. streetname, postcode, geocode:

London

Popular Satellites:

28.2E Astra 2A-8-D	26.0E Badr-2,3,4/Eurobird 2
13.0E Hotbird 6,7A,B	5.0E Sirius 2,3
19.2E Astra 1E,1F,1G,1H,1K,2C	5.0W Atlantic Bird 3
+2.0E Turksat 1C, 2A	7.0W Nilesat 101,102, Atlantic Bird 4
16.0E Eutelsat W2	1.0W Intelsat 10-02

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



References



www.dishpointer.com
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申惠泰站在卫星接收机柜旁,所有屋顶上的天线都与此相连。他很高兴《国际卫星电视》杂志介绍他的公司。

亚加达的 维那斯之星

PT Subur Semesta 公司 1978 年在爪哇的雅加达成立，这是组成印尼的 17,000 个岛屿之一。二亿二千万居民的 60% 约一千五百万居住在首都雅加达的爪哇，甚至还要多出数百万。在这里引人注目的是一颗非常明亮的星，因为 PT Subur Semesta 使用行星维那斯当做他们的商标。令人惊奇的是上帝的爱神维那斯会让你微笑。公司的创办人之一梁天福，提出了这个名字——一个聪明的主意！

但是梁天福不是唯一的创办人，他的合伙人现在还有 Thiang Tiong An。“我们开始时本来是个电话配件厂。后来我们做应急灯，也就是说，将灯泡与电池安装在一起，停电时用。”梁天福回忆说。

PT Subur Semesta 在 1989 年进入了卫星市场，当时他们开始生产模拟卫星接收机。2000 年，第一个数字接收机出现了。2002 年，当卫星天线的生产开始的时候，就不好做了。在此期间，公司扩大了它的管理：谢德友又成为合伙人。今天，PT Subur Semesta 公司共有三个合伙人。

2004 年投入了很多资金，谢德友解释说：“我们有了冲压机，这样我们就可以自己生产分瓣天线。”一年后，公司有进行了一项重大投资：“我们又购买了喷漆生产线。”

但是这还不够。谢德友对我们说还有一项更大的投资：“我们还投资了 60 万美元来生产网孔天线。我们每个月可以生产 2 万个天线。”

这是个很大的数字，我们询问他们现在的产量：“现

In western Jakarta, not too far from the international airport, can be found PT Subur Semesta, brand name Venus.

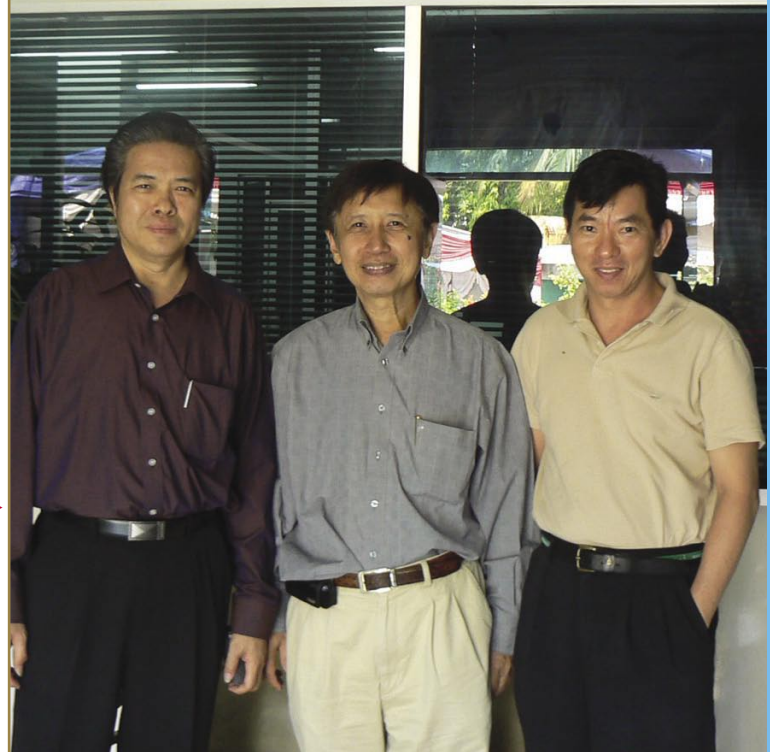
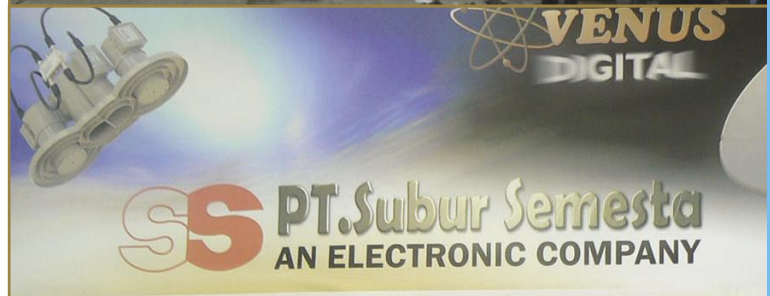
The offices are at the front of the building with the windows, and towards the back are the factory buildings that house the machines to manufacture the dish antennas. The company employs a total of 200 people of which 60 are involved with the manufacture of dishes. They work from 8AM to 5PM Monday thru Friday and on Saturdays to 2PM.

在，我们的产能为每月大约 1.5 万个天线，多数是内销” Thiang Tiong An 解释说，“我们的产品大约占领了 15% 的印尼市场。”

他们生产总数的 80% 是内销，其余的是出口。按照 Thiang Tiong An 的介绍，“我们生产的天线有 40% 销往泰国和越南，其余的小部分销往澳洲和汶莱”。

“当然，我们要扩大出口，”谢德友解释说，“我们重点投资用于提高质量。”PT Subur Semesta 正在组织通过 ISO 验收。“我们期待着 2008 年 4 月的验收结果，”谢德友

PT Subur Semesta's three partners: From the left, Liang Ten Fook, Finance Director, Tjia Tek Ijoe, Managing Director, and Thiang Tiong An, Technical Director



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◀ A devious discovery from Venus: this small tool makes it very easy to precisely align a dish.

漆，而天线材料则使用澳洲制造厂商 Bluescope 公司的镀锌板，这是一种含有 55% 铝和 45% 锌的材料，耐压且持久。”



骄傲地说，“我们实际应用的是 ISO 9001 和 14001。”这就意味着 PT Subur Semesta 公司要遵循最严格的环境指导方针。“为了要取得国际化的成功，我们追求一流的质量”谢德友坚定地说，“例如我们使用的天线涂料，就使用 Akzo Nobel 公司的无铅油

财务经理梁天福深以 PT Subur Semesta 的销售业绩为傲。“每年都会有一些增加”，他说道。“以前每年的增长都少于 10%，而 2008 年我们期待要多于 10%。”

◀ PT Subur Semesta organizes seminars for installers eight times a year. Distributors send their technical people to learn how to quickly and efficiently set up a packaged 1.8-meter antenna with dual-feed LNB. To make these seminars even more attractive, time limits are set and winners are announced. Food and drink is also taken care of as can be seen by the accommodation tent in the background. A large loudspeaker is also set up there to keep the young installers happy with loud music. Each seminar handles 60 installers where they are taught to install a dish such that the dual-feed can successfully receive PALAPA C2 at 113° east and TELKOM at 108° east.

他们销售的 50% 都属于 TVRO 产品，诸如天线和卫星接收机，还有天控器和 LNB。他们还销售‘自制’的角度间隔为 5° 的二合一 C 波段馈源或角度间隔为 5°-2.5°-5° 的四合一 C 波段馈源。不幸的是，PT Subur Semesta 公司真的不希望再有大的生意伙伴出现，因为这种产品太容易仿制了。



◀ The installers take great care to remain within the preset time limits. That would be 45 minutes from the box to successful reception using a dual-feed LNB and 75 minutes for the successful set up of a motorized system. Since Jakarta is located so close to the Equator, the declination angles are very small.

谢德友给我们看了他们的生产情况：“我们制造的 40% 天线其材质为钢板，40% 是镀锌钢板，20% 是镀锌铝锌板，这是最好天线材料。”



◀ Protecting the environment at PT Subur Semesta: Tjia Tek Ijoe shows us the waste water treatment system the company invested in so that they comply with ISO environmental standards.

来自雅加达的维那斯之星公司建立了良好的国际合作关系，并以他们“印尼制造”天线的高质量在国际市场上拥有较高的占有率。

天线是如何制作的



1

1: 左边看到的就是金属卷材。PT Subur Semesta 公司使用三种不同的材料: 钢板、镀锌钢板和镀铝锌板, 后者是一种改进的铝板。其材料厚度是 0.60 毫米, 每卷重约八吨。卷材被送载后面的剪板机。

2: 每瓣天线都被切割自于卷材, 六瓣组成一个天线。一卷大约要用一个工作日才完全被裁完。



2



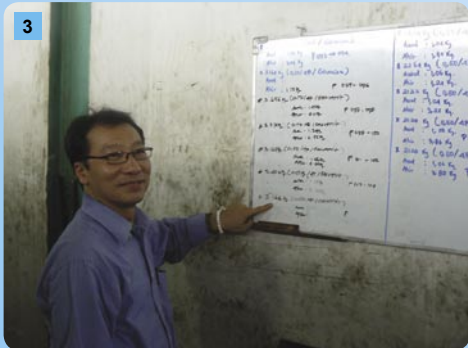
6

3: Santoso 先生是人力资源经理, 他还给我们看了工作计划: 有多少吨的材料被处理。

4: 裁好的板材被这部机器压成抛物面。冲压机的压力有 500 吨。这部机器用于制作 1.8 米分瓣天线。另外一个用于制作 1.5 和 1.65 米的分瓣天线。

5: 下一步是冲孔及处理边缘。

6: 每 12 秒就有一个毛坯堆上来。



3



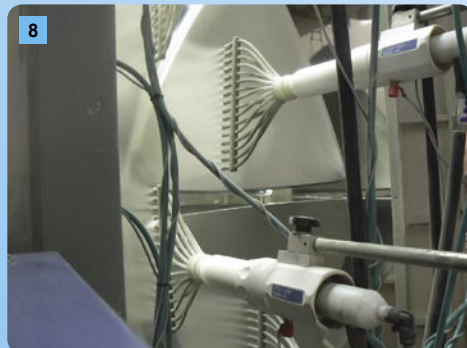
7



11



4



8



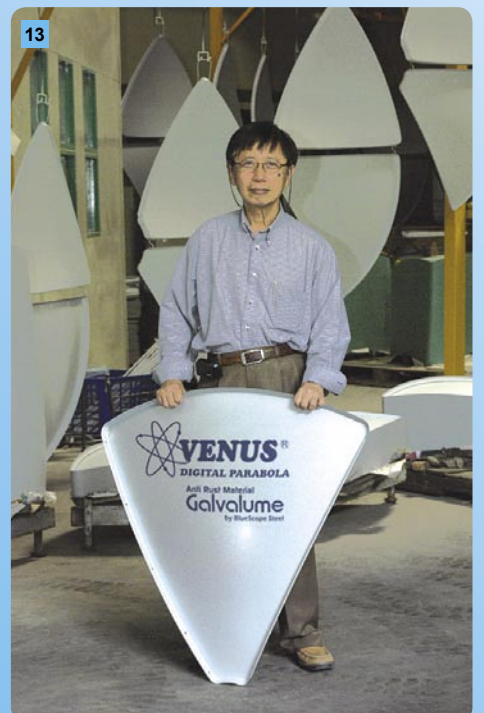
12



5



10



13

7: 处理好的天线毛坯被送去喷漆。一条运送带一次送去四片。没有发现缺陷的要挂到输送带上,他们用手来移动。运送带运行一圈为 300 米,且要花一小时才到达另一边。

8: 自动喷枪在喷漆。

9: 一位职员在用手认真检查。

10: 工件喷过漆、通过了质量检查后被放在一个烘干室内。

11: 一位员工使用一个测微计检查油漆厚度,它必须在 55 和 60 μm 之间。

12: 成品。PT Subur Semesta 也生产 OEM 天线。梁天福在这里向我们展示三个样品: 钻石天线的客户在泰国, Unisat 在越南, 而 BN 在汶莱。

13: 这瓣天线带有维那斯的名字: 谢德友向我们展示镀铝锌板列的一款。内销的 1.8 米天线是他们的畅销品, 占销量的 90%。1.5 和 1.65 米型号用于出口, 占 10%; 出口的 80% 为 1.8 米型号。

谢德友解释说也并不总是那样, “2007 年, RCTI 电视频道转到了 PALAPA C2 上一个非常弱的转发器。这在印尼是第一个



Receiver Assembly at PT Subur Semesta



私人电视频道, 非常流行, 但是现在每个人不得不购买 1.8 米的天线。”可笑的是 RCTI 和卫星经营者 PALAPA 属于相同的公司。他们没有按照大家的期望用自己公司最好的转发器来转发电视频道, 却用了最弱的。为什么呢? 最强的转发器可以卖个更好的价格。这个逻辑给 PT Subur Semesta 及其大天线带来了好生意。

14: 成品在装箱: 六瓣天线连同支架被包装在一起。

15: 环形梁架是用 5.4 米长、20 \times 20 毫米的长条方管制成。

16: 环形天线托架被一起焊接。

17: 制成的六瓣天线成品箱准备运往世界各地



1: 使用一家中国制造厂家的零部件, PT Subur Semesta 用他们自己的维那斯名字组装卫星接收机。接收机器的底座为本地生产。电源板在左边, 主板在右边。

2: 测试台之一: 接收机器的每个元件都要通过电性能测试

3: 装配好的维那斯接收机内部。

4: 杨备松负责维那斯接收机的软件。他正站在通电测试台之前。每个接收机器都要经过四小时的通电测试, 在将接收机交给客户之前检查是否有任何问题。



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Edited by
Stefan Hagedorn

CHINASAT 9

With a launcher called Long March 3 B, CHINASAT 9 will start in March 2008 for operation at 134° East. The bird will use 22 Ku-band transponders.

CHINASAT 9 134.0° East

Ku-Band
China
40 46 50

<http://www.SatcoDX4.com/1340>
Coverage Code **CHI009KB**

GALAXY 18

This satellite will start in March or April 2008 with a Zenit 3 rocket. It will provide 24 Ku- and 24 C-band transponders on 123° Ost (237° West). It will replace GALAXY 10R, which was launched in 2000 with a life expectancy of 15 years. Due to high energy consumption in August 2004, lifetime of GALAXY 10R has been reduced significantly.

GALAXY 18 237.0° East

C-Band
42 46 49

<http://www.SatcoDX6.com/2370>
Coverage Code **GXY018CB**

GALAXY 18 237.0° East

Ku-Band
42 46 49

<http://www.SatcoDX6.com/2370>
Coverage Code **GXY018KB**

VINASAT 1

This new bird called VINASAT 1 will use 12 Ku- and 8 C-band transponders at 132° East. Launcher is Ariane 5 and launch time in April/May 2008. The bird will be in co-position to JCSAT 5A. This satellite has a minimum service life of 15 years.

VINASAT 1 132.0° East

Ku-Band
42 46 50

<http://www.SatcoDX4.com/1320>
Coverage Code **VIN001KB**

VINASAT 1 132.0° East

C-Band
38 40 42

<http://www.SatcoDX4.com/1320>
Coverage Code **VIN001CB**

AMC 14

With a Russian Proton rocket AMC 14 will start in March or April 2008 into the orbit. It will use 32 Ku-band transponders on 298.5° East (61.5° West) and will replace ECHOSTAR 3.

AMC 14 298.5° East

Ku-Band
42 45 49

<http://www.SatcoDX8.com/2985>
Coverage Code **AMC014KB**

STAR ONE C2

This bird will start in end of March 2008 with an Ariane 5 rocket into the orbit. The satellite will replace BRASILSAT B4 on 290° East (70° Wset) and has 16 Ku- and 28 C-Band transponders.

STAR ONE C2 290.0° East

C-Band
Brasil
36 38 39

<http://www.SatcoDX8.com/2900>
Coverage Code **STA0C2CB**

STAR ONE C2 290.0° East

Ku-Band
Brasil
43 46 48

<http://www.SatcoDX8.com/2900>
Coverage Code **STA0C2KB**

STAR ONE C2 290.0° East

Ku-Band
Mexico-Brasil
41 44 50

<http://www.SatcoDX8.com/2900>
Coverage Code **STA0C2KM**

DIREC TV 11

With a launcher named Zenit 3, DIREC TV 11 will start into the orbit in March 2008. It will provide 32 Ka-band transponders on 261° East (99° West).

DIREC TV 11 261.0° East

Ka-Band
42 46 48

<http://www.SatcoDX7.com/2610>
Coverage Code **DTV011KB**



●GT-T40



●GT-QD40



●GT-PSF40A



●GT-MINIT



●GT-TMO40

GT-SAT INTERNATIONAL



●GT-T23



●GT-LST40



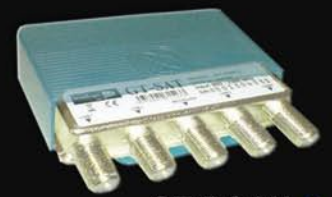
●GT-MINIS



●GT-S40B



●Rain Cover



●GT-DS41L

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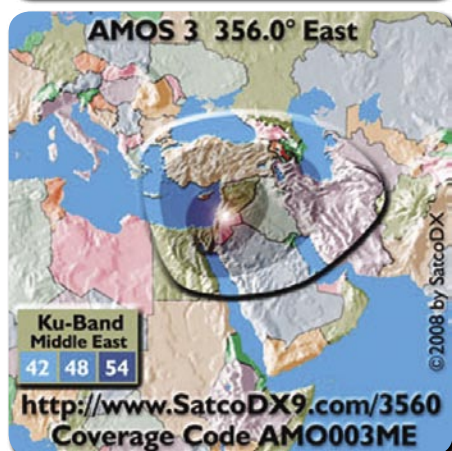
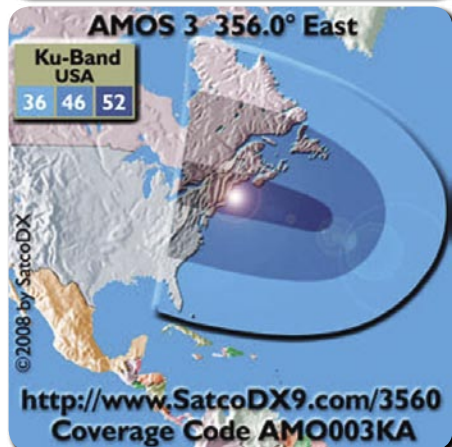
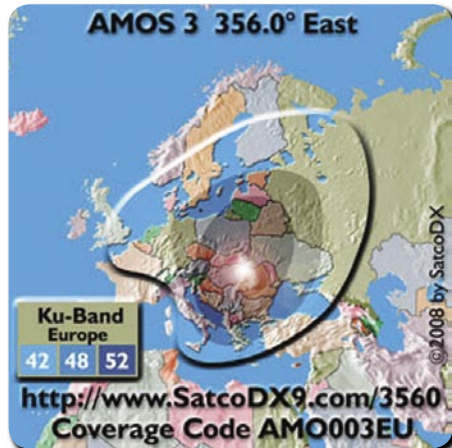
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Edited by
Stefan Hagedorn

AMOS 3

AMOS 3 is scheduled to be launched with a Zenit 3-rocket on 24 March 2008. It will replace AMOS 1 at 356° East (4° West). AMOS 3 will provide 15 Ku-Band transponders with a bandwidth of 72 MHz. The new bird will have a lifetime of 12 years.



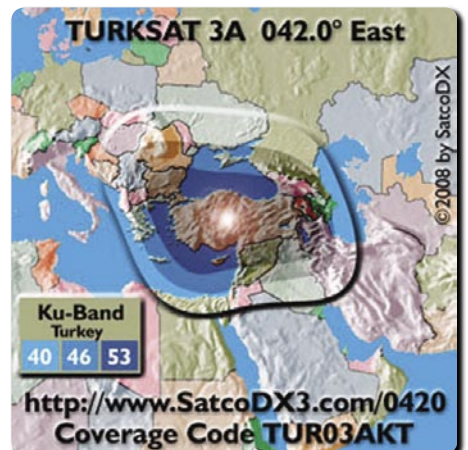
BADR 6

It will bring 20 Ku- and 24 C-Band transponders for 26° East. BADR 6 will provide more space for this important orbit position in the Arabic world. Launcher is once more Ariane 5.



TURKSAT 3A

Another brand-new bird for Turkish viewers will start in March or April 2008 with an Ariane 5-rocket. It will use 24 Ku-band transponders at 42° East, replacing TURKSAT 1C.



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satellite chart

Compiled by the Worldwide SatcoDX Monitoring Stations, exclusively for TELE-satellite Magazine
New Channels Since Last Issue of TELE-satellite Magazine are marked with a ●

Region	Channel Name	Frequency	Symbol Rate	Modulation	Notes	
EUROBIRD 4 4.0° East	11.233H Pro TV	23500	11.804H TV4	23500	12.902V XSI Data	23500
	11.233H Teleport	23500	11.804H TV4 Plus	23500	12.988H Test 70p	23500
	11.233H Eurosport	23500	11.804H TV8	23500	13.024H VHF HORROR	23500
	11.233H Euro 4	23500	11.804H Viacom	23500	13.024H NEWS	23500
	11.233H Euro 2	23500	11.804H Viacom Sport HD	23500	13.024H HITTEST HTS	23500
	11.233H Euro 1	23500	11.804H Viacom (TV1)	23500	13.024H SERVICIO (TV1)	23500
	11.233H Euro 3	23500	11.804H Viacom3	23500	13.024H VBFST	23500
	11.233H Euro 5	23500	11.804H Viacom HD	23500	13.024H BFBS	23500
	11.233H Euro 6	23500	11.804H Viacom Test 70p	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 7	23500	11.804H Viacom HD	23500	13.024H R2 WORLD	23500
EUROBIRD 4 004.0° East	11.233H Euro 8	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 9	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 10	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 11	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 12	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 13	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 14	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 15	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 16	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 17	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
EUROBIRD 9 009.0° East	11.233H Euro 18	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 19	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 20	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 21	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 22	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 23	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 24	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 25	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 26	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 27	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
EUROBIRD 13 013.0° East	11.233H Euro 28	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 29	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 30	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 31	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 32	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 33	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 34	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 35	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 36	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 37	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
EUROBIRD 13 013.0° East	11.233H Euro 38	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 39	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 40	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 41	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 42	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 43	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 44	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 45	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 46	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 47	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
EUROBIRD 13 013.0° East	11.233H Euro 48	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 49	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 50	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 51	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 52	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 53	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 54	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 55	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
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	11.233H Euro 57	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
EUROBIRD 13 013.0° East	11.233H Euro 58	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 59	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
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	11.233H Euro 61	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 62	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 63	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 64	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 65	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 66	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 67	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
EUROBIRD 13 013.0° East	11.233H Euro 68	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 69	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 70	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 71	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 72	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 73	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 74	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 75	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 76	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500
	11.233H Euro 77	23500	11.804H Viacom HD	23500	13.024H R2 EPHEMANT	23500

Main satellite chart table with columns for Free PO Channel Name, Symbol rate, and GHz. It lists numerous channels across various satellites like Hotbird 9, Astra 1N, and Astra 1R.

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- Additional features: Weitere Ausstattungsmerkmale: • HDMI-Ausgang für den Anschluss an ein HDTV-fähiges TV-Gerät • YPbPr-Ausgang • Optischer Audio-Ausgang für Dolby Digital-Datenstrom (AC 3) • Kathrein-Komfort-EPG mit Timer-Programmierung

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Main table containing satellite data with columns for Frequency (Freq), Channel Name, Symbol rate, Coverage Code, and Channel Name. Includes various satellite names like THAICOM 5, EXPRESS AM2, INSAT 4A, and many others.

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