

# 国际 TELE SATELLITE 杂志 & BROADBAND

国际卫星电视 和 宽带

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## 测试报告 NanoXX 9400



超级快速盲扫接收机

## 测试报告 TechnoTrend Scart TV S100



迷你卫星接收机

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## 测试报告 ARION AF-4000HDCI



完备的高清电视卫星接收机



# Arion High Definition

完整的 SatcoDX 全球卫星图表

来自公司的报道  
首尔的卫星接收



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## TF7700HDPVR

### HD Digital Satellite PVR

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SatcoDX 《卫星的世界》  
CD-ROM 3.12版

注意：欲从较早的3.11版更新到3.12版，请安装该《卫星的世界》CD



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德国 欧盟

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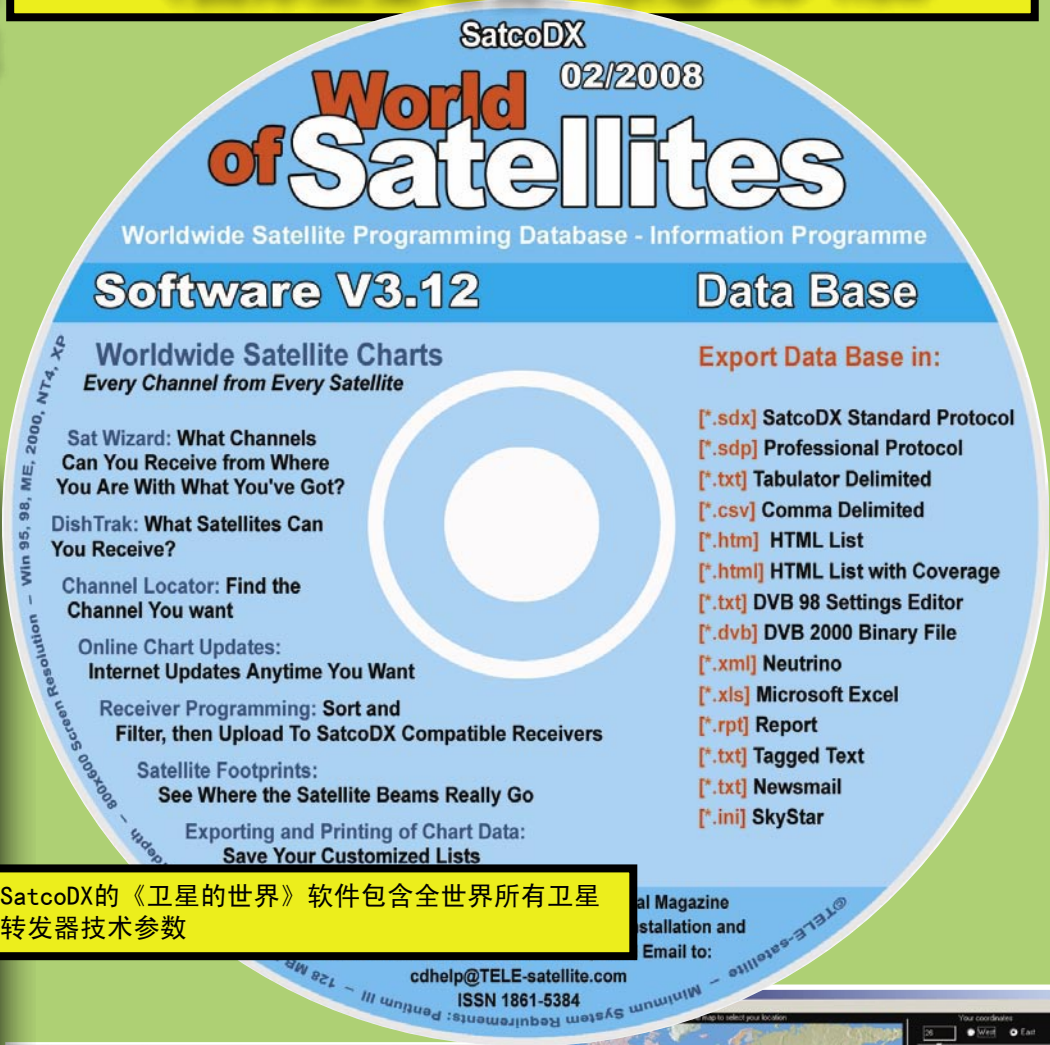
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SatcoDX的《卫星的世界》软件包含全世界所有卫星转发器技术参数

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



自动载入卫星频道数据到与SatcoDX兼容的接收机中

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

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- SatcoDX Industry Standard Protocol Professional [\* .sdp]
- SatcoDX Tabulator Delimited Text File [\* .txt]
- SatcoDX Comma Separated Text File [\* .csv]
- HTML (SatcoDX Style) [\* .htm]
- HTML List (With Coverage Images) [\* .html]
- HTML List (Without Coverage Images) [\* .html]
- DVB '98 Settings Editor Text File [\* .txt]
- DVB2000 Binary File [\* .dvs]
- Neutrino XML files [\* .xml]
- Microsoft Excel File[\* .xls]
- Report [\* .rpt]
- Tagged Text File [\* .txt]
- Newsmail [\* .txt]
- SkyStar INI files [\* .ini]

以多种格式保存网页数据



以HTML格式打印包含卫星场强图的频道列表

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الإنترنت فائق السرعة  
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EGYPT 20 EP

تقرير اختبار NanoXX 9400  
رئيسي للبحث الأعمى عن القنوات بسرعة فائقة

تقرير اختبار ARION AF-4000HDCI  
HDTV مستقبل جيد

تقرير اختبار TechnoTrend Scart TV S100  
الرسيفر الخفي

المجلة SateoDX الكاملة للأقمار الصناعية العالمية

نظري عن دولة استقبال الأقمار الصناعية في ليبيا

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ProSieben

ARION Good Choice Better Life

ARION AF-4000HDCI

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Най-голямото сателитно списание в света

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Нови продукти NanoXX 9400  
Супер бърз приемник с Blind Scan

Нови продукти TechnoTrend Scart TV S100  
Невидим сателитен приемник

Един перфектно оборудван HDTV приемник

Пълна спътникова таблица на SateoDX

Новини от компанията Спътниково приемане в Сеул

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Receiver Blind Scan Super Cepat

Laporan Uji ARION AF-4000HDCI  
Receiver HDTV yang Sangat Lengkap

Laporan Uji TechnoTrend Scart TV S100  
Receiver Satelit Tidak Kelihatan

Daftar Lengkap Satelit Global SateoDX

Laporan Negara Penerimaan Satelit di Seoul

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Bahasa Indonesia

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Testbericht NanoXX 9400  
Superschneller Blind Scan Receiver

Testbericht TechnoTrend Scart TV S100  
Unsichtbarer Satelliten Receiver

Voll ausgestatteter HDTV Receiver

Die komplette SateoDX Globale Satelliten Liste

Länderbericht Satellitenempfang in Seoul

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WORLD The World's Largest Satellite Magazine # 202

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Test Report NanoXX 9400  
Super Fast Blind Scan Receiver

Test Report ARION AF-4000HDCI  
Perfectly Equipped HDTV Receiver

Test Report TechnoTrend Smart TV S100  
Invisible Satellite Receiver

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The Complete SatcoDX Global Satellite Chart

Country Report Satellite Reception in Seoul

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English

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Récepteur à balayage aléatoire super rapide

Rapport de Test ARION AF-4000HDCI  
Récepteur TVHD parfaitement équipé

Rapport de Test TechnoTrend Smart TV S100  
Récepteur satellite invisible

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Info Pays Réception satellite à Séoul

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Receptor Súper Rápido de Búsqueda Ciega

Informe de Prueba ARION AF-4000HDCI  
Receptor de HDTV Perfectamente Equipado

Informe de Prueba TechnoTrend Smart TV S100  
Receptor de Satélite Invisible

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Πολύ Γρήγορος Δέκτης Τυφλής Ανίχνευσης

Αναφορά δοκιμής ARION AF-4000HDCI  
Τέλεια Εξοπλισμένος Δέκτης HDTV

Αναφορά δοκιμής TechnoTrend Smart TV S100  
Αόρατος Δορυφορικός Δέκτης

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**Test uređaja Techno Trend Smart TV S100**  
Nevidljivi satelitski prijemnik

Savršeno opremljeni HDTV prijemnik

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Kompletna SatcoDX globalna satelitska lista

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Szupergyors vakasztató beltéri vevőegység

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**Teszt beszámló Techno Trend Smart TV S100**  
A láthatatlan műholdvevőegység

Egy kitűnően felszerelt HDTV beltéri vevőegység

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Velocissimo Ricevitore con Blind Scan

**In Prova ARION AF-4000HDCI**

**In Prova Techno Trend Smart TV S100**  
Ricevitore Satellitare Invisibile

Ricevitore HDTV Perfettamente Equipaggiato

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Rapporto Nazionale Ricezione Satellitare a Seul

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Supersnelle Blind Scan Ontvanger

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Onzichtbare Satelliet Ontvanger

Perfect Uitgeruste HDTV Ontvanger

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Сверхскоростной ресивер со слепым поиском

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Невидимый спутниковый ресивер

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Super szybki odbiornik skaner

Raport z testów TechnoTrend Scart TV S100  
Niewidzialny odbiornik satelitarne

Doskonale wyposażony odbiornik HDTV

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Raport z testów ARION AF-4000HDCI

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Super Hızlı Kör Tarama Fonksiyonlu Alıcı

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Test ARION AF-4000HDCI

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# Universal Octo



- world class technical design
- superior performance
- up to 8 receivers
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Twin



Quattro



Quad



Monoblock



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Twin



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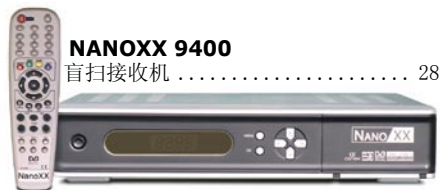
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# 亲爱的读者们

在这本期的《国际卫星电视》中,我们将给您展示一款迷你卫星接收机,它竟然如此小巧而让你不知道该把它放在哪里,只想插上电源试试它。多么聪明的创意啊,可是我还在想为什么以前没有人想起做它呢?实际上,是因为没有人愿意费工夫把它做成这样小的尺寸。这又引起一个话题:究竟还有多少绝妙的想法还没有付诸实施。一定还有很多,对吧?

也许原因之一是因为一些产品天生就起了一个错误的名字。而词汇甚至可以产生创新也可以抑制创新。举例来说,对于机顶盒,在《国际卫星电视》杂志里我们通常称之为接收机,这个词在卫星行业里已经变得相当抢眼。那机顶盒究竟是什么意思呢?从字面上看,它一定是放在某种东西的上面。此前,造出的这个词还有意义,因为电视机的上面还有足够的地方来把它放在上面。但是今天的平板电视怎么放它呢?你把接收机放在等离子电视机上看看。目前,机顶盒通常放在电视机下面的架子里。因此,严格地说机顶盒才是接收机的正确名字。



让我们再来关注一下我刚刚在上面提到的迷你接收机。它仍然是一个盒子,但是它既不是在机上也不在机下,而更适合在机后。它不在于放在哪里,而是在于接到哪里。好好想想,你就会同意《国际卫星电视》杂志的提法是正确的:卫星接收机。因为人们说到机顶盒就可能再难以想像到其他的任何概念了。

词组和词汇的意义应该经常被反思。毕竟,这可能产生新的想法。

你们的  
 亚历山大·维思

附: 我本月喜爱的电台是: 在 13° E HOTBIRD 卫星上的“Suryan 电台”(10.949V 27500), 播放印度的流行的音乐。音乐较多,语言很少,只是音质稍欠完美。

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# QUALITY MADE IN GERMANY

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Best rating 2,2

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The first LCD-TV with 3 x DigitalDirect capability



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HDTV for satellite and cable reception

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- opt. out for Dolby Surround Sound
- Nagravision embedded
- HDMI (with HDCP)
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- 2 x Scart

**TOPFIELD** NEW

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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

**eycos** NEW

55.12 PVRH  
HDMI



HDMI Output 576p, 720p and 1080i

- 8000 Services (TV and Radio) programmable
- Alphanumeric VFD Display
- 2 x Common Interface
- USB 2.0
- Videosignal RGB, CVBS, S-Video YUV

**eycos** NEW

S60.12 PV2R  
Multiroom



Digital Multiroom Twin Receiver

- 8000 Services (TV and Radio) programmable
- Alphanumeric VFD Display
- Multipicture Mosaik function
- 2 x Common Interface
- USB 2.0
- Videosignal RGB, CVBS, S-Video YUV

**HUMAX** NEW

PR FOX II



BLU FOX S



ENTAVIO

**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
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**Measuring Instruments**

**emitor** NEW

MEGALOOK



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

- Input frequency: 2-900 MHz and 920-2150 MHz
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- TWH-031
- VQTH-031
- QDH-031
- SNF-031
- TWF-031
- QTF-031
- QDF-031

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**Stab**

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- IBM Power PC ("STB04500/Pallas")
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- One touch recording with capability of taking over the pre-stored time-shift buffer
- Music Player
- API (Plugin) Interface
- Autobookmark (optional)
- Easy Creation of Favorite Lists during live operation
- Twin Tuner (with Loophrough)
- 2 CI + 1 Cardreader (optional)
- Alpha-Numeric VFD Display
- Truecolor OSD (16,7 Mio colors)
- Realtime Clock
- AC3 Dolby Digital Bitstream Output
- DISEQC 1.2 / USALS compatibel

**TOPFIELD** NEW

TF-6000 PVR E-LAN



Digital Satellite Personal Video Recorder

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

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Digital Satellite Wireless Lan PVR

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From 2 in/1 out  
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- DiSeqC Tester

**LNBs**

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- BEST
- INVACOM
- ALPS
- INVERTO, 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

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



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

**Parts**

Multifeeder for 2, 3, or 4 LNB



**Wallmounts**

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



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- F-Connector - 7 mm waterresistant
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- AV-Linker - Videosender for remote control
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- High Quality coax cable
- Minicable Coax
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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

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- 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



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Edited by  
**Branislav Pekic**

**EUROPE**

**FRANCE**

**M6 OPTS FOR ATEME FOR IPTV ENCODING**

French television broadcaster M6 has standardized its IPTV encoding platform around the ATEME Kyriion H.264 solution. M6 can now deploy 9 SD channels and its HD channel M6 HD directly through ADSL. The entire ADSL encoding head-end has been standardized on Kyriion to achieve the best-possible quality and bandwidth efficiency.

**PHILIPS AND CANALSAT SEEK TO BOOST HDTV ADOPTION**

Philips will be supplying high definition set-top boxes to French digital satellite operator Canalsat. Its subscribers will be given Philips dual HD digital satellite receivers, offering PVR and interactive functionality. Additionally, the Dual HD receivers will be made available in a Terrestrial configuration to Canal+ terrestrial subscribers from early 2008.

**NORWAY**

**APAX PARTNERS CLOSES TELENOR SATELLITE ACQUISITION**

Funds managed by private equity group Apax Partners have completed the US\$ 400 million acquisition of Telenor Satellite Services (TSS) from Telenor. The agreement had been signed on 25 October 2006. Telenor Satellite Services offers communication solutions via satellite to land, air and sea. Apax Partners intends to pursue the development of the company in Norway and abroad.

**TELENOR PLANS IPTV IN 2008**

Telenor plans to launch IPTV services in 2008 as it revamps its access networks and aims for 100 percent broadband coverage, the carrier's head of fixed networks, Berit Svendsen, announced. She said the Norwegian government has set Telenor the "tough challenge" of providing a broadband connection to all 2 million households in Norway. The carrier, which claims 94 per cent broadband coverage today, is getting some financial backing from the government to achieve this. Svendsen said Telenor is still to make a decision about its IPTV platform which it will launch during 2008.

**SWEDEN**

**TELIASONERA SIGNS UP 200,000 IPTV CUSTOMERS**

TeliaSonera has reported that it recently registered its 200,000th customer for its domestic IPTV service, double the number reported in May of this year. Currently, over 2.5 million households in Sweden are inside TeliaSonera's footprint for IPTV services. TeliaSonera also reported that its customers set a new record for its VOD service, renting nearly 1,000 movies per day.

**UNITED KINGDOM**

**TISCALI ROLLS OUT IPTV SERVICE NATIONWIDE**

Tiscali has started rolling out its IPTV service nationwide across the UK, and aims to sign up 500,000 subscribers by the end of 2007 and extend its reach to 10 million households. The service, called Tiscali TV, currently has 50,000 customers, mostly in North and West London

and in Hertfordshire. The service was initially extended to central, north and north-west England, with areas in the north-east and Scotland to go live in October. Tiscali TV offers 80 channels, and the basic triple play package of video, voice and broadband is available from £19.99 per month, including Sky's basic channels.

**BBC TRUST IN FAVOUR OF PERMANENT BBC HD SERVICE**

The BBC Trust - the body which must be consulted before any new BBC channel can begin - has indicated it was in favour of a permanent BBC HD service. BBC executives have proposed a daily nine-hour schedule - from 1500 to 0000 - on satellite, cable and Freeview. The trust set down several conditions for the overall HD service, saying it was important to broadcast material from a variety of channels during peak-time evening viewing, rather than simply simulcasting BBC One. A final announcement on the service will be published in November.

**NORTH AMERICA**

**CANADA**

**INDUSTRY CANADA APPROVES TELESAT CANADA ACQUISITION**

Industry Canada has approved the acquisition of Telesat Canada by Loral Space & Communications Inc. and its Canadian partner, the Public Sector Pension Investment Board (PSP Investments). Completion of financing is being coordinated for a late October closing of the Telesat transaction. Last December, the joint venture company formed by Loral and PSP Investments entered into a definitive agreement with BCE Inc. to acquire 100 percent of the stock of Telesat Canada from BCE for CAD 3.25 billion.

**UNITED STATES**

**NRTC and NTCA to offer IPTV programming to rural telcos in US**

The National Rural Telecommunications Cooperative (NRTC) and the National Telecommunications Cooperative Association (NTCA) have teamed up to provide a programming solution to rural telcos seeking to deploy IPTV services. The programming selection includes over 250 video and audio channels from companies such as A&E Television Networks, ESPN/ABC/Disney, Fox News, Discovery Communications, MTV Networks, NBC Universal, The Weather Channel, Showtime Networks, Turner Networks and Comcast Network Services. The distribution agreements include rights for telcos to deliver the programming in Internet protocol format and the use of MPEG-4 compression over copper, fibre or coaxial cable as well as MPEG-2 compression.

**LATIN AMERICA**

**BRAZIL**

**BRASIL TELECOM LAUNCHES IPTV IN BRASILIA**

Brazil's third largest fixed line operator Brasil Telecom has launched the first commercial IPTV service in the country, Videon, initially in the capital Brasilia. However, the company plans to extend in the short term Videon to the main state capitals and cities where the company already has a presence. BRT will offer two types of package: a fixed monthly package with up to 500 hours of programs and a PPV option.

Spain's Telefonica is also planning to launch a IPTV in the São Paulo area. Telefonica is currently testing this technology. Brazil's largest fixed line operator Oi intends to invest US\$ 150 million in an IPTV pilot project in Rio de Janeiro city this year.

**CHILE**

**TELSUR SELECTS RUCKUS WIRELESS FOR IPTV SERVICE**

Ruckus Wireless has been chosen by Telefonica del Sur (TelSur) to supply its MediaFlex to support Latin America's first commercial IPTV service. The Ruckus MediaFlex system, a unique multimedia Wi-Fi solution, extends the range and increase the reliability of Wi-Fi signals while automatically avoiding interference as it occurs. The solution enables flawless streaming of multimedia, such as IPTV channels, over standard 802.11a/b/g Wi-Fi.

**ASIA & PACIFIC**

**AZERBAIJAN**

**AZERBAIJAN RECEIVES FIVE PROPOSALS FOR NATIONAL SATELLITE**

Azerbaijani Communications and Information Technologies Ministry has submitted five proposals to the government on the launch of a national communications satellite. Communications and Information Technologies Minister Ali Abbasov said the package also includes technical and economic assessment of the project. "The government is likely to make a decision in the first half of 2008," he said. According to his words, Azerbaijan will use 25-30% of the capacity of the satellite and will sell the rest to the neighboring countries.

**CHINA**

**CHINA WITH 736,000 IPTV SUBSCRIBERS**

There were 736,000 IPTV subscribers in China in the second quarter of 2007, according to Analysys International. The number of IPTV subscribers increased by 20.3% compared to the previous quarter. UTStarcom was the largest operator of IPTV services in the period, accounting for 43.3% of all IPTV subscribers in the country. Second was Vcom with 39.6%, followed by ZTE with 12.8%, Huawei Technologies with 3.7%, Alcatel Shanghai Bell with 0.5%. Henan, Shanghai and Heilongjiang were the areas of the country found to have the most IPTV subscribers, all with over 100,000 subscribers.

**CCTV TO SET UP HDTV CHANNEL FOR OLYMPICS**

China Central Television has announced the setting up of a new TV channel for the upcoming Olympics, which will use high-definition technology. In China, seven national TV channels are scheduled to broadcast Olympics events, including four public channels, one high definition and two pay-TV channels. An estimated 4,000 hours of live TV signal are needed for the 2008 Games. Chinese broadcasters will provide the signal for the opening and closing ceremonies and the torch relay.

**INDIA**

**BROADCASTERS WANT SAME LAWS FOR IPTV AND TV**

The broadcasters' body Indian Media Group (IMG) has warned the government of the serious security implications of "unregulated" IPTV and mobile TV, which could open a back door for all channels that are banned or do not have permission to downlink in India. Since IPTV and mobile TV are being launched by telecom companies

on their network infrastructure, they are considered to be under the communications and IT ministry. Thus, they are not covered by the information and broadcasting ministry's Cable Television Networks (Regulation) Act of 1995.

#### INDIA LAUNCHES COMMERCIAL SATELLITE

India has launched a replacement for a communications satellite destroyed last year. The Insat-4CR satellite is equipped with 12 transponders. The high-powered satellite will augment the country's communication capacity and help meet increasing demand.

#### JAPAN

##### ARIANESPACE TO LAUNCH JCSAT-12

Japanese operator JSAT Corporation has chosen Arianespace to launch its JCSAT-12 communications satellite. JCSAT-12 will be launched by an Ariane 5 during the summer of 2009 from the Guiana Space Center and will provide service covering Japan, the Asia-Pacific region and Hawaii. Built by Lockheed Martin Commercial Space Systems, JCSAT-12 is designed for a minimum of 15 years in-orbit life and will serve as backup satellite for other JSAT satellites.

##### JSAT CORP SAYS SATELLITE FAILURE WILL NOT HURT BUSINESS

JSAT Corp has said that the failed launch of the JCSAT-11 satellite in Kazakhstan will have no immediate impact on its operations and finances. The company has eight existing satellites in orbit. A rocket carrying the satellite suffered an engine problem and plunged back to earth in a remote part of the country. The JCSAT-11 satellite would have been involved in re-transmitting television broadcasts to Japan and other parts of Asia, as well as to Hawaii. For its part, SES Global said it will delay the launch by Proton of SES's Sirius 4, scheduled for October, and Americom 14, scheduled for December, pending the findings of the official inquiry into the failure.

#### LEBANON

##### ORANGE WINS LEBANON IPTV DEAL

Orange Business Services has announced the signing of a three-year, multi-million US dollar deal to provide an IPTV operating platform for Solidere, the Lebanese Company for the Development and Reconstruction of Beirut Central District. It will be delivered, installed, supported and integrated into the existing Solidere-operated private broadband network that was designed and deployed by Orange in 2006.

#### NEW ZEALAND

##### TELECOM NEW ZEALAND PROMISES IPTV IN 2009

Telecom New Zealand's general manager of video services, Philip King, has announced the launch of IPTV services by late 2009. A full IPTV service will require a dedicated 2Mbit/s link to the home and would also have to be available wholesale, to comply with new telecoms regulations. This would mean any of Telecom's rivals could use the service to deliver their own IPTV offering to customers, which presents its own difficulties, said King.

##### TVNZ TO INTRODUCE HDTV FOR BEIJING OLYMPICS

TVNZ will introduce HDTV on the Freeview Digital Terrestrial Transmission platform (DTT), in time for the Beijing Olympics in August. The public broadcaster will invest in the technology infrastructure to introduce its TV ONE and TV2 channels in HDTV on the Freeview DTT platform by July 2008. On the Freeview DTT platform, TVNZ expects

to initially provide about 50 percent of peak time content on TV ONE in HD, and 80 percent on TV2.

#### SINGAPORE

##### MEDIACORP TO LAUNCH HDTV CHANNEL IN NOVEMBER

From November 11, MediaCorp will officially roll out its high definition free-to-air television signal. Called 'HD5', it is the first high definition channel in Southeast Asia. HD5 will be a simulcast of Channel 5's programming, but only 30 percent of prime time shows will be in true HD format.

#### SOUTH KOREA

##### HANARO TELECOM SIGNS UP 500,000 IPTV CUSTOMERS

Hanaro Telecom, the leading IP TV provider, says that its "Hana TV" has drawn more than 500,000 customers over the past 12 months and expects the figure to double by early next year. The firm has stashed more than 70,000 programs bought from 200 providers worldwide, available at any time a user wants to watch them. The company expects that it will become the largest player in the world in terms of the number of subscribers within this year, passing Hong Kong's PCCW which has around 820,000 users.

##### KT AND SONY TO LAUNCH IPTV SERVICE IN NOVEMBER

KT, Korea's dominant telecom operator, and Sony Computer Entertainment Korea (SCEK) will launch an Internet-based TV service in November that runs on the PlayStation 3 game console. The PS3 console will act as a set-top box for KT's Internet Protocol TV service (IPTV), named Mega TV. It is the first time that Sony has made such an alliance to use the PS3 as an IPTV set-top box.

#### UNITED ARAB EMIRATES

##### UAE TELCO SELECTS LATENS FOR IPTV SERVICE

Latens has been selected by United Arab Emirates (UAE) telco du to secure its new IPTV service. Latens is to protect the Motorola IPTV set-top boxes deployed by du, and the contract will see Latens' conditional access rolled out in the fourth quarter of 2007. du has now registered over 500,000 customers for its multilingual IPTV service since launch less than a year ago, representing over 10% of the population of the UAE.

#### AFRICA

#### SOUTH AFRICA

##### TELKOM MEDIA GETS SATELLITE AND IPTV LICENSE

Telkom Media has been awarded a commercial satellite and cable broadcasting licence by ICASA, the industry regulator. The licence allows Telkom Media to operate both a satellite pay-TV service and an IPTV service in South Africa. Telkom Media plans to use both satellite and cable - which will most likely involve ADSL 2+ - to bring their offerings to consumers. Telkom Media plans to offer a range of international channels that previously have not been available in South Africa and has started negotiations with a number of international content providers. Telkom Media's own channels will include a 24 hour news service, sports channels, general entertainment and current affairs programs. Telkom Media will also bring HDTV content - which may include the 2010 World Cup - to consumers.

**TERRA**

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# Who makes HD quality?

High Definition Digital Satellite Receiver  
ARION AF-4000HDCI



HDMI Digital Audio & Video Output / Easy and Fast  
Auto Programming, Intuitive User Interface / Supports  
RS-232C port for S/W upgrade

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# 宽高比, 仅仅这么简单吗?

Jacek Pawlowski

**宽** 宽高比就是图像宽度高度的比值。十年来, 虽然使用过许多不同的比值, 范围从小到 1.19:1, 大到 4:1, 我们实际上在数字电视中只使用了两个 - 1.33:1(或称 4:3) 和 1.56:1 (或称 16:9)。

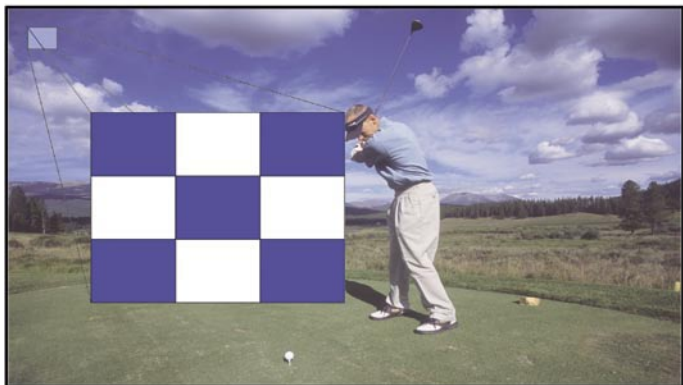
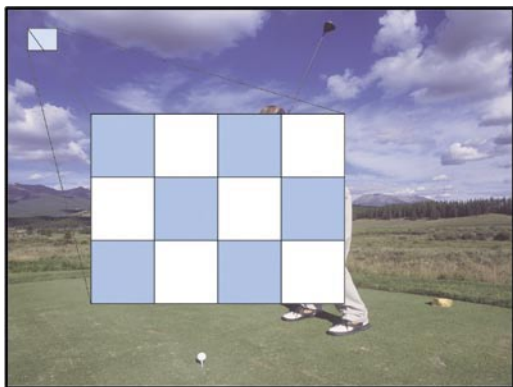


图 1. 标清电视、宽屏幕标清电视和高清电视的宽高比。屏幕中被放大的部分表示像素的大小和形状。

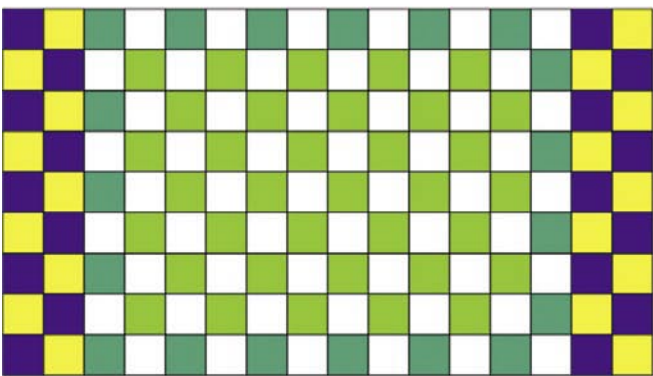
标清电视(SDTV)通常用 4:3 的格式传输, 但是有时你可能看到宽屏幕标清电视信号也采用 16:9 的宽高比。后者虽然与高清电视有着相同的宽高比, 但绝对是不一样的! 例如在图 1 中你可以看到, 在相同屏幕区域里, 高清电视比宽屏幕标清电视传输了更多的像素。换句话说, 宽屏幕标清电视与高清电视有着相同的宽高比, 但图像质量却相差很多。而且, 当 4:3 的标清电视和 16:9 高清电视在表现一个正方形像素的时候, 宽屏幕标清电视却使用了水平伸展的多个像素。

当对数字信号编码的时候, 是可能包括屏幕最重要部份坐标的。因此, 我们可能看到中央部份或比中央部份多些左边或右边的部份。

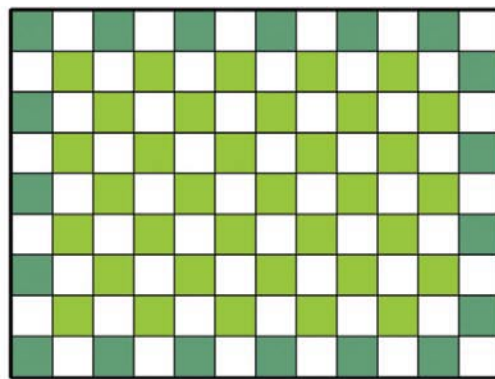
它是自动工作的 - 我们感觉不到它。

然而, 如果你不相信我, 就把 4:3 的电视放在 16:9 的电

不同宽高比的信号是如何在我们电视机上显示的呢? 它取决于机



STB setting: Pan & Scan



STB setting: Letterbox

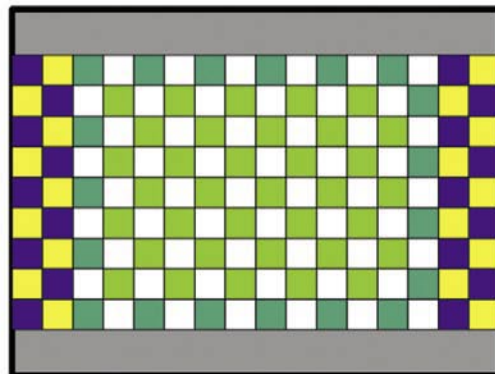


图 2. 在 4:3 电视机上见到的 16:9 信号。

顶盒 (STB) 和电视机本身。让我们来看看各种情况吧。

传统的 4:3 电视机通常没有处理任何信号宽高比的功能。因此我们所要看的只能取决于接收的信号和接收机的设置功能。

图 2 显示我们能在机顶盒上进行的两种设置: 全屏或窄屏。窄屏会在图像的上下面形成黑边, 而全屏只能显示图像的一部份(但

## 4:3 电视机上的 16:9 信号



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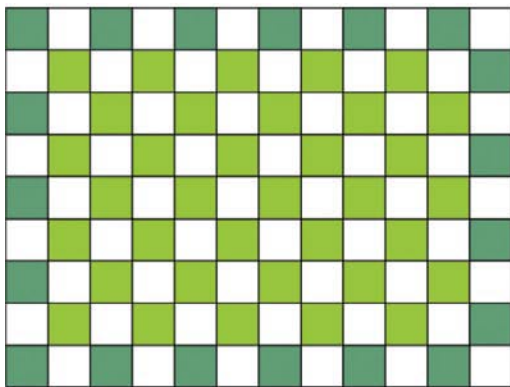
#### EZ-2200

#### MP880

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



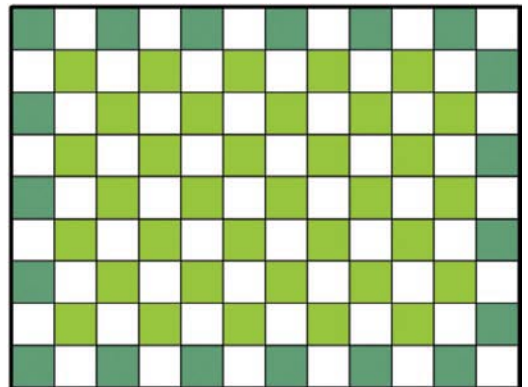
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### 4:3 电视机上的 4:3 信号

为什么考虑在 4:3 电视上放 4:3 的信号? 当然, 如果信号真的是 4:3 的, 那就没有问题。我们在传统电视机上司空见惯了。多数的卫星频道仍然在传输这种信号。然而, 有时碰巧用 4:3 的信号传输宽屏幕电影, 见图

视上同时调到 16:9 的信号来观察它们。当然, 如果两者图像高度相同的话这很容易。

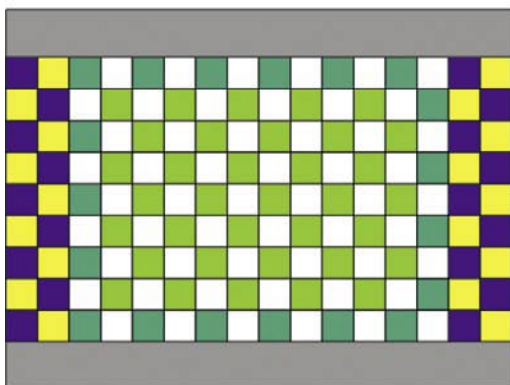


Any STB setting



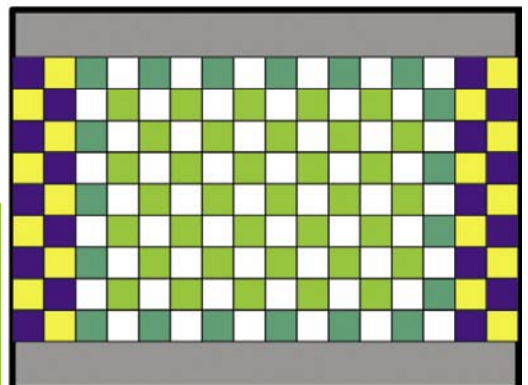
情形。对于节目供应商来说, 通过数字电视传输这样的内容确实不太公平, 但是如果相同的地面模拟电视信号再通过卫星进行数字传输, 我们就可能原谅他们。

我们正期待着你的全屏相片!



3. 如果 4:3 信号已经包含了黑边, 那无论我们在卫星接收机上怎样设置, 我们都会在 4:3 电视机会见到黑边。你以前在模拟电视上一定曾经见到过这种

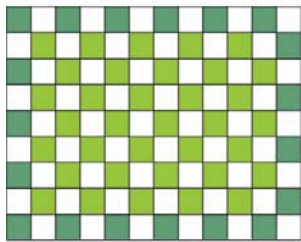
图 3. 如果 4:3 信号已经包含了黑边(从宽屏幕电影转换后), 无论我们怎样设置在 4:3 电视机里也会看见它们。



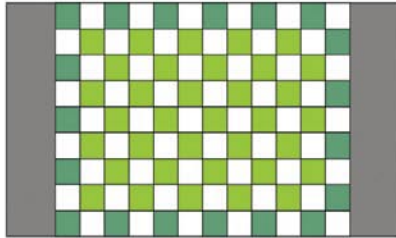
16:9 电视机上的 4:3 信号  
这是比较棘手的一部份。我们有最新的平板电视或有 16:9 宽高比的显像管电视，信号却与其不相配。

我通过设置接收机和电视机来尝试产生各种不同的图像。

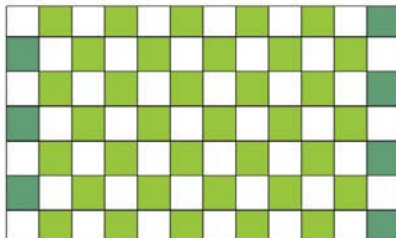
尽管各种不同类型机顶盒的功能名称不尽相同，但基本上都有两个选项：全屏和窄屏。



STB setting: Letterbox

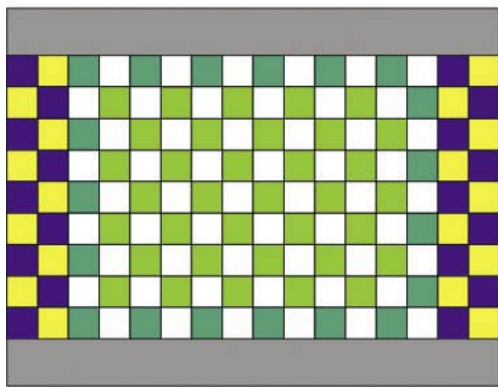


STB setting: Pan & Scan

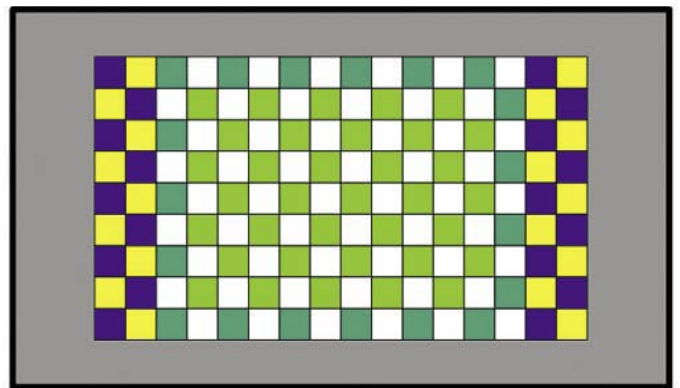


一些机顶盒具有全屏模式，此时图像用一种可以充满整个屏幕的方式传输。它水平方向被压缩（流媒体是 16:9；电视是 4:3），或垂直方向被压缩（流媒体是 4:3；电视是 16:9）。由于这种操作不常使用，我没有一幅现成的图画。

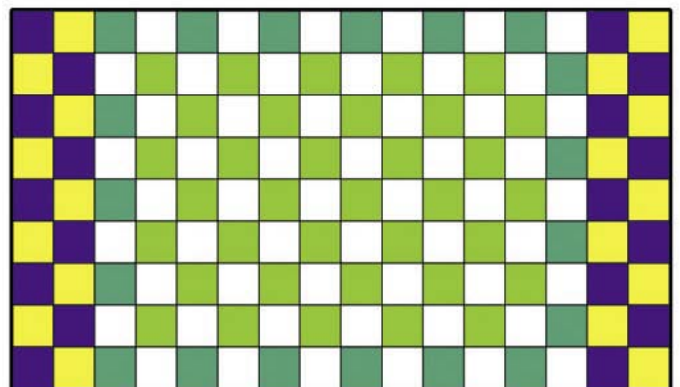
最常见的是，一架电视机不经



STB setting: Letterbox



STB setting: Pan & Scan

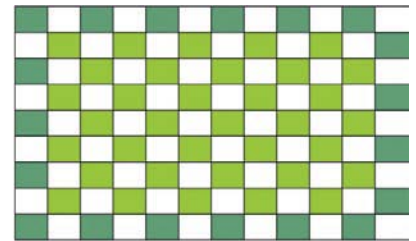


任何处理（图 4 的第二栏），也不伸展也不变焦（图 4 的第三栏）。大部份的使用者可能会在接收机中选择窄屏设置而在电视机中选择非线性伸展。图像将被扭曲，但是主要是在左边和右边的边缘上，而不是在中心。

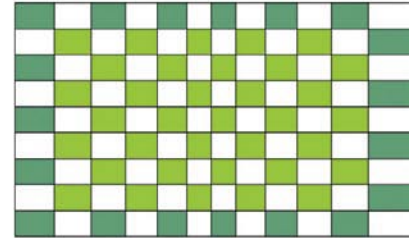
然而，如果 4:3 信号是宽屏幕电影转换的其效果不是最佳——看看图像的底部就知道了。在这种情形中，最佳的设置是接收机设置成全屏而电视机设置成常态。

很显然，我们能通过使用窄屏 + 变焦就能取得相似的效果（图上没有显示），但是图像质量将会变坏。那是因为我们最初产生一张小图像然后要在电视机中放大它。在接收机自身中产生较大

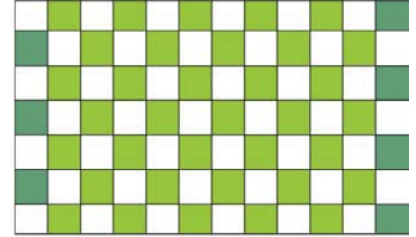
我们不得不根据输入信号的改变而时常改变机顶盒和电视机的设置。通用的



TV-set setting: Stretch (Full)



TV-set setting: Nonlinear Stretch



TV-set setting: Zoom

图 4. 在 16:9 电视机上显示 4:3 信号。

的图像总是要更好些。

### 结论

那我们应该如何设置我们的接收机和电视机呢？对于所有信号来说，没有任何设置是完美的，而且还要看你是否厌烦黑边（或者灰边）。举例来说，如果你的电视机足够大，而且你又能够接受黑边，则图像质量可能最接近最初。毕竟谁喜欢见到发胖的世界小姐呢？噢，也许有些女人会…

规则是：尽可能少用电视机来处理图像。让卫星接收机产生图像会接近你想要见到的效果。这样，你将会得到较好的图像质量。

幸运的是，高清电视信号和高清电视机具有 16:9 的宽高比。当所有频道都支持高清电视时，这个问题将不再存在。让我们再忍耐力吧。

# Arion AF-4000HDCI

## 功能齐备、设计风格现代的高清电视接收机

AF-4000 HDCI 具有流行的钢琴外壳，标准机柜的尺寸 (43×27.5×6.3cm)，醒目的 12 位数码管显示，两个状态显示发光二极管显示着遥控器发送指令识别及调谐器讯号锁住与否。制造厂商在前面板右边的仓门里加上了两 CI 插槽，八个按钮可以在没有遥控器的情况下操控接收机。引人注目的是面板上具有 AF-4000 HDCI 特色的蓝色可调光发光二极管竖条。

将接收机转到背面，你会发现各种接口齐备。标准的一进一出卫星信号输入输出接口、HDMI、两个欧式插槽、3 个立体声音视频 RCA 插座、3 个 YPbPr RCA 插座、一个光纤数码音频输出接口和用于更新接收机操作软件的 RS-232 接口。自动控制的 AF-4000 HDCI 由于有了特别的静音风扇，就没有在外壳上面设置透气孔槽。还有一个机械式的电源开关来切断这款美仑美奂机器的全部供电。

遥控拿在手上时感觉它大



接收 19.2 °E 上 ASTRA 的高清电视 |

得惊人。当然，当领会到它富于人体工学的设计和按键排列那你就舍不得它了。

还有，遥控器可以用于现有的电视机，录象机或 DVD 播放机的操控，而操作手册列出很多不同制造厂商预置代码，或许以后我们用这款 ARION 遥控器还能遥控我们编辑办公室的 LCD 电视呢。

说到操作手册，借助于它那全面而又通俗易懂的介绍，即使是初学者也能了解这款高清电视卫星接收机的指令操作。

### 日常使用

当我们第一次打开它的时候，可以看出我们测试的机器显然是为德语区市场设计的，因为它预先设置了德国、奥地利或瑞士使用的频道目录，但是 Arion 也预置了其他市场的频道目录。

所有在欧洲能收到的免费和加密的高清电视频道被存在一个单独的喜爱频道表里。

如果你不喜欢这种默认设置，那你只需打开方面易用的主菜单来按照你自己的爱好

设置接收机。你总共可以为 OSD 选择 23 种语言 (英语、法语、德语、意大利语、西班牙语、葡萄牙语、俄语、荷兰语、丹麦语、瑞典语、芬兰语、波兰语、斯拉夫语、匈牙利语、捷克语、斯洛文尼亚语、罗马尼亚语、希腊语、土耳其语和波斯语)。

如果你不愿用 HDMI 连线连接你的电视机，你也可以手动选择输出信号形态 (RGB 或 CVBS)，还有屏幕的宽高比例和彩色制式系统。

当选择 PAL 或 NTSC 信号



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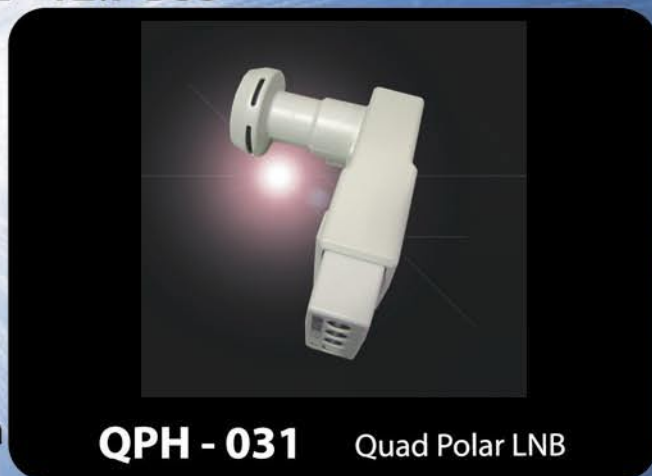
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率或增加新的频率。自动搜寻频道完毕后,就将接收机转发器目录和频道目录填满了。我们测试该机搜索了一个有 80 个转发器的卫星,它用了十分钟多一点的时间完成了频道搜索。

星接收机一样, AF-4000 HDCI 可以通过 HDMI 传输 576p、720p 或 1080i 的电视。可以通过遥控器上一个我们觉得非常便利的专门按键来选择这三种状态。而我们就可以流畅地的欣赏 1080i 的高清电视和 720p 的标清电视频道。

除了标准的搜索模式,你还可以启动网络模式或手动搜索,还可以用相关的 PID 值来进行搜索。唯一不足的是搜索存频道时存储器容量有所不足,只能储存不超过 4000 个电视和广播频道。所以我们认为当使用 CI 和极轴天线时是远远不够的。Arion

观看电视节目时通过转换频道来跳过广告节目也很快捷,因为这款 Arion 卫星接收机在两个频道之间的切换时间还不到一秒种。只有当切换到新的高清电视信号时候时间才稍微长一点。

时而电视机又不能接收该制式时,接收机就会发出显示预警告,告知有不能正常显示图像的危险。多亏有了这个增设的信息提示,否则我们就会接到无数持续的呼叫电话来解决屏幕一片空白的问题,不论是故意的还是不懂。

电视卫星接收机兼容所有的 DiSEqC 协议,即1.0、1.1、1.2 和 1.3(USALS),这意味着它完全胜任电动极轴天线或拥有 16 个 LNB 的多馈源天线。

卫星目录包含了欧洲和亚洲的 76 个 C、Ku 波段卫星,每个数据都是最新的。

它提供杜比数字或PCM数字



音频讯号,可以为每一种家庭影音系统提供适当的信号。和其他当前流行的数字接收机一样, AF-4000 HDCI可以通过卫星传输信号使其内部时钟同步。除此之外,它还能在夏令时开始和结束时自动地进行转换。

如果不够的话,还可以用手动增加另外五个卫星。

由于有多种预置和手动可选 LOF 值,事实上 AF-4000HDCI 可以匹配任何 LNB。如果你想要的话,即使是 S 波段天线也是可能的。可以用按键对卫星转发器目录逐一进行编辑,也就是说可以很快就可以删除无效的频

应该明确地解决这个问题。现在从目录中第一个频道中按“退出”键退出,一次初始设置和频道搜索就完成了。AF-4000 HDCI 会在屏幕插入一个非常好的信息条,上面除了当前及下一个事件的信息之外,还有图标来表示图文电视、字幕、杜比数字音频、频道选项和图像宽高比例。

我们用 HDMI 连接韩国三星公司的 40吋 LCD 电视来测试该接收机,其图像质量给我们留下了深刻的印象,即使是标清电视其图像质量也有明显提升,而使用欧插的图像质量也不错。遗憾的是目前欧洲免费的高清电视频道数目还很有限,所以很重要的一点是接收机要配置所有标准的

当接收机按照你的个人喜好完成所有基本设定后,就需要输入一些接收信息。如果你住在欧洲,常用的有19.2° E的ASTRA 卫星, Arion接收机早已为你预先设置好了。

如果你的设备有些不同的,你只需进入天线安装菜单然后改变设定。

真得感谢厂商,这款高清



信息条 |



条理清楚的主菜单 |





CI 模块。开始时,我们先是遇到了一些预装软件的问题,在我们测试期间,Satforce 公司又提供给我们一个改良的版本,它解决了我们发现的所有的问題。而后,我们就用这款 AF-4000 HDCI 和各种标准的 Irdeto,Viaccess、Cryptoworks 和 Conax 模块成功地接收和测试了欧洲各种不同运营商提供的高清电视节目。

一个低门限的高频头就像一个可靠的 CI 一样有价值,这样可以接收到 28.2 ° E ASTRA 卫星上微弱的英国广播公司信号。Arion AF-4000 HDCI 出色地完成了这个任务。当我们在维也纳测试的位置接收到了 NILESAT 7 ° W 微弱的水平极化转发器的时候,我们在慕尼黑的测试中心高兴地报告说也成功地接收到了 28.2 ° E 的 ASTRA 卫星。

低符码率也无法难倒 Arion 接收机,在我们的测试里从来没有见过像 Arion 出版的技术规格表(DVB : 1~45 Ms/s and DVB-S2: 10~

30 Ms/s)。只有当符码率为 1.6 Ms/s 或更高点才能锁住信号。然而,许多制造厂商的大多数竞争型号在它们的资料表里都写成 2~45 Ms/s。

顺便提一下, AF-4000 HDCI 支持 DVB 和 DVB-S2 接收的 QPSK 和 8PSK 调制类型。

一些附加的功能使我们增添了对这款接收机的良美印象。例如,你可以将频道目录和所有的设定载入内存。如果你碰巧弄乱了频道目录或者删除了喜爱的频道,你还可以从内存里重新加载现有的配置或取消任何已经引起损害的命令。

通过 RS-232 批评接口,可以从个人计算机的介面软件进行软件更新,也可以直接通过卫星来进行。我们没有再做更多。如果你家的电视机没有图文电视功能,那就用 AF-4000 HDCI 内部的解码器吧。除此之外,你还可以设置备忘录和日历。

Arion 以其 AF -4000HDCI 取得了极大成功!

### 专家的看法



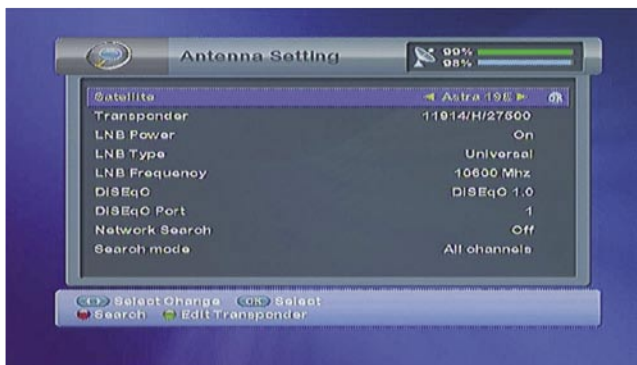
+

设计优雅而又取悦眼圈,广泛范围功能,硬件技术复杂,用户界面智能化。拥有一台这款结合所有优点接收机,会让任何新手欣喜并快乐无穷。

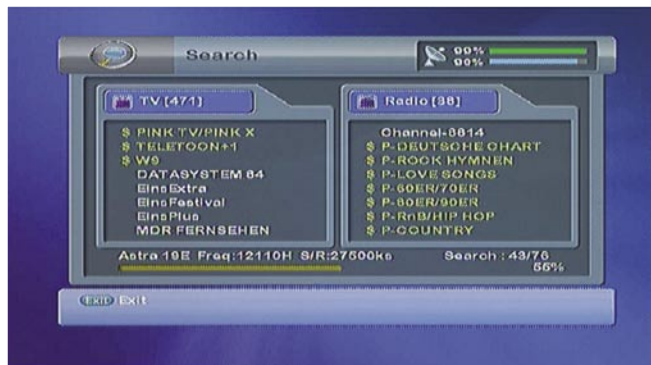
-

存储器容量只有 4000 个频道,应该增大

TECHNIC DATA	
Manufacturer	Arion Technology Inc, Arion Building, 1042-1 Hogye-Dong, Dongan-Gu, Anyang-City, Gyeonggi-Do, Korea 431-080
Homepage	www.arion.co.kr
Tel	+82-31-361-3000
Fax	+82-31-361-3099
E-Mail	info@arion.co.kr
Model	AF-4000HDCI
Function	Digital HDTV satellite receiver with CI slot
Channel memory	4000
Satellites	81
Symbolrates	1~45 Ms/sec. (1.6 Ms/s and above in our tests) for DVB and 10~30 Ms/sec in DVB-S2
SCPC compatible	yes
USALS	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
Scart euroconnectors	2
Audio/Video outputs	6 x RCA
YUV	yes
HDMI	yes
Modulator output	no
0/12 Volt connection	no
Digital audio output	yes
EPG	yes
C/Ku-Band compatible	yes
Power supply	AC 100-240 V, 50/60 Hz
Power consumption	35W max.



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频道搜索 |

# Your world of digital Television & Broadcast



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# PRICELIST

www.dvbshop.net

Technotrend TV-TUNER CARDS for PC (PCI and USB)	Reception Type	Price
Technotrend Budget C-1500 incl. CI (Common Interface)	DVB-C	82.90 €
Technotrend Budget C-1500 incl. Remotecontrol	DVB-C	64.49 €
Technotrend Budget C-1500HD High-Definition (MPEG2/4)	DVB-C/HDTV	85.90 €
Technotrend Budget C-1500HD High-Definition incl. CI Interface	DVB-C/HDTV	99.99 €
Technotrend Connect USB C1200 (DVB-C USB 1.1)	DVB-C	69.90 €
Technotrend Premium C-2300 Hybrid HardwareMPEG2	DVB-C	94.90 €
Technotrend Budget S-1401 Silicon Tuner	DVB-S	43.90 €
Technotrend Budget S-1500 incl. CI (Common Interface)	DVB-S	84.90 €
Technotrend Budget S-1500 incl. Remotecontrol	DVB-S	63.90 €
Technotrend Budget T-1500 incl. Remotecontrol	DVB-S	59.49 €
Technotrend Connect USB S2400 (USB 2.0)	DVB-S	59.00 €
Technotrend Premium S-2300 "modded" HardwareMPEG2	DVB-S	158.00 €
Technotrend S2-3200 HDTV-S2 + Remote + Common Interface	DVB-S/DVB-S2 (HDTV)	125.90 €
Technotrend S2-3200 HDTV-S2 incl. Remote	DVB-S/DVB-S2 (HDTV)	103.50 €
Technotrend S2-3600 HDTV-S2 USB 2.0	DVB-S/DVB-S2 (HDTV)	117.99 €
Technotrend S2-3650 HDTV-S2 USB+CI (Common Interface)	DVB-S/DVB-S2 (HDTV)	164.99 €
Technotrend TT TV-Stick USB 2.0 incl. antenna and active 5V output	DVB-T	39.90 €
Technotrend Budget T-3000 Hybrid Digital and Analog	DVB-T	49.90 €
Technotrend Premium T1200 (HardwareMPEG2 Decoder)	DVB-T	149.00 €
Technotrend Budget PCI CI (for Budget/Nova Serie), V 1.1	SAT/CABLE/TERR.	25.00 €
Technotrend Premium 3.5" CI incl. Remotecontrol	SAT/CABLE/TERR.	79.90 €

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Technotrend TT-Micro S320 HDMI UpScale HDTV BLACK	DVB-S	84.90 €
Technotrend TT-Micro S320 HDMI UpScale HDTV SILVER	DVB-S	84.90 €
Technotrend Scart TV S100 FreeTV Mini-Receiver SCART	DVB-S	79.90 €
Technotrend Scart TV S102 (DVB-S)	DVB-S	119.90 €
Technotrend Scart TV S102 (DVB-S) incl. Premiere Flex € 25	DVB-S	137.99 €
Technotrend Scart TV S106 (DVB-S)	DVB-S	129.00 €
Technotrend TT-micro S202 Premiere	DVB-S	63.90 €
Technotrend TT-Micro S305 HDMI Nagra+CI	DVB-S	109.90 €
Technotrend TT-Micro S326 Cryptoworks (ORF) Upscale	DVB-S	149.00 €
Technotrend TT-micro C201 (Conax embedded)	DVB-C	89.90 €
Technotrend TT-micro C202 Premiere	DVB-C	63.90 €
Technotrend TT-micro C254 (Arena/Tividi)	DVB-C	82.50 €
Technotrend TT-Micro C2800-C (Conax embedded)	DVB-C	59.90 €
Technotrend Scart TV C102 (DVB-C)	DVB-C	109.00 €
Technotrend Scart TV C102 (DVB-C) incl. Premiere Flex € 25	DVB-C	119.90 €
Technotrend Scart TV T100 FreeTV Minireceiver Scart	DVB-T	89.00 €

All prices incl. 19% tax plus shipping cost  
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with VAT number or private customers  
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Satelco TV-TUNER CARDS for PC (PCI and USB)	Reception Type	Price
Satelco EasyWatch HDTV S2-PCI "Basic Edition"	DVB-S/DVB-S2 (HDTV)	119.00 €
Satelco EasyWatch HDTV S2-PCI H264/AVC/MPEG4	DVB-S/DVB-S2 (HDTV)	139.90 €
Satelco EasyWatch HDTV USB CI (DVB-S2)	DVB-S/DVB-S2 (HDTV)	189.00 €
Satelco EasyWatch PCI DVB-C "Basic Edition"	DVB-C	64.90 €
Satelco EasyWatch PCI DVB-C	DVB-C	79.90 €
Satelco EasyWatch HDTV PCI (DVB-C)	DVB-C	99.90 €
Satelco EasyWatch PCI DVB-C HDTV "Basic Edition"	DVB-C	74.90 €
Satelco EasyWatch PCI DVB-S "Basic Edition"	DVB-S	49.90 €
Satelco EasyWatch PCI DVB-S	DVB-S	69.90 €
Satelco EasyWatch PCI DVB-S Light	DVB-S	49.90 €
Satelco EasyWatch PCI DVB-S Light "Basic Edition"	DVB-S	43.90 €
Satelco EasyWatch PCI DVB-T "Basic Edition"	DVB-T	54.90 €
Satelco EasyWatch PCI DVB-T	DVB-T	69.90 €
Satelco EasyWatch CI Interface (PCI or 3.5" frontbay version)	SAT/CABLE/TERR.	39.90 €
Satelco EasyWatch MobilAntenna active	DVB-T	29.90 €

CAM MODULES	Price
Alphacrypt Light	47.90 €
Alphacrypt Multicrypt	94.90 €
Alphacrypt TC Light	64.90 €
AlphaCrypt TC Multicrypt Dual	119.90 €
Conax CAM (Rev. 1.1) - 4.00e	45.90 €
Conax MPEG4 NP4 Neotion Processor HDTV	49.90 €
Cryptoworks Mascom (Arena,ORF,DigiT,Xtra,easyTV)	43.99 €
Diablo CAM Light	76.90 €
Dual CAM Irdeto plus Conax	45.90 €
Euro-Irdeto CAM	45.90 €
Full-X TV CAM	39.90 €
Matrix Reborn CAM	32.90 €
T-Rex CAM 4.1 Firecrypt	79.90 €
T-Rex Supermodul 4.6	105.00 €
Viaccess I/II CAM (V484)	42.99 €
Viaccess NP4 MPEG2+MPEG4 (HDTV) * Pocket * CAM	49.90 €
X-CAM Platinum CAM	37.99 €
Zeta CAM gelb (FreeX/FullX)	39.90 €

SCM Microsystems St@rkey USB 1.1 Satellite PC-receiver	Reception Type	Price
SCM Starkey DVB-S USB 1.1 incl. ProgDVB CD	DVB-S	19.99 €



# NanoXX 9400

## 一款非凡的盲扫接收机

名为 NanoXX 9400 的这款可爱的银色卫星接收机外形紧凑。虽然个头不大,但在后面板上包含了所有重要的插座和接口,包括两个欧洲插座。这款接收机的前

面具有所有标准的控制按键和两个读取方便的 CI 插口(具有 Conax 和 X-Crypt 授权)。

当我们开始测试的时候感觉我们好象被欺骗了,因为我们打开包装开启接收机的时候没办法退出安装菜单。然而,这只是因为一个很简单的理由: NanoXX 9400 没有预置频道,所以你首先要选择一个卫星并开始搜索转发器。此后,所有你所期待的及一个频道就会出现在屏幕上。

再按下此键一次,将会卷轴式地显示出节目的详细信息,并一直停留在屏幕上直到它结束。第三次按下“信息”键,便会显示诸如目前转发器和数据流等深度技术数据,。

频道搜索很快也很容易操作,对于预置了频道的接收机我们推荐使用自动搜索,每个卫星只需大约两分钟。要进行更深入的搜索,你可以选择某一转发器并手动搜索,NanoXX 允许在开始搜索之前编辑或改变转发器参数。

电子节目向导(EPG)内容很全面。共显示四个频道提前一星期的所有节目,包括详细的节目信息。我们高兴的是在屏幕上出现的所有数据没有明显的延迟!箭头按钮可以用来访问相应的 EPG 数据,按下按钮就可以为节目设置定时提醒,和模拟时代比较这是多么大的变化呀!就好象火箭发射的倒计时一样。

这款机器与其它机型最大的差别在于其超强的盲扫功能。该功能可以自动地寻找全部需要的频道数据。它甚至可以按照从 1 到 5MHz 之间步长范围定义搜索频率,当然也可以选择一个更大的步长范围进行全部盲扫。一般来说,这款接收机只以很小的步长进行搜索,在搜索 Hotbird 卫星的盲扫过程中即使用了 4 MHz 的步长,而只花了大约十分钟时间。

实际上,它要超出你的预期许多,在屏幕上图像可以变换焦距,还可以显示六个不同的频道。信息条不仅显示频道的名称,还显示现在的时间、日期、当前及下一个节目、信号质量和其他有用的数据,诸如加密方式(如果有的话)和图文电视文件、节目信息和 EPG。经过五秒之后—或者是你选择的时间长度—信息条就会消失,如再一次按下“信息”键它会再显示出来。若

要看图文电视文件可以很有趣地阅读所有页面并储存下来,只需按下“图文电视”按钮,阅读就可以开始了。而对于预览的页面每次只显示一页,这并不是 NanoXX 的缺点,而是由于电视台每次只传输一页图文电视文件。

NanoXX 的门限比较低,低于平均的门限水平。在欧洲即使在较差的天气里用一个 60 cm 的天线也能实现良好的信号接收。较低



数据流信息(新编号方式) |



用 U 盘来升级



安装菜单 |



天线设定 |





Satellite Dish & Cable TV Products



# INFOSAT

Window to The World TV



TV Signal Level Meter



INFOSAT DSR-9500



INFOSAT i-Move 2006



INFOSAT LNB F-6011



INFOSAT M860



INFOSAT MNT-750EII



Sat Transmitter 24 mW

## INFOSAT Satellite Dish Antenna

- 5.0', 5.5', 6', 7', 7.5' and 10' Fixed & Move
- Aluminum Mesh Dish Antenna
- C/KU Band Reception
- High Accuracy Parabolic Curvature Design

## INFOSAT Digital CKU LNB

- Model. CKU 0001
- Lo: C : 5150 MHz ,
  - KU: 9.75 – 10.6 GHz
  - Switching: DiSEqC 2x1



## INFOSAT Signal Level Meter

LM870N, LM870W and LM870 TVR are specially designed and manufactured for CATV system installation and testing. They are a portable instrument, easy to carry with many functions.

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Croatian	Hrvatski	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/hrv/nanoxx.pdf">www.TELE-satellite.com/TELE-satellite-0801/hrv/nanoxx.pdf</a>
Italian	Italiano	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/ita/nanoxx.pdf">www.TELE-satellite.com/TELE-satellite-0801/ita/nanoxx.pdf</a>
Hungarian	Magyar	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/mag/nanoxx.pdf">www.TELE-satellite.com/TELE-satellite-0801/mag/nanoxx.pdf</a>
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Dutch	Nederlands	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/ned/nanoxx.pdf">www.TELE-satellite.com/TELE-satellite-0801/ned/nanoxx.pdf</a>
Polish	Polski	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/pol/nanoxx.pdf">www.TELE-satellite.com/TELE-satellite-0801/pol/nanoxx.pdf</a>
Russian	Русский	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/rus/nanoxx.pdf">www.TELE-satellite.com/TELE-satellite-0801/rus/nanoxx.pdf</a>
Turkish	Türkçe	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/tur/nanoxx.pdf">www.TELE-satellite.com/TELE-satellite-0801/tur/nanoxx.pdf</a>

的门限意味着可以发现更多的信号。遗憾的是,盲扫模式不能识别卫星 ID,造成附近卫星上的频道被储存了两次。

频道目录里产生一些加密频道,所以必须在盲扫之后再手动编辑频道目录。同样,数据频道有时候会出现在广播电台目录里。

由于搜索免费频道时会在 可以通过综合的编辑来移

### 专家的评价



Heinz Koppitz  
TELE-satellite  
Test Center  
Germany

**+**  
接收机具有不可多得的特色: 超乎寻常的技术  
大容量的频道存储能力和较快的速度  
高效的盲扫模式  
全面的 DiSEqC 功能  
通过 U 盘快速升级

**-**  
搜索和分类的功能需要改进  
极轴控制速度稍慢

### TECHNIC DATA

Supplier	NanoXX <a href="http://www.nanoxx.info">www.nanoxx.info</a>
Model	NanoXX 9400
Power Supply	90 ... 250 V AC
Power Consumption	8/13 Watt (Stand-By/Off)
Size	300 x 230 x 63 mm
Weight	1620 g
DiSEqC	1.0, 1.1, 1.2 (with GotoX), USALS
Satellites	max. 100
RF-Modulator	No
Program Listings	TV, Radio, Favorites
Teletext	800 Page Memory
EPG	Four Channel Display, whole week with program details
Timer	EPG-programmable
Front View	Stand-By, 4 Digit Display, Menu, OK, 4 Arrows
Rear View	IF In, IF Out, RS-232, USB, 3xRCA (Audio L/R, Video), 2xSCART, Main Switch, Power Supply Jack
Upgrades	Via USB Stick

动或删除频道,当然这是一个无聊的工作。用个人计算机从[www.nanoxx.info](http://www.nanoxx.info)下载信息则可以做得更好。

其频道记忆能力极强,它具有可以存储 8000 个电视频道、广播电台和 2800 个转发器的能力。电视和广播电台的目录是分开的,有九个喜爱节目目录(电视和广播电台),可以完全按照自己的需要来订制。

接收机也支持多馈源天线或极轴天线,功能涵盖包括 DiSEqC 1.1 在内的所有 DiSEqC 1 协议,这样机器可以在 16 个不同天线信号之间切换。极轴天线可以使用 DiSEqC 1.2 协议或 Goto X,或使用 USALS 进行全自动控制。每个预存的卫星被分在不同的地址,而频道则在分开的目录中显示。

我们发现了该机具有一种便捷的、处于领先地位的创新,这在我们的办公室中引起了相当的轰动: 通过 USB 来更新操作系统,这是到现在为止我们见到的最快和最有效率的更新。接收机的特色是可以插入 U 盘的 USB 接口。只需用个人计算机从 NanoXX 网站下载升级文件并保存在 U 盘上,再将其插在接收机上的 USB 接口,通过菜单上的一个简单指令就可以进行升级安装。U 盘上的最新操作软件就可以完全更新频道目录。

还有什么呢, 通过照片显示功能, 虽然有文件大小在 1 MB 以内的限制,它可以在电视屏幕上显示 JPG 图象。



重新命名一个喜爱节目目录 |



USALS 菜单 |



BBC 2 的 EPG(电视) |



Czech 的天气预报 |



按字母顺序排列的频道目录 |



# VSAT ANTENNA TVRO SYSTEM

Intelsat /GVF Type Approved

- Reliable Communications
- Rapid Communications
- Remote Communications



**AZURE SHINE INTERNATIONAL INC.**

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



## 什么是盲扫?

每个卫星广播都传输多个频道。因为每路传输除了一些电视频道还有广播电台，这被称为一个转发器。为区别各个电视频道和广播电台，卫星接收机需要知道转发器的频率和极化方式(水平/垂直)，也就是转发器传输频道的数据信息。这是接收机从数据流中挑选所需信息的唯一方法。

接收机只需要频率、极化和符码率来识别转发器并发现所有转发器传输的频

道。然而，这三个数值需要先预存在接收机里，也就是为什么接收机要存有转发器数据。不幸的是，这些目录很快就会过时，因为电视频道和广播电台有时会改变频率，而且符码率也会变。如果接收机再也不能找到频道，就必须在互联网上搜索新的数据再用手输入接收机。

从互联网寻找转发器目录可以很好地帮助接收机 - 我们内容广泛的 SatcoDX 目录就是这样一个辅助工具的最好例

子。借助编辑软件可以在个人计算机上方便地处理频道，但是必须仍然用手做。

盲扫接收机不需要输入任何数据。它们能够自动地识别所有工作着的转发器、频率波段和所有的其他的参数，并将最新转发器和频道参数存储起来。这使盲扫成为设定新卫星接收系统最好的搜索方法。此外，盲扫可以保持频道更新为最新状态。



# TechnoTrend Scart TV S100

## 小的,更小的, TechnoTrend Scart TV!

这是怎样的感觉啊：第一款看不见的卫星接收机已经面世了！怎么能看不见它呢？因为 TechnoTrend Scart TV100 可以用欧插插在电视机的背面而完全离开了客厅的视野。即使这么小(55×100×22毫米)，它还是具备了我们对于现代数字卫星接收机期待所拥有的全部功能。

接收机有两种型号，一款是免费卫星接收机，而另一款则整合了读卡器，可兼容接收德国付费电视的 Nagravision 加密系统和奥地利 ORF 广播公司的 Crypto-works 加密系统。除此之外，内建读卡器的版本还带有光纤音频输出，在免费机版本中则没有。我们测试的是一款免费型号。

第一次看到接收机的时候，真的难以相信 TechnoTrend 在如此小的盒子里能够集成所有的硬件。金色的欧插醒目地位于一侧，另一侧为红外接收头和电源插座，当卫星的时候如果输入位于边之上那接收机。内建读卡器的版本还带有光纤音频输出接口。

随机还带有一个平板的遥控器，握在你的手里可以舒适地操控接收机。

用英文和德文印刷的使用手册详细地说明所有安装步骤，并附有许多图例。

我们已经使用过 TechnoTrend 提供的许多良

好产品，相信这款迷你接收机也不例外。

### 日常使用

在第一次打开 TechnoTrend Scart TV之前，应该找一个适当的位置安放红外接收头，以便使接收机能够接收到遥控器的控制指令。红外接收头也装有两个 LED 发光管来显示 Scart TV S100 的操作状态并确定是否接收到了遥控器的指令。而后，你要做的就是将其插入电视机的欧插插座，连接好天线馈线，并开机。如果房间限制了接收机与电视的连接，那你最好使用延长的馈线或再找一个地点连接。

第一次打开接收机后电视机将会显示安装向导并询问选择哪种屏幕菜单语言。除了德语、英语和法语，你还能选择意大利语、西班牙语、葡萄牙语、瑞典语、芬兰语、丹麦语、土耳其语、波兰语、捷克语、俄语和希腊语。

接下来，在接收机设定 LNB 菜单之前必须确定设置好本地位置（对于设定正确的时





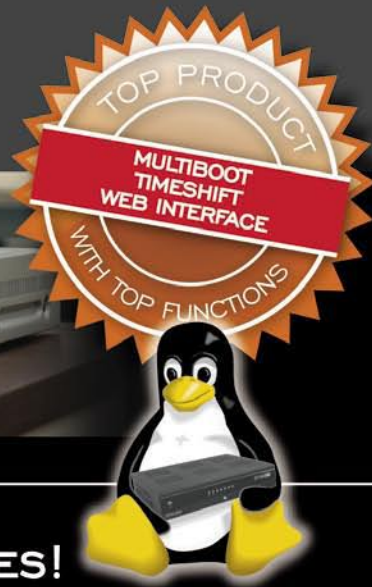
# HAVE A FUN WITH A WINNER!

## AB IPBox 250S PVR

SATELLITE PVR RECEIVER WITH LINUX OPERATING SYSTEM



**RECORD & PLAY**



TEST WINNER IN PRESTIGE WORLD KNOWN MAGAZINES!

**SATELLITE AWARD** INTERNATIONAL  
06-07/2007

**AB IP BOX 250S PVR**  
Best Linux-based Satellite Receiver, ensuring the rich variety of available firmware, plugins and service software

**DIGITAL fernsehen**

7.2007  
**gut**

AB-COM IP BOX 250S PVR  
www.digitalfernsehen.de

**ab-com IP Box 250S PVR**

+ netzwerkfähig  
- kein Common Interface

**Note**

Bild	25 %	1,7
Ton	15 %	1,7
Ausstattung	20 %	1,9
Verarbeitung	10 %	1,5
Bediienung	30 %	1,7

**HiFi Test**  
Oberklasse  
Preis/Leistung: gut  
**18**

**STEREO vyzníkající VERDIKT**

IP Box 250 je levnou, přitom výkonnou konkurencí jednak ve vlastních řadách (díky vestavěnému disku konkuruje vlastně IP Boxu 400), zadruhé zarytým rivalům i tajným kamarádům Dreambox řady7xxx. Linuxové PVR za polovinu ceny oproti prémiovým přístrojům – to už je pádný důvod k nákupu. Estéti mohou vybírat mezi stříbrnou a černou variantou.

- operating system Linux
- IBM Power PC 405, 64 MB SDRAM
- possibility of 2,5" or 3,5" HDD
- connection with PC via Ethernet 100
- upgrade software via internet

## TRAVELING IN TIME?

With the **Timeshift** function that is provided only by Linux-based receivers AB IP-Box250S PVR you are able to pause, play reverse or see again any watched TV show. Thanks to this function you can even record already finished programs, till 120 minutes backwards. Timeshift function is perfect for skipping adverts, just activate the function in the beginning of the program and wait some minutes for starting watching. Then you can simply skip adverts and continue watching the program.

The favorable programs can be burnt on DVD disc from built-in 2,5" or 3,5" HDD of unlimited capacity.



## CONTROL YOUR AB IPBOX 250S PVR ANYTIME AND ANYWHERE!

The **Web Interface** function allows you to completely control your receiver through web - setting up the receiver, editing of settings, downloading of plugins, boot pictures and desktops in RADIO mode.



## CHOOSE YOUR OWN OPERATING SYSTEM!

The same way you can configure your own personal computer you can adjust your Linux **AB IPBox** satellite receiver. Thanks to the **Multiboot** function just choose one of the operating system - image (for example Enigma) and utilize its advantages or simply select the other one. It is easy to set up the default image.



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955 01 Topoľčany, Slovakia  
e-mail: info@abcom.sk

tel.: +421 - 38 5362 611  
fax: +421 - 38 5322 027

**ab-com**  
www.abipbox.com



Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0801/ara/technotrend.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0801/bid/technotrend.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0801/bul/technotrend.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0801/deu/technotrend.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0801/eng/technotrend.pdf
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French	Français	www.TELE-satellite.com/TELE-satellite-0801/fra/technotrend.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0801/hel/technotrend.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0801/hrv/technotrend.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0801/ita/technotrend.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0801/mag/technotrend.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0801/man/technotrend.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0801/ned/technotrend.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0801/pol/technotrend.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0801/rus/technotrend.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0801/tur/technotrend.pdf

线很重要)、电视屏幕的宽高比 (4:3 或 16:9)、连接电视的输出类型 (RGB, CVBS 或 S 端子)。

遗憾的是接收机只支持 DiSEqC 1.0 或脉冲控制, 所以如果你拥有一套极轴天线需要使用 DiSEqC 1.2 或 1.3 (USALS) 协议, 或者是一套超过四个 LNB 的多馈源天

线系统, 那你就没有运气来使用这款可爱的接收机。

预存的卫星目录包扩欧洲最重要的直播卫星 (排在第 17 位)。鉴于它不支持 DiSEqC 1.1、1.2 和 1.3 个, 这么多的卫星已足够了。

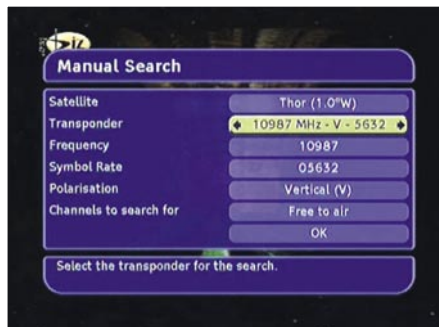
它为各个卫星分别编辑了本振频率, 即使不是每个人都会



TURKSAT 42 ° E 的 SCPC 接收 |



主菜单 |



手动频道搜索 |

使用这个功能, 因为卫星目录不能扩大。

它也可以接收 C 波段信号, 而且有些转发器数据 (例如 1 ° W 的 THOR 卫星) 已有部分预存了。安装的最后一步是自动搜索频道, 可以设置完全搜索或按照某一卫星的免费节目或加密节目进行搜索。

当所有起始设定完成后, 接收机即切换到目录里的第一个频道上, 内容丰富、阅读方便的信息条就会显示出当前及下一个节目的信息。按下“EPG” 按键, 将会显示出便捷的 EPG, 按下定时器按键, 还可以为某一特定节目设置定时提醒。

若要访问全部频道目录, 可以按“OK” 按键。可是, 频道没有按字母顺序或依照节目供应商分类 - 这只能在主菜单操作。而在菜单的明亮处有一个子菜单, 它能方便地按照用户意愿订制全部频道目录。

为了要使这个程序更易于操作, Scart TV S100 具有一个非常智能化的功能来过滤频道目录。提供了按照诸如免费/加密, 或者节目供应商及所属卫星的分类, 以便使你将要看的频道编辑或者移动到喜爱频道目录里。有一个综合目录真是太棒了!

主菜单里可以进行另外一

些初始安装没有包括的设定。例如是选择使用接收机内的图文电视文件解码器还是选择电视内的解码器, 还有就是选择屏幕视控系统 OSD 的颜色。

由于有了 AFD, 该机还可以自动识别并根据你的电视机屏幕选择正确的宽高比。

可以通过手动的办法轻松添加新频道, 但是遗憾的是没有卫星爱好者们喜欢的手动添加 PID 功能。它可以存储 4000 个频道, 对于免费接收机这足够了。

另外一个方便的功能值得称道: 它为那些儿童不宜的频道加上了 PIN 锁。除此之外, 接收机的主菜单也可以用 PIN 锁住。

Scart TV S100 的频道切换速度也很快, 大约为一秒。对于搜索一个有 80 个转发器卫星的所有频道也大约平均用十分钟多一点。

其高频头门限较低, 这样它可以发现和接收信号较弱的卫星, 例如在 26 ° E 上的 ARABSAT、7 ° W 上的 NILESAT 或 75 ° E 的 LMI1 卫星。

虽然这款机器没有在设计上吸收卫星爱好者的想法, 但是它仍在我们的测试中表现出色, 它流畅地接收到并锁住了符码率为 2 MS/s 的转发器信号。再也没有收到符码率比这低的信号。

由于有了通过卫星进行软件升级的功能使人们对于 Scart TV S100 的印象更加好上加好,这将会使接收机的软件保持最新并适应将来的需要。

### 专家的评价

+

TechnoTrend Scart TV S100 是款迷你型数字接收机,它和体积大的接收机一样工作得好。制造厂商已经证明机器的大小与其功能的多少没有太多关系。接收机使用很便捷,相信会受到各个年龄层家庭成员的欢迎



Thomas Haring  
TELE-satellite  
Test Center  
Austria

-

遗憾的是TechnoTrend Scart TV S100 不支持 DiSEqC 1.1、1.2 和 1.3(USALS) 协议。如果有更多的节目目录和用手增加卫星的可能性,我们会更喜欢它。

### TECHNIC DATA

Distributor	DVB-Shop, Germany
Tel	+49-34954/31960
Fax	+49-34954/49233
Website	www.dvbshop.net
E-Mail	webmaster@dvbshop.net
Model	TechnoTrend Scart TV S100
Function	Digital satellite receiver at miniature size
Symbolrates	2-45 Ms/sec.
SCPC compatible	yes (2 Ms/s and higher in our test)
USALS	no
DiSEqC	1.0
EPG	yes
C/Ku-Band compatible	yes
Software Update via Satellite	yes
Audio out	yes (for models S102 and S106)
Power supply	230V AC/50 Hz
Power consumption	<20W
Power consumption in standby	<6W



信息条 I



EPG I

# Digital SAT-Analyzer & Positions-Finder SF 3010 D

NEW



**To calibrate & adjust  
your dishes**

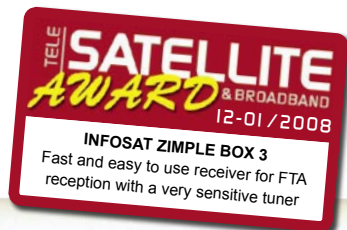
- easy to use
- exact and accurate
- DiSEqC 1.0
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# INFOSAT Zimple Box 3

## 一款使用简捷的盲扫接收机



首先给我们深刻印象的是当我们打开装有 Zimple BOX 3 接收机包裹时它那小巧的身材。做测试的银色机器面板右面印有一些泰国文字。我们还看到电源开关和另外两个不用遥控器也可以切换频道的按键。由三个数码管和七位发光管构成的显示装置标示着频道的信息，当遥控器上的“信息”键按下时，它会表示信号质量的百分数，右边的发光管也会显示信号强度，这很实用。

RS232 接口,它还是升级软件的唯一方法,可以安装更新设定。

按照人体工学设计的黑色遥控器使用起来很便捷。其红外线传输能力很强,即使没有直接对准接收机,甚至是对着另外一个方向它也能工作。

制式, OSD 菜单颜色和透通性,而且还可以根据需要设置定时关机。

在 Zimple BOX 的信息界面里可以看到软件信息、转发器频率和信号强度。卫星向导菜单是一个很有用的工具,用来将天线对准某一特定卫星。输入你的经度、纬度和卫星经度的信息,它将会给你提



在后面板上,我们会发现通常都有的 LNB 输入接口,但是没有输出接口。三个 RCA 插座显示它具有视频和左右声道音频信号的输出,通过它们可以把接收机和电视机连结起来。另外一个视频输出可以与录像像连接。还有一个总的电源开关,当不用接收机的时候,可以减少耗电量。

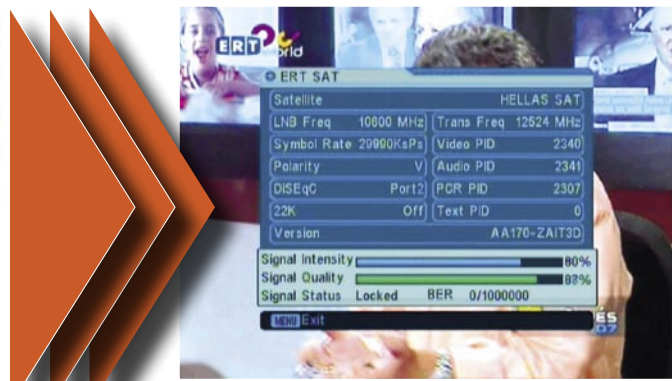
如增加卫星的数目和转发器,既简单又快的方法是更新接收机的数据库。可以用

### 启动

当我们第一次打开接收机的时候, Zimple BOX 3 已经设置好了频道。为检查出厂的设置,我们选择了默认设置,所有的菜单语言改为泰文。一些东亚的卫星广播节目已经预置好了。

Infosats 的 Zimple BOX 3 支持泰文、中文和英文菜单语言。通过系统菜单,你可以设置语言、PAL/NTSC

供方位角和天线安装仰角。在工具菜单中,你也会找常用的缺省设置、游戏、软件升级、日历和计算器。



信息菜单 |



九画面 |

## 安装和盲扫

它完全支持 Diseqc 1.0 和 1.2 协议,这意味着接收机可以接驳 4 个 LNB,或者连接并控制一个 Diseqc 1.2 天线电机。再加入新的卫星也很容易,只需输入卫星的名字,选择好 LNB,然后你就可以手动



增加转发器或使用盲扫功能来搜索转发器和频道。

接收机频道搜索的速度非常快。Zimple BOX 3 在盲扫状态下仅需 5 分 57 秒就发现了所有工作的转发器并且下载了频道。在自动搜索状态下,对于已经安装的 77 个转发器,Zimple BOX 只用了 1 分 22 秒的时间就完成了

进行快速盲扫:按下遥控器上“退出”键 5 秒以后,在确定“免费或加密”之后,菜单将会出现“盲扫?”的对话框,在按“OK”键后盲扫就立刻开始。这是相当一个便捷的功能!

接收机有一个门限较低的调谐器,当我们把它与另外的三个接收机作比较的时候,尽管信号强度不够好,Zimple BOX 仍然能够解调出清晰的图像,而此时其它的接收机连个条纹都没有收下来。Zimple BOX 能够马上锁住符号率较低的频率,这也证明了它的 SCPS 相容性。

## 日常使用

当我们用另外三个比较用的接收机与其一起收看 Hellasat 卫星上的 Skai 电视时,我们注意到 Zimple BOX 3 输出了非常亮丽的图像。频道之间的切换也很快,而且在相同的转发器里切换频道不到 1 秒。当在不同的转发器之间切换时它只需 1 秒多一点。



对所有免费和加密频道的搜索。

Zimple BOX 3 还有一个非常方便容易使用的功能来

按下遥控器上的“OK”按键,就显示出一个频道目录。使用上下键可以轻松地切换频道,使用左右键可以翻动

Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0801/ara/zimple.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0801/bid/zimple.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0801/bul/zimple.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0801/deu/zimple.pdf
English	English	www.TELE-satellite.com/TELE-satellite-0801/eng/zimple.pdf
Spanish	Español	www.TELE-satellite.com/TELE-satellite-0801/esp/zimple.pdf
French	Français	www.TELE-satellite.com/TELE-satellite-0801/fra/zimple.pdf
Greek	Ελληνικά	www.TELE-satellite.com/TELE-satellite-0801/hel/zimple.pdf
Croatian	Hrvatski	www.TELE-satellite.com/TELE-satellite-0801/hrv/zimple.pdf
Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0801/ita/zimple.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0801/mag/zimple.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0801/man/zimple.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0801/ned/zimple.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0801/pol/zimple.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0801/rus/zimple.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0801/tur/zimple.pdf

页面。按下“0”键,你的电视屏幕就会出现 9 个画面,显示着相同卫星里邻近的 9 个画面,包括之前播放的那个。用遥控器上的上下左右键

和“OK”键就可以轻松地在这个浏览界面进行选择。

编辑频道和其它接收机一样,所有有用的功能 Infosats 的 Zimple box 3 也都有。

## 专家的结论



+

- + Infosat 提供了一款使用快捷、门限较低、具有盲扫功能的免费卫星电视接收机。它支持 DiSEqC 1.2 协议,可以控制极轴电机或接驳 4 个 LNB。是一款日常使用的理想接收机。
- + 快速的频道切换
- + 总电源开关
- + SCPC

-

- 没有 EPG
- 再有一个 IF 输出会很有用

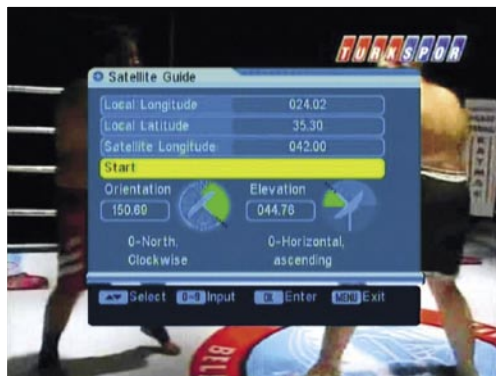
## TECHNIC

### DATA

Manufacturer	Infosats, 46(22 Moo.5, Tiwanon Road, Banmai, Pakkred, Nonthaburi, 11220 Thailand
Tel / Fax	Tel +662-961-9161-3 / Fax +662-961-9996-8
Email	niran@infosats.com
Web page	www.infosats.com
Model	Zimple Box 3
Function	MPEG2 FTA Receiver with Blind Scan
Symbolrates	2- 45 Ms/sec
Channel memory	1000
SCPC	Yes
Connectors	1 LNB input, 4 RCAs with 2 video outputs, RS232
DiSEqC	1.0, 1.2
EPG	No
Firmware upgrade	via RS232 interface



安装画面 |



卫星引导菜单 |



卫星搜索 |

# TELE-satellite Receiver Guide

	Channel Memory	Symbol Rate DVB-S DVB-S2	SCPC Compatible	DISEqC	USALS Compatible	NTSC/PAL	Modulator Output	Looped-Through IF	SatCoDX Compatible	Power Supply	HDMI	Digital Audio Output	Audio/Video Output	Scart Output	S-VHS Output	Volt 0/12 Output	Positioner	Mechanical Polarizer	Hard Disk (Built-in)	Serial Interface	CI Slots	Embedded CA	TSI Magazine
<b>AB IP Box 250S PVR</b>	10000	Up to 45 Ms/s	yes	1.0, 1.1, 1.2, 1.3	yes	PAL D/K, B/G, I	no	yes	no	AC220V/AC110V 50Hz/60Hz	no	yes (S/PDIF)	yes	yes, 2	no	no	no	no	yes	yes, RS-232	no	yes, Xcrypt or Firecrypt	#199 2007
<b>Arion AF-4000HDCI</b>	4000	1-45 10-30	yes	1.0, 1.1, 1.2, 1.3	yes	NTSC/PAL	no	yes	no	AC100-240V 50/60Hz	yes	yes	yes	yes, 2	no	no	no	no	no	yes, RS-232	yes, 2	no	#202 2008
<b>ARION AF-8000HDCI</b>	4000	1-45 10-30	yes	1.0, 1.1, 1.2, 1.3	yes	PAL D/K, B/G, I	no	yes	no	90-250V 50/60Hz 45W max	yes	yes (optical)	yes	yes, 2	no	no	no	no	no	yes, RS-232	yes, 2	no	#198 2007
<b>EYCOS S80.12 HD</b>	6000	2-45 10-31	yes	1.0, 1.2, 1.3	yes	NTSC/PAL	no	yes	no	95-250 VAC 50/60Hz	yes	yes (S/PDIF)	yes	yes, 2	no	no	no	no	no	yes, RS-232	yes, 2	no	#201 2007
<b>EYCOS S55.12 PVRH</b>	8000	2-45	yes	1.0, 1.1, 1.2, 1.3	yes	NTSC/PAL	yes, UHF	yes	no	100-240 VAC 50/60Hz	yes	yes (S/PDIF)	yes	yes, 2	yes	yes	no	no	yes	yes, RS-232	yes, 2	yes, Conax	#197 2007
<b>FORTEC STAR MERCURY II</b>	6000	2-45	yes	1.0, 1.1, 1.2, 1.3	yes	NTSC/PAL	yes, VHF	yes	no	100-120 VAC 60Hz	no	yes (S/PDIF)	yes	no	yes	no	no	no	no	yes, RS-232	no	no	#195 2006
<b>JIUZHOU DVS-2018BS Professional Decoder</b>	!	2-45	yes	no	no	NTSC/PAL	yes	yes	no	87-265 VAC 50/60Hz	no	yes	yes	no	no	no	no	no	no	yes, RS-232	yes, 2	no	#201 2007
<b>JIUZHOU DTS1601</b>	4800	2-45	yes	1.0, 1.2	yes	NTSC/PAL	yes, UHF	yes	no	90-240 VAC 50/60Hz	no	yes (S/PDIF)	no	yes, 2	yes	no	no	no	no	yes, RS-232	no	no	#200 2007
<b>MATRIX Planet</b>	3200	2-45	yes	1.0, 1.2	no	NTSC/PAL	yes RF	yes	no	90-240 VAC	no	no	yes	no	no	no	no	no	no	yes, RS-232	no	no	#196 2007
<b>NanoXX 9400</b>	8000	1-45	yes	1.0, 1.1, 1.2	yes	NTSC/PAL	no	yes	no	90-250V 50/60Hz	no	yes (optical)	yes	yes, 2	no	no	no	no	no	yes, RS-232	yes, 2	Conax, X-Crypt	#202 2008
<b>OPENSAT X7000CI</b>	6000	1-45	yes	1.0, 1.2	yes	NTSC/PAL	yes	yes	no	90-250V 50/60Hz	no	no	yes	yes, 2	no	yes	no	no	no	yes, RS-232	yes, 2	no	#200 2007
<b>TECHNISAT DigitSim S2</b>	4000	2-45	yes	1.0, 1.2, 1.3	yes	NTSC/PAL	no	no	no	180-250 VAC 50Hz	no	no	no	yes, 1	no	no	no	no	no	no	no	no	#201 2007
<b>TECHNISAT DigiPlus STR1</b>	5000	1-45	yes	1.0, 1.2	no	NTSC/PAL	no	no	no	180-250 VAC 50Hz	no	yes (optical & coax)	yes	yes, 2	no	no	no	no	no	no	no	no	#199 2007
<b>TECHNISAT Digit 4S</b>	5000	1-45	yes	1.0, 1.2, 1.3	yes	NTSC/PAL	no	no	no	180-250 VAC 50Hz	no	yes (optical & coax)	yes	yes, 2	no	no	no	no	no	no	no	no	#194 2006
<b>TECHNOTREND S2-3650CI</b>	unlimited	4-45	yes	1.0	no	NTSC/PAL	no	no	no	12 V	no	no	no	no	no	no	no	no	no	no	yes	no	#201 2007
<b>TECHNOTREND TT-micro S320 HDMI</b>	!	2-45	yes	1.0	no	NTSC/PAL	no	no	no	12 VDC or 230 VAC	yes	yes (optical)	yes	yes, 2	no	no	no	no	no	no	yes	no	#201 2007
<b>TOPFIELD TF6000PVRE</b>	5000	2-45	yes	1.0, 1.1, 1.2, 1.3	yes	NTSC/PAL	no	yes	no	90-250 VAC 50/60Hz	no	yes (S/PDIF)	yes	yes, 2	yes	no	no	no	yes	yes, RS-232	yes, 2	no	#198 2007
<b>TOPFIELD TF7700HSCI</b>	5000	2-45	yes	1.0, 1.1, 1.2, 1.3	yes	NTSC/PAL	no	yes	no	90-250 VAC 50/60Hz	yes	yes (S/PDIF)	yes	yes, 2	no	no	no	no	no	yes, RS-232	yes, 2	no	#197 2007
<b>TOPFIELD TF7700HSCI</b>	5000	1-45	yes	1.0, 1.1, 1.2, 1.3	yes	NTSC/PAL	no	yes	no	90-250 VAC 50/60Hz	no	yes (S/PDIF)	yes	yes, 2	no	no	no	no	yes	yes, RS-232	yes, 2	no	#196 2007
<b>ZIMPLE BOX 3</b>	1000	2-45	yes	1.0, 1.2	no	NTSC/PAL	no	no	no	AC 80-270V 50/60Hz	no	no	yes	no	no	no	no	no	no	yes, RS-232	no	no	#202 2007

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# 通往顶端的 ARION 之路

亚历山大·维思

我们在一年以前曾经报道过 ARION 公司,他们是一个以韩国为基地的高品质卫星接收机制造厂商,他们在销售活动中采用了上面的口号。我们很想要了解在过去的一年中 ARION 的情形,其间,他们的第一款高清卫星电视接收机在市场上面世。现在, ARION 又推出一款高清卫星电视接收机,而我们也将在本期《国际卫星电视》里加以介绍。

营销经理 托马斯·卢跟我们解释说:“在首尔这里,我们比一年前增加了 20% 的职员。”ARION 是一家智力型公司,超过一半的职员 - 现在是 70 名 - 在从事研发工作。

现在,卫星接收机的产地主要在东莞,在中国他们有 200 名职员。托马斯对于公司的未来相当乐观:“2007 年,我们预计完成八千万美元的销售额,到 2008 年,我们相信会突破一亿美元。”

托马斯·卢介绍说,“我们 50% 的销售收入来自欧洲, 20% 来自印度, 20% 来自中东和北非, 10% 来自南美洲和澳洲。”托马斯解释这些数字说:“我们不仅参与高端市场的竞争,而且也积极抢占新兴市场。”

他下面的一席话使我们感到惊讶:“我们最近在阿根廷的布宜诺斯艾利斯开设了一个销售办事处,不仅于此,我们正在计划在南非和印度开设销售办事



▲ 营销经理托马斯·卢在他的办公室中。《国际卫星电视》杂志总是放在他的文件盒里面

ARION 大楼的最下面两层被出租了,这会是将来的扩充空间。其余楼层完全被 ARION 占满。管理人员在三楼,而工程师和程序员及其个人计算机和仪器则在四、五、六楼

处。”ARION 还认为独联体国家也是一个值得关注的市场。

影音研发实验室的经理凯西·朱告诉了我们 ARION 成功的产品线:“50%是内建 CA 的卫星接收机,而 30% 是免费卫星接收机。”

托马斯·卢则告诉我们更多,“具有录像功能的接收机虽然在销量上只占 20%,但却占我们销售收入的 40%。”录像接收机正变得越来越重要,特别是由于有了用 SATA 方式连结外置硬盘的那些型号接收机。当处理高清电视信号的时候,对向硬盘传输数据速率的要求更高,而 SATA 接口则最适合。

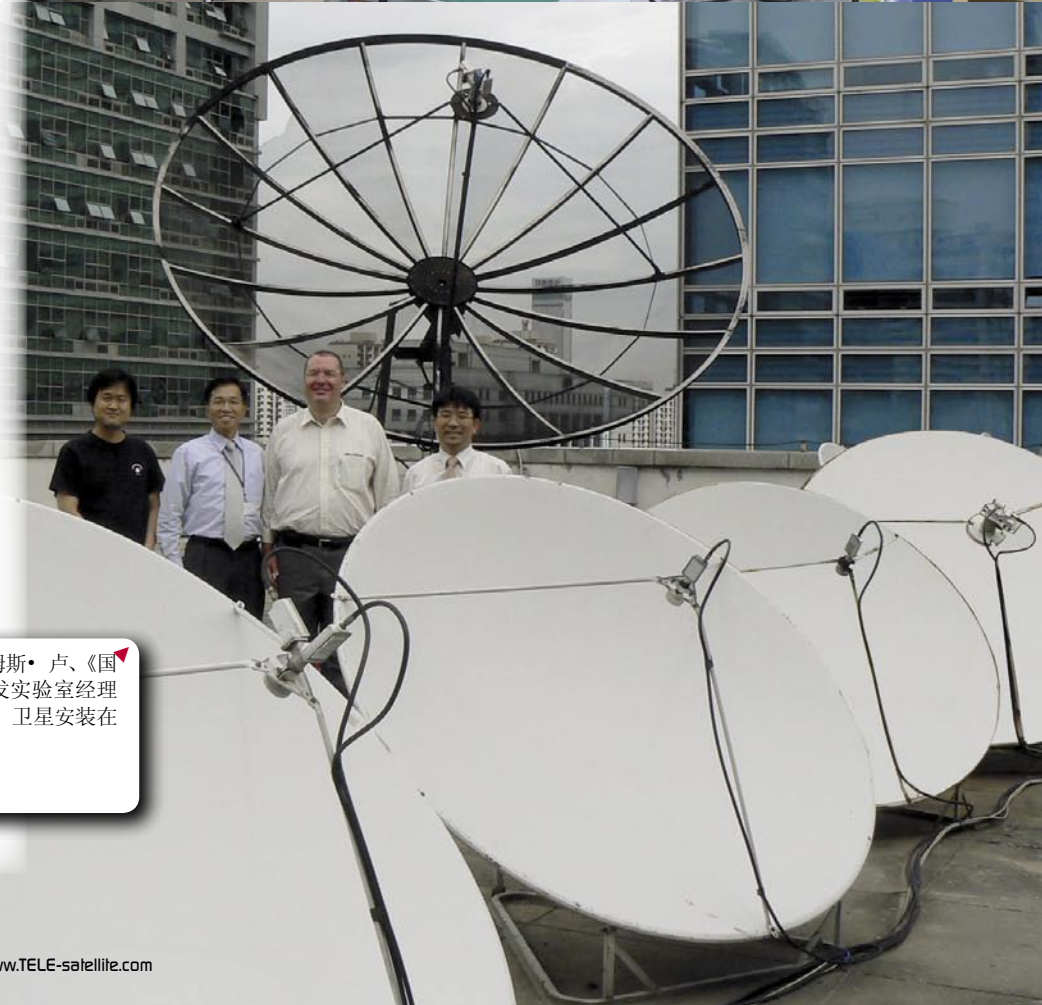
ARION 也在积极研发新的产品,包括一款销往德国市场的 ENTAVIO 接收机和一款销往澳洲内建 Irdeto 系统和康宝光驱的接收机。在爱尔兰、斯洛伐克、阿根廷和印度,许多大的有线电视和卫星电视业者也是 ARION 的客户。“我们还正在研究高清卫星电视录像机”,凯西·朱解释说。

ARION 也正在致力于 IPTV 的业务。凯西认为主要的市场在于闭路电视网络。他说这还包括:“酒店、医院、中小学校和大学。”另外一个重要目标市场是有线电视业者,他们想整合 CATV、互联网和 VoIP,而 ARION 正在感觉这一市场需求,并预定在 2008 年第三季度在市场上销售混合的 IPTV 产品。

高清卫星电视的大繁荣将会何时到来呢?我们向托马斯·卢提出了这个问题,而他很快就回答我们说:“那会是在 2008 年的第四季度”,那正是圣诞节的季节。ARION 应该知道-他们生产高清卫星电视接收机。

为了更美好生活要作出良好的选择!

从左边开始:高级工程师菲力浦·李、营销经理托马斯·卢、《国际卫星电视》杂志发行人亚历山大·维思、影音开发实验室经理凯西·朱。另外两个接收俄国 YAMAL 和 EXPRESS 卫星安装在一栋毗连的楼顶。





高级销售经理山姆·张,在给我们展示一些 ARION 的杰出产品证书和奖状,令人印象深刻。他也负责组织 ARION 的展览会和访问。他解释说,“在 2008 年,我们将会参加 ANGA 和 IBC。”



韩先生是高清电视 4000 的研发经理。高清电视 4000 卫星接收机将在这期《国际卫星电视》里介绍



新产品在这里进行测试。生产的接收机也是在这里进行检查以确认详细说明书里面的操作



影音开发实验室经理凯西·朱正在为我们展示一款 ARION 为日本 ISDB-T 市场生产 DVB-M 机顶盒的全部功能。ARION 在测试实验室里安装成测试用的小型 ISDB-T 数据流发生器。当然,ISDB-T 只在日本使用。



**TELE-satellite World** [www.TELE-satellite.com/...](http://www.TELE-satellite.com/...)

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Greek	Ελληνικά	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/hel/arion.pdf">www.TELE-satellite.com/TELE-satellite-0801/hel/arion.pdf</a>
Croatian	Hrvatski	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/hrv/arion.pdf">www.TELE-satellite.com/TELE-satellite-0801/hrv/arion.pdf</a>
Italian	Italiano	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/ita/arion.pdf">www.TELE-satellite.com/TELE-satellite-0801/ita/arion.pdf</a>
Hungarian	Magyar	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/mag/arion.pdf">www.TELE-satellite.com/TELE-satellite-0801/mag/arion.pdf</a>
Mandarin	中文	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/man/arion.pdf">www.TELE-satellite.com/TELE-satellite-0801/man/arion.pdf</a>
Dutch	Nederlands	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/ned/arion.pdf">www.TELE-satellite.com/TELE-satellite-0801/ned/arion.pdf</a>
Polish	Polski	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/pol/arion.pdf">www.TELE-satellite.com/TELE-satellite-0801/pol/arion.pdf</a>
Russian	Русский	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/rus/arion.pdf">www.TELE-satellite.com/TELE-satellite-0801/rus/arion.pdf</a>
Turkish	Türkçe	<a href="http://www.TELE-satellite.com/TELE-satellite-0801/tur/arion.pdf">www.TELE-satellite.com/TELE-satellite-0801/tur/arion.pdf</a>

在 ARION 大楼的屋顶上: ARION 技术人员们测试卫星接收机用的一些卫星天线。右边的小天线是接收韩国 SkyLife 节目套餐的。



▲ 保罗·皮克林, 地平线公司的董事长兼总经理受到女王陛下的嘉奖

## 女王陛下 与地平线公司



**你**必须做些什么才能受到女王陛下的接见呢?实际上很简单:变成全国出口量最大的公司。在 2007 年的国际贸易中,英国的测量仪器制造厂商地平线公司被授予'女王企业奖',这是《国际卫星电视》在一年之后要再一次拜访地平线公司的原因(见《国际卫星电视》01/2007)。

这次,我们来到位于伦敦北部艾塞克斯郡的哈洛。在这里地平线公司董事长兼总经理保罗·皮克林已经买下一片带有大型仓库的土地,它将成为地平线公司将来发展的基地。

事实上,按照地平线公司销售经理约翰·麦可隆恩自豪的说法,地平线公司过去已经取得了显著的成长,现在拥有十二名员工,还在寻找三个工程师来加盟。

因此我们想要知道自从去年我们拜访以后又有什么进展,约翰给我们展示了最近的销售报表并回答了这个问题:“在 2003 年,我们的营业额为三百万英镑,到了 2006 年已经增加到了四百万英镑,而 2007 年我们预计能达到四百五十万英镑,预计 2008 年将达到五百五十万英镑。”

地平线公司以营业额年递增 7% 的业绩成为该郡出口量最大的公司。“最多是输往美国”,约翰说这大约占 60%。其余的 33% 分布在全世界的其它地方,“新的市场有很大的增加,如中国、印度和俄国”,约翰补充道。有线电视在这些国家很普及,在向数字化方向的过渡中为了扩大网络覆盖需要大量的测量仪器。



▲ 约翰·麦可隆恩展示着女王颁发的奖状:上有伊丽莎白女王和托尼·布莱尔首相的签名。

销售测量仪器要做大量的咨询工作,这也就是地平线公司要做的售后服务。首先在开发测量仪器中需要大量的专有技术。同时,地平线公司的专家们还具有许多品牌,而“我们生产的 85% 是 OEM 产品,”约翰解释说。

2008 年,地平线公司将要推出一整系列的新产品。第一季度我们将会看到地平线公司第一款 DVB-C 测量系统,而且还有第一款 DVB-data(数据)的设计,它是用来测量众所周知冠名为‘Turbo’的北美 8PSK Ka 波段野蓝传输模式数据的传输速率。实际上 EUTELSAT 也正

在欧洲传输首个通过卫星进行互联网广播的测试。

而后,地平线公司将会介绍其第一款 DVB-S2 测量系统,第二季度还预备推出一款 DVB-T 和 DVB-S2 的万用表,同样也在二季度推出适合专业人士的专业版系列产品。

女王当然将荣誉授予了地平线公司。该公司的许多作为将会让它在将来继续引领潮头很久!

# NANOXX

Digital Receivers of Premium Quality



## NanoXX 9200 (Satellite)



2 Smart card reader, licenced for:



XCrypt, Conax, DG Crypt, FireCrypt, Crypton



Blind-Scan Tuner: 1-5 MHz Steps



USB for Software Upgrades  
and Fotoshow (JPG) on TV

## NanoXX 9300C (Cable)



1 Smart card reader, licenced for:



XCrypt, Conax, DG Crypt, FireCrypt, Crypton



2 Common Interface



Blind-Scan Tuner: 1-5 MHz Steps



USB for Software Upgrades  
and Fotoshow (JPG) on TV

## NanoXX 9400 (Satellite)



2 Smart card reader, licenced for:



XCrypt, Conax, DG Crypt, FireCrypt, Crypton



2 Common Interface



Blind-Scan Tuner: 1-5 MHz Steps



USB for Software Upgrades  
and Fotoshow (JPG) on TV



## NanoXX 9600 IP (Satellite)



1 Smart card reader, licenced for XCrypt



Ethernet RJ45 for automatic software  
upgrades via your Internet router



IP PVR Function:

Video recording over your LAN Home  
Network. Record your favorite movies  
directly to the hard disk of your  
Personal Computer!

**Distributor Germany**  
MatriXX Systems GmbH  
Industriestr. 2  
D - 65835 Liederbach  
<http://www.matrixxsystems.de>

**Distributor Switzerland**  
Telanor AG  
Bachstr. 42  
CH - 4654 Lostorf  
<http://www.telanor.ch>

**Distributor Austria**  
Baytronic Handels GmbH  
Harterfeldweg 4  
A - 4481 Asten  
<http://www.baytronic.at>

<http://www.nanoxx.info>

**Get the Power!**



▲ 地平线公司新的总部现在位于艾塞克斯的哈洛。飘扬的蓝色旗帜象征着受到了女王的嘉奖。



▲ 开发测量仪器工程师工作间一瞥。前面：设计工程师杰瑞德·斯牙伍德。后面：技术总监保罗·哈德卡斯托。“我们相信我们是第一个通过独立的 BSI 实验室 EMC 鉴定的卫星测试仪器制造厂家”。这就意味着地平线公司的产品符合欧洲 BS EN 61326 防电磁干扰标准。杰瑞德·斯牙伍德补充说“当然，我们的仪器也通过了抗静电标准 BS EN 61000 的技术鉴定。”



▲ 高度机密！第一台超级系列广播样机，举例来说，它用在专用车上检查信号质量。顶上最小的单元是 TSR（数据流传送读取器），也符合专业版系列规格，将会在 2008 年的第二季开始推出。

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with Common Interface

The New

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- VFD Front Panel Display for text information

### TM-6800 HD

DVB-S/S2 Satellite

### TM-6900 HD COMBO

DVB-S/S2 Satellite & DVB-T Terrestrial

\*may need to be powered

# 迎接高清时代 - 前进中的 Topfield

Alexander Wiese





The Topfield building in Seohyeon, a city south of Seoul, next to the Metro Line 4 station, which has a stop right in middle of the huge Shopping Mall 'Samsung Plaza'



Topfield 公司的大楼坐落在 Seohyeon, 首尔南方的一个城市, 紧邻着地铁 4 号线车站, 就在大型购物商场 ‘韩国三星公司广场’ 的中央。大卫·崔预计明年的销售将大大增加: “在 2008 年, Topfield 高清卫星电视接收机的销售增长幅度有望从 2007 年的 10% 增加到 40%。”

大卫·崔是 Topfield 的销售商, 他使我们相信他的预测将会实现。 “我们正在锁定新的市场”, 大卫·崔解释说。 他谈到了在拉丁美洲、东南亚、澳洲和所有的欧洲市场的销售。

Topfield 公司成立于 1998 年, 并在 2000 年开始出口产品。 Topfield 在 2002 年为自己制造的第一款录像机产品闻名, 而在 2006 年再一次以首台无线局域网录像机 TF6000 PVR 闻名。 其销售额在稳定地增加: 2003 年是四千九百万美元, 2004 年上升到八千万美元, 而在 2006 年则上升到了一亿零二百万美元。

预计 2007 年将达到一亿七千万美元, 而 2008 年将会达到二亿七千万美元。

Topfield 最大的市场是在澳洲和所有的欧洲市场。 “而在亚洲、中东和拉丁美洲的销售也在不断地增加,” 大卫·崔解释道。 除了卫星接收机以外, Topfield 也生产 IPTV 系统。

在韩国有两个制造厂在生产, 还有两个制造点位于海外。 大卫解释说: “另外一个装配厂位于泰国。”

在首尔有 150 名职员, 其中 80 人从事研发设计, 另

外的 35 个工程师从事产品开发，加上 25 人的销售团队和 10 名管理人员。德国的一个分公司负责欧洲的销售业务。

Topfield 积极地参与展览，虽然并不总是以其自己的展台出现在展览会上，但是有时是在附近的一间酒店中。大卫解释道，“离开展览会会场会更安静些，这也使我们比较容易地与客户集中谈话。”

大卫·崔告诉我们：Topfield 将会出现在荷兰的 IBC、德国的 ANGA、杜拜的 CabSAT、德国的 IFA、土耳其的 CeBit，巴西的 ABTA、西班牙的 SEMIC，法国的 Antennes 和俄国的 CSTB 等展览会上。

Topfield 在每个国家和大陆上向前进发！



▲ Topfield 的销售商大卫·崔(右边)，《国际卫星电视》的主编亚历山大·维思(左边)。

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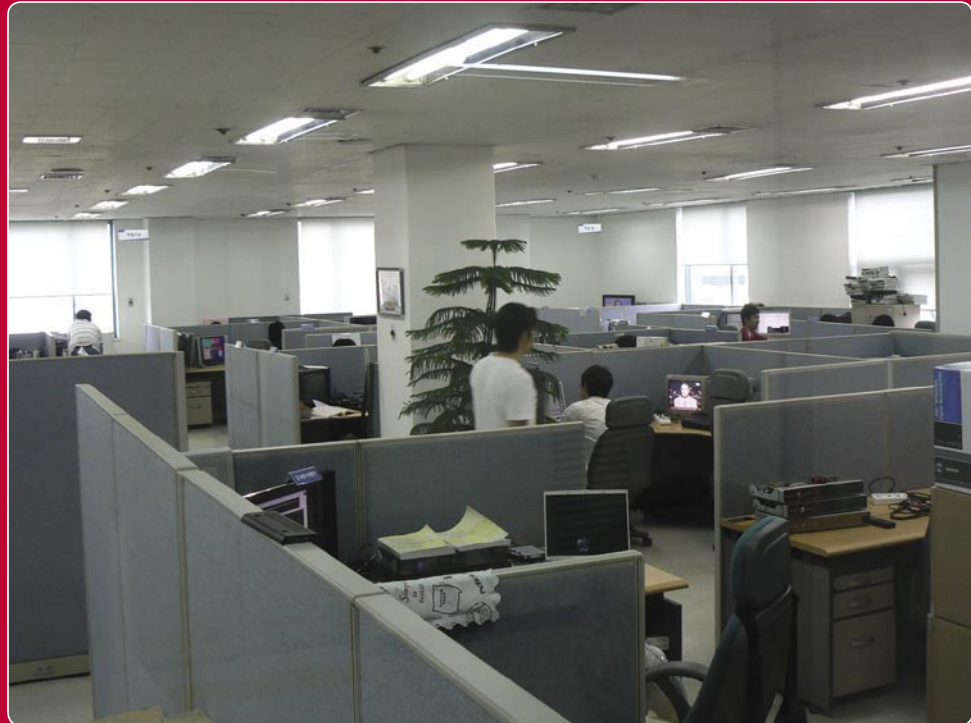
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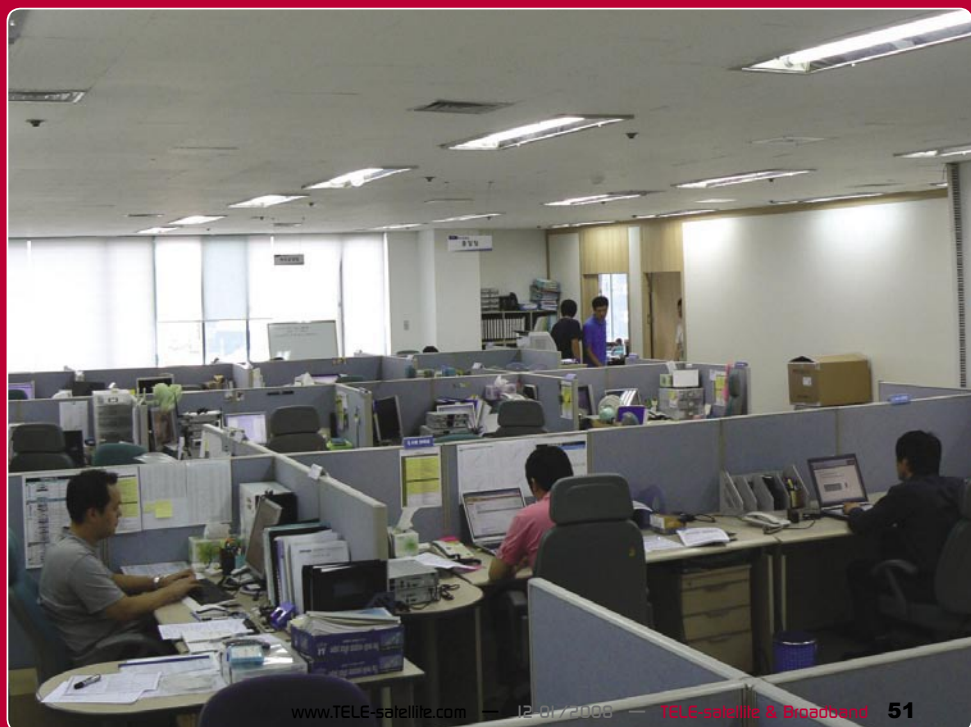
大卫·崔站在 Topfield 大楼的屋顶上。还可以看见一个小型天线,它与其它天线一起接收 KOREASAT 卫星上的 SkyLife 节目。



销售团队在认真工作。



在这里,工程师研发未来的 Topfield 卫星接收机。



# SAMMEG 约翰内斯堡

“抓住你的机会”，这是约尔·道范的信条。这不仅仅说明了 SAMMEG Pty 卫星公司是如何起家的，而且也是 SAMMEG 公司用 SAMSAT 商标提供产品时所做出的选择。这些都始于 1994 年。

那时，DSTV 付费电视节目刚刚开播。一个经销商看到这是一个巨大机会，下了一个 90 cm 天线的大订单，但是最后却没有付款。

在约翰内斯堡高腾工业西区的北方，可以看见 SAMMEG Pty 卫星公司的办公大楼。储藏仓库在左边，不在视野里。后面是“天线国王”牌开路电视天线的制造厂。

约尔·道范是 SAMMEG Pty 卫星公司的董事长和技术总监。在这里我们看见他在办公大楼屋顶调整天线。那个“天线国王”是 SAMMEG Pty 卫星公司自己生产的开路电视天线的商标。右面天线上印着 SAMSAT 的标志。



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三个合伙人之一的肖恩·米道斯是SAMMEG Pty 卫星公司的总经理。



68.5°E的 Intelsat 7/10 卫星上 DSTV 付费电视服务的。

在较大的商场里，这些配件都附带有一个安装凭证。“我们的呼叫中心整天都会接到数百个电话”，约尔解释说。所有的来电者都向在他们家里安装成套接收系统的SAMMEG Pty卫星公司的合同安装人员索要凭证。

约尔出生在津巴布韦，来南非前他在那里住了 17 年。他告诉我们，他销售额的 90% 在国内，其余的 10% 卖到津巴布韦、博茨瓦纳和那米比亚。

他估计在南非接收卫星的有一百三十万个家庭，总计有四千万人口。SAMMEG Pty卫星公司有三个地方有商店：约翰尼斯堡、开普敦和德尔班。

约尔·道范听说后决定投资这桩卫星生意。这件事最后的结局是导致另外三个合伙人成立了 SAMMEG 卫星公司。

在第一年里，年轻公司的问题就是如何将两整集装箱的卫星器材销售出去。“在 2006 年，公司业务量超过了 50 个集装箱”，约尔解释说，他还是一位呼号为 ZS6 CBA 的业余无线电爱好者。

SAMMEG Pty卫星公司是一个批发商，它给经销商、零售商店和从事安装的个人供应的货品有从天线到 LNB 的每一种产品，还包括从接收机到所有的配件：接头、开关、天线和信号分析仪等。90% 的天线是 60 cm 型号的，其余的天线是 90 cm 的。大部份的天线是用来接收



约尔·道范和他的接待员撒妮娅，她面对客人和电话来访者总是面带微笑。



开路电视天线制造厂一瞥。“它确实拥挤些”，约尔解释说，“从中国进口用南非铝做好的天线部件要比我们自己生产便宜。”原料铝在他们国家中要比再进口货昂贵很多。



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

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- New manual carrier configuration mode
- Twice the satellite setting capacity with 64 selections available
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- L-Band, C-Band, Ku-Band and Ka-Band capability
- Quality indicator (Pre BER) displayed alongside RF Level (dBuV)
- Pre and Post BER can be displayed with their actual values (setup option)
- Toggle to display Post BER and Carrier to Noise (dB)

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

#### HDSM USB PLUS (additional features)

- Easy to use Spectrum Display Mode
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- Data Logging (upload installation measurement data to your PC)

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总经理肖恩·米道斯还负责财务方面的工作，提供给我们几个细节：“我们向南非的四个大型销售链供货，还大约有500个体经销商和安装者。”

SAMMEG Pty卫星公司的雇员超过100人，他们工作在特高频/超高频天线制造、仓储和销售方面，其他的雇员分布在三家商店之中。

约尔今后的计划是什么呢？他期望有较多的VSAT业务出现，他预见到了有趣的未来，例如借助双向通讯为互联网提供服务。

世界杯足球巡回赛于2010年在约翰尼斯堡举办，这让他对于卫星业务的未来非常乐观！



SAMMEG Pty 卫星公司最近在市郊的村庄里开办了新的办公场所。SAMMEG 搬来以前它是一个银行的办事处。其地下室现在用来安全地存放 PVR 接收机。



在SAMMEG 公司城里的办公室里可以找到天线安装者所需要所有东西。在这张照片里，柜台后面的销售购物经理史蒂文·柯尔斯顿忙着付给给客户因构·所罗门一卷电缆。因构·所罗门操作着 SatcoDX 自动搜索站约翰尼斯堡第4和第5站，约尔·道范操作着 SatcoDX 自动搜索站约翰尼斯堡第2站。



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*"We exhibit at over 20 shows annually. CABSAT is by far the best in terms of calibre of attendees and focus on satellite and business opportunities."*

**Scott Aukema, Senior Manger Channel Marketing, iDirect Technologies\***

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\*Feedback compiled at CABSAT2007

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# SEKI 卫星公司, 首尔

“Seki” 是一个韩国词，意思是“世纪”。SEKI 卫星公司即世纪卫星公司，这是一家韩国的卫星器材公司。这个有趣的名字足以让我们去参观他们。

我们在离首尔市中心不太远的中区市郊中找到了他们。创始人和老板是吴焕贞。“我的公司成立于 1989 年并开始安装天线”，他解释着并回忆起早些年光景。公司发展到现在已经雇用了三名技术工程师和六名销售员。这么多销售员？“我们现在是一个卫星器材批发商”，吴焕贞解释说。他估计大约有 60% 的卫星产品销往韩国国内，这使得世纪卫星公司位于市场的前列。

他们的技术经理金义振马上到最近的计算机上，通过他们的内网找出并打印出最新的销售报表。我们看到世纪卫星公司有一个月是 SKC-8000 FTA 接收机的销售冠军。“这是韩国制造厂商智友公司一个型号的机器”，金义振解释说。统计表显示在一个月共销售了 720 台这款机器，占他们的销量的 8.17%。然后的

在离药水都会车站不远，3 号线和 6 号线的交汇处，可以看到世纪卫星公司的办公室。他们还分销韩国直播卫星节目供应商 SkyLife 的付费电视服务。



吴焕贞是世纪卫星公司的创始人和老板。这家公司也是韩国最大的卫星器材批发商之一。



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销售陈列室一瞥。在这里客户能得到关于接收 SkyLife 付费电视套餐和有关国际频道的更多信息。



世纪卫星公司仍然保留手工修理接收机的业务。一个技术人员正在这里忙碌着他的修理工作。



技术经理金义振还负责世纪卫星公司大楼屋顶上的天线。背景里带有 C/Ku波段 LNB 的 3 米天线经常用来检查接收情况。“我总是从 SatcoDX 的图表上看看是否有任何新的频道，”金义振透露说。

6.26% 是 “ F ” 接头，在那那个月中发出了 552 件。第三部分全是 60cm 天线和 LNB。他告诉我们：“这套系统是用来接收 KOREASAT 5 上免费频道的”。对于从那个卫星接收付费电视的客户来说，他们从 SkyLife 的节目供应商那里拿到整套的接收系统。“我们也是 SkyLife 的一个经销商”，金义振说，“但是这些销售额没包括在统计表里。”




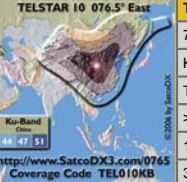












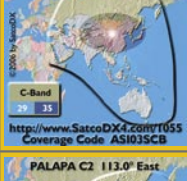


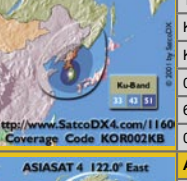
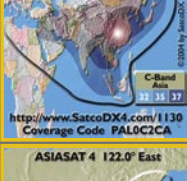










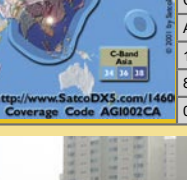







世纪卫星公司其它旺销的是卫星和有有线电视混频器。再看卫星天线的销售量，首位是 60cm，然后是 90cm 和 75cm，第四位是 1.8 米天线。

世纪卫星公司也提供日本 BSAT 卫星的模拟接收器材。“45cm 在韩国南部接收是没问题的，但是在首尔这里就几乎不可能了。” BSAT 卫星的场强覆盖范围非常狭窄。“为接收 BSAT，我们提供的 LNB 本振为 10.678GHz”，金义振解释说。而接收 KOREASAT 的 LNB 本振为 10.750 GHz。由于有许多不同的变化，世纪卫星公司的员工需要完全了解客户需要什么。

他们销售额的最大部分，“大概为 60% 是来自批发”，金义振补充说，“有 40% 来自卫星和 SMATV 系统的安装。”

最后我们还想要知道世纪卫星公司销售接收机的构成比例。除了智友公司的免费接收机，他们还销售 ARION 公司的高端产品。“我们大部分的天线是台湾的 JONSA 牌”，金义振解释说，“只有 45cm 天线是在韩国这里制造的。”较大的网孔天线是从泰国进口的。“我们对于 Spaun 的 DiSEqC 开关很满意”，金义振继续说道，“遗憾的是在韩国只能收到 30 个卫星，否则卫星生意会更多更有趣！”

# Satellite Beams Covering Seoul/Korea

<b>Satellite</b>	<b>INTELSAT 10 068.6° East</b>	<b>INTELSAT 7,10</b>	<b>ABS-1 075.0° East</b>	<b>ABS-1</b>	<b>TELSTAR 10 076.5° East</b>	<b>TELSTAR 10</b>	<b>TELSTAR 10 076.5° East</b>	<b>TELSTAR 10</b>
<b>Position</b>		68.5E		75.0E		76.5E		76.5E
<b>Band</b>	C	C	Ku	KU	C	C	Ku-Band	KU
<b>Beam</b>	INT010CV	INT010CV	ABS001SB	ABS001SB	TEL010CG	TEL010CG	TEL010KB	TEL010KB
<b>Dish size</b>	1.8-2.4m	1.8-2.4m	>0.9m	>0.9m	>1.8m	>1.8m	>1.2m	>1.2m
<b>FTA-TV</b>	40	40	16	16	25	25	14	14
<b>Pay-TV</b>	72	72	0	0	17	17	32	32
<b>Satellite</b>	<b>THAICOM 5 078.5° East</b>	<b>THAICOM 2/5</b>	<b>EXPRESS AM-2 080.0° East</b>	<b>EXPRESS AM2</b>	<b>INSAT 2E 83.0° East</b>	<b>INSAT 2E</b>	<b>CHINASTAR 1 87.5° East</b>	<b>CHINASTAR 1</b>
<b>Position</b>		78.5E		80.0E		83.0E		87.5E
<b>Band</b>	C	C	C	C	C	C	C	C
<b>Beam</b>	THA005CG	THA005CG	EXPAM2CR	EXPAM2CR	INS02ECZ	INS02ECZ	CHI001CB	CHI001CB
<b>Dish size</b>	2.4m	2.4m	1.6m	1.6m	1.8m	1.8m	1.8m	1.8m
<b>FTA-TV</b>	28	28	47	47	29	29	2	2
<b>Pay-TV</b>	33	33	3	3	5	5	6	6
<b>Satellite</b>	<b>YAMAL 201 090.0° East</b>	<b>YAMAL 201</b>	<b>MEASAT 3 091.5° East</b>	<b>MEASAT 1,3</b>	<b>INSAT 3A 093.5° East</b>	<b>INSAT 3A</b>	<b>NSS-6 095.0° East</b>	<b>NSS6</b>
<b>Position</b>		90.0E		91.5E		93.5E		95.0E
<b>Band</b>	C	C	C	C	C	C	Ku	KU
<b>Beam</b>	YAM201CB	YAM201CB	MEA003CG	MEA003CG	INS03ACE	INS03ACE	NSS006IN	NSS006IN
<b>Dish size</b>	1.8m	1.8m	1.8m	1.8m	1.8m	1.8m	0.9m	0.9m
<b>FTA-TV</b>	32	32	5	5	17	17	7	7
<b>Pay-TV</b>	1	1	2	2	0	0	5	5
<b>Satellite</b>	<b>ASIATASAT 2 100.5° East</b>	<b>ASIATASAT 2</b>	<b>ASIATASAT 2 100.5° East</b>	<b>ASIATASAT 2</b>	<b>EXPRESS A2 103.0° East</b>	<b>EXPRESS A2</b>	<b>EXPRESS A2 103.0° East</b>	<b>EXPRESS A2</b>
<b>Position</b>		100.5E		100.5E		103.0E		103.0E
<b>Band</b>	C	C	KU	KU	C	C	KU	KU
<b>Beam</b>	ASI002CB	ASI002CB	ASI002KU	ASI002KU	EXPA02C2	EXPA02C2	EXPA02KS	EXPA02KS
<b>Dish size</b>	1.6m	1.6m	1.6m	1.6m	1.6m	1.6m	1.6m	1.6m
<b>FTA-TV</b>	60	60	1	1	2	2	1	1
<b>Pay-TV</b>	15	15	0	0	5	5	1	1
<b>Satellite</b>	<b>ASIATASAT 3S 105.5° East</b>	<b>ASIATASAT 3S</b>	<b>BSAT 1A 110.0° East</b>	<b>B-SAT 1A</b>	<b>BSAT 2A 110.0° East</b>	<b>B-SAT 2A</b>	<b>KOREASAT 2 113.0° East</b>	<b>KOREASAT 5</b>
<b>Position</b>		105.5E		110.0E		110.0E		113.0E
<b>Band</b>	C	C	KU	KU	KU	KU	KU	KU
<b>Beam</b>	ASI03SCB	ASI03SCB	BSA01AKB	BSA01AKB	BSA02AKB	BSA02AKB	KOR002KB	KOR002KB
<b>Dish size</b>	1.6m	1.6m	1.6m	1.6m	0.45-2.4m	0.45-2.4m	0.45m	0.45m
<b>FTA-TV</b>	49	49	2	2	10	10	6	6
<b>Pay-TV</b>	1	1	0	0	0	0	0	0
<b>Satellite</b>	<b>PALAPA C2 113.0° East</b>	<b>PALAPA C2</b>	<b>KOREASAT 3 116.0° East</b>	<b>KOREASAT 3</b>	<b>THAICOM 1A 120.0° East</b>	<b>THAICOM 1A</b>	<b>ASIATASAT 4 122.0° East</b>	<b>ASIATASAT 4</b>
<b>Position</b>		113.0E		116.0E		120.0E		122.0E
<b>Band</b>	C	C	KU	KU	C	C	C	C
<b>Beam</b>	PAL02CA	PAL02CA	KOR003KB	KOR003KB	THA01ACR	THA01ACR	ASI004CB	ASI004CB
<b>Dish size</b>	4.2m	4.2m	0.45m	0.45m	1.8m	1.8m	1.6m	1.6m
<b>FTA-TV</b>	5	5	9	9	7	7	12	12
<b>Pay-TV</b>	0	0	134	134	0	0	22	22
<b>Satellite</b>	<b>ASIATASAT 4 122.0° East</b>	<b>ASIATASAT 4</b>	<b>JCSAT 4A 124.0° East</b>	<b>JCSAT 4A</b>	<b>JCSAT 3 128.0° East</b>	<b>JCSAT 3</b>	<b>JCSAT 3 128.0° East</b>	<b>JCSAT 3</b>
<b>Position</b>		122.0E		124.0E		128.0E		128.0E
<b>Band</b>	KU	KU	KU	KU	C	C	KU	KU
<b>Beam</b>	ASI004KE	ASI004KE	JCS04AKJ	JCS04AKJ	JCS003CA	JCS003CA	JCS003KJ	JCS003KJ
<b>Dish size</b>	1.6m	1.6m	0.9m	0.9m	1.2m	1.2m	0.9m	0.9m
<b>FTA-TV</b>	0	0	5	5	12	12	2	2
<b>Pay-TV</b>	30	30	71	71	32	32	180	180
<b>Satellite</b>	<b>APSTAR 6 134.0° East</b>	<b>APSTAR 6</b>	<b>APSTAR 5 - TELSTAR 10 138.0° East</b>	<b>TELSTAR 18</b>	<b>EXPRESS AM-3 140.0° East</b>	<b>EXPRESS AM3</b>	<b>AGILA 2 146.0° East</b>	<b>AGILA 2</b>
<b>Position</b>		134.0E		138.0E		140.0E		146.0E
<b>Band</b>	C	C	C	C	C	C	C	C
<b>Beam</b>	APS006CB	APS006CB	APS005CB	APS005CB	EXPAM3C6	EXPAM3C6	AGI002CA	AGI002CA
<b>Dish size</b>	1.8m	1.8m	1.8m	1.8m	1.6m	1.6m	1.8m	1.8m
<b>FTA-TV</b>	29	29	6	6	4	4	8	8
<b>Pay-TV</b>	0	0	20	20	8	8	0	0
<b>Satellite</b>	<b>INTELSAT 8 166.0° East</b>	<b>INTELSAT 8</b>	<b>INTELSAT 8 166.0° East</b>	<b>INTELSAT 8</b>	<b>INTELSAT 8 169.0° East</b>	<b>INTELSAT 2</b>	<b>INTELSAT 2 169.0° East</b>	<b>INTELSAT 2</b>
<b>Position</b>		166.0E		166.0E		169.0E		169.0E
<b>Band</b>	C	C	KU	KU	C	C	KU	KU
<b>Beam</b>	INT008CV	INT008CV	INT008KS	INT008KS	INT002CP	INT002CP	INT002KC	INT002KC
<b>Dish size</b>	1.6m	1.6m	0.9m	0.9m	1.8m	1.8m	0.9m	0.9m
<b>FTA-TV</b>	17	17	12	12	14	14	3	3
<b>Pay-TV</b>	12	12	24	24	11	11	3	3
<b>Satellite</b>	<b>INTELSAT 2 169.0° East</b>	<b>INTELSAT 2</b>	<b>INTELSAT 2 169.0° East</b>	<b>INTELSAT 2</b>				
<b>Position</b>		169.0E		169.0E				
<b>Band</b>	C	C	KU	KU				
<b>Beam</b>	INT002CP	INT002CP	INT002KC	INT002KC				
<b>Dish size</b>	1.8m	1.8m	0.9m	0.9m				
<b>FTA-TV</b>	14	14	3	3	▲ Compiled by Eui-Jin Kim, SEKI SATELLITE, Seoul, Korea © 2008 by SatcoDX Inc			
<b>Pay-TV</b>	11	11	3	3				

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# 中国 卫星器材 的销售

大多数的卫星产品都在中国制造。由于在那里向私人销售卫星产品还不允许,基于这个理由,《国际卫星电视》想要了解在中国买卖卫星产品的真实情况。如果这么想,那在中国应该没有多少卫星器材商店,还是有很多呢?

实际上, 在那里有相当多的商店! 一位业内人士跟我们解释了这种情形:“每家公司都有销售卫星器材给专业公司的许可,这在他们的商店中可以清楚地看见。然后检查人员会来检查并确信没有私人购买卫星产品。”

还有其它的问题:并没有多少人知道用卫星天线能接收很多其它的频道。而在中国的趋向是社会性超过个体性,现在广泛地使用有线电视。

城镇和农村是集体安装一套卫星接收系统并用有线或 MMDS 的方式来将信号分配到所有的家庭,虽然后者最终将停止,这为远距离接收实验只留下极小的空间。

事实上只有央视的频道和各省台及一些城市频道能被接收到。通常,一户有线电视的年收视费用约为 150 元人民币(大概 15 欧元),而一个卫星套站约为 500 元人民币(大概 50 欧元)并且终生免费。

结果,卫星商店也向有线电视的顾客群体提供产品,集体的卫星接收不属于私人接收。但是这也意味着即使有禁令,卫星爱好者也可以获得所需的卫星器材。

至少从现在开始,从可能性方面讲,115.5° E 的 CHINASTAR 6B 和 125° E 的 SINOSAT 3 号卫星的成功发射将会使这些法律趋向更加宽松。



▲来自振华公司的郭女士给我们展示两个分瓣天线:整体和网孔的。后者的风阻较小。她跟我们解释说,“我们每个月大约卖出 100 到 1000 个天线。”她卖的是 1.2 米和 1.5 米天线。



▲在中国一个东部城市的一家电器商场的四楼上,一个卫星玩家可以找到任何他所需要的东西。不仅有前面摆放的天线,而且还有 Ku 和 C 波段 LNB、DiSEqC 开关、卫星接收机以及成英里长的同轴电缆。



▲来自德龙公司的闫先生给我们展示《国际卫星电视》杂志,他说:“我们每个月大约卖出 500 个 1.2 米天线和大约 300 个 1.5 米天线。我们也曾经有几个月卖到 1000 个!”

▲在中国的一个东部城市中高耸着一座旧式的电视塔。旋转餐馆就在顶端,它仍然在运转,来的人也不少,在底楼的屋顶上还有一个卫星天线。

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▲ 翁女士在她的小卫星商店中。她跟我们介绍说：“我每个月卖出 200 到 300 个天线。”她也销售直径达 12 米的天线。但是多数情况下她销售的是有线电视器材。



▲ 汤姆先生商店的门口。



▲ 这位我们称为汤姆的先生很低调。在过去的八年里，他在中国东部的一个城市中做着批发/零售生意。他有七名职员，还有临时雇佣的安装工人。他最畅销的产品是 1.5 米天线。“它们占销量的 80%。”5% 是 1.8 米的天线，2% 是 2.4 米的天线。在这里他给我们展示一个 75 cm 的天线，这只占他销量的 2%。从货架上可以看到，他还销售多种接收机和电视调制器。



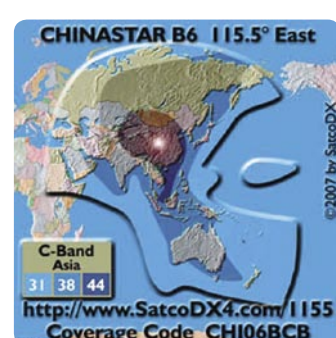
▲ 在这里可以看见殷先生和他自制的三星接收装置：SINOSAT 3(左边)、CHINASTAR 6B(中央) 和 ASIASAT 3S(右边,天线焦点)。



▲ 在这家商店中，我们惊讶于闫女士正在阅读《国际卫星电视》杂志。她的生意始于 1983 年，她跟我们介绍说：“我们三分之一的销售额来自卫星器材，其余的来自有线电视器材。”



▲ 越来越多的卫星天线正在中国各处出现。这是在一个中国东部城市里公寓大楼的俯瞰照片。



▲ 两个新的中国卫星 CHINASTAR 和 SINOSAT 的场强图。

# Exhibition Preview

- **22 - 25 November 2007: Broadcast Cable & Satellite eurasia**  
11th International Trade Fair and Conference for Satellite Communication, Broadcasting and TV Content  
İstanbul Expo Center, Yeşilköy, İstanbul, Turkey  
www.cebit-bcs.com



- **4 -7 February 2008: CSTB**  
Premier Professional Media Event in Russia  
Crocus Expo, Moscow, Russia  
www.cstb.ru



- **4 -6 March 2008: CABSAT 2008**  
Electronic Media and Satellite Communications Event  
Dubai International Convention and Exhibition Centre  
www.cabsat.com



- **21 - 23 March 2008: CCBN 2008**  
China Content Broadcasting Network annual Conference  
China International Exhibition Centre, Beijing, China  
www.ccbn.tv



- **27 - 29 May 2008: ANGA Cable**  
Trade Fair for Cable, Broadband & Satellite  
KoelnMesse, Cologne, Germany  
www.angacable.de

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Main table listing satellite channels with columns for Frequency, Channel Name, Symbol Rate, and other technical details. Includes sub-sections for various satellite systems like ASTRA, EUTELSAT, and ASIRIUM.

The Full Chart with the most up-to-date channel data is available exclusively for TELE-SATELITES users of SatcoDX's CD "World of Satellites". This CD is Exclusively Available only by Subscri...

# SatODX Global Satellite chart 12/2007

Prog ID Channel Name	Symbol rate	Freq PO Channel Name	Symbol rate	Freq PO Channel Name	Symbol rate	Freq PO Channel Name	Symbol rate	Freq PO Channel Name	Symbol rate	Freq PO Channel Name	Symbol rate	Freq PO Channel Name	Symbol rate	Freq PO Channel Name	Symbol rate	Freq PO Channel Name	Symbol rate	Freq PO Channel Name	Symbol rate	Freq PO Channel Name	Symbol rate
<b>AS130A0</b>		11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500
11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500	11.3667 OMN GENERAL PROG	27500



# SatcoDX Global Satellite Chart 12/2007

Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate
01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232	01561 MAD TV BULGARIA 4232













Table with columns: Freq/Pol Channel Name, Symbol rate, Freq/Pol Channel Name, Symbol rate. Lists satellite frequencies and symbols for various channels across the Americas.

Table with columns: Freq/Pol Channel Name, Symbol rate, Freq/Pol Channel Name, Symbol rate. Lists satellite frequencies and symbols for various channels across Europe and Africa.

Table with columns: Freq/Pol Channel Name, Symbol rate, Freq/Pol Channel Name, Symbol rate. Lists satellite frequencies and symbols for various channels across Asia and Oceania.

Table with columns: Freq/Pol Channel Name, Symbol rate, Freq/Pol Channel Name, Symbol rate. Lists satellite frequencies and symbols for various channels across South America and other regions.

Main table listing satellite channels with columns for Freq/Pol/Channel Name, Symbol rate, and various technical details. Includes sub-sections for 'AMAZONAS 29.0 E', 'AMAZONAS 29.0 W', and 'AMAZONAS 29.0 S'.









# Impression from South Africa

*This palm tree grew rather perfectly, didn't it?*

Only upon closer examination can you tell that this is a cell phone tower. Nestled within the artificial palm branches is a barely noticeable directional dish



# TELE-satellite's Global Distribution

Online Readers **Turkish** Edition

Source: Google Analytics

Geographical Distribution of TELE-satellite Readership



Readership in descending order:

- Istanbul
- Ankara
- Izmir
- Adana
- Bursa
- Antalya
- Diyarbakir
- Samsun
- Erzurum
- Kayseri
- Izmit
- Mugla
- Balikesir
- Aydin
- Eskisehir
- Icel
- Brussels
- Konya
- Manisa
- Trabzon
- Frankfurt am Main
- Oslo
- Adapazari
- Gaziantep



TELE-satellite Turkish Edition  
Grand Total Worldwide:  
**8157 Unique Readers**

TELE-satellite Magazine is published in 16 languages and distributed all over the world. The map shows readership of Turkish edition of TELE-satellite Magazine.

Subscription information see page 64 in this edition.

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TELE-satellite Magazine is available at the "cna" magazine and bookshops in South Africa, like in this branch in a Johannesburg shopping mall.



UPA in Korea is the latest addition to the worldwide magazine and bookshop distributors of TELE-satellite magazine. Picture shows Cavin Kwon, Deputy Circulation Manager of Universal Publications Agency, in his office in top floor of UPA building in Seoul.



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