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Super Fast Blind Scan Receiver

Test Report TechnoTrend Scart TV S100



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Test Report ARION AF-4000HDCI



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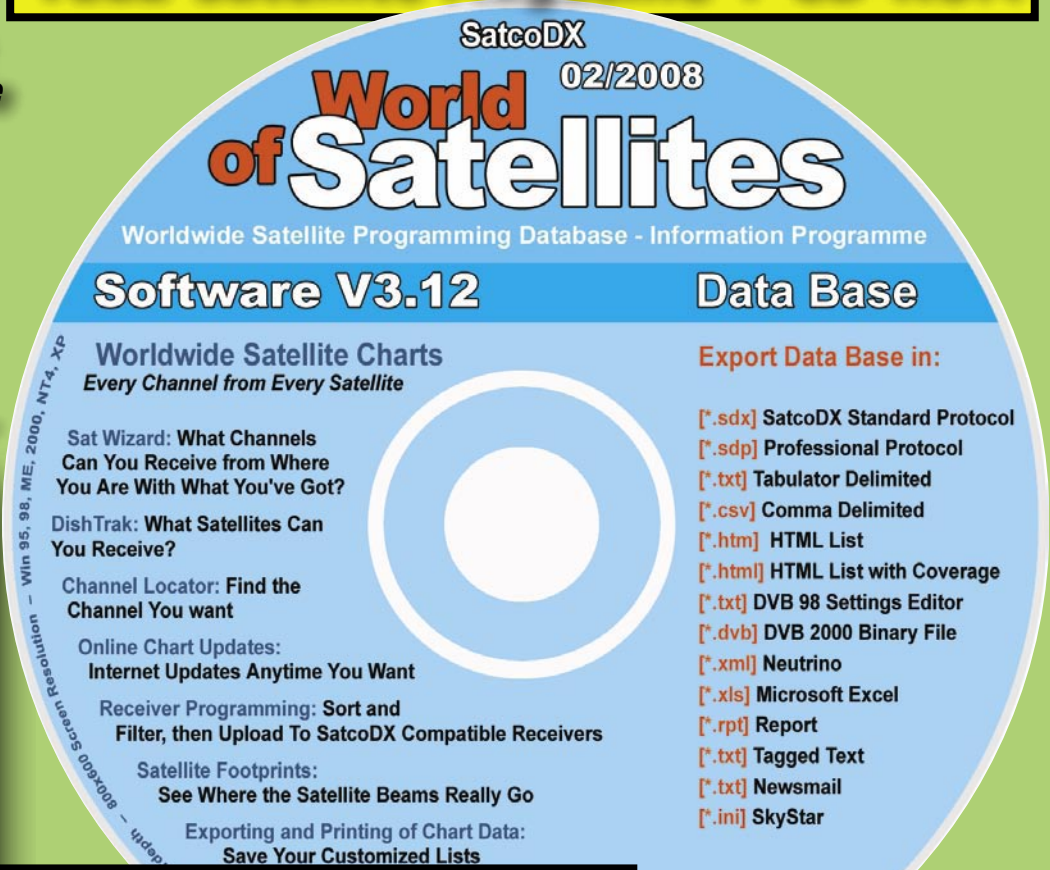
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Note: To update from previous Version 3.11 install "World of Satellites" Version 3.12 from this CD



SatcoDX's "World of Satellites" Software contains the technical data from all satellite transmissions worldwide

cdhelp@TELE-satellite.com
ISSN 1861-5384

Complete Channel Lists from Every Satellite With all Technical Data

Automatic Display of all Receivable Satellite Channels

Position Code and Satellite	Type	Ch	Freq	P	Channel Name	Coverage
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3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	4	3.760	V	Radio Futuro (right audio)	PANORLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.764	V	Canal 5 EL Lider	PANORLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.764	V	Telecadena 7 v.4	PANORLW

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- SatcoDX Main Server
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- Use Proxy
- Do Not Use Proxy

Print Channel Lists With Satellite Footprints in HTML Format

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- SatcoDX Industry Standard Protocol Professional (*.sdp)
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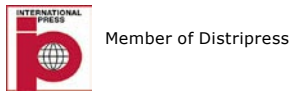


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الإنترنت فائق السرعة
عدد 20 حبة

01-02 2008

EGYPT 20 EP

تقرير اختبار NanoXX 9400
رئيسيفر للبحث الأعمى عن القنوات بسرعة فائقة

تقرير اختبار ARION AF-4000HDCI
HDTV مستقبل جيد

تقرير اختبار Techno Trend Scart TV S100
الرسيفر الخفي

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تفريغ دولة استقبال الأقمار الصناعية في سيول

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Супер бърз приемник с Blind Scan

Нови продукти Techno Trend Scart TV S100
Невидим сателитен приемник

Един перфектно оборудван HDTV приемник

Пълна спътникова таблица на SateoDX

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Receiver Blind Scan Super Cepat

Laporan Uji ARION AF-4000HDCI
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Szupergyors vakasztató beltéri vevőegység

Teszt beszámló Techno Trend Smart TV S100
A láthatatlan műholdvevőegység

Teszt beszámló ARION AF-4000HDCI

Egy kitűnően felszerelt HDTV beltéri vevőegység

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In Prova Techno Trend Smart TV S100
Ricevitore Satellitare Invisibile

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测试报告 ARION AF-4000HDCI

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Dear Readers



In this issue of TELE-satellite we show you a miniature receiver which is so small you don't have to put it somewhere, but merely need to plug it in. What a smart idea, but still I wonder why nobody has come up with it before. Actually, because nobody ever bothered to scale down the size of the individual components to such an extent. Which again triggers the question how many similarly brilliant ideas exist out there with nobody having put them to use yet. There must be more, right?

Maybe one of the reasons is that some products bear a wrong name. Even words can create divisions and create obstacles for innovative ideas. Take the word set-top box, for example. In TELE-satellite, we generally use the word receiver, even though in the satellite industry the term set-top box has become quite prominent. So what does set-top box mean? Literally, it's a box that is put on top of something. So far so good, but the term was coined at a time when TV sets were huge boxes that indeed provided enough space to put something on top. But what about today's flat-screen TVs? Try putting a set-top box on top your plasma screen. In actual fact, set-top boxes are usually put underneath in

one of the shelves of the TV cabinet. So strictly speaking, set-bottom box would be the correct name for a receiver.

Let's look again at the miniature receiver that I just mentioned above. It is still a box, but neither top nor bottom, but rather rear – and it's not for setting somewhere, but for plugging into something. Think it through and you'll agree that TELE-satellite is perfectly right in calling a satellite receiver what it is: a satellite receiver. Because people speaking of set-top boxes all the time may have a hard time imagining that other concepts are possible as well.

Terms and words as well as their meaning should be questioned from time to time. After all, this may lead to new ideas.

**Yours,
Alexander Wiese**

PS: My favourite radio station this month: "Suryan Radio" on HOTBIRD 13E (10.949V27500), playing pop music from India – a lot of music, little talk. Only the audio quality is less than perfect.

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- 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.

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Aspect Ratio – Isn't This Simple?

Jacek Pawlowski

Aspect ratio is the ratio of image width to image height. Although over decades, many different values were in use, ranging from 1.19:1 to as much as 4:1, we practically meet only two of them in digital TV - 1.33:1 (or 4:3) and 1.56:1 (or 16:9).

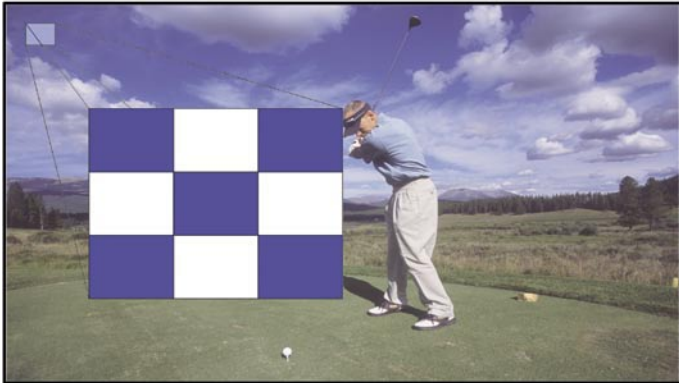
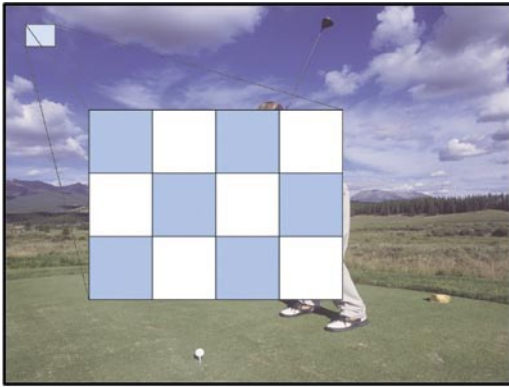


Figure 1. Aspect ratios of SDTV, widescreen SDTV and HDTV. The magnified portion of a screen shows the size and shape of the pixels.

Standard definition TV (SDTV) is mostly transmitted in 4:3 format but sometimes you may find the widescreen SDTV signal which has 16:9 aspect ratio. The latter, despite having the same aspect ratio, is not equivalent to HDTV! This is illustrated in figure 1. As you can see, much more pixels are transmitted for the same screen area in HDTV in comparison with widescreen SDTV. In other words, the widescreen SDTV has the same aspect ratio but much worse picture resolution than HDTV. Moreover, while for the 4:3 SDTV and 16:9 HDTV a pixel is almost perfectly squared, the widescreen SDTV uses horizontally stretched pixels.

How signals of different aspect ratios are displayed on our TV-set? It depends on the setting of the set-top-box (STB) and the TV-set itself. Let's examine different cases.

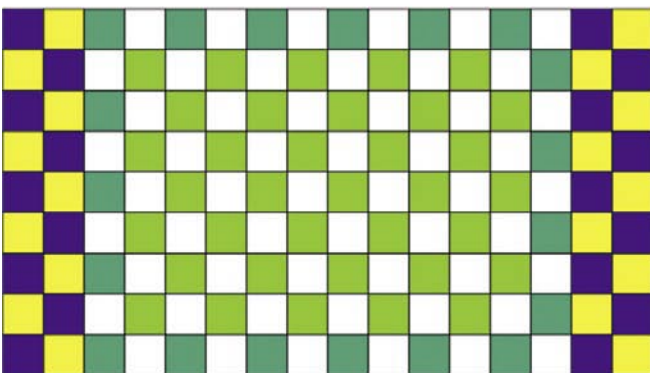
to know that Pan & Scan not necessarily shows the central part of the original picture (as show in figure 2).

While coding digital signal, it is possible to include the coordinates of the most important part of the screen. So we may see either a central part or a part more to the left or more to the right.

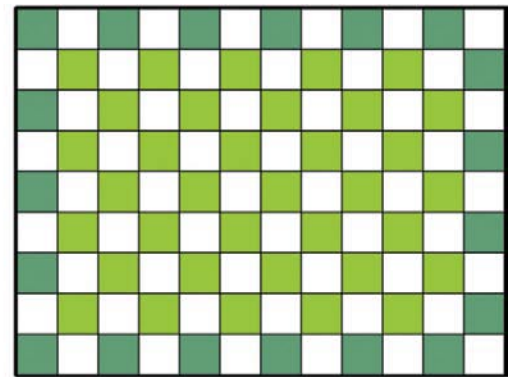
It works automatically – we do not feel it.

However, if you do not believe me, just put a 4:3 TV set over the 16:9 set and observe both while tuned to the 16:9 signal. Of course it will be much easier if both sets have exactly the same picture height.

We are waiting for your photographs of Pan & Scan in action!



STB setting: Pan & Scan →



STB setting: Letterbox →

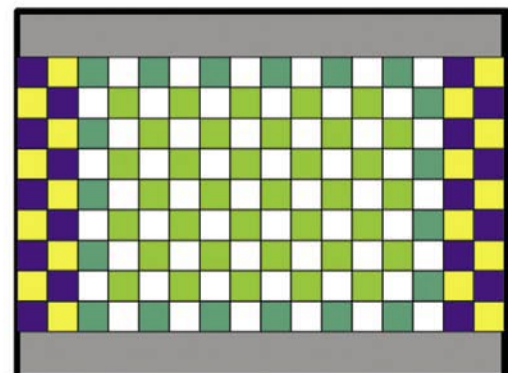


Figure 2. 16:9 signal seen on 4:3 TV-set.

16:9 signal on 4:3 TV-set

Traditional 4:3 TV-sets usually do not have any signal processing related

to aspect ratio. So what we see depends on the incoming signal and the setting of the receiver.

Figure 2 shows the 2 settings that we can make in our set-top-box: Pan & Scan

or Letterbox. Letterbox results in black horizontal bars above and below the picture, while Pan & Scan shows only part of the picture (but without those annoying bars). It is worth



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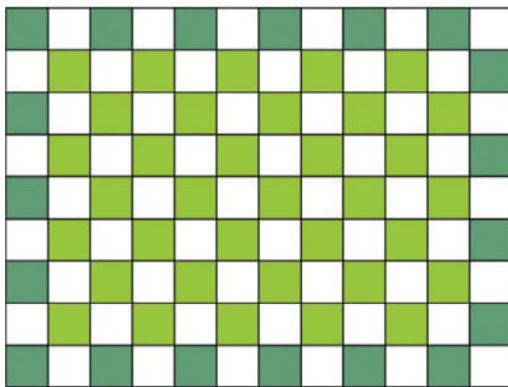
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- IR Remote Control
- 3 Digit LED Display
- Software Limit Protection



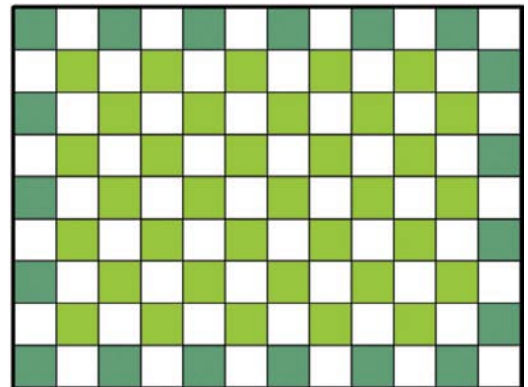
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4:3 signal on 4:3 TV-set

Why consider 4:3 on 4:3? Of course if the signal is really 4:3 – there is no problem. We see it properly on our traditional TV-sets. The majority of the satellite channels still transmit

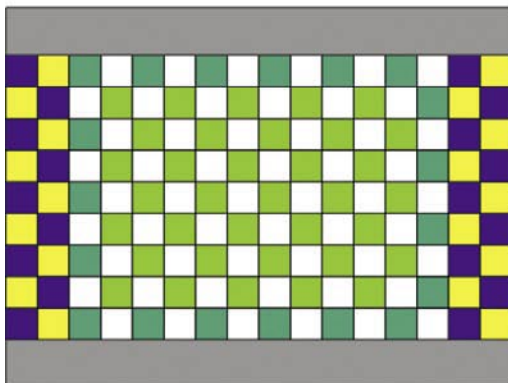
such signals. However, it happens that a widescreen cinema movie is transmitted as the 4:3 signal. See figure 3. If a 4:3 signal already contains black bars, we will see them on the 4:3 TV-set no matter what setting we make in the satellite receiver. You must have seen this situation on analog TV before. It is not quite fair of the providers to serve such content



4:3 signal on 16:9 TV-set

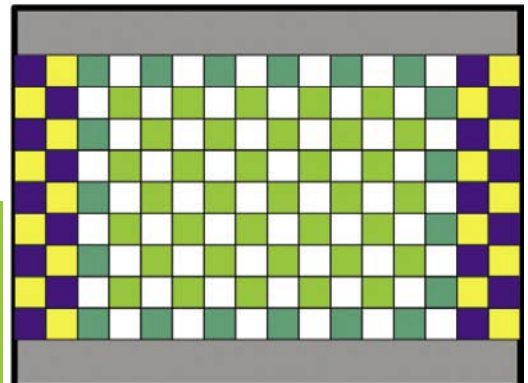
And now the trickier part. We have the modern flat screen one or not so modern CRT type but with 16:9 aspect ratio and signal does not match it.

Any STB setting



via digital TV but if the same signal is still used for the terrestrial analog TV and retransmitted digitally via satellite, we may forgive them.

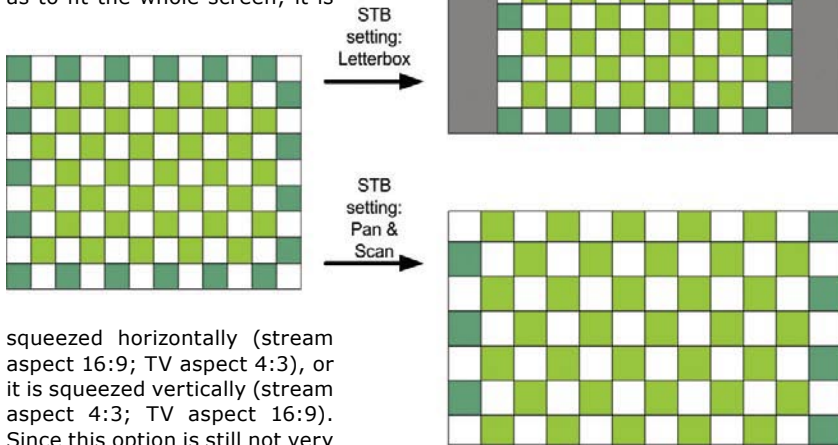
Figure 3. If a 4:3 signal already contains black bars (after conversion from a cinema movie), we will see them on the 4:3 TV-set no matter what setting we make.



I tried to show the various pictures we can produce by playing with the receiver and TV-set settings.

While the name of the functions may differ from model to model, basically every set-top-box has 2 options: Letterbox and Pan & Scan.

Some STB's have the Full Screen mode in which picture is transformed in such a way as to fit the whole screen; it is



squeezed horizontally (stream aspect 16:9; TV aspect 4:3), or it is squeezed vertically (stream aspect 4:3; TV aspect 16:9). Since this option is still not very often used, I did not prepare a drawing showing this.

Most commonly, a TV-set can play the signal without any processing (the second column in figure 4) or stretch or zoom it (the third column in figure 4). Most of the users will probably

+ Zoom (not shown on the figure). But the picture quality will be worse. That is because we first produce a small picture to enlarge it later in the TV-set. It is always better to produce the bigger picture in the receiver itself.

to time if the incoming signal changes. One general rule that can be said is: use as little as possi-

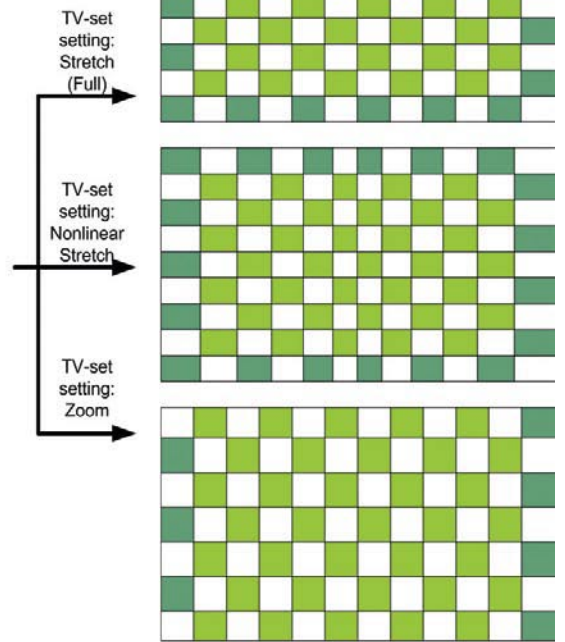
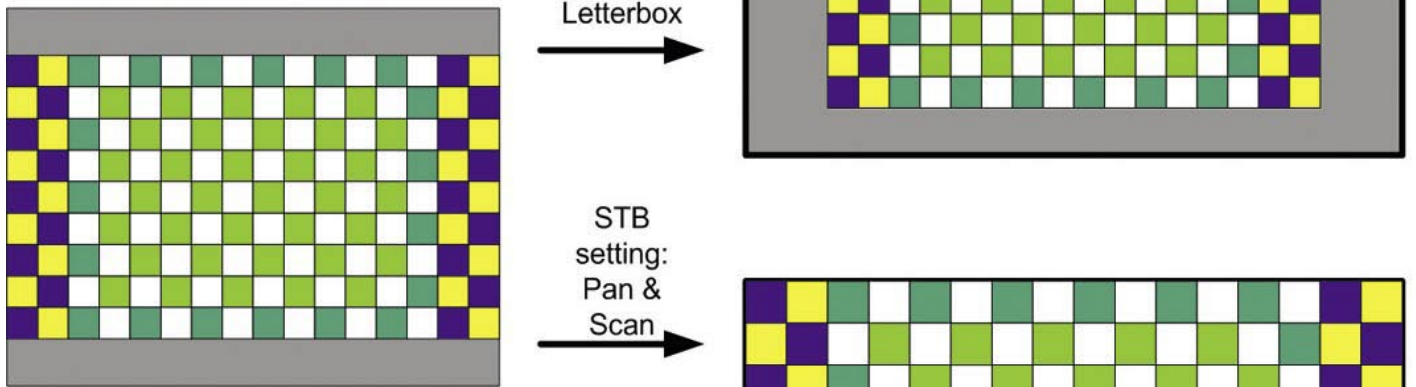


Figure 4. Playing 4:3 signal on 16:9 TV-set.



choose the Letterbox setting in the receiver and non-linear stretch in the TV-set. The picture will be distorted but mainly on the left and right edges not in the center.

However this will not be optimal if the 4:3 signal is a conversion of a widescreen movie – see the bottom part of the drawing. In such situation, the most optimal setting is Pan & Scan in the receiver and normal mode in the TV-set.

Apparently the similar effect can we get by using Letterbox

Conclusion

So, how should we configure our receiver and TV-set? There is not one perfect setting suitable for all signals. Moreover it also depends whether the black (or grey) bars annoy you or not. For example, you may accept them if the TV-set is really big and your preference is to have the picture as close to the original as possible. After all, who likes to see a bloated and fat Miss World? Well, some women, maybe...

We have to change the STB and TV-set settings from time

to time if the incoming signal changes. One general rule that can be said is: use as little as possible the processing of a TV-set. Let the satellite receiver produce the picture as close to what you want to see as possible. In this way, you will achieve better quality of the picture.

Fortunately, the HDTV signals and HD TV-sets have the matching 16:9 aspect ratio. Once all the channels switch to HDTV, this problem will not exist any more. Let's be patient.

Arion AF-4000HDCI

Perfectly equipped HDTV receiver with a stylish design

The AF-4000HDCI comes in piano-lacquered case in standard rack size (43x27.5x6.3 cm) and sports an extremely easy to read 12-digit display as well as two status LEDs to confirm commands sent by the remote control and to identify a locked tuner signal. The manufacturer has also added two CI slots behind a flap on the right side of the front panel and a total of eight backlit buttons for controlling the receiver without a remote control. To provide an even more appealing look of the front panel the AF-4000HDCI features a vertical blue and dimmable LED bar.



HDTV reception via ASTRA 19.2° East |

Turn the receiver around and you'll discover a perfectly equipped rear panel, providing the standard satellite input and loop-through output, HDMI, 2 scart euroconnectors, 3 RCA sockets for stereo audio and video, 3 RCA sockets for YPbPr, an optical digital audio output as well as an RS-232 interface for updating the receiver's operating software. Thanks to the AF-4000HDCI's extraordinarily silent fan, which is controlled automatically, there is no need for ventilation slots on the upper side of the case. There is even a mechanical power switch to round off the brilliant overall picture of this product.

The remote control takes a bit to get used to, as it is sur-

prisingly big. However, once you get used to its ergonomic design and the layout of all the keys you wouldn't want to do without it anymore.

What's more, the remote control can be used to address existing TV sets, VCRs or DVD players and the operating manual lists a multitude of different manufacturers' codes to program the remote so that after a minute or two we were able to control the LCD TV in our editorial office with the ARION remote control.

Speaking of the operating manual, even absolute beginners should manage to master this HDTV receiver with the help of all the comprehensive and easy-to-understand

instructions, complete with useful illustrations.

Everyday use

When we turned it on for the first time, it became evident that our test unit had been designed for the German speaking market, as it features pre-arranged channel lists for use in Germany, Austria or Switzerland. But Arion offers pre-arranged channel lists for other markets as well.

All free-to-air and encrypted HDTV channels which can be received in Europe are saved in a separate favourites list.

In case you're not entirely happy with some default settings all you need to do is open the easy-to-navigate main

menu and personalise the receiver to your liking. Altogether, you can choose from 23 languages for the OSD (English, French, German, Italian, Spanish, Portuguese, Russian, Dutch, Danish, Swedish, Finnish, Polish, Slavic, Hungarian, Czech, Slovenian, Rumanian, Greek, Turkish and Farsi).

If you prefer not to connect the AF-4000HDCI to your TV using HDMI you can manually select the output signal type (RGB or CVBS) as well as the aspect ratio and the colour system.

When changing between PAL and NTSC the receiver issues a warning stating that there is a risk of no image being displayed anymore if the TV set



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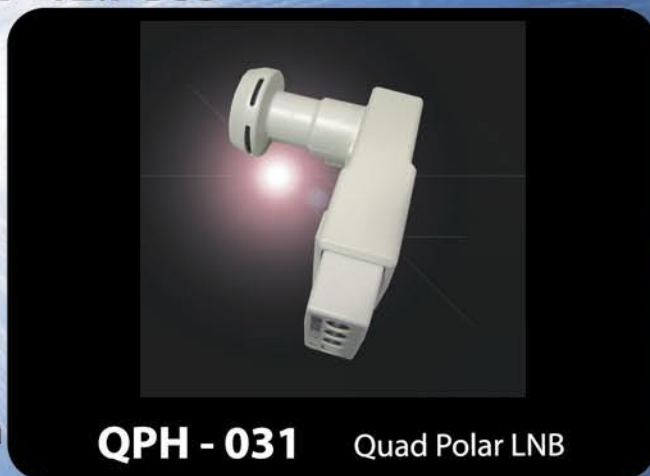
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switched on transponders can be deleted or added in next to no time. So now's the time to fill the receiver's transponder list with channels, which is done with an automatic channel search. We tested the unit on an 80-transponder satellite and clocked a little over ten minutes for a complete channel search.

In addition to the standard search mode you can activate the network mode or a manual search, while pros can search for channels using the relevant PID values. The only negative aspect of what is in general a perfect channel search mode is the limited capacity of the channel memory. No more than 4000 TV and radio chan-

the current and next event as well as additional icons indicating teletext, subtitles, Dolby Digital audio, channel options and the aspect ratio of the currently selected channel.

As with all other HDTV receivers, the AF-4000HDCI is able to put out the video signal via HDMI in 576p, 720p or 1080i. These three modes as well as the aspect ratio can be selected with a dedicated key on the remote control, which we believe to be a very handy solution. Thus it is perfectly possible to watch HDTV channels using 1080i while regular SDTV channels are set at 720p, for example.

Zapping means fun with

used cannot process the particular colour system. We appreciate this extra information, as we keep receiving calls from desperate readers who have – deliberately or not – made these changes only to be left with a blank screen.

The digital audio signal is available as Dolby Digital or PCM and thus should provide an appropriate signal for every

Thankfully, this HDTV receiver is compatible with all DiSEqC protocols, i.e. 1.0, 1.1, 1.2 and 1.3 (USALS), which means it works perfectly with a rotary motor antenna just as well as with a 16-LNB multi-fed antenna.

The satellite list comprises 76 European and Asian C and Ku band satellites, each with current transponder data. If



kind of home theatre system. In line with other current digital receivers the AF-4000HDCI is able to sync its internal clock with the time signal transmitted via satellite. In addition, it is possible to automatically switch to daylight saving time and even to set the dates on which the switch to DST and back will be performed.

Once all basic settings are completed according to your personal preferences the receiver needs some information regarding the reception setup used. If you live in Europe and use the widely popular ASTRA 19.2° East antenna you're all set because the Arion receiver is pre-configured for exactly that setup.

If your equipment is different, then simply enter the antenna setup menu and change the settings accordingly.

that's not enough, five additional birds may be added manually.

Thanks to the huge variety of pre-programmed or manually selectable LOF values the AF-4000HDCI is a match for virtually any available LNB. Even an S band antenna is possible, if you so desire. The up-to-date transponder list can be edited for each single satellite at the touch of a button, which means that deactivated or newly

channels can be stored, which we believe simply isn't enough when taking into account the two CI slots and the available motor control. Arion should definitely address and solve this issue.

Press the EXIT key now to switch to the first channel on the list, once all initial setting and the channel search are completed. The AF-4000HDCI inserts a well-arranged info bar with information regarding

this Arion receiver, as it takes a little less than a second to switch from one channel to the next. Only when the new channel broadcasts a HDTV signal does it take slightly longer.

We tested the receiver with a Samsung 40" LCD screen and were truly impressed with the video quality provided by the HDMI connection. Even SDTV channels were presented with remarkable quality and the scart euroconnector also pro-



Info bar |



Clearly arranged main menu |



vided a correct picture. It's a shame that the number of free-to-air HDTV channels in Europe is still rather limited, so it's all the more important that all standard CI modules can be used with the receiver. While we experienced problems with the pre-installed software at first, company Satforce provided us with an improved version during our test which solved all issues we discovered in the beginning. We were then able to successfully receive and test the HDTV offering of various European providers and in addition, all standard Irdeto, Viaccess, Cryptoworks and Conax modules worked flawlessly with the AF-4000HDCI.

A low-threshold tuner is just as valuable as reliable CI support, so that the weak BBC signals from ASTRA 28.2° East can be received as well. The Arion AF-4000HDCI mastered this task brilliantly, too. While the weak horizontal transponders of NILESAT 7° West came in effortlessly at our test site in Vienna, our Munich test centre was happy to report flawless reception of ASTRA 28.2° East.

Low symbol rates could not upset the Arion receiver, even though the technical specifications published by Arion (DVB 1~45 Ms/s and DVB-S2 10~30 Ms/s) were not fully met in our tests. It was only for symbol

rates of 1.6 Ms/s and higher that the tuner was able to lock a signal. However, this is the case for the huge majority of competing models as well and many manufacturers therefore specify 2~45 Ms/s in their datasheets.

By the way, the AF-4000HDCI supports the required modulation types QPSK and 8PSK for both DVB and DVB-S2 reception.

The perfect overall impression of this receiver is complemented by a number of additional features. For instance, you can save the channel list and all settings in the internal memory. If you happen to mess up your channel list or to delete one of your favourite channels at some stage you simply load the existing configuration from the internal memory and undo any damage you may have caused.

Software updates can be loaded through the RS-232 interface from a PC or directly via satellite. We couldn't ask for more. In case your TV set at home does not feature teletext simply use the internal decoder of the AF-4000HDCI. In addition, an organiser and a calendar are at your disposal.

Arion has scored a really huge success with the AF-4000HDCI!

Expert Opinion

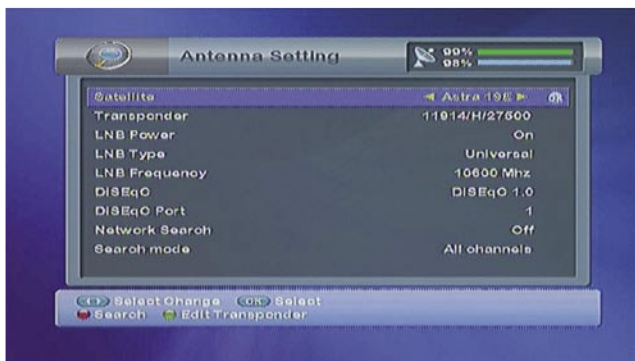


+
A design that is elegant and pleasing to the eye, a wide range of features, technically sophisticated hardware, and a clever user interface. Combine all this and you get a receiver that will make any newbie happy as well as please any pro with its endless possibilities.

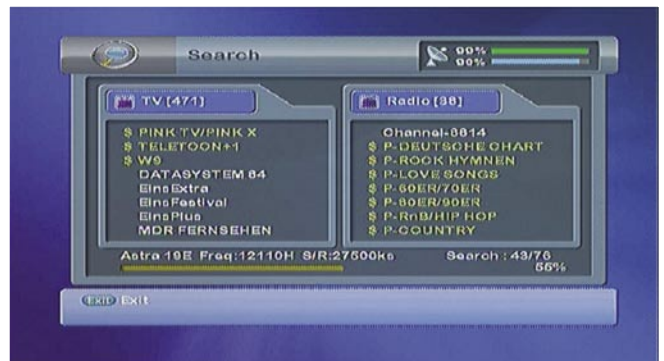
-
The memory with capacity for only 4000 entries should be expanded.

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
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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 €
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Technotrend Scart TV S102 (DVB-S)	DVB-S	119.90 €
Technotrend Scart TV S102 (DVB-S) incl. Premiere Flex € 25	DVB-S	137.99 €
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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 €
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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 €
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NanoXX 9400

A remarkable blind scan receiver

This pretty silver-coloured satellite receiver with the name NanoXX 9400 has a very compact size. Not too big, but big enough to fit in all important sockets and jacks – including two smart

euroconnectors – on the back panel. On the front this receiver sports the standard control keys plus two CI slots and two smartcard slots (licensed for Conax and X-Crypt) which can easily be accessed.

When we began testing the box we almost feared that its looks are deceiving in this case, because once we had unpacked and turned on the receiver there was no way we could leave the installation menu. However, there was a simple reason behind that: the NanoXX 9400 is shipped without pre-stored channels, so the first thing you have to do is select a satellite and start the transponder search. After that, all your expectations are met and the first channel on the list happily appears on the screen.

Actually, most expectations are not only met but also exceeded because the picture can be zoomed in or even six different channels can be displayed on the screen. The info bar doesn't only reveal the channel name but also the current time, the date, the current and next program event, signal quality and a bunch of other useful information such as encryption used (if any) and the availability of teletext, program information and an EPG. After five seconds – or whatever period

you select – the info bar disappears, yet can be activated again at any time with pressing the Info button. Pressing the same button a second time will display detailed program information to scroll through, which stays on screen until it is deactivated. Pressing the Info button a third time reveals in-depth technical data regarding the current transponder and the data stream.

The electronic program guide (EPG) is of the comprehensive kind as well. Altogether four channels are displayed with their current and following events of up to one week in advance, including detailed program information. We were delighted that all data appeared on screen without a noticeable delay! The arrow buttons can be used to access the appropriate EPG data and a single touch of a button is all that is required to mark an event for the internal timer – what a change from the analog days when setting a timer was almost like rocket science.

Using teletext is just as much fun as all pages are read and stored after an initial touch of the Teletext button and are ready for reading right away. Subpages, however, only show up one at a time, even though

this is not a shortcoming of the NanoXX box but the result of TV stations transmitting only one subpage with every complete teletext run.

Channel search is exemplary and for a quick and easy start we recommend the automatic search which uses the transponders that are pre-stored in the receiver and only takes about two minutes for each satellite. For an in-depth scan you can select individual transponders for a manual search, the NanoXX allowing editing or changing transponder parameters before initiating a scan.

What sets this product apart from many others is its sophisticated blind scan function. With this feature all required channel data is searched for automatically. It is even possible to define search steps between 1 and 5 MHz, which of course is a big factor in the overall time a scan takes. In general, this receiver moves on the fast lane, as evidenced by a scan of the Hotbird satellite using steps of 4 MHz, which only took about ten minutes.

The NanoXX box has a lower than average threshold level so that a 60 cm dish in Europe will provide a good enough signal even during bad weather. On the down side, the low thresh-



Stream information (new numbering) |



USB update using a memory stick |



Installation menu |



Antenna Settings |





Satellite Dish & Cable TV Products



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INFOSAT Signal Level Meter

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old level can result in too many signals being detected. Unfortunately, the blind scan mode does not recognise the satellite ID so that channels on neighbouring satellites are stored as duplicates.

Because of this the channel list has to be edited manually

after a blind scan search, all the more so because currently a search for FTA channels will also yield some encrypted channels and store these in the TV channel list. The same happens with data channels, which occasionally appear on the radio list.

Expert opinion



Heinz Koppitz
TELE-satellite
Test Center
Germany

- +** A receiver featuring state-of-the-art technology that won't leave much to be desired. Large channel memory and fast performance
- Efficient blind scan mode
- Full DiSEqC range
- Smooth upgrades with USB memory stick

- Search and sorting features need to be improved
- Motor control a little slow at times

TECHNIC DATA

Supplier	NanoXX www.nanoxx.info
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

Channels can be moved or deleted with the integrated editor, yet this is a tiresome task. A suitable PC application available for download from www.nanoxx.info does a much nicer job.

The channel memory is more than sufficient, providing capacity for 8.000 TV and radio channels and 2.800 transponders. TV and radio stations are in separate lists and nine favourites lists (for TV and radio each) can be fully customised to one's own requirements.

The receiver is also perfectly equipped for multifeed antennas or rotating dishes, featuring all DiSEqC 1 protocols including DiSEqC 1.1. This way the box can switch between 16 different antenna signals. Rotating dishes can be aligned using DiSEqC 1.2 or Goto X, or are controlled fully automatically using the USALS menu. Each pre-stored satellite then can be individually addressed and its channels are displayed in separate lists.

To top everything off, we discovered a handy innovation which caused quite a stir in our office: operating system updates are transmitted via USB, which is faster and more efficient than everything we have seen so far. To that end the receiver features a USB interface to take in a USB memory stick. The PC is only needed to download the upgrade from the NanoXX website and save the file(s) onto the stick. After plugging the stick on the receiver's USB interface the upgrade installation can be started with a simple command on the on-screen menu. In addition to the latest operating software the USB stick solution can even update complete channels lists.

What's more, JPG images on the memory stick can be presented on the TV using the photo show feature, even though there is a limit of 1 MB to the size of the files.



Renaming a favourite



USALS Menu



EPG of BBC2 (TV)



Czech weather report



Alphabetical channel list



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What is blind scan?

Each satellite broadcasts a multitude of transmission channels. And because each transmission channel broadcasts not only one but several TV and radio channels it is called a transponder. For differentiating between the individual TV and radio channels a satellite receiver needs to know the frequency and polarisation (horizontal/vertical) of the transponder as well as additional information regarding the individual channels transmitted via a transponder. This is the only way a receiver can pick out what it needs from the data stream.

Receivers sold these days only need the frequency, the polarisation and the symbol rate to identify a transponder and detect

all channels transmitted by that transponder. However, these three values have to be stored in the receiver in the first place which is why receivers come with pre-set data regarding transponders. Unfortunately, however, these lists become out-of-date rather quickly because TV and radio channels sometimes switch frequencies, and even more frequently the symbol rates are changed. If this happens the receiver cannot find the channels any longer and the new data has to be researched on the Internet and manually be set in the receiver.

Transponder lists available on the Internet can greatly facilitate this job – our com-

prehensive SatcoDX list is a prime example for such an assisting tool. With the help of editing software the channels can be managed conveniently on the PC, but it is still work you have to do manually.

Blind scan receivers do not need any data input. They are able to identify all active transponders, the frequency band and all other parameter automatically and thus always have up-to-date transponder and channel lists in their memory. This makes blind scan the best search method for setting up a new satellite reception system. In addition, blind scan allows to always update the current offering of channels.



TechnoTrend Scart TV S100

Small, smaller, TechnoTrend Scart TV!

What a sensation: The first invisible satellite receiver has arrived. How can it be invisible? Because the TechnoTrend Scart TV100 can be plugged into the scart euroconnector on the back of the TV and thus is completely out of view in the living room. Even though, the little box (55 x 22 x 100 mm) is stuffed with all the features we expect from a modern digital satellite receiver.

The receiver comes in two different varieties, one being a FTA receiver and the other one featuring an integrated card reader which is compatible with either Nagravision being used by German pay TV provider Premiere, or Cryptoworks, the encryption system adopted by Austrian public broadcaster ORF. In addition, the version with built in card reader comes with an optical audio output, which is missing in the FTA version. The unit we tested was the Scart TV S100, which is the FTA model.

When looking at the receiver for the first time it's really hard to believe that TechnoTrend was actually able to squeeze all the hardware components into such a tiny box. While the golden scart euroconnector is the striking characteristic on one side, the back side sports the socket for the external power pack and IR receiver, while the satellite IF input is located on the side of the receiver. The version with integrated card reader also has the card slot as well as an optical audio output.

The system comes complete with a remote control which is unusually flat, yet sits well in your hand and allows controlling the receiver quite comfortably.

The printed user manual is available in English and German and explains all installation steps in a comprehensive way, complemented by numerous illustrations.

We have come used to TechnoTrend offering well-built and solid products, and this miniature receiver is no exception.

Everyday use

Before turning on the TechnoTrend Scart TV for the first time it's wise to find a suitable position for the external IR receiver to make sure the box can actually receive all the commands sent by the remote control. The IR receiver is also equipped with two LEDs indicating the operating status of the Scart TV S100 and confirming commands sent by the remote control.

Next, all you have to do is plug the box into any available scart socket, connect the antenna cable and the power cord and turn it on. If there is limited room for the box next to the scart socket you may as well use the included extension cable and find another spot.

Once the box is switched on for the first time the TV will display the installation wizard which starts with asking for the desired language for the on-screen menu. Next to German, English and French you can choose Italian, Spanish, Portuguese, Swedish, Finnish, Danish, Turkish, Polish, Czech, Russian and Greek.

Next, the current location (which is important for setting the correct time), the aspect ratio of the TV screen (4:3 or 16:9) as well as the video output type (RGB, CVBS or S-



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Note

Bild	25 %	1,7
Ton	15 %	1,7
Ausstattung	20 %	1,9
Verarbeitung	10 %	1,9
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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even though hardly everyone will use this feature because the satellite list cannot be extended.

C band reception is possible and respective transponder data (for example THOR 1° West) are partly pre-set. The last step of the installation wizard is the automatic channels search, which can either be a full search or a search of individual satellites or for FTA or encrypted channels.

Once all initial settings are completed the receiver switches to the first channel of the list and also displays a comprehensive and easy-to-read info bar which includes information on the current and next program events. Pressing the EPG button will display a very convenient and perfectly working EPG and with the touch of a button a timer entry can be created for switching on the receiver for a specific program event.

The full channel list is accessed with the OK button. However, there is no option to sort the channels alphabetically or according to service providers - this can only be done in the main menu. On the bright side, though, a specific submenu can be used to conveniently customise the full channel list.

In order to make this procedure even easier the Scart TV S100 has a very smart function for filtering the channel lists. Several categories such as CAS/FTA, provider or satellite are available so that only those channels are displayed that you'd like to edit or move to a favourites list. For complex lists consisting of several hundred channels this is a Godsend.

The main menu allows some

additional settings to be made which the initial installation wizard does not include. For example it can be selected whether the internal teletext decoder or the TV's decoder is to be used or which colour the OSD inserts should have.

Thanks to AFD the Scart TV S100 detects aspect ratios that differ from the pre-defined screen ratio, which can be reformatted automatically to fit your screen.

New channels can be added in a breeze with a manual search, but unfortunately there is no way to enter a PID manually, a feature needed by the enthusiasts and DXers. Altogether the channel memory can hold up to 4,000 channels, which is more than enough for a FTA receiver.

Another convenient feature deserving special praise is the child lock with a PIN for channels that are unsuitable for children. In addition, the whole receiver or the main menu can be locked with a PIN as well.

The Scart TV S100 switches channels reasonably fast, taking approximately one second. The time it takes for a channel search is also about average with slightly over ten minutes for an 80-transponder satellite.

The tuner has a low threshold and was able to detect and tune into weaker signals as well, for example on ARABSAT 26° East, NILESAT 7° West or LMI1 75° East.

Even though this box has not been designed with techno-addicts and DXers in mind it did a good job in our symbol rate test and was able to lock into our narrowband test transponder with a symbol rate of 2 MS/s flawlessly. Below this rate

Video) have to be determined before the Scart TV S100 inserts the menu for the LNB settings.

Unfortunately the receiver only supports DiSEqC 1.0 or toneburst, so if you own a rotating dish which needs to be controlled using DiSEqC 1.2 or 1.3 (USALS) or a multifeed antenna with more than four LNBs you'll be out of luck with this cute little box. What we liked, however, is the fact that up to three repeti-

tions of DiSEqC commands can be activated which is a great help for avoiding switches not being performed properly.

The pre-stored satellite list comprises the most important European DTH satellites (17 positions in total). Considering the missing DiSEqC 1.1, 1.2 and 1.3 protocols this number of satellites is sufficient.

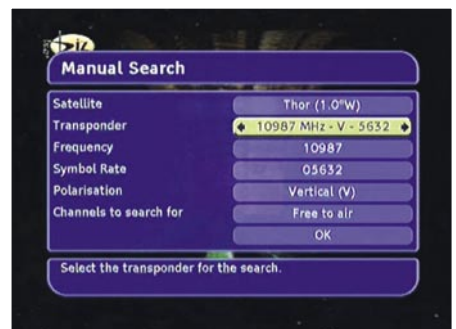
LOF frequencies can individually edited for each satellite,



SCPC Reception of TURKSAT 42° east |



Main Menu |



Manual Channel Search |

level, however, no signals came in.

The remarkably good overall impression of the Scart TV

S100 is rounded off by an automatic software upgrade via satellite, which will keep the receiver up-to-date and fit for the future.

Expert Opinion

+

The TechnoTrend Scart TV S100 is a tiny digital receiver which works just as well as its larger siblings. The manufacturer has proven that size does not matter as much as core values. The receiver is easy to use and should please all family members no matter what their age.



Thomas Haring
TELE-satellite
Test Center
Austria

-

Unfortunately, the Scart TV S100 is not compatible with the DiSEqC 1.1, 1.2 and 1.3 (USALS) protocols. We would also like a more comprehensive satellite list and the possibility to add satellites manually.

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



Info Bar



EPG

Digital SAT-Analyzer & Positions-Finder SF 3010 D



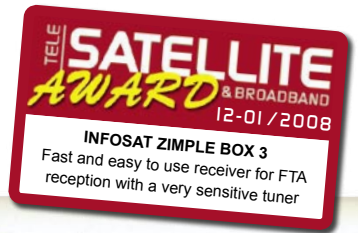
To calibrate & adjust your dishes

- easy to use
- exact and accurate
- DiSEqC 1.0
- programmable

SPAUN//electronic

INFOSAT Zimple Box 3

A simple receiver with blind scan capabilities



The first thing that impressed us when we first opened the parcel that contained the Zimple Box 3 receiver, was its compact size. The test box was a silver receiver with some Thai letters on the right side of the front panel. We could also spot the Stand-by button as well as another two buttons that allow to change channels without the use of the remote. A three digit seven segment display gives information about the channel number, and when the info button on the remote control was pressed, it showed the signal quality percentage. A signal level bar on the right side was also useful as it presented the signal quality.

comes in handy the embedded RS232 port, as it's the only way to upgrade the firmware and install updated settings.

NTSC, OSD color and transparency, and even enable the shut down timer so that the receiver will turn off automatically after a desired time.

The remote control is in a black color and with an ergonomic style it's easy to use. Its infrared transmission is so powerful that there is no need to aim it directly at the receiver - you can even point it to another direction and it will work.

In the Tools section information about the firmware of Zimple box can be seen, as well as information about the current channel like transponder, frequency and signal strength. The Satellite Guide menu is a useful tool for setting the dish



At the rear panel we found the usual LNB input, but without a loop-through output. Three RCA plugs feature the video output as well as the right and left audio signals, and are used to connect the receiver to a TV. An additional video output can be used to connect to a videorecorder. A main power switch was also present, which is useful to reduce the power consumption to a minimum when the receiver is not used.

As the number of satellites and transponders is growing, it would be nice to use a simple way to update the receiver's database quickly and correctly. Here

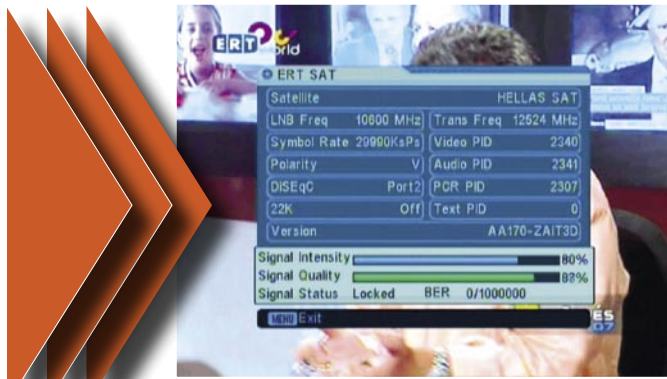
Getting Started

When we turned on the receiver for the first time, Zimple box 3 was already configured. To check its factory settings, we applied the default settings, which changed the language in all menus into Thai. Some satellites that mainly broadcast East Asian programs were already installed.

Infosats' Zimple box 3 supports Thai, Chinese and English menu languages. Going through the system menu, you can configure the language, video output to either PAL or



to a specific satellite. Fill in the information about your longitude, latitude and satellite longitude, and the guide will provide you with the azimuth



Information menu |



Nine pictures |

and elevation to setup your dish. In the Tools menu you will also find the usual Default settings, Game, Software upgrade, calendar, and calculator.

Installation and Blind Scan

Diseqc 1.0 and 1.2 are fully supported which means that



up to four LNBs or a Diseqc 1.2 antenna motor can be connected and controlled by the receiver. Adding new satellites to the already installed ones is not a big deal. Just enter the name of the desired satellite, select LNB port and then you can either manually add transponders or call the blind scan function to scan for transponders and channels. The receivers channel scan speed is more than good. Zimple

with already installed 77 transponders, Zimple box managed to complete the scan for both FTA and Encrypted channels in 1 minute and 22 seconds.

The Zimple Box 3 even has a very convenient and easy to use function for a quick Blind Scan: press 'Exit' on the remote control for 5 seconds, then a menu will appear asking "Blind Scan or not?" and after confirming "FTA or CAS". After pressing OK the scan starts immediately. Quite a handy feature!

The receiver has a very sensitive tuner and this was experienced when we compared it with another three receivers and the Zimple box was able to produce a clear image despite very poor signal quality, when other boxes hardly produced mosaics. Zimple box was able to lock almost immediately to frequencies with low symbol rates proving its SCPS compatibility.

Everyday use

Zimple box 3 is outputting a very sharp picture. That was noticed when we watched Skai TV on Hellasat and in comparison to the other three receivers that were tested. Switching between channels is fast and doesn't take more than a second for channels within same transponder. When switching between different transponders it's a bit more than a second.



box 3 needed only 5 minutes and 57 seconds in blind scan mode to find active transponders and to download the channels. In automatic scan mode

By pressing the OK button on the remote, a channel list is revealed. Navigation through the channels is easy by using Up and Down buttons and for page

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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

jumping left and right buttons can be used.

Press the 0 button and a nine picture screen will cover your tv monitor, showing nine still pictures of the next neighboring channels in the same satellite, including the one that was playing before showing live. Naviga-

tion in this mosaic is easy and done by using the left, right, up and down arrows in the remote and by pressing ok button.

Editing channels is as usual, and all useful functions are also present in Infosats' Zimple box 3.

Expert Conclusion



+

+ Infosat developed a fast and easy to use receiver for FTA reception with a very sensitive tuner and blind scan. Due to Diseqc 1.2 protocol it can control a motorized system or up to four LNBs. An ideal receiver for everyday use.

- + Fast channel switching
- + main power switch
- + SCPC

-

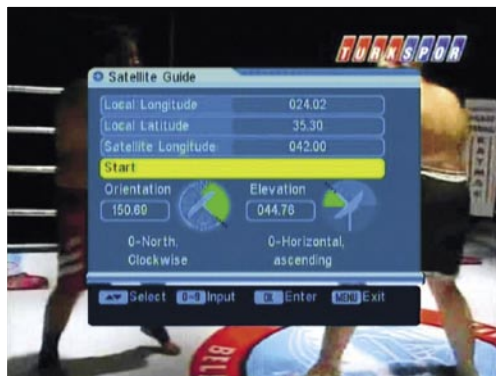
- No EPG
- A loop through output would be useful

TECHNIC DATA

Manufacturer	Infosats, 46(22 Moo.5, Tiwanon Road, Banmai, Pakkred, Nonthaburi, 1120 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



Installation menu |



Satellite guide menu |



Satellite searching |

TELE-satellite Receiver Guide

	Channel Memory	Symbol Rate 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
AB IP Box 250S PVR	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
Arion AF-4000HDCI	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
ARION AF-8000HDCI	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
EYCOS S80.12 HD	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
EYCOS S55.12 PVRH	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
FORTEC STAR MERCURY II	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
JIUZHOU DVS-2018BS Professional Decoder	!	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
JIUZHOU DTS1601	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
MATRIX Planet	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
NanoXX 9400	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
OPENSAT X7000CI	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
TECHNISAT DigitSim S2	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
TECHNISAT DigiPlus STR1	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
TECHNISAT Digit 4S	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
TECHNOTREND S2-3650CI	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
TECHNOTREND TT-micro S320 HDMI	!	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
TOPFIELD TF6000PVRE	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
TOPFIELD TF7700HSCI	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
TOPFIELD TF7700HSCI	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
ZIMPLE BOX 3	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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Good Choice Better Life!



ARION's Path to the Top

Alexander Wiese

We already reported on ARION a year ago; they are a high-quality manufacturer based in South Korea that has in the meantime adopted the slogan above in their marketing campaign. We wanted to know what ARION has been up to in the past year. Back then the first HD receiver appeared on the market. Today, ARION has a new HD box that we are introducing in this issue of TELE-satellite.

Thomas Roh, Director of Sales and Marketing, explained to us, "Here in Seoul we have 20% more employees than we did a year ago." ARION is a brain company, that is, more than half of their employees – currently 70 – work in Research and Development.

Satellite receiver production takes place now mainly in DongGuan, China where there are 200 employees. Thomas is quite optimistic about the future: "For 2007 we expect sales of US\$ 80 million and for 2008 we are confident that we will break the US\$ 100 million barrier."

According to Thomas Roh, "50% of our income come from Europe, 20% from India, 20% from the Middle East and North Africa and 10% from South America and Australia." Thomas explained these numbers: "We are involved not only with the high-end business, but also actively engaged in conquering the Emerging Markets field as well."



▲ Thomas Roh, Director Sales & Marketing Department, in his office. TELE-satellite magazine is always within his reach

The two lower floors of the ARION building are rented out; this would be space for future expansion. All the remaining floors are fully occupied by ARION. Management is on the third floor while the engineers and programmers with all their PCs and analyzers take up the fourth, fifth and sixth floors.

He managed to surprise us with this little tidbit: "We recently opened a sales office in Buenos Aires, Argentina." And that's not all: "We are planning to open offices in South Africa and India." ARION also considers the CIS countries to be an interesting market.

We asked Casey Joo, the Managing Director AV R&D Laboratory, what boxes are providing ARION with this success: "50% of the satellite receivers are CAS embedded while 30% are FTA units."

Thomas Roh told us more, "Even though PVR boxes only make up 20%, they account for 40% of our income." PVR's are becoming more and more important especially those models with external hard drives and a SATA link to the receiver. The data transfer rate to the hard drive needs to be fast in particular when dealing with HD signals. The SATA interface is best suited for this.

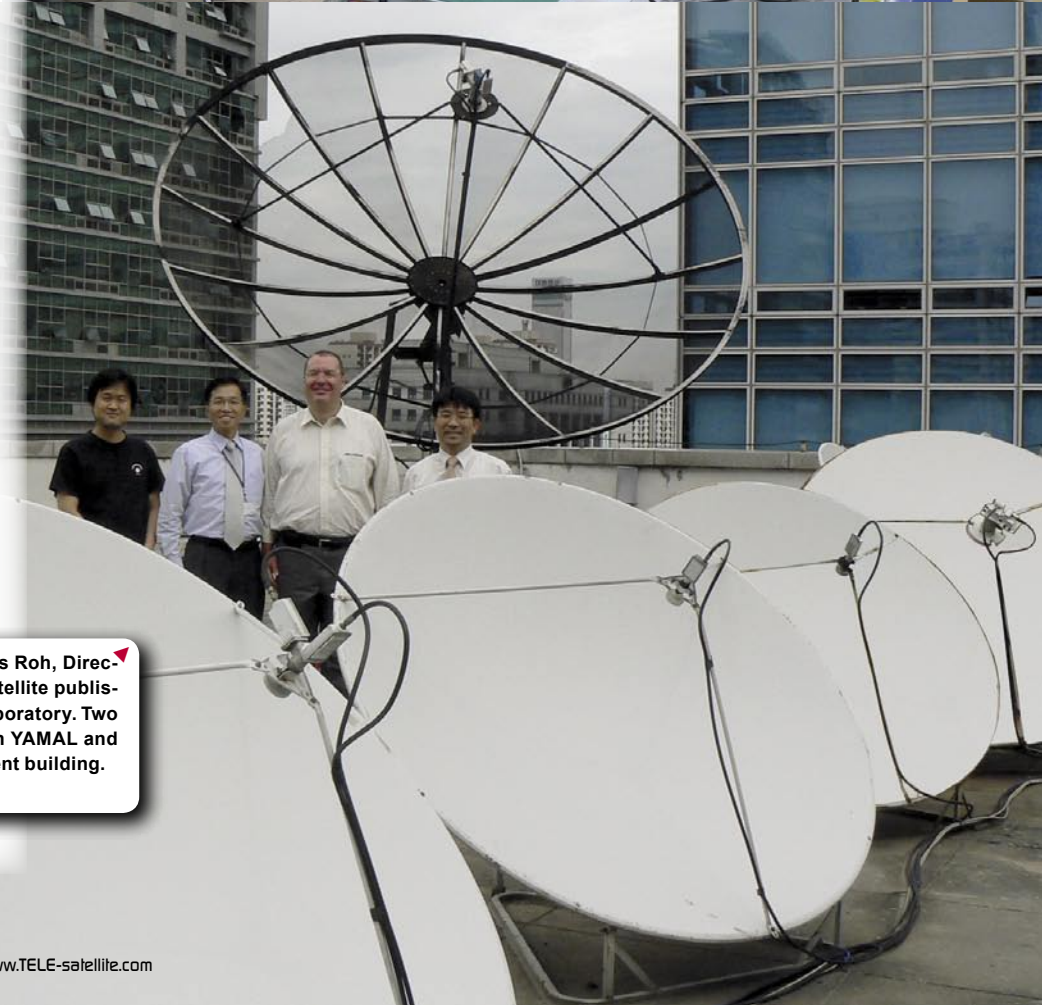
ARION is also busy developing new products. Included would be an ENTAVIO receiver for the German market and an Irdeto embedded Combo for Australian market. Many large cable and satellite TV operators are also customers of ARION, in Ireland, Slovakia, Argentina and India. "We are also working on a HD PVR", explained Casey Joo.

ARION is also working on IPTV. Casey believes the primary market to be internal cable networks. He lists what this would include: "Hotels, hospitals, schools and universities." Another important target is cable TV operators who want triple play service or TPS (CATV, Internet, VoIP) and ARION is responding to the demand with a hybrid IPTV which is scheduled to be on the market in 3rd quarter 2008.

When will the big HD boom finally arrive? We asked Thomas Roh this question and he had a quick answer: "That will be in the 4th Quarter of 2008", just in time for the Christmas season. ARION should know - they produce HD receivers.

A good choice for a better life!

From the left: Philip Lee, Senior engineer, Thomas Roh, Director Sales & Marketing, Alexander Wiese, TELE-satellite publisher and Casey Joo, Managing Director AV R&D Laboratory. Two additional dishes for the reception of the Russian YAMAL and AM EXPRESS satellites are mounted on an adjacent building.





Sam Chang, Senior Marketing Manager, shows us their impressive collection of certificates and awards for some of ARION's outstanding products. He also organizes ARION's trade show visits. He explained, "In 2008 we will be at ANGA and IBC."



Mr. Han is the HD 4000 development manager. The HD 4000 High Definition satellite receiver is introduced in this issue of TELE-satellite.



New products are tested here. Production receivers are also checked here to make sure they operate within specs.

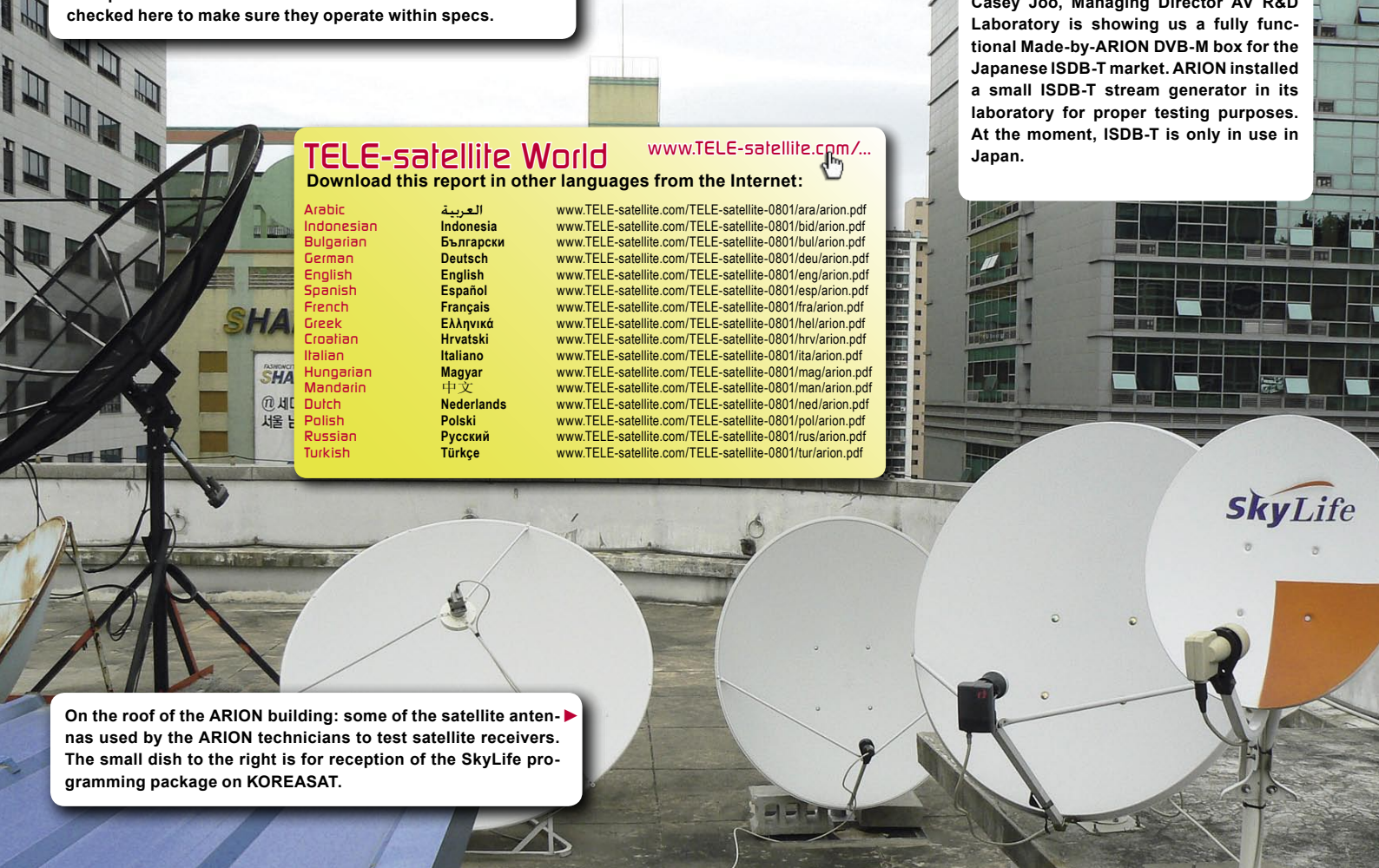


Casey Joo, Managing Director AV R&D Laboratory is showing us a fully functional Made-by-ARION DVB-M box for the Japanese ISDB-T market. ARION installed a small ISDB-T stream generator in its laboratory for proper testing purposes. At the moment, ISDB-T is only in use in Japan.

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On the roof of the ARION building: some of the satellite antennas used by the ARION technicians to test satellite receivers. The small dish to the right is for reception of the SkyLife programming package on KOREASAT.



The Queen and Horizon



▲ Paul Pickering, Owner and Managing Director at Horizon, receives the Queen's Award from Her Majesty.

What do you have to do to be received by Her Majesty the Queen? It's actually quite simple: become the top export company in the country. British manufacturer of measuring instruments HORIZON was given the 'Queen's Award for Enterprise' in international trade in 2007, which was reason enough for TELE-satellite to pay a visit to Horizon again – after exactly one year (see TELE-satellite issue 01/2007).

This time around we're coming to Harlow, in London's North, county of Essex. This is where Horizon's Owner and Managing Director Paul Pickering has bought a plot of land complete with a large warehouse, creating the basis for Horizon's future growth.

As a matter of fact, Horizon has experienced remarkable growth in the past as well, currently boasting twelve employees and also looking for three additional engineers, according to John McLoone, Sales Director of Horizon.

So we'd like to know what's been going on since our last visit, a question which John answers by showing us the recent sales figures: "In 2003 we had a turnover of 3 million GBP, which had increased to 4 million by 2006, and for 2007 we expect 4.5 million, while the forecast for 2008 is 5.5 million GBP."

Horizon is indeed a top export company that creates only 7 percent of its annual turnover in its country of domicile. "The largest share is generated in America", says John and by that he means some 60%. The remaining 33 percent are spread all over the rest of the world. "Emerging markets are making huge leaps forward, for example China, India and Russia," adds John. Cable television is widespread in these countries and the transition to digital requires measuring instruments in



order to roll out of functioning distribution networks. Selling measuring instruments involves a considerable amount of consulting, and this is where the extraordinary after sales service of Horizon comes into play. Not to mention the enormous know-how that is required to develop measuring instruments in the first place. By the way, Horizon's expertise comes with many brand names, as "85 percent of our production is OEM," explains John.

In 2008 Horizon will fire off a whole range of new products. The first quarter will see Horizon's first DVB-C measuring system, and the first DVB-data device, which measures the data rate in the Ka band in 8PSK as offered by Wildblue in North America - the transmission mode is known under the

▲ John McLoone showing the Queen's Award certificate: signed by "Elizabeth The Queen" and Tony Blair.

name 'Turbo.' EUTELSAT is actually transmitting first test broadcasts of this Internet-via-satellite service in Europe as well.

Later, Horizon will introduce its first DVB-S2 measuring system and for the second quarter there is a multimeter for DVB-T and DVB-S2 in store. Also in the pipeline for the second quarter is the Pro Range Series for professionals.

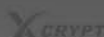
The Queen was absolutely right to honour Horizon. The many activities of this company will help it stay on top for a long time to come!

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



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upgrades via your Internet router



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<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!



▲ Horizon's new company headquarters is now located in Harlow, Essex. The blue flag flying at the gate symbolises the Queen's Award that has been received.



▲ View of the engineering room where measuring instruments are being developed. Front: Gerrard Smallwood, Design Engineer. Back: Paul Hardcastle, Technical Director. "We believe we are the first manufacturer of satellite test meters whose instruments are EMC certified at an independent BSI lab". This means that Horizon products are resistant to electromagnetic interference and refers to European standard BS EN 61326. Gerrard Smallwood adds that "Of course, our instruments are also certified from a technical point of view, for example against electrostatic discharge standard BS EN 61000."



▲ Top secret! The first sample units of the Pro Series for broadcasters, for example for use in OB vans to check the signal quality. The small unit on top is the TSR Transport Stream Reader, also with Pro Series specifications. The Pro Series will be launched in the second quarter of 2008.

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Technomate

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- USB 2.0 for MP3 & JPEG Playback and for Data/Software Transfer*
- Record to a USB Flash Drive or to an external USB Hard Disc

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Free-To-Air Satellite Receiver

TM-5300 D+ USB
with Built-in Smart Card Reader

TM-5400 CI+ USB
with Card Reader + Common Interface

TM-5600 CI USB
with Common Interface

The New

TM-6000 Series High Definition USB PVR



- 10,000 Channels • MPEG-2, MPEG-4 & H.264
- HDMI & Component (YPbPr) Outputs: 1080i, 720p, 576p & 576i
- USB 2.0 for MP3 & JPEG Playback and for Data/Software Transfer
- Record to a USB Flash Drive or to an external USB Hard Disc*
- Built-in Upscaler to improve standard picture quality
- 1 Smart Card Reader & 2 Common Interface (CI)
- 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

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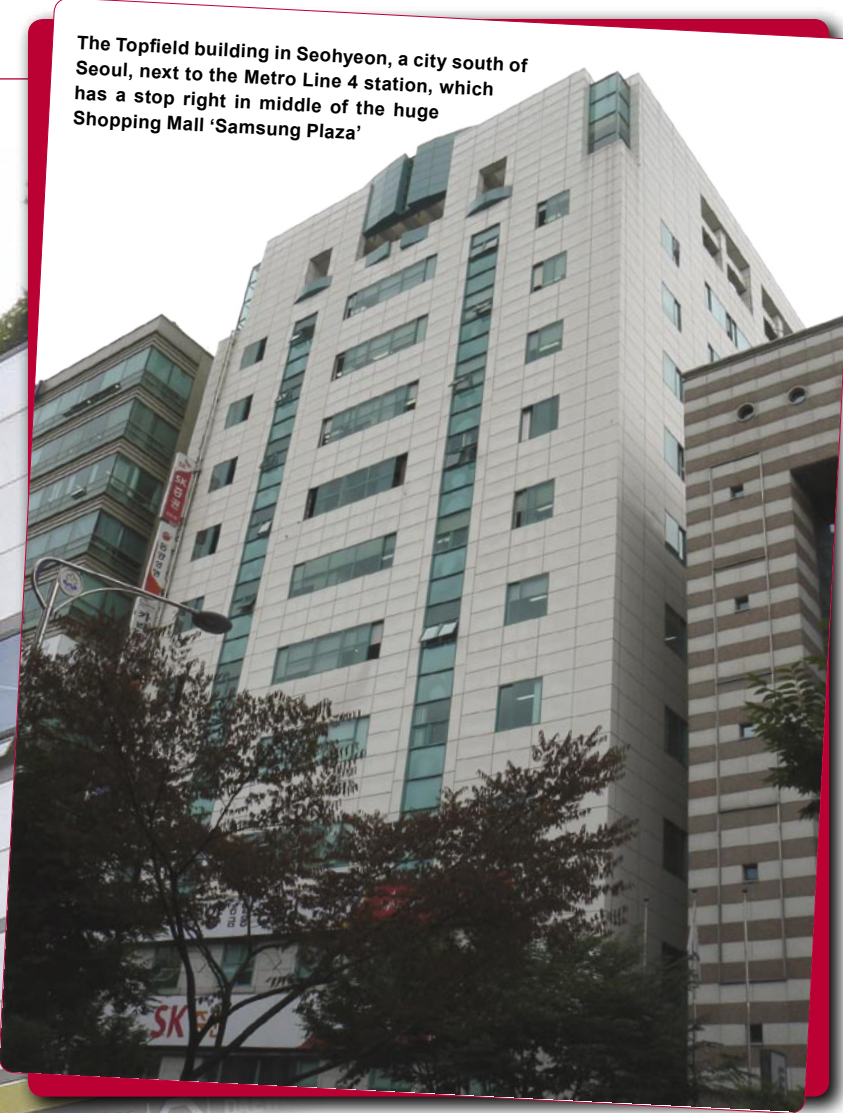
*may need to be powered

Ready for HD - Topfield Driving Forward

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'



David Choi sees a large increase in sales for the upcoming year: "During 2008 Topfield HD receiver sales are expected to increase up to 40%, from the 10% in 2007." David Choi is Topfield's Marketer, and he convinced us that his prediction will come true. "We are in the process of locking in new markets", explains David Choi. He mentioned the markets in Latin America, Southeast Asia, Australia, and all the European markets.

Topfield was founded in 1998 and began exporting products in 2000. Topfield made a name for itself in 2002 with the first twin PVR and again in 2006 with the first WLAN PVR, the TF6000PVR. Sales have steadily been increasing: while in 2003 it was US\$ 49 million, in 2004 it rose to US\$ 80 million and then jumped to US\$ 102 million in 2006. Sales of US\$ 170 million are expected for 2007 and for 2008 they could reach US\$ 270 million.

The largest market for Topfield is in Australia and in all the European markets. "However, sales in Asia, Middle East and Latin America are continuously increasing as well," explains David Choi. In addition to satellite receivers, Topfield also manufactures IPTV systems.

Production takes place in two manufacturing facilities in South Korea and two manufacturing sites in overseas. Explains David Choi: "An additional fabrication plant is located in Thailand."

In Seoul there are 150 employees of which 80 are engineers in R&D, with another 35 engineers in Product Development, plus 25 Sales Team employees and 10 in

management. A branch office in Germany takes care of sales in Europe.

Topfield is actively involved in trade shows although not always with their own booth at the show itself but in a neighboring hotel instead. David Choi explains, "Away from the trade show floor it is more peaceful and this makes it easier to concentrate the talks to our customers."

David Choi informed us that Topfield will be at IBC Holland, ANGA Germany, CabSAT Dubai, IFA Germany, CeBit Turkey, ABTA Brazil, SEMIC Spain, Antennes France and CSTB Russia.

Topfield really is driving forward in every country and continent!



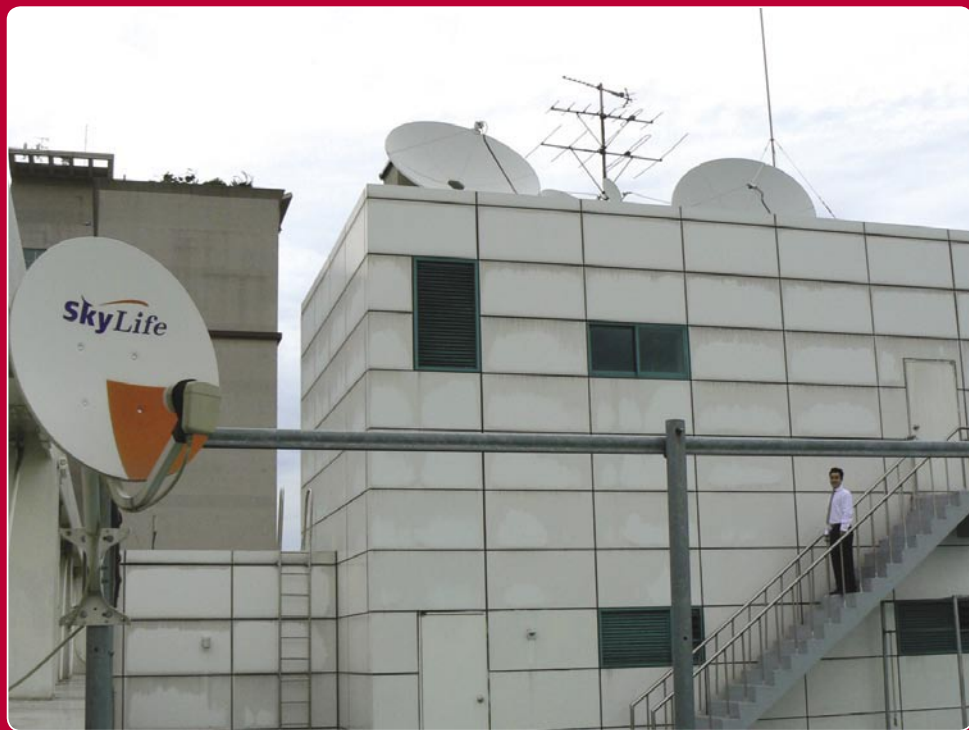
▲ David Choi (right), Topfield's Marketer, with Alexander Wiese (left), TELE-satellite Editor-in-Chief

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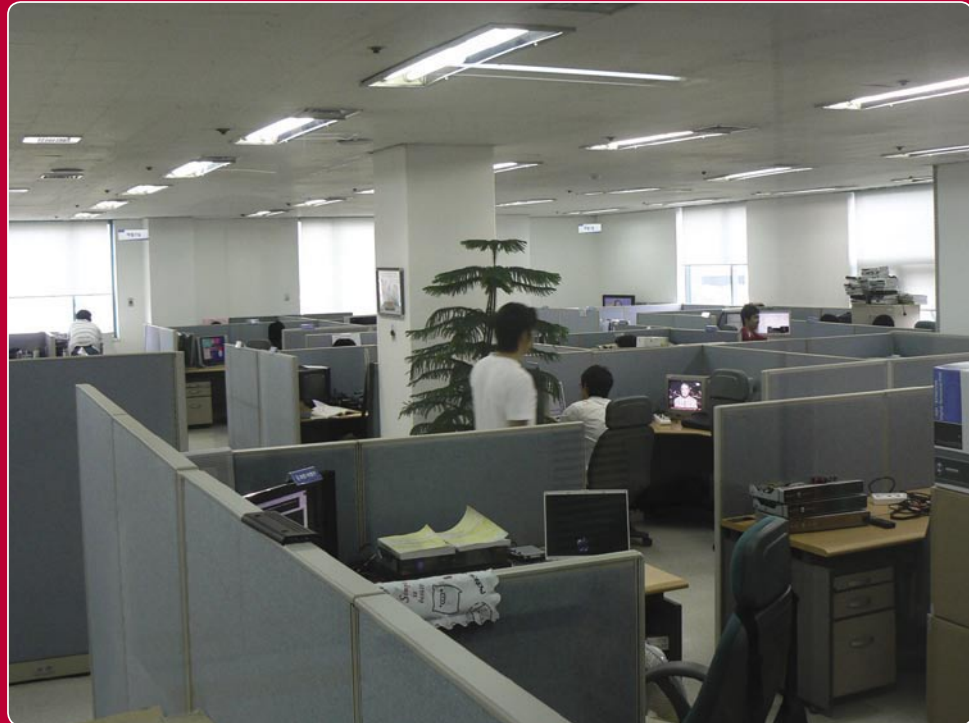
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Italian	Italiano	www.TELE-satellite.com/TELE-satellite-0801/ita/topfield.pdf
Hungarian	Magyar	www.TELE-satellite.com/TELE-satellite-0801/mag/topfield.pdf
Mandarin	中文	www.TELE-satellite.com/TELE-satellite-0801/man/topfield.pdf
Dutch	Nederlands	www.TELE-satellite.com/TELE-satellite-0801/ned/topfield.pdf
Polish	Polski	www.TELE-satellite.com/TELE-satellite-0801/pol/topfield.pdf
Russian	Русский	www.TELE-satellite.com/TELE-satellite-0801/rus/topfield.pdf
Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0801/tur/topfield.pdf

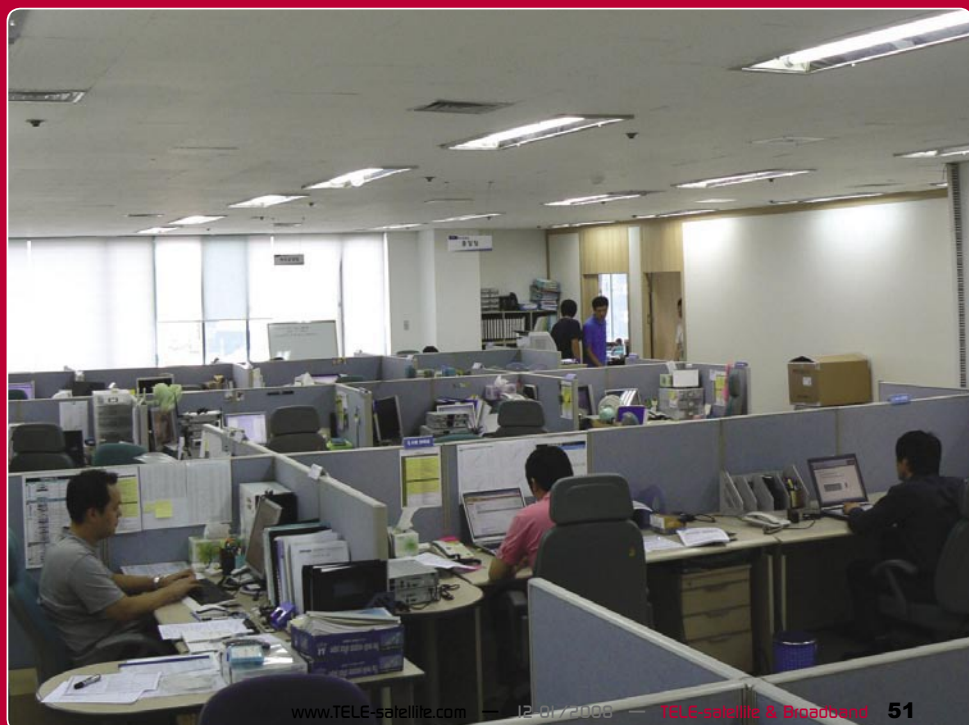
David Choi on the roof of the Topfield building. A small antenna can be seen to the left for the reception of SkyLife on KOREASAT along with other antennas



The Sales Team takes care of business



Here engineers work to further develop Topfield satellite receivers.



SAMMEG, Johannesburg

"Take advantage of your opportunities", that could be Joel Dorfan's motto. Not only is that how the company SAMMEG Satellite Pty Ltd came into being, but also the selection of products that SAMMEG offers under the brand name SAMSAT. It all started in 1994.

Back then the DSTV PayTV project had just started. One dealer saw this as his big chance and ordered a container full of 90cm dishes but in the end wasn't able to pay for them. Joel Dorfan heard about this and decided to invest it in the satellite business. One thing led to another and SAMMEG

In the „Industria West“ industrial zone in Gauteng, north of Johannesburg, can be found SAMMEG Satellite Pty Ltd's office building. The storage warehouses are to the left out of view and towards the rear is the fabrication plant for the "Aerial King" line of terrestrial antennas.

Joel Dorfan is chairman of SAMMEG Satellite Pty Ltd and also Technical Director. Here we see him on the roof of his office building adjusting a dish. The "Aerial King" brand name is used for SAMMEG Satellite Pty Ltd's own terrestrial antennas. The dish to the right carries the SAMSAT logo.



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One of the three partners is Sean Meadows, Managing Director of SAMMEG Satellite Pty Ltd.



stories come with an installation voucher. "There are days when our call center receives many hundreds of calls", explains Joel. All of the callers want to redeem their voucher for which they get a system installed at home by one of SAMMEG Satellite Pty Ltd's contracted installers.

Joel was born in Zimbabwe and lived there for 17 years before coming to South Africa. He told us that 90% of his sales are domestic with the remaining 10% of his international sales going to Zimbabwe, Botswana and Namibia.

He estimates that there are 1.3 million households in South Africa with satellite reception out of a total population of 40 million. SAMMEG Satellite Pty Ltd has shops in three locations: Johannesburg, Cape Town and Durban.

Sean Meadows, Managing Director and

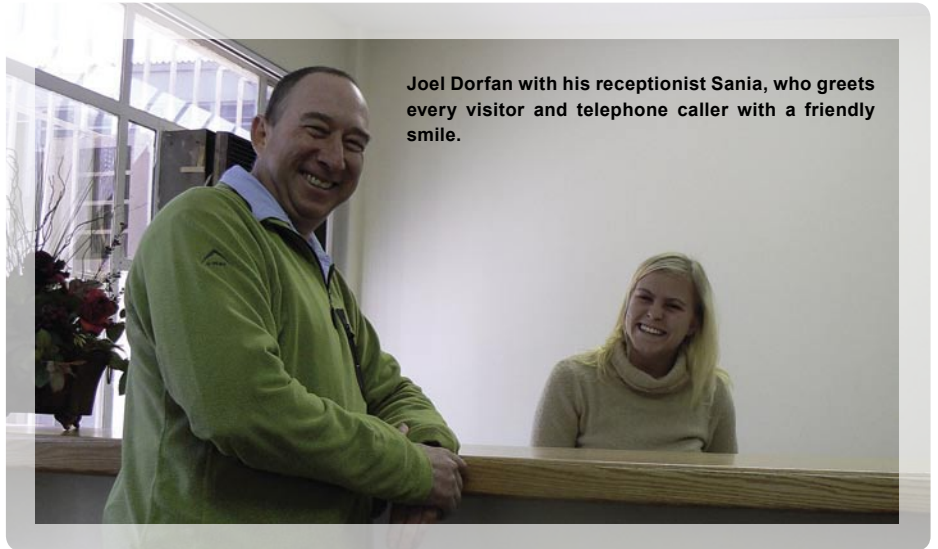
Satellite Ltd. was founded with three partners.

In the first year it was two containers full of satellite material that the young company managed to turn over. "In 2006 it was in excess of 50 containers", explains Joel, a radio amateur with the call sign ZS6CBA.

SAMMEG Satellite Pty Ltd is a wholesaler and offers dealers, retail shops and installers every possible product from dishes to LNBS, from receivers to all necessary accessories including plugs, switches, masts and signal analyzers. 90% of the dishes that are sold are the 60cm model with the remainder being 90cm dishes. Most of the antennas are used for the reception of the DSTV PayTV service on Intelsat 7/10 at 68.5° east.

In the larger superstores, these acces-

Joel Dorfan with his receptionist Sania, who greets every visitor and telephone caller with a friendly smile.



A look at the terrestrial antenna fabrication plant. "It's crazy", explains Joel, "it is cheaper for us to import precut antenna sections from China made out of South African aluminum than it is to make it ourselves." The raw material aluminum is more expensive in their own country than it would be to re-import it.



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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- 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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- Histogram display with up to 9 simultaneous carrier measurements for single cable installations (SCR)
- Data Logging (upload installation measurement data to your PC)

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- Built in intelligent universal mains charger 100 – 240V AC (CE approved) with V delta detection for fast and then trickle charging.
- Minimum run time of 5 hours with a full charge on the 2400 mAh NiMH battery.
- Computer interface: Serial Port (Com 1-4) for upgradeable software on transmitters.

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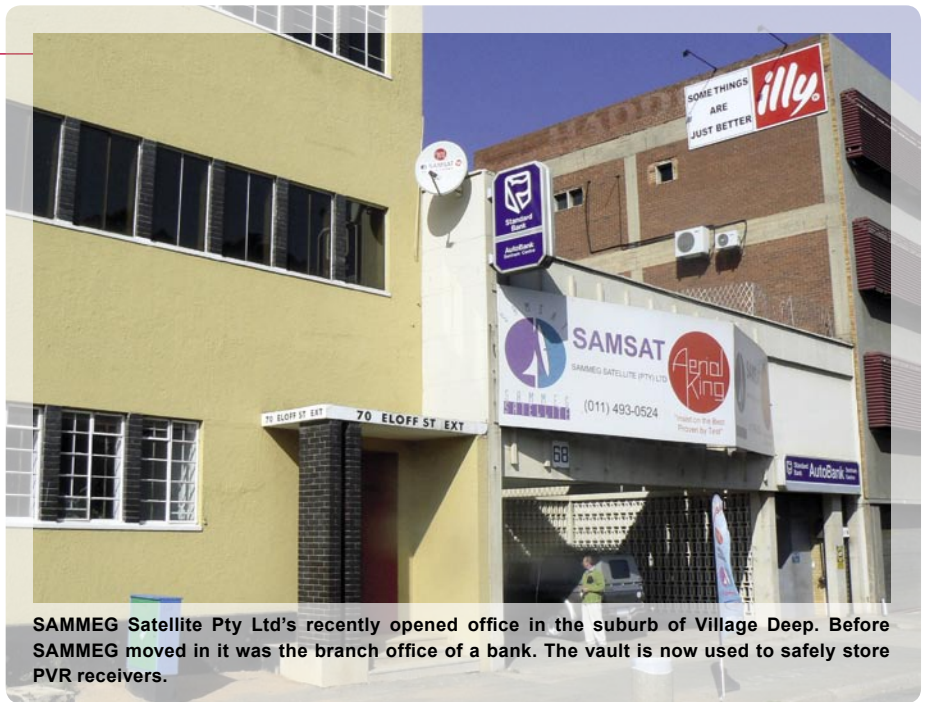
email: sales@horizonhge.com

also responsible for the financial end of things, provided us with a few more details: "We supply four of the large distribution chains in South Africa and also roughly 500 individual dealers and installers."

SAMMEG Satellite Pty Ltd has in excess of 100 employees, which are involved in their VHF/UHF antenna fabrication facility, in the warehouse and in sales. Other employees are distributed among their three shops.

What are Joel's plans for the future? He wants to have a stronger VSAT business presence; he sees an interesting future here, for example, with two-way communication for Internet providers.

The World Cup soccer tournament that will take place in 2010 in Johannesburg leaves him very optimistic about the future of satellite!



SAMMEG Satellite Pty Ltd's recently opened office in the suburb of Village Deep. Before SAMMEG moved in it was the branch office of a bank. The vault is now used to safely store PVR receivers.



Inside SAMMEG's city office can be found everything an installer would need. Behind the bar is shop manager Steven Kirsten busy trying to sell a roll of coax cable to Ingo Salomon posing as a customer for this picture. Ingo Salomon operates SatcoDX AutoScan stations Johannesburg 4 and 5; Joel Dorfan the AutoScan Station Johannesburg 2.



A look at the shipping department. Here the customer's orders are put together and prepared for pickup.

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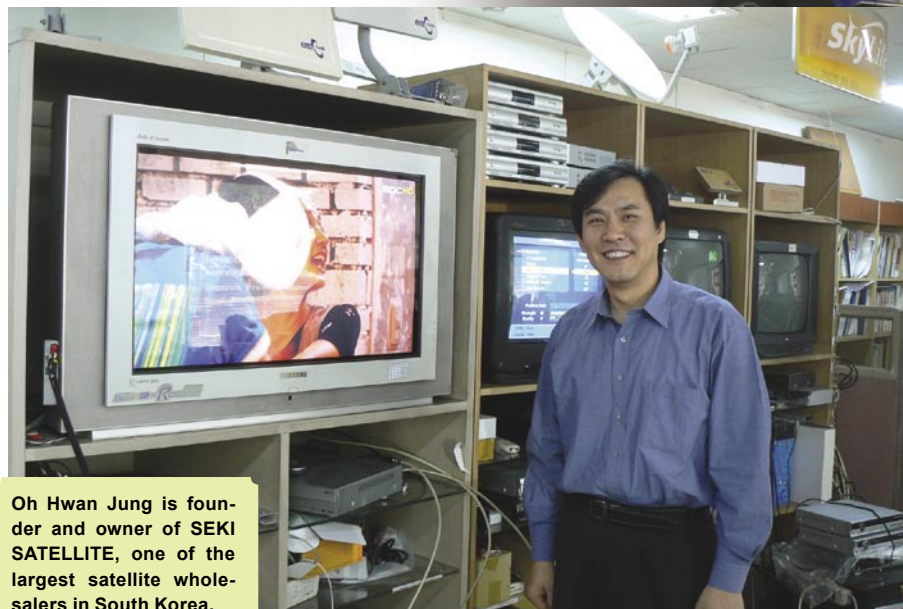
SEKI SATELLITE, Seoul

"Seki" is a Korean word that roughly translated means "century". SEKI SATELLITE is a Korean company that is all about the satellite century. An interesting name and reason enough for us to pay them a visit.

We found them in the suburb of Jung-Gu not too far from downtown Seoul. Founder and owner is Oh Hwan Jung. "I started the company in 1989 and began by erecting antennas", he explained thinking back to those early days. In the meantime the company has grown and now employs three technical engineers and six sales team members. So many sales people? "Today we are a satellite wholesaler", comments Oh Hwan Jung. He estimates that he ships about 60% of the satellite components sold within South Korea. This makes SEKI SATELLITE the market leader.

Eui-Jin Kim is their Technical Manager and rushes to the closest PC in order to filter out and print their latest sales figures via their Intranet. Looking at an particular month, we can see that SEKI SATELLITE is in first place in sales of the SKC-8000 FTA receiver. "This is a model from the Korean manufacturer Jiwoo", explained Eui-Jin Kim. The statistics showed that 720 of these were sold in one month and thereby made up 8.17% of their sales. Right behind that at 6.26% was the good-old "F" connector that shipped 552 in that month. In

Not far from the Yaksu Metro station, where lines 3 and 6 cross, the SEKI SATELLITE offices can be found. They also distribute the PayTV services from the Korean DTH operator SkyLife.



Oh Hwan Jung is founder and owner of SEKI SATELLITE, one of the largest satellite wholesalers in South Korea.



Arabic	العربية	www.TELE-satellite.com/TELE-satellite-0801/ara/sekisat.pdf
Indonesian	Indonesia	www.TELE-satellite.com/TELE-satellite-0801/bid/sekisat.pdf
Bulgarian	Български	www.TELE-satellite.com/TELE-satellite-0801/bul/sekisat.pdf
German	Deutsch	www.TELE-satellite.com/TELE-satellite-0801/deu/sekisat.pdf
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A look in the sales showroom. Here customers can get information on the SkyLife PayTV package as well as find out more about receiving international channels.



SEKI SATELLITE still repairs receivers manually. Here a technician is busy with his repair work.



Eui-Jin Kim is Technical Business Manager and is responsible for the satellite antennas on the roof of the SEKI SATELLITE building. The large 3-meter dish in the background with the C/Ku-band LNB is always being rotated to check reception. "I always study the SatcoDX charts to see if any new channels have appeared", revealed Eui-Jin Kim.

third place was a complete 60cm antenna system with dish and LNB. "This system is used for the reception of the FTA channels on KOREASAT 5", we learned. Customers for the reception of the PayTV package on that satellite get their complete system by the provider SkyLife. "We are also a distributor for SkyLife", commented Eui-Jin Kim, "but these sales are not included in this statistic."


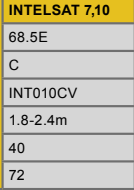

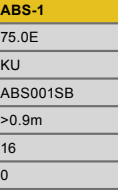

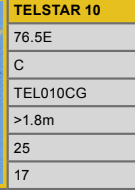
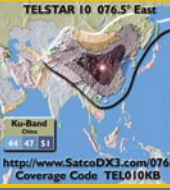
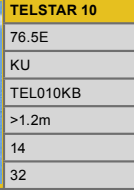

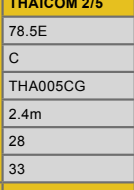

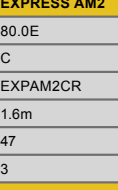

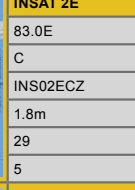

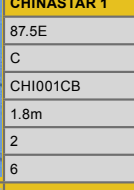

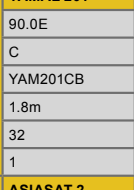

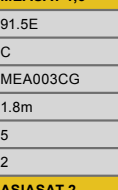

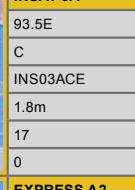

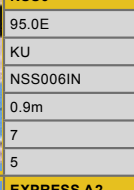

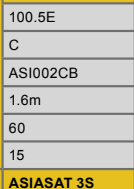



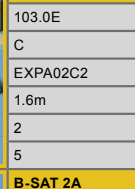



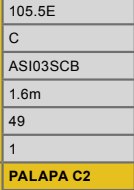



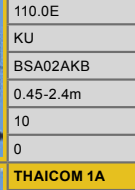


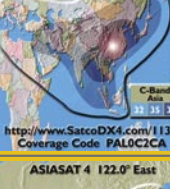
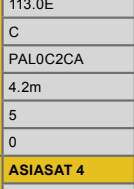



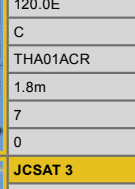

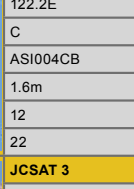

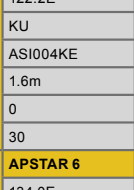

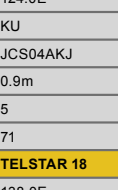

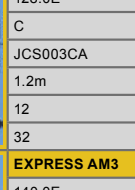

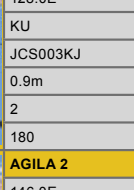

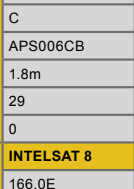

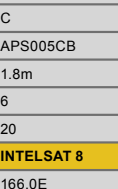

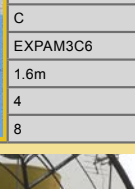

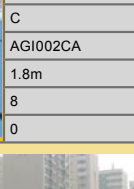

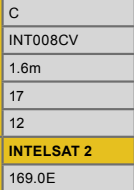

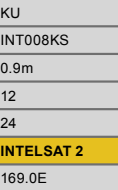

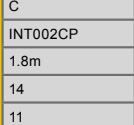


Other SEKI SATELLITE bestsellers are satellite and cable combiners. When looking at the satellite antennas, the 60cm model is at the top of the list followed by the 90cm, the 75cm, and coming in at the fourth position the 1.8-meter antenna.

SEKI SATELLITE also offers components for the reception of the Japanese BSAT satellite that still transmits in analog. "45cm is enough for reception in southern South Korea although here in Seoul it is nearly impossible." The footprint of the BSAT bird is very narrow. "For BSAT we offer LNBs with an LOF of 10.678 GHz", remarked Eui-Jin Kim. For KOREASAT reception LNB's with LOF's of 10.750 GHz are used. With so many different variations, the SEKI SATELLITE employees need to know exactly what is required for the customer.

The largest portion of their sales, "roughly 60%", comments Eui-Jin Kim, comes from the wholesale side of the business, "The remaining 40% comes from the installation of satellite and SMATV systems."

Last but not least we wanted to know where SEKI SATELLITE gets their components from. In addition to the FTA boxes from Jiwoo, they also offer high-end units from ARION. "Most of our dishes come from JONSA in Taiwan", explained Eui-Jin Kim, "only the 45cm antenna is made here in South Korea." The larger mesh antennas are acquired from Thailand. "We are very satisfied with the DiSeqC components from Spaun", said Eui-Jin Kim who continued, "It's unfortunate that only 30 satellite beams can be received here in South Korea, satellite business would otherwise be much more interesting!"

Satellite Beams Covering Seoul/Korea

Satellite	INTELSAT 10 068.6° East	INTELSAT 7,10	ABS-1 075.0° East	ABS-1	TELSTAR 10 076.5° East	TELSTAR 10	TELSTAR 10 076.5° East	TELSTAR 10
Position								
Band	C	C	Ku	KU	C	C	Ku	KU
Beam	INT010CV	INT010CV	ABS001SB	ABS001SB	TEL010CG	TEL010CG	TEL010KB	TEL010KB
Dish size	1.8-2.4m	1.8-2.4m	>0.9m	>0.9m	>1.8m	>1.8m	>1.2m	>1.2m
FTA-TV	40	40	16	16	25	25	14	14
Pay-TV	72	72	0	0	17	17	32	32
Satellite	THAICOM 5 078.5° East	THAICOM 2/5	EXPRESS AM-2 080.0° East	EXPRESS AM2	INSAT 2E 83.0° East	INSAT 2E	CHINASTAR 1 87.5° East	CHINASTAR 1
Position								
Band	C	C	C	C	C	C	C	C
Beam	THA005CG	THA005CG	EXPAM2CR	EXPAM2CR	INS02EZ	INS02EZ	CHI001CB	CHI001CB
Dish size	2.4m	2.4m	1.6m	1.6m	1.8m	1.8m	1.8m	1.8m
FTA-TV	28	28	47	47	29	29	2	2
Pay-TV	33	33	3	3	5	5	6	6
Satellite	YAMAL 201 090.0° East	YAMAL 201	MEASAT 3 091.5° East	MEASAT 1,3	INSAT 3A 093.5° East	INSAT 3A	NSS-6 095.0° East	NSS6
Position								
Band	C	C	C	C	C	C	C	C
Beam	YAM201CB	YAM201CB	MEA003CG	MEA003CG	INS03ACE	INS03ACE	NSS006IN	NSS006IN
Dish size	1.8m	1.8m	1.8m	1.8m	1.8m	1.8m	0.9m	0.9m
FTA-TV	32	32	5	5	17	17	7	7
Pay-TV	1	1	2	2	0	0	5	5
Satellite	ASIASEAT 2 100.5° East	ASIASEAT 2	ASIASEAT 2 100.5° East	ASIASEAT 2	EXPRESS A2 103.0° East	EXPRESS A2	EXPRESS A2 103.0° East	EXPRESS A2
Position								
Band	C	C	C	C	C	C	C	C
Beam	ASI002CB	ASI002CB	ASI002CB	ASI002CB	EXPA02C2	EXPA02C2	EXPA02KS	EXPA02KS
Dish size	1.6m	1.6m	1.6m	1.6m	1.6m	1.6m	1.6m	1.6m
FTA-TV	60	60	1	1	2	2	1	1
Pay-TV	15	15	0	0	5	5	1	1
Satellite	ASIASEAT 3S 105.5° East	ASIASEAT 3S	BSAT 1A 110.0° East	B-SAT 1A	BSAT 2A 110.0° East	B-SAT 2A	KOREASAT 2 113.0° East	KOREASAT 5
Position								
Band	C	C	Ku	KU	Ku	KU	C	KU
Beam	ASI03SCB	ASI03SCB	BSA01AKB	BSA01AKB	BSA02AKB	BSA02AKB	KOR002KB	KOR002KB
Dish size	1.6m	1.6m	1.6m	1.6m	0.45-2.4m	0.45-2.4m	0.45m	0.45m
FTA-TV	49	49	2	2	10	10	6	6
Pay-TV	1	1	0	0	0	0	0	0
Satellite	PALAPA C2 113.0° East	PALAPA C2	KOREASAT 3 116.0° East	KOREASAT 3	THAICOM 1A 120.0° East	THAICOM 1A	ASIASEAT 4 122.0° East	ASIASEAT 4
Position								
Band	C	C	C	C	C	C	C	C
Beam	PAL02CA	PAL02CA	KOR003KB	KOR003KB	THA01ACR	THA01ACR	ASI004CB	ASI004CB
Dish size	4.2m	4.2m	0.45m	0.45m	1.8m	1.8m	1.6m	1.6m
FTA-TV	5	5	9	9	7	7	12	12
Pay-TV	0	0	134	134	0	0	22	22
Satellite	ASIASEAT 4 122.0° East	ASIASEAT 4	JCSAT 4A 124.0° East	JCSAT 4A	JCSAT 3 128.0° East	JCSAT 3	JCSAT 3 128.0° East	JCSAT 3
Position								
Band	KU	KU	KU	KU	C	C	C	C
Beam	ASI004KE	ASI004KE	JCS04AKJ	JCS04AKJ	JCS003CA	JCS003CA	JCS003KJ	JCS003KJ
Dish size	1.6m	1.6m	0.9m	0.9m	1.2m	1.2m	0.9m	0.9m
FTA-TV	0	0	5	5	12	12	2	2
Pay-TV	30	30	71	71	32	32	180	180
Satellite	APSTAR 6 134.0° East	APSTAR 6	APSTAR 5 - TELSTAR 18 138.0° East	TELSTAR 18	EXPRESS AM-3 140.0° East	EXPRESS AM3	AGILA 2 146.0° East	AGILA 2
Position								
Band	C	C	C	C	C	C	C	C
Beam	APS006CB	APS006CB	APS005CB	APS005CB	EXPAM3C6	EXPAM3C6	AGI002CA	AGI002CA
Dish size	1.8m	1.8m	1.8m	1.8m	1.6m	1.6m	1.8m	1.8m
FTA-TV	29	29	6	6	4	4	8	8
Pay-TV	0	0	20	20	8	8	0	0
Satellite	INTELSAT 8 166.0° East	INTELSAT 8	INTELSAT 8 166.0° East	INTELSAT 8				
Position								
Band	C	C	C	C				
Beam	INT008CV	INT008CV	INT008KS	INT008KS				
Dish size	1.6m	1.6m	0.9m	0.9m				
FTA-TV	17	17	12	12				
Pay-TV	12	12	24	24				
Satellite	INTELSAT 2 169.0° East	INTELSAT 2	INTELSAT 2 169.0° East	INTELSAT 2				
Position								
Band	C	C	C	C				
Beam	INT002CP	INT002CP	INT002KC	INT002KC				
Dish size	1.8m	1.8m	0.9m	0.9m				
FTA-TV	14	14	3	3				
Pay-TV	11	11	3	3				



▲ Compiled by Eui-Jin Kim, SEKI SATELLITE, Seoul, Korea
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Satellite Shopping in China

The majority of satellite products are manufactured in China. For this reason TELE-satellite wanted to research what it is like to buy satellite products in China itself since the sale of satellite equipment to the private sector is officially illegal there. With that in mind, there shouldn't be many satellite shops in China, or are there?

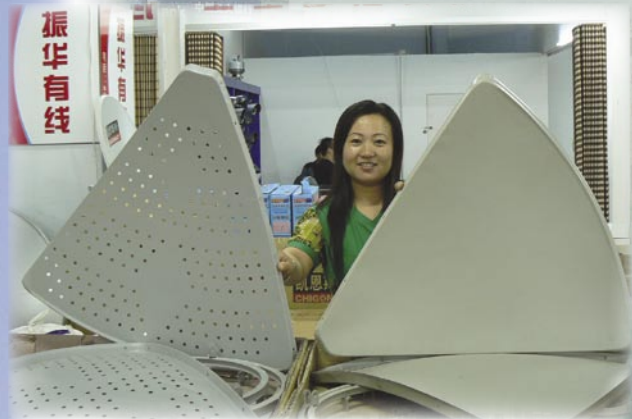
Actually, there are quite a few! An insider explained to us how this works: "A company is given the authorization to sell satellite components to professional companies. They are given an official certificate that is hung so it is clearly visible in their shop. Then an inspector comes to check and make sure that private individuals could not buy satellite products."

There are other obstacles: it is not all that well known that a satellite antenna can be used to receive numerous additional channels. And with the tendency in China to do things as a society rather than individually, cable television technology is now widely in use.

Town and village communities come to an agreement, install a single satellite reception system and distribute the signal either via cable or via MMDS to all the households, though the latter is about to be stopped eventually. This leaves very little room for experimentation or long-distance reception; instead, only the state-run channels along with all the many provincial and city channels can be received. Usually, a cable connection costs RMB 150 per year (approx Euro 15), and a complete satellite set will offset a Chinese viewers with about RMB 500 (approx Euro 50) - for a lifetime.

In consequence, the products offered in satellite shops are mostly geared towards this cable tv group, that is, community-oriented satellite reception rather than private individual reception. But it also means that a satellite DXer would have no problem acquiring the necessary satellite components even though it is officially prohibited.

At least for now anyway. In all likelihood, the launch of CHINASTAR to 115.5 east and SINOSAT to 125 east will result in these laws becoming more relaxed.



▲ Ms. Guo from the Zhen Hua Corporation shows us two variations of their segmented antennas: completely solid and solid with holes. The latter variant is recommended when the wind load needs to be smaller. She explained to us, "We sell between 100 and 1000 dishes every month." She offers both the 1.2-meter and 1.5-meter sizes.



▲ On the fourth floor of this electronics shopping mall in an eastern Chinese city, a satellite hobbyist can find anything his heart desires. Not only dishes as can be seen here in the foreground, but every imaginable Ku and C-band LNB, DiSEqC switch, satellite receiver along with miles of coax cable.



▲ Mr. Yan from the DeLong Corporation shows us TELE-satellite and explains, "We sell roughly 500 1.2-meter antennas and about 300 1.5-meter antennas every month. But we also have months where that number reaches 1000!"

▲ The old TV tower in an eastern Chinese city. The revolving restaurant near the top is still in operation and is quite popular. There's even a satellite antenna on the roof.

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▲ Ms. Weng in her small satellite shop. She explained to us, "I sell 200 to 300 antennas each month." She also ships antennas up to 12 meters in diameter. But the majority of her sales come from cable distribution systems.



▲ The entrance to Mr. Tom's satellite shop.



▲ This is...we'll call him Mr. Tom; he would prefer not to see his real name made public. For the past eight years he has been operating a wholesale/retail business in a city in eastern China. He has seven employees plus additional installers that are called when needed. His best-selling product is the 1.5-meter antenna. "They make up 80% of my sales." 5% of the antennas that he sells are 1.8 meters in size and 2% are 2.4 meters in diameter. Here he shows us a 75cm model although this size only makes up 2% of his sales. As can be seen on the shelves, he also carries a large variety of receiver and cable modulators.



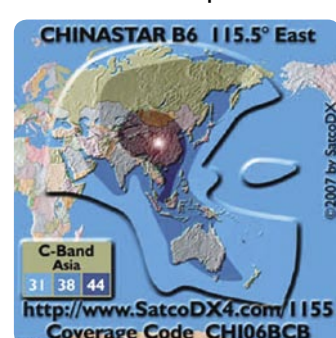
▲ Mr. Yin can be seen here with his homemade solution for the reception of the three satellites SINOSAT 3 (left), CHINASTAR 6B (middle) and ASIASAT 3S (right, in the antenna focal point).



▲ In this shop we surprised Ms. Yan while she was reading TELE-satellite. Her business has been in operation since 1983 and she explained to us, "One third of our sales come from satellite components; the rest come from cable TV components."



▲ More and more satellite antennas are popping up in China, even if it's only here and there. Here is a view of an apartment building in an eastern Chinese city.



▲ Footprints of the two new chinese satellites CHINASTAR and SINO-SAT.

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
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Table with columns for satellite names (e.g., EURObird 4.0, SIRIUS 3, HOTBIRD 6), frequencies, and other technical details. Includes a 'Legend' section at the bottom left.

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 ASIRIQ.

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...

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 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323	01561 MAD TV BULGARIA 4323

Satellite Global Satellite Chart 12/2007

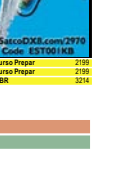
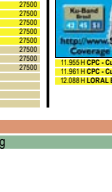
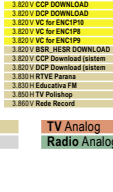
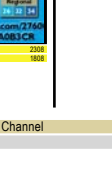
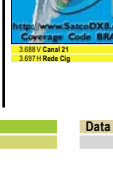
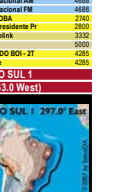
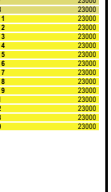
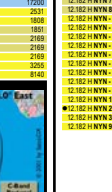
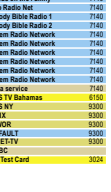
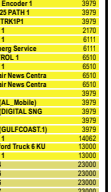
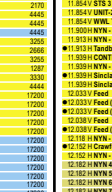
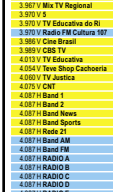
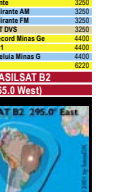
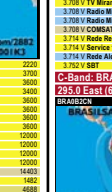
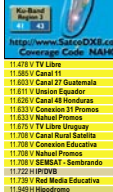
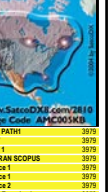
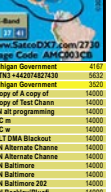
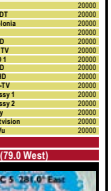
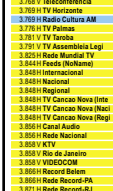
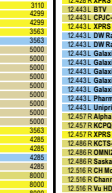
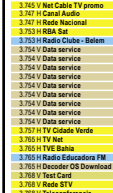
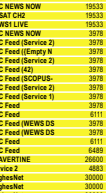
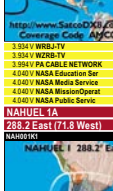
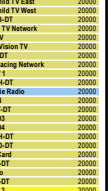
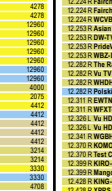
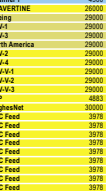
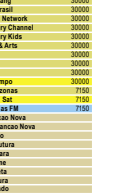
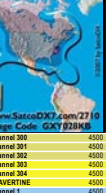
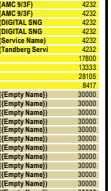
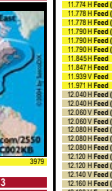
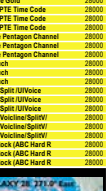
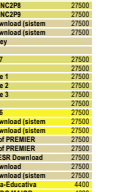
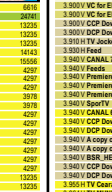
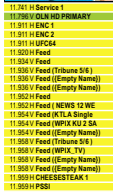
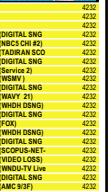
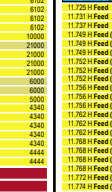
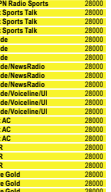
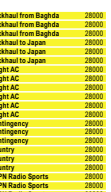
Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate	Freq/Pol Channel Name	Symbol rate
AGIL2 East 146.0 East AGIL2C AGIL2 146.0° East	3000	AGIL2 East 146.0 East AGIL2C AGIL2 146.0° East	3000	AGIL2 East 146.0 East AGIL2C AGIL2 146.0° East	3000	AGIL2 East 146.0 East AGIL2C AGIL2 146.0° East	3000	AGIL2 East 146.0 East AGIL2C AGIL2 146.0° East	3000	AGIL2 East 146.0 East AGIL2C AGIL2 146.0° East	3000	AGIL2 East 146.0 East AGIL2C AGIL2 146.0° East	3000
AGIL2 West 172.0 West AGIL2C AGIL2 172.0° West	3000	AGIL2 West 172.0 West AGIL2C AGIL2 172.0° West	3000	AGIL2 West 172.0 West AGIL2C AGIL2 172.0° West	3000	AGIL2 West 172.0 West AGIL2C AGIL2 172.0° West	3000	AGIL2 West 172.0 West AGIL2C AGIL2 172.0° West	3000	AGIL2 West 172.0 West AGIL2C AGIL2 172.0° West	3000	AGIL2 West 172.0 West AGIL2C AGIL2 172.0° West	3000
AGIL2 South 0.0 South AGIL2C AGIL2 0.0° South	3000	AGIL2 South 0.0 South AGIL2C AGIL2 0.0° South	3000	AGIL2 South 0.0 South AGIL2C AGIL2 0.0° South	3000	AGIL2 South 0.0 South AGIL2C AGIL2 0.0° South	3000	AGIL2 South 0.0 South AGIL2C AGIL2 0.0° South	3000	AGIL2 South 0.0 South AGIL2C AGIL2 0.0° South	3000	AGIL2 South 0.0 South AGIL2C AGIL2 0.0° South	3000
AGIL2 North 30.0 North AGIL2C AGIL2 30.0° North	3000	AGIL2 North 30.0 North AGIL2C AGIL2 30.0° North	3000	AGIL2 North 30.0 North AGIL2C AGIL2 30.0° North	3000	AGIL2 North 30.0 North AGIL2C AGIL2 30.0° North	3000	AGIL2 North 30.0 North AGIL2C AGIL2 30.0° North	3000	AGIL2 North 30.0 North AGIL2C AGIL2 30.0° North	3000	AGIL2 North 30.0 North AGIL2C AGIL2 30.0° North	3000

Satellite Global Satellite chart 12/2007

Freq/Channel Name	Symbol rate	Freq/Channel Name	Symbol rate	Freq/Channel Name	Symbol rate	Freq/Channel Name	Symbol rate	Freq/Channel Name	Symbol rate	Freq/Channel Name	Symbol rate	Freq/Channel Name	Symbol rate	Freq/Channel Name	Symbol rate	Freq/Channel Name	Symbol rate	Freq/Channel Name	Symbol rate	
3.800 Traditional Country	29200	12.2001 Feeds (Empty Name)	3000	12.224R KMDTV	20000	12.41R BMDTV	20000	SATMEX 5	3.874 TV Tabasco	29200	3.881 Broadcast 422	36800	11.701 TAN TV	19700	4.800 MDR/Mexico	19500	3.900 TVN	15000	3.900 TVN	15000
12.2001 Feeds (Empty Name)	3000	12.224R KMDTV	20000	12.41R BMDTV	20000	SATMEX 5	3.874 TV Tabasco	29200	3.881 Broadcast 422	36800	11.701 TAN TV	19700	4.800 MDR/Mexico	19500	3.900 TVN	15000	3.900 TVN	15000	3.900 TVN	15000

Satellite 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
12.370 CM	20000	12.441 BLF	20000	12.801 CAD	20000	13.832 RS	20000	4.001 Backhaul from Baghdad	20000	AMC 9	20000	8.801 Radio Postcentral	20000
12.370 CM	20000	12.441 KIE	20000	12.801 CAD	20000	13.832 RS	20000	4.001 Backhaul from Baghdad	20000	AMC 9	20000	8.801 Radio De Bol	20000
12.370 CM	20000	12.441 KOF	20000	12.801 CAD	20000	13.832 RS	20000	4.001 Backhaul from Baghdad	20000	AMC 9	20000	8.801 Radio Boba Nov	20000
12.370 CM	20000	12.441 KOF	20000	12.801 CAD	20000	13.832 RS	20000	4.001 Backhaul from Baghdad	20000	AMC 9	20000	8.801 Radio Boba Nov	20000
12.370 CM	20000	12.441 KOF	20000	12.801 CAD	20000	13.832 RS	20000	4.001 Backhaul from Baghdad	20000	AMC 9	20000	8.801 Radio Boba Nov	20000



Main table listing satellite channels with columns for Freq/Pol, Channel Name, Symbol rate, and various service details.

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

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

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- 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:
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Subscription information see page 64 in this edition.

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