

SATELLITE

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11-12
2008

Rapport de Test
SV-360 Elite PVR
 Récepteur PVR facile
 à utiliser

Rapport
INFOSAT V055
 Parabole légère pour
 la bande C



Présentation d'entreprise
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Rapport d'un radioamateur
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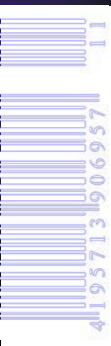
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L'application "Le Monde des Satellites" de SatcoDX contient les données techniques de toute émission satellite dans le monde entier.



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SatcoDX **12/2008**

Le Monde des Satellites

Base de données globale pour la programmation satellite - Logiciel informatif

Software V3.12 fra sdx Creator

Table globale des satellites
Toutes les stations de tous les satellites

Assistant satellite: Quelles stations pouvez-vous capter dans votre emplacement avec votre équipement?
DishTrak: Quels satellites pouvez-vous recevoir?
Localisateur des stations: Retrouvez la stations que vous cherchez

Mise à jour des tables en ligne:
Mise à jour par Internet à tout moment

Programmez votre récepteur: Triez et filtrez, ensuite téléchargez vers les récepteurs compatibles SatcoDX

Zones de couverture des satellites: Recherchez la portée réelle des faisceaux satellite

Export et impression des données des tables:
Sauvegardez vos listes personnalisées

Exportez la base de données en format sdx
Programmez votre récepteur compatible SatcoDX

GRATUIT Includ: un fascicule complet de la revue TELE-satellite 09/2008

© TELE-satellite - Minimum System Requirements: Pentium III - 128 MB RAM - 16 bit Colordepth - 800x600 Screen - Compatible to Win 95, 98, ME, 2000, NT4, XP

Une production de la revue TELE-satellite & Haut débit
Pour usage privé et personnel
ISSN 1861-5384
SatcoDX.com

Téléchargez le logiciel SatcoDX ici:
www.TELE-satellite.com/cd/0812/fra

Listes complètes des stations de chaque satellite avec toutes les données techniques

Position Code and Satellite	Type	Ch	Freque	Px	Channel Name	Coverage
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.760	V	Telefuturo (left audio)	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	4	3.760	V	Radio Futuro (right audio)	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.764	V	Canal 5 El Lider	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.764	V	Telecadena 7 y 4	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.781	V	Telecentro	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	3.786	V	Feeds	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	5E	3.825	H	Deus e Amor	PAN01REA
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	7E	3.869	H	Gamavision	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	7E	3.869	H	Radio Sonorama	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	9E	3.882	H	Feeds	PAN01REA
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	18	4.040	V	CTC-Mundo	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	18	4.071	V	UCV TV	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	19	4.096	H	TNP - Television Nacional	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	19	4.096	H	Education A Distancia	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	R-DIG	19	4.096	H	Radio Nacional del Peru	PAN01RLW
3150 PANAMSAT 1R (315.0E - 45.0W)	TV-DIG	4	4.106	V	WLIH-TV	PAN01RLW

Affichage automatique de toutes les stations satellites captables

Programmation automatique de tous les récepteurs compatibles SatcoDX

Mises à jour des données via Internet grâce au serveur principal et à des serveurs de réserve

Impression des listes des stations y compris les zones de couverture en format HTML



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09-10 2008

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استخدم كابل واحد بدلا من اثنين

SatCatcher
أقمار صناعية مذهلة

Diamond line
وحدات LNB من شركة GT-SAT
الحصل على مزيد من الاستفادة

Imperial DB 1 CI HDMI
رئيسيفر العجائب لمحبي القنوات الفضائية التلفزيونية و الإذاعية

Venus 1.8m Dish
طبق قوي و سهل التركيب في حديقة منزلك

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Laporan Uji globalinvacom Stacker/De-Stacker
Hanya menggunakan satu kabel

Laporan Uji SatCatcher
Meter Satelit B...

Laporan Uji Diamond line
GT-SAT LNB:
Mendapatkan Lebih Banyak

Laporan Uji Imperial DB 1 CI HDMI
Receiver Ajaib untuk Pecinta TV dan Radio Satelit

Antena Piringan yang Kuat dan Mudah dipasang

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Největší časopis o satelitní technice na světě

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Recenze globalinvacom Slučovač/rozbočovač
Použijte jeden kabel místo dvou

Recenze SatCatcher

Recenze Diamond line
Konvertory GT-SAT:
Za málo peněz hodné muziky!

Recenze Imperial DB 1 CI HDMI
Zázračná krabička pro milovníky satelitní TV a rádia

Recenze Parabola 1.8m Venus
Robustní a snadno smontovatelná parabola

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08-09 2008

Test Report globalinvacom Stacker/De-Stacker
Kabelsparen: aus 2 mach 1

Test Report SatCatcher

Test Report Diamond Line
Die Stärken von GT-SAT geben Power

Test Report Imperial DB 1 CI HDMI
Die Wunderbox für TV und Satelliten Radiohörer

Test Report Venus 1.8m Dish
Stabiler Selbstaufbau Spiegel für jeden Zweck

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Use one cable instead of two

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Amazing New

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Bang For Your Buck!**

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Un Nuevo Medidor

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por su Dinero

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سیگنال سنج ماهواره ای
چندین و جانب

گزارش آزمایش
Diamond line
GT-SAT :
ال ان بی های
در ازای پولشان بیشتر بدست آورید

گزارش آزمایش
Imperial DB 1 CI HDMI
جعبه جادو بی برای عشاق تلویزیون
و رادیویی ماهواره ای

گزارش آزمایش
Venus 1.8m Dish
محکم با نصبی آسان، ان را در
باغچه تان بکارید

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au lieu de deux

Rapport de Test
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LNB de GT-SAT :
Plus de jus pour votre oseille!

Rapport de Test
Imperial DB 1 CI HDMI
Boîte à surprises pour les
amoureux de la TV et radio
par satellite

Rapport de Test
Parabole Venus 1,8m
Plantez dans votre jardin
une parabole solide et
facile à assembler

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Umjesto dva kabela – jedan

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LNB-i tvrtke GT-SAT: Veća snaga za vaš novac!

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Čudesna kutijica za ljubitelje satelitske TV i radija

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Il miglior nuovo

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Una Marcia in Più!

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La Meraviglia per gli Appassionati di Radio e TV via Satellite

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Robusta Parabola Facile da Montare in Giardino

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Gebruik één kabel in
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Satelliet TV

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Wonderbox voor satelliet TV
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Sterke en simpel te
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dwóch

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LNB GT-SAT:**
Daj pełną moc!

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Cudowne pudełko dla
miłośników satelitarnej
TV i radia

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Czasza Venus 1,8m
Mocna i prosta w montażu
do twojego ogródka

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Use apenas um cabo em
vez de dois

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mais potencialidades em
sua casa!

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Imperial DB 1 CI HDMI
Uma Caixa magnífica para
os Amantes de TV e Rádio
Via Satélite

Relatório de Ensaio
Venus 1.8m Dish
Prato Forte e fácil de
Montar em Seu Jardim

Relatório de Ensaio
AB IPBOX 9000HD Plus

ab-com HDTV **SATELLITE**
AWARD 08-09/2008

Quality TV on DVB-S/DVB-S2/DVB-C/DVB-T

www.abipbox.com

Ler Revista TELE-satélite online:
<http://magazine.tele-satellite.com/TELE-satellite-0809-por.pdf>

ROM Cea mai mare revistă de satelit al lumii # 206

TELE **SATELIT** & BROADBAND 09-10 2008

Reportaje teste
**globalinvacom
Stacker/De-Stacker**
Use one cable instead of two

Reportaje teste
SatCatcher
mazing New

Reportaje teste
**Diamond line
GT-SAT LNBS: Get More
Bang For Your Buck!**

Reportaje teste
Imperial DB 1 CI HDMI
Wonderbox for Satellite TV
and Radio Lovers

Reportaje teste
Venus 1.8m Dish
Strong and Easy-To-Mount
Dish to Plant in Your Garden

Reportaje teste
AB IPBOX 9000HD Plus

ab-com HDTV **SATELITE** AWARD 08-09/2008
Quality TV on DVB-S/DVB-S2/DVB-C/DVB-T
www.abipbox.com

Citiți revista TELE-satelit online:
<http://magazine.tele-satellite.com/TELE-satellite-0809-rom.pdf>

RUS Крупнейший в мире спутниковый журнал # 206

TELE **САТЕЛЛАЙТ** & BROADBAND 09-10 2008

Тестируем
**globalinvacom
Stacker/De-Stacker**
Используйте один
кабель вместо двух

Тестируем
SatCatcher
дивительный

Тестируем
**Diamond line
Конвертеры GT-SAT:**
Вы получите больше
возможностей за те же деньги

Тестируем
Imperial DB 1 CI HDMI
Потрясающий приёмник для
любителей спутникового приёма и
любителей спутникового радио

Тестируем
Venus 1.8m Dish
Ветроустойчивая легко
монтажная антенна заводского
изготовления специально для Вас

Тестируем
AB IPBOX 9000HD Plus

ab-com HDTV **САТЕЛЛАЙТ** AWARD 08-09/2008
Quality TV on DVB-S/DVB-S2/DVB-C/DVB-T
www.abipbox.com

Читайте журнал ТЕЛЕ-сателлайт он-лайн:
<http://magazine.tele-satellite.com/TELE-satellite-0809-rus.pdf>

SVE Världens största satellittidning # 206

TELE **SATELLIT** & BROADBAND 09-10 2008

Testrapport
**globalinvacom
Stacker/De-Stacker**
Använd en kabel istället
för två

Testrapport
SatCatcher

Testrapport
**Diamond line
GT-SAT LNB:**
Få ut mer för dina pengar

Testrapport
Imperial DB 1 CI HDMI
Mirakelbox för satellitTV
och radio-ålskare

Testrapport
Venus 1.8m Dish
Stark och lättmonterad
antenn att plantera i din
trädgård

Testrapport
AB IPBOX 9000HD Plus

ab-com HDTV **SATELLIT** AWARD 08-09/2008
Quality TV on DVB-S/DVB-S2/DVB-C/DVB-T
www.abipbox.com

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TUR Dünyanın En Büyük Uydu Donanımı Dergisi # 206

TELE **SATELLITE** & BROADBAND 09-10 2008

Test
**globalinvacom
Stacker/De-Stacker**
İki yerine bir kablo kullanın

Test
SatCatcher

Test
**Diamond serisi
GT-SAT LNBLer:**
Kuruşunuzu Bile Zıyan Etmeyin!

Test
Imperial DB 1 CI HDMI
Uydu TV ve Radyo Tutkunları
için Harikalar Kutusu

Test
Venus 1.8m Dish
Bahçeniz için Kurulumu
Kolay Güçlü Anten

Test
AB IPBOX 9000HD Plus

ab-com HDTV **SATELLITE** AWARD 08-09/2008
Quality TV on DVB-S/DVB-S2/DVB-C/DVB-T
www.abipbox.com

Uluslararası TELE-satellite Dergisi'ni online okuyun:
<http://magazine.tele-satellite.com/TELE-satellite-0809-tur.pdf>

Technomate

TM-5000 Series with USB PVR & Component

92%
"What Satellite"
Jan 08



- 10,000 Channel Memory
- Component (YPbPr) Output
- Very Fast & Detailed Blind Search
- USB 2.0 for Software Download/Upload, MP3 & JPEG Playback
- Record/Playback FTA Channels by USB
- Super Sensitive Tuner

TM-5200 D USB
Free-To-Air Satellite Receiver

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

TM-5400 CI+ USB
Card Reader + Common Interface

TM-5600 CI USB
Common Interface Slot

TM-6000 Series High Definition USB PVR



- 10,000 Channels
- Record Scrambled/FTA Channels by USB
- USB 2.0 for Software Download/Upload, MP3 & JPEG Playback
- MPEG-4 & H.264 (1080i/720p/576p/576i)
- 1 Smart Card Reader & 2 CI

TM-6800 HD
DVB-S/S2 Satellite

TM-6900 HD COMBO
DVB-S/S2 Satellite & DVB-T Terrestrial

TM-3000 Series

TM-3500 D+ USB:



- 6,000 Channels
- Timeshift
- Built-in Smart Card Reader
- Record Scrambled/FTA Channels by USB
- Record 1 Channel and watch another at the same time! (on same TP)

TM-3100 D
Free-To-Air Satellite Receiver

TM-3200 D+
Built-in Smart Card Reader

TM-3300 2CA
2 Card Readers

TM-3400 CI+
Card Reader + Common Interface



Be DIVX

NOVA 3000

USB PVR with DivX

- PVR ready via USB for external HDD & SD memory card
- Game from the web available
- DivX file play available
- Music & Photo store and play available
- MPEG-2 DVB compliant
- Video decoding : MPEG-2 MP@ML
- Audio decoding : MPEG Layer I & II
- SCARTS, S/PDIF, S-VHS, RCA output



EpiValley



TOPFIELD TF7700HSCI
Digital Satellite Receiver for
SDTV/HDTV in DVBS
and DVBS228



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DISH**
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Chers lecteurs,



Pour la première fois les abonnés de Télé-satellite reçoivent le CD-ROM SatcoDX suite avec cette édition. Il contient une suite de logiciels compatibles avec les tables des satellites de SatcoDX et constitue à la base l'assistant de mise à jour SatcoDX qui charge la base de données complète de SatcoDX sur votre ordinateur dans des intervalles d'une heure. Une partie des applications de la suite SatcoDX charge la base de données directement, d'autres, permettent d'ajouter les données manuellement.

Tous les applicatifs de la suite SatcoDX sont optimisés pour la base de données de SatcoDX. Avoir une base de données à jour au bout du doigt est un ajout précieux au logiciel. Fini l'époque où vous deviez mettre à jour manuellement des listes satellites obsolètes ou deviez rechercher des listes actualisées auprès de multiples sources disponibles. Aucune autre liste satellite n'est mise à jour d'heure en heure, ce qui signifie que seulement les tables de SatcoDX sont maintenues à jour, à une cadence horaire.

Une des fonctions spéciales de l'assistant de mise à jour SatcoDX, est le fichier SatcoDX-all-transponders.csv. Ce fichier énumère tous les satellites avec leurs transpondeurs respectifs et de cette manière constitue le fichier de base idéal pour les récepteurs satellites. Non seulement ce fichier est aussi mis à jour à chaque heure, il contient également les TID (identification des transpondeurs) et les NID (identification des bouquets) les PID ainsi que la norme de modulation DVB-S ou DVB-S2 utilisée. Avec ces informations ce fichier devient une option facile pour constituer la base de données d'un récepteur. Naturellement

l'Assistant de mise à jour SatcoDX peut produire les tables de satellites dans aussi que dans les formats csv, xml ou sdx.

Evidemment, tout dans ces listes satellites de SatcoDX ne fonctionne pas encore parfaitement, mais tous ces problèmes seront résolus aussi rapidement que possible. Si vous voulez contribuer à rendre SatcoDX encore meilleur et plus précis et avoir votre propre station de réception vous pouvez regarder www.SatcoDX.com/autoscan pour plus d'informations.

Have fun checking out the 'SatcoDX Suite' software. The issue after the next will contain the next edition of the suite, while the coming issue will once again include the SatcoDX 'World of Satellites' CD-ROM - please have a look at the preview on page 114 as well.

Faites donc un essai avec cette suite logicielle de SatcoDX. L'édition suivant la prochaine contiendra la nouvelle édition de la suite, alors que la prochaine édition inclura de nouveau le CD-ROM le monde des satellites SatcoDX - veuillez svp aussi consulter l'annonce à la page 114.

**Amicalement
Alexander Wiese**

P.S. : Ma station radio préférée ce mois est Club Asia de Londres (11.222 EUROBIRD 1 par 28,5° Est), qui diffuse à profusion des hits indiens et pakistanais. J'aime vraiment leur générique qui pose la question « où étiez-vous quand vous avez entendu la première fois ceci », suivi d'un titre de Hit classique indien.

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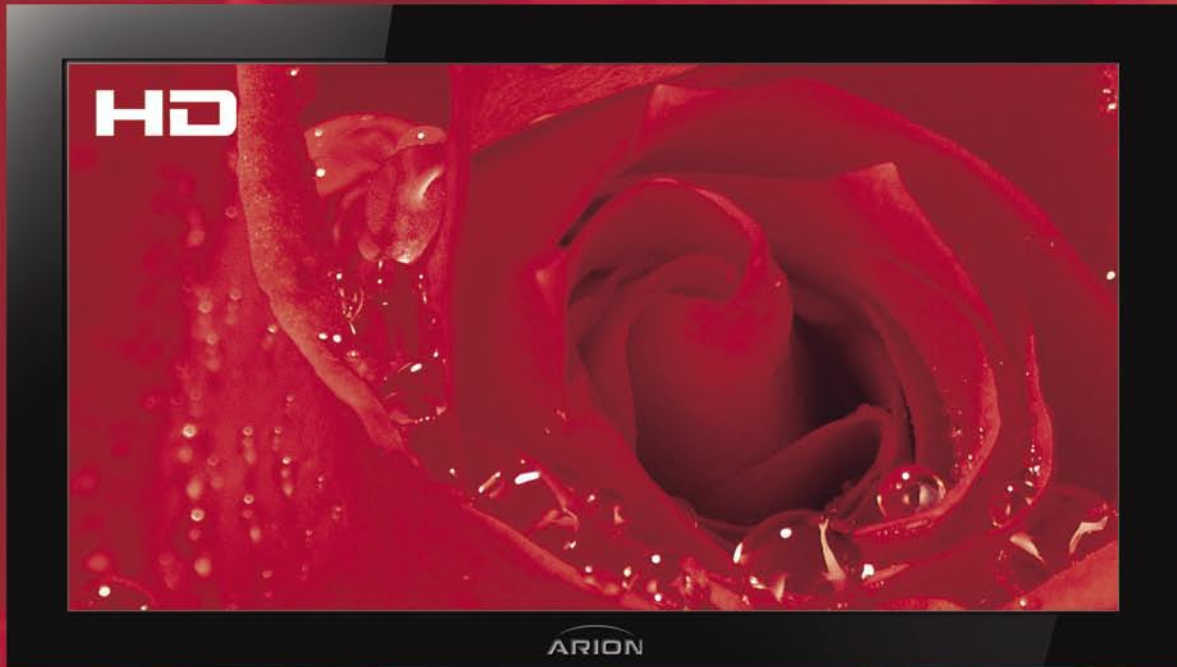
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12-16 September, 2008
Rai Amsterdam, the Netherlands
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Who makes HD quality?



Pure & Vivid HD picture / Stylish wide body (430mm) with VFD front panel display / Supporting 2 CAMs of DVB Common Interface Standard / Various Video Display Format With PAL/NTSC/576p/720p/1080i 50Hz/60Hz Support / HDMI Digital Audio & Video Output / Easy and Fast Auto Programming, Intuitive User Interface / Supports RS-232C port for S/W upgrade

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TECHNOLOGY
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High Definition Digital Satellite Receiver ARION AF-4000HDCI



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ARION Technology Inc. Tel +82-31-361-3000 / Fax +82-31-361-3099 / e-mail info@arion.co.kr

NEW TECHNOLOGIES – NOW ON STOCK

We are official **HUMAX** distributor

HDTV Receiver Selection

HUMAX

PR-HD 1000 / PR-HD 1000 C



HDTV for satellite and cable reception

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

HUMAX

iCORD



Twin HDTV PVR Receiver

- Recording 4 channels whilst watching a live tv or Play-back
- Time shifted recording for 2 hours
- Integrated 160, 320 or 500 GB HDD
- 1080i, 720p, 576p, 576i video resolution
- Audio decoding: Dolby AC-3 (Dolby Digital)
- AV File transfer by USB 2.0 port
- 2 Common Interfaces
- HDMI output

TOPFIELD

TF-7700 HD PVR



HDTV Digital Satellite Receiver with Personal Video Recorder

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

TOPFIELD

TF-7700 HSCI / TF-7700 HCCI



HDTV for satellite and cable reception

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

TOPFIELD

TF 6500T HDMI **NEW**



DVB-T Receiver

- HDMI outputport, 576p, 720p, 1080i
- Fully DVB-T compliant
- 2000 service TV & Radio programmable

TF 6000 FE

Digital Satellite Receiver

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

HUMAX F3 FOX CI



Digital Satellite Receiver with CI Slot

- Scrambled channel receivable with DVB CI.
- MPEG-II Digital & Fully DVB Compliant.
- Max. 4000 channels receivable.
- Channel list mode
- 4 Favorite channel groups
- DiSEqC version 1.0, 1.2 USALS compliant

Measuring Instruments



MEGALOOK

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

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



ALSO AVAILABLE:

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

DIGISAT PRO ACCU



Measuring instrument for dish-properties
Check two LNBS at the same time
With DiSEqC tester

ALSO AVAILABLE:

- Digisat
- Digisat+
- Digisat Pro
- Digisat Multi

DIGIAIR dB



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

- Frequency range of 47-862 Mhz
- Shows the signal strength in dBμV
- Shows the complete spectrum in one picture
- Presents one channel readout with high resolution or six channels simultaneously

Satlook Micro G2

NEW



- Measure on two LNB's at the same time
- Spectrum-analyzer with zoom function
- Super bright 3" LCD display
- Digital BER, QPSK and S/N-ratio
- Readout NIT -gives Satellite ID and TV/Radio-channel info
- DiSEqC according to level 1.0, 1.1 and 1.2

ALSO AVAILABLE:

Upgrade-KIT for Satlook Micro

You need a PC with internet-access in order to be able to upgrade Your old Micro with the new G2 version.

Satlook Micro G2 upgrade contains:

- CD with software
- New G2 carrying-case
- Owners manual

Satlook NIT Color

NEW



- DVB satellite-receiver 920-2150MHz
- Spectrum-analyzer with expanded spectrum
- 5" 16:9 LCD color display
- DVB-S (Free to Air) and Analog TV-picture
- Digital BER, QPSK and S/N-ratio
- DiSEqC according to level 1.0, 1.1 and 1.2
- KU- and C-band (normal/inverted video)

Türkçe konuşan personele sahibiz !

Мы говорим и даём консультации на русском языке!

ALPS

CIBERTINI

PREMIERE

Inverto

MTU

MICROELECTRONICS TECHNOLOGY INC.

Stab

NETWORK streaming clients

EMANVISION EV-8000S



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

TOPFIELD
TF-6000 PVR ES/WS



- Digital Satellit PVR with HDMI
- Wireless LAN with Fully DVB-S compliant
 - Two tuners with Dual Decoding (PIP)
 - HDMI Video/Audio Output
 - Integrated 160, 320 or 500 GB HDD
 - 5000 TV & radio services programmable

PCMCIA-Modules

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



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

Motors

Aktuatoren/ Actuators

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



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

LNBs

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



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

MAXIMUM

V-Series



AVAILABLE AS:

- V-1 Single
- V-11 Single + DiSEqC
- V-2 Twin
- V-40 Quattro
- V-4 Quad
- V-8 Octo
- V-21 Single Monoblock
- V-22 Twin Monoblock
- V-24 Quad Monoblock

Full LNB range MAXIMUM available from stock

Multiswitches / DiSEqC - Switches

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



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

SPAUN Full Range

Parts

Multifeederholder for 2, 3, or 4 LNB



Wallmounts

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



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

Remotesystems

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



Koaxialcable

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

INVACOM QDH 031



AVAILABLE AS:

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

Full LNB range INVACOM available from stock

MICROELECTRONICS TECHNOLOGY INC.

High-Line-Series



AVAILABLE AS:

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

Full LNB range MTI available from stock

Inverto digital-labs **NEW**

IDLP UST110-CUO10-8PP

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



UNICABLE TECHNOLOGY

Dishes

CIBERTINI TRIAX emme esse MULTIMEDIA SYSTEM



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

Big Dishes directly from our warehouse!

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

GIRTE

Flat-Dishes **NEW**

SELSAT H 10 D



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

MAXIMUM Flat-1



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

Multifocus Dish

MAXIMUM

E-85 Multifocus 48° Dish



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

Balcony mounting parts

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



ALSO AVAILABLE:

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



Edited by
Branislav Pekic

EUROPE

EUROPE

20 PERCENT OF EUROPEAN HOMES WITH HD BY 2012

New research from media analyst Screen Digest suggests that by 2012, only 20% of all European households with high definition (HD) displays will actually be watching in HD. By the end of last year 18% of the 165 million European TV households were equipped with HD displays, although less than 1% of these were fully HD-enabled (equipped with an HD set-top box and an HD subscription enabling them to watch HD broadcasts). The report identifies three "critical success factors" necessary for the technology to really take off in the region: penetration of HD displays, supply of HD content and the availability of HD broadcast platforms.

WORLDSPACE PARTNERS WITH STM FOR DIGITAL RADIO

STMicroelectronics has signed an agreement with WorldSpace Satellite Radio to develop, manufacture and distribute chips for European Satellite Digital Radio (ESDR) receivers planned for a WorldSpace pan-European and Middle East service offering, starting with Italy in 2009. The agreement between WorldSpace and ST is expected to lead to the first fully integrated device for channel decoding in ESDR receivers. ESDR technology enables WorldSpace to employ a hybrid satellite-terrestrial network.

AUSTRIA

TELEKOM AUSTRIA PASSES 50.000 AONTV SUBSCRIBERS

Telekom Austria has now reached 50,000 customers for its "AonTV" IPTV service. The operator is offering a basic package on AonTV for free for six months to subscribers who sign up before the end of September, as well as the set-top box for a discounted price of EUR 29.90.

BALTICS

BALTICS EYE IPTV GROWTH

The Baltic countries will enjoy significant growth in development of IPTV over the next five years, says a report released by industry analysts Screen Digest. According to the report, Estonia is set to lead the growth, as its Baltica DigiTV, which already occupies a significant proportion of the local pay TV market, is expected to reach 20% of Estonia's households by 2012.

VIGINTA OPTS FOR WIDEVINE CYPHER PROTECTION

Lithuanian telecommunications services provider Viginta has selected downloadable content protection from Widevine to secure content delivered over DTT, hybrid QAM (cable) and IPTV networks. Widevine Cypher will be used to manage the delivery of broadcast and video on demand content over its multiple networks delivery systems, which include MMDS, fibre rich Metro Ethernet and Hybrid Fibre Coaxial networks, to a range of consumer devices.

TEO ARRIVES TO 28.000 IPTV SUBSCRIBERS

Lithuanian operator TEO has released its results for the first half of this year and states that it now

has 28,000 subscribers for its IPTV service, up from 25,000 at the end of the first quarter of 2008.

BELARUS

BELTELECOM LAUNCHES IPTV SERVICE IN MINSK

Beltelecom has launched an IPTV service in Minsk and the new service will be deployed in other parts of the Republic from this autumn. General Director, Kanstantsin Tsikar, said that Beltelecom plans to charge a one-off payment of BYR 30,000 (USD 14) for IPTV subscribers, plus a monthly rental of BYR40,000. Beltelecom's IPTV offering currently carries 20 TV channels.

CZECH REPUBLIC

O2 ARRIVES CLOSE TO 100.000 IPTV SUBSCRIBERS

Telefónica O2 reached 98,000 subscribers for its O2 TV IPTV service by the end of the first half of this year, up from 87,173 at the end of March. Revenues from broadband-based services (ADSL, IPTV and content) rose 13.9% in the first half of this year relative to the same period of last year to reach CZK2 billion (USD133.5 million).

FRANCE

HD LICENSES AWARDED

French regulatory body Conseil Supérieur de l'Audiovisuel (CSA) has allocated an HDTV channel licence to Canal+ its pay-TV offering on DTT. CSA previously awarded free-to-air HD licences to TF1, M6, France 2 and Arte. Canal+ was the only payTV channel to apply for the HDTV licence.

FRANCE TELECOM IPTV SUBSCRIBERS UP 76%

France Telecom had a total of 1.54 million IPTV subscribers in Europe by the end of the first half of 2008, up 76% from 872,000 one year previously. The operator had 1.389 million IPTV subscribers in France alone, an increase of 65.9% by the same comparison.

GERMANY

DEUTSCHE TELEKOM SIGNS IPTV DEAL WITH MTV

Deutsche Telekom has signed a deal with MTV Networks Germany to offer the latter's content in the VOD library of the operator's IPTV service T-Home Entertain. Programmes cost EUR 0.99 for a 24-hour rental. T-Home Entertain customers will have unlimited access to all available content from Nickelodeon with a subscription to the 'Kids Selection' package, costing EUR 4.99 per month.

LIECHTENSTEIN

ERICSSON TO UPDATE TELECOM LIECHTENSTEIN'S NETWORK

Ericsson has signed an agreement with Telecom Liechtenstein to upgrade and expand their ADSL network with the new VDSL2 technology. VDSL2, based on Ericsson's advanced EDA1200 product, enables Telecom Liechtenstein wide deployment of multiparty services e.g. voice, video and data as well as HDTV, IPTV, Video on Demand, high speed Internet access and interactive gaming. Network deployment and integration has already started.

POLAND

TP TO LAUNCH ORANGE TV SERVICE

Poland will be the next country to get an Orange TV service under plans unveiled by Telekomunikacja Polska (TP), majority-owned by France Telecom. TP, which already operates the Orange

mobile network in Poland, has now acquired rights to extend its usage of the brand across TV, internet access and other activities. TP said it would roll out the service in Poland within the next 12 months.

PORTUGAL

MEO IPTV SERVICE REACHES 100.000 SUBSCRIBERS

Portugal Telecom said its new Meo IPTV and satellite pay-TV service has reached 100,000 subscribers since its launch in April. The operator said Meo subscribers account for 15 per cent of its ADSL clients, adding that net subscriber additions in the second quarter have totalled over 53,000.

ROMANIA

ROMTELECOM TO LAUNCH IPTV TRIAL

RomTelecom will begin IPTV trials later this year, according to its TV business manager Mirosław Smyk. The Romanian incumbent already offers pay-TV via a DTH platform with more than 500,000 subscribers.

RUSSIA

SISTEMA CHOOSES NDS FOR IPTV AND MOBILE TV

Sistema Mass Media (SMM) has selected the NDS Unified Headend to manage and protect TV content delivery to subscribers across both IP and mobile networks. The NDS Unified Headend integrates CA, DRM and third party applications, allowing operators to deliver secure broadcast and VOD services to a variety of devices - set-top boxes, mobile phones, PCs, Portable Media Players and digital video recorders.

SCANDINAVIA

VERIMATRIX SECURES TELIASONERA'S IPTV SERVICE

TeliaSonera has deployed the Verimatrix Video Content Authority System (VCAS) for the tier one telecommunications operator's successful IPTV services in the Nordic region, Estonia and Lithuania. Telia Digital-TV, which was one of the first IPTV services in Europe to launch in 2005, offers subscribers 70 channels such as Discovery and the Disney Channel and a 24-hour on-demand library of movies.

TELIASONERA ARRIVES TO 430.000 IPTV SUBSCRIBERS

TeliaSonera reached nearly 430,000 subscribers for its IPTV service across all markets by the end of the second quarter of this year, with total pay-TV customers including cable and satellite operations reaching a total of 816,000. The telco had 320,000 IPTV subscribers in Sweden alone by the end of the second quarter of this year, adding just 2,000 in the period, this gives a year on year increase of a respectable 162,000 customers. The number of IPTV subscribers in Norway alone doubled to 8,000 between April and June, while in Lithuania the figure rose by 10,000 to reach 35,000, and in Estonia the company added 4,000 subscribers to reach 64,000.

THOMSON TEAMS UP WITH TELENOR FOR IPTV DEPLOYMENT

Telenor has selected Thomson to provide services and hardware to assist it to deploy IPTV services in Norway, Sweden and Denmark. Thomson will providing Telenor with its SmartVision video services platform, which incorporates middleware, video on demand (VoD) servers and two ranges of IP set top boxes (the DBI2210 and the DBI8500 with integrated hard drive for personal video

recording). Additionally, Thomson is integrating a conditional access content protection application from Conax.

SLOVENIA

TELEKOM SLOVENIJE IPTV MARKET LEADER

Telekom Slovenije has seen its share of the national IPTV market fall by three percentage points year on year in the first quarter of 2008 to reach 60.4%, according to a report by the Agency for Post and Electronic Communications (APEK). Alternative operator T2 followed in second place with a gain of just under 1% to reach a 36.3% share of Slovenia's IPTV market, with Amis and Tus Telekom accounting for the remainder.

SPAIN

GREEN LIGHT FOR HISPASAT TAKEOVER

Several Spanish companies including Abertis won permission from the European Commission for a joint venture to control Spanish satellite operator Hispasat. The companies involved, besides Abertis, include SEPI, CDTI, and INTA. Although the Commission said the deal had raised questions about vertical overlaps because Abertis ran terrestrial transmitters for TV stations and also bought satellite capacity, it decided to authorise the deal.

SWITZERLAND

NETSTREAM SELECTS ENTONE FOR IPTV DEPLOYMENT

Swiss ISP Netstream has selected customer premises equipment from US firm Entone for its high-definition IPTV service deployments in the country. Netstream is a provider of managed services and systems integration to a number of operators in Switzerland, and selected Entone's Hydra HD IPTV video gateway and Amulet HD IPTV receiver for the service deployments.

TURKEY

TURKEY PREPARES TWO NEW SATELLITES

Having successfully launched Turksat 3A in June, Turksat is preparing to launch two others, Turksat 4A and 5A. The Turkish satellite operator will decide on the features of Turksat 4A in August and launch it in 2011. Turksat 4A will offer broadcasting services covering the Middle East, Central Asia, South Asia and Africa. Work on 5A will begin in Turkey and will be completely done by Turkish engineers, with plans for a launch in 2013 or 2014.

UNITED KINGDOM

BBC LAUNCHES HD TESTS ON FREEVIEW

The BBC has begun DVB-T2 test transmissions from the Guildford transmitter southwest of London, in preparation for HD on Freeview. This follows the approval by the DVB Project of the DVB-T2 specification and this will be the first time signals compliant with the DVB-T2 specification will be broadcast. DVB-T2 is the next generation digital terrestrial transmission standard for new HDTV services on Freeview. DVB-T2 can provide more capacity and this will be essential for HDTV services to be launched on Freeview, currently planned for the end of 2009.

BBC TO LAUNCH UHD TV TRIALS

In conjunction Italian and Japanese public broadcasters RAI and NHK, this September the BBC will begin trials of Ultra High Definition (UHD) TV. UHD, also known as Super Hi-Vision, produces a resolution of 7,680 × 4,320 pixels which is around four times as wide and four times as high as existing High Definition TV. With 4000 Scanning Lines, NHK is promising consumers an experience which feels close enough to reality to make them want to reach out and touch the on-screen action.

BT ENDS FIRST HALF WITH 282.000 IPTV SUBSCRIBERS

British Telecom has signed up 68.000 customers to its pay-TV service BT Vision during the three months to June 30. The company, which launched the IPTV service commercially last summer, ended June with 282.000 BT Vision customers. While customers can sign up to BT Vision without actually taking a monthly subscription, to make the service profitable, BT needs customers to take out regular subscriptions.

NORTH AMERICA

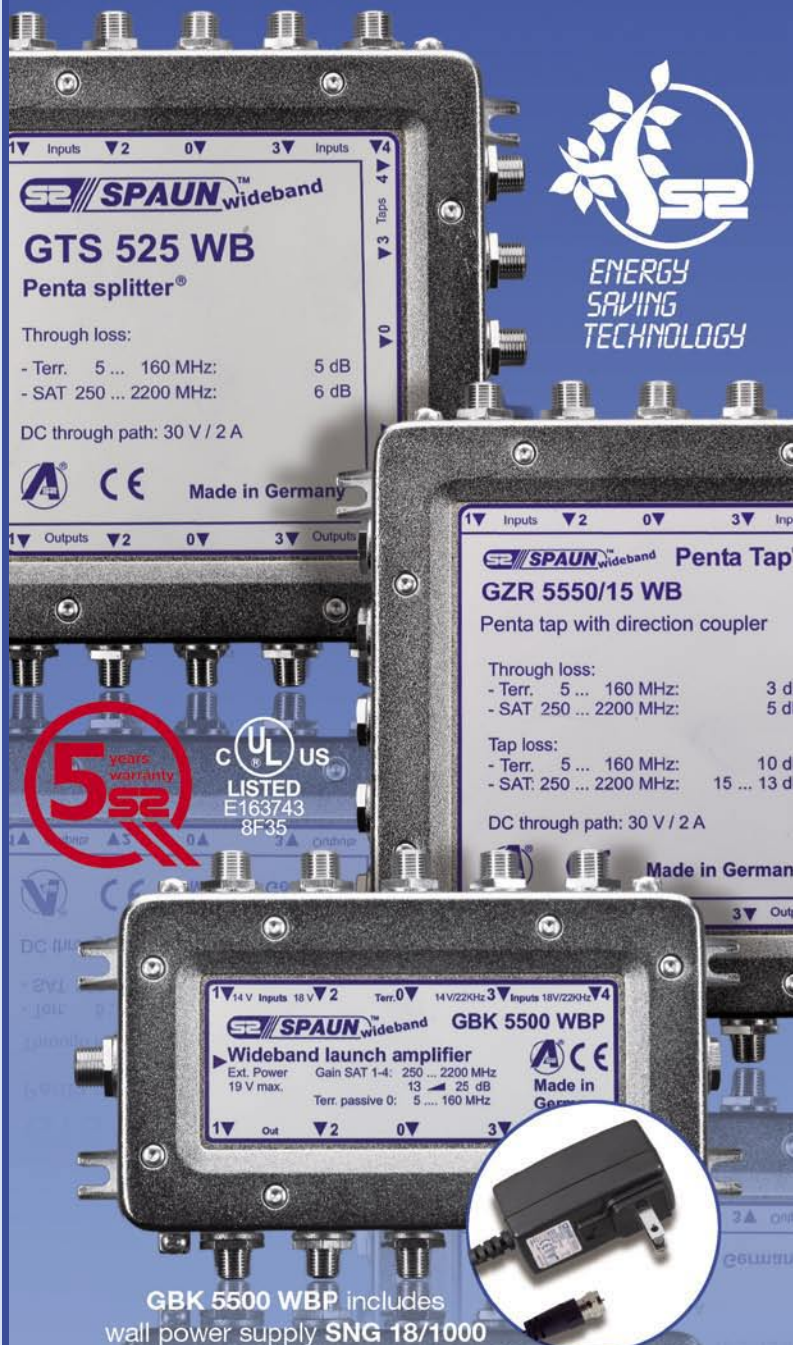
IPTV SUBSCRIBERS TOP 1.8 MILLION IN 2007

The number of IPTV users in the Americas surged to 1.8 million by the end of last year, up 257.1% from 501,000 in December 2006, according to a recent report by iSuppli. The majority of that growth came from

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two leading U.S. telecom operators, AT&T and Verizon, which continued to expand their fiber-optic IPTV networks throughout 2007, and collectively served almost 1.2 million IPTV customers by year's end. This represents growth of 294.9%, from a mere 296,000 subscribers at the end of 2006.

ESPIAL TO ACQUIRE KASENNA

Canadian IPTV middleware vendor Espial Group said it will acquire Kasenna, a competitor based in California, in a USD6.5 million move that will aid consolidation in the fragmented IPTV middleware sector. According to Espial, the combined company will have more than 100 service provider customers supporting about 2.4 million IPTV customers. Kasenna customers include Cavalier Telephone, CenturyTel, Fast-Web, Kentucky Telephone, SaskTel, Tennessee Telephone, Time Warner Cable, Charter Communications and Knology. The IPTV middleware market also includes companies such as Minerva Networks, Innovate Systems, Quative, Thomson, Nokia Siemens Networks and many others.

CANADA

HDTV SIGNS EXCLUSIVE DEAL WITH SMITHSONIAN NETWORKS

Canadian HD broadcaster High Fidelity HDTV Inc. and Smithsonian Networks of the USA have signed an exclusive programming agreement under which programs from the US service Smithsonian Channel HD will be broadcast on Oasis HD, Equator HD and Treasure HD, three of the all-HD channels operated by High Fidelity in Canada.

UNITED STATES

DISH NETWORKS OFFERS HDTV IN 61 MARKETS

Dish Network said it now offers local HD channels in 61 markets, accounting for 68% of the country. The company will also add local HD in 22 additional markets by the fall, including Albany (NY) and Scranton (Pa). Eric Sahl, a Dish senior vice president, said the company is "aggressively moving forward with plans to reach 100 HD local markets and 100 national HD channels."

MONSTER CABLE OFFERS HDTV TRANSMITTER

Monster Cable will offer a wireless transmitter for HDTV signals that will connect a home theater's TV set with a digital signal box or DVD player. The wireless system is comprised of a receiver that plugs into the HDTV's HDMI port along with a transmitter unit that will hook up with the signal source. Called Monster Digital Express HD, the set-up will also upscale non-HD signals to HD resolution. The system is able to transmit a video signal up to 30 feet away using the ultra-wide-band (UWB) technology from Sigma Designs.

AT&T LAUNCHES HDTV STREAMS

AT&T Inc's U-verse IPTV service has started offering concurrent high-definition (HD) video streams to residential consumers in some markets. Other IPTV services, including Verizon FIOS, already support concurrent HDTV streams, allowing users to view one program in HD, while recording another on a DVR at the same time.

COMCAST TO INTRODUCE DIGITAL BOXES FOR HDTV

Comcast is expected to order up to six million digital converter boxes this year in an effort to create more space for High-Definition channels, according to Multichannel News. Comcast plans to use the digital converter boxes to eliminate the need to transmit analogue signals. The converter boxes will be issued to customers who now own

analogue sets. The operator hopes to switch over 20 per cent of its entire subscriber base to all-digital in 2008. Next year, the cable operator will likely order another 12 million converter boxes to continue its phasing out of analogue signals.

GLOBECAST INVESTS IN HDTV UPGRADES

GlobeCast has completed the next phase of its U.S. HD strategy with the installation of state-of-the-art encoding and converting equipment at its broadcast centre in Culver City, California. Using gear that includes MPEG-2 and MPEG-4 HD decoders as well as the Snell & Wilcox Alchemist Ph.C HD standards converter with motion compensation, GlobeCast can receive and process HD signals into any international format. GlobeCast can also down convert to SD and deliver the signal worldwide using a combination of MPEG-2 and MPEG-4 HD/SD compression. GlobeCast also offers advanced modulation standards such as DVB-S2 to maximize capacity.

IPTV NETWORK SERVICES SELECTS LATENS

IPTV Network Services, a consortium of several IPTV service providers in the state of Utah, has successfully deployed the Latens ECOSystem (ECO) to enable its IPTV offering. Latens ECO provides IPTV Networks with a single platform comprising next generation middleware and Latens' highly regarded Conditional Access for the secure delivery of advanced content services. The affiliates of IPTV Network Services have been offering telecommunications services to over 45,000 residences and businesses in many counties.

VERIZON TO MAKE AVAILABLE 150 HD CHANNELS IN NYC

Verizon Telecom has launched FIOS services with 100 high-definition channels in parts of New York City, announcing the availability of 150 HD channels by the end of this year in sections of New York City and some other areas of the US. FIOS TV service packages start at USD 94.99 per month with 54 free HD channels.

ECHOSTAR XI SATELLITE LAUNCHED

DISH Network Corp's plan to roll out more high-definition video channels received a boost on July 16 after the successful launch of the company's EchoStar XI broadcast satellite. DISH needs to roll out more HD channels to be able to compete with larger rival DirecTV Group, as well as cable and phone companies' video services. DISH said it would add another 17 national HD channels, bringing its total to 100 ahead of its original year-end target. DirecTV has said it will have 150 HD channels by the year-end. DISH also said it would introduce TurboHD, an all-HD programming package.

XM SATELLITE AND SIRIUS COMPLETE MERGER

XM Satellite Radio and Sirius Satellite Radio have completed their long-pending merger. The combined company will use the name Sirius XM Radio Inc and expects cost savings of about USD 400 million in 2009 and to post EBITDA of more than USD 300 million. The new company said it has 18.5 million subscribers

LATIN AMERICA

COLOMBIA

ETB TO LAUNCH IPTV IN MARCH 2009

ETB plans to start tests of an IPTV service in November of this year and launch by March of next year, according to new company CEO Fernando Panesso. He said that the telecom operator will invest COP87 billion (USD51 million) in the roll-out of IPTV in Colombia, despite regula-

tory uncertainties. ETB does not have a pay-TV licence as required by the National Television Commission, but does have a licence to operate IPTV as a value-added service, as directed by the Colombian Communications Ministry.

UNE-EPM LAUNCHES IPTV SERVICE

Une-EPM Telecomunicaciones has launched IPTV services in the capital Bogotá and also Medellín, according to local newspaper La República, becoming the country's first IPTV operator. The service includes 105 video and 50 audio channels, as well as PPV and VOD, with films costing between COP 3,500 (USD 1.95) and COP 4,700. Subscription plans cost COP 90,000 to COP 244,000 per month in Bogotá.

ASIA & PACIFIC

2008 KEY FOR HDTV IN ASIA

Major pay-TV operators in the Asia-Pacific, Middle East and Africa expect to carry more than 340 HD television channels by 2013, up from 32 channels currently, according to a new Euroconsult report commissioned by Malaysian satellite operator Measat. By the end of the year, 70 per cent of the 25 platforms surveyed - including 21 in Asia - expect to be offering HD content, the report found. According to the report, 12 per cent currently offer HD services. The number of HD channels being offered by the platforms is forecast to reach 107 by mid-2009, 226 in 2011, and 341 in 2013. Over the next three to five years, HD will expand from between three and five channels to an average of 15 channels.

AUSTRALIA

FOXTEL INTRODUCES NEW HD STB

Foxtel has rolled out a new service, Foxtel HD+, to old and new customers with five dedicated 24/7 HD channels along with HD movies on demand, powered by a new set-top box - the iQ2. The new digital box has a 320GB hard drive to fit up to 30 hours of HD content and up to 90 hours of standard definition programs. Four tuners are aboard the iQ2. Two enabled at launch will allow for simultaneous recording and viewing, one is reserved for Foxtel On Demand and the fourth is listed by Foxtel to be "enabled in the future". New channels and on-demand HD movies are broadcast in 1080i, except for ESPN HD in 720p.

CHINA

CCTV LAUNCHES TERRESTRIAL HDTV

CCTV's HDTV channel started broadcasting in Shanghai in June, using the national standard single-carrier wave technology developed by Shanghai HDTV and Jiaotong University. Preparation is underway for similar broadcasts in Tianjin, Shenzhen, Qingdao, Shenyang, Qinhuangdao, and Guangzhou.

CHINA TELECOM WITH 940,000 IPTV SUBSCRIBERS

China Telecom has in excess of 940,000 subscribers for its IPTV service, and expects to pass a million subscribers very soon. The service, provided in cooperation with Shanghai Media Group (SMG), has been available in Shanghai, Jiangsu, Guangdong, Zhejiang and Shaanxi since 2005 and offers broadcast and on-demand content, as well as information services. Rival China Netcom, meanwhile, offers IPTV services in six cities including Beijing, Harbin and Shenyang, with a reported 100,000 subscribers as of May 2008.

ZHONGXING-9 SATELLITE LAUNCHED

China on June 9 launched a French-built communications satellite that was used for live TV broadcast

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of Beijing Olympics in August. The Zhongxing-9 satellite was built by Thales Alenia Space for China Satellite Communications Corporations (Satcom), one of the six basic telecommunications operators in the country under the Ministry of Information Industry.

INDIA

AKSH LAUNCHES IPTV WITHOUT BROADBAND CONNECTION

Aksh Optifibres in association with telecom firm MTNL has launched country's first IPTV service which can be viewed without any high speed broadband connection. The company plans to invest around Rs 150 in its icontrol IPTV platform in Mumbai and Delhi, which would provide more than 100 channels to its customers. It carries all the major popular entertainment channels from the Star and Sony group and sports channels from Neo and Ten Sports. Aksh has also entered with an agreement with telecom giant BSNL and MTNL, aiming for a strong presence in urban and rural areas where the government-controlled telecom firms have vast subscriber base.

BHARTI AIRTEL LAUNCHES IPTV WITHOUT AUTHORISATION

The Information and Broadcasting (I&B) ministry has asked the Department of Telecom (DoT) to initiate action against Bharti Airtel for launching IPTV services without obtaining the requisite approvals. While, Bharti in its response has said it has not launched commercial IPTV services, but was only doing pilots, the I&B ministry has told the DoT that private telcos have not been cleared to offer this service.

MTNL PROVIDES 74 IPTV CHANNELS

MTNL is currently providing as many as 74 channels through their IPTV service, compared to just around 26 free-to-air channels during launch. The company has signed up a deal with Time Broadband Services and its Israeli partner Optibase for developing and handling the content delivery network for its IPTV services. They are currently using Optibase's IPTV MGW 5100 platforms for its digital IPTV head-end operation at the company's network operating centre. Time Broadband is now preparing to deploy IPTV services on both TV & PC delivery.

MINISTRY ACCEPTS IPTV RECOMMENDATIONS

India's Ministry of Information and Broadcasting has accepted recommendations from the Telecoms and Regulatory Authority of India (TRAI) for IPTV, according to local reports. The uplinking/downlinking norms will be amended to enable all broadcasters to provide signals to all distributors of TV channels, including IPTV operators, TRAI has also received a consensus from broadcasters to adopt non-discriminatory price regime on the composition of channel bouquets and the pricing of channels on an a-la-carte and bouquets basis for IPTV services.

INDONESIA

BNS TO DESIGN HD IPTV PLATFORM FOR PT

IP solutions provider BNS has been appointed by Indonesian telecommunications provider PT. Multi Kontrol Nusantara (MKN), a subsidiary company of Bakrie Group, to design and procure a turnkey HD & SD IPTV service platform. BNS's IPTV Service Platform design will enable MKN to deliver high and standard definition video services, including multicast, VOD, Network PVR, Time-Shift-TV, eShopping, games and others.

ISRAEL

SPACECOM TO PURCHASE AMOS 5 SATELLITE

Spacecom Satellite Communications will buy the Amos 5 communications satellite from Russia's JSC Academician MF Reshetnev Informa-

tion Satellite Systems for USD 157 million. The Amos 5 satellite is scheduled for delivery and launch by March 31, 2011, and is due to operate for 15 years. Spacecom can cancel the agreement to buy the Amos 5 up to the launch if the satellite cannot be delivered, if it is found to be flawed during ground tests, or if it is lost after launch.

JAPAN

SKY PERFECT JSAT CONSIDERS HDTV

Sky Perfect JSAT Corp. is exploring the option of expanding its satellite television business by launching a broadcasting-satellite-based digital service in 2011 to complement its communications-satellite TV offerings. In the communications-satellite TV service, the company plans to start offering 12 high-definition TV channels in October. By 2011, the number is expected to be raised to nearly 100, roughly half the firm's communications-satellite TV channels. "We aim to become one of the top high-definition TV broadcasters in the world," said Chairman Masanori Akiyama.

JAPANESE COMPANIES AGREE ON IPTV STANDARDS

Telecoms companies Nippon Telegraph and Telephone (NTT), KDDI and Softbank BB have teamed together with technology vendors including Sony, Matsushita Electric Industrial, Toshiba, Sharp and Hitachi, as well as the country's five major commercial TV broadcasters and public broadcaster NHK. The companies expect to draw up unified IPTV standards and urge local IPTV operators and consumer electronics manufacturers to develop compatible technologies and equipment.

KAZAKHSTAN

KAZSAT-1 LOST

Kazakhstan's sole communications satellite, used by many of the country's TV broadcasters, is out of control due to a computer glitch and is likely to be lost altogether. Kazakhstan launched the Russian-built KazSat-1 satellite in June 2006, the first of four which it aimed to have in orbit by 2020 and which it said would establish the Central Asian country as a global space power. The head of Kazakhstan's National Space Agency, Talgat Musabayev, said the satellite has been out of touch since June 8 and could no longer be controlled from a space command centre in neighbouring Russia.

MALAYSIA

TELEKOM MALAYSIA TO LAUNCH IPTV IN 2009

Telekom Malaysia is to launch IPTV commercially in the second quarter of next year, as part of its drive to increase the usage of broadband services in the country, the company's CEO Datuk Zamzam-zairani has said. Telekom Malaysia has reportedly been conducting trials in 400 homes in the Klang Valley, as well as in Kulim and Penang. When asked about channel offerings on the new service, the executive said that this is still in development.

NEW ZEALAND

SKY TV TO INVEST USD 17.5 MILLION IN HDTV

SKY TV, which is controlled by Rupert Murdoch's News Corporation, will spend \$NZ22 million (USD17.5 million) over two years on high-definition broadcasts. The broadcaster said it aimed to get 80,000 set-top boxes installed. The new high-definition set-top boxes would cost \$NZ599, or may be rented for \$NZ15 a month. Sky TV's HD content is via a My Sky HDi set-top box that is identical to that offered by Foxtel. Sky TV subscribers also have access to five channels; Sky Sport 1 and 2, Sky Movies, Sky Movies Greats and free-to-air channel TV3.

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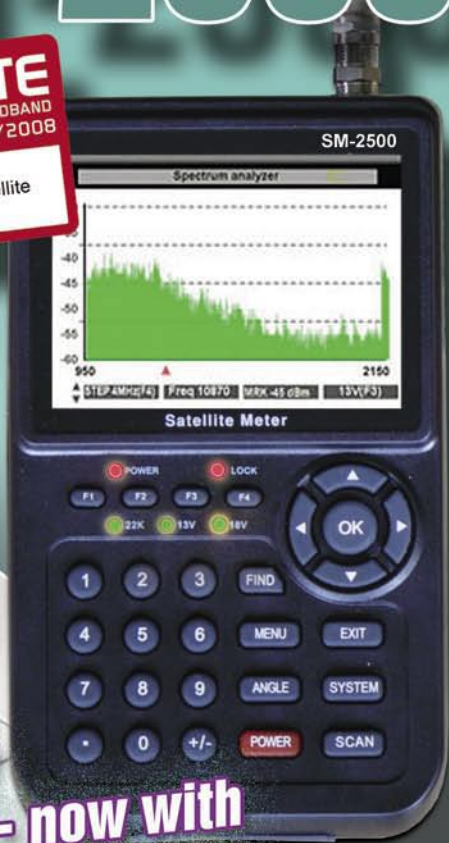
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SINGAPORE

MIO TV TO AIR CONTENT FROM HOLLYWOOD STUDIOS

Disney-ABC, Warner Bros. and 20th Century Fox will air more than 50 series on Singapore's Mio TV IPTV platform in a first-of-its-kind syndication deal with the country's dominant telecom, SingTel. The exclusive deal with the one-year-old platform will see series air as early as 24 hours after their U.S. broadcast. Financial terms of the licensing agreements were not disclosed. The exclusive on-demand window will last five to six months.

STARHUB TO ADD FIVE HDTV CHANNELS

Pay-TV operator StarHub plans to be offering five high-definition channels on its digital cable platform by the end of this year, including a sports service. HD5 and Sports HD have already joined the existing National Geographic Channel HD and Discovery HD. A fifth high-definition channel will be up and running by year end.

SOUTH KOREA

CABLE OPERATORS CRITICISE IPTV ACT

Cable TV operators have protested against the IPTV Act prepared by the Korea Communications Commission, saying that it is disappointing to cable TV and the entire broadcasting industry as the Act is biased in favor of certain communications operators, especially KT. The KCC's IPTV Act confirms accounting separation that all backbone operators are subject to is enough to prevent them from transferring their dominating power. In addition, the IPTV act also includes PAR or Program Access Rule that cable networks have opposed, citing that the rule might cause infringement on content providers' property rights and disrupt the nation's content industry, the companies said.

THREE IPTV OPERATORS SELECTED FOR PILOT PROJECT

Korea Communications Commission has selected KT Consortium, Hanaro Consortium and LG Dacom Consortium for a pilot project of convergence of broadcasting and telecommunication. The selected consortium, run with 3 billion won of the public and private matching fund, plans to provide contents owned by national and public institutions to subscribers so that they can see the contents at home through IPTV. It will kick off pilot service for 600 households in December.

SRI LANKA

SRI LANKA TELECOM PICKS UTSTARCOM IPTV SOLUTION

UTStarcom has signed a contract with Just In Time Holdings to supply its RollingStream end-to-end IPTV solution to Sri Lanka Telecom (SLT). SLT will use the RollingStream platform to bring IPTV services to its growing customer base throughout Sri Lanka. SLT, with more than 87 per cent market share and a subscriber base of more than 1.300.000 customers, expects to grow its residential and commercial business through its increased triple play capabilities now available with this IPTV deployment.

AFRICA

SOUTH AFRICA

MULTICHOICE LAUNCHES HDTV

MultiChoice launched HDTV in the South African market in July, the first of its kind in Africa. The Beijing Olympics were the first event to broadcast in HD format at the beginning of August. A new M-Net HD channel will launch at the end of August when HD PVR decoders will go on sale at major retail stores throughout the country at the price of R2499.00 (for a limited period only). To view Dstv channels in HD, a customer will need a Dstv decoder.

WORLD

AFN TO GO HD BY 2014

American Forces Network won't convert its satellite broadcast to a system that's compatible with high-definition television until 2013 for Pacific viewers and 2014 for viewers in Europe, according to Larry Sichter, Defense Media Center public affairs officer. AFN's current digital compression system packs 10 channels into a slither of satellite broadband. AFN will announce and publicize the exact details of its conversion plans sometime within the next 12 to 18 months.

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NanoXX 9300C

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- + QAM 16, 32, 64, 128, 256
- + USB1.1 Plug for Software + Channellist Upgrades + JPG-Foto Show
- + 1 Smart Card Reader for Conax, X-Crypt, DG-Crypt, Firecrypt and Crypton
- + 2 Common Interface Slots



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Matching LNB and Dish Type

Jacek Pawlowski

While satellite enthusiasts in Europe are very familiar with offset dishes, their counterparts in Asia may be more familiar with primary focus antennae. Both antenna types require different LNB's. LNB's differ in the reception band: C/ Ku/S-Band and the polarization: linear or circular. You have to match the band and polarization with the signal you want to receive but you still can receive it with either a primary focus or an offset dish.

LNB noise performance may be expressed either as noise figure (dB) or noise temperature (K). Those values are correlated - knowing one of them, you may calculate the other. This not a real difference but something like expressing the speed in km/h or knots.

But there is yet another parameter that you need to know when building your reception system. This is the f/D ratio of your dish and the f/D your LNB is design for. f/D is a parameter telling you what part of the paraboloid has been "cut off" to form a primary focus dish. As you can see in Figure 1, D is a diameter of a dish and f is the focal length. Typically, the primary dishes are manufactured with the $f/D = 0.28 \sim 0.42$. To achieve the top performance, your LNB should have the same f/D as your dish.

That's because the LNB should have a proper viewing angle (feedhorn beamwidth) to "see" the whole reflector but not more. In other words, the f/D parameter defines the viewing angle of the feedhorn.

There is a picturesque mathematical formula that enables us to calculate this angle for a primary focus dish:

$$\theta = 2 \cdot \arctan \left(\frac{8 \cdot \frac{f}{D}}{16 \frac{f^2}{D^2} - 1} \right)$$

If you do not have your calculator handy, you may refer to the table we prepared for you! (table)

And now, probably the most important fact: the LNB's dedicated for offset dishes

f/D ratio	Feedhorn beamwidth [°]
0.28	167
0.30	159
0.32	152
0.34	145
0.36	139
0.38	133
0.40	128
0.42	123

will see only a portion of the reflector. The output signal will be much smaller.

How much smaller? In our example ($f/D=0.38$) the LNB will see only 58% of the reflector diameter. For example, if the actual dish has a diameter 165 cm, we can expect a performance typical for a 96 cm dish. You will get antenna gain and directional characteristics equal to 96 cm primary focus dish. Big difference, isn't it?

So, perhaps we can win something installing a prime focus LNB on an offset dish? Absolutely not! See Figure 2. Such an LNB will see much more than a reflector only and that means it will pick up a lot of noise from the environment. The reception will be hardly possible.

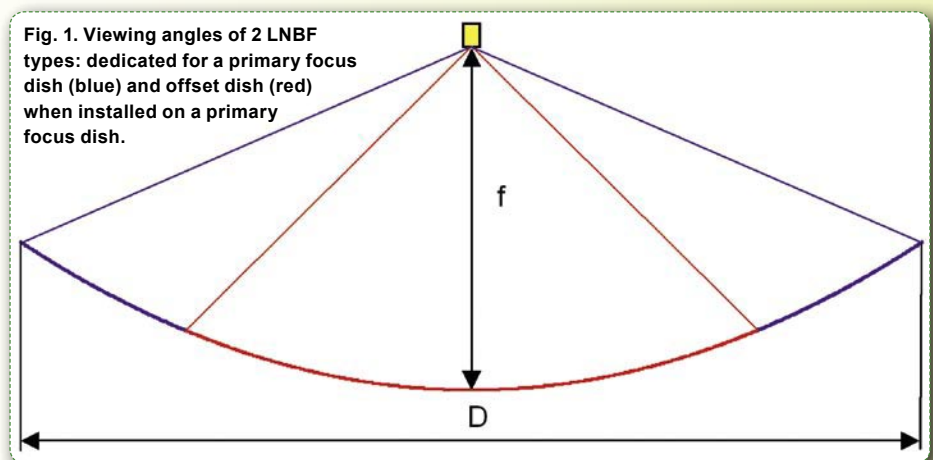


Fig. 1. Viewing angles of 2 LNB types: dedicated for a primary focus dish (blue) and offset dish (red) when installed on a primary focus dish.

have the f/D parameter equal to 0.6. It means viewing angle 80°. The angle is calculated in accordance with a different formula because D is defined differently for an offset dish. But the most important fact is: the angle is much smaller for this kind of LNB.

We illustrated this in Figure 1. If you install a proper LNB on the dish ($f/D=0.38$ in this example), its viewing angle will match the reflector size. But if you install an LNB dedicated for offset antenna ($f/D=0.6$), it

If the pictures look a bit strange to you, take into account that on both of them the satellite signal is coming vertically from top to the bottom.

The final conclusion is that you cannot use a primary focus type LNB on an offset dish but you can use an offset type LNB on a prime focus dish. But in the latter case you will get a performance equal to a much smaller dish: 40-60% of the actual diameter depending on the f/D parameter of a real dish.

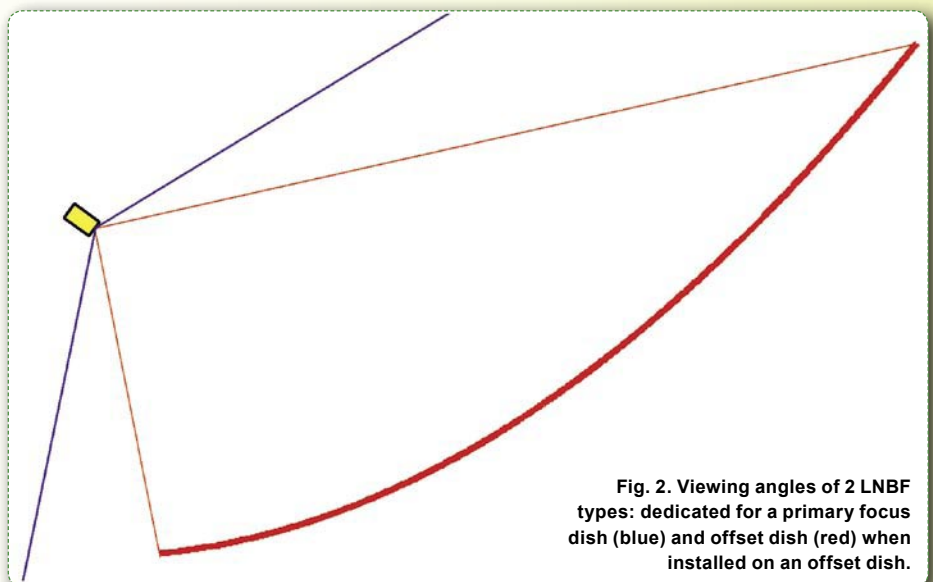


Fig. 2. Viewing angles of 2 LNB types: dedicated for a primary focus dish (blue) and offset dish (red) when installed on an offset dish.



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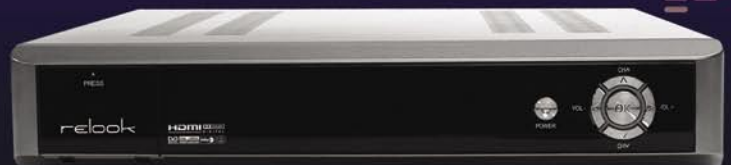
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Topfield TF7700HSCI

Récepteur PVR pour la TVHD avec des extras

Dans les quelques dernières éditions de Télé-satellite nous avons déjà présenté des récepteurs compatibles HD du fabricant d'appareils haut de gamme Topfield, en particulier le modèle le plus complet, le TF7700HDPVR avec deux syntoniseurs, la fonction PVR et son unité de disque dur intégré (édition 03/2008).

Topfield a entendu tous ces souhaits et a développé le nouveau modèle TF7700HSCI : un récepteur à simple-tuner TVHD DVB-S2. Le panneau arrière

comprend une interface USB qui sert à brancher une clef USB ou une unité de disque dur externe. Pour le reste, le TF7700HSCI est un récepteur CI qui peut traiter



Le fabricant a vite réalisé que beaucoup de consommateurs ne sont pas des inconditionnels de la TV et n'ont donc pas nécessairement besoin d'avoir un récepteur à deux syntoniseurs. Ce nombre pourrait être encore plus élevé si les émissions enregistrées sur une unité de disque dur externe pourraient être reproduites en différents endroits tels que sur un deuxième récepteur dans la chambre à coucher, dans la cabane de week-end, pendant les vacances, au camping, etc. On pourrait même employer plusieurs disques durs externes pour constituer de petites archives vidéo ou mettre en place une certaine organisation dans vos archives vidéo existantes.

la DVB-S, DVB-S2-QPSK et DVB-S2-8PSK.

Le TF7700HSCI est un récepteur visuellement agréable. Il est monté dans un grand boîtier noir de 43cm de large qui s'adapte parfaitement dans presque meuble de téléviseur. Un affichage VFD extrêmement facile à lire se met en évidence au centre du panneau avant et montre le numéro du canal activé et, en mode 'veille', l'heure actuelle.

Cinq boutons vous permettent d'actionner le récepteur en absence de sa télécommande et deux logements CI cachés derrière un clapet sont compatibles avec tout module correspondant possible (Irdeto, Seca, Conax, Viaccess, Cryptoworks, Nagravision, etc.).

Enregistrez vos émissions télévisées préférées sur un disque dur externe par l'intermédiaire du port USB

Et même la vue du panneau arrière mettra un sourire de satisfaction sur votre visage : en plus du raccordement HDMI que vous espéreriez trouver sur un récepteur TVHD, il y a égale-

ment deux connexions Scart ainsi que six bornes RCA pour les sorties de l'audio stéréo, la vidéo, le YUV, une sortie audio numérique optique, une interface RS-232, un raccordement serveur USB 2.0 et, naturellement, l'entrée IF avec sa sortie en boucle. Topfield a également inclus un petit commutateur sur le panneau arrière qui vous laisse choisir si la sortie du signal vidéo est envoyé au HDMI, aux bornes YUV ou aux Scart et se met ainsi en accord avec les réglages sélectionnés dans le menu principal.

La télécommande fournie se

reçue au sujet la liste de satellites et de transpondeurs obsolète et a effectué une révision. Par conséquent, maintenant presque les stations HD peuvent être trouvées sur toutes les positions satellites connues. N'oublions pas que des nouvelles chaînes en HD font leur apparition sur les différentes positions chaque semaine qui tout naturellement n'auront pas encore été programmées dans le récepteur. Nous ne pouvons pas vraiment blâmer le fabricant pour ceci.

Heureusement, il est vraiment très facile d'ajouter de nouvel-

possibles commence avec la mise à jour automatique de l'horloge interne et, contrairement aux récepteurs de beaucoup d'autres fabricants, l'heure d'hiver ou d'été peut être activée avec la poussée d'un bouton.

La communication avec le récepteur peut se faire en allemand, anglais, français, italien, espagnol, arabe, grec, turc, suédois, danois, norvégien, hollandais, russe, polonais, persan, finlandais, tchèque, thaï, hongrois, bulgare et slovaque.

Les réglages additionnels



TELE SATELLITE AWARD & BROADBAND 10-11/2008
TOPFIELD TF7700HSCI
 Un récepteur de TVSD et de TVHD solidement construit qui inclut une série de dispositifs très pratiques.

pose bien dans votre main et est clairement marquée. Notre récepteur d'essais était également muni d'un manuel d'utilisation très détaillé écrit en anglais ; naturellement, pour chacune des différentes versions de pays de destination, une traduction sera fournie.

Utilisation à chaque jour

Lorsqu'on allume le récepteur pour la première fois, le menu principal est affiché et ne peut pas être fermé jusqu'à ce que tous les réglages de base aient été accomplis et un balayage de canaux aura été exécuté. Une liste préprogrammée de stations qui aurait certainement simplifié l'installation initiale n'était pas disponible.

La liste de satellites incluse comprend 143 satellites européens, asiatiques et américains. Le fabricant a finalement écouté les critiques sans fin qu'ils ont

les données satellites ou transpondeurs ; il est également tout aussi simple d'éditer les données existantes. Comme avec tous les autres récepteurs Topfield, le TF7700HSCI implémente les protocoles DiSEqC 1.0, 1.1, 1.2 et 1.3 (USALS) et peut donc aussi bien être employé avec la combinaison la plus simple de sources multiples, un système motorisé par DiSEqC ou jusqu'à une antenne WaveFrontier avec 16 LNB.

Une large gamme de fréquences d'oscillateur local (LOF) pour la bande C et la bande Ku sont déjà préprogrammés dans le récepteur. Si vous avez l'intention d'utiliser une antenne de bande S avec le TF7700HSCI, cela ne posera aucun problème grâce à la possibilité d'introduction manuelle des LOF.

Une fois que le récepteur aura été accordé à votre antenne spécifique, la prochaine étape est le balayage des canaux. Fait typique pour Topfield, environ quatre minutes étaient nécessaires pour

balayer et mémoriser toutes les stations diffusées par un satellite de 110 transpondeurs.

Naturellement, en plus du balayage des canaux automatique, il y a également un balayage manuel ainsi que la possibilité d'introduire manuellement des PID pour les utilisateurs chevronnés. Si désiré, un balayage par bouquets peut également être activé ; de cette façon vous pouvez être sûr que le récepteur trouvera toute station existante même si les télédiffuseurs de programmes auraient entretemps décidé de changer la grille des chaînes sur les divers transpondeurs.

Dans le menu des réglages du système, l'utilisateur peut adapter le récepteur à ses préférences et aussi au téléviseur qu'il utilise. La large variété de configurations

incluent une série d'options de configurations pour l'OSD aussi bien que des options pour le signal de sortie A/V.

Si les interrupteurs à positions multiples sur le panneau arrière activent la sortie vidéo sur HDMI et/ou sur YUV, la sortie Scart produire seulement la S-Vidéo ou le CVBS. Si ces commutateurs sont placés sur Scart, alors le RVB sera également disponible sur la sortie Scart.

Bien que de plus en plus les diffuseurs de programmation émettent leur contenu en format 16:9, il reste de nombreux télédiffuseurs qui utilisent toujours le format plus ancien de 4:3. Le TF7700HSCI permet à l'utilisateur de choisir de regarder ces chaînes en mode zoomé pour remplir l'écran tout entier ou avec des bandes noires sur les côtés gauche et droite de l'image.

Au cas où le téléviseur ne traite pas des signaux en 16:9, le récep-



Mettre à jour le progiciel avec une mémoire USB

teur peut fournir le signal de sortie dans le format Letter-box ou simplement centré sur l'écran.

Mais il devrait être assez certain qu'aucun utilisateur n'emploiera ce récepteur sur un téléviseur de la norme 4:3.

Dans le menu concernant le format vidéo, l'utilisateur peut choisir la résolution du signal de sortie HDMI (1080i, 720p, 576i ou 576p) ou le choix peut être laissé au récepteur lui-même basé sur le signal entrant en sélectionnant la position auto pour cette option du menu. Cette fonction est réellement très pratique car un signal standard SD, qui autrement serait reproduit en une résolution 1080i améliorée par l'utilisation d'un scaler, paraîtrait flou et effacé et de ce fait le choix du 576i ou du 576p serait le meilleur choix.

La commutation automatique du signal est survenue exactement comme elle le devrait pendant nos essais ; le récepteur a immédiatement identifié le signal de haute qualité en HD de la chaîne ORF1 HD et la résolution correcte de 720p a été choisie. Quand le récepteur a été commuté à un canal SD, le TF7700HSCI a immédiatement activé le 576p.

Même la résolution 1080i utilisée par les chaînes HD d'un fournisseur allemand de télévision à péage a été identifiée sans effort et accordé par le récepteur. Le format vidéo peut être commodément changé en poussant un simple bouton simple sur la télécommande.

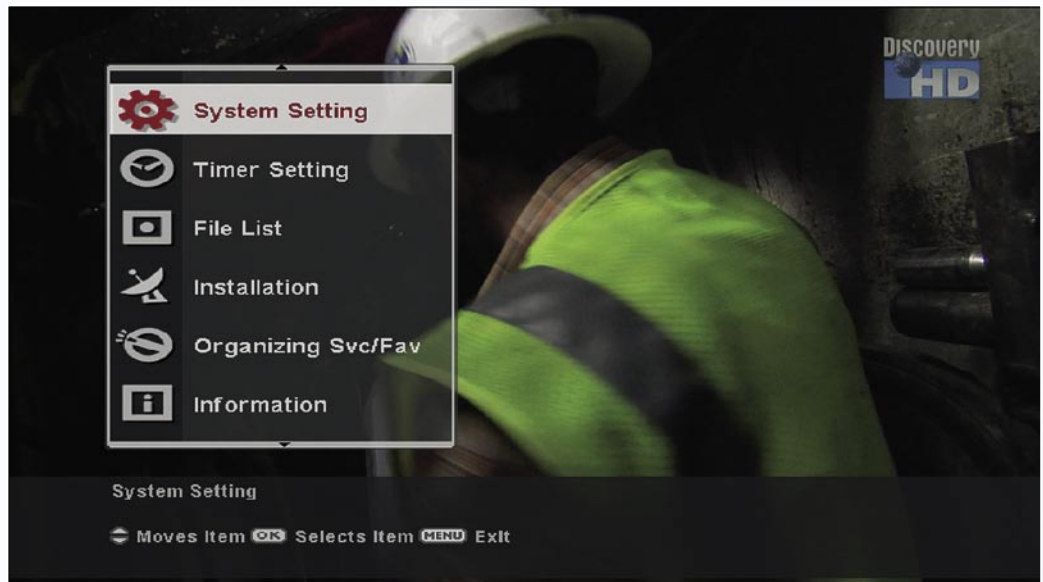
Malgré le fait que le choix manuel des normes de couleurs PAL et NTSC n'est plus possible, le récepteur peut reproduire tous

les deux signaux sans aucun problème. Pour les radioamateurs ceci est une bonne nouvelle : ils n'auront aucun souci pour recevoir des Feeds provenant des USA.

souvent peuvent être introduites dans une des listes de favoris librement sélectionnables et peuvent alors être accédés sur la simple poussée d'un bouton.

La fonction de restauration du système est un dispositif extrêmement pratique. L'utilisateur peut prendre un instantané complet de tous les réglages, listes de

tués, une barre d'information très instructive apparaît et fournit des informations EPG sur le programme en cours, l'heure, l'information sur la chaîne (présence de système télétexte, chiffrement de système télétexte, multi-sources, etc.) ainsi que des données du transpondeur. Une deuxième poussée sur le bouton Info fournit plus de renseignements détaillés sur le



Menu principal

Comme avec la plupart des autres récepteurs Topfield, le TF7700HSCI également ne peut stocker que seulement 5000 stations TV et radio ; pour un récepteur à interface commune (CI) avec DiSEqC 1.3, ce n'est certainement pas assez.

En raison de cette capacité de mémoire limitée, l'édition efficace de la liste de stations est d'autant plus importante. Il semble que Topfield a mis beaucoup d'efforts dans la fonction d'édition de ladite liste - les utilisateurs peuvent facilement supprimer, déplacer ou modifier le nom des stations ou les verrouiller par un code PIN. Les chaînes qui sont regardées plus

stations et de favoris, des données satellites, etc. et sauvegarder ces informations aussi souvent que nécessaire. Si jamais il y a un problème ou si quelque chose s'est mal passé lors d'une modification, la configuration originale peut rapidement être reconstituée. Le récepteur revient alors à nouveau à son état originel avec tous les réglages corrects remis en place.

Une fois que tous les réglages initiaux ont été entrepris, le bouton de sortie vous mènera hors du menu principal et le récepteur commutera alors sur la première station de la liste.

Ainsi que Topfield nous a habi-

programme en cours à condition naturellement que ces données soient rendues disponibles par le diffuseur. Les informations sur la programmation prochaine est fournie par le bouton « Guide ».

Le TF7700HSCI établit rapidement une vue d'ensemble complète de toute la programmation et en appuyant sur le bouton OK on peut directement configurer la minuterie à partir de l'EPG tandis que le programme en cours reste visible dans une petite fenêtre (même avec les chaînes HD).

Une poussée du bouton OK montre la liste des stations qui à l'aide des boutons de fonction



colorés sur la télécommande peut être triée ou limitée à des satellites spécifiques.

Le délai pour commuter entre deux chaînes en HD en moins de deux secondes ; le temps de commutation entre stations est plus rapide entre des chaînes SD. En raison de l'ajustement automatique de la résolution d'image, le délai de commutation entre les canaux de TVHD et de TVSD peut prendre jusqu'à trois ou quatre secondes selon le téléviseur. Si c'est trop long pour vous, arrêtez simplement la fonction automatique de résolution et changez la résolution manuellement avec la télécommande selon les besoins.

Le syntoniseur fabriqué par Topfield nous a fait une très bonne impression ; il peut facilement traiter des signaux plus faibles tels qu'on trouve sur BADR par 26° Est, NILESAT par 7° Ouest ou ASTRA 2D par 28.2° Est.

Malheureusement, nous n'avons pu trouver aucune donnée technique sur le syntoniseur dans le manuel d'utilisation ainsi nous avons dû effectuer nos propres essais en SCPC sans avoir des données du fabricant pour comparer. Nos essais ont démontré que la réception est possible seulement avec des débits de symboles commençant à approximativement 2.0 Ms/sec. Nous avons été particulièrement satisfaits avec les tests de réception de TVHD ; le récepteur a parfaitement fonctionné sans aucune faille de la vidéo ou plantage occasionnel. Nous avons regardé diverses chaînes en TVHD sur différentes positions satellites et, sans différence si elles étaient en FTA ou cryptées, le TF7700HSCI n'a eu aucun problème a les afficher correctement.

Jusqu'à ce point, le TF7700HSCI était semblable dans la fonction à d'autres récepteurs HD, mais c'est ici où les similitudes se terminent : l'interface intégré d'USB 2.0.

Pour nos essais nous avons relié une unité de disque dur externe de Seagate FreeAgent Pro et une clef mémoire USB de 4GB. Dès que chacun de ces dispositifs avait été relié, et ceci peut même être fait pendant que le récepteur fonctionne, le TF7700HSCI a immédiatement identifié le nouveau support de stockage et immédiatement, des fonctions multiples de PVR telles que l'enregistrement sur disque et la reproduction sont immédiatement devenus disponibles.

Tandis qu'une émission est enregistrée (même un canal en HD), tous les autres canaux sur le même transpondeur (de nouveau, même les chaînes HD) sont disponibles pour être visionnées. Il est également possible d'enregistrer une émission et de regarder une autre précédemment enregistrée en même temps.

En dépit de la charge extrême nous avons mis sur ce récepteur, nous n'avons pu détecter aucune interférence ou d'autres instabilités pendant l'enregistrement ou la lecture.

TELE-satellite World

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Généralement nous n'avons pu détecter aucune différence dans les performances comparées à d'autres récepteurs avec disque dur intégré ; ceci permet à l'utilisateur de profiter pleinement d'un dispositif de stockage externe et lui donne la flexibilité de commuter lesdits dispositifs externes ou de les emporter vers un autre endroit.

Les programmes enregistrés sur l'unité de disque dur externe ou la clef USB peuvent également être reproduits sur un PC sans aucun problème ou encore, avec des outils appropriés être gravés sur un DVD. Même des program-

mes enregistrés en HD n'ont donné aucune difficulté à notre ordinateur.

Topfield est constamment occupé pour améliorer ses produits. De nouvelles mises à niveau du logiciel peuvent être téléchargées dans le récepteur par satellite, par la clef USB ou par l'interface série. Ceci rend très facile pour l'utilisateur de maintenir à jour le logiciel du récepteur.

Topfield propose gratuitement un éditeur des listes des stations sur son site Web : www.i-topfield.com.



Menu balayage





Expert Opinion



Le TF7700HSCI est un récepteur TVSD et TVHD solidement construit qui inclut une série de dispositifs très pratiques. Ajoutez à ceci son OSD logiquement présenté et facile à comprendre et vous avez un récepteur satellite pour un usage courant parfait pour la famille entière.

La réception de TVHD en mode DVB-S2 basé sur la norme H.264 a fonctionné correctement et grâce à la sortie HDMI, ces signaux superbement clairs peuvent facilement être reliés à un téléviseur plasma ou à cristaux liquides. Avec l'aide de l'interface USB 2.0 pour une unité de disque dur externe ou une clef USB, le TF7700HSCI devient une machine PVR complète dont les enregistrements peuvent facilement être emportés n'importe où être reproduits facilement directement sur un PC.



Thomas Haring
TELE-satellite
Test Center
Austria



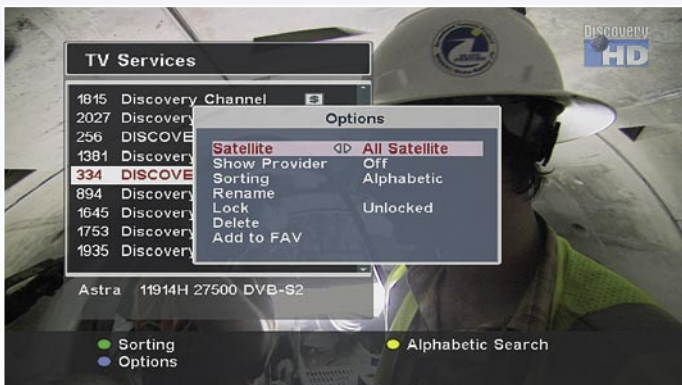
La mémoire de stations dispose de seulement 5000 emplacements et un interrupteur d'alimentation principale sur le panneau arrière serait également très pratique.



Info Bar |



EPG étendu |



Liste des stations avec le menu des options |



Enregistrement d'émissions HD |

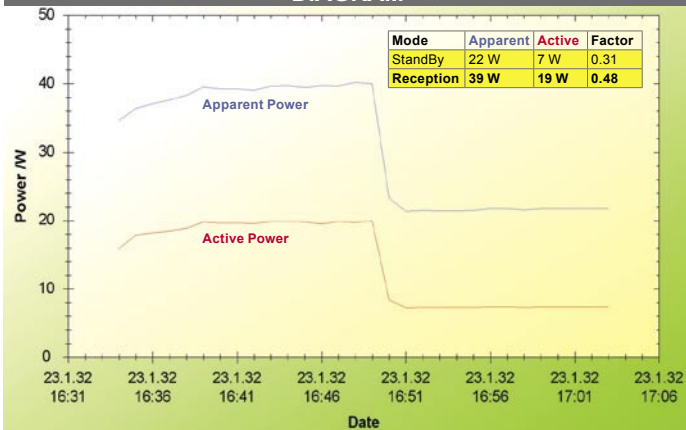


Vue d'ensemble des enregistrements |

TECHNIC DATA

Manufacturer	Topfield, Seongnam/Korea
Fax	+82-31-7082607
E-Mail	inquiry@topfield.co.kr
Model	TF7700HSCI
Function	Digital Satellite Receiver for SDTV/HDTV in DVBS and DVBS2 (QPSK/8PSK) MPEG2 and MPEG4
Channel Memory	5000
Symbolrate	2-45 Ms/sec.
SCPC Compatible	yes
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
USALS	yes
HDMI Connection	yes
Scart Connectors	2
Audio/Video Output	3 x RCA
Component Output	3x RCA
S-Video Output	no
UHF Modulator	no
Programmable 0/12 Volt	no
Digital Audio Output	yes
EPG	yes
C/Ku-Band Compatible	yes
PVR Function	yes (via external USB 2.0 storage medium)
Power Supply	90-250 VAC, 50/60 Hz
Dimensions	43/26.5/6cm
Weight	2.9kg

ENERGY DIAGRAM



15 premières minutes : Opération active avec commutation de canaux, enregistrement, relecture, etc. 15 minutes suivantes : En veille



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INFOSAT V055

Parabole de type Prime Focus

Légère comme une plume



Si vous êtes un fan du satellite habitant en Europe, les satellites de Bande Ku sont chose très banale pour vous. Mais, n'avez-vous jamais rêvé explorer le monde mystérieux de la Bande C ? Vous pensez que la parabole de Bande C doit être grande, lourde et laide ? Eh bien, pas tout à fait. Vous ne pouvez pas changer beaucoup quant à la taille - la Bande C, a une longueur d'onde approximativement 3 fois plus longue que la Bande Ku. Pour obtenir ainsi un gain semblable, l'antenne doit être également 3 fois plus grande. Mais vous ne devez pas nécessairement utiliser une parabole pleine. Vous pouvez opter pour un réflecteur en aluminium ajouré au lieu de cela. De cette façon, vous obtenez une antenne légère d'une apparence beaucoup plus agréable qu'une antenne pleine.

L'installation

La V055 d'INFOSAT est une antenne en aluminium ajourée de 1.65 cm. Elle est expédiée en trois paquets. Les quatre parties du réflecteur composent le premier. Le second contient le mât et les supports du LNBF et le troisième - des écrous, des rondelles, des boulons et le reste du matériel pour le support. Le poids du réflecteur est de seulement 3.8 kilogrammes. Ceci signifie que le poids d'un segment est de plus ou moins 1 kg.

Après avoir déballé le tout, nous avons recherché les instructions d'assemblage. Le producteur n'en a pas inclus. Alors, nous avons compté chaque boulon et écrou, les avons triés selon leur taille et comparés aux trous que nous pouvions voir dans les segments de réflecteur et les pièces du support. Cela ne nous a pas pris

longtemps pour découvrir à quoi allait servir quel boulon/écrou. Cependant, si INFOSAT décide de vendre ce produit directement aux utilisateurs, ce pourrait être une bonne idée d'attacher des instructions simples.

L'assemblage des quatre pièces du réflecteur était vraiment facile. Nous l'avons réalisé très rapidement et nous avons passé à la partie plus délicate - la préparation d'une base temporaire pour le mât d'antenne. Heureusement, un morceau de panneau de particules attendait dans notre garage exactement le moment comme celui. Bien commode le fait que nous ne l'avions pas jeté. Nous pouvions enfin trouver une justification pourquoi tant de choses étranges prennent de la poussière dans notre garage. Après avoir ajouté quatre pieds réglables, nous avons pu utiliser ce



La parabole V055 de 165cm est livrée en trois paquets

TELE-satellite World

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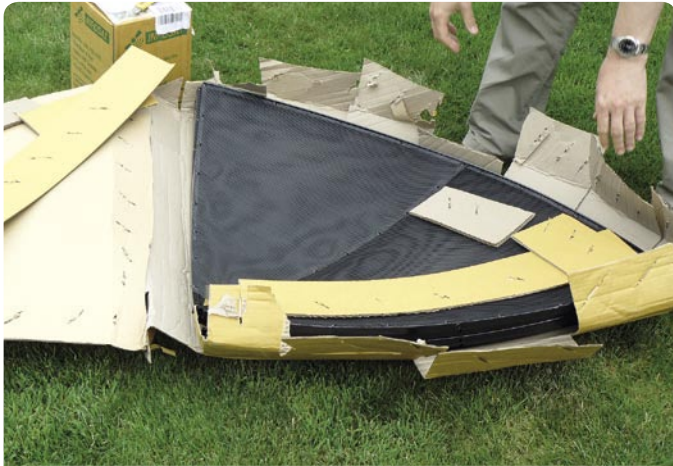
panneau comme base horizontale pour le mât. Nous avons attaché le mât à la base à l'aide des trois jambes incluses dans le paquet. Le montage du réflecteur sur le mât n'aurait pas pu être plus facile. Il suffit de juste le poser dessus.

Après le montage du réflecteur sur le mât, la dernière étape à faire était l'installation des quatre bras supportant le LNBF. Ceci n'a posé aucun problème. L'antenne était prête pour les tests. Nous étions très impatients pour voir ce que cette parabole légère pouvait nous fournir.

Réception de la bande C - Polarisation linéaire

Il n'y a pas tellement de satellites de Bande C pouvant être captés en Europe et qui transmettent en polarisation linéaire. Grâce au Satellite Dish Pointer (www.dishpointer.com) et à SatcodX (www.satcodx.com), nous avons choisi 4 de ces satellites. Seul l'un d'entre eux : BADR-C a une altitude élevée : 30°. L'altitude des autres trois : ABS-1, TELSTAR et NSS-10 est de seulement environ 10°. Nos craintes se sont avérées fondées. Nous ne pouvions recevoir que les fais-





Les 4 pièces du réflecteur sont protégées dans du carton



Les pièces du réflecteur sont déballées...



... ainsi que le reste du paquet



L'Assemblage du réflecteur était très facile grâce à son poids très léger

L'Assemblage du réflecteur était très facile grâce à son poids très léger



Tous les écrous sont-ils serrés?



L'altitude est réglée à l'aide de ce long boulon

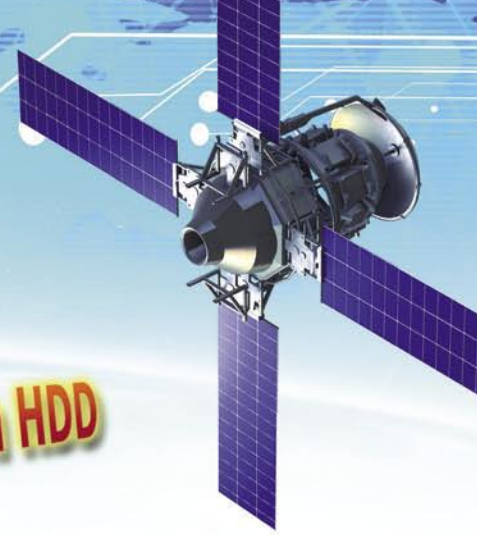


Le support de l'antenne improvisé a été préparé. Le mât inclus a été attaché au panneau de particules équipé des pieds réglables pour pouvoir le niveler.



Parfait, toutes les pièces sont ajustées, maintenant c'est le tour des composants électroniques

Parfait, toutes les pièces sont ajustées, maintenant c'est le tour des composants électroniques



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La parabole terminée avec la protection typique du LNB pour la bande C. Elle est élégante et permet d'être implantée en permanence à côté des arbres



Il est temps d'aligner l'antenne. Nous recommandons d'employer un niveau à bulle équipé d'une échelle d'angles – cela facilitera le réglage de l'altitude.



Le plaisir peut commencer : essai de réception d'un satellite de la bande C placé très bas au-dessus de l'horizon

ceux européens de BADR-C. Les autres satellites n'ont pas même produit la moindre petite crête sur notre analyseur de spectre. Les arbres entourant notre emplacement l'ont rendu impossible. En ce moment, nous avons vraiment regretté que le centre d'essais de Télé-satellite ne soit pas situé sur le toit d'un gratte-ciel. Le signal de BADR-C, 26°E, était très, très fort. Nous avons reçu le transpondeur 3880H (27500, 3/4) avec la puissance de canal de 84 dBμV et un C/N de 12 dB. La marge de bruit était au-dessus de 6 dB. Un autre transpondeur numérique : 4040H (27500, 3/4) n'étaient pas plus mauvais. Force du signal 84.1 dBμV et C/N de 12,6 dB. La marge de bruit : 6,3 dB. Très bon !

Les transpondeurs analogiques étaient également forts et clairs. Le C/N était supérieur à celui des transpondeurs numériques (ce qui est normal) mais auriez-vous espéré un C/N=23.5 dB ! ? Nous avons obtenu ce record pour le transpondeur 3996H (PAL). La chaîne Al Jazeera est transmise par un tel signal puissant.

Réception de bande Ku-Polarisation linéaire

Bien qu'une antenne ajourée soit plutôt mieux adaptée pour la

C-Bande, nous avons également essayé un LNBF de type prime focus pour la Bande Ku. La réception de la Bande Ku n'était pas aussi forte. Nous avons examiné un transpondeur sur le satellite HOTBIRD (13°Est). D'une façon générale, le rapport bruit / porteuse était légèrement plus mauvais que celui d'un LNB régulier monté sur une parabole Offset de 90 cm (12 dB contre 12,5 dB). Nous avons espéré une performance d'une parabole pleine de 120 cm mais rappelez-vous qu'une antenne ajourée n'est pas le meilleur choix pour la Bande Ku. Un certain bruit depuis le sol peut traverser la surface ajourée et atteindre le convertisseur.

Comme ceci pourrait être tout à fait intéressant pour nos lecteurs, nous avons également essayé un LNB Bande Ku régulier pour des paraboles Offset . Nous l'avons installé sur INFOSAT V055. Théoriquement un tel LNB a un rapport f/D trop élevé (0,6) ainsi il ne peut seulement « voir » qu'une partie centrale de la parabole prime focus. Nos mesures ont confirmé la théorie. La qualité du signal a chuté par 1 dB en comparaison avec le LNBF prime focus (C/N = 11 dB). Cependant, des satellites forts comme HOTBIRD ont pu encore être captés même avec un tel « faux » LNB installé sur la V055.

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Réception bande C– Polarisation circulaire

Il y a d'autres satellites encore transmettant en polarisation circulaire que l'on puisse capter depuis notre emplacement mais la plupart d'entre eux exige des paraboles plus grandes que 165 cm. Cependant, il y a certains qui devraient être accessibles. Nous avons testé l'antenne avec NSS-7 par 22° Ouest, et YAMAL 202 par 49° Est. Nous avons obtenu un C/N de 6-7 dB. Leur EIRP est le 40 dBW depuis notre emplacement ce qui signifie qu'on devrait utiliser au moins une parabole de 1,5 m pour les recevoir. Avec un C/N de près

de 7 dB nous étions au seuil de réception.

Conclusion

Le V055 est une parabole ajourée légère qui peut facilement être érigé dans un jardin. C'est taille de diamètre de 1,65 m est le minimum exigé en Europe pour la réception de la bande C, mais est suffisante dans d'autres régions avec des satellites de plus haute puissance en bande C. L'avantage de la V055 est sa facilité d'assemblage, et cela qu'il s'insère facilement dans un jardin. Il vaut mieux l'utiliser comme parabole fixe pour un satellite de haute puissance de la bande C.



Et ici nous examinons les performances de la parabole avec un LNB prime focus pour la Bande Ku

Avis de l'expert

+

L'INFOSAT V055 est une antenne légère pour être utilisée comme parabole fixe. Il est facile à l'assembler et a un aspect élégant. Sans aucun doute, ce n'est pas une grande parabole qui défigure le paysage !



Jacek Pawlowski
TELE-satellite
Test Center
Poland

-

En raison de sa construction délicate cette parabole peut se déformer et exige une manipulation soignée

TECHNIC DATA

Manufacturer	INFOSAT INTERTRADE CO., LTD.
Website	www.infosats.com
Email	sales@infosats.com
Tel./Fax	+66- 2- 961-9161-3 / +66- 2- 961-8587
Model	V055
Function	1.65 m Primary Focus Dish
No. of segments	4
Focal length	63 cm
Depth	28 cm
f/D ratio	0.38
Material	Aluminum mesh 0.9 mm
Operating frequency	3.4 ~ 12.75 GHz
C-Band gain	35.5 dB
Ku-Band gain	42 dB
Stand pole	1 m, Ø 2"
Reflector weight	3.8 kg
Mounting stuff weight	3.5 kg
Pole and leg supports weight	2.6 kg

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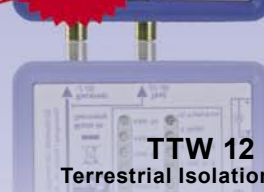
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Imperial SatBOX HD

A Perfect HDTV Receiver

Thanks to the emergence of HDTV, or high definition television, satellite receivers are going through a substantial redesign. Instead of 576 lines, this new technology brings with it nearly twice that amount, 1080 lines, and offers therefore a marked improvement in picture quality. The Imperial SatBOX HD receiver that we tested lets you receive not only DBS-S2 signals in MPEG2 (H.262) but also signals in the newer MPEG4 compression (H.264). At the same time, the video signals are now carried to the TV digitally with the new HDMI connections.

center. Its power consumption is relatively low, in standby mode it uses only 12W and when fully operational 17W (with antenna motor it's more like 18W).

The sensitivity of the tuner is above average and its operating system is fast and comes with a number of convenient functions.

In addition to the Standby button on the front panel, there are seven more buttons that let you work through the menu system without the need of the remote control. The dominant feature on the front panel would have to be the 13-character alphanumeric display. It shows not only the channel name but also provides information on a

rear panel, there's also an HDMI output. The latter provides a digital output of up to 1080i lines of resolution whereby this line structure is also possible with the 576 lines of a normal DVB-S broadcaster thanks to upscaling.

The annoying line structure disappears with a compatible TV; this makes for enjoyable viewing even on larger flat screen TV's. Top quality stereo systems can be connected optically to the S/PDIF output or via the RCA jack.

Software upgrades can be uploaded through the RS-232 interface using a null-modem cable. The USB jack and the Ethernet connection are cur-



When I turned on the Imperial SatBOX HD for the first time, I sat there mesmerized by the high resolution transmissions for almost an hour. I surfed from ASTRA19 to HOTBIRD13 and from ASTRA 28.2 to ASTRA 23.5. Through it all I enjoyed the spectacular landscapes and the animal portraits that could be seen on the Demo channels.

It's a nice feeling knowing that you are witnessing the birth of a new technology even if for the most part it's still in the starting gates in Europe.

I like the Imperial SatBOX HD. It weighs only about 2.2 Kg (4.8 LBS), measures 340x248x65 mm and therefore fits nicely in almost any entertainment

number of the menu functions. The two CI slots plus the Conax card slot lets the box receive up to three different encryption systems at the same time. This is especially critical since HDTV is mostly available with encrypted PayTV packages.

Aside from the LNB In/Out and the two Scart jacks on the

receiver, there are two CI slots, which are not active and are planned for a later version. The main power switch is a useful way to help save energy but it also makes the software upgrade process a little easier.

The receiver has an

above-average capacity of 7000 channels. This means there is a large memory reserve since the available FTA channels in Europe number at most 2500 leaving plenty of room for encrypted channels.

Memory management encompasses every satellite and 32 Favorites lists divided into TV and radio channels. They can be completely edited; entries can be locked, deleted, renamed or moved. Transponders can easily be added although no more than 16 satellites can be stored.

If you access the channel list with the OK button, you can scroll within the channel list without actually switching to another channel – a second push of the OK button is needed for that to happen. For every channel the associated frequency and polarization is shown.

With the left cursor button an additional menu can be called up with which you can access a Favorites list and the channel list. The remote control really

doesn't need a Satellite button anymore.

With multiple satellites, channel management becomes a little more awkward. Moving and deleting channels can only be done with the entire channel list displayed; it might get a little confusing to keep track of what channel goes with what satellite.

This problem is somewhat solved by the fact that each channel keeps the same channel number regardless of what list you happen to be looking in at that moment.

With every channel change an Info bar appears at the bottom of the screen for 3 to 30 seconds (user-settable) that provides:

- the name and number of the channel
- the name of the current program
- the name of the next program
- the date, time, audio and language



Euro1080 on Astra23 |



Channel list for BBC HD |



- \$ display
- availability of EPG, teletext and subtitles
- name of the satellite, transponder and frequency
- signal quality bar graph

This Info bar can also be called up with the Info button.

A second push of the Info button displays a description of the currently running program. This data can also be viewed along with a thumbnail image of the current video by pressing the EPG button.

The EPG can show programming information for five channels at the same time for a week in advance, as long as this data is available in the first place. A 10-event timer is integrated into the EPG to make it easy to pre-program up to ten different programs.

The teletext function is quite sophisticated: every page is automatically downloaded by pressing the yellow Teletext button. Every page can therefore be accessed instantly when

needed. The cursor buttons let you switch pages one at a time or by the hundreds just as fast.

Not all of the DiSEqC protocols are available. DiSEqC 1.0 lets you connect up to four fixed antennas and there's a helpful tool included to calculate azimuth and elevation for every satellite that can be seen from your location.

For motorized antennas up to 16 satellite positions can be set up manually with DiSEqC 1.2 or automatically with USALS.

The channel scan can be set to search by satellite, transponder, DVB-S or DVB-S2, FTA and/or encrypted channels. The scan itself is quite fast: HOTBIRD was completely scanned in roughly four minutes.

The channel scan must access a transponder list in order to work; without a transponder list a channel scan cannot be performed since, just like the previous model that was not an HDTV box, a Blind Scan function is not available.

Expert Opinion

+

This receiver provides perfect HDTV video. It has no problems decoding older DVB-S signals and also the new DVB-S2 standard. Its various interfaces and functions are comfortable and easy to use.

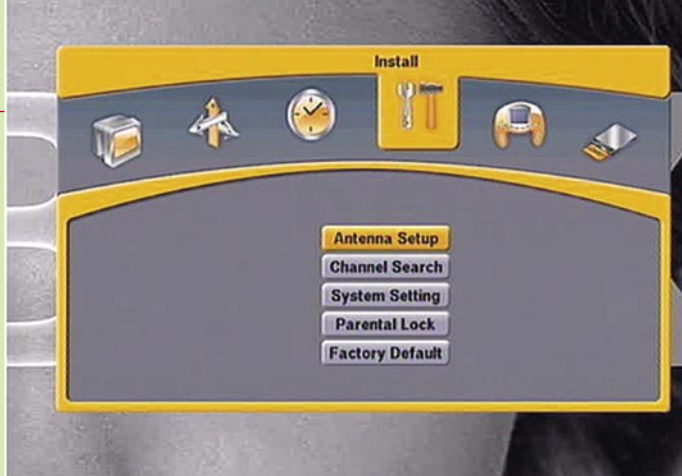
Large 13-character alphanumeric display
Sensitive tuner
DiSEqC 1.2 plus USALS



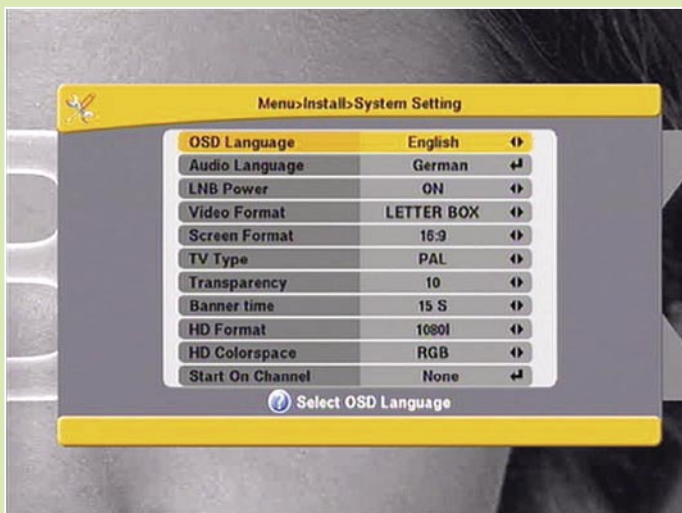
Heinz Koppitz
TELE-satellite
Test Center
Germany

-

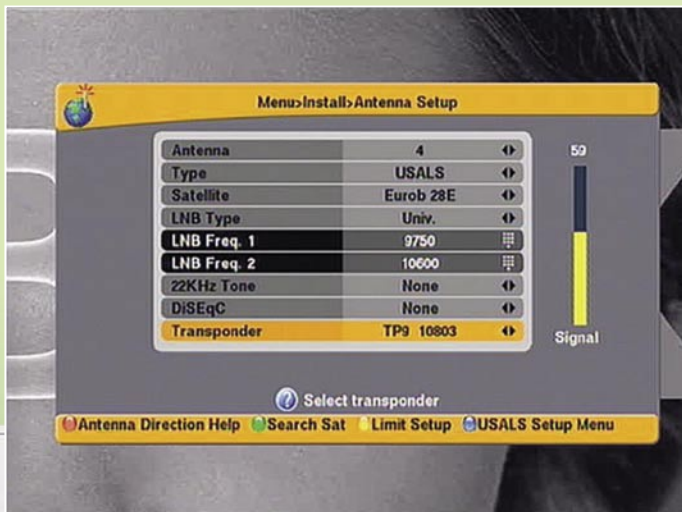
Fully preprogrammed only for ASTRA 19E and HOTBIRD 13E.
A maximum of only 16 programmable satellites.



Install menu |



System setting |



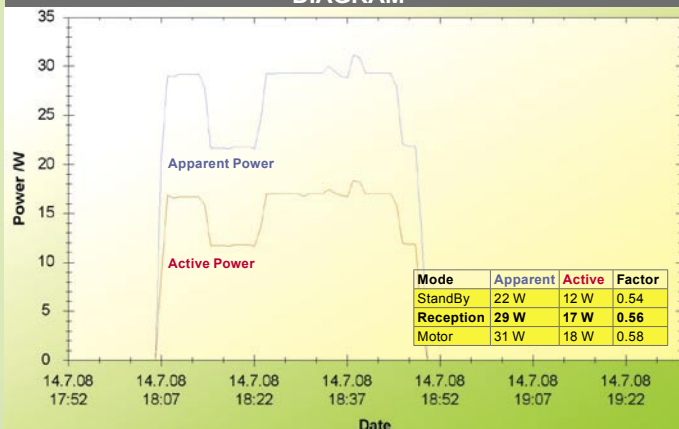
Antenna setup |



TECHNIC DATA

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Fax	+49-34954-49233
E-Mail	webmaster@dvbshop.net
Website	www.dvbshop.net
Model	IMPERIAL SatBOX HD
Power Supply	175 ... 250 V AC
Power Consumption	6/12 Watt (Stand-By/Reception)
Size	340x248x65 mm
Weight	2200 g
DiSEqC	1.0, 1.2, USALS
Satellites	3 preset plus 13 additional positions
Program Listings	All, Satellites (each for TV and Radio)
Favorites	32 (each for TV and Radio)
Teletext	Full Page Memory
EPG	Extended 5 Channel Display, Program Details for 7 Days
Timer	10 for all EPG Programs
Front View	Stand-By, Down, Up, Left, Right, Menu, OK, Exit, Alphanumeric Display, CI-Flap
Rear View	IF In/Out, 2xSCART, HDMI, RS-232, USB, Ethernet, 4xRCA (Audio L/R, Video, SPDIF), Optical SPDIF, Main Switch
Slots	2 Common Interfaces, 1 Conax-Slot

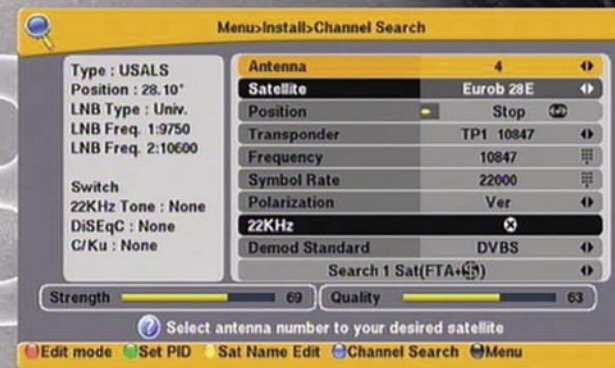
ENERGY DIAGRAM



12W is used at the beginning and the end while in standby mode; the 17W used in the middle is with the receiver in operation – the 1W increase to 18W occurred while the antenna was moved from ASTRA 19E to TURKSAT 42.



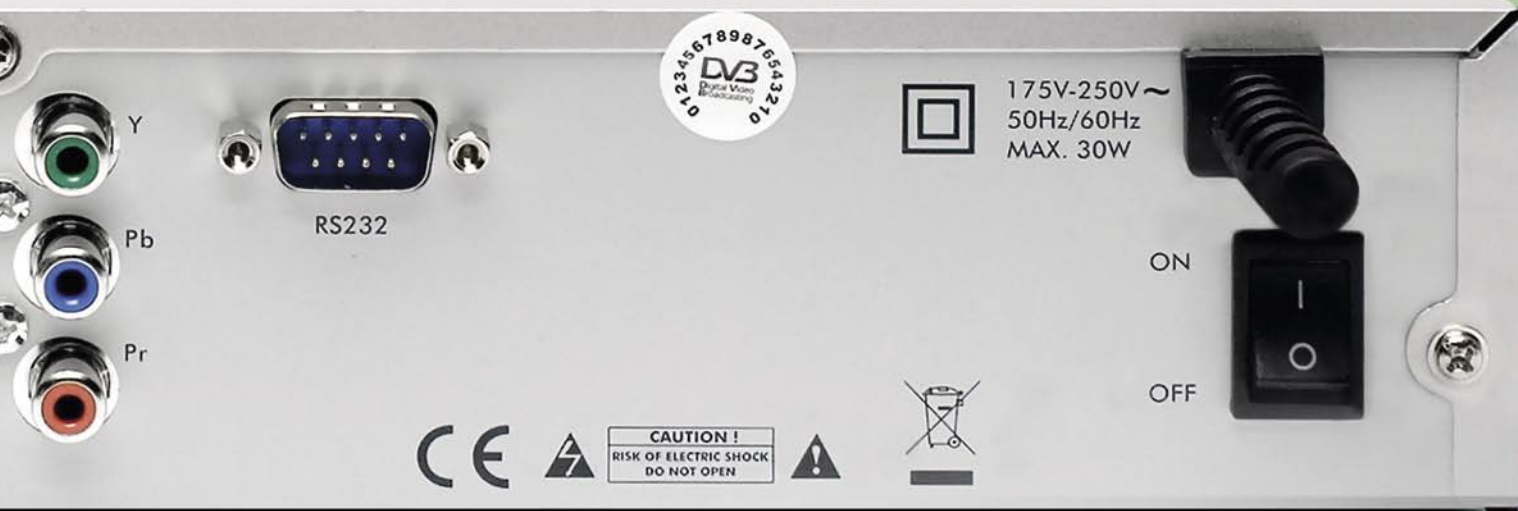
USALS setup |



Channel search |



Info |



Sonicview SV-360 Elite PVR

Récepteur PVR facile à utiliser

Les récepteurs-enregistreurs (PVR) sont de plus en plus appréciés. Et avec la grande variété de chaînes disponibles par satellite et un si grand choix, il est facile de comprendre le pourquoi. Votre programme préféré pourrait passer le soir où vous devez assister à un mariage. Ou peut-être c'est un match de boxe du championnat que vous ne voulez simplement pas manquer. Grâce aux récepteurs PVR, n'importe quelle émission peut être enregistrée pour être visionnée à un moment plus commode pour vous.

En raison de cette popularité croissante, de plus en plus les fabricants produisent des récepteurs PVR. Sonicview a également rejoint ce groupe avec leur nouveau récepteur satellite SV-360Elite PVR à double syntoniseur. Naturellement, nous avons voulu voir comment ce récepteur était fait en ainsi lorsque le colis est arrivé chez nous il y a quelques jours de chez Sonicview nous avons eu l'occasion de l'examiner à fond.

Quand nous avons ouvert le paquet nous y avons trouvé un récepteur satellite agréable à regarder qui est tout en noir excepté une mince ligne chromée qui a traversé horizontalement centre du panneau avant. Cette ligne tourne également autour des deux petits boutons ("Marche/Arrêt" et menu) et d'un ensemble de boutons disposés en cercle (flèches gauche/droite/haut/bas et OK) sur ledit panneau avant ainsi qu'un des trois ports USB 2.0 du

récepteur. Ces boutons vous permettent de complètement piloter le récepteur si la télécommande vient à disparaître. Ils sont légèrement enfoncés dans le panneau avant et en raison de leur de petite taille, quelqu'un avec de grands doigts pourrait avoir quelques petites difficultés à enfoncer ces boutons suffisamment bas, particulièrement les boutons en cercle. Le port USB est protégé contre la poussière par un capuchon en caoutchouc qui s'enlève facilement pour libérer le connecteur.

Le panneau arrière est également très bien équipé. Comme c'est un récepteur à double syntoniseur, vous trouverez une paire d'entrées satellite IF ainsi qu'une paire de sorties en boucle correspondantes situées sur la gauche. En outre, naturellement, il y a l'ensemble typique de broches RCA qui matérialisent les sorties vidéo et audio stéréo analogiques. Mais pour une qualité vidéo améliorée, il y a aussi une sortie S-Vidéo et,



mieux encore, un autre ensemble de broches RCA qui représentent les sorties vidéo composantes (Y, Pb et P.R.). Pour compléter ceci, une sortie audio numérique optique S-PDIF assure une superbe qualité audio. L'ensemble est encore arrondi par une interface série RS-232, deux ports USB 2.0 et un interrupteur d'alimentation.

Le cordon d'alimentation secteur est fixé dans le récepteur et se termine avec une prise nord-américaine. L'alimentation du récepteur est de 95-250VAC, 50/60Hz, il peut donc être employée n'importe où dans le monde ; il faut juste se munir du bon adaptateur de prise. Une sortie modulateur n'est pas disponible et puisque ce récepteur particulier est conçu pour le marché nord-américain, les Scart ne sont pas non plus présents.

À la différence du récepteur, la télécommande universelle est de couleur argentée excepté une petite partie noire au centre. Cette télécommande se repose bien dans votre main et, contrairement aux boutons sur le récepteur ils ne sont pas enfoncés et peuvent facilement être poussés par des doigts de toute taille. Les boutons en cercle et les boutons pour le pavé numérique sont phosphorescents dans l'obscurité de sorte que vous puissiez facilement les voir si vous regardez la TV sans aucune lumière dans la pièce ! Ce dispositif peut même vous aider à trouver la télécommande dans une pièce complètement obscure. La télécommande peut également être

utilisée pour commander votre matériel électronique annexe tel que votre TV, lecteur DVD ou magnétoscope. Somme toute, il s'agit d'une télécommande très versatile.

Utilisation de tous les jours

Maintenant que nous avons eu l'occasion de voir ce récepteur de l'extérieur, allons donc voir ce qu'il peut faire quand nous l'allumons. La toute première chose que nous avons notée était le logo de Sonicview sur le côté gauche du panneau avant : quand le récepteur a été branché (en ayant basculé l'interrupteur de l'alimentation principale), ce logo a été illuminé par l'arrière. La couleur bleue douce du logo donne au récepteur une apparence élégante. Quand le récepteur est mis en marche pour la première fois, le SV-360 Elite PVR demande quelle langue de menus devrait être employée. Vous pouvez choisir entre l'anglais, le français, l'allemand, l'espagnol, l'italien, le russe, le turc, le néerlandais, le tchèque et le polonais. Ne pas prendre pas trop longtemps pour faire votre choix - si vous ne choisissez pas une langue assez vite, le Sonicview opte automatiquement pour la langue par défaut, dans ce cas-ci l'anglais. Si ceci se produit, ce n'est pas un

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problème du tout à entrer dans le menu et de changer en une langue plus appropriée.

Une fois la langue correcte choisie, le récepteur est passé en mode de réception. Puisque à priori, il n'y a aucune station sauvegardée dans la mémoire, il n'y a donc rien à regarder. Ceci signifie tout simplement que nous devons aller trouver les chaînes que nous voulons recevoir. Vous pouvez faire ceci en appuyant sur le bouton Menu sur la télécommande pour accéder au menu principal du récepteur. Le menu principal est divisé en quatre catégories (installation, configuration d système, PVR et réglages avancés) et chacune de ces dernières est encore divisée en sous-catégories additionnelles. Toutes ces sous-catégories peuvent être vues à la droite de la catégorie mise en surbrillance dans le menu principal. Naturellement, la première étape logique serait d'entrer dans le menu d'installation de sorte que vous puissiez dire au récepteur ce que vous lui avez attribué comme antenne. Le menu d'installation étant en surbrillance sur l'écran, un clic du bouton OK vous permet de choisir d'une des quatre sous-catégories. Dans l'écran de configuration de l'antenne, vous pouvez

accorder votre récepteur à votre système d'antenne.

Tous les réglages d'antenne sont affichés sur la gauche de l'écran de configuration d'antenne. Sur le côté droit se trouve un affichage graphique de la force du signal et des niveaux de qualité avec une ligne verte représentant la force du signal et une ligne rouge la qualité de signal. Ces deux niveaux sont également affichés dans un format numérique. Sous l'affichage graphique est en plus une représentation en barre de la force du signal et des niveaux de qualité.

Avant que ne vous commencent, faites une note mentale au sujet de l'entrée d'antenne sur le panneau arrière que vous allez utiliser. Si vous utilisez les deux entrées, veillez à vous rappeler quelle entrée d'antenne va vers quelle antenne satellite. Naturellement la première étape est de choisir le satellite ou les satellites que vous voulez recevoir et il y a le choix dans une liste assez étendue : Le SV-360 Elite PVR vous est livré avec une liste préprogrammée de 195 (!) satellites. Et vous pouvez même en ajouter cinq autres ! Cette liste est assez à jour bien qu'il y ait quelques satellites dans la liste qui n'existent plus ou ont des noms récemment changés ; quelques uns des satellites des plus nouveaux manquent également. Fort heureusement, grâce aux boutons de fonction colorés sur la télécommande il est facile à ajouter, éditer ou supprimer des satellites.

Le Sonicview est compatible



choisi le balayage rapide au lieu d'un balayage détaillé. La pression sur le bouton OK a lancé le balayage aléatoire. Le récepteur a passé par les deux polarisations et a accompli la tâche en seulement 4 minutes et 38 secondes. Il n'y avait aucun besoin de se munir d'un chronomètre ; durant tout le balayage ce dernier était très commodément affiché sur l'écran. Mais une bonne partie de ce temps a été employée pour balayer de 12.2 à 12.9 gigahertz ; le temps supplémentaire

passé pour balayer ce segment n'était pas nécessaire pour INTELSAT AMERICAS 5 mais il n'y a aucun moyen de limiter la gamme des fréquences pour le balayage aléatoire. La possibilité de configurer des limites de fréquence aurait économisé un petit peu de temps de balayage.

Comme nous avons juste men-



Menu principal

DiSEqC 1.0/1.1/1.2/USALS permettant ainsi de relier les entrées des deux tuners à presque n'importe quelle configuration possible d'antenne, depuis une antenne simple jusqu'à un système motorisé. Le satellite diffusant en clair (FTA) le plus populaire en Amérique du Nord est certainement INTELSAT AMERICAS 5 par 97° Est. Ainsi, tout naturellement, nous avons voulu commencer notre test par installer le récepteur pour ce satellite. Comme le câble coaxial a été relié à l'entrée IF-A sur le récepteur, nous avons aussi sélectionné le tuner 1 dans l'écran de configuration d'antenne. Le type/fréquence de LNB a été réglé sur simple et 10750 mégahertz naturellement, si le LNB que vous avez utilisé une fréquence différente d'oscillateur local (LOF), vous trouverez très probablement la LOF correcte déjà enregistrée dans la liste. Si la LOF que vous avez n'est pas dans cette liste, il est possible de l'introduire simplement à l'aide du pavé numérique sur la télécommande.

Ensuite, nous avons choisi un transpondeur de la liste préprogrammée pour ce satellite. Les touches de déplacement du curseur gauche/droite sur la télécommande peuvent être employées pour choisir un transpondeur actif ou vous pouvez appuyer sur le bouton OK pour afficher une liste de tous les transpondeurs en mémoire pour le satellite choisi. Pour INTELSAT AMERICAS 5, la liste des transpondeurs était à jour en grande partie. Comme il s'est avéré, le même peuvent être confirmé pour les transpondeurs stockés pour tous les autres satellites.

Avec la liste des transpondeurs affichée, vous pouvez choisir le transpondeur désiré en le mettant en surbrillance et en appuyant sur le bouton OK ou au besoin, vous pouvez ajouter, éditer ou supprimer des transpondeurs sur ce même

tionné, les données des transpondeurs pour tous les satellites sont à jour en grande partie. Si vous découvrez une erreur en parcourant la liste de transpondeurs pour un satellite, il est très facile d'éditer les données. Mais si vous n'avez pas envie d'effectuer ce travail manuellement, la fonction de balayage aléatoire du Sonicview effectuera ce travail pour vous et mettra à jour automatiquement la liste de transpondeurs. Appuyez simplement sur le bouton de fonction bleu sur la télécommande tandis qu'étant dans l'écran de configuration des antennes pour lancer la procédure. Vous pouvez choisir entre un balayage pour un seul satellite ou un balayage multi-satellites.

Pour ce test nous avons opté pour un balayage sur un seul satellite. Nous avons également choisi de balayer les deux polarisations (verticale et horizontale) bien que seule l'une ou l'autre puisse être sélectionnée. Ensuite, nous avons

trouver le même nombre de canaux.

Voilà, maintenant nous avons tous ces nouvelles chaînes dans la liste des stations. Une pression sur le bouton OK tandis que l'on regarde un de ces chaînes affichera la liste de stations. Lorsque vous regardez cette liste, vous noterez sans aucun doute qu'une certaine organisation de ladite liste serait nécessaire. Par exemple, la liste peut inclure les chaînes en clair FTA et les chaînes cryptées. Si vous ne vous intéressez pas aux chaînes cryptées, ces désormais fameux boutons de fonction colorés sur la télécommande entrent à nouveau en jeu. La liste des stations étant affichée, une poussée du bouton de fonction rouge montre seulement les chaînes FTA. Appuyez encore pour montrer seulement les chaînes cryptées et encore une fois pour revenir à nouveau à la liste originelle. Le tri de la liste des stations est également tout aussi facile : la liste des stations étant affichée, la poussée du bouton de fonction jaune montre les critères de tri disponibles (alphabétique, par le numéro de canal, par satellite ou par défaut).

Dans la liste des stations vous pouvez aussi très facilement commuter entre les entrées de syntoniseur en poussant le bouton de fonction verte. Le SV-360 Elite PVR implémente aussi un mode de multi-images qui montre les images fixes de 4, 9 ou 16 chaînes différentes toutes sur l'écran de sorte que vous puissiez obtenir une vue d'ensemble rapide de ce qui est actuellement émis à la TV. Vous pouvez employer les touches de déplacement du curseur pour vous déplacer d'une image à l'autre et appuyer sur le bouton OK lorsque vous trouvez quelque chose d'intéressant à regarder. Le récepteur commutera alors à la station choisie.



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La commutation entre les stations sur le même transpondeur prend presque une seconde. Aller d'une chaîne à l'autre sur différents transpondeurs nécessite approximativement 1.5 seconde avant que l'image soit composée. Ces temps sont tout de même acceptables mais ils enlèvent une partie du plaisir lorsqu'on veut zapper.

Naturellement, il peut également y avoir des stations que vous ne regarderez jamais ou que vous souhaitez modifier. Dans ce cas vous appelez simplement à l'écran le menu d'édition - la deuxième sous-catégorie du menu d'installation. Une fois dans cet écran d'édition, la vidéo du canal actif peut être visionnée dans une petite fenêtre sur le côté droit de l'écran avec la liste des stations sur la gauche. Même les barres sur la force et la qualité du signal sont incluses sur cet écran. Dans ce menu d'édition, vous pouvez commuter entre les stations en les faisant défiler et en appuyant sur simplement le bouton OK sur la télécommande. De nouveau, les boutons de fonction colorés sur la télécommande vous permettent de supprimer, de modifier ou verrouiller à clef les stations. Vous pouvez même trier les stations cet écran ! L'information sur la version du progiciel et une fonction de remise à la configuration initiale, peuvent également être appelées par l'intermédiaire du menu d'installation.

L'écran de configuration du système est divisé en quatre sous-catégories et vous permet d'installer le récepteur selon vos préférences personnelles. Par exemple, sur l'écran des réglages personnels vous pouvez changer la langue des menus, ajuster la transparence de l'affichage, modifier le temps durant lequel la barre d'information est affichée etc. Dans l'écran des réglages A/V vous pouvez commuter entre

NTSC et PAL, changer le format (4 : 3 ou 16 : 9) ou choisir le mode d'affichage (letterbox, pan & scan ou plein écran). L'écran des réglages de l'horloge interne vous laisse ajuster tous les paramètres d'horloge. L'heure peut être réglée manuellement ou automatiquement, l'heure d'été / hiver peut être activée/désactivée, etc. En outre, il y a naturellement des stations que vous ne voulez pas que vos enfants regardent. L'écran du contrôle parental vous permet de bloquer ces programmes inadéquats. Cet écran vous permet également de mettre des restrictions sur l'accès au récepteur, l'accès au menu et l'accès à des chaînes cryptées.

Magnétoscope personnel

Oui, c'est un récepteur PVR, mais si vous êtes le genre observateur, vous pourriez bien avoir remarqué quelque chose : où est le disque dur ? Vous avez besoin d'un disque dur pour enregistrer les émissions, n'est-ce pas ? Eh bien, il s'avère que le SV-360 Elite PVR ne contient pas un disque dur intégré. Au lieu de cela, vous devez relier un dispositif de stockage externe. Ceci pourrait être une unité de disque dur externe mais ce pourrait également être certain autre dispositif de stockage externe tel qu'une clef de mémoire. Et c'est ici que les trois ports USB 2.0 entrent en jeu. Pour nos tests nous avons décidé d'utiliser une clef de mémoire de 4 giga-octets que nous avons eue sous la main. La clef de mémoire peut être branchée à n'importe lequel des trois ports USB. Nous avons employé le port USB du panneau avant en raison de la facilité d'accès. L'enregistrement d'un programme est aussi simple que d'appuyer sur le bouton « Record » rouge sur la télécommande. Quand le bouton Record est pressé, le récepteur

commence immédiatement à enregistrer le programme transmis par la chaîne activée. Poussez simplement la touche "STOP" pour terminer l'enregistrement. Si vous voulez enregistrer une deuxième chaîne pendant que la première s'enregistre encore, commutez tout simplement sur la chaîne que vous voulez enregistrer et répétez le processus mentionné ci-dessus. Les deux chaînes seront enregistrées en même temps. La poussée de la touche Stop vous donnera l'option pour cesser d'enregistrer l'un des canaux ou les deux canaux.

Pour voir une liste de tous les enregistrements qui ont été stockés jusqu'ici, entrez dans le menu PVR du récepteur. Vous pouvez employer les touches de déplacement du curseur pour parcourir la liste et puis presser le bouton de lecture sur la télécommande pour lancer la projection de la séquence désirée. La télécommande dispose de boutons de commande qui vous permettent de faire une pause, un retour en arrière et avance rapide à de diverses vitesses ainsi qu'au ralenti. Il y a également une minuterie pour huit événements, ainsi vous pouvez régler le récepteur pour enregistrer vos programmes préférés tandis que vous êtes loin de la maison. Il y a même une fonction de différé pour ne pas manquer l'émission si quelqu'un vient frapper à votre porte tandis que vous regardez ce film si longuement attendu.

Le récepteur vient également avec un certain nombre d'autres fonctionnalités utiles telles que l'image-dans-image (PIP). Il peut également être employé comme lecteur MP3 et visionneur de JPEG ainsi vous pouvez montrer avec fierté à vos parents et amis toutes ces photos que vous avez prises durant vos dernières vacances.



Liste des stations



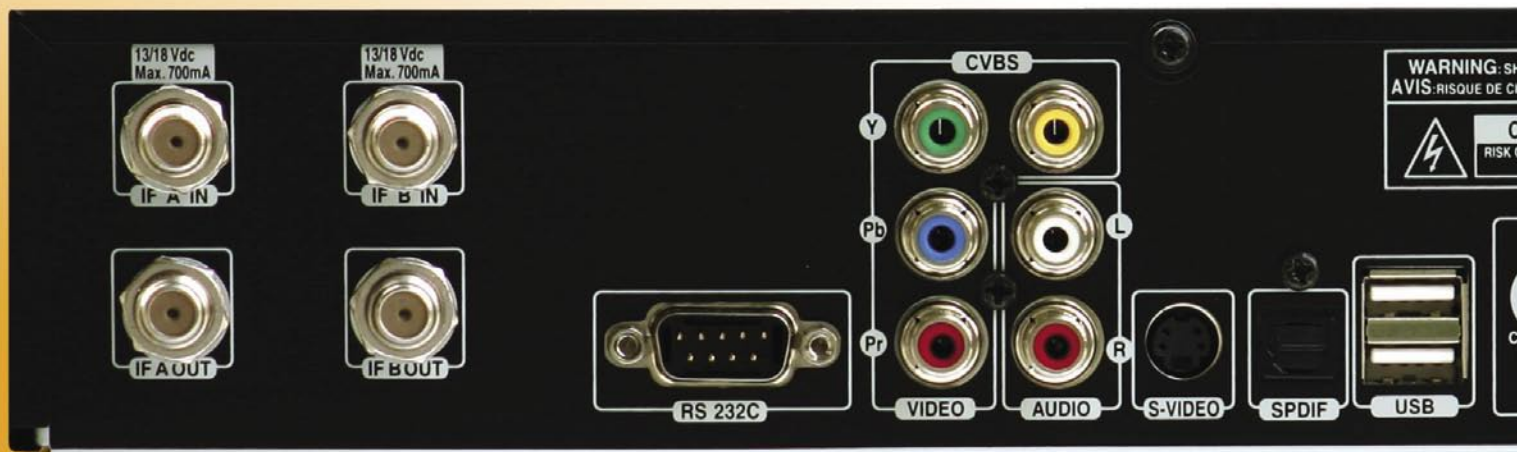
Configuration d'antenne



Liste PVR



Liste des stations PIP



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TECHNIC

DATA

Manufacturer	Sonicview USA, Inc., San Diego California, USA
Tel	+1-760-842-8931
E-mail	sales@sonicviewusa.com
Model	SV-360 Elite PVR
Function	Digital Satellite PVR Receiver with two tuners
Channel Memory	6000
Satellites	195 (plus 5 user-settable)
Symbolrate	1-45 Ms/sec.
SCPC Compatible	yes
USALS	yes
Audio/Video Outputs	yes
Component Outputs	yes (Y, Pb, Pr)
S-VHS Output	yes
S-PDIF Output	yes
USB 2.0 Interface	yes, three
Power Supply	95-250VAC, 50/60Hz

Avis de l'expert



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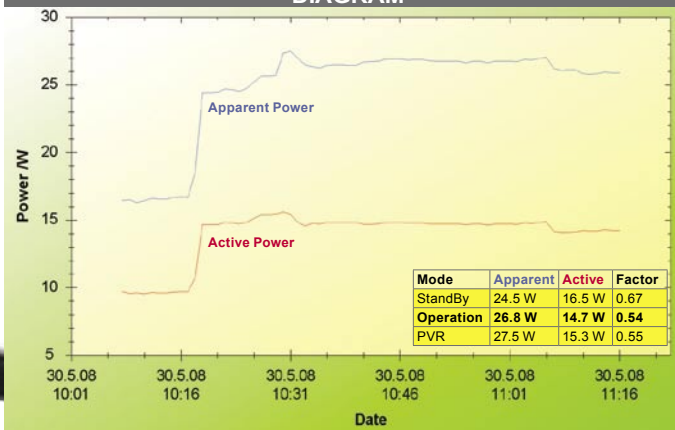
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Le Sonicview SV-360 Elite PVR est un des récepteurs les plus faciles à utiliser sur le marché aujourd'hui. Tous les menus sont pour la plupart explicites bien qu'un manuel d'utilisation détaillé (en anglais seulement) soit également inclus si des questions devaient apparaître. La plupart des fonctions les plus importantes du logiciel peuvent être accédées depuis un seul menu ; aucun besoin de parcourir différents écrans de menu pour trouver de ce que vous avez besoin. C'est certainement un récepteur pour toute la famille qui vient avec une multitude de dispositifs qui rendront heureux n'importe quel utilisateur.

Le récepteur n'a pas une sortie de modulateur mais puisque la plupart des téléviseurs modernes ont aujourd'hui plus d'un type d'entrée, ce n'est pas vraiment un grand problème. Il n'est également pas possible d'installer des limites de fréquence pour un balayage aléatoire.

ENERGY

DIAGRAM



Après la veille le récepteur est mis en route à 10h18. La légère crête de 14.7W à 15.3W s'est produite quand la clef de mémoire a été insérée. À 11h05 le récepteur est mis en veille, avec l'unité de disque dur toujours active.



Venus New Millennium II-EP

Pilotage motorisé commode

Le moteur Venus, monté sur une parabole Venus présenté dans l'édition précédente de Télé-satellite. Le récepteur satellite New Millénium II-EP de Venus est optimisé pour commander ce moteur

De nos jours l'Asie prend en grande partie la tête en technologie de récepteurs satellite, avec un flux constant de récepteurs apparaissant depuis des sites de production tels que la Chine et la Corée. Ici cependant, notre voyage asiatique de découvertes prend un tour différent pour rencontrer le deuxième récepteur en provenance d'Indonésie que nous avons testé. Clairement conçu pour le marché asiatique, celui-ci est un récepteur FTA basique avec un positionneur 36V traditionnel intégré. Il vient de la marque Venus, qui est déjà bien connue aux lecteurs réguliers pour leur parabole segmentée novatrice que nous avons présentée dans notre édition 08/2008. Ce récepteur est spécialement conçu pour fonctionner avec le moteur produit par Venus, que nous présenterons dans une prochaine parution.

Le récepteur est logé dans un boîtier noir pleine taille, mesurant 300x200mm et 60mm de haut. Les contrôles de base sont disponibles sur le panneau avant, où il y a un affichage LED Rouge indiquant le numéro du canal actif, ayant de ce fait une apparence presque rétro. La télécommande grise fait tout ce dont on a besoin avec ce récepteur,



mais il serait plus commode peut-être si elle était mieux assortie avec la couleur du récepteur.

Les raccordements à l'arrière sont limités aux besoins les plus frugaux. Il y a une simple entrée d'antenne avec des bornes de ressort pour relier un moteur 36V. Il

n'y a aucun Scart ou sortie numérique - juste une paire de sorties vidéo composite et le modulateur d'antenne habituelle UHF en boucle. Les sorties audio stéréo sont également présentes, et le panneau arrière est complété par un connecteur d'interface RS-232 à quatre broches. Notre récep-

teur d'essais a été fourni avec un manuel en indonésien seulement. Aucun doute si et quand le New Millénium est vendu dans d'autres pays, il aura un manuel dans les langues locales. Mais un bon test sur la facilité d'utilisation d'un récepteur est de découvrir s'il peut être employé sans manuel.

Le menu d'entrée « Pengaturan Sistem » nous a menés à l'écran de la configuration du récepteur où la langue des menus (« Bahasa ») peut être changée entre indonésien et anglais. Les menus eux-mêmes sont basiques, et le texte quelque peu simpliste, renforçant ainsi un peu plus la sensation rétro.

Configuration initiale

Le positionneur interne fonctionne tout comme les positionneurs autonomes que bon nombre d'entre nous ont pu avoir utilisés dans le passé. 60 positions sont disponibles pour être mémorisées, qui peuvent alors être assignées à un ou plusieurs satellites lors du balayage pour de nouvelles stations. Chaque position satellite est définie juste par un numéro avec le nom du satellite étant placé plus tard quand les canaux sont balayés. Par conséquent notez soigneusement vers où pointe chaque numéro afin d'éviter une confusion par la suite !

Il n'y a pas d'installation automatique en utilisant des satellites de chaque côté de l'arc visible, ni n'importe quelle autre fonction pour mémoriser les limites Est - Ouest dans le récepteur. Ceci signifie que l'utilisateur devra s'assurer que les limites sur le moteur de parabole ont été fixées correctement pour éviter tout accident. Le DiSEqC est inclus pour commuter entre jusqu'à quatre LNBs.

Après que les positions satellites aient été mémorisées, il est finalement temps de lancer le balayage des canaux. 18 satellites couvrant la zone asiatique sont déjà programmés dans le récepteur, ainsi, s'ils sont recevables c'est chose facile de leur assigner le numéro correct de positionneur. De nouveaux satellites peuvent être ajoutés si nécessaire, et leurs noms

peuvent être édités. Les boutons haut/bas habituels sont utilisés pour parcourir l'alphabet et sélectionner chaque lettre du nom, mais n'allez pas trop vite car les deux boutons haut et bas vont vers le haut seulement !

Ajouter des nouvelles stations est de nouveau simplifié au strict minimum. Si comme moi, vous n'appréciez pas la confusion parfois provoquée par des balayages par bouquets et des listes de transpondeurs, vous allez être très contents - il n'y en a rien de ceci dans ce récepteur. Les stations peuvent seulement être ajoutées au récepteur par balayage aléatoire ou entrée manuelle des données des fréquences.

Le balayage aléatoire révèle une omission dans le logiciel du récepteur. Tandis qu'il peut parfaitement piloter un LNB universel avec la pleine gamme des fréquences d'oscillateur local et de la tonalité 22kHz sélectionnées par l'utilisateur, il n'y a aucun moyen pour balayer les bandes hautes et basses en un balayage unique. Pour couvrir la pleine bande Ku nous devons exécuter deux balayages. Le premier, avec la fréquence locale réglée à 9750, qui balayera jusqu'à autour de 11.500GHz. Après ceci, nous devons alors changer la fréquence locale en 10600, activer la tonalité 22kHz et scanner à nouveau pour obtenir le reste des stations. Le récepteur se rappelle les configurations LNB pour chaque station, ainsi une fois mis en mémoire elles

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Available online starting from 26 September 2008



Menu principal

apparaissent correctement lorsqu'on les appelle.

Le balayage aléatoire n'est pas très rapide même lorsqu'on utilise l'option de balayage rapide. Les deux balayages exigés pour trouver toutes les stations sur HOTBIRD ont pris un temps total

de 56 minutes, mais avec la plupart des satellites asiatiques transmettant sur moins de transpondeurs ce n'est pas vraiment un problème. Appuyez sur n'importe quel bouton de la télécommande pour abandonner le balayage, et sauvegarder toutes les stations déjà trouvés. Les stations en double ne sont pas ajoutées à la fin de la liste, à moins que leurs paramètres soient différents. Comme avec beaucoup de récepteurs à balayage aléatoire le débit des symboles affiché est



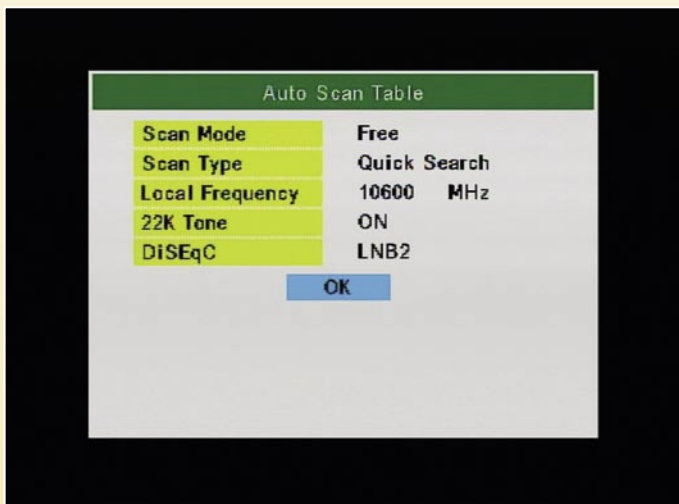
légèrement imprécis, le plus souvent de l'ordre de 30 au-dessus de la réalité. Il vaut mieux ajouter les stations individuelles manuellement, s'étant procuré au préalable une table de SatcoDX par exemple. L'introduction du débit de symboles, de la fréquence, et de la polarité est nécessaire. Dans ce cas, toutes les stations trouvées sont ajoutées à la fin de la liste, que ce soit de doublons ou pas.

L'organisation des stations après qu'elles aient été balayées et stockées se fait à un niveau

tions radio sont ajoutées et éditées de la même façon que les chaînes TV, mais depuis page séparée du menu.

Utilisation au quotidien

Quand le moment est finalement venu pour regarder la TV, une pression sur le bouton OK nous donne la liste de toutes les stations stockées. Cette liste peut être réduite à chaque satellite individuel en utilisant le bouton

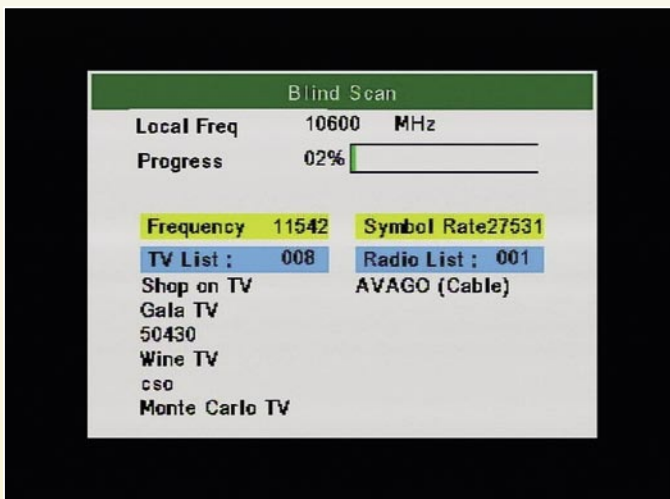


Avancement du balayage aléatoire

très rudimentaire. Chaque entrée dans la liste des stations peut être déplacée à travers la liste, marquée pour la suppression, ou ajoutée à une seule liste de favoris. La liste de favoris ne peut pas être appelée ou éditée seule - les favoris peuvent seulement être localisés par leur symbole de cœur lors du défilement de la liste principale qui ne peut pas être triée non plus. Les boutons P+ et P- sont utilisés pour naviguer entre les stations marquées comme favoris. Les sta-

marqué MENU. Les boutons de P+ et P- permettent le passage satellite prochain ou précédent.

Cette liste revient toujours sur l'affichage de tous les satellites, ainsi il est probablement préférable de se rappeler des numéros de canal ou d'utiliser la fonction de favoris au lieu de faire défiler et de rechercher indéfiniment la chaîne souhaitée. La recherche alphabétique généralement trouvée sur beaucoup de récepteurs moder-



Options du balayage aléatoire

nes serait une fonction bien utile ici. Quand un canal est sélectionné pour être visionné dans cette liste, l'image s'agrandit de sa petite fenêtre pour remplir pleinement l'écran, ce qui est une petite particularité agréable.

considérant que nous avons seulement les sorties UHF ou des vidéo composites au choix. Les transmissions en format large sont reconnues, jusqu'à un certain point. Le récepteur suppose toujours qu'un téléviseur 4:3 TV est employé, et des barres de noir sont insérées en haut et en bas de

La qualité de l'image est OK,



Liste des stations



l'écran si une transmission en 16:9 est détectée. Le visionnement de tous les jours, une fois que nous avons installé les stations et les satellites que nous souhaitons, est simple et assez facile. Le zapping entre les canaux est assez rapide, et le bouton SORTIE est utilisé pour commuter au canal visionné précédemment.

Les canaux audio et les PID peuvent être édités rapidement si nécessaire, ce qui est un avantage quand une station change ses PID - nous ne devons pas craindre de

derniers est actif et le reste des images gelées. Le système télétexte n'est pas disponible.

Résumé

Après l'installation initiale, Le New Millenium II-EP convient parfaitement au visionnement TV de tous les jours et le zapping pour autant qu'on ait pas besoin de faire un tri ou autre édition de la liste. Le récepteur est à son mieux quand il s'agit de piloter le moteur Venus ce qu'il fait plutôt superbement. En dépit de quelques endroits où les



Barre bleue d'informations

devoir relancer un balayage aléatoire ou exécuter une introduction manuelle de la fréquence juste pour changer ce petit détail. Le bouton INFO affiche un écran utile détaillant le nom et les paramètres de la stations et permet le réglage fin de la position de la parabole.

Le bouton EPG sur la télécommande ne donne pas la grille des émissions mais à sa place un affichage « PIP » de 9 canaux. Comme d'habitude, seulement un de ces

menus pourraient être rendus plus clairs ou plus faciles à naviguer, sa conception basique a fait que j'ai eu peu de problèmes à retrouver mon chemin dans les menus du récepteur sans devoir consulter le manuel indonésien, de sorte que le test soit finalement concluant. La nature du récepteur élargit le spectre de la réception multi-satellite aux gens qui pourraient être découragés par le coût d'un récepteur avec un positionneur intégré.

Avis de l'expert



Andy Middleton
TELE-satellite
Test Center
UK

+

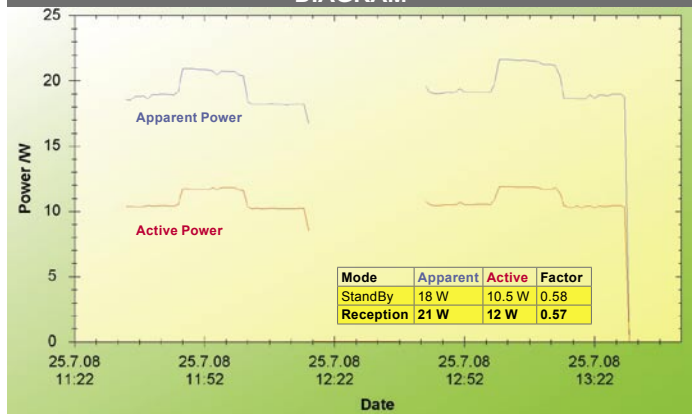
Stockage de données et édition des listes peu compliqué de canal ainsi que la manipulation facile d'un moteur 36 Volts avec balayage aléatoire rend ce récepteur utilisable par des radioamateurs.

-
Pas de sorties Scart ou audio numérique

TECHNIC DATA

Manufacturer	PT. Subur Semesta, Jln. Kamal Raya No. 8, RT. 0014/RW. 09 Tegal Alur, Jakarta Barat 11820
Tel	+62 21 5559733
Fax	+62 21 5559805 / 5555009
Email	subur@dnet.net.id
Model	Venus New Millennium II-EP
Satellites	60
SCPC compatible	yes
USALS	No
DiSEqC	1.2
Scart connectors	0
Symbol rates	2-45 Ms/sec
Audio/Video outputs	4 (two video + left/right audio)
UHF output	Yes, channels 21-69
0/12 volt output	No
Digital audio output	No
EPG	No
C/Ku-band compatible	Yes
Power supply	100-240 VAC, 50-60Hz

ENERGY DIAGRAM



AWARD Winning Satellite Receivers

TELE SATELLITE AWARD & BROADBAND
10-11/2008

IMPERIAL SATBOX HD
Perfect HDTV Reproduction with Ease of Use and Extraordinary Display

Manufacturer	DVB-Shop
Website	www.dvbshop.net
Function	HDTV satellite receiver
DVB-S2/LAN	●/●
Channel Memory	7000
DiSEqC	1.0 / 1.2
S-Video/HDMI	—/●
Scart/Digital Audio	●/●



TELE SATELLITE AWARD & BROADBAND
10-11/2008

TOPFIELD TF7700HSCI
A solidly built SDTV and HDTV receiver that includes a variety of very practical features

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



TELE SATELLITE AWARD & BROADBAND
10-11/2008

SONICVIEW SV-360 ELITE PVR
A family-friendly receiver and easiest to use with a multitude of features

Manufacturer	Sonicview USA
Website	www.sonicviewusa.com
Function	Digital satellite PVR receiver with two tuners
DVB-S2/LAN	—/—
Channel Memory	6000
DiSEqC	1.0 / 1.1 / 1.2
S-Video/HDMI	●/—
Scart/Digital Audio	—/●



TELE SATELLITE AWARD & BROADBAND
10-11/2008

VENUS NEW MILLENNIUM II-EP
Easy to use receiver for big motorized dishes at an economic price

Manufacturer	PT. Subur Semesta
Website	www.subursemesta.com
Function	Digital satellite receiver for motorized dishes
DVB-S2/LAN	—/—
Channel Memory	4000
DiSEqC	1.2
S-Video/HDMI	—/—
Scart/Digital Audio	—/—



TELE SATELLITE AWARD & BROADBAND
08-09/2008

ABCOM IPBOX 9000 HD PLUS
A huge range of connection options make this box a true all-rounder – yet it remains easy to use as a family receiver.

Manufacturer	ABCom
Website	www.abipbox.com
Function	HDTV PVR for DVB-S, DVB-S2, DVB-C and DVB-T
DVB-S2/LAN	●/●
Channel Memory	10000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	●/●
Scart/Digital Audio	●/●



TELE SATELLITE AWARD & BROADBAND
08-09/2008

IMPERIAL DB 1 CI HDMI
Practical and user-friendly interface – the perfect match for satellite radio listeners and DXers


Distributor	DVBShop
Website	www.dvbshop.net
Function	Digital satellite receiver with CI-Slot
DVB-S2/LAN	—/—
Channel Memory	5000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	—/●
Scart/Digital Audio	●/●



TELE SATELLITE AWARD & BROADBAND
06-07/2008

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

Manufacturer	Arion, South Korea
Website	www.arion.co.kr/global
Function	Digital satellite PVR receiver with built-in Scaler
DVB-S2/LAN	●/—
Channel Memory	8000
DiSEqC	1.0 / 1.1 / 1.2 / 1.3
S-Video/HDMI	●/●
Scart/Digital Audio	●/●



TELE SATELLITE AWARD & BROADBAND
04-05/2008

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


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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

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

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



TELE SATELLITE AWARD & BROADBAND
04-05/2008

TOPFIELD TF7720HSIR
Ideal HDTV Receiver for FTA and Irdeeto encrypted channels

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
02-03/2008

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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

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



TELE SATELLITE AWARD & BROADBAND
12-01/2008

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

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



TELE SATELLITE AWARD & BROADBAND
10-11/2007

TECHNOTREND S2-3650CI
HDTV Reception with Many Features for Little Money

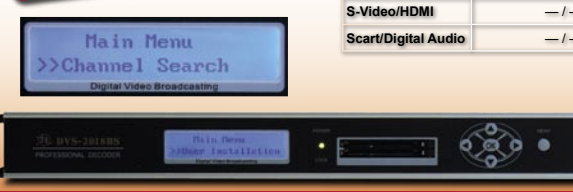
Manufacturer	DVB-Shop
Website	www.dvbshop.net
Function	USB box for reception of DVB and DVB-S2 in SDTV/HDTV
DVB-S2/LAN	● / —
Channel Memory	unlimited
DiSEqC	1.0
S-Video/HDMI	— / —
Scart/Digital Audio	— / —



TELE SATELLITE AWARD & BROADBAND
10-11/2007

JIUZHOU DVS-2018BS
Very Stable, Solid Receiver for Professional Use

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



TELE SATELLITE AWARD & BROADBAND
10-11/2007

TECHNISAT DIGITSIM S2
Exceptional Mini-receiver with Very High Signal Sensitivity and Ease-of-Use

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



Spaun à 40 ans

Entrée dans la nouvelle décennie avec beaucoup de nouveaux produits

Alexander Wiese

Eh bien, en fait, le titre n'est pas tout à fait correct ; la compagnie Spaun ne célèbre son quarantième anniversaire qu'en 2009. Mais Spaun est si plein d'énergie et sur le point de présenter un éventail de nouveaux produits durant leur année d'anniversaire que nous ne pouvions simplement pas attendre de présenter la longue histoire de cette entreprise.

Presque chaque lecteur de Télé-satellite associera le nom Spaun aux composants de haute qualité de distribution de signaux satellite. La qualité du « fabriqué en Allemagne » est leur devise ; La mission de Spaun dans la vie est de garantir que la qualité de leurs produits est toujours maintenue au plus haut niveau.

Mais nous traiterons de cela plus tard. Voyons d'abord quelle est cette entreprise Spaun : il s'agit d'une compagnie qui se trouve aux confins de l'Allemagne du sud-ouest. Le fondateur de la compagnie, laquelle compte aujourd'hui presque 100 employés, est Friedrich Spaun. Il nous a expliqué comment il a fait ses débuts : « Tout a commencé pour moi sur ma table de cuisine en 1969. » En cette époque la radio en FM en Allemagne commençait tout juste à transmettre en stéréo. Il est rapidement devenu évident qu'un grand nombre des postes radio utilisés en ces jours n'obtenaient pas suffisamment de signal d'antenne - un amplificateur était néces-

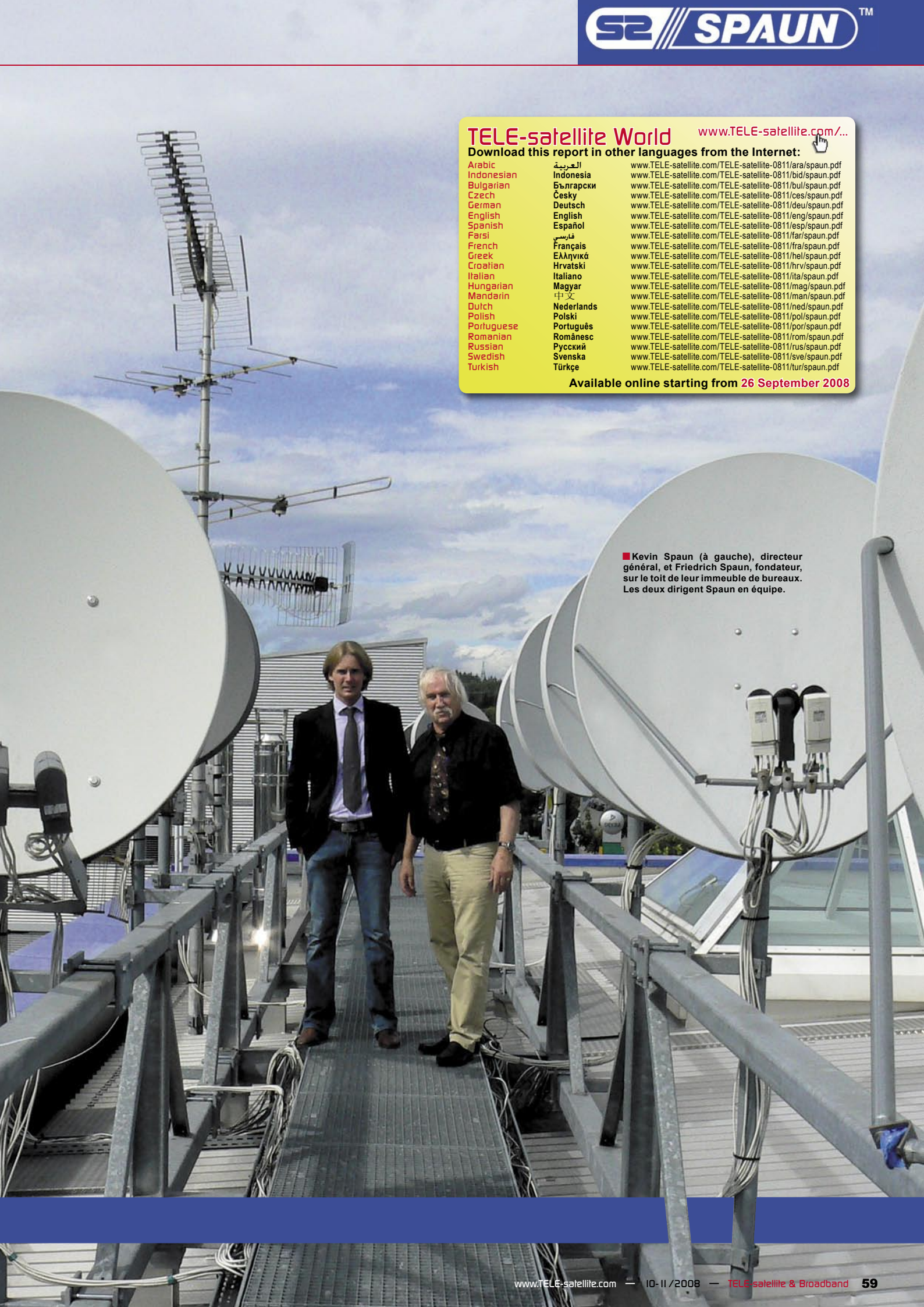
saire pour augmenter le rapport signal/bruit. « J'ai construit un circuit d'amplificateur qui a été installé dans les antennes d'intérieur fournies par un grand fabricant », se rappelle Friedrich Spaun. C'était le début de son entreprise individuelle.

En 1972 sa petite entreprise avait un tel succès qu'il a pu engager ses premiers employés. « En 1974 la vraie production d'amplificateurs multi fréquences et des distributeurs passifs a été commencé », se rappelle Friedrich Spaun. Naturellement, en cette époque c'étaient des composants pour la télévision terrestre et Spaun était seulement un fabricant OEM pour d'autres sociétés allemandes. En 1980 ont été ajoutés à l'éventail des produits les amplificateurs pour télévision par le câble.

Jusqu'ici la production a eu lieu dans une maison louée, mais tout cela a changé en 1988 : « C'est à cette date que nous avons établi nos installations de production à Singen où nous

■ Une vue de l'immeuble de bureaux de la compagnie Spaun à Singen en Allemagne du sud-ouest. Derrière le bâtiment vers la droite se trouvent les installations de production pour les multi commutateurs de Spaun.





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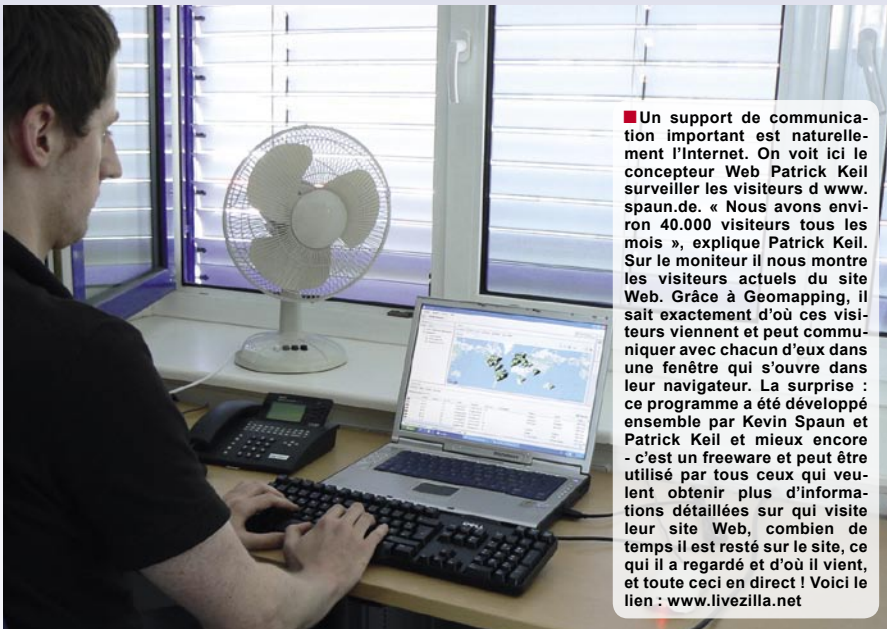
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Turkish	Türkçe	www.TELE-satellite.com/TELE-satellite-0811/tur/spaun.pdf

Available online starting from **26 September 2008**

■ Kevin Spaun (à gauche), directeur général, et Friedrich Spaun, fondateur, sur le toit de leur immeuble de bureaux. Les deux dirigent Spaun en équipe.



■ Un client a un problème. Steffen Kuck est directeur de support technique et aide les clients de Spaun quotidiennement de 8h du matin à 12h et de 13h à 17h. Un de ses outils est le CD-ROM de SatcoDX avec ses données sur tous les satellites au monde



■ Un support de communication important est naturellement l'Internet. On voit ici le concepteur Web Patrick Keil surveiller les visiteurs de www.spaun.de. « Nous avons environ 40.000 visiteurs tous les mois », explique Patrick Keil. Sur le moniteur il nous montre les visiteurs actuels du site Web. Grâce à Geomapping, il sait exactement d'où ces visiteurs viennent et peut communiquer avec chacun d'eux dans une fenêtre qui s'ouvre dans leur navigateur. La surprise : ce programme a été développé ensemble par Kevin Spaun et Patrick Keil et mieux encore - c'est un freeware et peut être utilisé par tous ceux qui veulent obtenir plus d'informations détaillées sur qui visite leur site Web, combien de temps il est resté sur le site, ce qui il a regardé et d'où il vient, et toute ceci en direct ! Voici le lien : www.livezilla.net

sommes encore établis aujourd'hui et étions aussi en même temps un pionnier de la branche », commente Friedrich Spaun pendant qu'il nous montre les murs extérieurs faits en aluminium : « Pendant beaucoup d'années nous étions un point de référence pour le fabricant de ces murs. » Il a alors expliqué comment Spaun est arrivé aux couleurs de la société : « Ce sont initialement les couleurs des murs du bâtiment, du bleu et l'argenté et nous avons décidé d'adopter ces couleurs à notre identité d'entreprise. »

Spaun a seulement existé comme nom de marque autonome depuis 1991. Ceci a eu lieu après la chute du mur de Berlin. Jusqu'à ce moment, Spaun a seulement livré ses produits en République Fédérale d'Allemagne ; il n'y avait aucune vraie tendance à exporter les produits. Le marché de l'Allemagne de l'Est apporté tant de nouvelles occasions que Friedrich Spaun a finalement décidé : « Nous allons maintenant distribuer nos produits sous notre propre nom de marque ! »

En 1993 son premier produit à grande réussite était une multi commutateur pour deux satellites et une entrée TV terrestre suivi peu après de modèles à quatre et à huit entrées satellite. Ces produits ont été rapidement exportés vers les pays voisins. Aujourd'hui 50 % de leurs produits sont exportés, dont 30 % sont embarqués aux pays d'UE avec 20 % finissant leur voyage en dehors de l'Europe. Les ventes totales pour Spaun s'étendent entre 12 et 15 millions d'euros par année.

C'est ici où Kevin Spaun entre en action. Il a repris les opérations de l'entreprise de son père Friedrich Spaun au début 2008. « Mais nous dirigeons la compagnie en équipe », confirment les deux en même temps.

Kevin Spaun veut augmenter le chiffre affaires d'exportation : « En ce moment nous sommes en cours de nous consolider sur le marché nord-américain ; nous recherchons les distributeurs locaux et voulons également ouvrir notre propre bureau de distribution aux Etats-Unis », indique Kevin Spaun, « nous voulons également une présence plus forte dans le Moyen-Orient. »

Spaun propose presque 200 produits différents dont les produits plus vendus sont, et ont toujours été, des multi commutateurs



■ Le directeur général de Spaun, Kevin Spaun aime également mettre les mains dans la pâte parfois en examinant les multi commutateurs. Les signaux d'antenne captés sur le toit arrivent ici et peuvent être reliés aux multi commutateurs dans n'importe quel ordre. Les problèmes des clients peuvent ainsi être répliqués et être vérifiés ici.



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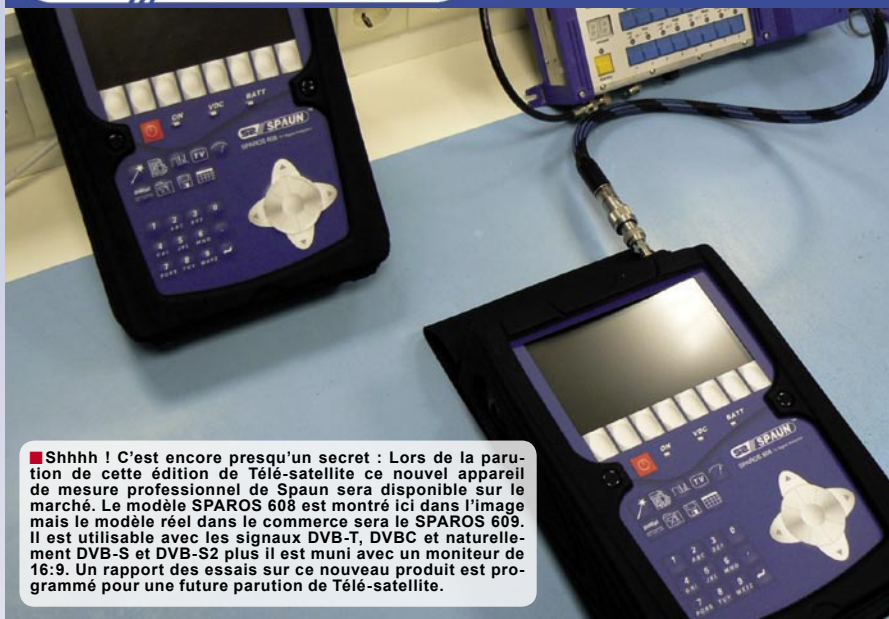
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■ Shhhh ! C'est encore presque un secret : Lors de la parution de cette édition de Télé-satellite ce nouvel appareil de mesure professionnel de Spaun sera disponible sur le marché. Le modèle SPAROS 608 est montré ici dans l'image mais le modèle réel dans le commerce sera le SPAROS 609. Il est utilisable avec les signaux DVB-T, DVBC et naturellement DVB-S et DVB-S2 plus il est muni avec un moniteur de 16:9. Un rapport des essais sur ce nouveau produit est programmé pour une future parution de Télé-satellite.



■ Un vue de l'entrepôt. Le directeur des expéditions Christoph Reichle nous dit, « nos stocks courants suffisent pour environ 3-4 semaines. » Les camions viennent quotidiennement pour prendre les paquets et les palettes pour nos clients.

Production of a Multiswitch



■ C'est une platine à quatre couches fournie par une entreprise externe. C'est le bloc qui constitue la base du multi commutateur.

disponibles avec 5, 9 et 17 entrées avec une des entrées réservée pour les signaux terrestres.

Kevin Spaun est fier de leur gamme de produits de multi commutateurs : « Avec nos unités de base à 9 et 17 entrées nous avons pu réaliser des systèmes de distribution pour jusqu'à 3000 utilisateurs », explique Kevin Spaun, « personne d'autre n'a pu faire cela. » Les clients de référence pour les systèmes aussi grands sont par exemple, la tour de résidence de plage de Jumeirah à Dubaï, le centre de développement de Nokia en Suède, les sièges sociaux de Microsoft à Prague, EUTELSAT à Paris, l'ambassade japonaise à Berlin et beaucoup d'autres. Les multi commutateurs de Spaun peuvent même être trouvés sur de nombreux yachts de luxe, en effet, chaque cabine a besoin ont son propre signal satellite, n'est-ce pas ?

Enfin, nous avons également voulu savoir tous les nouveaux produits qui sont prévus pour être présentés durant leur année d'anniversaire. Kevin Spaun a pris une respiration profonde et a commencé, « au printemps 2009 nous voulons présenter au marché un système de distribution de fibres optiques. » Ce type de système peut fournir le signal pour 10.000 utilisateurs ou plus.

Cette technologie de fibres optiques sera seulement employée dans la distribution des signaux satellites. Avant qu'il n'atteigne l'utilisateur, le signal transporté par fibres optiques est converti à nouveau en un signal numérique standard et puis conduit par des multi commutateurs aux récepteurs. « Ceci fonctionne seulement avec un émetteur laser très puissant », explique Kevin Spaun et continue par faire allusion aux nombreuses nouvelles îles artificielles qui émergent de l'eau à Dubaï, « ceci nous permettra d couvrir une île entière. »

Avant que cette édition se trouve dans vos mains, on présentera un nouveau produit que vous n'attendriez pas de Spaun : un appareil de mesure de signaux hautement professionnel. « Naturellement, il traite les signaux DVB-S2 et a également un moniteur en 16:9 », explique Kevin Spaun, « les installateurs d'antenne veulent aussi voir la TVHD sur leurs unités de mesure », quoiqu'ils devraient en fait seulement l'employer pour référence.

Également nouvellement proposé par Spaun est le câble coaxial présenté sous le nom de « Spoax ». Sa couleur ? Vous avez trois tentatives pour la deviner. Non pas blanc. Et non, pas noir non plus. Si vous avez deviné le bleu, vous étiez juste - les couleurs de l'entreprise. « Avec ce câble coaxial et les connecteurs assortis, nous pouvons construire le système de distribution de signaux parfait », indique Kevin la raison de l'expansion de la palette de produits. Le but ? « Nous voulons que vous veniez chez nous pour tout. » En d'autres termes, ils veulent fournir tout que vous avez besoin pour la meilleure distribution des signaux satellite.

Et pendant que nous sommes sur ce sujet, une autre innovation s'y adapte bien aussi: les prix. « Sans compromettre la qualité », commente Kevin, « nous commençons un segment de nouveaux produits à des prix sensiblement inférieurs. »

La gamme de produits de la catégorie supérieure qui jusqu'ici ont été fournis par Spaun a été étendue début 2008 pour inclure les produits standard. Peu de temps après que cette édition sera éditée, la classe « Light » fera ses débuts sur le marché. Kevin Spaun



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■ Ces machines automatisées installent tous les composants sur les circuits imprimés.



■ L'employé de Spaun Habib Ferchichi vérifie une platine terminée.
« En général seulement une sur 1000 ont un problème », explique-t-il.



■ Où va ensuite cette platine ? Dans un boîtier en métal, naturellement. Et d'où viennent ces boîtiers ? D'ici, de cette machine emboutisseuse sur laquelle se trouve un rouleau de tôle de 36mm de large et de 0,7mm d'épaisseur avec un enduit de nickel de 0,02mm. Une bobine pleine pèse approximativement 100 kilogrammes et a une longueur de 400 m.



■ Les morceaux en métal découpés sont placés par l'employé de Spaun Frank Heller dans cette machine à poinçonner et à cintrer. Tous les trous pour les connecteurs « F » sont poinçonnés par la machine en un seul passage.



■ Au-dessus le morceau de tôle encore plate avec les trous perforés pour les connecteurs « F ». Au-dessous, le même morceau avec les côtés incurvés. Voici donc le processus depuis le morceau de tôle vers un côté d'un multi commutateur.



■ Ceci est une machine automatisée de fabrication de colliers. L'employé de Spaun Herbert Aichem produit approximativement 800 de ces colliers à chaque heure. Ils sont utilisés pour le filtre de la voie de retour.



■ Les colliers sont extrêmement petits.

explique le raisonnement : « Il n'y a absolument aucune différence de qualité, seulement dans ce qui est compris avec. » Alors que par exemple, un multi commutateur de la catégorie supérieure pourrait inclure une commande de niveau réglable, ce dispositif ne sera pas disponible dans les produits de la catégorie « Light » ayant alors comme conséquence seulement deux choix. « La situation des prix sera comme ceci : si un produit de la catégorie supérieure a un prix indiqué de 100 %, l'article de la catégorie standard sera à 75 % et le choix de catégorie Light sera à 50 % », explique Kevin.

Alors, quoi d'autre est encore nouveau ? « Un commutateur à large bande pour le marché des États-Unis », répond Kevin, « il utilise une gamme de fréquences au-dessous (!) de la bande IF normale pour la distribution des signaux TVHD en particulier ceux du fournisseur de télévision à péage DirecTV. » Plus spécifiquement, ceci signifie que la gamme de 250 à 950 mégahertz sera employée pour la distribution de signaux IF satellite en plus de la gamme standard de 950 à 2050 mégahertz. Télé-satellite publiera un article plus détaillé sur ce produit innovateur qui pourrait également être intéressant pour d'autres marchés en dehors de des USA, avec un rapport de test dans la prochaine édition. Patrick Schmid est le responsable de ces produits. Il appartient à la génération des petits enfants du fondateur Friedrich Spaun et est déjà un employé de la compagnie.

Friedrich Spaun s'occupe également d'un autre sujet complètement différent, qui n'a pas été beaucoup considéré jusqu'à présent, mais qui jouera certainement un rôle beaucoup plus grand à l'avenir et auquel Télé-satellite a commencé à mettre de l'importance depuis maintenant plusieurs éditions : l'utilisation efficace de l'énergie par les alimentations des divers appareils consommateurs ! « Mon fils et moi ensemble dirigeons une nouvelle entreprise, la « Spaun Power », explique Friedrich Spaun pendant qu'il nous indique du doigt un bâtiment de l'autre côté de la rue, « très bientôt nous commencerons la production d'alimentations des commutateurs, non seulement pour notre usage personnel d'approximativement 150.000 alimentations par année, mais également comme produit OEM. »

Le manque d'énergie toujours croissant dans le monde entier nous obligent d'avoir un œil plus attentif à l'efficacité des alimentations d'énergie. Mais ce n'est pas la seule raison. « Le composant le plus délicat dans un multi commutateur est l'alimentation d'énergie », explique Friedrich Spaun, « ici nous trouvons l'origine de la plupart des pannes. » Friedrich Spaun est tout à fait convaincu : « une alimentation d'énergie fiable qui utilise le moins possible d'électricité est nécessaire partout. »

Voici comment Spaun, dans sa quarantième année, se bâtit une autre source de revenus en augmentant en même temps son commerce de distribution de signaux pour inclure tout ce que vous pourriez probablement avoir besoin. C'est une stratégie qui semble être très réussie comme Friedrich Spaun confirme dans son résumé sur son entreprise :

« Chaque année pour moi a été une année réussie et profitable. » Tous les bénéfices sont réinvestis dans l'entreprise familiale de sorte que Spaun puisse s'agrandir toute seule.

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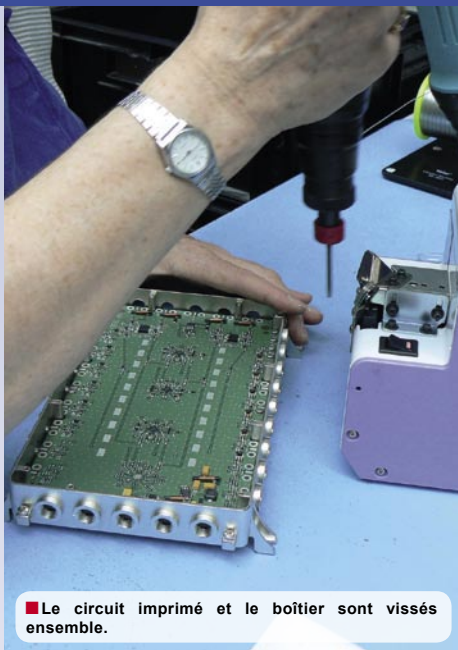
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■ Comment est-ce que les connecteurs entrent dans le boîtier ? Les connecteurs « F » sont vissés dans les trous pré perforés.

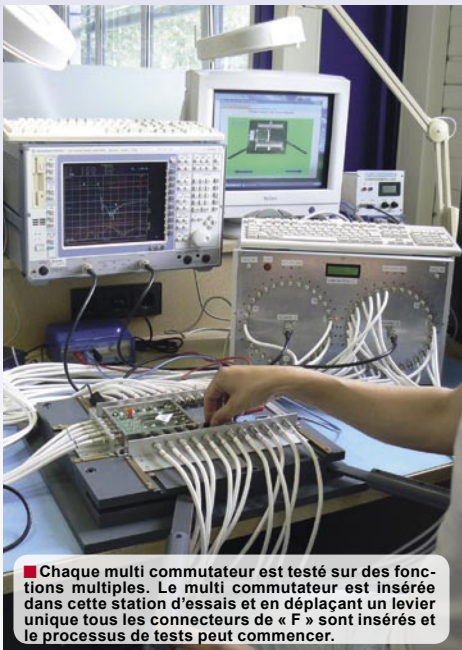


■ Le circuit imprimé et le boîtier sont vissés ensemble.



■ Pour finir le processus, le couvercle est vissé en place. Friedrich Spaun explique : « Ceci est un point très délicat : dans des boîtiers assez petits, les couvercles flexibles peuvent fournir une protection EMV suffisante. Avec de plus grands boîtiers, ce niveau de protection peut seulement être réalisé en utilisant un grand nombre de vis. »

Qualité sur mesure



■ Chaque multi commutateur est testé sur des fonctions multiples. Le multi commutateur est insérée dans cette station d'essais et en déplaçant un levier unique tous les connecteurs de « F » sont insérés et le processus de tests peut commencer.



■ L'employé de Spaun Peter Fuchs nous montre le processus des tests sur une station d'essais pour les modèles à 17, la plus grande des dix stations d'essais utilisées par Spaun. « Dans le passé, un essai complet durait près de 50 minutes », explique Peter Fuchs, « aujourd'hui seulement trois minutes sont nécessaires pour examiner automatiquement chaque fonction. »



■ Après l'accomplissement du processus de tests, le PC imprime un numéro de série qui est alors fixé au boîtier. Les résultats des tests sont archivés de sorte que Spaun puisse rappeler les résultats d'un test pour n'importe quel multi commutateur sorti de la chaîne.



■ Friedrich Spaun tenant un multi commutateur terminé : « Nous avons attribué des numéros de série à nos produits depuis 2005 », explique-t-il au sujet de leur contrôle de qualité. Nous pensons utiliser ce numéro de série pour les demandes d'assistance par Internet. De cette façon il serait très facile d'identifier les produits plagiés.



■ Même si un multi commutateur de Spaun passe tous les tests électroniques parfaitement, il n'est toujours pas sûr qu'il soit techniquement sain. Cette partie est vérifiée ici : chaque multi commutateur est placée avec son alimentation d'énergie dans cette chambre d'essais à haute tension. De cette façon Spaun peut garantir que le multi commutateur réalisé est 100% parfait. Ils sont si sûrs de leur produit qu'ils fournissent une garantie de cinq ans. « En réalité », explique Friedrich Spaun, « nous réparons les produits qui sont plus anciens que cinq ans. » Il est très simple, ils sont tellement peu que la période de garantie pourrait sans autre être prolongée, « mais pour des raisons légales nous la maintenons à cinq ans », explique Friedrich Spaun.

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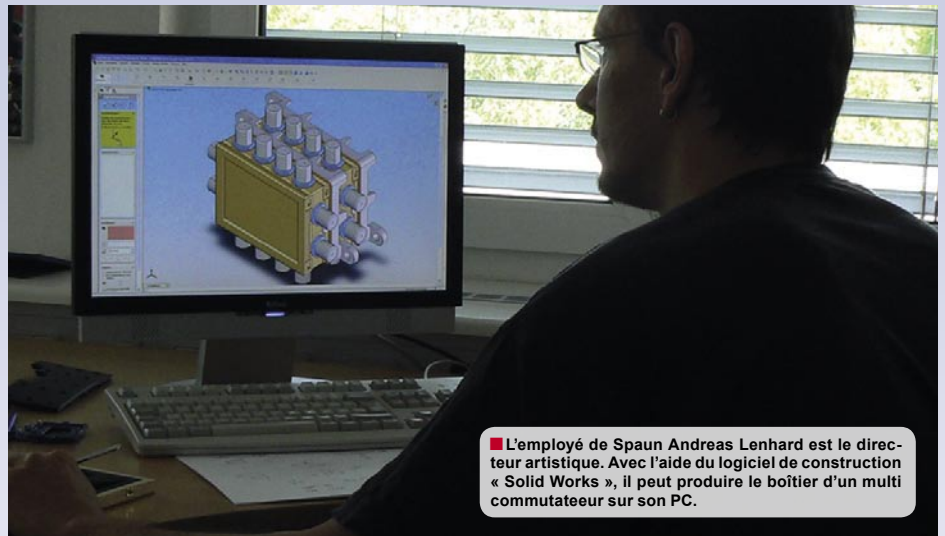
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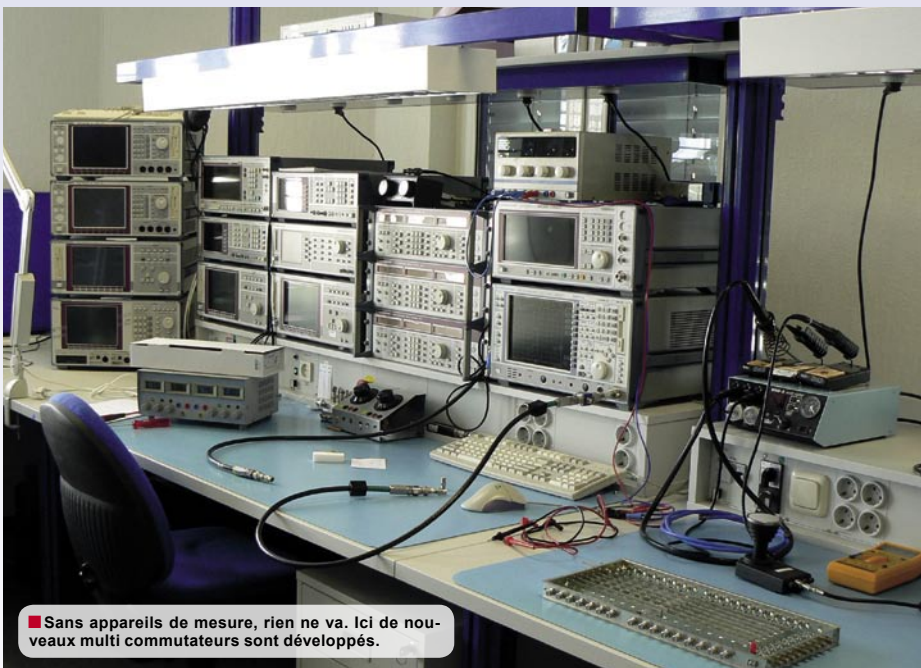
Contrôles de construction et de sécurité des Multi commutateurs



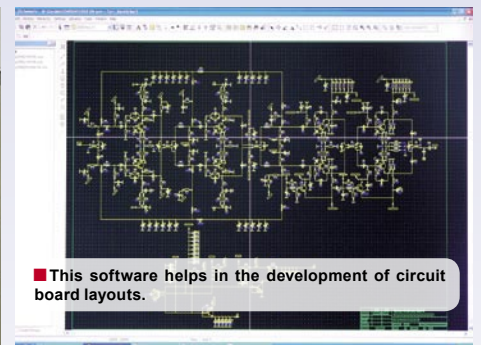
■ Les multi commutateurs terminés sont également placés dans cette chambre à atmosphère contrôlée pour des tests. « Nos caractéristiques déclarent que nos appareils sont testés par des températures allant de -20° C à +50° C », explique Friedrich Spaun, « mais nous examinons naturellement de -30° C à +60° C pour être absolument surs. »



■ L'employé de Spaun Andreas Lenhard est le directeur artistique. Avec l'aide du logiciel de construction « Solid Works », il peut produire le boîtier d'un multi commutateur sur son PC.



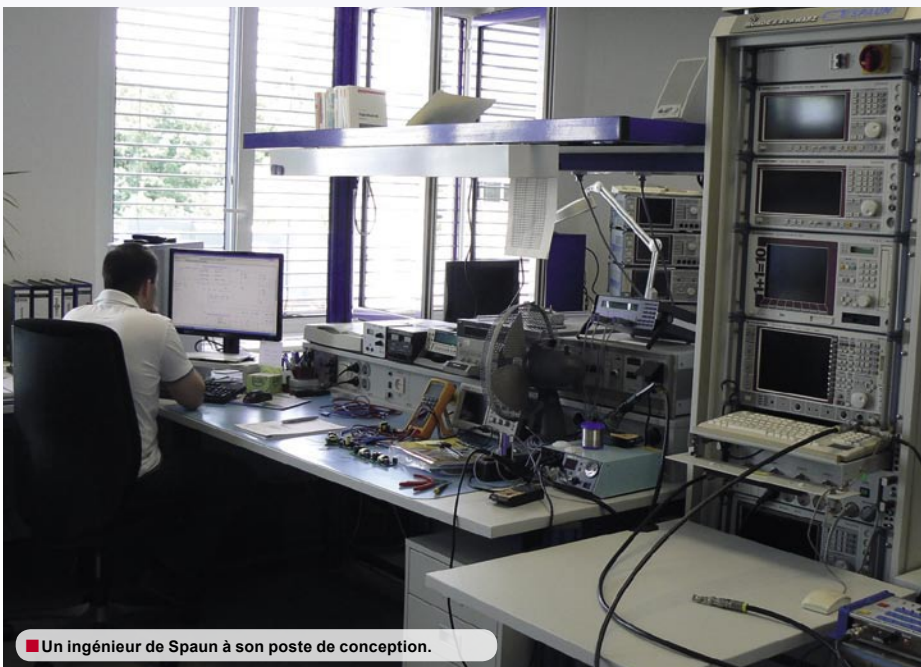
■ Sans appareils de mesure, rien ne va. Ici de nouveaux multi commutateurs sont développés.



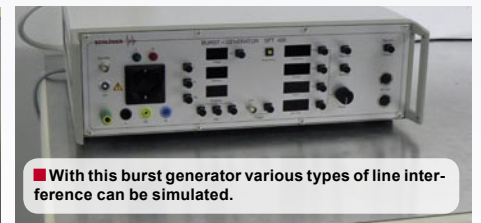
■ This software helps in the development of circuit board layouts.



■ La qualité et la sécurité vont de paire. Pour garantir que les commutateurs de Spaun sont vraiment sûrs, un type de générateur de foudre est employé pour simuler une décharge électrique.



■ Un ingénieur de Spaun à son poste de conception.



■ With this burst generator various types of line interference can be simulated.



■ Avec ce générateur de crête divers types d'interférences de ligne peuvent être simulés. Un employé place un multi commutateur dans la chambre d'essais EMV. En utilisant un émetteur à large bande de cinq Watt, le multi commutateur est examiné sur des signaux inclus dans la chambre d'essais. Ou autrement dit : l'antenne à l'extrémité étroite de la chambre d'essais est placée dans le mode réception afin de vérifier les signaux d'interférences produits par le multi commutateur. Au premier plan on voit un tapis transporteur pour la mesure des interférences dans la gamme de 30 à 1000 mégahertz.

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Clark Electronics 70 Years Old and Full of Ideas

Clark Electronics in southern Holland right at the entrance to the Rotterdam harbor has been around since 1938. This year they are celebrating their 70th anniversary. What better reason for us to pay them a visit and find out what such a long-standing company is all about.

And wouldn't you know it: in their stockroom we found a large supply of vacuum tubes as they were used in broadcasting equipment 70 years ago. That's how Clark Electronics got started: with the production of AM radios. Later on came two-way radios for private and military applications. When it was no longer profitable to do their own manufacturing, Clark Electronics shifted over to wholesale electronic component suppliers – that was in the early 1960's.

In 1993 it was time: the satellite age started at Clark Electronics. The company, in a close relationship with manufacturers in Taiwan and China, began to develop and market receivers for the Benelux (Belgium, Netherlands, Luxembourg) region. In 2000 they entered into a cooperation with Top-field and finally with Arion. "Now we are in the process of developing our own brand name", revealed John Kamp, Director of Clark Electronics.

He doesn't think much of low prices: "If someone wants a satellite receiver, they'll buy one, price is not always the deciding factor", believes John Kamp, although, "this assumes of course that the receiver can do what the customer wants and above all without any errors or crashes!"

John Kamp

believes that the current weak order situation with satellite dealers in Europe has less to do with price and more to do with incorrect product choice.

"The HD market is not quite ready yet; right now it's much better to offer customers SD receivers with upscalers." They also seem to have a similar grip on the available channels. "You're not going to be watching Discovery HD 24 hours-a-day", comments John Kamp, "but rather normal channels that are not yet available in HD." He believes the breakthrough in HD will occur in 2012.

His vision of the future is more towards multimedia anyway. "One day, everyone will have a network server with a very high storage capacity on which TV channels, MP3 files, pictures, etc. can be stored and accessed in any room in the house via the network connection." Clark has already taken a step in that direction: their own receiver will include a universal remote control.

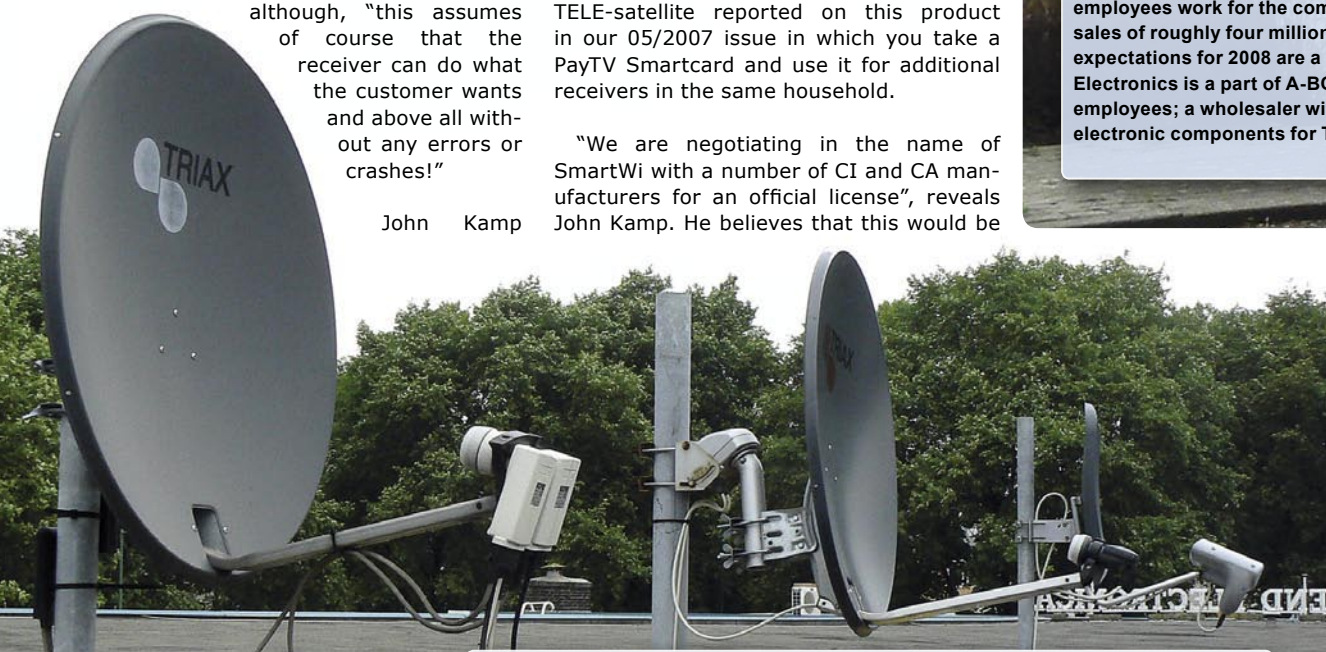
Until that time, John Kamp is focusing on an equally interesting product: SmartWi. TELE-satellite reported on this product in our 05/2007 issue in which you take a PayTV Smartcard and use it for additional receivers in the same household.

"We are negotiating in the name of SmartWi with a number of CI and CA manufacturers for an official license", reveals John Kamp. He believes that this would be



A look in the stockroom in which you will find not only SmartWi products waiting to be delivered to the Benelux countries, but also their own Clark satellite receivers.

The flag gives away the location of Clark Electronics: here in this industrial park where Clark Electronics has its headquarters, 11 employees work for the company and manage sales of roughly four million Euros in 2007 – the expectations for 2008 are a little less. Clark Electronics is a part of A-BC Group with 35 employees; a wholesaler with electronics and electronic components for The Netherlands.

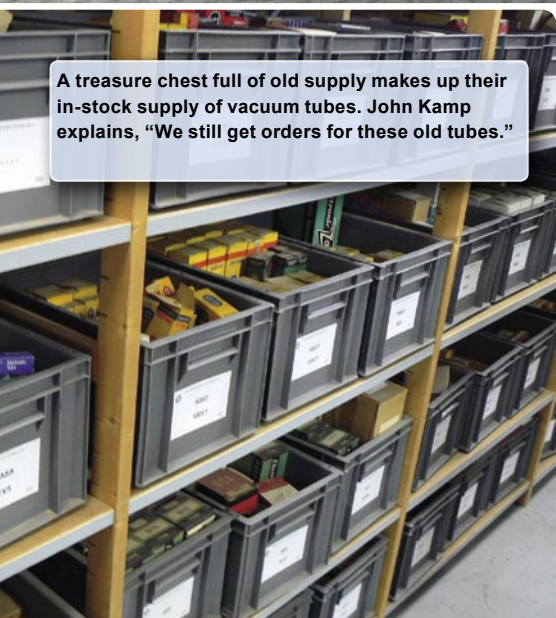


Where does Clark Electronics have its satellite dishes? Right here on their flat roof: a 100cm dish, a 90cm antenna with STAB motor and a 78cm dish. Two in-house technicians handle the repairs, "but most of the repair work has been out-sourced to a service company", explains John Kamp.





John Kamp is Director and COO of Clark Electronics. The map on the wall shows Japan and China. "I usually visit South Korea and China 10 times a year to work with our cooperative partners", explained John Kamp about his business trips.



A treasure chest full of old supply makes up their in-stock supply of vacuum tubes. John Kamp explains, "We still get orders for these old tubes."

an interesting market for PayTV providers. "How often does a second Smartcard ordered from a PayTV provider end up with a neighbor?"

enlightening; something we did not expect from a company celebrating their 70th year!


In his view, the solution is quite simple: if you no longer give out a second Smartcard, it could never come to this. Customers with multiple receivers can instead be offered SmartWi. A simple and truly "smart" solution.

SmartWi is already preparing for the day when their products are officially licensed: the company is now incorporated and working on completing their corporate design.

Our visit to Clark Electronics was very

Clark





■ Mario Sussi in his favorite place: among his satellite dishes. The large dish in the background is the 6.0-meter uplink antenna pointed to EUTELSAT W2 at 16 east. The small 100cm SNAI dish receives the SNAI signal that is then combined with the HOTBIRD signal in their local network. In the background to the left are the microwave antennas for the terrestrial signal network: "Sometimes it's cheaper to transmit the horse racing signals terrestrially, not to mention they are also less susceptible to rain fade since here they are transmitted in the 6 GHz range."

From DXer to Technical Manager A Visit with Mario Sussi from Teleippica in Lucca (Toscana), Italy

Betting on horse racing is a popular pastime in Italy. This is due in large part to Teleippica unifying the horse betting system and reorganizing the network across all of Italy. Teleippica in charge for transmission on behalf of UNIRE's four channels of which two, UNIRE TV "gray" and UNIRE TV "green", are the actual betting chan-

nels and, with the publication of this issue of TELE-satellite, a third channel, UNIRE TV "blue", will have started. There's also the SNAI-TV channel that broadcasts other sports betting events as well as a summary of all broadcasts that is produced with a 15-minute delay for Sky Italia and offered in their Pay TV package.

Naturally, sports betting involves live transmissions. Mario Sussi is responsible for these complex transmissions. He spoke to us about his DXer days in the past, "I tuned into the first satellite transmissions in Europe; that was Project Eurikon back in 1982." Over the years, his antenna farm grew larger and larger to



include a 3.8-meter mesh antenna and a 3.0-meter solid dish. "But that's all in the past", winked Mario, "today there are other problems to solve."

His experiences as a DXer, where he always had to find practical solutions using the simplest methods, help him today to solve much more complex signal processing problems. He gave us an example, "In our own office system we need to not only have access to HOTBIRD but also naturally our own transponder at 16 east." He acquired a narrow LNB, one that he could mount at a 3 deg offset, and fiddled with a single-cable solution so that only one single cable was needed to receive both HOTBIRD and the SNAI-TV transponder at 16 east.

But there are also more complex systems in the works. "We are in the process of converting our system to HD." Even though the transmissions directly from the racing venues are still in SD, Mario came up with his own idea to make it work: he scales the incoming SD signal up to HD and can then transmit the programs in MPEG4 with an 8 MB bandwidth.

It's easy to see that Mario has satellite technology in his blood. He can tell based on the reception signal what encoder is being used. "One encoder manufacturer doesn't have a complete grasp of their technology; you can easily see this", comments Mario.

We asked him as a professional what direction he thought that HDTV would continue to go. For Europe he referred to the state-run as well as the public channels: "they have to lead the way; private channels don't normally take the initiative."

A horror to him is the HD programming from their national PayTV provider Sky: "They scale everything up. This can be

■ SNAI's main office can be found in Lucca not too far from Pisa, Italy.





▲ A look inside the video room. Here the programming clips are put together, sent terrestrially by microwave link to SNAI headquarters in Rome, then back again and then uplinked to the satellite at 16 east.

seen by the customer who then opts away from HD."

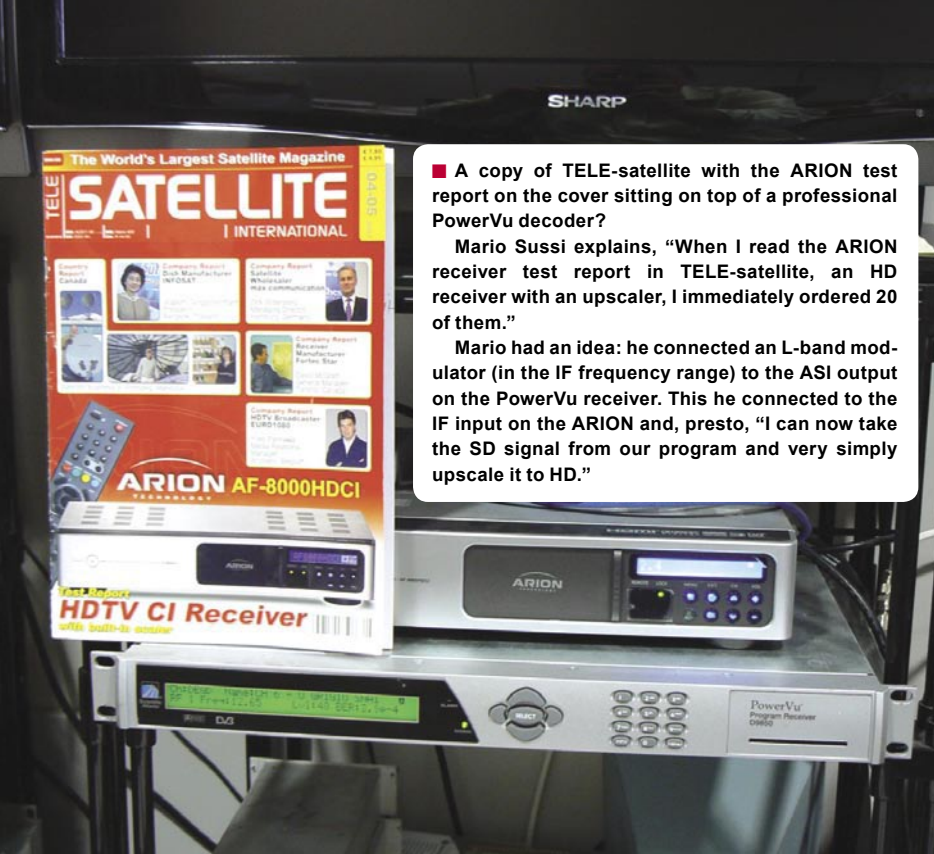
He does see HDTV coming in the future but not as fast as originally hoped. He calculates that the savings that DVB-S2 and MPEG4 bring with it don't compensate for the extra costs customers would need to pay for new receivers.

His arguments for the new fiber optic LNBS from Global Invacom that TELE-satellite recently introduced are similar: "Fiber optic technology is coming; it is beginning to develop in this direction", observes Mario, but he is also skeptical about seeing this in the near future.

Before we left, Mario gave us a hot tip for DXers: "Most feeds today are transmitted in 8PSK - but few DXers can receive them." Why? Isn't 8PSK used with DVB-S2? "Yes, this is true", explained Mario, "but feeds don't transmit in DVB-S2, instead it is normal DVB-S." The problem lies with the readily-available LNBS: "There's not only the noise factor", explains Mario, "you also have phase noise. With a high-quality spectrum analyzer you can see that the carrier drifts very easily."

"As long as it drifts fairly slowly, the receiver is able to follow along. But if the drift is random, phase noise makes it impossible to demodulate the 8PSK constellation, and reception fades away." Mario told us of his experiences: "Pro-

◀ In the heart of Teleippica: from here the five encoders are controlled and the programming is switched over to the uplink. Susanna DelPapa is in charge of this control room.



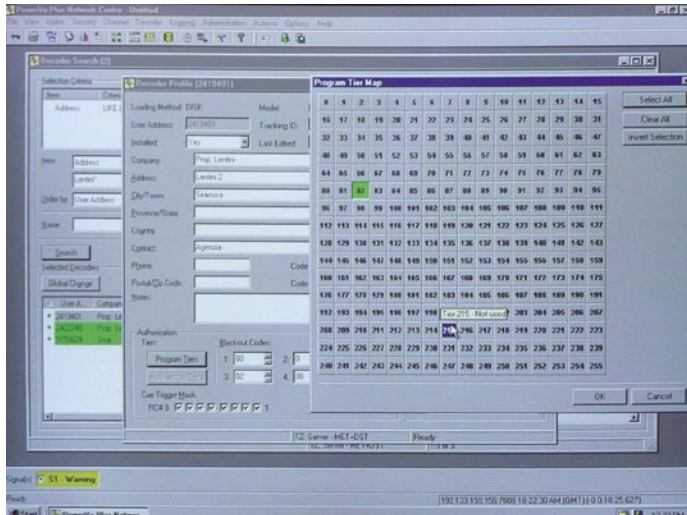
■ A copy of TELE-satellite with the ARION test report on the cover sitting on top of a professional PowerVu decoder.

Mario Sussi explains, "When I read the ARION receiver test report in TELE-satellite, an HD receiver with an upscaler, I immediately ordered 20 of them."

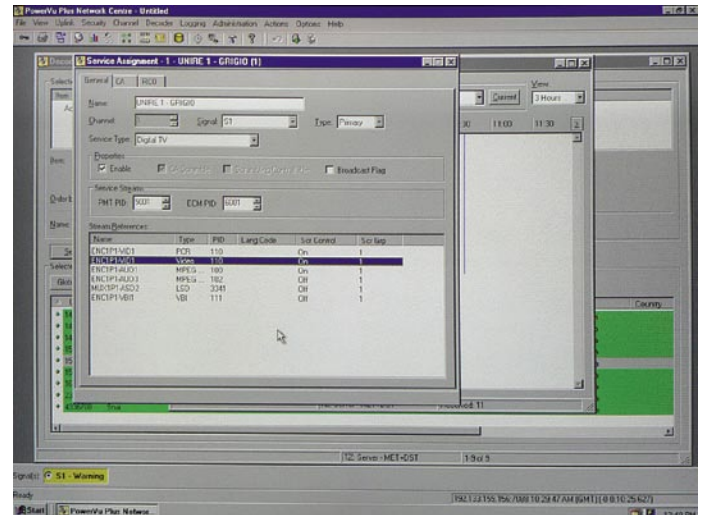
Mario had an idea: he connected an L-band modulator (in the IF frequency range) to the ASI output on the PowerVu receiver. This he connected to the IF input on the ARION and, presto, "I can now take the SD signal from our program and very simply upscale it to HD."



■ Pietro Del Tessoro is Mario Sussi's right-hand man and is also responsible for the uplink encoder.



▲ This is what the control software from PowerVu looks like: with this encryption system, each receiver can be individually controlled. AFRTS, the American Armed Forces Radio and Television Service, also uses PowerVu. Susanna explains how it works: "We can individually turn on and off a maximum of 30,000 customers/receivers; right now we have about 9000 customers." Each customer can be activated for up to 255 individual services; each service could be a video channel, an audio channel or a data channel. On the screen you can see 255 buttons. Button 44, for example, is the video signal from Unive TV "gray". "We can even change the transponder frequency in the receiver from here", explains Susanna about the PowerVu system, "The receiver switches automatically to the new transponder without the customer even realizing it."



▲ The individual PIDs are lined up with the corresponding signals through the PowerVu software.

professional LNBS are very frequency-stable and can therefore receive 8PSK in DVB-S without any problems." For the feedhunters within the DXer group, Mario recommends searching for frequency-stable LNBS. "There are some manufacturers that produce standard LNBS that would fit the bill."

Mario looks at it as part of his job description to always be in step with the technology. But he can also see the dangers: "You need to be in the right place at the right time; it doesn't help to invest too soon, but at the same time you don't want to be too late to embrace new technology."



It's demanding work but Mario is always ready for it. And finally, some praise for TELE-satellite: "TELE-satellite always keeps me up to date with the latest products on the market; this makes my job much easier." That makes us happy of course!

◀ This is what the back of a regular PowerVu receiver looks like as it is installed in the Telepica betting offices.

Square Plan, Johannesburg



Square Plan is one of the larger satellite distribution companies in South Africa.

The President is Bernard Ruberg, a satellite hobbyist himself. He was the one who originally managed to receive ASTRA from Europe with his 4.5-meter antenna – of course in analog. That dish is still in service today but more antennas have been added to

the mix: a 3.7-meter mesh antenna as well as two 2.4-meter dishes. All of these antennas can be found on his property in northern Johannesburg, as can be seen here on our picture. His company has been in existence for 23 years. Suwaibah Dadabhay, his office manager, explained to us: “We sell 65,000 dishes including LNBS every year. On top of that, we sell 10,000 100cm antennas as well as 1000 2.4 and 3.7-meter antennas each year.”

Installers and dealers can acquire all the necessary accessories such as switches, any kind of LNB from single and twin to Quad and Quattro. Square Plan also handles repairs. “Roughly 20% of our products are exported”, explains Suwaibah, much of it to countries such as Angola and Mozambique. Nine employees make up Square Plan, four technicians and five office workers. Square Plan is convinced that business for 2008 will grow!



Suwaibah Dadabhay is Square Plan's Office Manager and organizes everything.



Functionality test for newly arrived LNBs: a technician tests every LNB by connecting it with a signal analyzer and then by attaching it to a dish pointed at 68.5° east.

A satellite DXer's dream: a 4.5-meter full dish and several other "smaller" antennas with diameters of 2.4 and 1.8 meters all with motors and then of course unrestricted visibility in all directions.

Satellite Reception in a Train

In the 03/2008 issue we introduced to you the company SeaTel, a provider of mobile satellite reception systems for ships. In that report we also mentioned that SeaTel was in the process of expanding into a new business area by developing mobile satellite reception systems for trains. And just recently, that milestone was reached: the first high-speed trains with satellite reception are now running on the rails!

It has to do with Thalys. This company operates 26 high-speed trains that travel between the cities of Paris, Brussels, Amsterdam and Cologne. The new SeaTel system has been installed in 15 of these trains, and by the end of the year the remaining trains should also be equipped for Internet reception via satellite.

We asked Philip Haines, responsible for the technical development of this system with the company 21net, what is being offered. He explained, "We are receiving the Internet service from the Belgian broadband provider Telenet in the 12.5 to 12.75 GHz frequency range." It is an intelligent technology that is being installed;



Philip Haines speaking with TELE-satellite. He is the Technical Manager at 21net.

bandwidth distribution between the trains that statistically are underway only 40% of the time."

In the train itself, the passengers access the Internet via WiFi Hotspots. This certainly is a new experience: surfing the Internet in a high-speed Thalys train travelling at 300 kph (188 MPH)!



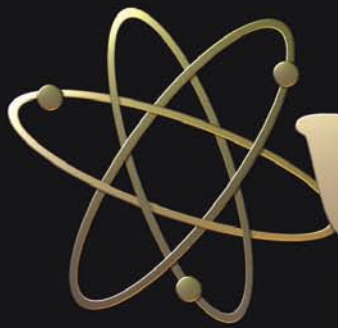
21net technicians at work installing the SeaTel satellite antenna for the mobile reception of HISPASAT. Since the Thalys high-speed trains don't travel much up or down any hills, the antenna itself doesn't require much in the way of elevation adjustments. This results in a lower wind load thanks to the flatter radom.

it was developed jointly with Nokia Siemens Network. This system automatically switches over to GPRS/GSM operation when the train enters a tunnel or when it stops at a station that is covered with a roof.

While the train is underway and as long as there is a clear line-of-sight view to HISPASAT, the goal is to provide "2 MBit/s download speed and 512 KBit/s upload speed for each train", explains Philip Haines, and then continues, "We are using an intelligent



Finished! The radom is placed on top of the antenna. Now the system is not only protected from the weather but also from the enormous 300 kph (188 MPH) wind load.



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Fashion TV

f Reality Show at sea! Fashion TV has been the owner of a ship for a few months now – a vessel that was formerly used as a roll-on roll-off car ferry. The company is planning to use the ship as a party boat and also intends to broadcast a reality show based on the Big Brother concept and starring – what a surprise! – fashion models. This sounds like a really crazy idea and we wanted to have a closer look at those plans. After all, how will broadcast signals be sent from the ship to a transmitter?



f Fashion TV has bought this vessel and converted it to a party and studio ship.



f Oleg is the IT manager on the Fashion TV ship. Here you can see him on the roof next to the 1.2 antenna in the radom which keeps a permanent connection to the Internet. While stationary in Bangkok harbour the antenna is aligned to NSS 6 and uses the Speedcast service.



f View of the broadcast centre: this is where the show is directed. The schedule on the wall in background shows which model is working at what time.



f While the ship is anchored in harbour, the IT team installs dishes and uses them to record the live stream of Fashion TV in order to play back the program while the ship is at sea. Here you can see Jon Clarke, the owner of JSAT.TV in Bangkok, next to the two C band antennas. One is aligned to ASIASAT 3 at 100.5° East and the other one to INTELSAT 7,10 at 68.5° East.

We visited the Fashion TV ship in Bangkok. The vessel was originally equipped and converted in Greece, "but the technology was a huge mess and didn't work at all," according to Jon of JSAT.TV, a Bangkok company specialising in satellite technology. "We had to exchange the entire TV system on the ship and partially converted it to IPTV," he continues.

Bogdan is responsible for the on-board video technology and explains that "almost 500 TVs are connected to the system, and apart from a couple of monitors all are 16:9 flat screens."

So the Fashion TV ship features more TVs than most hotels. All cabins and each meeting and conference area, all stairways, bars and dance floors of the ship are equipped with flat screen TVs. In total, 16 channels are distributed on the S band, all of which are received by a self-tracking Ku band antenna.

"In addition, a total of 24 cameras are installed," explains Oleg, the IT manager on board the Fashion TV ship. "These are used as surveillance cameras on the one hand, but also for the Fashion TV reality show on the other hand." IPTV is being used to transmit the signals from the ship. A 1.2 m antenna maintains an IP connection to the Fashion TV broadcast centre and the same connection is also used to provide Internet access to the guests on board.

A powerful WLAN network capable of broadcasting through thick steel doors and walls inside the ship is available for guests to log onto the Internet. What a relief that the technical equipment required for this system is readily available in the Bangkok "Future Center", one of the huge shopping malls for tech-products. Components you'd be hard pressed to source in Europe are on offer here for very competitive prices.

Thanks to its technicians the Fashion TV ship features innovative satellite technology on board.



f The tech centre is chilled down to 5° Celsius. This is where all channel processing modules (left) for the 16 S band and IPTV channels are installed. To the right you can see the satellite receivers which are connected to each other via Ethernet and can be remotely controlled by PC.



f Bogdan takes care of video technology on the Fashion TV ship. Here he is next to the radom for the 60 cm antenna with automatic tracking.

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SatcoDX Suite Updater Version 0.9

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SatcoDX Suite Updater downloads the full SatcoDX Chart Database once every hour, provided that your PC is connected to the Internet and the license is valid. Additional to the original SatcoDX database in csv format, the Updater also downloads the **SatcoDX-all-transponder.csv** file, which contains all information needed as default settings for satellite receivers. Additionally, the Updater downloads the full chart in **xml** format which can be used for multiple applications.

Installation:

Click SatcoDX Suite Updater in the SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at www.TELE-satellite.com/ads/

DishPointer Version 1.0.0.0

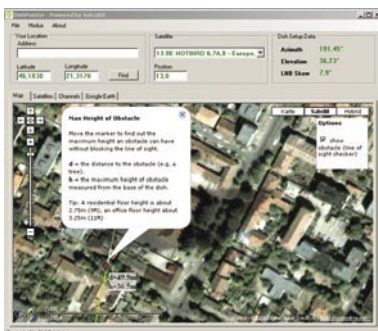
Erect your Dish Virtually and Find out What Satellites and Channels you get at any Location Worldwide

DishPointer brings together IP-Location, Google Maps and SatcoDX Chart. If you are online, it shows your own location by default, choose the satellite you wish to receive, and DishPointer shows all installation details and the satellite channels available. Additional features allow you to check for obstacles in line of sight - all from the comfort of your PC.

Installation:

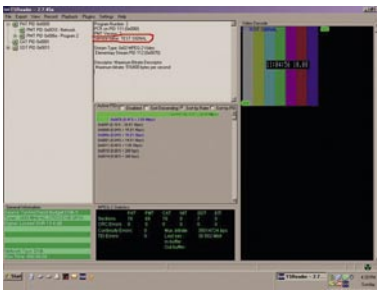
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TSReader Lite Version 2.8.46e

Read the Content of Transport Stream and Analyze Bitrates - Includes Video Displays



TSReaders connects to a wide selection of satellite PC cards and analyzes the transport stream. Each PID can be analyzed for its content and bitrate. Video PIDs are shown with a screenshot, including MPEG4 streams.

Installation:

Click TSReader in the SetUp of SatcoDX Suite

Standard and Professional Versions of TSReader are available at www.tsreader.com

Transponder Finder Version 0.95

Find New Transponders Automatically With Intelligent Search

Transponder Finder requires SkyStar 2 r2.6 card with driver 4.2.8. It loads the sdx chart created by SatcoDX Updater and sorts Symbolrates by occurrence. Transponder Finder searches for most used SRs first, then for frequencies, and only then starts a mechanical search for the SRs and frequencies left.



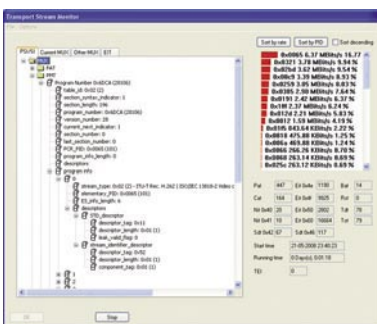
Installation:

Click Transponder Finder in SetUp of SatcoDX Suite

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DVBStreamExplorer Version 3.0.79

Analyze Transport Stream And Demux And Capturing to Disk



DVBStreamExplorer connects to a multitud of satellite PC cards and allows analyzing the stream, giving all informations available in stream including the full teletext data and shows bitrates. Shows services as MHP, AC3 or H.264

Installation:

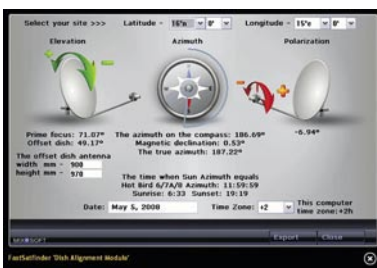
Click DVBStreamExplorer in the SetUp of SatcoDX Suite

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FastSatFinder Version 2.7.5

Alignment Tool with Signal Quality and Level Voice Reading

FasSatFinder offers all the tools needed for setting up a dish: select a satellite from the SatcoDX generated list and FastSatFinder immediately gives signal quality and level even in voice. Easy-to-understand graphics explain how to align dish for maximum.



Installation:

Click FastSatFinder in the SetUp of SatcoDX Suite

Commercial and Professional Users Apply For License at www.fastsatfinder.com

Topfield TAPs – Little Helpers for Your Topfield Receiver

Software developers don't always have it as easy as you might think they do. While one user wants to have very specific functions, the others sit there with puzzled expressions; while the professionals are always looking for more exotic uses for their equipment, the entire system must still remain easy to use for the beginner. This problem was solved decades ago in PC's in that on one side there are the operating system manufacturers and then on the other side you have hundreds of thousands of other smaller companies that have developed supplementary programs based on the basic operating system.

Up until recently, these types of developments were unknown in the DVB-S, DVB-C or DVB-T receiver world, and these boxes from all the different manufacturers come with only the exact features that were foreseen during their design stages.

For the aspiring South Korean manufacturer Topfield, this was simply not good enough. They came up with a plan to actively include the end users of their set top boxes in the developmental process. This was made possible by a unique programming interface, called TAP (Topfield Application Program), that the manufacturer made available at no cost to all users and included precise documentation of the possibilities and the proper approach to take. It didn't take long for dozens of hobbyists to surface that wanted to improve the capabilities of their Topfield receivers. Thanks to the Internet, these small supplemental programs quickly spread to others allowing Topfield receiver owners to choose from a variety of TAPs in order to upgrade their box with a specific useful function. A few of the better TAPs we would like to introduce to you here along with a download link so that you can take these TAPs for a test drive in your receiver.

Unless otherwise mentioned, most of the TAPs are compatible

with Topfield's 5000 and 6000 PVR series and are easily uploaded into the receivers via the USB port or the network interface using the freely-available Altair program (downloadable from www.i-topfield.com). The TAPs are placed into the "Program Files" folder. This folder also contains the "Auto Start" subfolder. Any TAPs placed in this folder will automatically be executed when the receiver is turned on; any others would be activated by accessing the PVR menu and clicking on the << button.

Automove TAP – Increased Organization on the Hard Drive

This particular TAP is geared more towards our readers who are TV series lovers. It will take multiple recordings with the same title and move them into a pre-defined folder. Every recording from your favorite TV series will land not in the regular folder but nicely sorted in its own folder.

Download: <http://tools.hepke.com/component/>

Filer TAP – A Wastebasket for Your Topfield

Who isn't familiar with this problem: when cleaning out your hard drive, one recording after the other is deleted only to find out that you still hadn't watched

the conclusion of your favorite TV series. For the normal Topfield user, this would be an aggravating experience. But if you have the Filer TAP installed, there is no longer any need to worry. Much like a typical PC, the Filer TAP stores all deleted recordings in a virtual trash bin from which they can easily be restored if needed.

This TAP also provides some extras such as an expansion of the features in the receiver's PVR list: you can mark programs that have already been viewed, the font size can be adjusted and more sorting capabilities have been added.

Download: <http://www.elle4u.de/taps/filer>

HDD Info TAP – Noise Suppression for Your Topfield Hard Drive

The hard drive is humming nicely in the background while you strain to listen to what they are saying in a quiet scene on the TV. For hard drive manufacturers, this has been a reason for some time already to incorporate some form of acoustic management although in most cases this option is usually not activated by default. In order to activate it, the hard drive would have to be removed from the receiver and installed in a PC; not exactly an easy procedure. The HDD TAP was written especially for this reason. It not only provides information on the installed receiver's hard drive, but in most cases can also let you activate many acoustic management settings directly through the receiver.

Download: <http://www.topfield-europe.com/de/09-taps/link.php?url=28>

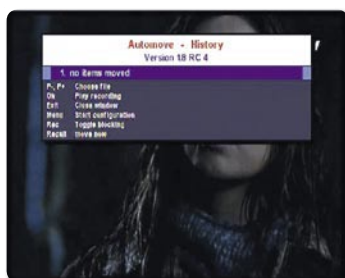
ImproBox – Many Practical Features for the Info Bar

ImproBox provides a replacement for the standard Info Box and offers a number of additional features. ImproBox provides three different backgrounds in four different colors and in addition to information on the current program also shows the user information on the next program. It is also possible to display all the upcoming programs in the Info Box, to directly display an upcoming primetime program, to look for repeats and to set your timer (extra time can be added to the beginning and end of a recording).

The live picture can be automatically reduced in size when the Info Box appears so that no portion of the picture is hidden behind the Info Box. ImproBox also provides a variety of Jump-to functions that let you, for example, quickly work your way through the recording menu or directly enter in your location in just minutes.

The Quick Start lets you restart the previously viewed recording with just the push of a button. Alternatively, a list displaying recently viewed recordings can be called up from which they can be played back again if desired. While a program is being recorded, ImproBox can display it in a preview window and, if desired, it can be manually stopped. This also holds true for the playback of an existing recording.

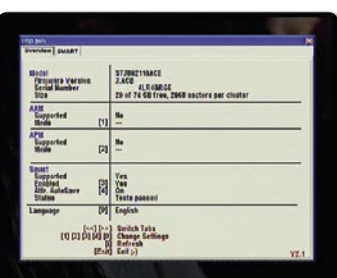
Important: ImproBox is shareware and can only be used for free for a limited time after which the user needs to obtain a license



Automove TAP



Filer TAP



HDD Info TAP



EPG from iTiNa



ImproBox with its many settings capabilities

from the manufacturer!

Download:

http://www.improbox.de/index_en.html

Masterpiece Display – Gets the Most Out of the VDF Display

This little TAP expands the Topfield 5000's VDF display by providing more useful data, such as the actual time, and also changes the presentation of longer data names during playback (from this point on it would only be scrolled a single time). In our tests we were unable to get this TAP to work with Topfield's 6000 series.

Download:

<http://www.topfield.cc/files/Firebird/MPDisplay.zip>

Jag's EPG – A Must-Have

If you are not satisfied with Topfield's standard EPG, you could always give Jag's EPG a try. One thing is for sure: after using Jag's EPG, it is highly unlikely that you will miss Topfield's normal EPG. With Jag's EPG, you can, for example, download the EPG data for the first 100 channels automatically on a daily basis (e.g. overnight) so that you can view them anytime you want without any download delays, even if you're not on your favorite channel. In addition to the countless ways that this data can be displayed, this TAP also has a variety of search and sort functions, lets you directly enter timer settings with the ability to add extra time before and after the programs start time, etc. The entire range of features provided by this TAP fills a 38-page full-size user manual. In addition to the original TAP, other programmers have developed accessory tools such as a program to display timer settings on a PC. This TAP is freeware!

Download:

<http://www.topfield-europe.com/forum/forumdisplay.php?f=58>

Bookmark TAP – An Absolute Favorite

At first glance, the Bookmark TAP seems rather small and



unremarkable but it provides the receiver with an extremely practical function. Every time you push the Stop button, a bookmark is placed at the exact point where the playback of a recording was stopped so that later you can pick up watching your program exactly where you left off.

Download:

<http://www.mynetcologne.de/~nc-lueckth2/>

Movie Progress TAP – When is This Movie Over?

This useful TAP displays the remaining time of a program in a graphic located just above the Info bar.

Download:

http://www.boeckle-net.de/topfield_taps.htm

3PG – Expanded EPG

The 3PG TAP also deserves mention although it offers functions similar to the Jag's EPG. Our suggestion: try them both out and decide for yourself which TAP you want.

Download:

<http://www.topfield-europe.com/forum/forumdisplay.php?f=67>

iTiNa – The Third is the Charm

Developing an EPG TAP that includes everything that thus far has been missing in other TAPs, was the idea of two Topfield enthusiasts who, through some painstaking work, have created iTiNa (intelligent Timer and Navigation). For one thing, it comes with a completely new EPG and Info bar display, and for another, it also includes a number of practical features such as audio reproduction for the blind, overlapping timers on the same tuner, automatic scanning in the EPG data along with direct timer programming, an Auto-move function, plus much more.

Download:

<http://www.itina.de>

AutoZapper – A TAP for TV Junkies

This TAP was developed for all



Various screenshots of Jag's EPG

those chronic channel surfers out there with sore thumbs. It will channel surf automatically with a user-settable delay between all the channels in the channel list.

Download:

http://www.boeckle-net.de/topfield_taps.htm

PIP Switch – Deluxe PIP function

The PIP Switch TAP expands the standard PIP function with a few new features. You can now view split-screen images or set up overlapping windows. The result is impressive and looks exceptionally professional.

Download:

<http://www.mynetcologne.de/~nc-lueckth2/>

Backup TAP – First Aid for Your Topfield

If everything should go wrong one day and your channel list, settings and timer entries should all disappear, this TAP would help as long as a backup had already been made. It would let you bring the receiver back to its original state.

Download:

http://tonyspage.abock.de/TAPS/backup_settings3.2.zip

Topfield MP3 Jukebox

Every Topfield PVR receiver has the capability to playback MP3 files but this function was not given much attention by the manufacturer. The MP3 Jukebox TAP comes into play here and provides all of the functions you'd expect to find in a decent Jukebox.

Note: At this point, this TAP only works with the Topfield 5000 series and not with the 6000 series!

Download:

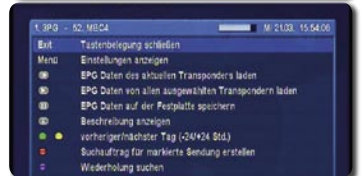
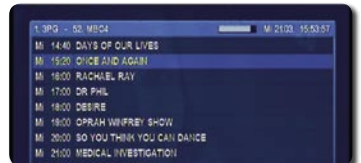
<http://www.netgio.com>

These are only a few of the TAPS that we had room to write about and that we felt were worth mentioning. On the web sites listed below you will find many more small as well as large helpers for your Topfield receiver:

<http://www.topfield.cc>



Info Bar with Movie Progress display



3PG TAP's easy-to-read EPG overview



AutoZapper TAP – the next channel will appear shortly



Split-screen view thanks to the PIP Switch TAP



Backup TAP



Topfield MP3 Jukebox

First Steps in the Ka Band Reception Experiments In the 20 GHz Range

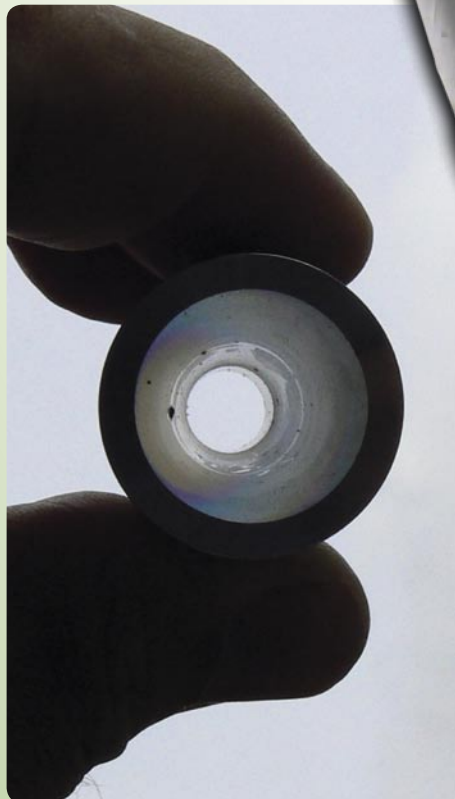
TELE-satellite has reported on the Ka band several times already, the latest time as recently as in issue 09/2007. The Ka band extends from 18.2 to 22.2 GHz and was split by LNB manufacturers into different segments. "A" denotes the first segment from 18.2 to 19.2 GHz, "B" stands for the second segment from 19.2 to 20.2 GHz and so on. Reducing each segment to a 1 GHz bandwidth makes sure conventional satellite receivers are capable of receiving signals that are transmitted on Ka band transponders when converted into intermediate frequencies between 0.95 and 1.95 GHz.

With these facts in mind it was about time someone tried out Ka band reception after all. Ron Eberson in Amsterdam did just that and we visited him to find out how he went about with his mission and what result he was able to achieve. This is how his story begins: "First of all I obtained a Ka band LNB directly from the manufacturer." The reason for this direct approach is that Ka band LNBs are not (yet) available from high street satellite shops. While Ka



Ron Eberson in the garden of his town house in northern Amsterdam. He shows a Ka band LNB with a purpose-built feed. Ron Eberson is an experienced antenna professional: for many years he had owned a company producing amateur radio antennas. In 2000 he sold his business and since then he has been able to invest most of his time in satellite reception.

Ron Eberson had a feed made out of an aluminium cast. "I could have done it myself with the help of a turning lathe," he says adding that "everybody can do that. You can buy a turning lathe for 300 euros these days." The feed output measures 28.8 mm and is fitted to the antenna, the feed's input fits the LNB output with 10.8 mm.



View into the feed horn: the conical shape of the feed is visible.



The feed fits perfectly into the existing reflector antenna and is inserted into the existing funnel feed.



SONICVIEW



SV-360 Premier

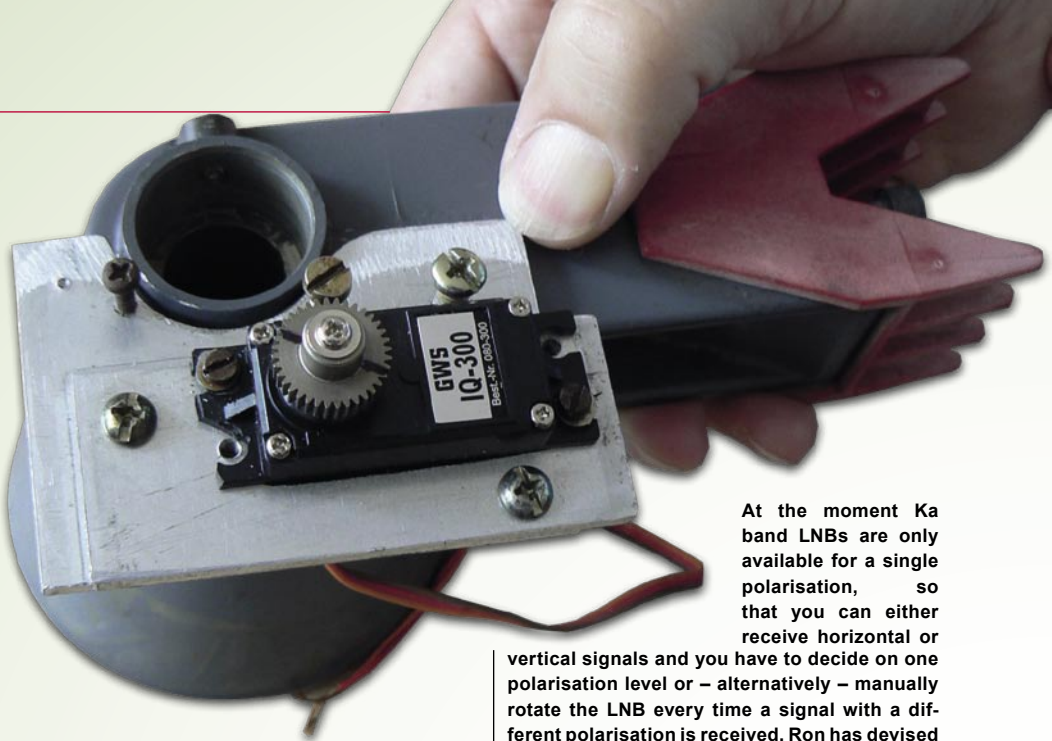


SV-360 Elite



SV-HD8000

band technology is already being used in professional applications, these systems always come in complete packages so that individual components are hard to come by. In particular, providers of Internet-via-satellite frequently rely on the Ka band as it offers extremely good bandwidths and the capacities are underused at the moment. North American Internet service provider Wildblue is one of the pioneers of Ka band use. Once Ron Eberson was able to call several Ka band LNBS (one for each frequency range or segment) his own, he encountered the next obstacle. "Due to the higher frequency range the waveguide is narrower than for other bands, which means that regular Ku band feeds simply won't fit." Not a problem for Ron Eberson, as he quickly made up his mind to build his own customised feed. "Of course I had to calculate the correct measurement first," Ron explains, but this turned out to be quite straightforward thanks to a software application called PCAAD 5.0 (<http://www.antennadesignassociates.com/pcaad5.htm>). "All you do is enter some basic



At the moment Ka band LNBS are only available for a single polarisation, so that you can either receive horizontal or vertical signals and you have to decide on one polarisation level or – alternatively – manually rotate the LNB every time a signal with a different polarisation is received. Ron has devised something different altogether. "For about 10 euros I'm building a device that rotates the LNB as needed," Ron explains. "I take a motor with a cogwheel, like the ones that are used for model building, and a so-called servo tester, which are also quite common for model building when the remote control is not in use."

own Internet forum (www.gregorian-users.com and <http://96592.forums.motigo.com>) to get in touch with other Ka band enthusiasts. "At the moment there are three members on the forum, but I do hope this



parameters and the tool takes care of all the rest."

So then the actual feed had to be built. "Actually, I could have done it myself with the help of a turning lathe," Ron continues, but as he has a friend working at a professional metal processing company he had the feed made from an aluminium cast based on the result of the software tool. The next step was to decide which receiver could be used for Ka band reception. According to Ron "any receiver will do, even though it only makes sense to use a box which allows entering any given IF manually." That's why Ron went for a Fortecstar receiver because "this box correctly displays the reception frequency on screen."

Ever since, Ron has been spending enormous amounts of time scanning the Ka band satellites. Albeit, his moments of success are still rare. "I'm really stuck without knowing the appropriate symbol rates," Ron tells us with disillusionment. A situation like this is the greatest challenge for any genuine DXer and even Ron admits that "this is part of the fun. Where's the challenge when all you need to do is press a button?". In the meantime he set up his



The LNB rotator is still in the making, but this is how it will work in the end: the motor with the cogwheel is mounted on the feed, and the LNB is mounted in the feed with a cogwheel ring and a flange so that it can rotate. With this mechanism Ron will be able to rotate the LNB from horizontal to vertical with his remote control.

number increases so that we can exchange our thoughts and ideas regarding the Ka band," hopes Ron Eberson, a true satellite pioneer.



The existing funnel feed for the Ku band. The Ka band feed is put into the opening that usually takes in the Ku band LNB. The funnel feed increases reception efficiency.



The moment of truth has arrived: Ron enters the local frequency of 20.250 GHz in his receiver and thus makes the receiver display the correct reception frequency without conversion. As the Ka band LNB is not divided into high and low bands and the polarisation cannot be changed, all these settings are turned OFF. However, due to lacking symbol rate information Ron has not been able to receive any Ka band signals yet.

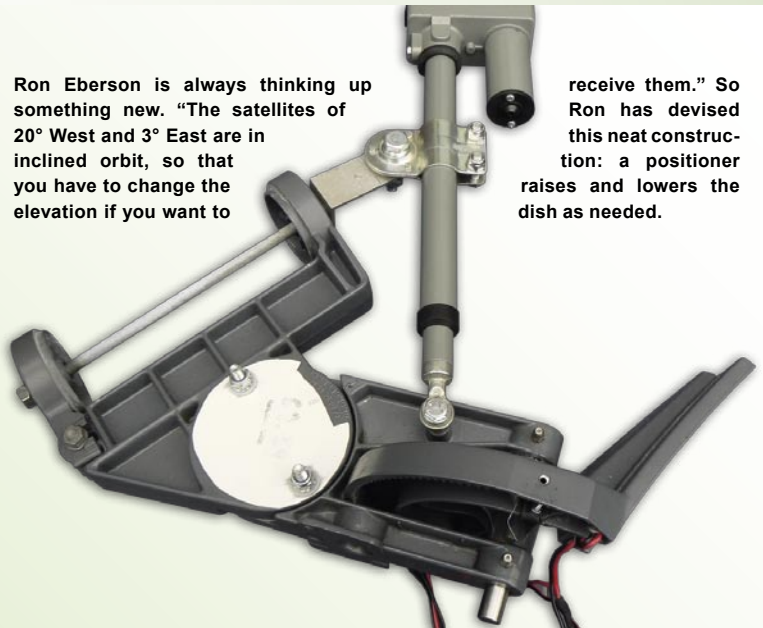


Ron has installed a 90 cm reflector antenna on the roof of his town house.

Ron Ebersson's Handiwork

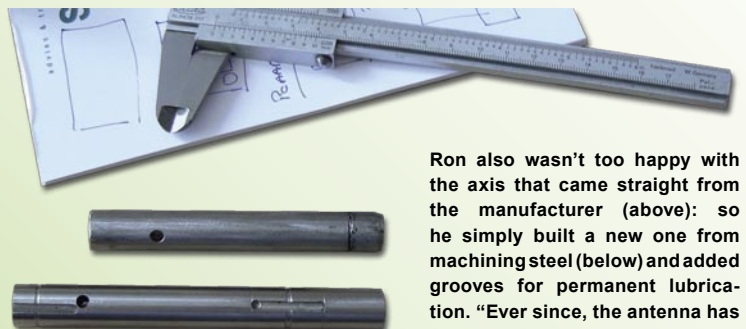


This is the small 55 cm reflector antenna Ron uses for his Ka band experiments. Nothing extraordinary at first sight, but if you have a closer look you'll notice that the motor is mounted at the wrong place: it does not sit below the rotating axis but above it. And come to think of it, we're not talking about a regular motor here either, but a DiSEqC motor. Ron sheds some light: "A conventional motor requires a 36 V positioner and can only move the dish 50° in each direction, which wasn't good enough for me." So Ron replaced the axis with a purpose-built axis and put a DiSEqC motor on top of it. "This has many advantages," Ron smiles, "because the dish can be turned almost 90° in each direction now, the motor axis is better protected from the elements and I can rotate the antenna using DiSEqC commands."



Ron Ebersson is always thinking up something new. "The satellites of 20° West and 3° East are in inclined orbit, so that you have to change the elevation if you want to

receive them." So Ron has devised this neat construction: a positioner raises and lowers the dish as needed.



Ron also wasn't too happy with the axis that came straight from the manufacturer (above): so he simply built a new one from machining steel (below) and added grooves for permanent lubrication. "Ever since, the antenna has worked flawlessly. Once a year I add some fat for lubrication and the thing runs as smoothly as on day one." In addition he added a thread in the centre. "This way I can stabilise the antenna if the motor is removed, otherwise the dish would judder like a sail in the wind."

SatcoDX

India

Alexander Wiese



Recently, a new SatcoDX AutoScan station was set up in India. Now, SatcoDX stations automatically detect all satellite channels transmitted over India, using scan software that was developed in-house at SatcoDX. With the currently two stations – one of which is located in Thiruvananthapuram in southern India, the other one on New Delhi to cover the North – SatcoDX is now able to analyse almost all beams that can be received in India.

The Thiruvananthapuram AutoScan station has been operational for two years now and is managed by Satheesan, a very committed satellite DXer with many years of experience in the field of satellite reception. "I set up my first dish twelve years ago," Satheesan proudly tells us.

Since then his antenna farm



has grown steadily, a development that was helped by the fact that he has more than enough free space for this. Meanwhile he receives all satellites available at his location.

For SatcoDX he runs six PCs, each of which scans four beams, making it a total of 24 beams which are being scanned by Satheesan 24/7. This way new channels are detected

almost immediately and their parameters are entered automatically into the SatcoDX frequency charts.

For several months now the Thiruvananthapuram SatcoDX AutoScan station has been complemented by an additional station in New Delhi which is operated by computer engineer Siddharth. He reveals that "I have some ten years of experi-

ence of feed hunting and up to today I was able to receive virtually all satellites positioned in the orbit above India."

As he lives right in New Delhi, space had become a major drawback and at the moment Siddharth is in the preparation stages for relocating to a place outside New Delhi so that he can keep receiving all signals at his new location in Moradabad.

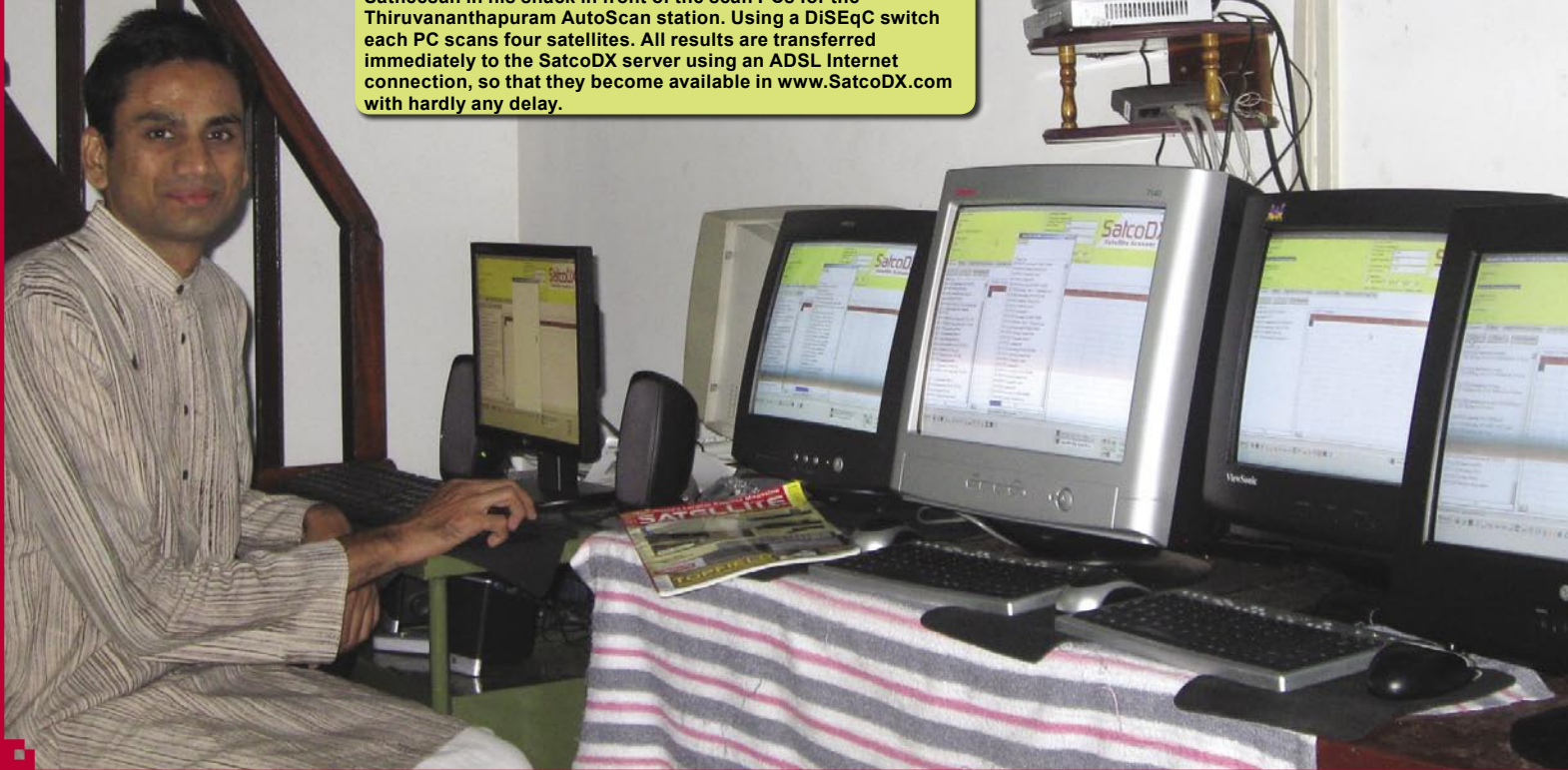
There he will have more space to set up additional dishes for receiving northern signals as well.

Once the new station is up and running SatcoDX will be able to receive and analyse virtually all beams available in India and thus will offer up-to-date satellite charts free of charge to all and everyone at www.SatcoDX.com

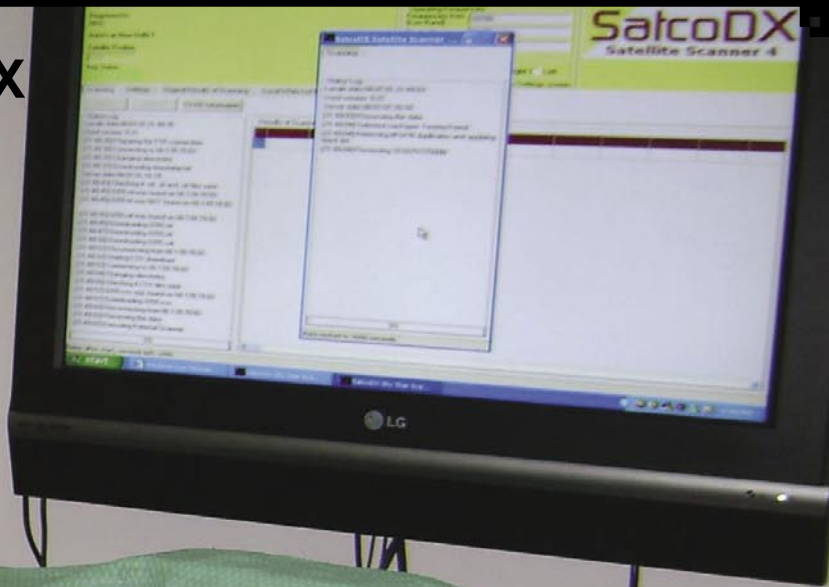


Thiruvananthapuram SatcoDX AutoScan station (Federal State of Kerala) *Satheesan Puzhakkara*

Satheesan in his shack in front of the scan PCs for the Thiruvananthapuram AutoScan station. Using a DISEqC switch each PC scans four satellites. All results are transferred immediately to the SatcoDX server using an ADSL Internet connection, so that they become available in www.SatcoDX.com with hardly any delay.



New Delhi SatcoDX AutoScan station *Siddharth Gautam*

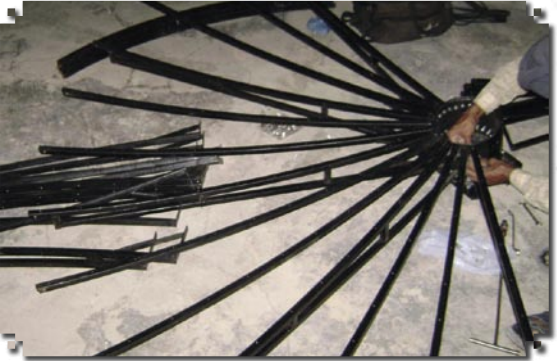
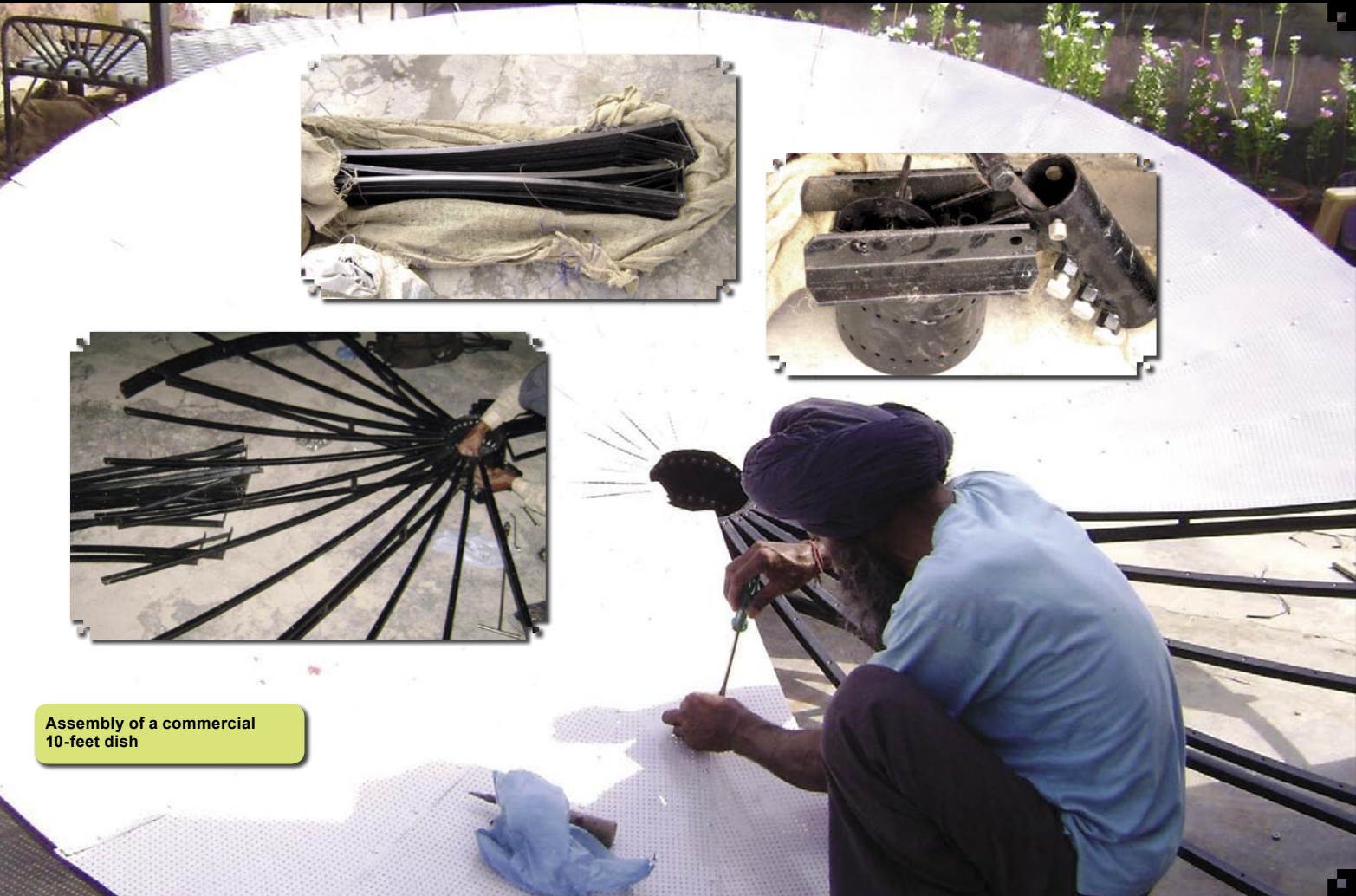


Siddharth in his shack in front of the PC at New Delhi SatcoDX AutoScan station





This 10-foot dish is aligned towards BADR at 26° East. It was assembled on site and was designed by a local craftsman.



Assembly of a commercial 10-foot dish



Close view of the 12-foot dish: with a little bit of improvisation it is possible to receive eight beams, namely (from above): APSTAR 6 at 134E, VINASAT 1 at 132E, JCSAT 3 at 128E, ASIASAT 4 at 122E, CHINASAT 6B at 115.E (this LNB is the one that is in focus), NSS 11 at 108 in the Ku-Band, ASIASAT 3S at 105.5E und ASIASAT 2 at 100.5E



One bag of cement is mixed up on the roof...



...and the mast foundation is erected using some 200 bricks



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AZURE + SHINE





Satheesan's antenna farm for the Thiruvananthapuram SatcoDX AutoScan station in southern India



The satellite installer mounts the LNB on the feed rodings...



... and takes care of fine-tuning once the dish is set up.



Done! The antenna is now perfectly aligned to receive EUROIRD 2 signals at 25.5E.

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Edited by
Branislav Pekic

EUROPE

EUROPE

CHE INSTALLS IDIRECT HUB, LAUNCHES DVB-S2

Cobbett-Hill Earth Station (CHE) has installed an iDirect Series 15000 Universal Satellite Hub and acquired multiple iNFINITI 5000 Series Satellite Routers to launch a hosting service for VNOs. With the debut of its new offering, CHE has signed its first VNO customer, AGC Marine Telecom, which will provide its mega yacht and cruise line customers with high-speed broadband connectivity. In addition to its VNO operations, CHE will be launching an IP broadband service using iDirect's next-generation Evolution DVB-S2 system with Adaptive Coding and Modulation (ACM). The investment enables CHE to develop a multiple-satellite DVB-S2 network for operators with markets in Africa and the Middle East, where space segment remains highly limited.

OMNIGLOBE BECOMES RESELLER OF INET VU MOBILE ANTENNA

Communications equipment supplier OmniGlobe Networks EMEA has signed a long-term reseller agreement with C-COM Satellite Systems, to become an authorised reseller of its iNetVu mobile satellite antennas. OmniGlobe Networks will be promoting and selling antenna communication systems to its well established customer base, spanning more than 70 countries. OmniGlobe Networks will offer the iNetVu antenna systems which are fully compatible with the world's leading satellite-based IP technologies and automatically connects to the internet at broadband speeds. The agreement with C-COM Satellite System also enables the company to enter the growing mobile VSAT and DSNM markets.

BULGARIA

TRANSAT TO PROVIDE VSAT CONNECTIVITY

Satellite communications company Transat has signed a co-operation agreement with Microsoft Bulgaria to provide software service (SaaS) applications from the last quarter of 2008. The VSAT connectivity offered by Transat will enable satellite access to SaaS applications for customers in remote areas. The idea is to market a package of broadband Internet and software solutions.

THE NETHERLANDS

THRANE & THRANE INTRODUCE VSAT SOLUTION AND NETWORK

Satellite equipment manufacturer Thrane & Thrane will introduce a maritime VSAT solution and network in September 2008. Thrane & Thrane will offer the new SAILOR 900 VSAT and various fixed broadband data packages at attractive flat rates plus additional voice channels, addressing the professional maritime market. With fixed standard data and voice packages of up to 1024/256 kbps and additional voice channels, the SAILOR 900 VSAT solution allows ship operators to be online at all times with the benefit of cutting communication costs while sailing inside the SAILOR 900 VSAT coverage area.

TURKEY

VIASAT COMPLETES ISTANBUL VSAT NETWORK

ViaSat has completed the rollout of its LinkStarS2 satellite networking system to ELIOP S.A. (Spain) for data collection, monitoring, and control of drinking and waste water operations for the Istanbul Water and Sewerage Administration General Directorate (ISKI). ELIOP has integrated its own "SHERPA" supervisory control and data acquisition (SCADA) technology with LinkStar terminals to gather information on water reservoir levels, pipeline integrity, water quality, and drinking and waste water distribution management for a community of 15 million customers. ViaSat supplied the complete satellite communication network including the antennas, satellite transmission electronics, LinkStar hub, and 300 network terminals.

NORTH AMERICA

GLENTEL TO PRESENT NEW VSAT TECHNOLOGY

Wireless communications solutions provider Glentel Inc has showcased a new generation of VSAT-based satellite services. The new VSAT system was developed to meet the needs of supervisory control and data acquisition (SCADA) users who require more robust and reliable remote infrastructure. Glentel's new system offers virtually guaranteed data transfer at a cost comparable to traditional radio links. From its state-of-the-art hub, located in Edmonton, Glentel's VSAT services can configure, monitor and control thousands of remote sites across North America. Each compact terminal including a satellite modem, IP router, TCP optimization over satellite, 3DES/AES encryption and QoS/prioritization.

UNITED STATES

BROADPOINT AWARDED SEACOR MARINE CONTRACT

Telecommunications and network solutions company Broadpoint has been awarded an additional contract from SEACOR Marine, a leading provider of support services to oil and gas operators. The contract covers connectivity services for five new vessels. SEACOR will be able to provide its crews and passengers with more reliable and convenient voice and data services, including wireless Internet. In addition, on the SEACOR Cheetah, the ability to transmit video over satellite will act as a safety measure, enabling experts on shore to view vessel conditions in real-time.

US MONOLITHICS LAUNCHES NEW SATELLITE PRODUCTS

US Monolithics has launched a line of commercial C- and Ku-band satellite transmit and receive products. New products include C- and Ku-Band low-noise block down converters (LNBs) and block up converters (BUCs) specifically designed for (VSAT) satellite communication terminals. The product line includes a series of high-stability free running DRO and PLL LNBs, Ku-band BUCs from 1W to 150W, and C-band BUCs from 1 to 300W.

SATELLITE INDUSTRY OPPOSES KU-BAND TERRESTRIAL SERVICE

The global satellite communications sector has asked the U.S. Federal Communications Commission (FCC) not to allow terrestrial

fixed services to operate in the 14.0-14.5 GHz band due to potential interference to fixed and mobile satellite-based services provided using the band. The Global VSAT Forum (GVF) and European Satellite Operators Association (ESOA) called upon the FCC to dismiss a Petition for Rulemaking submitted by the Utilities Telecom Council and Winchester Cator to share Ku-band spectrum. The GVF and ESOA claim that the proposals by the Telecom Council and Winchester would not protect present and future fixed satellite service operations from harmful interference and likely would result in harmful interference even at modest deployment levels.

ACCELENET TO IMPROVE MILITARY OPERATIONS IN IRAQ

IAP Worldwide Services has selected Intelligent Compression Technologies' AcceleNet WAN optimization and application acceleration client software to speed the application experience of its staff in Iraq. The purchase represents the first implementation of several projects using limited bandwidth networks and long-range satellite links by IAP, a provider of support services to the U.S. Department of Defense and other federal, state, and foreign governments. The AcceleNet client is designed specifically to improve performance of public and secure web applications, file shares, and email over networks with limited bandwidth, latency and high packet loss, including 3G wireless, DSL, and satellite.

NORSAT LAUNCHES 12 NEW LANGUAGE VERSIONS

Satellite solutions provider Norsat International has released its advanced satellite acquisition and terminal control software, LinkControl, in 12 new languages. Norsat LinkControl is now available in a total of 15 different languages: Arabic, Bahasa, Chinese (Simplified and Traditional), Dutch, English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Spanish and Turkish. Norsat LinkControl software allows users to operate all aspects of a portable VSAT terminal from a single console. LinkControl is also compatible with modems from Radyne, iDirect and Paradise and transmitters from Xicom.

VSAT RECEIVES USD 52 MILLION ORDER

ViaSat has won a delivery order valued at approximately USD 52 million for Multifunctional Information Distribution System terminals from The Space and Naval Warfare Systems Command (SPAWAR), San Diego. By gathering information into a digital view of the battlefield, MIDS provides greater situational awareness in combat for the U.S. Navy, Air Force, Army, Marine Corps, and for U.S. defense partners. The secure, high capacity, jam resistant wireless (non-satellite) system connects users with both digital data and voice communications. Delivery of Lot 9 units is expected to begin in May of next year and continue through the first quarter of ViaSat's fiscal year 2011.

SEAMOBILE WINTS GSA CONTRACT

SeaMobile Enterprises' MTN Satellite Services division has won a contract from the General Services Administration (GSA) to provide its full suite of satellite communication services to government agencies, including the U.S. military, via its GSA schedule. GSA is an independent agency of the United States government dedicated to help manage and support the basic functions of federal agencies. MTN Satellite Services offers "Always On - Always Available" worldwide connectivity through its integrated

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global C-Band and multi-regional Ku-Band VSAT networks. Its advanced IP overMPLS backbone is approved for use with U.S. government encryption technologies, and provides a secure and robust integrated global network.

TCS AWARDED USD 246 MILLION U.S. ARMY CONTRACT

Wireless communications provider TeleCommunication Systems (TCS) has been awarded an indefinite delivery/indefinite quantity delivery order with a potential value of USD 246 million over the next 39 months. The delivery order is with the U.S. Army Communications-Electronics Life Cycle Management Command (CECOM LCMC) to support its need for rapidly deployable and highly secure satellite communication access to broadband satellite services.

SEAMOBILE TO PROVIDE IPTV PLATFORM FOR CRUISE SHIPS

Wave Entertainment Network, a division of SeaMobile Enterprises, has presented its IPTV television platform available to the cruise line industry worldwide. The continually expanding line-up includes linear and on-demand programming services from major media companies such as A&E Networks, CBS, Comcast, Cox Communications, Discovery Networks, Fox Cable, Fox News, NBC Universal, Twentieth Century Fox Studios and Viacom. In addition, cruise line guests who are sailing in the Mediterranean are able to view television programs in a variety of different languages from the top European providers, including Euronews, BBC News, BBC Prime, France 24, TV5 Monde, RAI International, RAI News 24, DW TV, ARD, and TVE International.

LATIN AMERICA

BRAZIL

SHIRON SATELLITE WINS VSAT CONTRACT

Shiron Satellite Communication's Brazil office has closed a commercial agreement with Sanmina-SCI to produce state-of-the-art, broadband satellite communication VSATs locally in Hortolândia (SP), district of Campinas. Shiron will be the first and only company to have local production of VSATs in Brazil. Currently, more than 20,000 VSATs are imported every year into Brazil, and the country's installed base exceeds 100,000 VSATs. With Coldecon and Anditel/IPC in Colombia, Shiron has deployed over 7,000 VSAT terminals in 2007, and is deploying, for the first time in Latin America, 3,000 iRG-S2/ACM VSATs with 16APSK ACM (Adaptive Code Modulation) outbound and an 8PSK with FEC 8/9, the most efficient VSAT system deployed.

ASIA & PACIFIC

BANGLADESH

FIRST PRIVATE INTERNET GATEWAY OPERATIONAL

The first private International Internet Gateway (IIG) started operating in Bangladesh in June. Two POPs have been installed in Dhaka and Chittagong in the first phase of operations, to be expanded later. Mango Teleservices, a unit of Dhaka-based Communication Solution Limited, set up the IIG in partnership with multinational corporation Cisco Systems, Inc. The

IIG operator will give internet service providers and businesses high speed, high bandwidth international connections through its network. Mango's IIG will be connected with the existing submarine cable as its main link and with the Satellite Earth Station/VSAT as its back up until another submarine cable is available.

FIJI

TFL PROVIDES VSAT HUB FOR VANUATU COMPANY

Vanuatu's telecom company has been assisted by the Telecom Fiji Limited (TFL) in providing telecommunication services to its remote customers through its VSAT hub based in Yaqara. Like Fiji, Vanuatu has customers in remote lying areas whose only means of access to telecommunication services is via satellite. Two years ago TFL made a substantial investment in its upgrading of the VSAT service through its partnership with Gilat using their Sky Edge technology.

INDIA

RAILWAYS TO GET VSAT COMMUNICATION HUB

Indian Railways will soon have its own state-of-the-art communication network as it has signed a contract with Hughes to set up its first dedicated VSAT communication hub. The VSAT hub would allow the Indian Railways to not only offer a host of mission critical applications but also provide Internet access on running trains. The commissioning of the dedicated VSAT hub will allow Indian Railways to connect 1,000 locations across 19 States and give voice and data connectivity for their services at remotely

located stations where fixed and mobile network of telecom operators have not reached so far.

TATANET PARTNERS WITH VT IDIRECT AND STELECTRONICS

Satellite-based IP communications technology supplier VT iDirect together with its sister company, ST Electronics (Satcom & Sensor Systems) has announced a strategic partnership with Tatanet Services, an Indian VSAT service provider. Tatanet has implemented an iDirect Series 15000 Universal Hub in Mumbai, which will enable it to expand its business across multiple developing markets that require specialized service capabilities. Through iDirect's Intelligent Platform, Tatanet can provide satellite VPN, VoIP and Internet broadband services to major enterprises and organizations, supporting remote communications, business continuity networks and a wide array of critical IP applications.

ISRAEL

GILAT SHAREHOLDERS APPROVE MERGER WITH GALACTIC

The shareholders of Gilat Satellite Networks approved the Agreement and Plan Merger, dating back to March 31, among Gilat, Galactic Holdings and Galactic Acquisition Company, pursuant to which Galactic Acquisition Company will be merged into Gilat. Gilat will continue as the surviving entity and will become a wholly-owned subsidiary of Galactic Holdings. Gilat Satellite Networks is a provider of IP based digital satellite communication and networking products and services. The Company designs, produces and markets VSATs and related VSAT network equipment.

JAPAN

BB SAT TO PROVIDE SATELLITE BROADBAND SERVICE

Beginning October 1, BB SAT will demonstrate two-way consumer satellite broadband service in Japan. The demonstration service is aimed at showing how broadband satellite service can solve Japan's "digital divide" problem of several million households, and how this service can be a significant part of the government's strategy to provide broadband service to all citizens. Two towns in the Japanese "digital divide", Shobara in Hiroshima prefecture and Tsuru in Yamanashi prefecture, have been selected as sites for this initial demonstration service. The demonstration service will use the ViaSat Surf-Beam system already in widespread use in the U.S. and elsewhere. Satellite capacity is being provided by Space Communications Corporation using their Superbird B2 spacecraft.

MALAYSIA

TELEKOM MALAYSIA AND NUMIX TO LAUNCH BROADBAND SERVICE

The partnership venture of Telekom Malaysia Berhad (TM) and Numix Engineering has contracted 5 MHz of transmission capacity on the NSS-6 satellite at 95 degrees East to launch two-way Ku-band broadband services targeting Malaysia and other countries in South East Asia. TM is Malaysia's leading next generation communications and broadband provider. Numix Engineering provides local expertise involved in the supply and system integration of high technology products.

SINGAPORE

SINGTEL EXTENDS MARITIME SOLUTIONS VIA SES NEW SKIES

Singapore Telecommunications is extending its suite of maritime satellite solutions globally by contracting capacity on SES New Skies' NSS-7, NSS-703 and NSS-5 satellites. Terms of the three-year deal for up to 5MHz of capacity over the three satellites remain confidential. The SES New Skies satellites will also support demand for Singapore Telecommunications's (SingTel) OfficeAtSea@SingTel suite of Maritime VSAT solutions, which enable vessels to communicate seamlessly and cost-effectively with their headquarters on land. Solutions include 'always-on' unlimited broadband internet access, email, low-cost VoIP calls, GSM onboard and ship surveillance.

AFRICA

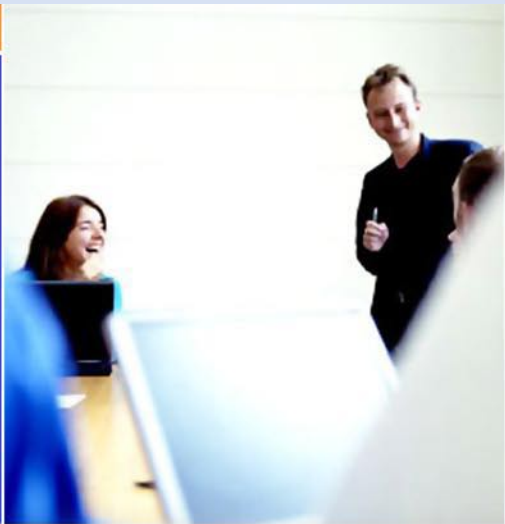
KENYA

KENYA TO GET NEW VSAT NETWORK

Kenyan businesses are to get a new VSAT network to deliver high quality voice, broadband data and video services. The new network is expected to be used primarily by banks and financial services companies to provide private networking services, including interactive data, broadband Internet access, VoIP and client-server banking applications to their customers throughout Kenya. The network, comprising SkyEdge II IP VSATs and a SkyEdge II hub which supports multiple satellites, will cover sites in various parts of Kenya. The Kenyan network



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will be commissioned and operated by Alldean Satellite Networks, a Kenyan satellite service provider offering both domestic and cross-border connectivity to virtually anywhere in Africa.

NIGERIA

EMPERION WEST AFRICA INTRODUCES VIDEO CONFERENCING

In its effort to help corporate institutions, multi-nationals and small enterprises as well as individuals reduce the rate of travelling, thereby saving cost and time, Emperion West Africa, one of Nigeria VSAT providers has pioneered the introduction of Videoconferencing on demand. Managing director, Sandeep Jayaswal, said that kiosks would be erected throughout the country where anyone could walk in at a pre-planned period and put through a videoconference call. Emperion designs, deploys, operates and maintains broadband IP communication solutions and services based on digital satellite (VSAT) and fixed wireless access (FWA) networks.

GALAXY BACKBONE PROMISES LOWER INTERNET COSTS

Telecommunication service provider Galaxy Backbone has vowed to reduce internet costs by deploying latest technology in the country and deploy ICT infrastructure in all 774 local government areas. According to director general, Gerald Ilukwe, the main goal of Galaxy Backbone was to build and operate a single nationwide IT infrastructure platform, to provide network services to all Federal Government ministries, departments and agencies (MDAs), and equally provide connectivity and digital access that would enable relevant solutions for governance, education to rural areas and other underserved communities in Nigeria. He added that the network operation centre located at Ahmadu Bello way in Abuja, is "largest and most sophisticated VSAT network in West Africa, if not in Africa".

NIGERIAN BANK ACQUIRES PRIVATE TELECOM OPERATOR

According to the "Business Day" newspaper, an unnamed bank is believed to have acquired private operator Prest Cable and Satellite TV Systems (Prestel). Prestel currently operates a CDMA2000 1x network covering eleven of the country's 36 states of the federation. It also has a licence for commercial VSAT installation to provide broadband services and data communication for government sectors, private organisations, banking and financial institutions. Business Day states that Prestel strengthened its position in the Nigerian telecommunications market when it obtained a unified access service (UAS) licence for NGN260 million in July 2006.

NIGERIA TO DEPLOY 1,500 VSAT TERMINALS

Within a three-year period, Nigeria has received the sum \$1.2 million (about N150 million) from the Universal Postal Union as grant to improve postal services in the country. The Nigeria Postal Service (NIPOST) is set to deploy 1,500 very small aperture terminals, VSAT in the post offices across the 36 states of the federation. Nigeria is collaborating with France to finance building and deployment of VSAT across the 36 states of the federation and this should be completed in 15 months. This will make possible the introduction of many services, including cyber cafe services in rural areas.

SOUTH AFRICA

INTERNET SOLUTIONS SELECTS ND SATCOM SKYWAN

ND SatCom's technology platform SkyWAN has been selected by Internet Solutions (IS), a leading South-African converged communications service provider, to set up a VSAT network for the Pan-African trade association COMESA. COMESA will connect its offices throughout

the continent to its headquarters in Lusaka, Zambia, for office applications such as internet access, file transfer, phone, fax and email.

WORLD

SPACENET INTRODUCES INSTANT VSAT SOLUTION

Spacenet has introduced a new ION instant VSAT communications solution that enables rapid deployment of complete converged communications through satellite for emergency response teams and remote industrial operations such as oil rigs, mines and construction sites. Available immediately with Spacenet's commercial grade Connexstar service, the new self-contained and field kit offers a turn-key voice, video and broadband data solution, according to the company. The company said that ION can also be deployed as part of a custom developed satellite network. Spacenet's ION is designed with emergency response personnel in mind, and can be easily carried and deployed by one or two people, can be checked as luggage aboard commercial airlines, or integrated into a mobile command vehicle.

KVH AND VIASAT ROLL-OUT MINI VSAT NETWORK

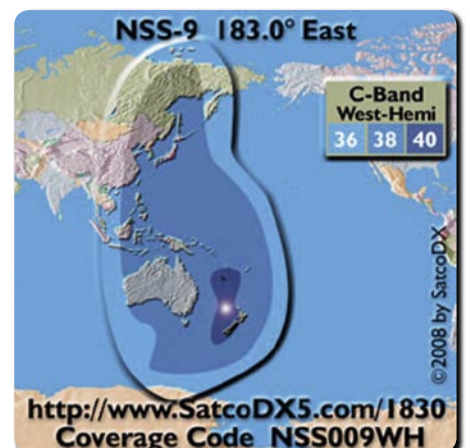
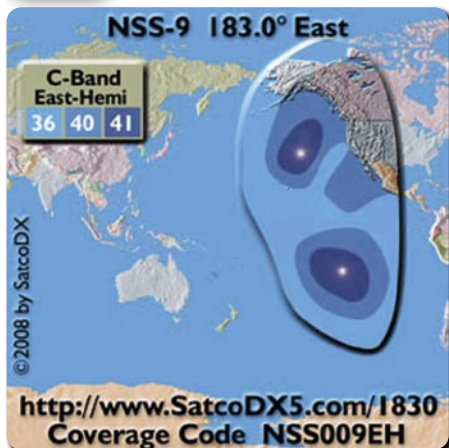
In-motion satellite TV and communications provider KVH Industries has announced a new agreement with ViaSat, to begin the global rollout of mini-VSAT broadband satellite communications service. Under the terms of the deal, KVH and ViaSat will roll out an exclusive global network offering access to KVH's mini-VSAT broadband service for maritime use with airtime revenue to be shared between the two companies. KVH has agreed to acquire satellite capacity from Ku-band satellite operators as well as purchase three new regional satellite hubs from ViaSat. These hubs will use ViaSat's ArcLight spread spectrum mobile broadband technology and be operated by ViaSat.

New Satellites



Edited by
Sylvain Oscul

The Ariane 5 ES-ATV launcher, on its mobile launch table, shortly after its transfer from the Final Assembly Building (BAF) at the Launch Zone (ZL-3) of Ariane Launch Complex no.3 (ELA-3) at the Guiana Space Centre, Europe's Spaceport, on 7 March 2008, for fuelling and final launch preparation. Also visible are two of the four 100-m-tall lightning towers surrounding the launch pad." (Photo: ESA - S. Corvaja 2008; http://www.esa.int/images/_SCO1025_L.jpg)



NSS 9

This satellite will be launched from French Guiana by Ariane 5. NSS-9 will be positioned at 183° E

(177°W) and will replace NSS-5 with three C-band beams. The satellite will carry 44 active C-band transponders with a global beam providing cov-

erage of the entire earth. NSS 9 is intended to free up NSS 5 which in turn will then be free to relocate to 57 degrees to replace NSS 703.

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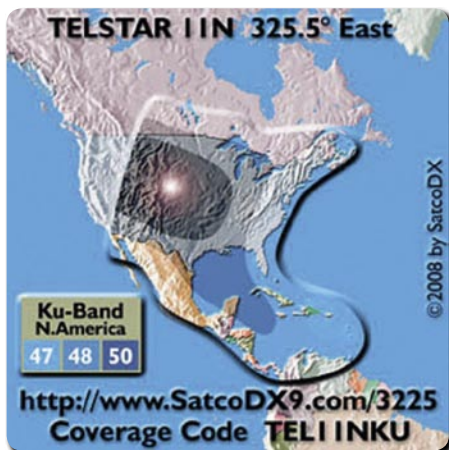


HOTBIRD 9

With a Ariane 5 launcher, this new HOTBIRD will be co-located at 13°EAST, designed to cover all 102 Ku-band transponders at the HOTBIRD position, it will be able to substitute any transponder on any other HOTBIRD satellites. Manufactured by Astrium with a Eurostar 3000 spacecraft type, the satellite has a minimum of service life of 15 years.

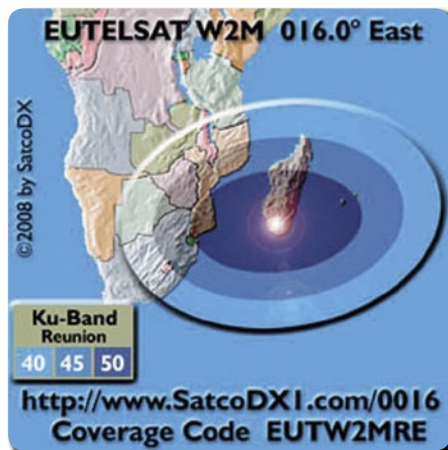
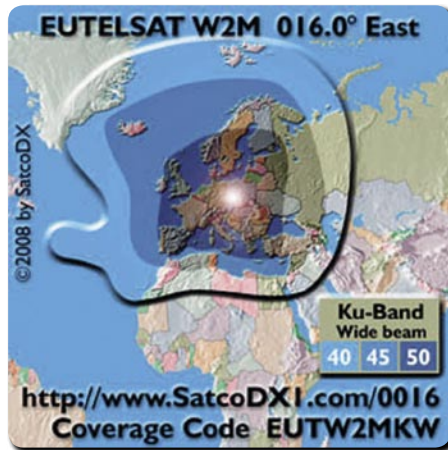
TELSTAR 11N

The new Loral Skynet satellite called TELSTAR 11N will provide service from 39 high-power Ku-band transponders beams. The satellite will be positioned at 322.5°E (37.5°W). TELSTAR 11N is dedicated to complement the coverage of TELSTAR 12 satellite at 345°E (15°W), which provides Ku-band trans-Atlantic coverage.



EUTELSAT W2M

EUTELSAT W2M will operate 26 transponders in Ku-band and up to 32 depending on operational modes, at EUTELSAT's 16° E position. The satellite is planned to be launched with TELSTAR11N in October 2008 from Kourou with Ariane 5 launcher. The fixed beam will cover Europe, North Africa and the Middle East, while a steerable beam can be re-oriented in-orbit according to market requirements.



ASTRA 1M

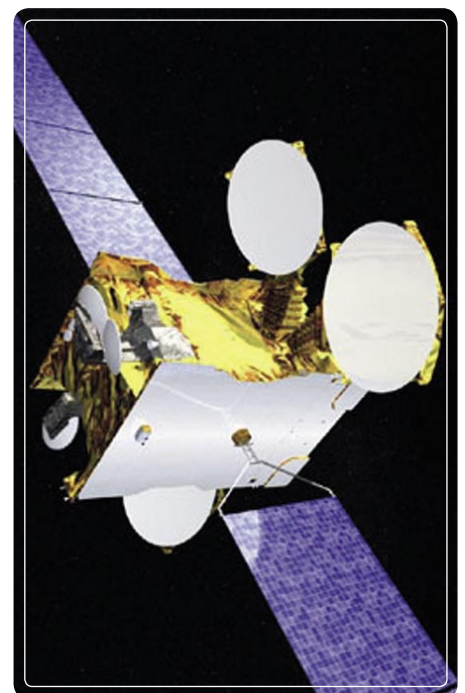
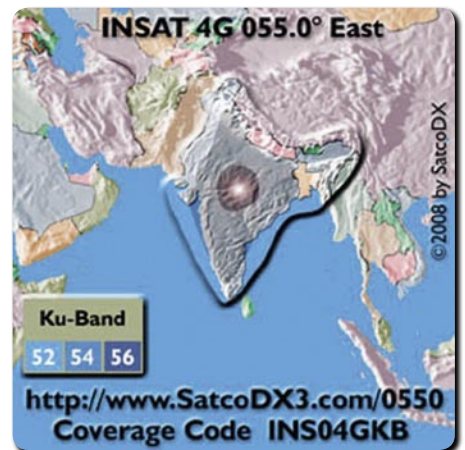
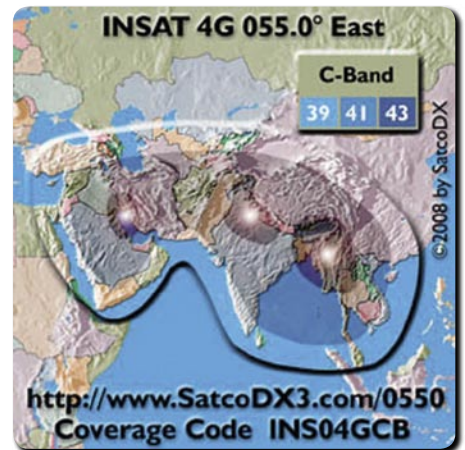
The satellite will be launched from the Cosmodrome in Kazakhstan by a Proton M launcher. EADS Astrium has manufactured this last ASTRA satellite called 1M spacecraft based on its Eurostar E3000 platform, the latest version of the Eurostar series, which became first part of the SES fleet with the ASTRA 2B spacecraft launched in Sep-



tember 2000. ASTRA 1M embeds 36 transponders for the first five years. The satellite is specified for a minimum service life of 15 years.

INSAT 4G

INSAT4G is proposed as a Ku-band satellite carrying 18 transponders similar to INSAT4A. It will also carry 2 BSS transponders and a GAGAN (GPS Aided Geo Augmented Navigation). The satellite will be launched by an Ariance vehicle from Kourou.



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- 16.0E Eutelsat W2
- 26.0E Badr-2,3,4/Eurobird 2
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Azimuth (magn.): 158.2°
LNB skew: -7.2°

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References



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Feedhunter Rini



What you see in your local evening news broadcast has to first find its way from the event location to the TV station's studio. This path typically involves the use of a satellite to get it from one point to another. This type of transmission is referred to as a feed and there are those that have made finding these satellite feeds their hobby. One of those happens to be Rini de Weijze who calls himself Feedhunter Rini, a name he uses to a number of different Internet satellite forums. How do you end up being a feedhunter? We asked Feedhunter Rini that very same question.

Feedhunter Rini has lived in his present home in northern Holland for 33 years. He was a bank manager but is now retired and can therefore spend more time playing with his hobby.

We wanted to know how it all started. Rini was kind enough to explain: "When I was 16, I stumbled onto Radio Moscow while listening to the airwaves and was completely surprised to discover that the transmission was in Dutch." This was the start of his interest in listening to the radio that culminated in the reception of shortwave ship transmissions in SSB.

But he became infected with the satellite virus when he one day spotted a satellite dish. Without any hesitation, he asked the owner of that dish what he was receiving with it.

"It was a 90cm antenna that is still hanging in the same spot today. Back then, the owner, Klaas van der Lingen patiently revealed to me everything he was able to receive with his Echostar receiver", explained Rini of that day.

Not too long after that, an 80cm dish from Triax with positioner was hanging on his own exterior house wall.

"My most interesting experience was the pirate transmissions from the Amateur TV club PI6ALK", remembers Rini, "they simply switched the uplink from the Amateur TV satellite OSCAR over to EUTELSAT 16E and started transmitting." Naturally, the Dutch authorities quickly put an end to that, but for Rini it was quite an experience to see how easy these transmissions could find their way onto a satellite.

In 2004 he upgraded to a 90cm antenna and in 2005 he installed a 90x99cm Fibo antenna with sub-reflector that he still uses today.

He dreams of having a real DX station on an open piece of land on which, together with his friend Ron Ebersson, he can erect large dishes. "We can even get a hold of a used 2.4-meter antenna but it's not so easy to find the space for it." We wish him luck in his search!



Feedhunter Rini on the first floor of his home right next to his 90x99cm dish with sub-reflector he uses for his satellite reception. He can receive satellites from 54° east to 45° west.

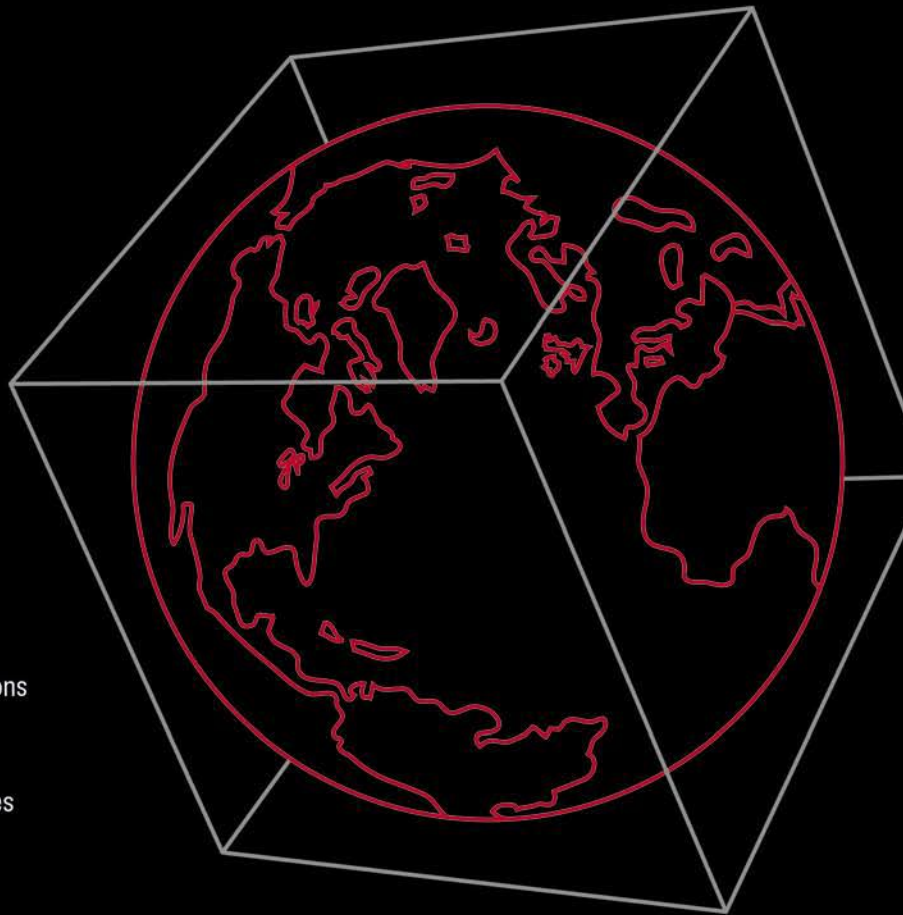


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Reception in his PC is handled by a SkyStar 2 card and the DVBDream software. With the push of a button he makes screenshots that he then uploads to the satellite forums.

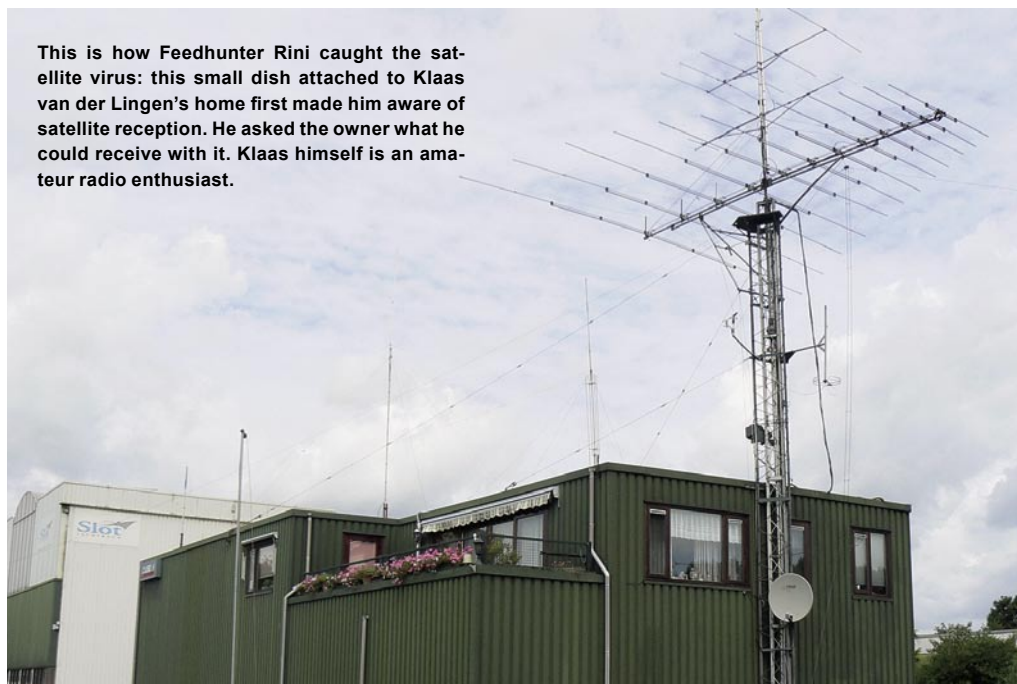


Feedhunter Rini at work feedhunting: with his Quad LNB he connects to three receivers and a satellite card in his PC. He uses a FortecStar box with Aston positioner and DiSEqC converter to move his antenna, as well as a Max Plus and a Max Digital receiver. His TV monitor is set to A/V mode for his Max Digital receiver and he uses two UHF channels to receive the signals from the FortecStar or Max Plus boxes. With a homemade video switch he can send the video signal from his two Max receivers to the video card in his PC to get screenshots of different programs he can't receive with the built-in card.

SATELLITE	FROM	TILL	POLARIZATION	NUMBER OF FEEDS	FROM	TILL	POLARIZATION	NUMBER OF FEEDS	FROM	TILL	POLARIZATION	NUMBER OF FEEDS
2 East ASTRA 1C	11200	12750	H+V	<+>7								
3 East TELECOM 2C	12500	12750	V	<+>7								
4 East EUROIRD 4	10950	11400	H	<+>7	12500	12570	H+V	<+>7				
5 East SIRIUS	12140	12750	H+V	<+>7								
7 East EUTELSAT W3	10960	11200	H+V	<+>7	11370	11420			12510	12560	H+V	<7
9 East EUROIRD 9	No Info											
10 East EUTELSAT W1	10950	11200	H+V	<+>7	12520	12745	H+V	<7				
13 East HOTBIRD	10700	12750	H+V	<+>7								
16 East EUTELSAT W2	10960	11200	H+V	<+>7	11680	11700	V	<7	12500	12750	H+V	<+>7
19.2 East ASTRA	10955	12750	H+V	<+>7								
21.5 East EUTELSAT W6	10955	11000	H+V	<7	11010	11700	H+V	<7	12500	12700	H+V	<7
23.5 East ASTRA	11450	11690	H	<7	12620	12710	H+V	<+>7				
26 East ARABSAT 2	11100	11200	H+V	>7	11630	11660	H+V	>7	12520	12740	H+V	<+>7
28.2 East EUROIRD1/ ASTRA	12500	12750	H+V	<+>7	11470	11490	V	<+>7				
30.5 East ARABSAT 2B	12520	12540	H	<7								
33 East EUROIRD 3	10955	11190	H+V	<+>7	11620	11700	H+V	<+>7				
36 East EUTELSAT W4	10955	11700	H+V	<+>7	12640	12660	V	<7				
39 East HELASSAT	10950	11150	V	<7	11450	11700	H	<7	12550	12660	H+V	<7
40 East EXPRESS 1AR	11030	11200	V	<7	11450	11640	H+V	<7				
42 East TURKSAT/EURASIA	10950	11200	H+V	<+>7	11480	11970	V	<7	12510	12750	H+V	<7
45 East EUROSTAR 1	11450	11690	V	<7	12510	12710	H+V	<+>7				
53 East EXPRESS AM22	11080	11700	H+V	<7	12630	12670	H+V	<+>7				
54.8 East INTELSAT 702	11100	11150	V	<7								
57 East NSS 703	11040	11550	V	<7								
1 West INTELSAT/THOR	10980	11200	V	<7	11460	11680	V	<7				
4 West AMOS	11150	11350	H	<+>7	11415	11580	H	<7				
5 West ATLANTICIRD 3	10950	11200	H+V	<+>7	11450	11700	H+V	<+>7	12540	12700	H	<+>7
7 West NILESAT	10700	12750	Div									
8 West ATL.BIRD/TELECOM 2D	12500	12750	H+V	<+>7	11450	11680	H+V	<+>7				
11 West EXPRESS 3A	11480	11700	V	<+>7								
12.5 West ATLANTICIRD	10950	11200	H+V	<7	11325	11700	H+V	<7	12530	12760	H+V	<+>7
15 West TELSTAR 12	11000	11040	V	<7	11450	11700	H+V	<7	12520	12750	H	<+>7
18 West INTELSAT 901	10960	11700	H+V	<+>7								
20 West INTELSAT 603	10940	11700	H	<+>7								
22 West NSS 7	10950	11160	H	<+>7	11465	11700	H	<+>7	12510	12720	H	<+>7
24.5 West INTELSAT 905	11050	11690	V	<+>7								
27.5 West INTELSAT 907	10950	11700	V	<7								
30 West HISPASAT	11460	11680	H+V	<+>7	12035	12180	H+V	<+>7	12535	12750	H+V	<+>7
31.5 West INTELSAT 801	10960	11050	V	<+>7								
34.5 West INTELSAT 903	11120	11700	V	<+>7	10960	11000	V	<7				
37.5 West TELSTAR 11	11500	12750	H+V	<7								
43 West INTELSAT 3R	12500	12750	H+V	<+>7								
45 West INTELSAT 1R	11480	11700	H+V	<7								

This list compiled by Ron Ebersson and Feedhunter Rini and constantly kept up to date by them is the key instrument for looking for new feeds on a daily basis. The list shows satellites which are used for feeds, as well as the frequency ranges, polarisations and average number of feeds. To start with, Feedhunter Rini rotates his dish to the required satellite. Next, he lets his receiver scan only the range between the two frequencies and this way finds the feeds as quickly as possible. On his PC he then makes screenshots and uploads the files to specialist satellite forums such as sat4all.com and dxtv.eu. Other feedhunters therefore can find out within minutes which feeds are currently active. If you like to have a go for yourself you should begin with choosing a satellite that transmits many feeds so that your chances of actually discovering a feed are highest. Bear in mind, though, that feed transmissions often only last for a few minutes. Only rarely are they active for more than an hour – such as when a football match is transmitted, for example.

This is how Feedhunter Rini caught the satellite virus: this small dish attached to Klaas van der Lingen's home first made him aware of satellite reception. He asked the owner what he could receive with it. Klaas himself is an amateur radio enthusiast.

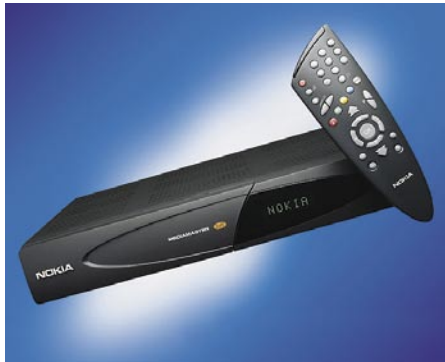




Edited by
Alexander Wiese

Nokia Mediamaster 9800S

Almost everyone in the digital satellite reception market was curious about the successor of the famous Nokia 9200/9600 family of satellite receivers. Almost three years after the European launch of digital satellite television, it seems that Nokia has set the market standard for digital set-top boxes.



No wonder, it was the first receiver capable of doing software and settings updates over the air, but even more importantly through the Internet. Get the latest channel lists from the Internet and upload them into your receiver within minutes. It saves a lot of time and your receiver always has up-to-date channel settings.

MTI LNB AP8-T2

For most experts, Microelectronics Technology is probably better known as MTI. Professionals have known MTI for years by their VSAT installations,



SCPC reception units and microwave transmitters. Of course, the development of LNB is a continuous process whereas improvements are made over and over again. Recently, MTI has introduced the AP8-T2 LNB. As a professional manufacturer should, MIT do their best providing realistic specifications. For MTI, the outstanding performance of the AP8-T2 is very stable in its LOF. We ordered two samples and gave them a thorough test, not in our lab but up on the roof. Only the extreme temperatures in our test had to be created artificially.

Radix S.T.E.A.L.T.H.



10 Years Ago

**Travel into the Past
TELE-satellite Magazine
Issue 10/1998**

In last issue, we reported about our visit to the Radix distributors meeting. There, the official introduction of their latest receiver, the Radix Stealth, took place. Most distributors immediately placed their orders. We took one sample with us and gave it a thorough test. And now, just before the holidays are coming, the Stealth has hit the shops. What is so special about it? You may associate the name with invisibility. That is almost right. Of course, the box is not really invisible, but you can put it anywhere behind books or in a cupboard.

Hirschmann Hit-Sat

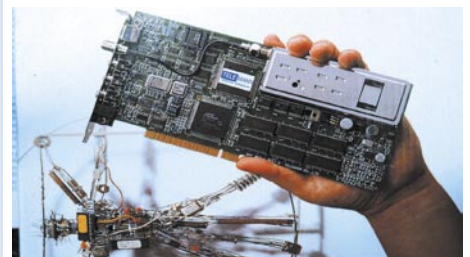
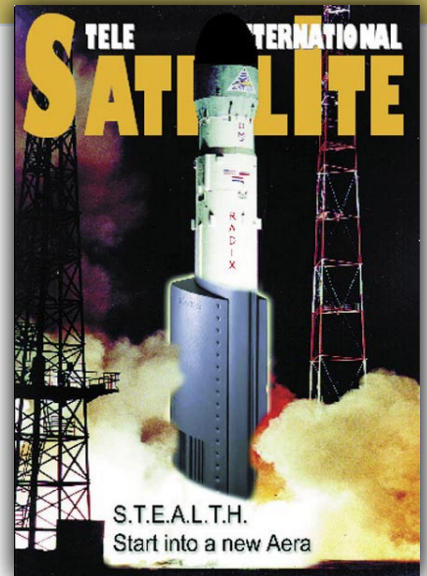
Hirschmann offers a complete kit with all components you need to get started right away. All included in one sturdy box are a dish (65, 75 or 85 cm), a universal LNB (digital compatible) and an analogue Satellite receiver.



The included LNB is a Twin LNB, so it is very easy to connect an additional digital receiver, which can be operated completely independent of the analogue box. Another fine solution could be the use of one dish for two households.

SkyMedia 200

Special MPEG streams on satellites all over the world contain Internet information and other data such as pre-selected material or continuous streams of information. You will need a personal computer if you want to subscribe to such a service. But as there's more



digital stuff on satellites nowadays, such as TV channels, why not receive them as well? Telemann-Satellite Solutions offers the SkyMedia 200, a special PC card that allows reception of almost all kinds of digital satellite signals. The television or radio signals can be fed to

your television or hi-fi set, and the data services stay where they belong—on your computer. Professionals can now watch CNN (available on almost every satellite) and at the same time receive data services from the same orbital position. But this combination makes sense even at home. You can, for instance, use a satellite-based Internet service while the rest of the family watches a digital channel on the usual TV set.

Prosat P-2002S

Two years ago a minimalist digital receiver would set you back some 900 Euros—only to allow you



stations cover the geostationary arc from 45° West to 180° East. That makes it very universal for a large area that includes Africa and the Mid-East.

PalMaster 1000

The technology comes wrapped in a modern design which, not quite coincidentally, matches the style of Bang&Olufsen TV sets. The brand is quite popular in Scandinavia, so the PalMaster's remote can also control B&O TVs. On the front of the receiver, a large six-digit display gives you all information you would like to see on the receiver itself. It can store up to 500 channels. A metal lid hides the three famous buttons for emergency operation. Here, there are also two smartcard slots for the MAC decoder that is built into the Scandinavian version of the PalMaster 1000. Even at the back, there is nothing special to be found: three Scart connectors, two LNB inputs (900-2150MHz), and phono jacks to get the audio signals over to your stereo.

to catch one or two digital bouquets if you were lucky. Today basic units like these are almost impossible to come by. Consumers demand digital boxes that can be used to receive all channels and services in the DVB standard—this has become the only selling argument. Nonetheless, a well equipped digital receiver for less than 350 Euros is a rare thing. TSI picked one of the few cheapies on offer and examined it to the extreme: P-2002S



DB-6000

This new digital receiver is the first box for DVB reception from Benjamin Electronics Co. Ltd. of Taiwan. They have done a very good job examining the markets before actually producing anything. First of all, this DB-6000 will strike you because of its silver colour. Finally some colour in this black box business. The metal housing makes the receiver heavy duty, sturdy and very well suitable as the foundation of a heap of other boxes. On the front, we found a large four-digit display indicating the channel ID. The DB-6000 can store up to 1000 channels. Also located on the front are the buttons for channel browsing and standby.

MSS-220

It was a very practical reason why we wanted to test the new MSS-220. In our test lab we were looking for an analogue receiver capable of processing the signals from two dishes and also being C-band compatible. On the other hand, it should also be able to store all available channels on all the important satellites. So we came across the MSS-220. For Pace it is very much common to build satellite receivers on a region specific basis, which means that you will find an appropriate decoder built in (if any) in addition to pre-programmed regional satellite channels. In the UK, for instance, the MSS-220 comes equipped with a Videocrypt decoder, but there is no decoder in it for the rest of Europe. Here, the pre-programmed



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<http://magazine.TELE-satellite.com/vintage/TELE-satellite-9810-deu-eng.pdf>



Edited by
Alexander Wiese

Market review of rotary dishes

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D2-MAC card

D2-MAC Entwicklungszustand bei Intersat

Die Entwicklung der Chip 11 D2-MAC 2210 machte die Intersat-Freizeit zur Fortschrittsleistung. Einmal in die Bauteilherstellung am Stand auf der IFA nicht möglich war, nicht nur aus der Phase und den Designanforderungen, die den Chip in die Satelliten-Rezeivoren und TV-Geräte integrieren werden, in einem renommierten Hotel präsentieren. Selbst die in der Entwicklung befindlichen Prototypen werden nicht mehr als Prototypen angesehen, sondern werden in die Integration in den Chip-Design einbezogen. In diesem Zusammenhang wird die Integration in den Chip-Design einbezogen. In diesem Zusammenhang wird die Integration in den Chip-Design einbezogen. In diesem Zusammenhang wird die Integration in den Chip-Design einbezogen.

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Grundig reveals first 100 Hz TV Set

Super-Fernseher für Satelliten

Zur Fortschrittlichkeit wird der erste satellitennutzende 100-Hz-Fernseher vorgestellt. Ein 4-Milli-Superseher entpuppt sich als Satelliten-Fernseher, was ein faszinierendes Bild ergibt. Eine Standard-Fernseher, die Antennenparameter kann als Multisystem alle TV-Formate empfangen. In 100 Hz wird jedoch nicht demnach dazu. Besondere Satelliten-Rezeivoren werden für den Satelliten empfangenen Signalqualität und einem TV-Gerät zu dienen die Qualität der empfangenen Technik erklären.

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Portable Satellite Receiver by Stog

PORTABEL SAT-RECEIVER

Camping Sat

Mit Miniatur kommt ein 12 Volt Einfach-Satelliten-Receiver auf den Markt

Im Standardgehäuse mit 18 cm Breite und 5 cm Höhe läßt sich bestmögliche Bereich ein kompletter Satelliten-Receiver unterbringen. Der Nachteil, daß in so kleinem Gehäuse kein Netzteil mehr Platz hat, entpuppt sich beim kostengünstigen „Galaxy“ gesteuerten Mini-Receiver von STOG als Vorteil: Es ist jedenfalls der erste Receiver der unterkommt, der mit der Autobatterie betrieben werden kann.

Das fahrende Auto wird zwar sehen zum Satellitenempfang genutzt, aber während des Campingaufenthalts im Innern im Ausland läßt sich bequem das gewünschte TV-Programm auf dem Leinwandbildschirm empfangen. Eine AFC-Schaltung hält den Empfangskanal immer selbst auf Mitte.

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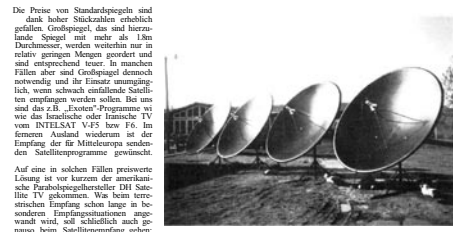
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20 Years Ago

Travel into the Past TELE-satellite Magazine Issue 05/1987

Multiple Dishes Pointing to Same Satellite for Higher Gain



Die Preise von Standardspiegeln sind durch hohe Stückzahlen erheblich gefallen. Großspiegel, die sind herzustellen Spiegel mit mehr als 1,8m Durchmesser, werden weiterhin nur in relativ geringen Mengen gefertigt und sind entsprechend teuer. In manchen Fällen aber sind Großspiegel dennoch notwendig und für Einsatz umganglich, wenn schwach einfallende Satelliten empfangen werden sollen. Bei uns sind das z.B. „Exoten“-Programme wie vom INTELSAT V45 bzw F6. Im Fernost Ausland wiederum ist in besonderen Empfangsstationen angewandt wird, soll schließlich auch gemessen beim Satellitenempfang gehen, das simple Parabolspiegel mehrere gleichzeitige Spiegel zur Erhöhung des Empfangsleistung.

Der Chef von DH Satellite TV, Franklin A. Weeks, schrieb uns dazu:

Die Idee zu diesem Empfangskonzept entstand während einer Satelliten Fachmesse. Im Gespräch mit Keith Anderson (Chef der Satellitenfirma Anderson Scientific) „Lloyd“ erklärte mir dieser von einer Geschäftsidee in den Spätdes. Er traf dort einen Freund, der ihm erzählte, daß er mit seinem 6 m Spiegel nicht empfangen könne, ein noch größerer Spiegel aber nicht mehr möglich wäre. Ich schlug ihm daraufhin vor, er solle eine Methode entwickeln, mehrere Antennen in Phase zu schalten, daß ich einen einzigen Großantenne derselben Empfangsleistung erzielte. Keith sagte, er könne eine Weiche, Phasenschieber und darauf abgestimmte Downconverter entwickeln. Wir kamen überein, diese Idee gemeinsam zu verwirklichen. Ich liefere die Spiegel, er die Elektronik.

Soweit Franklin A. Weeks, der als Chef eines Spiegelbetriebes um die Schwenkung

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- **7 - 12 October 2008: CeBIT Bilişim Eurasia**
ICT trade show
TUYAP Fair and Congress Center, Istanbul, Turkey
www.cebitbilisim.com



- **15 - 17 October 2008: ScaT India**
South Asia's Largest Tradeshow Of The Indian Cable & Satellite Television Industry
World Trade Centre, Cuffe Parade, Mumbai, India
www.scatindia.com



- **29 - 31 October 2008: EEBC 2008**
6th Eastern Europe Exhibition and Conference
Kiev Expo Plaza, Kiev, Ukraine
www.eebc.net.ua



- **3 - 5 March 2009: CABSAT 2009**
Middle East's Electronic Media & Satellite Communications
Dubai World Trade Center, UAE
www.cabsat.com

- **2 - 5 February 2009: CSBT 2009**
Cable, Satellite, Broadcasting, Television
Crocus Exhibition Center, Moscow, Russia
www.cstb.ru



- **19 - 21 March 2009: SatExpo 2009**
Space and Advanced Telecommunications
New Rome Fair, Rome, Italy
www.satexpo.it



- **25 - 27 March 2009: Satellite 2009**
Exhibition for Satellite Enabled Communication
Walter E. Washington Convention Center, Washington, USA
www.satellite2009.com

- **March: CCBN 2009**
The 17th China Content Broadcasting Network Exhibition
China International Exhibition Center, Beijing, China
www.ccbn.tv



- **26 - 28 May 2009: ANGACABLE 2009**
Tradefair for Cable, Broadband and Satellite
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www.angacable.com

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SatcoDX Suite and Updater		#209	02/2009	5 December 2008	16 January 2009	30 January 2009
SatcoDX World of Satellite		#210	04/2009	6 February 2009	13 March 2009	27 March 2009
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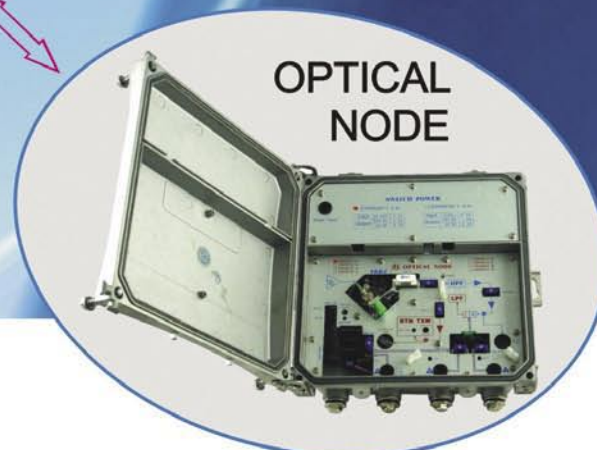
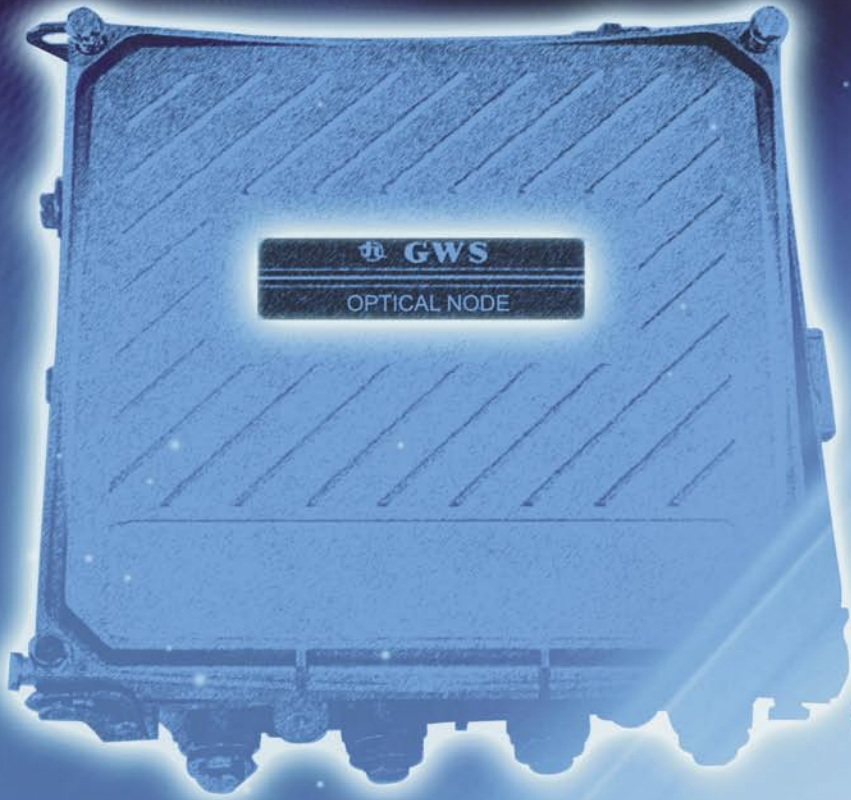
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