

INFO Televes®

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Televes wishes you Happy Holidays and a Prosperous 2016

There are many experiences lived in this 2015 that make us optimistic about the entry of the new year.

In general economic terms, a glimpse of steady growth sets in the horizon, which predisposes us with contained excitement towards the emerging trends for our sector, mainly driven by the guidelines set by the European Digital Agenda, and focused on developing a new model of high capa-

city TV and data networks in building and home infrastructures, to provide enhanced television, entertainment, health and well-being services.

It is our hope at Televes that all our clients and friends enter this new year full of challenges and satisfactions. May you, your families and loved ones have Happy Holidays and a Prosperous 2016 ■

AND ALSO...



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The unstoppable evolution towards data networks

NEW PRODUCT

CoaxData, the only one with MyNET WiFi technology.



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televes.com

MEETING POINTS

Visit us at:



JANUARY

25-28	ARAB HEALTH MEDLAB	Dubai
26-28	CSTB	Moscow



FAQs

MUM Mikrotik

Madrid, October 16th



The event gathered expertise from all over the world and it was a chance to position Televes solutions for integration of television and data services onto high capacity networks. Televes presented OLT512 series of cost-effective triple play solutions over optical fiber, as well as CoaxData, the only integration platform to offer MyNet WiFi technology.

Cable-Tec Expo'15

New Orleans, Alabama (USA),
September 28-30th



We continue to make great strides in the US market. The experts that attended the show gave a warm welcome to the new OLT512 line presented by Televes; the range of solutions to integrate television and data services onto GPON Fiber Optic networks, as well as professional measuring solutions like the H30D3 portable field spectrum analyzer and the RCS integral control for broadcast.

Hotelia

Thessaloniki, 11 - 15 November



Our hospitality solutions, IPTV headends and DS were shown by our distributor Edison. Managers of the main hotels in the North of Greece attended this event ■

Why occasionally is not possible to watch some DTT channels through an encoder?

Features of the A/V signal could affect the output signal.

THE EXPERT SAYS

Sometimes it is not possible to reach the performance expected when trying to have a DTT HD channel from a HDMI source.

Usually this problem is caused by a lack of awareness of the TV features. Some TV models are High Definition (1920 x 1080p) compatible just through a HDMI source which means that their tuner is not able to receive a DTT HD signal.

To sum up, your encoder is likely to be working fine but the problem is normally caused by the resolution of the A/V signal. Therefore the solution would be to adjust the resolution of the HDMI or A/V source so that the DTT signal will also have a lower resolution (for example 1280 x 720p) ■

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ALWAYS AT THEFRONT

H30 V1.29 Upgrade

More features for the meters 593102 and 593104 v1.29

New features:

Long Term Monitoring and FM Scan.

- A long term monitoring keeps a periodic log of the signal's quality so that it can be sent afterwards upload to a database.
- Configuration of the network mask in network settings.



The possibility of configure the H30 as a host with a variable network mask.

- **Ingress Scan:** new range of frequencies compatible with upstream in DOCSIS 3.1
- Allocation of quick key "Hold OK" to save measurements ■

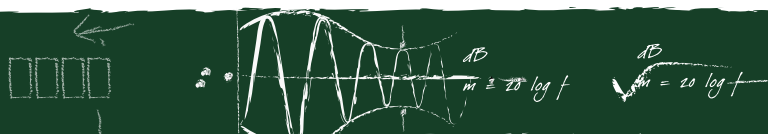
YOUR PICTURES



TRAIN MODELING

It is very remarkable the accuracy of mock-ups.

In the picture, this realism is reflected in the mockups of a train station with a satellite dish installation. There is no greater realism than this dish with its characteristic orange ■



The versatility of the Nevo range and the importance of output impedance

The versatility of the switch cascade/standalone and high/low gain the difference in the Nevo range

Televes's mult switches are manufactured with the latest technology, high quality components and a high standard quality control. Televes is loyal to the company philosophy "European technology designed and made in Europe".

With NEVO, Televes has increased its range of mult switches with 5, 9, 13 and 17 inputs.

All the products in this range meet the standard A class for screening with excellent technical features.

The mult switches can be configured as cascade or stand-alone with the flick of a switch. This mechanism makes it possible to adapt the mult switches to different installations.

Any other mult switch in the market needs to use terminal loads in any unused output. Unfortunately the installer sometimes forgets this so the installation is not optimized. However thanks to the adaptability of the Nevo the installation work is easier. All the products of the Nevo range are supplied with the output impedances activated, this means that when the installer receives the mult switch, it is ready to use it as terminal.

This innovation made by Televes makes it possible to save time and money as usually the installer will need a terminal load ref. 4058 to complete the installation. This is not necessary with the Nevo range.

Some of the highlights of this new range are the zamak-made chasis (improved screening), the small size of the product and a low power consumption.

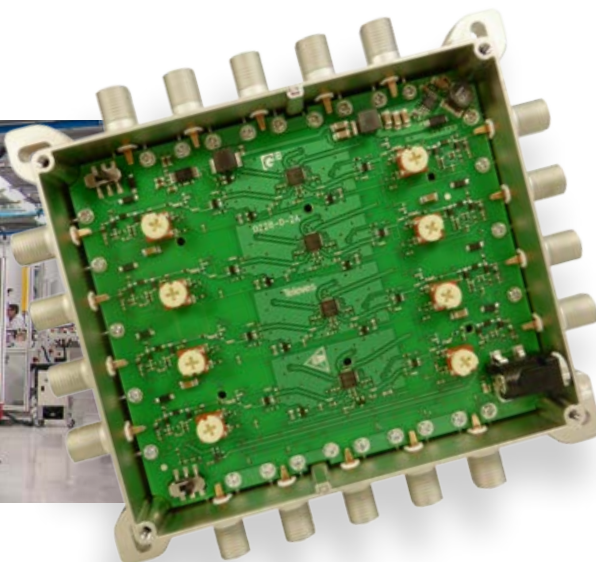


te feeds. All these features give to the Nevo range the reliability that makes the difference in the market.

Finally it is worth mentioning that the range includes mult switches of 1 to 4 satellite inputs and up to 32 outputs. Also the range is suitable for small or big installations ■

The mult switches 9, 13 and 17 have a different power supply (732101 and 732801, both 12V output and maximum current 0.8A and 2.75A respectively), they are ideal for projects that require return path and a switch to choose between Low and High gain for the satellite

Nevo switch®





the only one with **MyNET** WiFi technology



The most secure Internet access

Televes' Mynet WiFi technology allows you to configure your **CoaxData Wireless Access Point in low power mode**, allowing you to reduce the coverage radius to prevent any third party unauthorized access

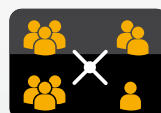
— Power + Security



TV and Internet services Integration on coaxial networks



Signal Extension without amplification



Creation of Users Segmented networks



Monitoring of the created networks with the Access Control application



100% Designed, Developed & Manufactured in Televes Corporation
televescorporation ■ televes.com ■ televes@televes.com

Televes[®]

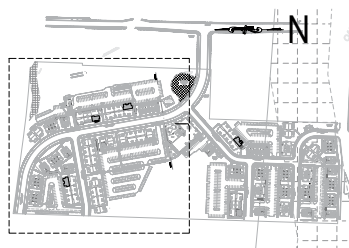
TELEVESPROJECTS

Fibre optic Triple play through a GPON solution in Oregon (USA)



In Corvallis, a town in the State of Oregon, a new fibre optic installation with a GPON solution has been done in a student accommodation called "The Retreat at Corvallis".

This installation feeds 400 users thanks to the OLT512 ref. 769401 and 346 units of the ONT ref. 769502. There is also a possibility to use Video Overlay in the 1.550nm window ■



INSTALLER:

INFINISYS

Electronic Architects

DID YOU
KNOW..?

Televes started using microchip technology in 1986?

Just a year earlier Europe had begun to receive the first integrated circuit units. A very selected group of companies had sufficient technological capacity to utilise these small packaged computer circuits made out of semi-conducting materials in their industrial manufacturing processes. Televes began to incorporate this technology in the SAT 90 line of amplifiers, achieving reliability levels that had never been seen before. The founding layers were being set for cutting-edge industrial develop-



ment that remains the core nature of our company's philosophy thirty years later.



IDEAS

Wall bracket to hold a CoaxData Gateway Ref.769301

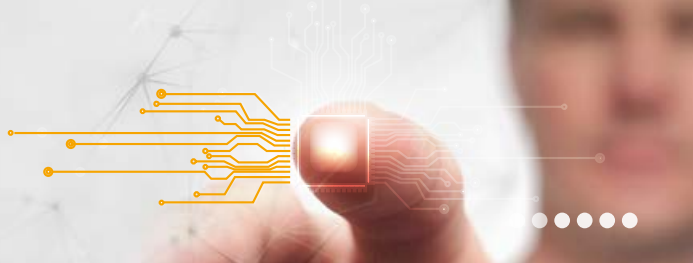
Sometimes it is necessary to do a installation in a very specific location.

Usually in hotels, schools, small shops, etc. there are a WiFi access points in a fitted communal area.



The CoaxData Gateway can be fitted on tables or be attached to it using one of the accessories included in the product. However, now there is a new accessory ref. 640301 that allows to us to install it on a wall. This new bracket makes it also suitable to be fitted in public spaces ■





The unstoppable evolution towards data networks

Transmission protocols, both in wired and wireless networks, evolve in parallel with the growing demand end users have for data services.

While the mobile telephony sector continues assimilating current 4G LTE deployments, the next 5G generation, which will represent a quantum leap in capability for users, is being evaluated. Wired networks are also advancing rapidly; GPON grows to TWDM and XG-PON to provide greater capacity, DOCSIS 3.1 provides an alternative to fiber optic deployments up to 1 Gbps, and G.fast extends binary possibilities for twisted pair deployments.

But also **broadcast networks are gearing up to become more efficient in data transmission**, as is the case of DVBS2 and DVBC2.

DVB-S2 is a broadcasting technology that works very closely to the theoretical limit of maximum bit capacity for a given quality ratio. Because of the increasing demands for greater capacity for internet users, the DVB defined the requirements that eventually led to a single standard, called **DVB-S2X**, which was finally published in 2014. It is a profound enhancement of the DVB-S2 spectral utilization, with 116 combinations of modulation and FEC, audio, video and data in IP format, as well as offering the possibility of "bonding" transponders to increase the bit rate.

Regarding the evolution of the DVB-C, many of the commercial requirements for **DVB-C2** were approved as a mirror image of its DVB-S2 twin brother, for instance increasing 30% of overall capacity. But it also includes more specific requirements for cable networks, such as techniques to improve the efficiency of IP data transport, the integration of low cost "edge QAM" type solutions, or low latency for distribution of interactive services. The definitive DVB-C2 specification is based on COFDM (multicarrier) with guard interval and QAM modulation for the individual carriers, which differs significantly from DVB-C, single carrier.

Technology trends are all aimed at offering end users an increasing flow of data both wired and wireless, either fiber, coaxial cable, or twisted pair, to enable services and applications that we are just now beginning to know, but very soon will become the 'day to day' of our augmented reality: Internet of Things, Smart Cities, Digital Homes, Telecare and Teleprevention, OTT or Ultra High Definition. ■

