

INFO Televes®

BIMONTHLY NEWSLETTER • Nº23 - APRIL 2014

FREE EDITION



Televes INFO: The value of information

Directly reach customers and partners, so that they know which Televes is able to offer. This is the vocation of Televes INFO, the newsletter of the company. The project has a long history. It was first published in Spanish version which has already reached the 141 number and currently has a print run of 30,000 copies. The next step in its development was the publication in Portuguese, now in its tenth anniversary. The international version was launched in June 2010, and is published in five languages: English, French, German, Italian and Polish.

Thus, the newsletter reflects the overall vision of the company, and reaches all the countries where Televes has a business presence. As an active and constantly evolving project, INFO has adapted to technological developments and how users access and use information. Currently, the printed editions are published

in Spain, Portugal and Germany, adding *online* versions, available in all languages, in both PDF and HTML.

With a design planned for easy reading, INFO talks about Televes, about new products and about his developmental milestones as a company. But also notes the technological evolution and current issues in the telecommunications industry. In addition, it answers to questions and doubts that professionals may have, provides opportunities for training, review outstanding facilities, and always has a place for a curious photo. Suggestions and comments that readers send us have been, and certainly will continue to be, a real asset to the continuous improvement of the newsletter. After all, INFO represents the value of information and is a key part of the Communication Strategy of Televes ■

THE TELEVES INFO IS A COMMUNICATION TOOL THAT REACHES,
IN SEVEN LANGUAGES, MORE THAN 100 COUNTRIES ON FIVE CONTINENTS

AND ALSO...



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camera powering
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Televes has not always been called Televes?

MADE IN TELEVES

Televes manufactures... the manufacturing
plant.

NEW PRODUCT

QSD Antenna:
Rust, is up to you to prevent it.



Televes S.A.

42° 51' 43.6212" N, 8° 33' 27.702" W



Tel. 902 686 400 - Fax. 981 522 262



televes@televes.com

www.televes.com

MEETING POINT

Visit us at:



5-8 APRIL
NABSHOW Las Vegas USA

5-7 MAY
TEAM SUMMIT Orlando USA

20-22 MAY
ANGACOM Cologne Germany



ANDINA LINK

(Colombia) 25th - 27th February



The presence of Televes in the Andina Link fair (Cartagena de Indias-Colombia) focused on local legislation solutions (RITEL) and on the fiber-optics market for TV operators (RFoG).

At the stand, the highlights were the H30 and H60 meters, also T.OX transmodulation and fiber-optics solutions, and amplification headends adapted to RITEL.

CABSAT

(Dubai) 11th-13th March



Televes Middle East Participated in the Cabsat fair, in Dubai, held this year between the 11th and 13th of March.

Cabsat is the leading fair of telecommunication aimed at markets of Middle East, Africa and Southwest Asia. The stand of Televes showed the main newness that have been made for these markets: the NevoSwitch series, multiswitches developed and manufactured entirely in the Televes headquarters in Santiago de Compostela. But other highlights were also the new features of the IPTV headends, Digital Signage and new T.OX modules.

The many visitors to the stand took the opportunity to check the great business opportunities that generate these new products ■

Class A+ PRO EasyF connectors

The protection against LTE/4G signals in a coaxial network, should it be a concern only related to the coaxial cable?

THE EXPERT'S OPINION

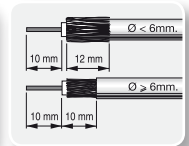
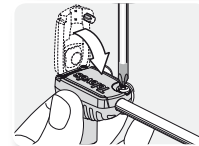
The coaxial cable, despite being a decisive factor in a facility, can not be considered as the great responsible for its effective functioning.

The quality of the connectors is essential and is defined by aspects such as shielding, robustness in central connector contacts and reliability of the grid connection.

The new "ProEasyF" connectors provide a A+ shielding and facilitate assembly by a single screw that ensures a pressure on the central conductor more effective than using compression connectors.



Made of Zamak-5 with zinc, these connectors provide an extraordinary durability, supported by countless facilities with PRO connectors installed on previous generations ■



Ref.413210

Ref.413310

Ref.413410



More information on televes.com

Javier Esteban
Technical Assistance Manager

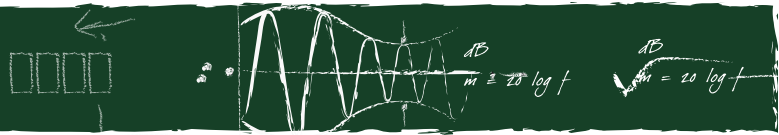


YOUR PICTURES



A good scare-stork

From the Seville town of Marchena, we received this picture in which a handcrafted arachnid turned our DAT45 into a haven to scare storks. An ingenious solution to avoid the unpleasant wastes that used to spoil the facade of the house ■



USB chargers: "Cheap works out expensive"

The USB chargers have quickly become an item in widespread use, and it is an important complement to the new consumer habits. Unknown to the general public and ignored by the expert, the quality of these chargers is threatening the integrity of the devices they charge, mainly Smartphones and Tablets.



Simply inspect the inside of one of these chargers, at first glance it is clear to recognize a significant risk of malfunction: the result of a chaotic design and a disastrous manufacture.

The nonexistent quality in the jumble of components forming the charger, increase the risk of failure of the device to be charged.

The parameters that best define the quality of these chargers are efficiency and ripple.

The **efficiency** indicates the amount of energy wasted in the charger operation or, what is the same, the energy actually used to charge. The efficiency values for a charger should be similar to those of a high quality switched-mode PSU, i.e. about 70%.

The Televés charger (ref.434401) obtains an efficiency of 73% for voltages of 230VAC.

In the market there are chargers whose efficiency does not reach 50%. This means that half of the power consumed is used in its own operations, and most of it is dissipated as heat. The main consequence of deficient design is the degradation of components, both of which generate heat as those around them. Proof of this is the fact that many users know if the smartphone finished charging only touching the charger, evaluating the heat it generates. Over time, the charger will become a source of faults.

The **ripple** could be defined as the "little" AC component remaining after rectifying an AC signal to get a DC signal.

The ripple current causes heating of the battery which contributes to its premature aging.

As time passes and charger components are deteriorating, the ripple current tends to increase, severely compromising the integrity of the powered device.

And here is the paradox: to save a little money, devices that are more expensive than the charger, like smartphones or tablets, are put at risk.

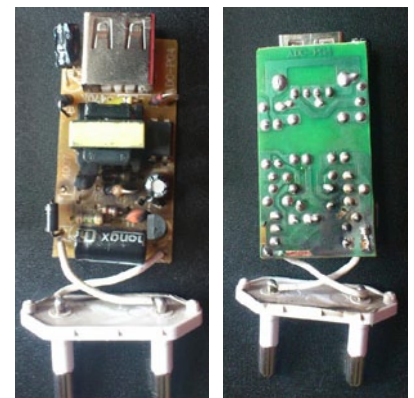
Ref.434401 charger ripple is 50mV, compared to typical values closed to 1V of many imported chargers that fill the shelves of stores or come standard with prestigious smartphones.

Disguised with a remarkable appearance, attractive shapes and pleasant to the touch, many of chargers we use are real "ticking time bombs": elements that sooner or later make us think and remember the popular proverb: "cheap works out expensive" ■



A careless design and a circuit with low quality components are the cause of unacceptable values of efficiency and ripple.

| Mains V | W | Idc | Iac rms | VOUT (w/o load) | VOUT (w/load) | Idc(min) | VOUT (w/load min) | Ripple (mV) | Short-circuit full load | ON in short-circuit | Consumption (short) | Total Efficiency % |
|---------|-----|-------|---------|-----------------|---------------|----------|-------------------|-------------|-------------------------|---------------------|---------------------|--------------------|
| 196 | 2,2 | 500mA | 24,0mA | 5,45V | 2,05V | | | 780 | OK | OK | 2,54mA | 46,59% |
| 230 | 3,8 | 500mA | 35,0mA | 5,54V | 4,60V | | | 880 | OK | OK | 17,80mA | 60,53% |
| 264 | 4,4 | 500mA | 36,0mA | 5,43V | 5,41V | | | 1100 | OK | OK | 20,60mA | 61,48% |

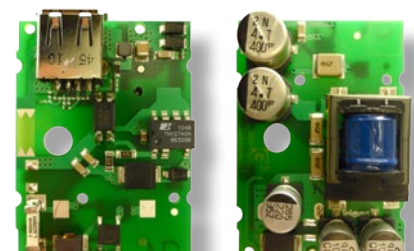


Imported chargers that broke down.



The design, quality components and manufacturing excellence allow the Televés USB charger to have exceptional values of efficiency and ripple.

| Mains V | W | Idc | Iac rms | VOUT (w/o load) | VOUT (w/load) | Idc(min) | VOUT (w/load min) | Ripple (mV) | Short-circuit full load | ON in short-circuit | Consumption (short) | Total Efficiency % |
|---------|------|----------|---------|-----------------|---------------|----------|-------------------|-------------|-------------------------|---------------------|---------------------|--------------------|
| 196 | 10,0 | 1500,0mA | 96,7mA | 5,12V | 4,94V | | | 44 | OK | OK | 2,48mA | 74,10% |
| 230 | 10,1 | 1500,0mA | 88,4mA | 5,15V | 4,96V | | | 50 | OK | OK | 3,03mA | 73,66% |
| 264 | 10,3 | 1500,0mA | 82,3mA | 5,15V | 4,98V | | | 50 | OK | OK | 2,81mA | 72,52% |



TELEVES FACILITIES

American Hospital, Dubai



Televés Middle East, Televés' Dubai subsidiary, has recently completed another referral installation to add to its growing range of emblematic facilities. Televés is working for the first time with the **new IP>COFDM modulators** at the American Hospital in Dubai: these modulators receive IP multicast streams from a local operator and modulate them into COFDM signals so the received services are fully available in any TV outlet.

It's an ideal solution for those facilities that already have a coaxial infrastructure, combining IP technology from the operator and COFDM.

In this case, the IP connection is provided by Etisalat, the biggest Telecom Company in the Middle East, which has chosen Televés as its tech Partner. The Televés kit consists on 7 IP>COFDM transmodulators, organized in 3 chassis, generating up to 108 SD/HD services, broadcasted to 290 outlets throughout the hospital. Each one of these outlets is equipped with a zAs HD receiver.

A T.OX FO link was used to connect the two main buildings ■



DID YOU KNOW..?

Televés has not always been called Televés?

Back in the 50s, when Televés just started to bite, the surname of the three founding partners began with the letter B: enough reason to call the new brand "**ThreeB**". However, the new market they wanted to approach, installation of TV reception systems, did not associate this name with the pretended technological activity.

To this must be added that a new internal organizational restructuring forced a change in the company name.



Without changing much phonetics, the most successful and least disruptive solution was to call the brand "**Televés**": this name definitely seems nearer to a Television concept.

The successful business path born in those years and the quality products and solutions, make Televés a worldwide identified name always in the technological forefront ■

IDEAS



Simultaneous camera powering and visualization via HSeries

Installation of CCTV cameras is characterized by the need of adjusting parameters as orientation, zoom and focus on site, however, it is pretty common that these cannot be adjusted because the overall system is not yet ready.

When using a HSeries meter it's possible to visualize the image via the Audio/Video input and proceed to adjust the camera parameters. Parallel to this, a current injector (ref. 4750) can be used at the coaxial output to power the camera with either 12 or 24 Vdc, via the meter itself.

It is a simple way to prevent the installer from going back on site to tune up the general system ■



Implementation example

Televes manufactures...

$\theta \times 45^\circ (= 360^\circ)$



the manufacturing plant

That Televes has launched thousands of products to markets in the five continents is something that is well known by now. It is no secret that the company manufactures its products in its own facilities, deploying the most advanced technological processes in automated robotic lines. It is also well known that the products carry the Televes seal of approval **European technology made in Europe** which attests to the company's great capacity for industrial investment as a driver for achieving excellence through quality production.

For a technological company, investing in manufacturing means controlling the entire cycle of each product, ensuring the highest possible quality is placed into the market and that a perfect fit to the customer is met.

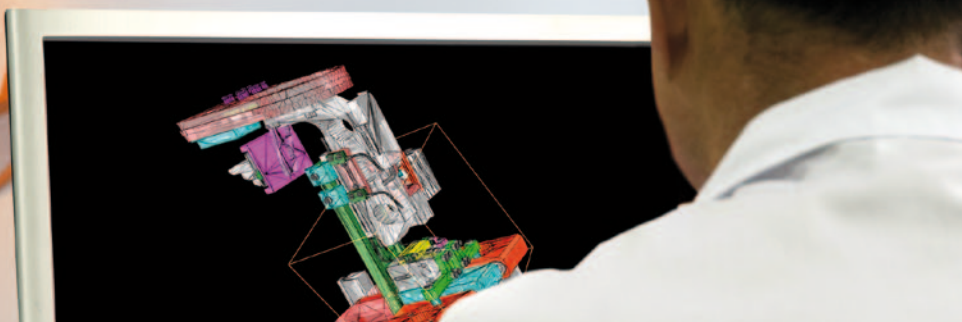
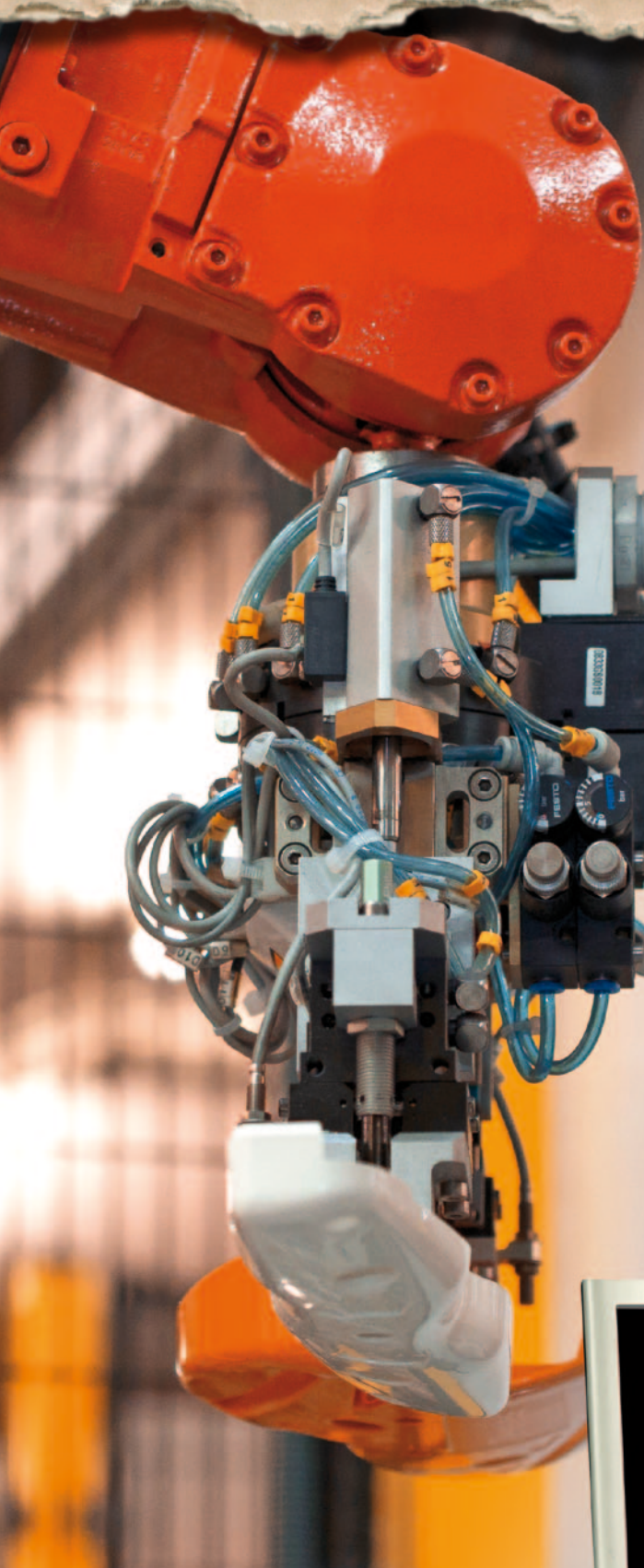
Relying solely on your own processes and not on third party outsourcing is also an invaluable advantage when the sector requires flexibility in supply because of certain peaks in demand, or when a quick development response is needed by a sector under constant evolution in technologies and standards.

All of this is known of Televes, or at least it is easily understood.

What is not so well known, and perhaps more than one could be surprised, is that the passion for manufacturing that sets Televes apart from its competitors, extends beyond the development of the products.

In fact, **Televes also designs and deploys the robotised manufacturing lines** it develops and installs the hardware and software tools that the automated processes utilise to make the products and systems that you find in your Televes catalog.

To make it short,
Televes not only manufactures its products, Televes manufactures the factory ■



rust

is up to you to prevent it



ves

In some cases,
stop watching TV
will be the least of your problems

QSD antenna

An aluminium dish with a LNB support made of zamak

Reinforced hot dip galvanized support.

Stainless steel screws

Approved with the TUV German certification

Awarded in Germany as a satellite dish of reference



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