

informa



Televes certifies commitment to Germany by taking part in ANGA Cable 2011

Televes Corporation made its participation in this year's ANGA Cable fair a clear manifestation of its commitment to Germany and the markets in Central and Eastern Europe. This meeting, fully consolidated as the leading trade fair for Cable, Broadband and Satellite in Europe, took place in Cologne from 3 to 5 May.

Televes Corporation's stand (D21) covered over one hundred square metres, in which it showcased a wide range of specific solutions for the German market. Equipment related to the adjustment of the receiving and distributing facilities, faced with the imminent shut-off of Astra analogue broadcasts, played a prominent role, given the large market share satellite reception enjoys in Germany. The company also presented a new line of dishes whose quality stand out from the rest thanks to a hot dip galvanising process that radically enhances the durability of its components in harsh environment. In addition, Televes showed its solutions for cable television.

The company thus wishes to keep growing in Germany. The importance of this market comes not only from the fact that it is Europe's largest in volume, but also the real benchmark for technology and quality requirements.

Televes Deutschland GmbH, Televes Corporation's subsidiary in Germany, increased its sales by 8% in 2009 and 12% in 2010, and this year the goal is to consolidate this rapid pace of expansion.

Boosting exports

Growing in Germany also implies moving forward in Televes Corporation's internationalisation plans, with the purpose of balancing domestic and international sales 50/50. Exports currently account for 41% of the company's turnover. It has subsidiaries in nine countries (Portugal, France, Germany, the UK, Italy, Poland, the United States, China and the United Arab Emirates) and enjoys commercial presence in over 80.



The growth strategy in Germany includes a transition plan to stop using the Preisner brand, which was the company's first in this market, and use the Televes name on all company products. This plan has been met 70% up to now.

One of the initiatives developed by Televes Corporation to strengthen its corporate image in the German market was Passion for Quality tour, which was launched in the city of Oldenburg last September. From there it travelled through much of German geography.

Avant-garde equipment

Among the Televes products presented at ANGA Cable 2011, we can highlight the following:

u TOX distribution head-ends. The result of Televes engineers' efforts to develop a solution for maximum efficiency in terms of energy consumption per service distributed. They are prepared for the distribution of any of the modulation standards currently available and incorporate innovative features that facilitate the work of professional installers and enable them to carry out fully customised configurations.

u H45 field meter. This revolutionary equipment was Televes' first step in digital processing in portable measuring equipment and has now been fully updated with measurements in DVB-T2, the full interface for measurements on fibre optics and an advanced spectrum option of up to 3 GHz.

u New line of QSD dishes. Antennas for the reception of high quality satellite television signals and prepared to withstand the harshest environmental conditions, thanks to a meticulous hot dip galvanising process for components.

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High Quality Dishes

These new High Quality Offset Antennas, 750 and 850 mm sizes, are made of aluminum and are the solution to the environments in which the corrosive activity is very pronounced. Lower-quality antennas made of steel and with a layer of paint undergo fast mechanical degradation in such areas (the degradation rate depends on the treatment applied to the steel and on the thickness of the paint); this leads to failures in the satellite signal reception and can even pose a hazard if they fall from their support.

The High Quality antennas we offer are featured by:

1. Aluminium dish with LNB holder made of diecast
2. Preassembled support and arm
3. TÜV license validation
4. Robust fixation support. Hot dip galvanized
5. Foldaway support for quick and easy installation
6. Cable fixing inside the LNB arm

On the other hand, the robust structure of the bracket and the fact supplied pre-assembled with no other task but to open the LNB arm which is folded over the dish, ultimately contributes to reducing costs, both assembly and maintenance.

The articulated arm of the LNB is not only easy to install in its final reception position; it also includes an inner fixing system for the coaxial cable through various tabs distributed longitudinally which, once folded over it, avoid it to move, as well as helping to improve the aesthetic of the whole.

These antennas are TÜV approved, undergoing rigorous tests of safety, quality and environmental compatibility to obtain the attesting certificate for our customers.



Taking into account its excellent electrical performance and the already mentioned qualities of mechanical stability, these antennas are especially recommended for all installations of SMATV made in aggressive environmental conditions, and as a replacement product for those users who have had repeated experiences of oxidation in the antennas offered by satellite operators.

Reference	Ø (mm)	Colour	Code
7902	750		RAL F12/0-3
790201			RAL 7035
7903	800		RAL F12/0-3
790301			RAL 7035

FAQ

The importance of the power consumption of DTT receivers

Nowadays, with the crisis hitting us and the rise in energy prices, more and more users take care of the consumption of their appliances, including the DTT adapter. Within the range of DTV receivers that can be found in the market, apart from its technical specifications to receive the TV signal, there are a wide variety noted for its high power consumption.

We took a sample of 4 DTT receivers, and made an assessment of their consumption, considering a very conservative average running time (4.5 hours/day), and the rest of the time in stand-by status (19,5 hours /day).

Taking our zAs HD ref. 5124 as the reference, three others have been analyzed, considering that their low power consumption is advertised by them on their low prize.

The result is:

- u Receiver 1 consumes 6.56 times more than the HD ZAS
- u Receiver 2 consumes twice the HD ZAS
- u Receiver 3 consumes 1.18 times more than the HD ZAS

Summarizing, the electricity costs during the receiver's lifetime are quite more expensive than its purchase price.



From the point of view of efficiency and electricity costs, the zAs HD is your best option



Your pictures



To install a DAT HD Boss antenna on a small eucalyptus and wait for it to grow to get better reception, should not be, presumably, the aim of this installer.

In any case, the installers should already know by now that only the DAT HD Boss antenna is able to receive in the worst conditions, neutralizing the signal fluctuations and becoming independent on the growth of the fixing system.



Real Installations

The latest headends in Mallorca

Our customer INSNET has the courtesy to send us some pictures of the headend installed on the AYA Hotel located in the Playa del Arenal, Palma de Mallorca, a touristic area with intense movement. In this case it is a hotel situated in an area mainly oriented to German tourists.

The old installation has been completely renovated with a headend consisting of 9 DVB-S2-COFDM units of the T-0X range and processors for the 4 DTT multiplex. This corresponds to an offer of 45 TV stations, professionally installed in a 19" rack.

The parabolic dishes belong to our High Quality range of dishes designed for harsh environments as in this case, where its proximity to the sea requires its use, as they are made of alu-



Ideas

The real coverage

The DTT coverage depends directly from the electromagnetic field that covers certain area, but it also depends from the reception system and the receiver installed. The reception quality in a certain area between a DTT PEN receiver and a reception system with external UHF antenna can not be compared. Therefore, the coverage in certain areas depends largely on the quality of reception and tuning system.

For areas of low or good coverage, the antenna DAT HD Boss, ref. 1495, automatically adjusts its signal output to a correct value for the DTT receiver.

Another factor that depends on receiving DTT or not, is the dynamic range of the receiver.

The zAs HD ref. 5124, features an input dynamic range (range of levels from which the recipient can work) between 45 and 90 dBuV, assuring the DTT reception in pretty extreme conditions of signal level. Moreover, field tests have demonstrated the possibility of receiving DTT with significantly lower levels (see figure).



27 dBuV



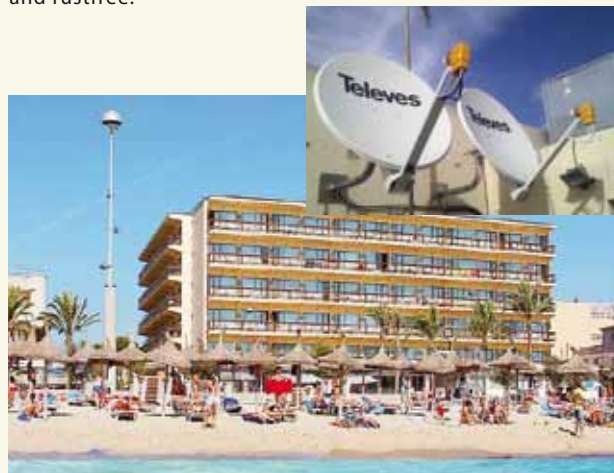
68 dBuV



92 dBuV

In conclusion, in a certain area, it may be impossible to receive the DTT with certain receivers, while with others, it is possible. To determine whether there is really DTT coverage, try with a DAT HD Boss antenna and with a DTT zAs HD receiver according to the figure!. If in these conditions you can not receive DTT, then there is really no coverage in the area.

minum and with galvanized mounting accessories. The arm that holds the LNB enables the passage of the coaxial cable through it, offering a set while aesthetic, sustainable over time and rustfree.





Introduction to Fibre Optics (III)

Most common types of connectors:

Below you will find a short description of the most commonly used connectors; they will be classified according to two basic characteristics:

- u According to its physical structure: ST, SC, FC, LC connectors
- u According to the fibre polishing type: PC, UPC, APC connectors

ST (straight tip)

This type of connector is an AT&T trademark. It features a bayonet mount with a long ferrule (ceramic, metal or plastic) that holds the fiber. They are spring loaded so they must fit perfectly.

When they cause much losses, it has to be separated and bound again.

SC (Straight Connection)

It is a snap-in type connector, very popular due to its excellent performances.

It latches by means of a push-pull action. It also exists in double version.

FC

They are the most popular single-mode connectors.

They are connected by screwing on firmly.

In relation with the FC type it is necessary to take care for the correct alignment between socket and connector.

LC

It is a new type of connector that uses a 1.25 mm ceramic ferrule.

It features a good performance and is ideal for single mode fibre.

Connector SC/APC



Type of connector's polishing

At the end of the fiber some light can be reflected causing a damage or reducing its useful life.

To avoid these problems the fiber is cut in angle thus reducing the reflection.

u PC (Physical Contact) type

When this angle was "handmade" having approximately 30° and featuring 30 dB ORL (optical return loss).

u UPC (Ultra Physical Contact)

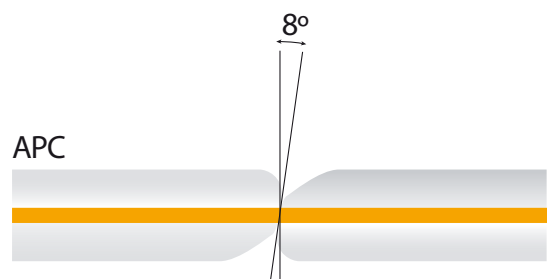
When the cut was polished with a machine obtaining a super/ultra finishing featuring 40/50 dB ORL respectively.

UPC / PC



u APC (Angled Physical Contact)

When more rejection is required this polishing features a 8° angle which guarantees more than 60 dB ORL.



▲ Connector ST



▲ Connector SC



▲ Connector FC



▲ Connector LC