Televes®

A comprehensive manufacturer for the infrastructures of the present and the future

"The technological complexity of today's infrastructures requires a global vision. Professionals demand manufacturers capable of providing cross-disciplinary technological solutions, expert support and a close relationship throughout the entire project cycle."

In telecommunications, every network is already a sum of interconnected technologies. Audiovisual distribution, GPON networks, optical transport, 5G connectivity, monitoring, IoT systems and audiovisual platforms are all part of the same operational reality. In this scenario, the real value for installers and operators lies in having a comprehensive technology partner capable of responding to increasingly complex projects.

This is the one-stop-shop model that Televés promotes today: a European manufacturer with its own design, manufacturing and technological development capabilities, able to offer professionals a unified, coherent and specialised proposal.

The difference goes far beyond the product catalogue. It means **having a single technical and commercial contact to support complete projects,** from signal reception and distribution to high-capacity optical networks, advanced audiovisual solutions or 5G coverage deployments indoors and in low-signal areas.

The integration of radiofrequency, data-network and advanced microelectronics technologies makes it possible to accelerate deployments, reduce complexity and guarantee long-term reliability. An industrial and technological approach focused on solving real market needs and providing increasingly decisive value for the sector: **technological security and trust** ●

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INSIDE TELEVÉS

Iago Dafonte, Sales Area Manager, Televés International

"Designing and manufacturing in Santiago de Compostela gives us a competitive advantage, always one step ahead of the competition"

What does your job involve?

As Area Sales Manager for Televés' international area, I coordinate commercial activity in different markets such as LATAM, Eastern Europe, Turkey and several African countries.

My work consists of analysing each market, defining strategies, detecting opportunities and supporting customers and distributors to strengthen the positioning of our solutions. It is a very dynamic role that combines business development, strategic vision and closeness to the customer.

How long have you been part of the company?

I joined Televés in June 2023. From the very beginning I have had the opportunity to grow professionally and develop in international markets thanks to the team's support and trust.

What is the most satisfying part and the most complex part?

The most satisfying part is seeing an opportunity turn into business and building highly enriching professional relationships in international environments. The most complex part is adapting to the reality of each market, where very different cultural, regulatory and commercial factors come into play.

Which values would you highlight?

I would highlight closeness, technical capability and the commitment of the human team. In addition, designing and manufacturing in Santiago de Compostela allows us to guarantee quality, differentiation and a long-term vision focused on delivering real value to the customer ●

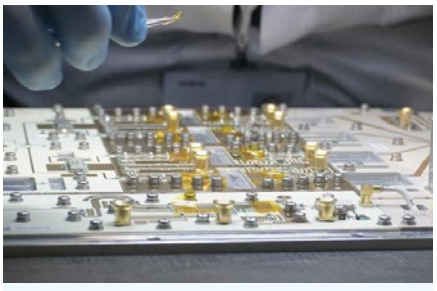
TELEVES CORPORATION

Indra Group and Maxwell Applied Technologies promote new advanced engineering capabilities for defence

"The strategic alliance reinforces the development of critical technologies in radiofrequency and advanced microelectronics for next-generation defence programmes"

Indra Group and Maxwell Applied Tech have reached a strategic agreement to strengthen advanced engineering capabilities aimed at the **Special Modernisation Programmes (PEM) of the Armed Forces**. The collaboration represents a new step in strengthening national technological capabilities in key areas for defence and security.

Through this alliance, **both companies will combine capabilities**



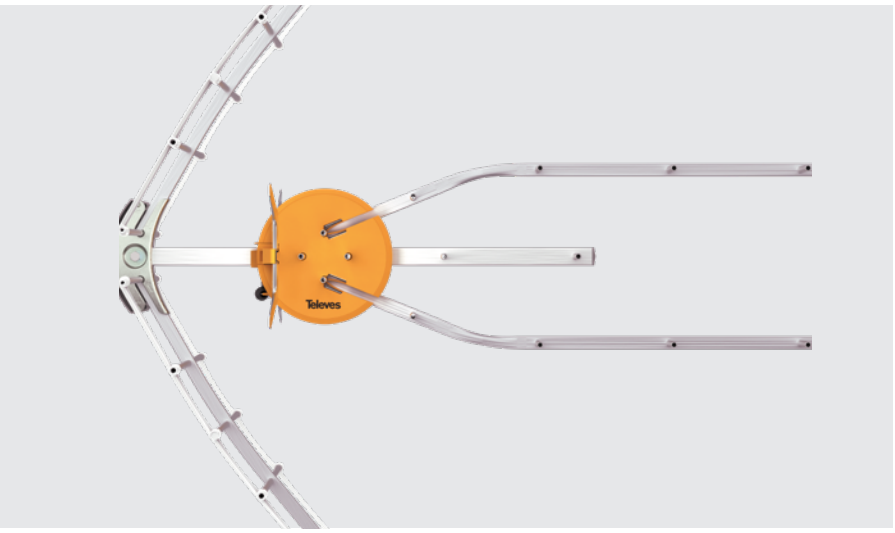
in advanced electronic engineering, radiofrequency and high-performance systems for the development of solutions aimed at critical applications.

Maxwell will contribute its specialisation in RF technologies and advanced microelectronics, including *phased array*, *beamforming* networks, MMICs, advanced packaging and miniaturised solutions for *mission-critical* environments.

The collaboration will boost capabilities associated with radar systems, electronic warfare, SATCOM, counter-UAS and next-generation aerospace and defence platforms, while also consolidating Maxwell's **positioning as a technology partner specialised in high-value critical technologies**.

The agreement also reinforces **both companies' commitment to European technological sovereignty**, advanced industrial development and the consolidation of a national ecosystem capable of responding to the technological and operational challenges of the future ●

A Series: intelligent antennas ready for DVB-T2 television



The new A series, comprising A6, A6 MIX and A9, is a **generation of intelligent antennas designed to meet the requirements of DVB-T2 television and new UHD content**.

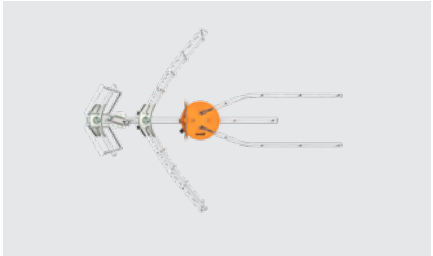
The new range combines adaptive electronics, optimised reception and highly durable mechanics to **improve signal quality from the first reception point**.

The evolution towards DVB-T2 broadcasts creates a more demanding scenario for terrestrial reception. The use of high-density modulations, such as 256-QAM, reduces the distance between symbols and increases sensitivity to noise and interference, making parameters such as MER *(Modulation Error Rate)* decisive for guaranteeing service stability. In this context, reception quality becomes more important than the signal level itself, because **when MER degrades, increasing power through amplification is no longer enough** to maintain stable reception.

To respond to this scenario, the new antennas integrate BOSS Tech technology with a TForce® chip, based on intelligent amplification with a very low noise figure directly at the dipole, the point where the signal retains its highest quality. By amplifying before the signal travels through the coaxial cable, added noise is minimised and **the available MER at reception is significantly improved**, a particularly critical aspect in DVB-T2 broadcasts.

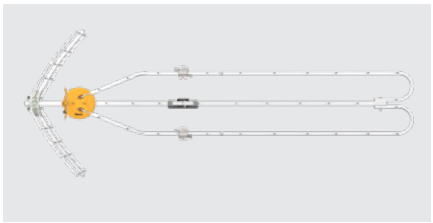
The intelligent system **automatically adjusts gain in real time to always maintain an optimal output level**, adapting to variations caused by distance from the transmitter, weather conditions, terrain or current and future LTE/4G/5G interference. In addition, the high-selectivity SAW filter removes interference even at the upper edge of the TV band, ensuring signal integrity and compliance with RED regulations.

A6 series



The A6 series has been designed as a compact and versatile solution for conventional installations, in both urban and rural environments. It is available in its **A6**version (ref. 14050X) for UHF, and **A6 MIX**(ref. 140501) for combined BIII + UHF reception with independent band regulation via a double TForce® chip, avoiding imbalances between signals. Its mechanical design also enables **tool-free assembly in just 30 seconds for A6 and 1 minute for A6 MIX**.

A9 series



The A9 series (ref. 140901) is aimed at demanding reception scenarios and areas far from the TV transmitter. Thanks to its high directivity and the electromechanical optimisation of the radiating assembly, **it extends the coverage area by up to 35% compared with conventional models**, facilitating the reception of weak signals without compromising quality.

The entire range is manufactured with **high-strength and 100% stainless materials**: aluminium structure, stainless-steel hardware, zamak clamp with anti-corrosion treatment and reinforced ABS plastics with UV protection and resistance to saline environments. The result is a solution designed to **maintain its mechanical and electrical performance for decades** even in adverse environments.

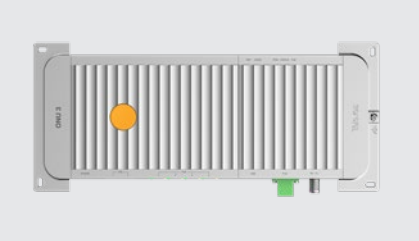
With the new A6 and A9 series, Televés brings its experience in intelligent electronics and reception design to the new DVB-T2 scenario, offering**antennas prepared to maximise the signal quality required by current and future UHD broadcasts**

FREQUENTLY ASKED QUESTIONS

How is PoE power delivery managed in our ONUs?

Our PoE ONUs distribute the available power between their Ethernet ports according to their total capacity and the PoE standard.

The 769530 ONU provides up to 50 W of usable power. Port 1 allows up to 21 W, while ports 2 to 4 offer up to 10 W each. We recommend connecting higher-consumption devices, such as video-surveillance cameras, to port 1. If the total available power is exceeded, the ONU cuts off the power supply and automatically restores it after a few seconds.



The 769532 ONU provides up to 120 W of usable power, offering up to 30 W (Class 4) on each of its four ports. This allows high-consumption devices to be connected to any port without prioritisation.

In both models, part of the power is reserved for the ONU's internal consumption (~10 W).

PoE supply is based on a negotiation process between the device and the ONU. A device may negotiate a higher power class than necessary, which can limit the number of connected devices. In these cases**, we recommend using the higher-capacity ONU to ensure stable operation** ●

FEATURED INSTALLATION

Qasr Al Bahar Residence Abu Dhabi, United Arab Emirates

Known as the "Palace of the Sea", Qasr Al Bahar was the residence of Sheikh Zayed bin Sultan Al Nahyan during the founding years of the United Arab Emirates.

For this historic, high-security enclave, we installed a complete solution based on **IPTV Lite, Headend and IPTV STBs**, designed to provide centralised, stable and

efficient audiovisual distribution across the different areas of the complex.

The implemented infrastructure guarantees **service continuity, optimised content management and a viewing experience** that is consistent in a highly demanding environment ●

TELEVÉS AROUND THE WORLD

AOTEC | Seville 28 and 29 May
At the most relevant operator event, this year Diego Sánchez had the opportunity to explain how Televés is a one-stop-shop manufacturer that enables infrastructure operators to control their traffic and remain competitive.

APD | Zaragoza 7 May
We presented solutions and products with a special focus on: TV Distribution, DataCom, Hospitality and Lighting. This event served as the presentation and starting point for our new brand image.

Agora Tech | Sitges 26 to 28 May
The event brought the hotel sector together with the technology ecosystem. Televés showed how a Televés GPON network infrastructure integrates all the audiovisual services sought by guests, as well as the hotel's digitalised systems ●

How to choose cable managers for wiring a rack

In a rack-based telecommunications installation, proper cable management not only improves the appearance of the cabinet, but also directly affects the efficiency, accessibility and reliability of the infrastructure. Well-organised cabling **facilitates technical interventions, optimises internal ventilation and reduces the risk of errors** during maintenance tasks or future expansions. Cable managers are a key element in any network infrastructure, as they guide and organise cabling inside the rack. Depending on **the distribution of the equipment and the density of the installation**, there are two main cable-management solutions: horizontal and vertical.

Horizontal cable managers organise cabling at the front of the rack, keeping cables visible and easily accessible. They are commonly used between *patch-panels*, switches and network equipment with a high concentration of patch cords, enabling **clear management and quick access** for maintenance or expansion. **Vertical cable managers** route cabling along the sides of the rack, across its full height. **By integrating into the sides, they free up the front of the rack,** improve access to equipment and offer a more visually discreet solution. They are especially recommended in **high-density installations or infrastructures with significant expected growth**. Although both systems fulfil the same function, the choice of one or the other depends on the type of installation and its needs:

Location

- Horizontal: at the front of the rack, between patch panels and switches.
- Vertical: on the sides of the rack, along its full height.

Recommended environments

- Horizontal: small or medium-sized installations, with low or medium cabling density.
- Vertical: large structured installations, with high cabling density.

Compatibility

- Horizontal: compatible with any 19” rack.
- Vertical: compatible with racks with available side space, normally at least 800 mm wide.

Accessibility and maintenance

- Horizontal: direct front access, simple cable management and replacement.
- Vertical: side access, more complex cable management.

Based on the selection criteria above, we define our recommendation on which cable manager is best suited to each installation:

- Horizontal cable managers: recommended for installations where priority is given to **speed of access, ease of installation and cabling organisation by unit (U),**facilitating an orderly visual distribution.
- Vertical cable managers: recommended for installations that require **greater capacity, scalability and advanced cable management**, integrating into the side of the rack, clearing the front space of the equipment and favouring ventilation.

In many professional installations, combining both elements makes it possible to achieve more efficient and scalable cable management.

Growing by committing to high-level design.

Optimised electronic and optical engineering, at the service of TV

OVERLIGHT *SERIES*

Reduce the number of antennas and devices in the installation without compromising terrestrial and satellite TV signal quality.

With the Overlight series of optical transmitters and receivers, you can create a communal TV installation with all services delivered over a single optical fibre.

Thanks to the low losses of fibre and the high splitting ratio, TV services can be supplied to housing developments, hotels and campsites, residential buildings and other FTTx solutions.

TV over a single fibre, terrestrial and satellite

Up to 64 users thanks to its high optical power

Compatible with GPON for agile network integration

ASuite App (Android/iOS) to configure transmitters (Bluetooth®)

Televes