Televes®

QUARTERLY NEWSLETTER

INFO

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Building trust: the value of 30 years certifying our progress

Televes celebrates three decades marked by a steadfast and continuous strategy: **certifying our processes as a guarantee of quality, sustainability, and commitment to excellence**. This effort was recently recognized with a commemorative plaque awarded by AENOR, symbolizing the transformational impact of certifications on our organization and its environment.

Since receiving our first **ISO 9001**certification, which laid the foundation for a robust quality management system, we have expanded our scope to key areas such as environment **ISO 14001**, occupational health and safety **ISO 45001**, energy efficiency **ISO 50001,** and the technical competence of our laboratories **ISO 17025**. These certifications reflect a corporate philosophy that prioritizes technical excellence, sustainability, safety, and innovation.

SUSTAINED CERTIFICATION STRATEGY

Process certification is not just a mark of recognition; it is a **tool that strengthens the trust of our markets and customers.** In a competitive environment, AENOR certifications are more than just a seal of approval; they endorse the quality and reliability of our solutions. These international standards **certify that our products and services meet the highest global standards**, strengthening our position in demanding technology sectors.

Furthermore, this certification strategy promotes continuous improvement, optimizes resources, and guarantees sustainability. For example, ISO 14001 has significantly reduced our environmental impact, while ISO 50001 has promoted the efficient use of energy. In terms of health and safety, ISO 45001 reflects our commitment to the well-being of workers, fostering safer and more productive work environments. In addition, ISO 17025 ensures accuracy in testing and calibration processes, which are fundamental for technological leadership.

A LOOK TOWARDS THE FUTURE

The plaque awarded by AENOR is not only a recognition of our journey, but also an impulse to explore new areas of certification that address the emerging needs of the market. Thirty years later, we reaffirm our commitment to quality and positive impact, with the conviction that certified excellence will remain at the core of our commitment ■

AENOR acknowledges three decades of effort, solidifying Televes as a benchmark of certified excellence.

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THE OPTICAL TRANSPORT AREA CONSOLIDATES A NEW CHAPTER IN OUR HISTORY OF INNOVATION

Our **Optical Transport area was created in 2021**, but what motivated us to make this decision? We are a company with **more than 60 years of leadership in the design, development, and manufacturing of electronic communications infrastructure across Europe**. Therefore, upon recognizing the growing demand for high-capacity, low latency communication and data transmission services, our primary goal was to offer **competitive, value-added solutions** to meet this need of our users.

From the combination of these objectives, together with our **philosophy of in-house design and manufacturing, consolidated throughout our entire history**, the new **DEZA range** was born—a family of advanced optical transport solutions. This range exemplifies how **combining innovation and sustainability can create high-quality products** that meet market demands, particularly for high-capacity, low-latency communication and data transmission services.

DEZA stands out for its bandwidth capacity, ranging from GbEthernet to 800 Gbps, adaptability to various network topologies, low power consumption, and scalable modular design.

ROBUST AND EFFICIENT DESIGN

The DEZA range features **intuitive software and advanced monitoring tools.** Its **low energy consumption** contributes to operational sustainability, achieving maximum optimization to reduce consumption while offering flexible, high-performance solutions.

IN-HOUSE MANUFACTURING AND CUSTOMER ADAPTABILITY

From the conception of the PCBs to the final assembly, the entire **development and production process of these products is carried out by Televes**, ensuring **exceptional quality**. DEZA equipment also allows flexible configurations, supports bi-directional transmissions, and offers advanced diagnostic tools.

FUTURE VISION OF THE OPTICAL TRANSPORT AREA

Our short- to medium-term objective is to **position ourselves in this sector with *alien lambda* solutions** as a means to enhance capacity in existing networks using third-party infrastructure. We aim to adapt new interfaces with higher speed, security, and encryption systems while continuing to develop **value-added services** on the equipment itself to align with market trends.

THE FUTURE OF HOME CARE WITH CARELIFE SOCIOSANITARIO

More than 10,000 households in Galicia will benefit from our **Carelife Sociosanitario** solution. This is possible thanks to a project led by the Xunta de Galicia, which has selected our solution to **ensure the safety, comfort, and monitoring of habits, activity, and health parameters of elderly individuals or those with medical difficulties living alone.**

This project involves the **manufacture of 45,000 devices that combine sophisticated technology with more humane and personalized care.** This marks the beginning of a journey to define a care model that will drive our growth, aligned with **our values of innovation and sustainability**. From design to manufacturing, we have created each device with the **highest standards of quality and efficiency**.

The success of Carelife Sociosanitario is **the result of the collective effort of the professionals** within this company, who, from different areas, have contributed to the development, implementation, and continuous improvement of this solution. With this project, we once again demonstrate our role as **leaders in technological solutions that make a difference in people's lives**

SmartNova Antenna

The automatic antenna for campers who choose to enjoy their time

The NOVA series takes it a step further with the launch of the SmartNova antenna. This antenna is specifically designed **for mobile installations** (caravans, boats...) and allows effortless reception of DTT signals, regardless of how remote the area is. All this is done quickly, without the need to orient the antenna or program it beforehand.

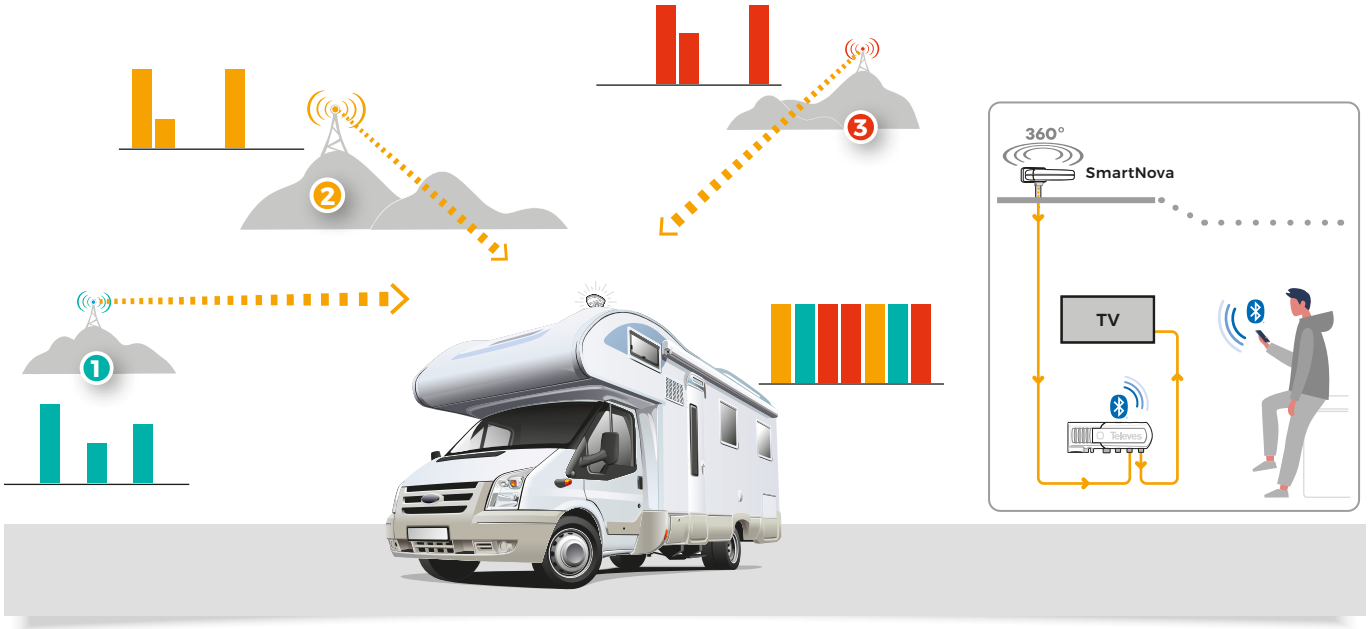
One of the standout features of SmartNova is precisely its **improved omnidirectional reception**, offering higher gain than other omnidirectional antennas on the market. This is made possible by its internal structure of 3 directive sub-antennas arranged at 120º, with each one focusing its energy in a specific direction, thus increasing intensity. The result is effective signal reception from any direction. This functionality is especially useful in mobile installations, as **users won't have to worry about orienting the antenna each time they change location**.

However, the main advantage of this antenna is its automatic configuration. SmartNova simultaneously picks up signals with its three sub-antennas and, through its intelligence, selects the most optimal signal, ensuring the best possible quality at all times. Configuration **takes less than 30 seconds** and is activated through the **ASuite app**. This means that, in the event of vehicle movement, the antenna can be reprogrammed quickly and effortlessly, all from the comfort of a smartphone or tablet.

Power flexibility is another major advantage of SmartNova. Its power source has a jack connector that allows it to be connected to a standard electrical socket, ideal for campsites or ports, or directly to the vehicle's battery for more remote stays.

Finally, NOVA antennas are **robust and weather-resistant,** and blend harmoniously into their environment.

In summary, the SmartNova antenna is a perfect solution for those who want to enjoy DTT anywhere, while exploring the world ■



More information at:
en.televes.com/smartnova

Which Televes Hospitality products require a license and what is its validity?

The following is a summary of the main solutions that require a license and its validity:

1. Interactive Television Solution with Middleware Business. The hardware references 83031801, 83032003, 83032103, 83032203, 83032303 and 83032403 offer a series of references and licenses to integrate interactive television and casting services in hospitality and hotel environments.

Depending on the scenario, 2 types of license will be required:

- **TV Hospitality Compatible**: License reference 830510 valid for life.
- **STB (Set-Top-Box)**: For non-compatible TVs, license ref. 830319, also valid for life.

2. Integration with PMS through Char. Char acts as a gateway between the hotel's PMS and the interactive television and casting equipment. The hardware equipment ref. is 830508 and the license required for each room that requires integration with the PMS is 830509, which is a lifetime license.

3. Direct PMS integration. For PMS, with which there is direct development, no additional hardware is required. The 830501 license is unique, not per TV, and is valid for life.

4. Direct PMS integration with Casting Solution. For casting equipment only, no additional hardware is required. The unique license is 830511 and is valid for life.

5. PMS integration with Telephone Switchboard through Char. Switchboard ref. 770146 and 770147, gateway hardware ref. 830508. The unique license is ref. 830520 and is valid for life.

6. Integration of the Alarm Systems with Interactive Television. Player ref. 830110, connected to each alarm system in the building. The unique license reference is 830506 and is valid for life.

7. Casting Solution. With servers ref. 831410 and 831416 the Chromecasts ref. 831414 are used, which require a license ref. 831412 for each Chromecast and is valid for life. There is an optional license for updates, ref. 831414, which is renewed annually.

8. Cloud Digital Signage Solution. Players ref. 831812, 831815 and 831830 include a two-year license. The license is per player and is renewed annually, with ref. 831811

TELEVES FACILITIES

LIMBURG SENIOR LIVING FACILITY
(LIMBURG AN DER LAHN, GERMANY)

This senior living facility, which consists of **two buildings and 128 rooms**, has become a standout example of innovation in connectivity, thanks to the Televes Overlight solution installed by ABID Elektrotechnik.

The main challenge was the distance between the reception point and the distribution site. To solve this, **an FTTB (*Fiber-To-The-Building*) infrastructure was implemented**, where a satellite dish collects the signal on the roof. This signal is distributed via optical fiber to two technical rooms in each building. From there, it is connected to the rooms via coaxial cable, maximizing efficiency.

The choice of **OverLight demonstrates the benefits of optical fiber** in applications like this, optimizing audiovisual and connectivity services, essential for the comfort of residents

TELEVES IN THE WORLD

NETWORK X
(PARIS, FRANCE)
OCTOBER 8-10

Congratulations to **Ronan Langoisseux**, Director of Televes France, **Guillermo Fernández**, Technical Director of Hosptitality and **Francisco Lema**, Support Engineer, on the exciting launch of the latest **CoaxData series for G.hn networks.**

INDEPENDENT HOTEL SHOW
(LONDON, UNITED KINGDOM)
OCTOBER 15-16

Two intense days of meetings, new leads, and with the company of our colleagues from Televes UK as we continue to grow in the Hospitality market. Thank you **Barrie O'Neill**, **Enrique Domínguez** and **Guillermo Fernández**.

EDIFICA 2024
(SANTIAGO DE CHILE, CHILE)
OCTOBER 15-17

It was an enriching event where we had the opportunity to present our innovations, including the **CIES luminaire**, the **Aurant** platform and the **iTCalc** software, alongside our colleagues **Iago Dafonte and Juan Molezún**

Installing optical fiber: Key points for the prevention of common problems

Calibration Measurement

Optical fiber installation can present challenges. Therefore, we share the key aspects to focus on to avoid setbacks and expedite the process:

1. COMPATIBILITY OF ALL ELEMENTS

The optical fiber and connectors to be installed must be compatible with each other and with the other elements of the installation, for example: the type of fiber (single-mode, multimode), the connectors, and their polishing (SC/APC, FC/PC, etc.). Conducting a thorough pre-installation check significantly reduces the likelihood of *on-site* issues or unwanted delays.

2. PHYSICAL CARE

Fiber cables have a sensitive bend radius, so excessive bending should be avoided. Fortunately, experience becomes an advantage over time, as it allows professionals to gain a better understanding of the materials, work smoothly with their flexibility, and intuitively recognize the limits of cable bending and its consequences.

In addition, when pulling cables, it is recommended to use the Kevlar strands—a traction-resistant material specifically designed for this purpose.

3. FIBER HANDLING AND CLEANING

Dust and dirt are the worst enemies of optical fiber, causing transmission failures even when the fiber is perfectly installed. In addition, a dirty connector transfers dirt to any element it comes into contact with. Therefore, to reduce the risk of failure, avoid touching the connector tips with your hands and clean them with fiber-specific materials before connecting to another fiber or equipment.

Additionally, using high-quality tools specifically designed for working with fiber ensures that each process—from cutting and stripping to fusion splicing—is carried out with precision and care, preventing damage to components.

4. CABLE PROTECTION

Fusion splices are weak points in the fiber network, so it is essential to cover and protect them from any external damage. In adverse conditions, placing the cables in appropriate conduits reduces their exposure to excessive mechanical shocks or stresses that could affect the optical signal and, consequently, the transmission.

5. NETWORK MEASUREMENT AND CERTIFICATION

Once the installation is complete, even if everything appears to be correct, it is essential to perform measurements to certify the network and ensure its operability. By using a light generator or OTDR, and an optical power meter, it will be possible to asses the attenuation losses along the network and verify that they are within normal values.

With this equipment, professionals can certify the fiber network and confirm that it is ready for operation.

Optical fiber provides fast and stable connections, but its installation requires attention to detail. Prevention is key to avoiding unwanted network failures and extending the network's lifespan. **By identifying the critical points and applying these proactive measures, you save resources and avoid problems in the long run** ■

Turn your business' TV cable into a high-speed network

COAXDATA SERIES

with G.hn. technology

No work. Without halting commercial activity.

The CoaxData series transforms your facility's existing coaxial cabling into a 1.7 Gbps Ethernet network, offering transmission rates comparable to fibre optics in installations with up to 64 connection points.
Modernise your business' connectivity offering, while keeping it up and running.

1.7 Gbps network speed	**64 network** connection points	**0 Euro** investment in new cabling	**0 days** of interruption of business activity	**100%** Designed, developed and manufactured by Televes