Televes®

QUARTERLY NEWSLETTER

INFO

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Televes, winner of three international awards for design excellence

At Televes, we continue to strengthen our position as a **leader in design and innovation** in the telecommunications infrastructure sector for buildings and homes. The recent launch of our new generation of products for the distribution of audiovisual services has been an example of this, as confirmed by the prestigious international awards we have received: the **Good Design Award** in the USA, the **Gold German Design Award** in Germany and the **European Product Design Award** in Europe.

These awards recognize our **state-of-the-art, functional and sustainable design**, underlining our commitment to creating **technological solutions that combine innovation and efficiency**, consolidating our image as leaders in the sector.

RECOGNITION

GOOD DESIGN AWARD

Awarded by the Chicago Athenaeum and the European Center for Architecture Art Design and Urban Studies, it highlights the design excellence in our TV distribution range. It also recognizes our ability to innovate and offer products that meet the highest standards of quality and functionality.

GERMAN DESIGN AWARD

Organized by the German Design Council, we were distinguished with the highest award in the category "Communication tools for winners". This award, considered one of the most demanding in Europe, values design excellence, its impact on the industry and the ability to define global trends.

EUROPEAN PRODUCT DESIGN AWARD

Regulated by Farmani Group, one of the leading organizations promoting photography, design and architecture worldwide, we are awarded in the "Other consumer electronics designs" category, recognizing our balance between advanced technology and intuitive, visually appealing design.

These awards reinforce our prestige as a **pioneering brand in design and innovation**, consolidating our **commitment to excellence** in creating products that make a difference in the telecommunications industry ■

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MEETING POINT

March 3-6	**Mobile World Congress** Barcelona (Spain)
April 5-9	**NAB Show** Las Vegas (Nevada - USA)

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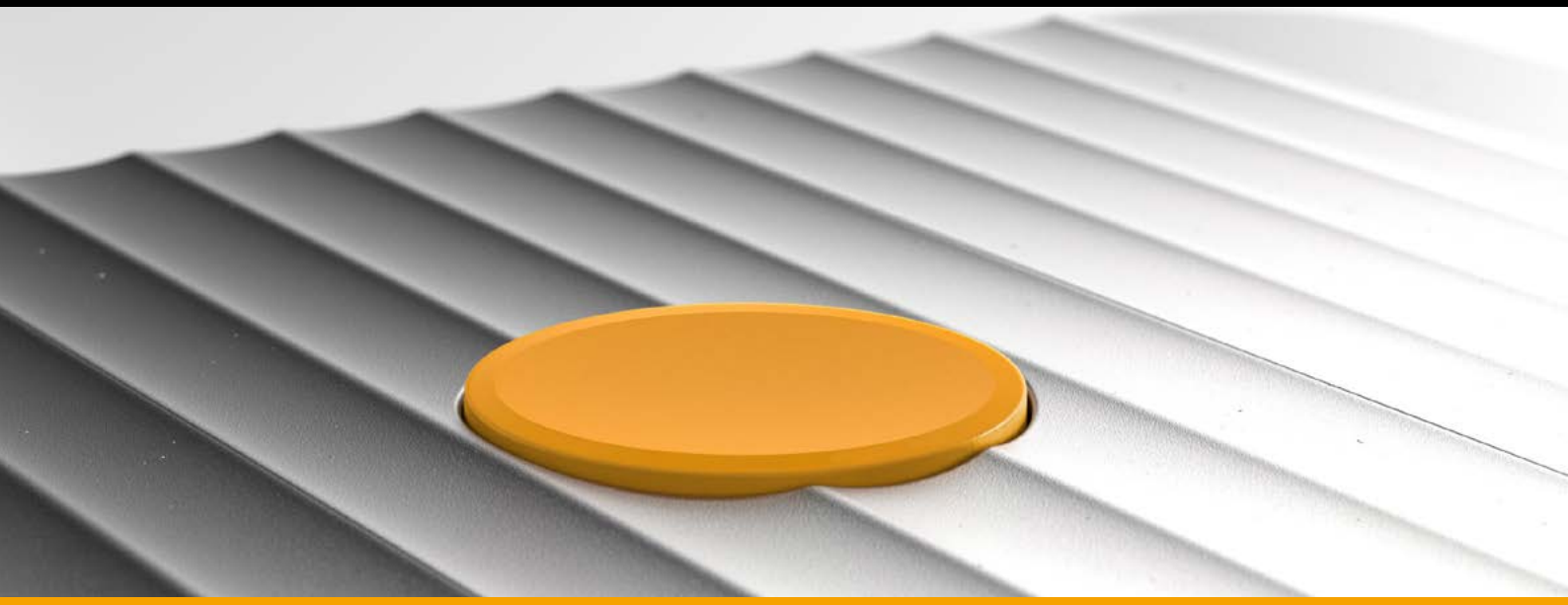


INNOVATION, DESIGN AND MODULARITY, THE VALUES THAT HAVE MADE US SHINE

Design transcends aesthetics, it represents functionality, identity and a vision of the future. For this reason, at Televes we are focused on offering **products that integrate an innovative modular design and a distinctive visual language**, and this has been recognized internationally with three prestigious awards: the **Good Design Award**, the **Gold German Design Award** and the **European Product Design Award**.

One of the foundations of this success is our focus on **modularity**, which optimizes in-house manufacturing and allows us to offer **flexible and adaptable solutions**. This strategy ensures consistency across the entire product range, thus providing a **uniform and efficient experience**.

TELEVES DESIGN LANGUAGE

Our language is characterized by the **harmony between defined and soft shapes**, achieving the **perfect balance between robustness and sophistication**. This approach not only represents our legacy and evolution as a brand, but also positions us at the forefront of technological innovation.

The emblematic "**orange heart**" on each device symbolizes the essence that distinguishes us, the **fusion of tradition and innovation** to offer high quality solutions. This visual element reinforces our brand identity and **ensures consistency across our entire** product **range**.

A RECOGNITION OF EXCELLENCE

The design of our new generation of products for the distribution of audiovisual services in buildings and homes**reflects our commitment to excellence**. We respond to market demands and anticipate the future of telecommunications, offering **products that combine advanced technology, intelligent design and superior functionality**. The prestigious international awards we have received endorse our vision and consolidate our position as a **leader in the technological and aesthetic evolution of the electronic communications infrastructure sector**

AVANT 12 programmable amplifier unit

With an unprecedented level of output and wireless programming

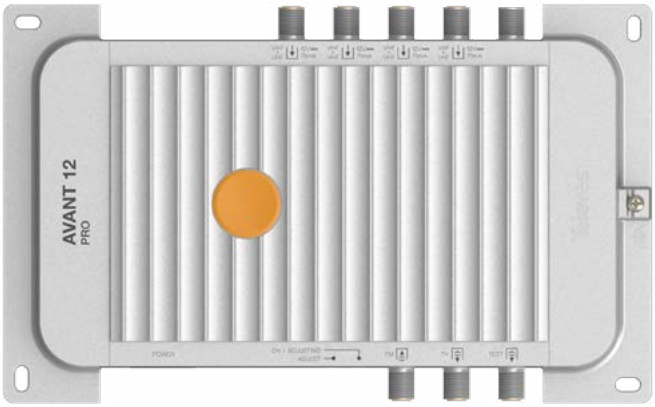
The AVANT series of programmable power amplifiers has always been characterized by its constant technological evolution to keep pace with the market. The change from analog to digital TV, the broadcasting of high definition signals or the appearance of Digital Dividends are some of the challenges that have been successfully overcome. The new **AVANT 12** challenges the limits once again, offering new features focused on **improving the installer's experience**.

From an unprecedented level of output to wireless programming designed for the most demanding users, this control panel is here to make collective installations easier, faster and more efficient, even in the most technically complex scenarios.

The main novelty of this series is the substantial increase of the output voltage, thanks to the technological advance in its integrated microelectronics. With up to 128dBµV*, AVANT 12 is perfect for any type of installation, making the difference in the most challenging large collectives.

With an even more compact size (196 x 122 x 43 mm) and less than 1 kg. in weight, the aesthetics and mechanics of this series break radically with the previous lines. A power plant that is part of a new generation of products whose design is based on two key concepts: modularity and design language, and which has been awarded three prestigious international prizes.

Developed with the installer in mind, programming through the free ASuite application has never been easier. The professional can connect to the control panel via **Bluetooth® pairing, from their own smartphone or tablet, either Android (Google) or iOS (Apple)**, wirelessly and without restrictions. In addition, the ASuite offers a choice of two different programming modes: **an automatic mode**, in which **the control panel configures itself in less than a minute**, based on an intelligent algorithm for selecting the best channels, or **advanced programming**, in which **it is the professional who chooses the channels and defines all the technical parameters**



required by the installation. In any case, its user-friendly and intuitive interface assists the professional and offers some administrative functions to improve the field experience, such as saving and cloning schedules, or generating PDF reports with the result of the installation.

In addition, the AVANT 12 offers 32 individually programmable VHF/UHF digital filters, even on adjacent channels, thanks to its high selectivity. Gain regulation is automatic (CAG) and independent per filter, and can also perform extra fine-tuning of the output level. Finally, its digital processing allows the user to shift the frequency of the channels to obtain an output channelization different from the input channelization.

Within this series, **there are 4 slightly different models, depending on the type of installation and the number of functionalities offered**. From stations with or without IF input for the deployment of satellite signal combined with terrestrial signal, to PRO models with additional functionalities, especially indicated for users looking for extra simplicity and agility

* *128 dBµV according to EN50083, equivalent to 124 dBµV according to DIN45004B. Up to 118 dBµV programmable output level.*

Don't miss it!

ASuite constantly updated for new products

The ASuite mobile application is constantly updated to be compatible with the latest products it manages and programs, such as the recently launched **SmartNova antenna**, or the new range of **AVANT 12** central amplifiers. With each update, we are always looking to offer the best possible user experience, and that is why the configuration of these new products is done **wirelessly**, via Bluetooth® connection, without cables, for greater convenience.

The application is available **free of charge for Android and** now also **for iOS** (Apple). It allows a wide range of functionalities to be launched, depending on the product and model to be managed:

- Programming and adjustment of programmable filters
- Autoprogramming and autotuning
- Antenna feed management
- Monitoring and displacement of output channels
- Cloning of configurations for similar installations

Find out more details about the functionalities at:

Available on the Google Play | Download on the App Store

en.televes.com/asuite

Launching fibers what are they used for?

Launching fiber (ref. 23619x / 23099x) with case and OTDR Basic (ref. 598001)

A launch fiber is a **length of connectorized optical fiber that is used with the measurement and testing equipment in the certification testing** of an installation.

These fibers are indispensable for optical measurements with an OTDR, mainly to correct the dead zones of the reflectometer, thus avoiding unwanted effects on the device.

The dead zone of an OTDR is the minimum distance required to detect events (connectors, fiber breaks, distribution elements, etc.) in an optical installation. **Without a launch fiber, if there were two events close to each other but separated by a distance less than the dead zone, the OTDR would not be able to detect or measure them**.

In order to measure any device present in an installation, our range of launch fibers includes **different combinations between polished types (APC or UPC) and connectors (SC or LC), and also different types of fiber, multimode (50/125 MM) and singlemode (9/125 SM)**, the latter of high quality G.657, which allows to realize reduced bending radii, typical in these testing scenarios.

Since they are fibers in constant use and transport in the facilities, they usually stand out for several useful characteristics to prevent their deterioration and facilitate their handling. Thus, these fibers are armored, with protective caps attached to the fiber to prevent loss, and are supplied on spools of manageable length and with a compact zippered transport box. In addition, they include a technical sheet specifying **all relevant technical data and parameters to identify and trace the material used in the inspections**: date, fiber type, typical losses, wavelengths, or its associated serial number, among others ■

TELEVES FACILITIES

HOTEL BERGLÄSSIG
(BODENMAIS - BAYERN, GERMANY)

This quiet 4-star hotel in lower Bavaria enjoys a natural environment that makes it a tourist attraction in summer and winter. It has 88 rooms and in 2024 undertook a modernization project to be able to offer Casting services without changing its coaxial cabling.

Solution with CoaxData WiFi

Implemented by IN4ME, under the leadership of its CTO, Christopher Nord and our engineers with Christian Hartmann and Francisco Lema, a node was deployed in each room and ArantiaCast was implemented without structural changes, even with the added challenge of the lack of prior documentation of existing cabling and devices.

The end result is that guests now enjoy a high-speed, reliable and satisfactory connection and the hotel management has a perfectly ordered and documented network ■

CES
(LAS VEGAS, USA)
7 - 11 OF JANUARY

Televes continues to advance in its consolidation as a reference brand in the distribution of TV services in this country and once again this year we were able to present our full range of products for telecommunications, in this edition from the "**wall of fame**" **in the stand of the ATSC** (Advanced Television Systems Committee), a distinguished and prominent space from where we could highlight the acclaimed design of the new CoaxData, as well as the Ellipse antenna, the AVANT X central, the SmartKom amplifier and the MOSAIQ6 and H30 field meters.

ISE 2025
(BARCELONA, CATALONIA)
4 - 7 OF FEBRUARY

We repeated our presence with a large booth where we were able to showcase the latest developments in the Hospitality sector, including the **launch of our new ONT**, as well as advances in interactive IPTV and Casting services over GPON networks. Of course, a prominent place was reserved for **our internationally award-winning CoaxData for G.hn networks**.

The main attraction was the spectacular display of an immersive LED screen where visitors seemed to be able to virtually enter and be transported to our manufacturing facilities in Santiago de Compostela (Galicia) ■

What are the steps for the implementation of a CoaxData system?

Our CoaxData G.hn solution makes it possible to exploit the existing coaxial infrastructure to turn it into a high-speed broadband network. This deployment can be done while minimizing the investment and minimizing the inconvenience to the users of the building where it is installed.

In order to successfully deploy the solution, a prior analysis of the project requirements must be made **a prior analysis of the project requirements, taking into account the following parameters** the following parameters must be taken into account:

- **The maximum attenuation between the master and the nodes must be 70 dB maximum**. This would be equivalent to 1.8 km in a coaxial cable; however, it is necessary to consider the effect on attenuation of passive elements (such as splitters, distributors and jacks), and active elements (such as line amplifiers) installed. If there are in-line amplifiers without passive return channel (1 to 200 MHz), they must be bypassed using diplexer filters (ref. 769223).

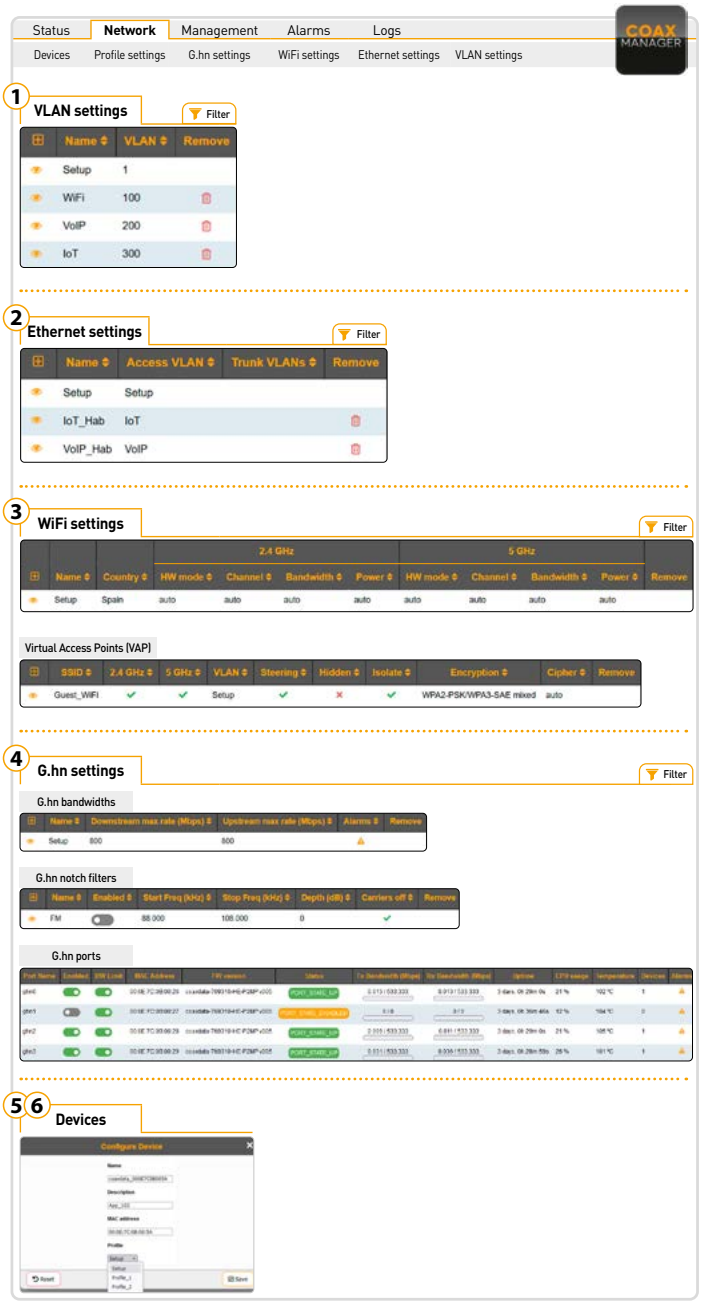
  We recommend using our CoaxManager application, to check the coax status, as it only needs one master and one node to measure the link quality (SNR) at the frequencies used by the CoaxData (5 to 200 MHz).
- **Each master can manage a maximum of 64 nodes**. If the number of connection points required exceeds 64, it will be necessary to increase the number of masters and isolate the coaxial networks.

Once it has been confirmed that the physical characteristics of the network are adequate, we must proceed to the configuration of the equipment and services to be deployed over the network. These services could be, among others, for example: WiFi (Internet access), VoIP (Telephony) and IoT (Internet of Things). To do this we must create a configuration profile that will be assigned to the nodes connected in the network. The necessary steps would be:

1. **Create VLANs**, generally one per service to be deployed.
2. **Configure Ethernet ports in the nodes** (1 or 2 ports depending on the node model: ref. 769320 or 769321). In this example, with node 769321, we configure one port for VoIP and the other for IoT.
3. **Configure the WiFi (if it is one of the services)**:
   - WiFi Settings: channel parameters, power, country, etc.
   - Virtual Access Points: parameters of SSID, password, encryption, etc.
4. **Configure the G.hnparameters**:
   - Upstream and downstream bandwidth limit per node.
   - Frequency filtering (optional), e.g. to avoid interference with bands present in the coaxial network such as FM. System performance will be reduced the more frequencies that need to be filtered.
   - Deactivate or activate the 4 G.hn ports of the master. We recommend disabling those ports that are not going to be used. Thus, we only need 16 nodes, it would be enough to have one active port (16 nodes per port).
5. **Create the profile (or several profiles)** based on the previously defined characteristics.
6. **Assign the created profile (or profiles)** to the different nodes. A node can only have a single profile, but in the same network, nodes with different assigned profiles can be combined.

In this way, we will have our nodes configured and the network ready. In addition, changes to any profile made later will be automatically applied to the nodes that have that profile assigned to them, optimizing maintenance and saving configuration time

CoaxManager application



If you have any doubts about whether this solution is suitable for your project, please contact us and our team will advise you without obligation:

presales.hospitality@televes.com

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OLT512EVO

Uniquely
suited to the Hospitality world

Designed specifically for the realities of the hospitality industry,
this OLT meets today's communication and entertainment demands:

more services at higher speeds

Up to 16 services per room with customisable bandwidth

Advanced features, tailored for industry professionals,
streamline the implementation, management and maintenance of GPON infrastructure.

EFFICIENT CONFIGURATION

Define profiles and provide services by groups of rooms.

CENTRALISED MANAGEMENT

Mass configure multiple ONUs / ONTs from the OLT

FLEXIBLE INSTALLATION

Freely exchange and install ONTs in rooms independently of the PON