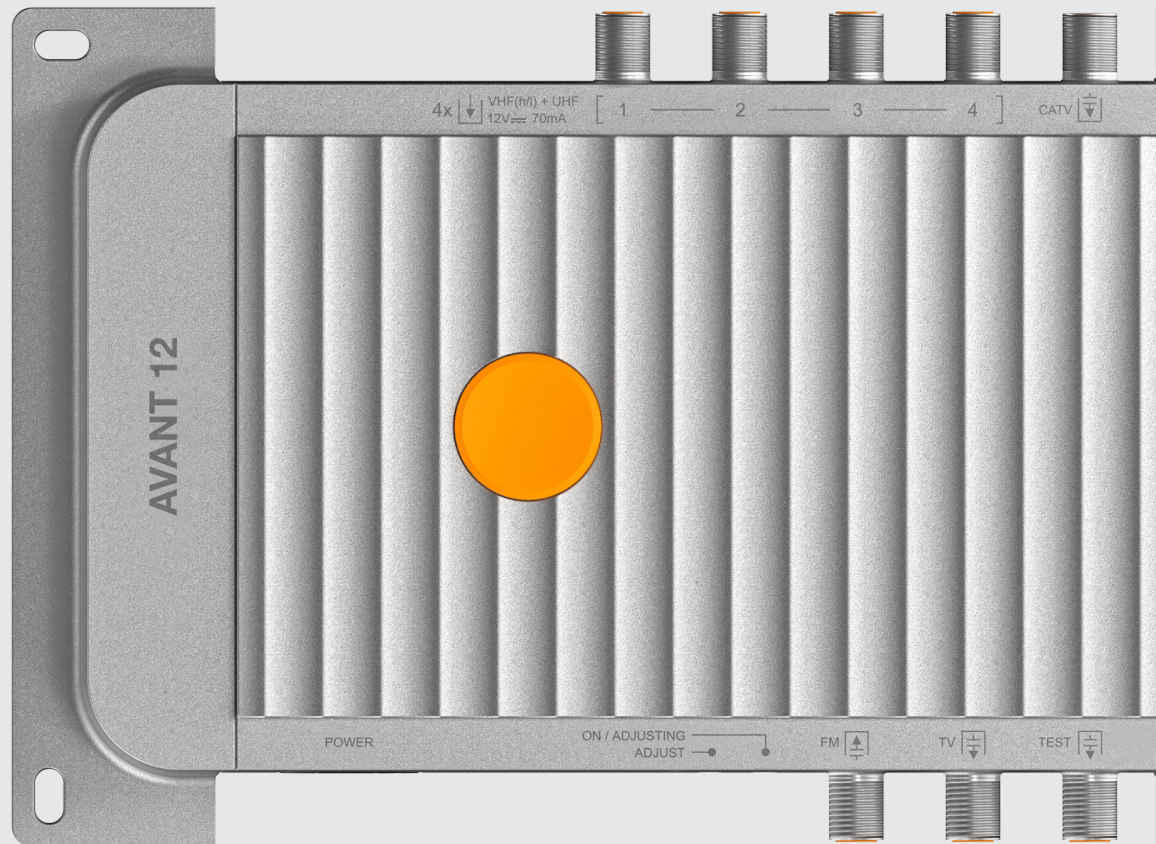




AVANT 12

Unprecedented output level
to reach places others cannot

Multi-input programmable
amplifier featuring 32 digital
filters for digital terrestrial
television distribution.



Programmable amplification that evolves with the market



1998 Avant

2002 Avant 5

2009 Avant HD

2014 Avant 7

2016 Avant 9

2020 Avant X

2025 Avant 12

Programmable amplifier units provide complete control over the acquisition and distribution of television signals in both residential and commercial buildings.

Their main function is to filter the desired channels received by different OTA antennas across various markets, then amplify those signals to ensure they reach all end points of the system with balanced levels.

The new Avant 12 raises the bar once again, introducing features that improve the installer's experience. **With an unmatched output level of up to 66 dBmV and wireless programming capabilities, this unit makes shared installations easier, faster, and more efficient, even in the most demanding conditions.**

100% Televes philosophy: fully designed, developed, and manufactured in our state-of-the-art, robotized facilities.

This unit is part of a new **generation of award-winning products**, recognized with several prestigious international awards, highlighting its innovative design based on two key concepts: modularity and design language.



reddot winner 2025

Avant 12 at a glance



Avant 12 is a multi-input amplifier designed to filter individual channels received through four full-band OTA inputs. It features a total of 32 digital filters, enabling precise amplification and optimal signal balancing across inputs and channels. This makes it suitable for all types of installations, from single-family homes to large commercial projects, **with a high maximum output level of up to 66 dBmV that ensures strong performance even in the most demanding scenarios.**

The unit also includes automatic LTE filtering, intelligently adapting its configuration to block signals above channel 36 or 51. This

effectively eliminates interference from 4G and 5G cellular networks without manual intervention.

Compatible with ISDB-Tb, ATSC, DVB-T/T2, and NTSC standards, the unit features six inputs: four dedicated to OTA channel filtering in the UHF and Low/High VHF bands, one for FM radio signals, and one extended-range CATV pass-through input. This configuration allows filtered OTA channels to be combined with signals from a cable distribution system.

Configuration is done wirelessly via Bluetooth®, using the ASuite app on a smartphone or tablet (Android or iOS).

Users can choose between automatic programming, where the device assigns filters and optimizes levels on its own, **or advanced programming,** where the professional sets filters and defines parameters manually. Both methods can also be combined—for example, starting with automatic programming and then fine-tuning settings as needed. This approach streamlines the process while still allowing the installer to deliver a precise, customized result.



Features that make the difference

Up to 32 individually programmable filters

With with digital filtering for each channel, including adjacent channels.

High-selectivity VHF/UHF digital filters

With more than 30 dB rejection at ± 1 MHz.

Digital channel processing.

Ensures perfectly balanced signal levels at the output.

Automatic Gain Control (AGC) per filter

With fine adjustment of output levels available after automatic balancing.

TForce technology:

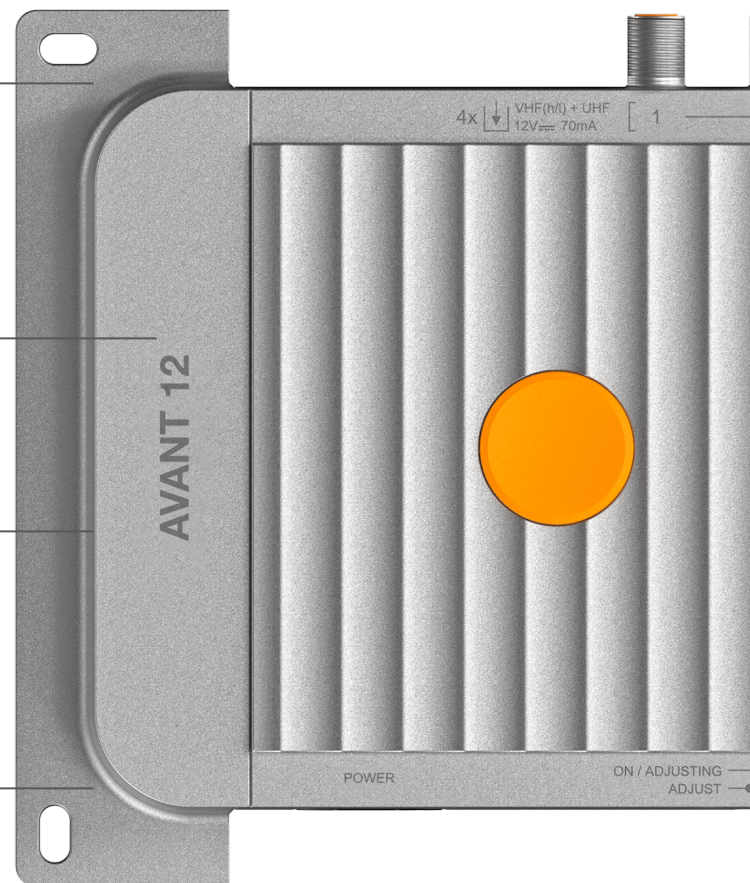
Keeps terrestrial signal levels stable and automatically adjusted to the optimal value.

High output level supports coverage for a large number of end users.

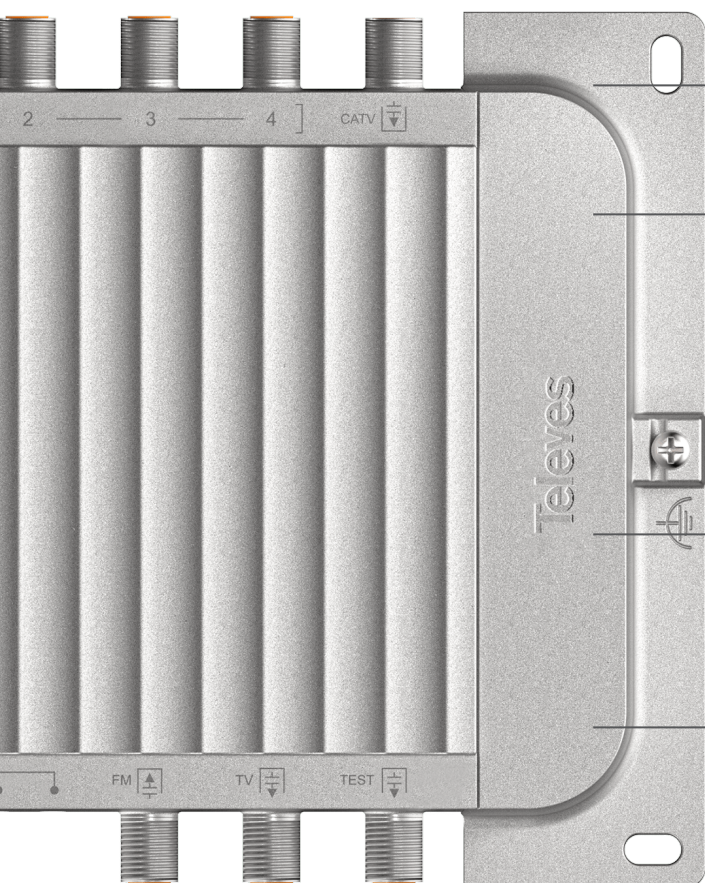
Up to 66 dBmV (EN50083) or 62 dBmV (DIN45004B).

CATV signals

Can be fed through the dedicated input to be mixed with the filtered OTA channels.



Full-size image
7.91 × 4.72 × 1.65 in, 2.04 lb



Amplification and balancing of all signals for optimal performance.

SAW (Surface Acoustic Wave)

Filter automatically rejects 4G/5G signals from channel 36 or 51 onwards, providing excellent selectivity and stability.

The four antenna inputs can provide power to activate external preamplifiers and active antennas

When required.

High-shielding Zamak chassis

Protects against electromagnetic interference.

ASuite enables wireless management of the device via Bluetooth®, from a smartphone or tablet (Android/iOS).

It offers two programming modes:

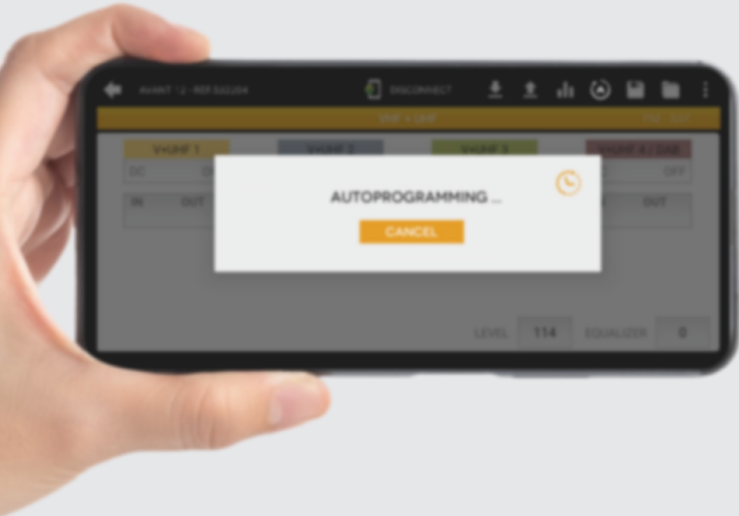
- **Automatic programming:** The unit automatically assigns filters, adjusts channel levels, and powers up the antenna input when needed.
- **Advanced programming:** The installer has full control over all configuration parameters and performs the programming manually.

No wires, no limits:

ASuite via Bluetooth®

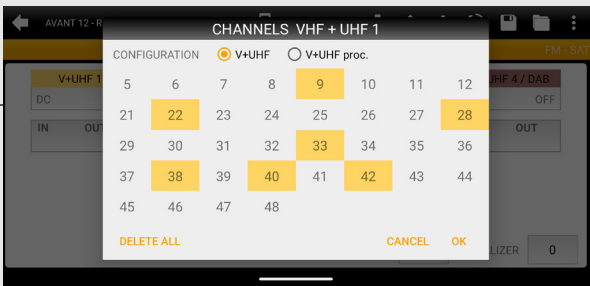
ASuite is a mobile app that lets you easily and intuitively manage and configure the unit during installation using your smartphone or tablet through a wireless Bluetooth® connection. This makes setup completely cable-free.

ASuite is available for free on both Android and iOS and offers a wide range of features designed to maximize the unit's potential:



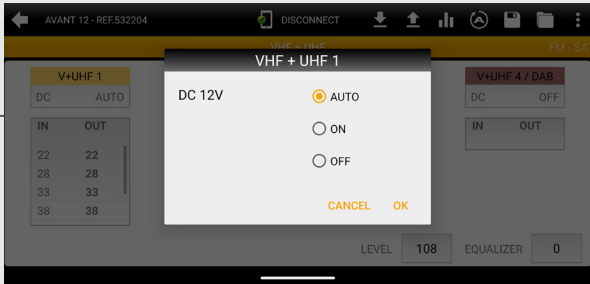
Programming of Channel Filters

Select the desired channels to be received from each input, assigning a filter to each, up to a maximum of 32 filters in total. Additionally, the selected channels can be processed to shift their output frequencies to new locations.



Antenna Power Activation

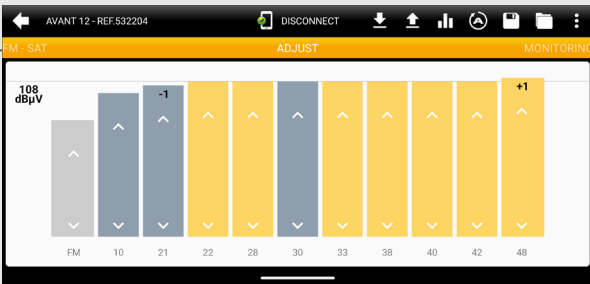
The Avant 12 can provide voltage and current to each output separately to power connected antennas or preamplifiers when required.

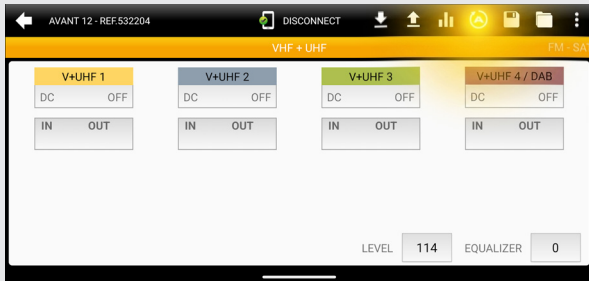


Auto-balancing of Channel Levels

The unit adjust the signal level of each filter, extracting the maximum possible level and balancing all filtered channels to prevent signal fluctuations.

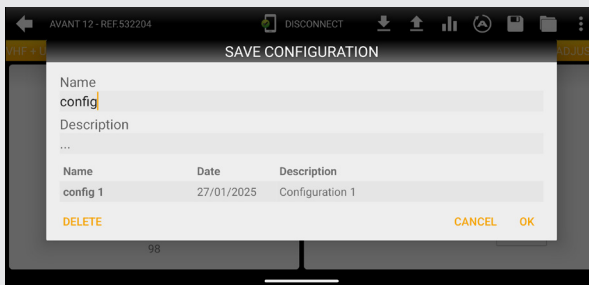
After the automatic adjustment, ASuite allows manual fine-tuning of ± 3 dB independently for each filter, enabling precise optimization.





Self-scan and Autoprogramming

The unit automatically processes input channels, selects the viable ones, assigns filters, and performs auto-balancing to equalize signal levels across channels. **This complete process takes less than one minute.**



Configuration Cloning

ASuite allows users to create configurations without being connected to the unit. These configurations can be saved and loaded later during installation, saving valuable on-site time for professionals.

Detailed technical information

Reference		AVANT 12 / 532280				
Bands		VHF+UHF			FM	CATV
No. of inputs		4			1	1
Frequency range	MHz	54-88	174-216	470-608/698	87-108	54-1218
No. of filters		32			-	-
Number of channels per filter		1			-	-
Max. gain	dB	75	75	78	30	-
Gain regulation	dB	AGC			0-25/OFF	0-45/OFF
Manual adjustment after autoregulation	dB	±3			±5	-
Slope regulation	dB	0-8			-	0-20
Recommended input level	dBmV	-20 ... 40			15-40	-
Output level	dBmV	59* 63**	59* 63**	62* 66**	52* 56**	-
Programmed output level	dBmV	27-55	27-55	30-58	20-45	-
Noise figure	dB	9	7	6	-	8
Selectivity	dB	>50*** (@±6MHz)			>20 (@±20MHz)	-
Power supply per input	Vdc	12 (AUTO/ON/OFF)			-	-
Max. current per input	mA	70			-	-
Mains voltage/frequency	Vac/Hz	108-254 / 50-60				
Total consumption	mA	235				
	W	14				
Protection index	IP	20				
Operating temperature	°F	23 ... 113				
Dimensions	in	7.91 × 4.72 × 1.65				
Weight	lb	2.04				

(*) DIN45004B (**) EN50083 IMD3 2Ch -35dB (***) >30dB (@±1MHz)



Master Antenna System for OTA Signal Reception

This MDU is equipped with multiple **terrestrial antennas** to receive **signals from different directions and distances**. It also features an omnidirectional FM radio antenna. The Avant 12 amplifier is installed immediately after the receiving antennas and programmed to receive,

filter, adjust, and combine the signals from all antennas into a single cable for distribution.

The output from the Avant 12 feeds into the MDU's main trunk line through a single coaxial cable. From there, the processed and amplified TV signal is distributed to all units.

