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> [Televes 531983 SmartKom Intelligent Signal Combiner and Amplifier User Manual](#)

Televes 531983

Televes SmartKom Intelligent Signal Combiner and Amplifier (Model 531983)

User Manual

INTRODUCTION

The Televes SmartKom 531983 is an intelligent signal combiner and amplifier designed to optimize over-the-air (OTA) television reception. This device addresses challenges associated with receiving signals from multiple broadcast directions and managing uneven channel levels. It integrates signals from up to three antennas, filters each channel individually, and balances output levels for consistent reception.

The SmartKom features 32 per-channel filters, Bluetooth app control for advanced configuration, and is compatible with ATSC 3.0 (NextGen TV) and 4K broadcasts. It provides a single, clean output for whole-home distribution or small commercial applications.

SETUP

What's in the Box

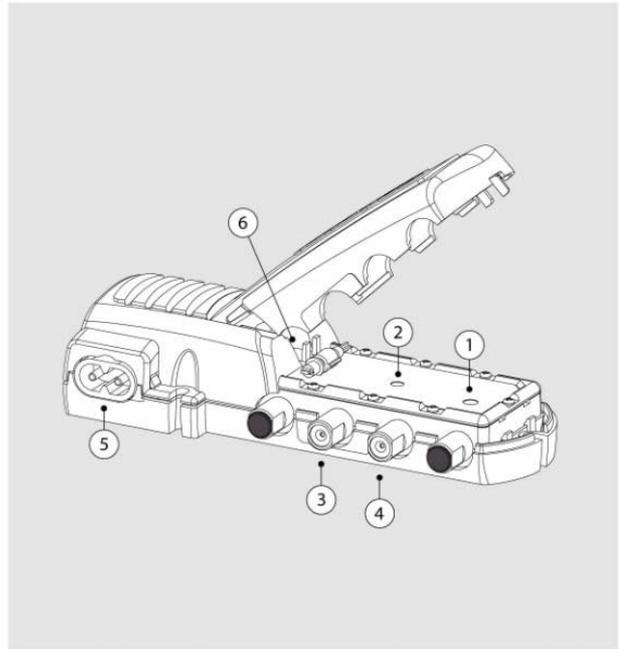
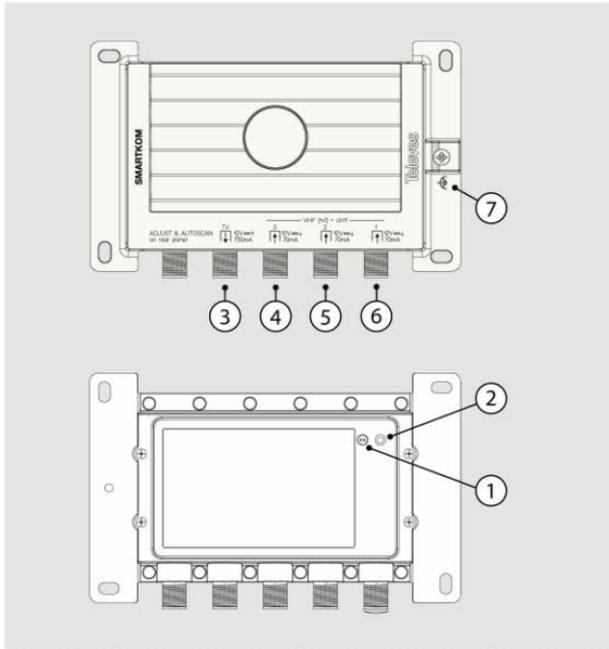
- SmartKom Unit
- Power Supply Controller
- Coaxial Cable
- Weather Boots
- Connectors

Mounting

The SmartKom unit can be mounted outdoors on a mast using its weather-resistant Zamak and ABS enclosure, or indoors on a wall. Select a location that allows for easy connection to your antennas and the power supply.

Connections

Connect up to three antennas to the designated input ports on the SmartKom unit. The unit is powered over the same coaxial cable that carries the signal from the SmartKom to the included power supply controller. The power supply controller then connects to your television or distribution system.



SMARTKOM MAST AMPLIFIER

- ① LED power on / Adjust / Scan
- ② Readjust / Autoscan button
- ③ Output + DC Input
- ④ Input 3 VHF low/VHF high/UHF + DC Output
- ⑤ Input 2 VHF low/VHF high/UHF + DC Output
- ⑥ Input 1 VHF low/VHF high/UHF + DC Output
- ⑦ Ground connection

POWER SUPPLY UNIT

- ① LED Adjust / Scan
- ② Adjust/Automatic scan button
- ③ Input + DC Output
- ④ Output
- ⑤ Power 110 - 120 Vac
- ⑥ P.S.U. status LED

Configuration LED

SCAN		Searching for channels		SLOW BLINK
ADJUST		Adjusting		FAST BLINK
ON		Switched on		ON

Status LED PSU

	Short circuit or overconsumption at input port (3)		SLOW BLINK
	ON		ON

Figure 1: SmartKom Mast Amplifier and Power Supply Unit Diagram. This comprehensive diagram identifies all key components of both the SmartKom Mast Amplifier and its Power Supply Unit. It labels the antenna inputs, output, auto-scan button, and provides a guide to the LED indicators for configuration and status.

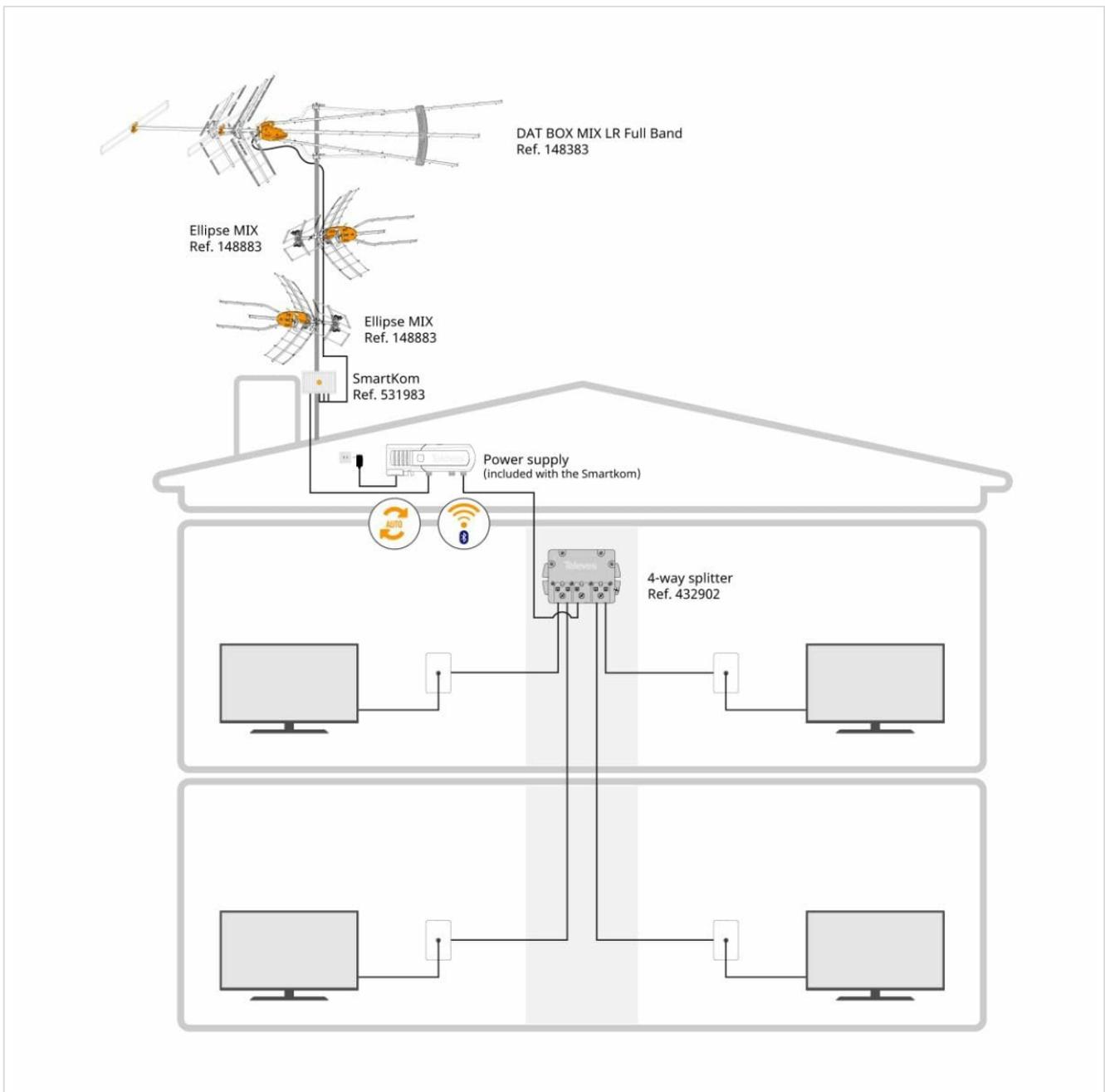


Figure 2: Typical Installation Diagram. An illustrative diagram demonstrating a common installation scenario for the SmartKom. It shows how multiple antennas are connected to the SmartKom, which then feeds a single signal to a power supply, a splitter, and finally to multiple televisions within a home.

Initial Configuration (Auto-Scan)

1. Ensure all antennas are connected and the power supply is active.
2. Press and hold the auto-scan button on the SmartKom unit for approximately 5 seconds.
3. The SmartKom will automatically scan all inputs, identify available channels, apply filtering, and balance the signal levels. It also provides power to compatible Televes antennas or preamplifiers.

Advanced Configuration (ASuite App)

For detailed control and fine-tuning, download the free ASuite app (available for iOS and Android devices). The app connects wirelessly via Bluetooth, allowing you to select specific channels per input and adjust individual channel levels from the ground.

OPERATING INSTRUCTIONS

Signal Processing

The SmartKom's 32 programmable digital filters operate on a channel-by-channel basis with a 60 dB dynamic range. Each channel is individually amplified and balanced to a consistent output level, regardless of the incoming signal strength. This process prevents strong channels from overpowering weaker ones.

Multi-Antenna Operation

When multiple antennas are connected, the SmartKom individually filters each channel from each antenna input, rejects off-axis contributions, and adjusts each channel to the same output level. This delivers a single, balanced, and interference-free signal, making all channels from all directions available simultaneously.

LTE/5G Filtering

The unit includes built-in LTE and 5G cell signal filtering (above 608 MHz) to block common sources of OTA interference and overload, ensuring a cleaner signal.

LED Indicators

The SmartKom and its Power Supply Unit feature LED indicators to provide status information:

Configuration LED Status (SmartKom)

Status	Indication	LED Behavior
SCAN	Searching for channels	SLOW BLINK
ADJUST	Adjusting	FAST BLINK
ON	Switched on	ON

Status LED PSU (Power Supply Unit)

Status	Indication	LED Behavior
Short circuit or overconsumption at input port (S)	Error condition	SLOW BLINK
ON	Normal operation	ON

MAINTENANCE

The SmartKom unit is designed for durability with a weather-resistant Zamak and ABS enclosure, suitable for outdoor mast mounting. No specific routine maintenance is typically required beyond ensuring connections remain secure and free from corrosion.

Configuration settings are saved in memory and are retained even after a power loss, eliminating the need for re-setup.

Periodically inspect the unit and its connections for any signs of physical damage or wear, especially if mounted outdoors.

TROUBLESHOOTING

No Channel Reception / Zero Signal

- **Power Supply:** Ensure the included power supply controller is correctly connected and powered. The SmartKom requires power via the coaxial cable from this unit. Check the Status LED on the Power Supply Unit

(PSU) for an 'ON' indication. If it's blinking slowly, there might be a short circuit or overconsumption.

- **Connections:** Verify that all coaxial cables are securely connected to the correct input and output terminals on both the SmartKom and the power supply.
- **Auto-Scan:** Perform an auto-scan as described in the Setup section to ensure the SmartKom has detected and configured channels.

ASuite App Communication Timeout

- **Bluetooth Activity:** The internal unit's Bluetooth connection remains active for approximately 2 hours. If you need to make adjustments after this period, power cycle the inside unit (unplug and re-plug the power supply) to restart the Bluetooth functionality.
- **App Version:** Ensure your ASuite app is updated to the latest version.
- **Device Proximity:** Maintain a reasonable distance between your mobile device and the SmartKom unit for stable Bluetooth connection.

Scanning Issues / Signal Dropouts

- **Complex Antenna Setups:** If the auto-scan struggles with three antennas, try performing the initial scan with only two antennas connected. Once configured, you can manually add channels for the third antenna using the ASuite app.
- **Manual Channel Selection:** Use the ASuite app to manually select which antenna receives which channel, especially if a strong channel is picked up by multiple antennas, or if auto-scan does not optimize reception for specific channels.
- **Antenna Aiming:** Confirm that your antennas are correctly aimed towards broadcast towers. Resources like rabbitears.com can assist in identifying optimal directions and actual channel numbers (RF channels).
- **Environmental Factors:** Extreme weather conditions can temporarily affect signal reception.

SPECIFICATIONS

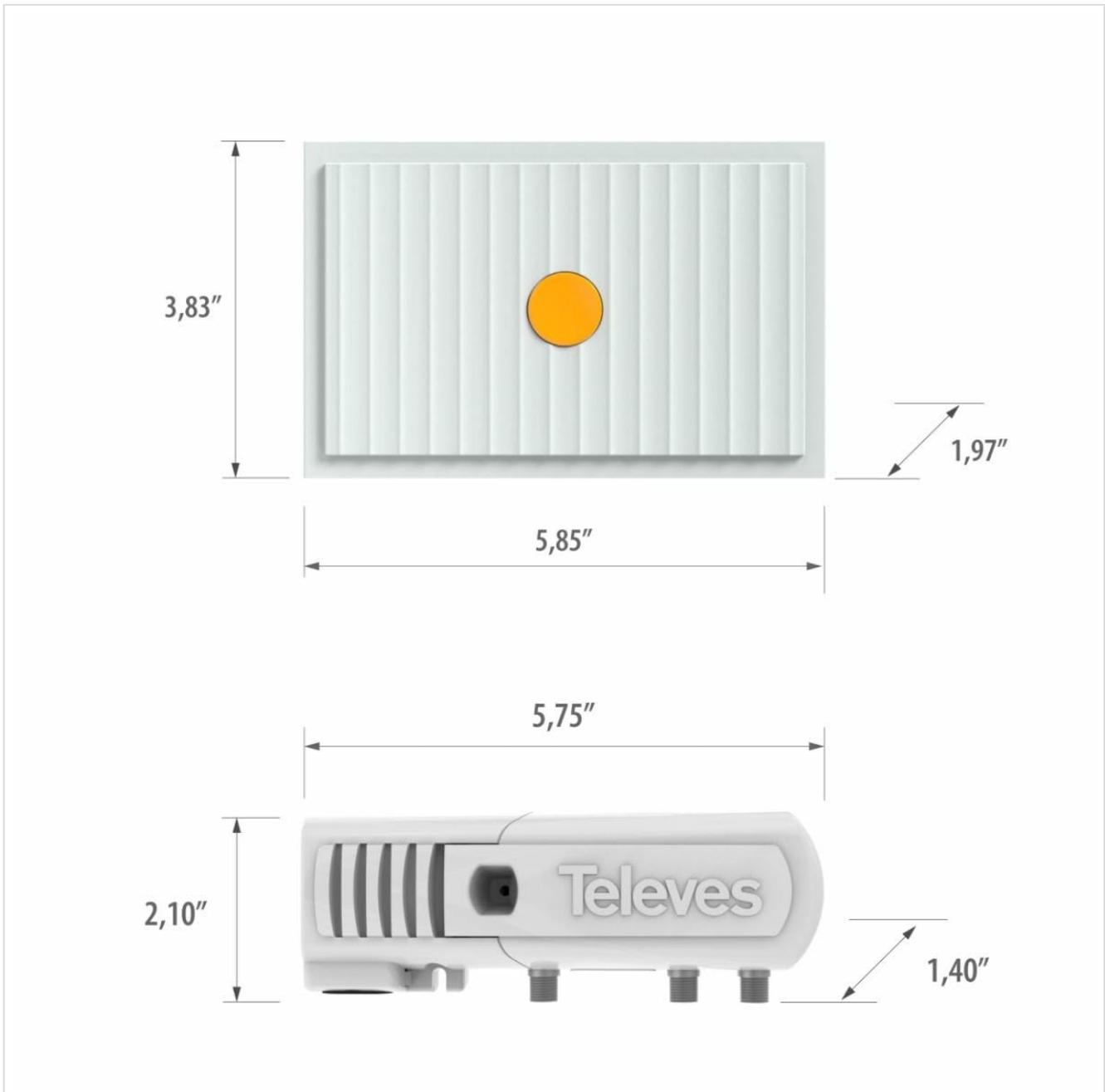


Figure 3: SmartKom Unit Dimensions. A diagram illustrating the physical dimensions of the SmartKom unit, providing measurements for installation planning.

Feature	Detail
Model Number	531983
Manufacturer	Televes
Mounting Type	Mast-Mounted
Number of Antenna Inputs	3
Output Power	25000 Milliwatts (25 dBmV fixed, maintained by AGC)
Material	Zinc Alloy (Zamak and ABS enclosure)
Item Weight	1.91 pounds
Package Dimensions	7.68 x 6.97 x 2.32 inches

Feature	Detail
Filtering	32 per-channel digital filters, LTE/5G filtering (above 608 MHz)
Control	Auto-scan button, ASuite app via Bluetooth
Compatibility	ATSC 3.0 (NextGen TV), UHD 4K OTA broadcasts

WARRANTY INFORMATION

For detailed warranty information regarding your Televes SmartKom unit, please refer to the official Televes website or contact their customer support directly. Warranty terms and conditions may vary by region and purchase date.

SUPPORT

If you require further assistance, have questions about installation, or need technical support, please visit the official Televes website for resources, FAQs, and contact information for their customer service department.

You can also refer to the ASuite app for additional guidance and advanced configuration options.