

SmartKom intelligent amplifier Autoprogramming, or manual programming via Bluetooth® (ASuite)

The rotor-killer solution

Compact high technology preamplifier with digital channel processing, designed for outdoors installation in family-houses. Equipped with 3 inputs, it combines and amplifies these terrestrial signals (VHF+UHF) to bring in stations from different sites. Each channel can be individually filtered and adjusted by any of the 32 available programmable filters.
SmartKom is supplied with a 12V (750mA) domestic power supply that is inserted into the coaxial installation and powers it through its output connector.

The autoprogramming function of the preamplifier gives this device the ability to program and adjust itself for the best signal output, simply by pressing a button. In addition, thanks to the Bluetooth® antenna included into the PSU, manual or automatic programming of the preamplifier can be done wirelessly using a smartphone or tablet, with the ASuite application.

Ref.	531981
EAN13	8424450272909

Packaging info

Box	1 pcs.

Physical data

Net weight	850.00 g
Gross weight	900.00 g
Width	135.00 mm
Height	127.00 mm
Depth	50.00 mm
Main product weight	525.00 g

Highlights

- "All-in-one" device: it combines the functions of several functions needed in an installation including filters, combiners and amplifiers, supplying a complete signal distribution under a single coaxial cable
- Plug&Play: the preamplifier automatically programs the signals from the 3 inputs and optimally adjusts all channels from each antenna simply by pressing the autoprogramming button. In addition, SmartKom automatically powers the antenna in case the signal requires it
- Automatic gain regulation of signal in each filter (AGC) and wide dynamic range in each filter adjusts all carriers to the same power
- Great signal quality: its digital processing minimizes severe signal loss, co-channel interference, as well as multipath and phasing interference common with conventional splitters/combiners
- Compatible with existing HDTV signals and UHD 4K stations (NextGen TV / ATSC 3.0)
- Undesired out of band and cell phone LTE/5G signals are filtered to avoid interference
- Wireless manual or automatic programming (via **Bluetooth®**) is also available for a more personalized configuration. Use a smartphone or tablet with the ASuite app to avoid having to go to the mast

Main features

- Static installation: SmartKom does not require moving mechanical parts that are prone to failure
- Secure configuration: in case of loss of power, SmartKom saves the current configuration,

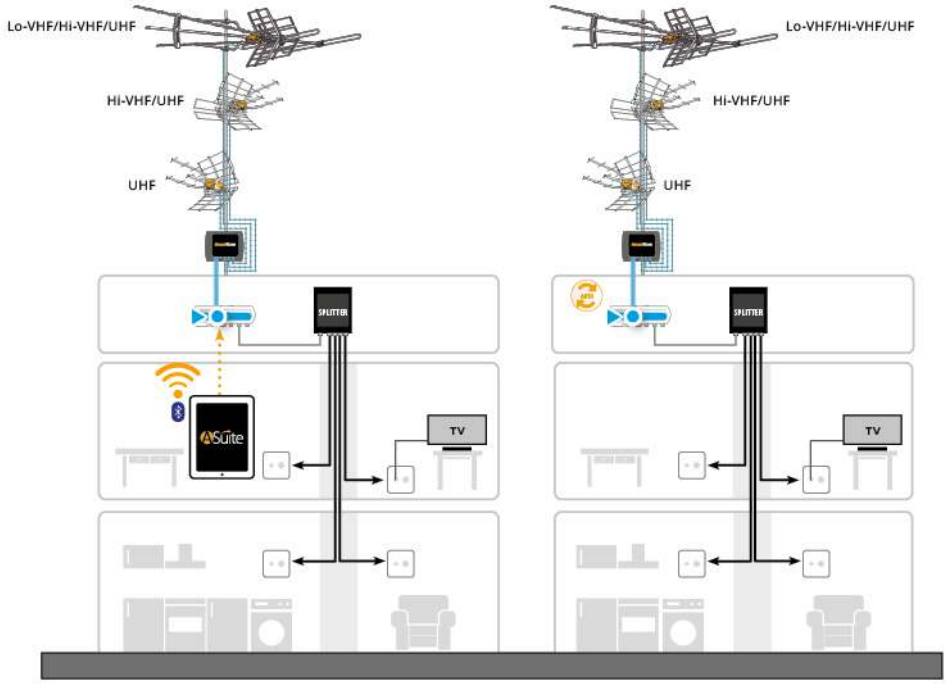
avoiding the need to configure it again

- Remote powering, through the coaxial cable
- High output level
- "F" type connectors
- LEDs indicators displaying both adjustment and programming status on the preamplifier and on the power supply
- High shielding chassis, made of Zamak
- Weather resistant: the device is housed inside a sturdy weather resistant case
- 100% European design and manufacturing: fully automated manufacturing, subject to the most stringent quality controls

Application example

SmartKom preamplifier installation in a single family house

The device is installed on the antenna mast and is powered through the coaxial output connector.
The PSU is located indoors and includes a Bluetooth® antenna to wireless program the solution with ASuite App.



Manual Configuration

Automatic Configuration

Televes®

Technical specifications : Ref. 531981

Number of inputs		3		
Number of outputs		1		
Bands		BI	BIII	UHF
Frequency range	MHz	54 ... 88	174 ... 216	470 ... 608
Input level	dBmV	-20 ... 30	-20 ... 30	-20 ... 30
Gain	dB	45	45	45
Gain adjustment range		AGC	AGC	AGC
Number of filters		32	32	32
Channels per filter		1	1	1
Channels		2 ... 6	7 ... 13	14 ... 36
Filtered channel level regulation		AGC per filter	AGC per filter	AGC per filter
Selectivity	dB	> 50*[1]	> 50*[2]	> 50*[3]
Output level	dBmV	22	22	25
Vout regulation	dBmV	-3 ... 22	-3 ... 22	0 ... 25
Manual regulation after auto-adjustment	dB	-3 ... 3	-3 ... 3	-3 ... 3
Powering per inputs	Vdc	12		
Max current input	mA	70		
Max. current	mA	500		
Protection index (IP)		23		
Operating temperature	°F	23 ... 113		
PSU frequency range TV-MIX	MHz	47 ... 862		
PSU output voltage	Vdc	12		
Max PSU output current	mA	750		
PSU insertion losses	dB	< 2		
PSU input voltage	Vac	110 ... 120		
Max PSU current input	mA	200		
Max. PSU power consumption	W	14		
PSU protection index		20		
PSU operating temperature	°F	23 ... 113		

*[1] With adjacent channels: >30dB (@1MHz) // Without adjacent channels: >50 dB (@6MHz)

*[2] With adjacent channels: >30dB (@1MHz) // Without adjacent channels: >50 dB (@6MHz)

*[3] With adjacent channels: >30dB (@1MHz) // Without adjacent channels: >50 dB (@6MHz)