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Kit: Mast amplifier with BOSS-Tech and "F" Power Supply Unit 1 input: LowVHF/HighVHF/UHF (Repack Ready)

This mast-mounted preamplifier features one input covering the entire TV band and can be used with any TV antenna (VHF, VHF/UHF or UHF). Unique to Televes, the new T-Force preamplifier family features automatic gain control ensuring an optimum amount of signal is delivered at all times despite changes in the receiving conditions and avoiding over or under amplification situations. The automatic gain control is independent per band so that adjustments to the UHF channels do not impact VHF channels and vice-versa. It features high gain and powerful output level while the high screening cast metal chassis ensures best-in-class electromagnetic shielding protection. Cast metal and high-grade ABS plastic construction for reliable outdoor installation withstanding the harshest elements.

This particular unit is an entirely new design optimized for the new repack TV frequencies. Its fine tuned steep filters reject any out of band interference, including FM and 5G signals over 608 MHz.

A low-consumption UL-listed power supply is included providing two outputs for convenient distribution to additional TV sets. This Televes preamplifier can also pass power to an active antenna when needed.

Ref.560383

Art.Nr

EAN13

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Highlights

- Repack Ready: Fine tuned filtering avoids 5G cellphone interference and allows compatibility with ATSC 3.0 broadcasting (NextGenTV)

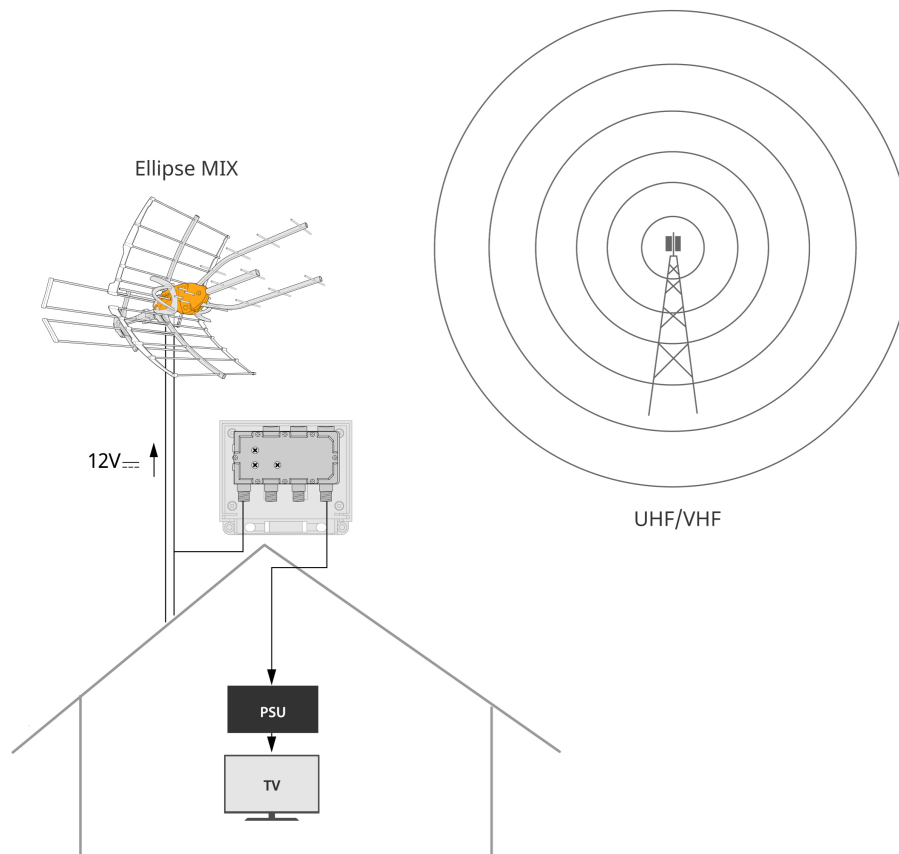
- Automatic gain adjustment compensates fluctuations on the received signal ensuring the best output level is delivered and avoiding over/under amplification
- Dual band amplification with independent automatic gain regulation per band. The VHF and UHF bands are independently and automatically adjusted
- Maximum gain: 31dB (UHF, channels 14-36), 22dB (high VHF, channels 7-13), 22dB (low VHF, channels 2-6)
- Very low noise and high output level (47dBmV UHF, 43dBmV VHF)
- 5G and FM filtering eliminates cellphone and radio interference
- Cast metal and resistant ABS-plastic construction for reliable outdoor installation in the harshest conditions
- High-screening metal chassis provides optimal electromagnetic shielding
- ON/OFF switch to allow DC passing towards the input to power up active antennas or other preamplifiers

Main features

- "F" connectors
- ON/OFF switch to allow DC pass towards the input for the powering of a BOSS system
- Easy mounting. Equipped with a plastic tie for mast mounting
- Resistant ABS-plastic black case for outdoor installation

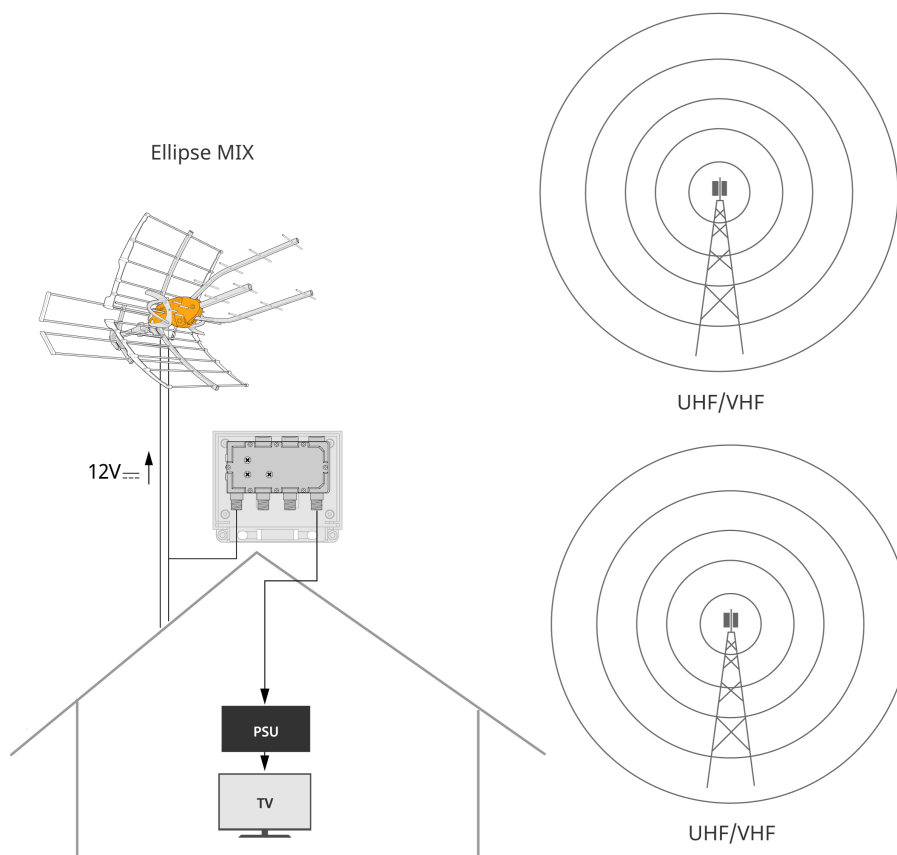
Application example

(Click to see the picture)



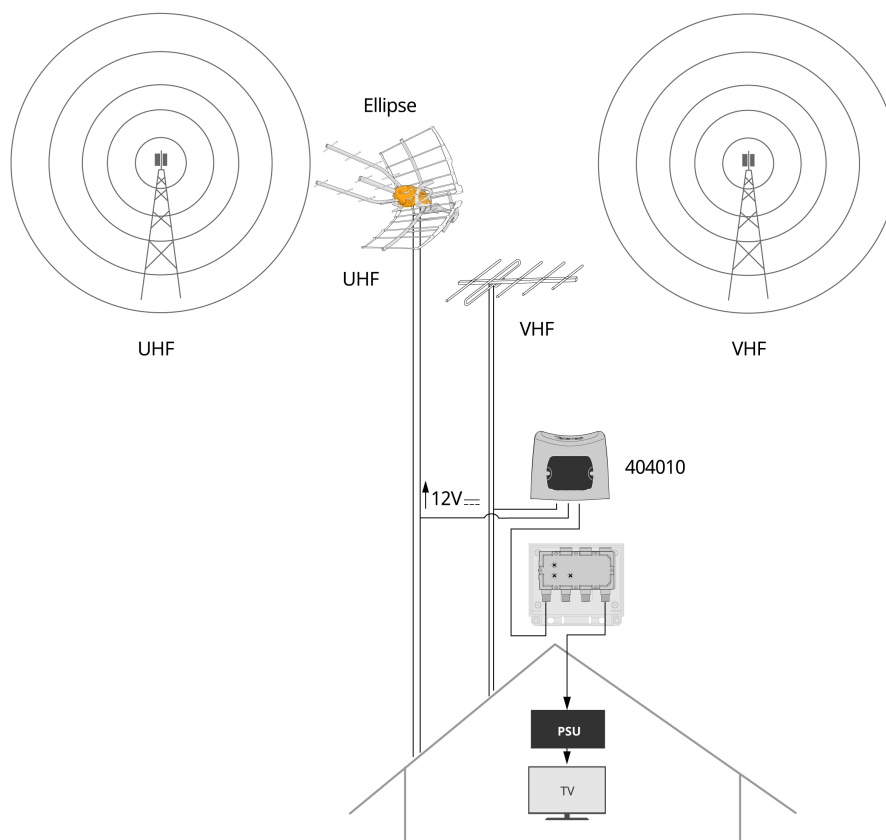
Receiving from one transmitting location using one antenna:

- The amplifier will automatically adjust its gain for each band independently over time to ensure optimum signal delivery. No configuration/settings are needed.
- The antenna used should be able to receive the desired frequency bands: LowVHF, HighVHF or UHF.



Receiving from two or more transmitting locations using one antenna:

- The amplifier will automatically adjust its gain for each band independently over time to ensure optimum signal delivery. No configuration/settings are needed.
- The antenna used should be able to receive the desired frequency bands: LowVHF, HighVHF or UHF.



Dedicated VHF and UHF antennas in fringe reception scenarios:

- To optimize the signal quality in fringe situations and when band dedicated UHF only and VHF only antennas are used, it is recommended to combine the antennas signals with a VHF/UHF diplexer (Ref. 404010) and connect the resulting feed to the amplifier

Technical specifications

Mast amplifier:

Inputs/Bands		LowVHF/HighVHF/UHF			
Frequency margin		MHz	54-88	174-216	470-608
Gain		dB	22		31
Automatic gain adjustment range		dB	0 ... 15		
Output level	DIN 45004B	dBmV	43	47	
	EN 60728-3 (IMD3 2CH -35dB)		51	55	
Power supply		Vdc/mA	12 / 50		
Max current through inputs	OFF	mA	0		
	ON		70		
Operating temperature		°F	+23 ... 113		
Protection index		IP	23		

Power Supply Unit:

Frequency margin	Mhz	5 - 862	
Through loss (typ.)	dB	1 Out	Main: 1.5 / Aux: ----
		2 Out	Main 4 / Aux: 4
Output interstage equalizer	V	12 ±1.5	
Max. output current	mA	220	
Min. output current	mA	30	
Powering	V~ / Hz	108 - 132 / 50-60	
Máx. Consumption	mA~ / W	65 / 3.6	
Protection index	IP	20	
Operating temperature	°F	14 ... +113	