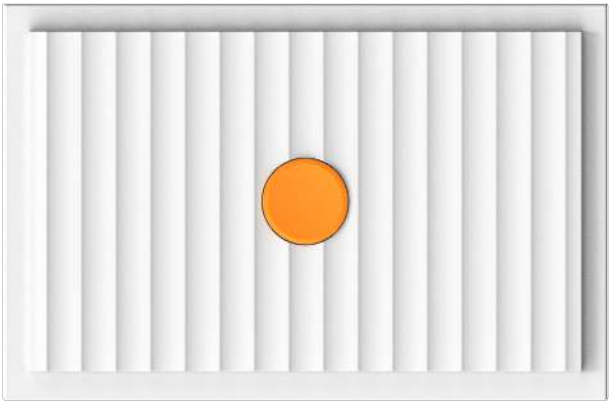


# Preamp 3: 1-Input Mast Amplifier with BOSS-Tech and Ultra-Low Noise Figure + 2-Output Power Supply, Low-VHF/High-VHF/UHF (Repack Ready)

Preamp 3 is a mast-mounted amplifier designed for single-family homes. It amplifies Low-VHF, High-VHF, and UHF signals received from a single over-the-air antenna and is optimized for the **Repack Ready frequency plan**, rejecting signals above channel 36 (608 MHz).

The amplifier features **BOSS-Tech**, which automatically adjusts the gain according to the incoming signal conditions, ensuring an optimum output level at all times.

Its **noise figure below 1dB** minimizes signal degradation during amplification, preserving a greater signal quality margin even in weak-signal areas or installations with long cable runs.

Preamp 3 is supplied with a 12 V (220 mA) indoor power supply that feeds the amplifier through the coaxial cable while allowing the TV signal to pass. The power supply also integrates a built-in 2-way splitter to provide two output connections and is UL certified (US-plug).

| | |
|---|---|
| Ref. | 560381 |
| EAN13 | 8424450336069 |

| Other features | |
|---|---|
| Colour | White |

| Packaging info | |
|---|---|
| Box | 1 pcs. |

| Physical data | |
|---|---|
| Net weight | 810.00 g |
| Gross volume | 1.90 dm³ |
| Gross weight | 890.00 g |
| Width | 149.00 mm |
| Height | 97.00 mm |
| Depth | 50.00 mm |

| | |
|---|---|
| Main product weight | 491.00 g |

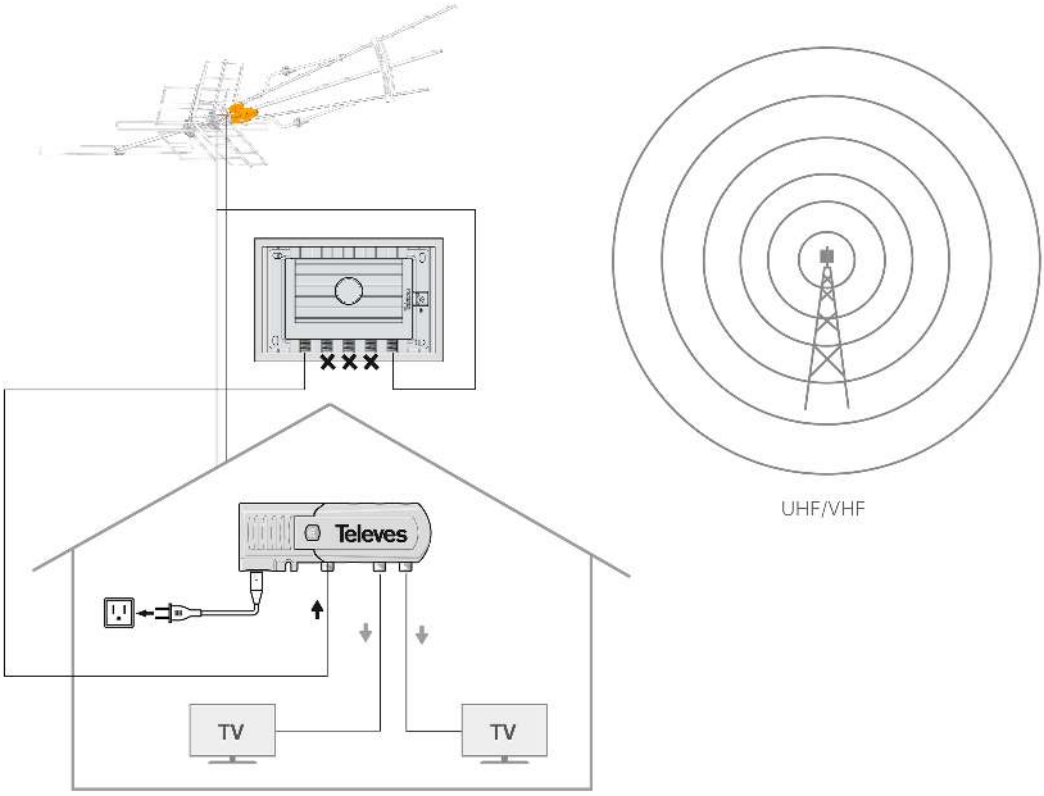
## Highlights

- **Cut the cord**: Enjoy free local and national over-the-air TV channels such as ABC HD, CBS HD, FOX HD, PBS HD, The CW, Univision HD, and more
- **Repack Ready**: Rejects out-of-band interference from FM radio and 4G/5G LTE services above 608 MHz
- **Ultra-low noise figure**: Preserves signal quality from the reception stage by minimizing signal degradation
- **Automatic gain control**: Integrated BOSS-Tech continuously adjusts gain to maintain the optimum output level
- **Fully shielded**: Zamak housing protects the electronics against electromagnetic interference
- **Built for outdoor installations**: White ABS enclosure with UV protection, validated (*according to ISO 4892-3:2016*)
- **Compact design**: Simplifies mast installation while minimizing the required mounting space
- 100% Televes: Designed, developed, and manufactured entirely in our automated facilities, ensuring outstanding quality through rigorous testing and manufacturing controls

## Application example

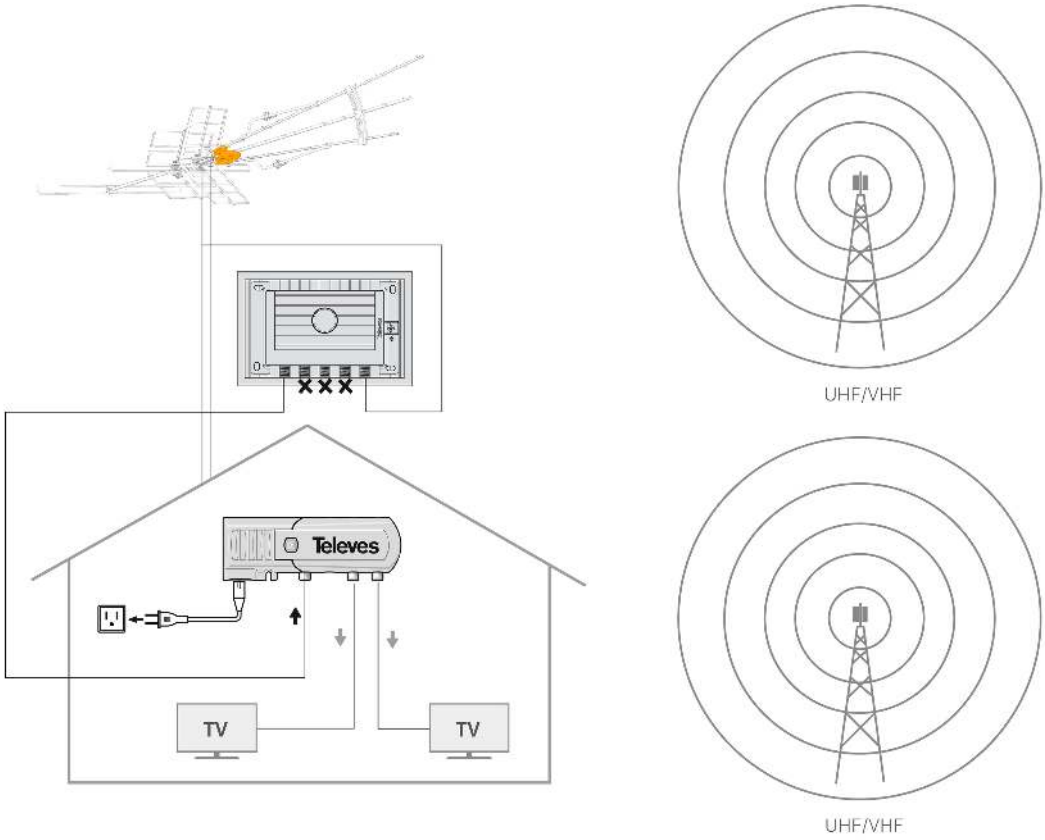
**Receiving from one transmitting location using one antenna:**

- 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.



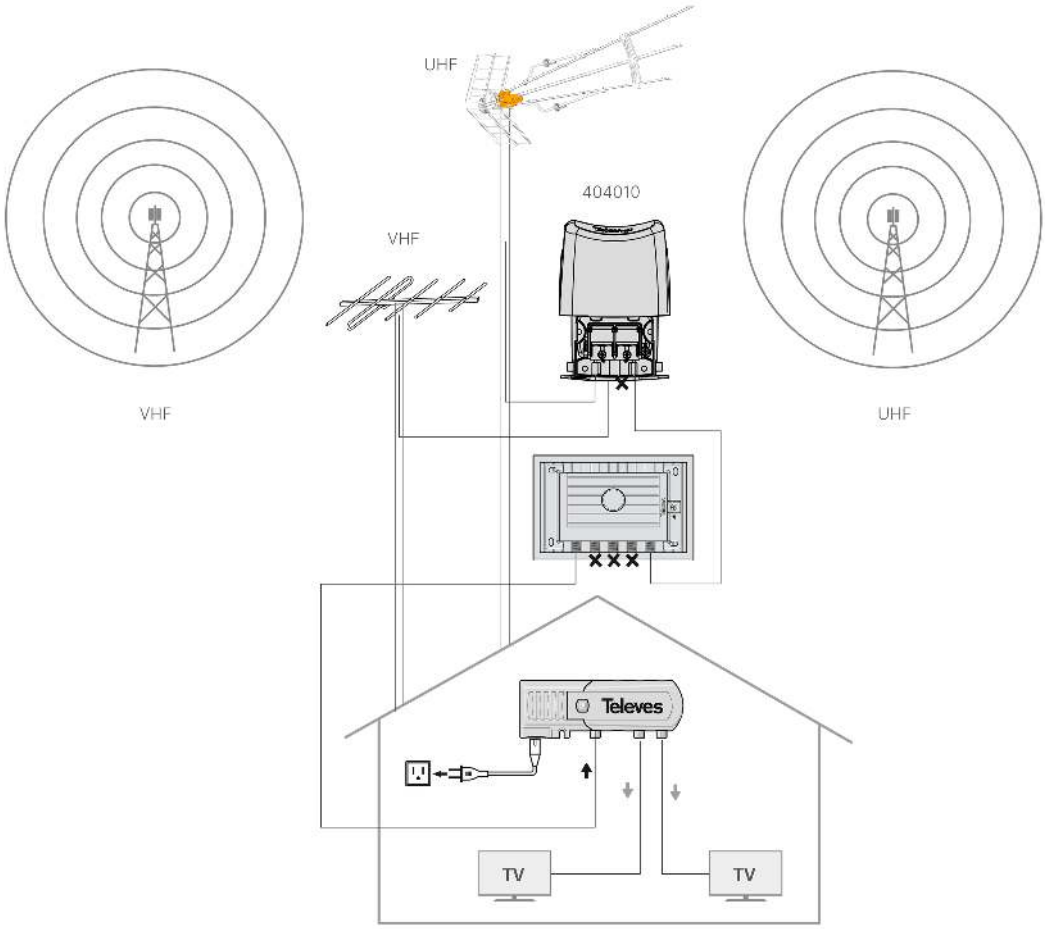

Receiving from two or more transmitting locations using one antenna:

- 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 singals with a VHF/UHF diplexer (Ref. 404010) and connect the resulting feed to the amplifier


UHF
404010
VHF
VHF
UHF
Televes
TV
TV

## Technical specifications

Mast amplifier:

| Inputs/Bands | | | 1x (LowVHF/HighVHF/UHF) | | |
|---|---|---|---|---|---|
| Frequency margin | | MHz | 54-88 | 174-216 | 470-608 |
| Gain | | dB | 33 | | |
| Automatic gain regulation margin | | dB | 0 ... 15 | | |
| Output level | DIN 45004B | dBmV | 48 | | |
| | EN 60728-3 (IMD3 2CH -35dB) | | 56 | | |
| Noise figure | | dB | 0,9 | | |
| Powering | | Vdc/mA | 12 / 70 | | |
| Operating temperature | | ºF | 12 ... 120 | | |
| Protection index | | IP | 23 | | |

Power supply unit:

| Frequency margin | Mhz | 5 - 862 | |
|---|---|---|---|
| Through losses (tip.) | dB | 1 Out | Main: 1.5 / Aux: ---- |
| | | 2 Out | Main 4 / Aux: 4 |
| Output voltage | V | 12 ±1.5 | |
| Max. output current | mA | 220 | |
| Min. output current | mA | 30 | |
| Mains voltage/frequency | V~ / Hz | 108 - 132 / 50-60 | |
| Max. current | mA~ / W | 65 / 3.6 | |
| Protection index | IP | 20 | |
| Operating temperature | ºF | 14 ... 113 | |