

## Edision LIA-301

# EDISION LIA-301 UHF/VHF Antenna Amplifier User Manual

Model: LIA-301

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## 1. INTRODUCTION

Thank you for choosing the EDISION LIA-301 UHF/VHF Antenna Amplifier. This device is designed to boost weak TV signals, ensuring clear reception for Digital Terrestrial Television (DVB-T/T2). It features a 5G LTE filter to minimize interference and offers adjustable gain for optimal signal strength. This manual provides essential information for the proper installation, operation, and maintenance of your amplifier.

## 2. SAFETY INSTRUCTIONS

Please read these safety instructions carefully before using the device to prevent damage and ensure safe operation.

- Do not expose the amplifier to rain, moisture, or extreme temperatures.
- Ensure the power supply voltage matches the requirements specified on the device.
- Do not open the casing of the amplifier. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Disconnect the power plug from the wall outlet before cleaning or if the device will not be used for an extended period.
- Keep the device away from heat sources and direct sunlight.
- Avoid placing the amplifier in areas with poor ventilation.

## 3. PRODUCT OVERVIEW

The EDISION LIA-301 is an indoor antenna amplifier designed to enhance UHF/VHF signals for digital terrestrial TV. It features one RF input and three RF outputs, allowing connection to multiple televisions.

### Key Features:

- UHF/VHF 20dB amplification.
- 1 RF input (UHF/VHF/FM) and 3 RF outputs (TV) with IEC connectors.
- Maximum output level of 98dBmV.
- Bandwidth: 47-694 MHz with integrated 5G LTE filter.

- Adjustable gain for UHF/VHF from 5 to 20dB.
- Ideal for situations where the signal at the TV outlet is weak.

### Component Identification:



Figure 3.1: Front view of the EDISION LIA-301 amplifier, showing the main unit and attached power cable.



Figure 3.2: Top view of the amplifier, highlighting the RF input, three TV outputs, and the adjustable gain dial (5-20dB) for UHF/VHF signals, along with the 5G LTE protection label.

## 4. SETUP AND INSTALLATION

Follow these steps to properly install your EDISION LIA-301 amplifier:

1. **Choose a Location:** Install the amplifier indoors, close to your TV outlet and away from direct heat or moisture.
2. **Connect Antenna Input:** Connect the coaxial cable from your antenna (or wall outlet) to the **RF IN** port on the amplifier. Ensure the connection is secure.
3. **Connect TV Outputs:** Connect coaxial cables from the amplifier's **TV** output ports to the antenna input of your television(s). The LIA-301 provides three TV outputs.
4. **Power Connection:** Plug the amplifier's power cable into a standard AC 100-240V, 50/60Hz wall outlet. A green LED indicator on the amplifier will illuminate, indicating power is supplied.
5. **Adjust Gain:** Once connected and powered, you can adjust the gain using the dial on the amplifier (refer to Section 5: Operating Instructions for details).

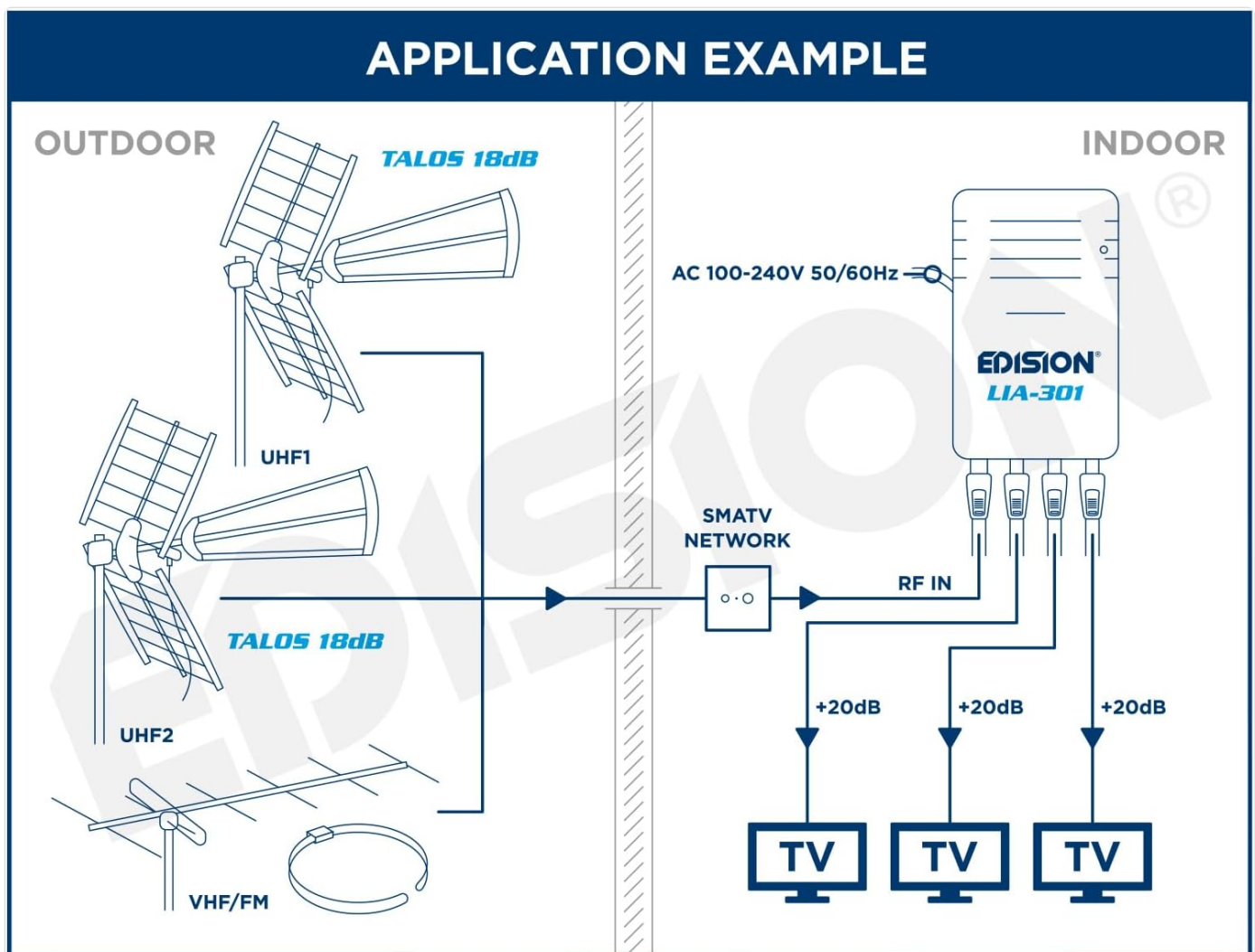


Figure 4.1: Application example illustrating how the EDISION LIA-301 amplifier connects an outdoor antenna system (UHF, VHF/FM) to multiple indoor televisions via a SMATV network, showing the RF IN and TV OUT connections.

## 5. OPERATING INSTRUCTIONS

The primary operation of the EDISION LIA-301 involves adjusting its gain to optimize signal reception.

- **Power Indicator:** The green LED on the amplifier indicates that the unit is powered on.

- **Gain Adjustment:** Locate the adjustable dial on the amplifier. This dial allows you to set the amplification level for UHF/VHF signals from 5dB to 20dB.
- **Optimizing Signal:**
  - a. Start with the gain set to its minimum (5dB).
  - b. Tune your TV to a channel that previously had a weak or pixelated signal.
  - c. Slowly increase the gain by turning the dial clockwise until the picture quality improves and becomes stable.
  - d. Avoid setting the gain too high, as this can lead to signal over-amplification, causing distortion or "intermodulation" (signal interference), which can worsen picture quality. If you experience this, slightly reduce the gain.
- **5G LTE Filter:** The integrated 5G LTE filter automatically works to reduce interference from 5G mobile signals, ensuring a cleaner TV signal.

## 6. MAINTENANCE

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The EDISION LIA-301 amplifier requires minimal maintenance.

- **Cleaning:** Disconnect the amplifier from the power outlet before cleaning. Use a soft, dry cloth to wipe the exterior. Do not use liquid cleaners or abrasive materials.
- **Ventilation:** Ensure that the ventilation slots on the amplifier are not blocked to prevent overheating.
- **Cable Connections:** Periodically check all coaxial cable connections to ensure they are secure and free from corrosion.

## 7. TROUBLESHOOTING

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If you encounter issues with your EDISION LIA-301 amplifier, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power indicator light.	Amplifier not plugged in; power outlet faulty; power cable damaged.	Ensure the power cable is securely plugged into a working outlet. Check the power cable for damage.
No signal or poor picture quality after installation.	Incorrect cable connections; gain set too low; signal over-amplification; faulty cables.	Verify all coaxial cables are securely connected to the correct ports (RF IN, TV OUT). Adjust the gain dial slowly. Start low and increase until signal improves. If signal is distorted or pixelated, the gain might be too high (over-amplification/intermodulation). Reduce the gain slightly. Test with different coaxial cables if possible. Ensure your antenna is properly positioned and receiving a basic signal. This amplifier boosts, it does not create a signal.
Interference from mobile signals (e.g., 5G).	Strong local 5G/LTE signals.	The amplifier has an integrated 5G LTE filter. While it attenuates strong interfering signals, in extremely strong interference environments, some residual interference might occur. Ensure the gain is not set excessively high.

## 8. SPECIFICATIONS

Brand	Edision
Model Number	LIA-301 (26-01-0303)
Color	White
Frequency Bandwidth	47-694 MHz
Gain (UHF/VHF)	Adjustable 5-20dB
Max. Output Level	98dBmV
Inputs	1 (UHF/VHF/FM)
Outputs	3 (TV)
Connectors	IEC
Special Features	5G LTE Filter, Wide compatibility with various antenna and TV types
Compatible Devices	Terrestrial antenna and TV with coaxial IEC type sockets
Power Supply	AC 100-240V, 50/60Hz
Country of Origin	China

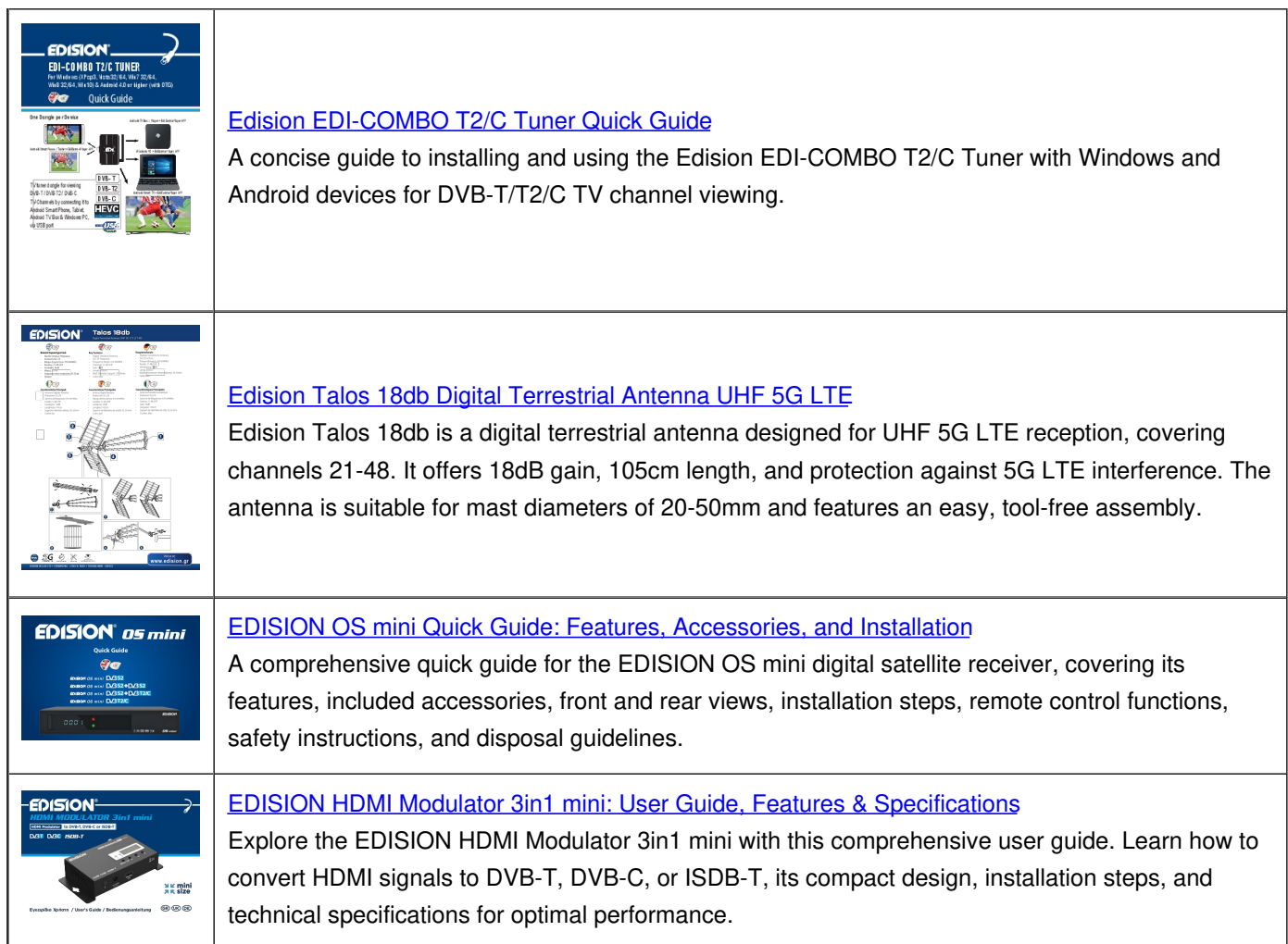
## 9. WARRANTY AND SUPPORT

For information regarding warranty terms, technical support, or spare parts availability, please refer to the official EDISION website or contact your local retailer where the product was purchased. This manual does not contain specific warranty details or direct support contact information.

For further assistance, you may visit the [EDISION official website](#).



### Related Documents



## Documents - Edision – LIA-301