

## Alcad AI-270

# Alcad AI 270 Indoor Amplifier User Manual

Model: AI-270

## 1. PRODUCT OVERVIEW

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The Alcad AI 270 is an indoor amplifier designed to boost television and radio signals within your home. It features advanced LTE 700 rejection to minimize interference from mobile phone signals, ensuring a clear and stable reception. This amplifier is suitable for enhancing signal strength for multiple televisions or receivers.

### Key Features:

- LTE 700 Rejection: Filters out 4G/5G interference.
- High Gain: UHF: 24 dB, VHF/S: 14 dB for improved signal strength.
- Multiple Outputs: 1 input and 2 outputs for connecting multiple devices.
- Compact Design: White finish, suitable for indoor installation.



**Figure 1:** Front view of the Alcad AI 270 Indoor Amplifier, showing its compact white casing and connection ports.

## 2. SAFETY INSTRUCTIONS

Please read and follow these safety instructions carefully before installing and operating the Alcad AI 270 amplifier to prevent damage and ensure safe use.

- **Indoor Use Only:** This device is designed for indoor use. Do not expose it to rain, moisture, or extreme temperatures.
- **Power Supply:** Use only the provided power adapter. Ensure the power outlet matches the voltage requirements.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Placement:** Install the amplifier in a dry, well-ventilated area, away from heat sources and direct sunlight.
- **Cleaning:** Disconnect from power before cleaning. Use a soft, dry cloth. Do not use liquid cleaners.
- **Servicing:** Do not attempt to open or repair the unit yourself. Refer all servicing to qualified personnel.

### 3. PACKAGE CONTENTS

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Verify that all items are present in the package:

- Alcad AI 270 Indoor Amplifier
- Power Adapter
- User Manual (this document)

### 4. SETUP AND INSTALLATION

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Follow these steps to properly install your Alcad AI 270 amplifier:

1. **Choose a Location:** Select a central location indoors, close to your antenna input and your television(s). Ensure it is protected from moisture and extreme temperatures.
2. **Connect Antenna Input:** Connect the coaxial cable from your antenna (or wall outlet) to the **INPUT** port on the Alcad AI 270 amplifier. Ensure the connection is secure.
3. **Connect Outputs:** Connect coaxial cables from the **OUTPUT 1** and **OUTPUT 2** ports on the amplifier to your television(s) or other receiving devices.
4. **Connect Power:** Plug the provided power adapter into the amplifier's power input port, then plug the adapter into a standard electrical wall outlet. The power indicator light on the amplifier should illuminate.
5. **Scan for Channels:** Turn on your television(s) and perform a channel scan (refer to your TV's manual for instructions). This will allow your TV to detect the newly amplified signals.

### 5. OPERATING INSTRUCTIONS

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The Alcad AI 270 amplifier operates automatically once powered on. There are no user-adjustable controls.

- **Power On:** Ensure the amplifier is connected to a power source. The power indicator light confirms it is operational.
- **Signal Enhancement:** The amplifier continuously boosts the incoming antenna signal and distributes it to the connected outputs.
- **Optimal Performance:** For best results, ensure all coaxial cable connections are tight and in good condition.

## 6. MAINTENANCE

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The Alcad AI 270 amplifier requires minimal maintenance.

- **Cleaning:** Periodically wipe the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Ventilation:** Ensure that the ventilation slots are not obstructed by dust or other objects.
- **Cable Connections:** Occasionally check all coaxial cable connections to ensure they remain tight and secure.

## 7. TROUBLESHOOTING

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If you experience issues with your Alcad AI 270 amplifier, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
No power indicator light	Power adapter not connected or faulty; power outlet not working.	Check power adapter connection to amplifier and wall outlet. Test the outlet with another device.
No signal or poor signal on TV	Loose cable connections; antenna issue; TV not scanned for channels; amplifier malfunction.	Ensure all coaxial cables are securely connected. Check your antenna for proper positioning and function. Perform a channel scan on your TV. If issues persist, contact support.
Picture pixelation or freezing	Signal too strong (over-amplification); interference; poor quality cables.	While rare with this model, try bypassing the amplifier to see if the signal improves. Check for sources of interference (e.g., other electronic devices). Replace old or damaged coaxial cables.

## 8. SPECIFICATIONS

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Feature	Specification
Model	AI-270
Brand	Alcad
Type	Indoor Amplifier
Color	White
LTE Rejection	700 MHz
Gain (UHF)	24 dB
Gain (VHF/S)	14 dB
Number of Inputs	1
Number of Outputs	2
Number of Channels	2
Item Weight	1 kilogram (approx.)
Manufacturer	ALCAD

## 9. WARRANTY AND SUPPORT

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Alcad products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your purchase or contact your local Alcad distributor. Keep your proof of purchase for warranty claims.

For technical support or further assistance, please visit the official Alcad website or contact their customer service department.