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AIYIMA A05

AIYIMA A05 TPA3221 Power Amplifier User Manual

Model: A05

1. INTRODUCTION

Thank you for choosing the AIYIMA A05 TPA3221 Power Amplifier. This compact 2.0 channel stereo amplifier is designed to deliver high-fidelity audio to passive speakers, featuring both Bluetooth and RCA input options. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your device.

2. SAFETY INSTRUCTIONS

- **Power Supply:** Use only the specified power adapter (DC 12-32V) to prevent damage. Ensure the power outlet voltage is compatible.
- **Ventilation:** Place the amplifier in a well-ventilated area. Do not block ventilation openings. Avoid placing it on soft surfaces that may obstruct airflow.
- **Moisture:** Keep the device away from water, humidity, and liquids. Do not operate with wet hands.
- **Heat:** Avoid direct sunlight, heat sources, or extreme temperatures.
- **Cleaning:** Disconnect power before cleaning. Use a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Servicing:** Do not attempt to repair or disassemble the unit yourself. Refer all servicing to qualified personnel.
- **Children:** Keep out of reach of children.

3. PACKAGE CONTENTS

Please check the package for the following items:

- AIYIMA A05 Bluetooth 5.0 Amplifier x 1
- Bluetooth Antenna x 1
- User Manual x 1
- Warranty Card x 1

- DC 32V Power Adapter x 1



Image 3.1: Contents of the AIYIMA A05 amplifier package, including the amplifier unit, Bluetooth antenna, user manual, warranty card, and power adapter.

4. PRODUCT OVERVIEW

4.1 Front Panel Controls



When the two methods are input at the same time, the Bluetooth input has priority. After the Bluetooth is connected, the RCA input is automatically disconnected; when the analog input is required, please turn off the Bluetooth function of the mobile phone to switch.

* BT Input:Green

* RCA Input:Red

BT/RCA Indicator

Switch



Treble Control Bass Control Total vol

Image 4.1: Front panel of the AIYIMA A05 amplifier, showing the power switch, input indicator, treble, bass, and volume controls.

- **Power Switch (ON/OFF):** Toggles the amplifier power.
- **BT/RCA Indicator:** Displays the active input source. Green indicates Bluetooth (BT) input, Red indicates RCA input.
- **Treble Control:** Adjusts the high-frequency audio output.
- **Bass Control:** Adjusts the low-frequency audio output.
- **Volume Control:** Adjusts the overall audio output level.



Image 4.2: Close-up view of the power switch and the BT/RCA input indicator on the front panel.



Image 4.3: Close-up view of the Treble, Bass, and Volume control knobs.

4.2 Rear Panel Connections



Image 4.4: Rear panel of the AIYIMA A05 amplifier, showing the Bluetooth antenna port, RCA audio input, speaker outputs, and DC power input.

- **ANT (Bluetooth Antenna Port):** Connect the included Bluetooth antenna here for wireless audio reception.
- **AUDIO IN (RCA Input):** Connect audio sources (e.g., CD player, TV, DAC) using RCA cables.
- **SPEAKER (Audio Output):** Connect passive speakers using speaker wires. Ensure correct polarity (+ to + and - to -).
- **DC 24-32V (Power Input):** Connect the provided DC power adapter.

5. SETUP INSTRUCTIONS

Follow these steps to set up your AIYIMA A05 amplifier:

1. **Connect Bluetooth Antenna:** Screw the included Bluetooth antenna into the ANT port on the rear panel.
2. **Connect Speakers:** Connect your passive speakers to the SPEAKER output terminals on the rear panel.

Ensure the positive (+) terminal of the amplifier connects to the positive (+) terminal of the speaker, and the negative (-) terminal connects to the negative (-).

3. **Connect Audio Source (RCA):** If using a wired audio source, connect it to the AUDIO IN (RCA) ports on the rear panel using appropriate RCA cables.
4. **Connect Power:** Connect the DC power adapter to the DC 24-32V input port on the rear panel, then plug the adapter into a wall outlet.
5. **Power On:** Flip the power switch on the front panel to the "ON" position. The input indicator will light up.



Image 5.1: Rear panel of the amplifier with Bluetooth antenna, RCA cables, speaker wires, and power adapter connected.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

To power on the amplifier, flip the front panel switch to the "ON" position. To power off, flip the switch to the "OFF" position.

6.2 Bluetooth Connection

1. Ensure the amplifier is powered on and the BT/RCA indicator is green, indicating Bluetooth mode. If it's red, ensure no RCA cable is connected or disconnect it.
2. On your mobile device (phone, tablet, etc.), enable Bluetooth and search for available devices.
3. Select "AIYIMA A05" from the list of devices to pair.
4. Once paired, the indicator light will remain green, and you can play audio from your device through the amplifier.

6.3 RCA Input Usage

1. Connect your audio source to the RCA input ports on the rear panel.
2. Ensure the amplifier is powered on. The BT/RCA indicator should be red, indicating RCA input mode.
3. If the indicator is green (Bluetooth mode), ensure Bluetooth is disconnected on any paired device, or turn off Bluetooth on your mobile device to switch to RCA input.

Important Note on Input Priority: When both Bluetooth and RCA inputs are connected, the Bluetooth input has priority. After Bluetooth is connected, the RCA input is automatically disconnected. When analog (RCA) input is required, please turn off the Bluetooth function on your mobile device to switch inputs.

6.4 Adjusting Audio

- **Volume:** Rotate the "VOL" knob clockwise to increase volume and counter-clockwise to decrease.
- **Treble:** Rotate the "TREBLE" knob to adjust high-frequency sounds to your preference.
- **Bass:** Rotate the "BASS" knob to adjust low-frequency sounds to your preference.

7. MAINTENANCE

- **Cleaning:** Disconnect the power adapter before cleaning. Use a soft, dry, lint-free cloth to wipe the surface of the amplifier. Do not use harsh chemicals or abrasive materials.
- **Storage:** If not in use for an extended period, store the amplifier in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Connections:** Periodically check all cable connections to ensure they are secure and free from corrosion.

8. TROUBLESHOOTING

If you encounter issues with your AIYIMA A05 amplifier, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No sound output	<ul style="list-style-type: none"> • Power not connected or switched off. • Incorrect input selected. • Speaker wires loose or incorrectly connected. • Volume too low. • Audio source issue. 	<ul style="list-style-type: none"> • Ensure power adapter is connected and switch is ON. • Verify BT/RCA indicator shows the desired input. Disconnect Bluetooth on device if using RCA. • Check speaker wire connections for proper polarity and tightness. • Increase volume on amplifier and audio source. • Test with a different audio source.
Distorted or buzzing sound	<ul style="list-style-type: none"> • Loose connections. • Input signal too strong. • Operating in cold temperatures. • Faulty audio source or cable. 	<ul style="list-style-type: none"> • Check all cable connections. • Reduce volume on the audio source. • Ensure the amplifier is operating within a reasonable temperature range (above 40°F/4°C). • Try a different audio source or cable.
Bluetooth not connecting	<ul style="list-style-type: none"> • Amplifier not in pairing mode. • Device too far from amplifier. • Bluetooth already connected to another device. • Interference. 	<ul style="list-style-type: none"> • Ensure amplifier is powered on and indicator is green. • Move your device closer to the amplifier. • Disconnect from other Bluetooth devices. • Restart both the amplifier and your Bluetooth device.
Loud noise/ticking on startup	<ul style="list-style-type: none"> • Normal power-up sequence (brief). • Power supply issue. • Internal component issue. 	<ul style="list-style-type: none"> • A brief noise during power-up may be normal. If persistent or excessive, check power supply. • Ensure power supply is stable and correct voltage. • If noise persists or is severe, contact customer support.

If the problem persists after trying these solutions, please contact AIYIMA customer support for further assistance.

9. SPECIFICATIONS



Image 9.1: Dimensions of the AIYIMA A05 amplifier: 107mm (4.2in) width, 87mm (3.4in) depth, 36mm (1.4in) height.

Feature	Specification
Model	A05
Output Power	105 Watts (at 4 Ω)
Number of Channels	2.0 (Stereo)
Bluetooth Version	QCC3034 APTX Bluetooth 5.0
Chipset	TPA3221
Minimum Supply Voltage	12 Volts (DC)
Maximum Supply Voltage	32 Volts (DC)
Item Weight	500 Grams
Dimensions (Approx.)	107mm (W) x 87mm (D) x 36mm (H)

10. WARRANTY AND SUPPORT

The AIYIMA A05 amplifier comes with a warranty. Please refer to the included Warranty Card for specific terms and conditions. For technical support, troubleshooting assistance, or warranty claims, please contact AIYIMA customer service through the retailer where the product was purchased or visit the official AIYIMA website.

Online Resources: For additional information and support, you may visit the AIYIMA store page: [AIYIMA Official Store](#)