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› ARRAROWN AK-55 Plus Bluetooth Stereo Amplifier User Manual

ARRAROWN AK55 Plus

ARRAROWN AK-55 Plus Bluetooth Stereo Amplifier User Manual

MODEL: AK55 PLUS

Introduction

Thank you for choosing the ARRAROWN AK-55 Plus Bluetooth Stereo Amplifier. This manual provides essential information for the proper setup, operation, and maintenance of your amplifier. Please read this manual thoroughly before using the product to ensure optimal performance and safety. Keep this manual for future reference.

Product Overview

The AK-55 Plus is a versatile 2.0 channel stereo amplifier designed for home audio systems. It features a rated power output of 70W + 70W RMS, with a peak power output of up to 600W. Equipped with dual TPA3116D2 chips, it delivers high-fidelity sound with low distortion. Key features include:

- **Audio Inputs:** Bluetooth 5.0, USB, 3.5mm AUX, RCA, Optical, and Coaxial.
- **Output:** Speaker terminals for passive speakers, and an active subwoofer output.
- **Tone Control:** Adjustable Treble and Bass.
- **Microphone Inputs:** Two microphone jacks with Echo and Delay functions for karaoke.
- **Radio:** Built-in FM radio tuner.
- **Compatibility:** Supports MP3, mobile phones, tablets, laptops, and TVs.

FULLY UPGRADED BLUETOOTH AUDIO AMPLIFIER

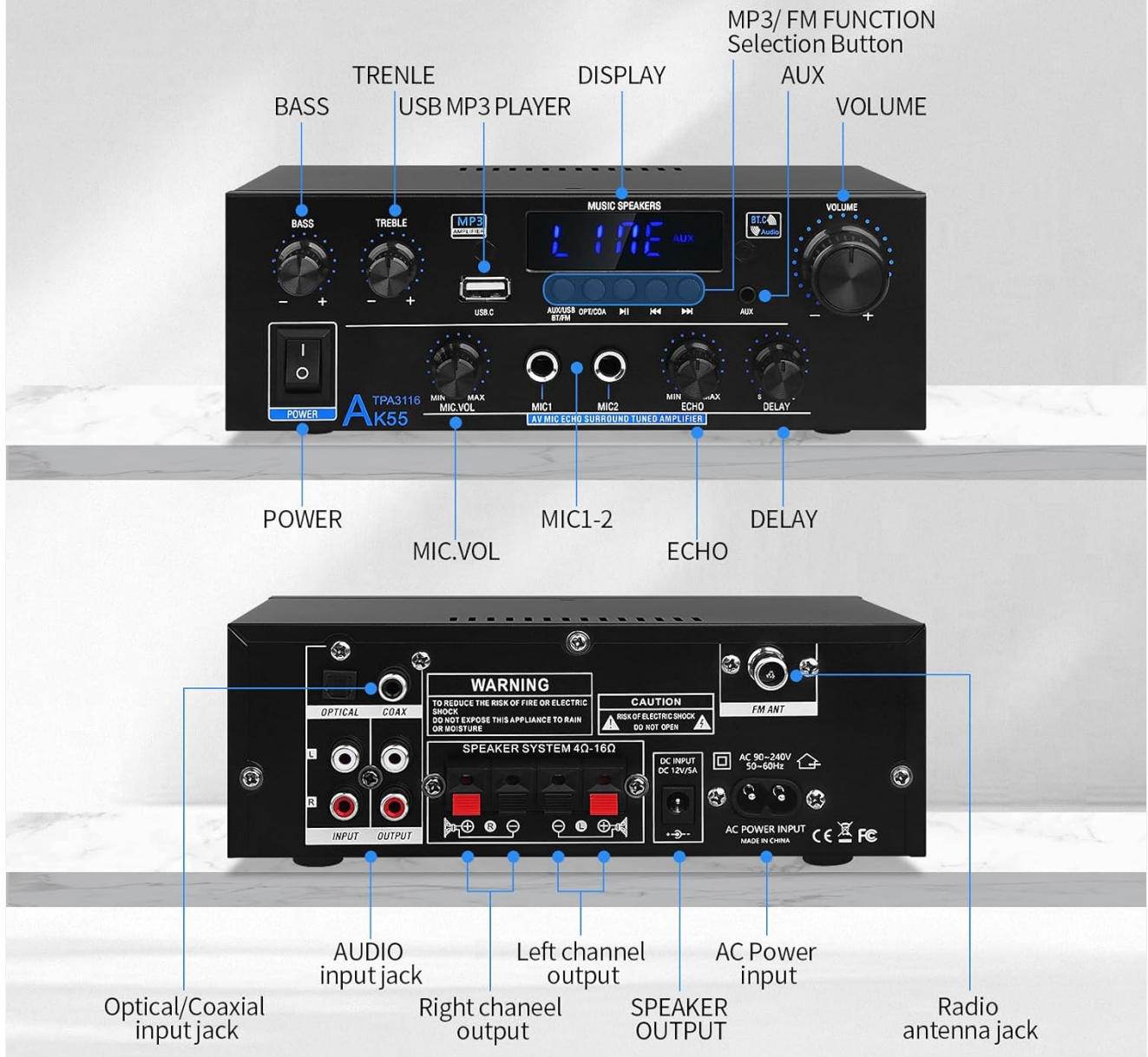


Figure 1: Front and Rear Panel Layout. This image displays the various controls on the front panel, including power switch, bass, treble, USB port, input selection buttons, microphone inputs, echo, delay, and volume knob. The rear panel shows speaker outputs, RCA inputs, optical, coaxial, AUX, FM antenna, and power input.

SIZE



PACKAGE LIST



(battery not included)

Remote Control



(US Plug, Cable Length: 100cm/39.3in)

Power Cable



FM Antenna



Manual

Figure 2: Product Dimensions. The amplifier measures approximately 20cm (7.87in) in width, 17.5cm (6.89in) in depth, and 7.5cm (2.95in) in height.

Setup

Follow these steps to set up your amplifier:

- 1. Speaker Connection:** Connect your passive speakers to the speaker output terminals on the rear panel. Ensure correct polarity (red to red, black to black) for each channel. The amplifier supports speaker systems with an impedance of 4-16Ω.
- 2. FM Antenna Connection:** Connect the provided FM antenna to the 'FM ANT' jack on the rear panel for radio reception.
- 3. Audio Source Connection:** Connect your audio sources (e.g., TV, CD player, smartphone) to the appropriate input jacks on the rear or front panel. Options include RCA (L/R), 3.5mm AUX, Optical, Coaxial, or USB.
- 4. Power Connection:** Ensure all audio connections are secure before connecting the power cable. Plug the power cable into the AC power input on the rear panel, then into a standard wall outlet (AC 90-240V, 50-60Hz).

MULTIPLE INPUT MODES

VCD/DVD/TV/PC Contact



Speakers Contact



Microphone Contact



Bluetooth 5.0 Input



Figure 3: Multiple Input Modes. This diagram shows how to connect various devices like VCD/DVD/TV/PC via RCA, speakers to the output terminals, microphones to the front jacks, and Bluetooth devices wirelessly.

Operating Instructions

This section details how to operate your ARRAROWN AK-55 Plus amplifier.

1. Power On/Off

Press the 'POWER' button on the front panel to turn the amplifier on or off. The display will illuminate when powered on.

2. Volume Control

Rotate the 'VOLUME' knob clockwise to increase volume and counter-clockwise to decrease it. Adjust to a comfortable listening level.

3. Input Selection

Use the 'MODE' button or the input selection buttons (AUX/USB/OPT/COA/BT/FM) on the front panel or remote

control to switch between different audio sources.

4. Bluetooth Pairing

1. Press the 'MODE' button until 'BLUE' appears on the display.
2. Enable Bluetooth on your mobile device and search for available devices.
3. Select 'AK55 Plus' from the list to pair. A confirmation sound will indicate successful pairing.
4. Once connected, you can play audio from your device through the amplifier.

Note: When using AUX/USB/RCA/Optical/Coaxial input, ensure the Bluetooth connection is disconnected from any paired device.



Figure 4: Bluetooth 5.0 Audio Streaming. The amplifier is shown connected to speakers, with a smartphone displaying a music app, indicating active Bluetooth audio playback.

5. USB Playback

Insert a USB flash drive containing MP3 audio files into the 'USB' port. The amplifier will automatically switch to USB mode and begin playback. Use the playback control buttons (play/pause, next/previous track) on the front panel or remote.

6. FM Radio Operation

Press the 'MODE' button to select FM radio. Use the tuning buttons to scan for stations. The amplifier can store over 20 FM stations.

7. Microphone and Karaoke Functions

Connect up to two microphones to the 'MIC1' and 'MIC2' jacks on the front panel. Adjust the 'MIC.VOL' knob to control microphone volume. Use the 'ECHO' and 'DELAY' knobs to add effects to your vocals.



Figure 5: Karaoke Setup. The amplifier's front panel is shown with two microphones plugged in, demonstrating the use of microphone volume, echo, and delay controls for karaoke.

8. Tone Control

Adjust the 'BASS' and 'TREBLE' knobs on the front panel to customize the low and high frequencies of your audio output.

HIFI AMPLIFIER WITH TREBLE AND BASS

AK-55 driver by dual TPA3116D2 chips, a high-performance class D power amplifier chip



Figure 6: Treble and Bass Adjustment. This image highlights the amplifier's internal TPA3116D2 chip and the external knobs for adjusting bass and treble to refine sound quality.

9. Remote Control Operation

The included remote control allows for convenient operation of power, volume, input selection, and playback functions from a distance.

GREAT FOR HOME THEATER SYSTEM USE



Figure 7: Home Theater Integration with Remote Control. The amplifier is shown as part of a home theater setup, with a hand holding the remote control, demonstrating ease of use.

Maintenance

Proper maintenance ensures the longevity of your amplifier:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the amplifier. Do not use liquid cleaners or solvents, as they may damage the finish or internal components.
- **Ventilation:** Ensure the amplifier has adequate ventilation. Do not block the ventilation openings on the top or sides of the unit.
- **Environment:** Avoid placing the amplifier in direct sunlight, near heat sources, or in areas with high humidity or dust.
- **Power Off:** Always turn off and unplug the amplifier from the power outlet before cleaning or when not in use for extended periods.

Troubleshooting

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

Problem	Possible Cause	Solution
No Sound Output	Power off; incorrect input selected; loose speaker connections; low volume.	Ensure power is on; select correct input source; check speaker wiring; increase volume.
Bluetooth Not Connecting	Amplifier not in Bluetooth mode; device too far; previously paired with another device.	Switch amplifier to 'BLUE' mode; move device closer (within 10m/32ft); disconnect from other devices.
Poor FM Reception	Antenna not connected or poorly positioned; weak signal.	Connect FM antenna securely; adjust antenna position for better reception.
Microphone Not Working	Microphone not plugged in correctly; MIC.VOL too low.	Ensure microphone is fully inserted; increase 'MIC.VOL' knob.

Specifications

- **Model:** AK55 Plus
- **Rated Power Output:** 70W + 70W RMS (2.0 Channel)
- **Peak Power Output:** Up to 600W
- **Amplifier Chip:** Dual TPA3116D2
- **Distortion Rate:** Less than 0.5%
- **Bluetooth Version:** 5.0
- **Bluetooth Range:** 10m / 32ft
- **Inputs:** Bluetooth, USB, 3.5mm AUX, RCA (L/R), Optical, Coaxial
- **Outputs:** Speaker terminals (4-16Ω), Active Subwoofer Output
- **Microphone:** 2 x MIC jacks with Echo and Delay
- **Radio:** FM Tuner (stores 20+ stations)
- **Power Input:** AC 90-240V, 50-60Hz
- **Item Weight:** 2.27 pounds
- **Package Dimensions:** 8.94 x 8.54 x 3.86 inches
- **Manufacturer:** DideaECO
- **Date First Available:** June 30, 2025

Warranty and Support

This product comes with a standard manufacturer's warranty. For specific warranty details, please refer to the product packaging or contact the seller directly. If you require technical assistance or have questions not covered in this manual, please reach out to the manufacturer or authorized support channels for further guidance.