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YGiTK AK-55

YGiTK Home Audio Amplifier User Manual

Model: AK-55

1. Introduction

Thank you for purchasing the YGiTK AK-55 Home Audio Amplifier. This wireless Bluetooth stereo receiver is designed to provide high-quality audio amplification for your home theater or karaoke system. With multiple input options, including Optical, USB/SD, AUX, RCA, and Microphone inputs, along with FM Radio and Bluetooth 5.0 connectivity, the AK-55 offers versatile audio playback. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your device.



Image: Front view of the YGiTK AK-55 Home Audio Amplifier, showcasing its compact design and front panel controls.

2. Safety Information

Please read all safety instructions carefully before using the amplifier. Keep this manual for future reference.

- **Speaker Connection Required:** This product is a power amplifier and cannot produce sound on its own. It must be connected to passive speakers to function correctly.
- **Power Supply:** Ensure the amplifier is connected to a power source within the specified voltage range (110V-220V).
- **Ventilation:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- **Water and Moisture:** Do not expose this appliance to rain or moisture. Do not place objects filled with liquids, such as vases, on the apparatus.
- **Heat Sources:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Cleaning:** Clean only with a dry cloth.

- **Servicing:** Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

3. Package Contents

Verify that all items are present in the package:

- 1 x YGiTK AK-55 Digital Amplifier
- 1 x Remote Control
- 1 x Power Cord
- 1 x User Manual (this document)
- 1 x 1.5m 3.5mm to 2-Male RCA Audio Stereo Cable



Image: Visual representation of the AK-55 amplifier, remote control, power cord, and audio cable, indicating the items included in the package.

4. Product Features

- **High Power Output:** RMS 70W + 70W, with a peak power of 450W + 450W, suitable for home theater and karaoke systems.
- **Multiple Audio Inputs:** Features Optical/Coaxial, 2 RCA audio inputs, 2 x 1/4" Microphone inputs, 3.5mm AUX input, USB, Bluetooth, and FM Radio.
- **Bluetooth 5.0 Connectivity:** Seamless wireless music streaming with a receiving range of up to 30ft/10m, compatible with smartphones, laptops, and other Bluetooth-enabled devices.
- **Optical/Coaxial Input:** Direct connection for TV audio output, eliminating the need for external converters.
- **EQ Control:** Independent rotary knobs for Microphone Volume, Bass, Treble, and Master Volume for precise audio adjustment.
- **User-Friendly Interface:** Equipped with an LCD digital display showing input mode, track, and folder name, along with a full-function remote control for convenient operation.



Image: The AK-55 amplifier shown with its remote control and icons highlighting key features like Microphone, FM Radio, HiFi, USB, and Bluetooth.

5. Setup Guide

5.1. Connecting Speakers

The AK-55 amplifier supports passive speakers with a load impedance of 4-16Ω.

1. Locate the "SPEAKER SYSTEM 4-16Ω" terminals on the rear panel of the amplifier.
2. Connect the positive (+) terminal of your speaker to the positive (+) terminal of the amplifier (usually red).
3. Connect the negative (-) terminal of your speaker to the negative (-) terminal of the amplifier (usually black).
4. Repeat for the second speaker, ensuring correct polarity for both left (L) and right (R) channels.



Image: The AK-55 amplifier positioned between two traditional wooden bookshelf speakers, demonstrating a typical setup.

5.2. Connecting Audio Sources

The amplifier offers various input options:

- **RCA Audio Input (AUX1/AUX2):** Connect devices like CD players, DVD players, or tape decks using RCA cables to the "AUDIO INPUT" jacks on the rear panel.
- **Optical/Coaxial Input (OPT/COA):** For digital audio from TVs or other compatible devices, connect an optical or coaxial cable to the "OPT/COA INPUT" on the rear panel.

- **AUX Input (3.5mm):** Use the 3.5mm AUX jack on the front panel for quick connection of smartphones or other portable devices.
- **USB/SD Card:** Insert a USB flash drive or SD card into the respective slots on the front panel for direct media playback.
- **Microphone Inputs (MIC1/MIC2):** Connect 1/4" microphones to the front panel jacks for karaoke or public address.



Image: Diagram of the rear panel of the AK-55 amplifier, clearly labeling the Audio Input (AUX1, AUX2), Speaker System outputs (R, L), 12V DC input, Optical/Coaxial input, and AC Power Input.



Image: The AK-55 amplifier connected to a television, highlighting the optical coaxial input for clearer audio playback from HDTVs.

5.3. Power Connection

Connect the provided power cord to the "AC POWER INPUT" on the rear panel of the amplifier and then plug it into a standard wall outlet (110V-220V).

5.4. Remote Control Preparation

Before first use, remove the isolation plastic sheet from the bottom of the remote control's battery compartment. If the remote control does not function, replace the battery with a CR2025 model battery.

6. Operating Instructions

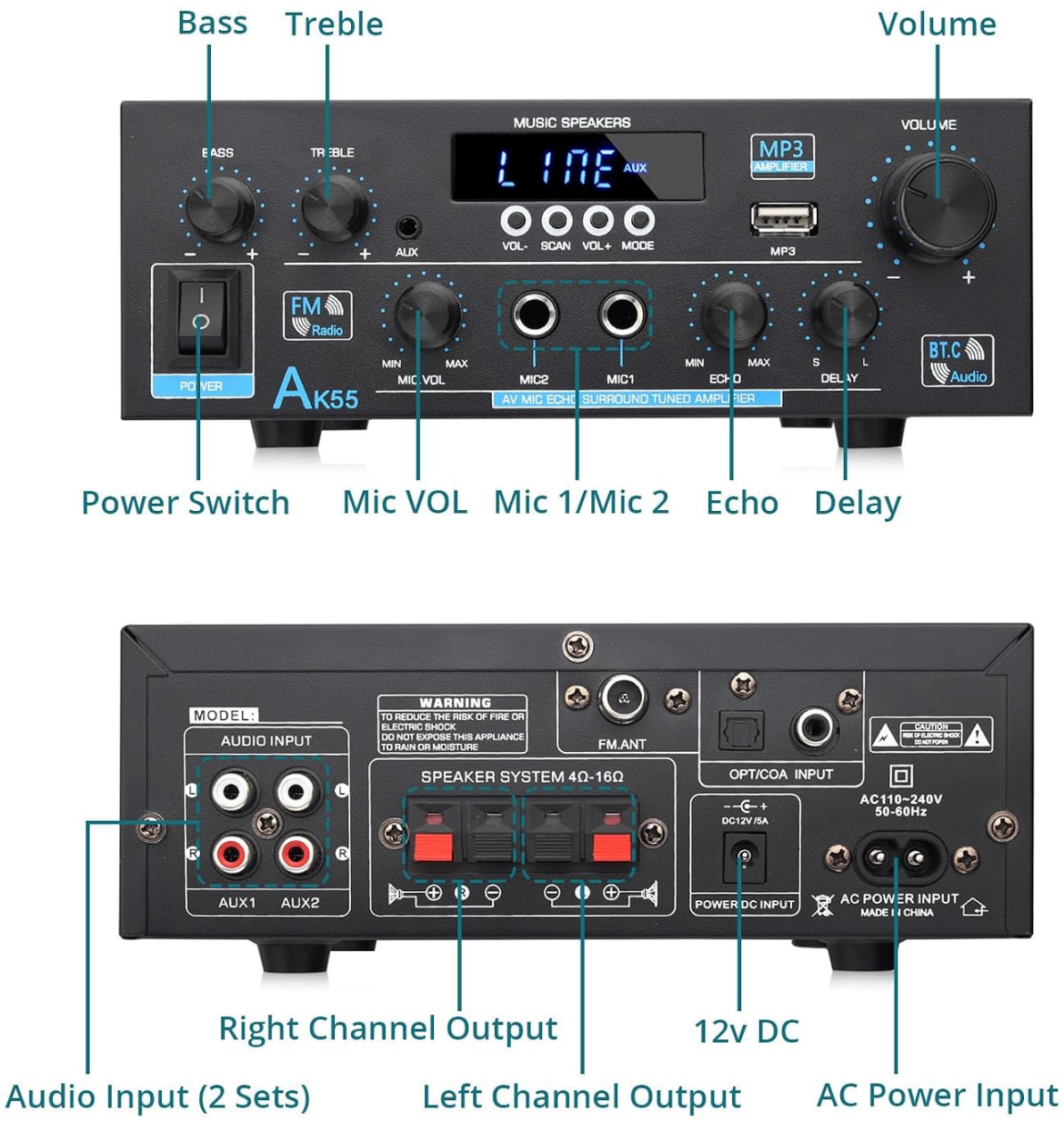

Image: Detailed diagram labeling all controls and ports on both the front and rear panels of the AK-55 amplifier for easy identification.

6.1. Powering On/Off

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

6.2. Input Selection

Use the "MODE" button on the front panel or remote control to cycle through available input sources (Bluetooth, USB/SD, AUX, Optical/Coaxial, RCA). The selected input will be displayed on the LCD screen.

6.3. Volume Control

Rotate the large "VOLUME" knob on the front panel to adjust the master output volume. You can also use the volume buttons on the remote control.

6.4. Tone Control (EQ)

Adjust the "BASS" and "TREBLE" rotary knobs on the front panel to fine-tune the low and high frequencies of your

audio output.

6.5. Microphone Usage

Connect microphones to the "MIC1" or "MIC2" jacks.

- **MIC VOL:** Adjust the microphone volume using the "MIC VOL" knob.
- **ECHO:** Control the echo effect for microphones with the "ECHO" knob.
- **DELAY:** Adjust the delay for the echo effect using the "DELAY" knob.

6.6. Bluetooth Pairing

1. Select "Bluetooth" mode using the "MODE" button. The LCD display will show "BLUE".
2. On your Bluetooth-enabled device (smartphone, tablet, computer), search for available Bluetooth devices.
3. Select "AK-55" from the list to pair. Once connected, you can stream audio wirelessly.



Image: An illustration showing the AK-55 amplifier connected via Bluetooth to a laptop and a smartphone, demonstrating its wireless connectivity range of 10 meters.

6.7. USB/SD Playback

Insert a USB flash drive or SD card into the corresponding slot. The amplifier will automatically switch to USB/SD mode and begin playing compatible audio files. Use the "PREVIOUS", "NEXT", and "PLAY/PAUSE" buttons on the front panel or remote control to manage playback.

6.8. FM Radio

Select "FM Radio" mode using the "MODE" button. Use the "SCAN" button to automatically scan and save available radio stations. Use the "PREVIOUS" and "NEXT" buttons to navigate between saved stations.

7. Maintenance

- **Cleaning:** Disconnect the power before cleaning. Use a soft, dry cloth to wipe the exterior of the amplifier. Do not use liquid cleaners or aerosol cleaners.
- **Storage:** When not in use for extended periods, store the amplifier in a cool, dry place away from direct sunlight and extreme temperatures.
- **Ventilation:** Ensure the ventilation openings are free from dust and debris to prevent overheating.

8. Troubleshooting

Problem	Possible Cause	Solution
No sound output	◦ Amplifier not powered on. ◦ Speakers not connected or incorrectly wired. ◦ Incorrect input source selected. ◦ Volume too low. ◦ Audio source not playing or faulty.	◦ Press the POWER button. ◦ Check speaker connections and polarity. ◦ Press MODE to select the correct input. ◦ Increase the VOLUME knob. ◦ Verify audio source functionality.
Remote control not working	◦ Isolation plastic sheet not removed. ◦ Battery is dead or inserted incorrectly. ◦ Obstruction between remote and amplifier.	◦ Remove the plastic sheet from the battery compartment. ◦ Replace with a new CR2025 battery, ensuring correct polarity. ◦ Ensure clear line of sight to the amplifier's IR receiver.
Bluetooth connection issues	◦ Amplifier not in Bluetooth mode. ◦ Device too far from amplifier. ◦ Previous device still connected.	◦ Select Bluetooth mode on the amplifier. ◦ Move device closer (within 10m/30ft). ◦ Disconnect from the previous device or turn off its Bluetooth.
Distorted sound	◦ Volume too high. ◦ Incorrect speaker impedance. ◦ Poor audio source quality.	◦ Reduce the volume. ◦ Ensure speakers are within 4-16Ω impedance range. ◦ Try a different audio source or cable.

9. Specifications

Feature	Detail

Feature	Detail
Brand	YGiTK
Model	AK-55
Bluetooth Version	5.0
Voltage	110V-220V
RMS Power Output	70W x 2 Channels
Peak Power Output	450W x 2 Channels
Load Impedance	4-16Ω
Impedance	4-8 ohm
Channel	2.0
SNR (Signal-to-Noise Ratio)	85 dB
Resolution	47K
Distortion Rate	0.05%
Package Dimensions	9.96 x 8.9 x 3.94 inches
Item Weight	2.47 Pounds
Date First Available	February 27, 2024
Country of Origin	China

10. Warranty and Support

10.1. Warranty Information

This YGiTK product is covered by a standard manufacturer's warranty. Please refer to the product packaging or contact your retailer for specific warranty terms and conditions. Keep your purchase receipt as proof of purchase for warranty claims.

10.2. Customer Support

For any questions, technical assistance, or support regarding your YGiTK AK-55 amplifier, please contact the seller or manufacturer directly through the platform where you purchased the product. Provide your model number (AK-55) and a detailed description of your issue for prompt assistance.

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Details

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