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KKMOL AK45

KKMOL AK45 Mini Bluetooth Stereo Audio Amplifier User Manual

Model: AK45

1. INTRODUCTION

The KKMOL AK45 Mini Bluetooth Stereo Audio Amplifier is a versatile 2-channel audio receiver designed for home audio systems. It features Bluetooth 5.0 connectivity, USB and SD card inputs, FM radio, and microphone inputs, offering multiple options for audio playback and entertainment. This amplifier supports both AC 90-240V and DC 12V/5A power inputs, making it suitable for various applications.



Image 1.1: KKMOL AK45 Amplifier with included accessories (remote control, power cable).



Image 1.2: Overview of the KKMOL AK45 Stereo Home Audio Bluetooth Amplifier highlighting its 2.0 channel and Bluetooth 5.0 capabilities.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating this device. Keep this manual for future reference.

- **Keep out of reach of children:** This product contains electronic components that could be hazardous if mishandled by children.
- **Do not disassemble or modify:** The amplifier contains electronic parts. Do not attempt to disassemble, repair, or modify the product yourself. Unauthorized modifications may result in electric shock, fire, or damage to the device, and will void the warranty.
- **Power Supply:** Ensure the correct power supply (AC 90-240V or DC 12V/5A) is used. Incorrect voltage can damage the device.
- **Ventilation:** Do not block ventilation openings. Ensure adequate airflow around the unit to prevent overheating.
- **Moisture:** Do not expose the unit to rain, moisture, or excessive humidity.
- **Cleaning:** Disconnect the power before cleaning. Use a dry, soft cloth. Do not use liquid cleaners or aerosols.



Image 2.1: Safety warning regarding keeping the product out of reach of children.

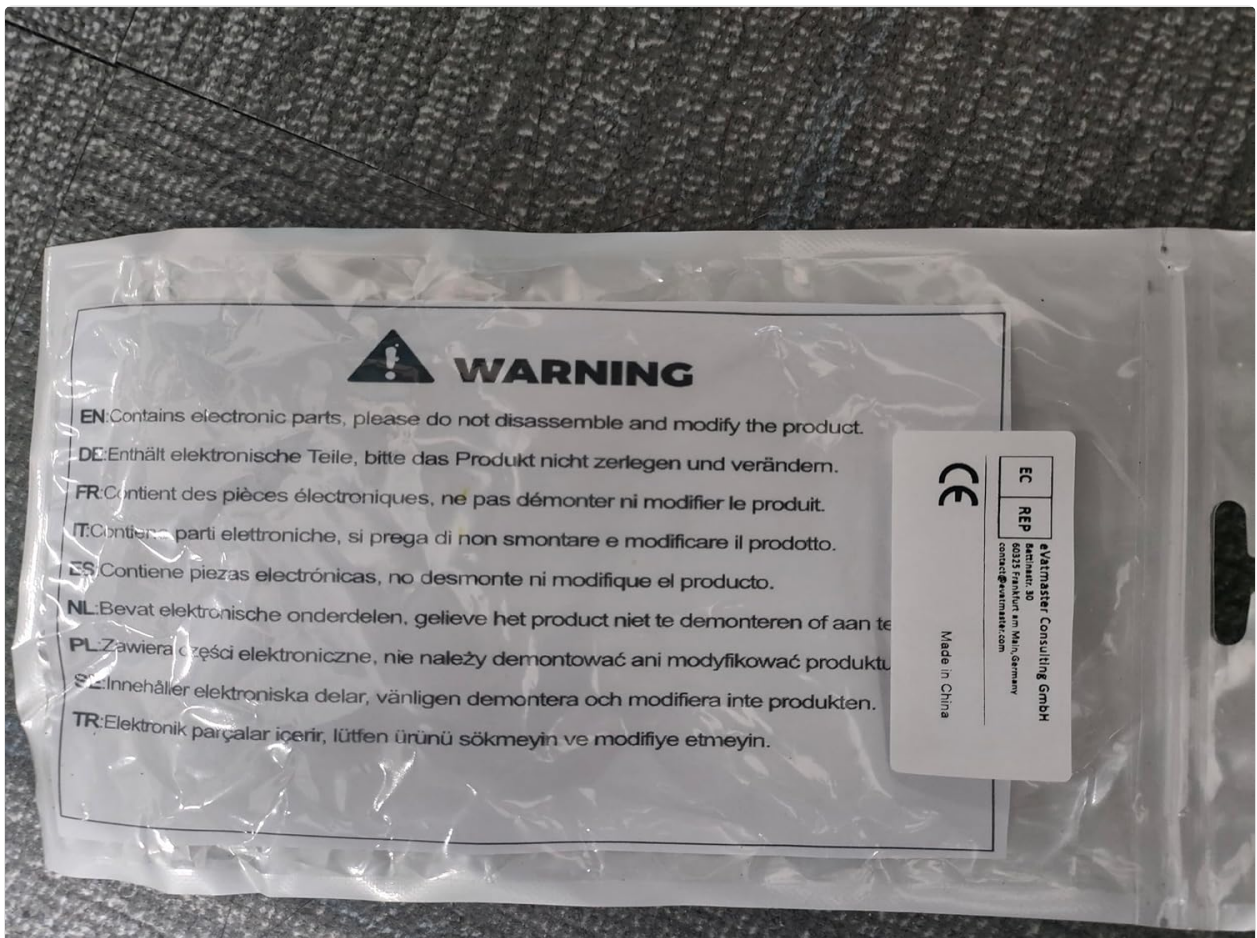


Image 2.2: Safety warning against disassembling or modifying the electronic product.

3. PRODUCT OVERVIEW

3.1 Front Panel Controls and Inputs



Image 3.1: Detailed diagram of the amplifier's front and rear panels, indicating various controls and connection points.

- **Power Switch:** Turns the amplifier on or off.
- **USB Interface:** For connecting USB flash drives.
- **SD/MMC Card Slot:** For inserting SD or MMC memory cards.
- **Display Screen:** Shows current mode, track information, and FM frequency.
- **Mode Button:** Switches between input modes (Bluetooth, USB, SD, AUX, FM).
- **Previous/Next Buttons:** Navigates tracks or FM stations.
- **Play/Pause Button:** Controls playback for USB/SD and Bluetooth.
- **Loop Mode Button:** For repeating tracks during USB/SD playback.
- **Treble Knob:** Adjusts high-frequency audio levels.
- **Bass Knob:** Adjusts low-frequency audio levels.
- **MIC/VOL Knob:** Adjusts microphone volume.
- **MIC1/MIC2 Inputs:** 6.5mm jacks for connecting microphones.
- **Remote Sensor:** Receives signals from the remote control.
- **Master Volume Knob:** Controls the overall output volume.

3.2 Rear Panel Connections

- **FM Antenna:** Connection point for the FM radio antenna.
- **Audio Input (RCA):** For connecting external audio sources (CD, DVD, TV, etc.) via RCA cables.
- **Speakers Output:** Terminals for connecting passive speakers (Left and Right channels). Supports 4-16 Ohm impedance.
- **DC 12V Power Input:** For connecting a 12V/5A DC power adapter.
- **AC 90-240V Power Input:** For connecting the AC power cord.

4. SETUP

4.1 Power Connection

1. Ensure the amplifier's power switch is in the 'OFF' position.
2. Choose your power source:
 - **AC Power:** Connect the provided AC power cord to the AC 90-240V input on the rear panel, then plug it into a wall outlet.
 - **DC Power:** Connect a 12V/5A DC power adapter (not included) to the DC 12V input on the rear panel.

4.2 Speaker Connection

1. Connect your passive speakers to the 'SPEAKERS OUTPUT' terminals on the rear panel.
2. Ensure correct polarity: connect the positive (+) terminal of the amplifier to the positive (+) terminal of the speaker, and the negative (-) terminal of the amplifier to the negative (-) terminal of the speaker.
3. The amplifier supports speakers with an impedance of 4-16 Ohms.

4.3 Audio Input Connection

The AK45 amplifier offers multiple ways to connect audio sources:

- **Bluetooth:** For wireless connection from smartphones, tablets, or computers.
- **USB/SD Card:** For playing audio files directly from flash drives or SD cards.
- **AUX (RCA Audio Input):** For wired connection from CD players, DVD players, TVs, or other devices with RCA audio output.

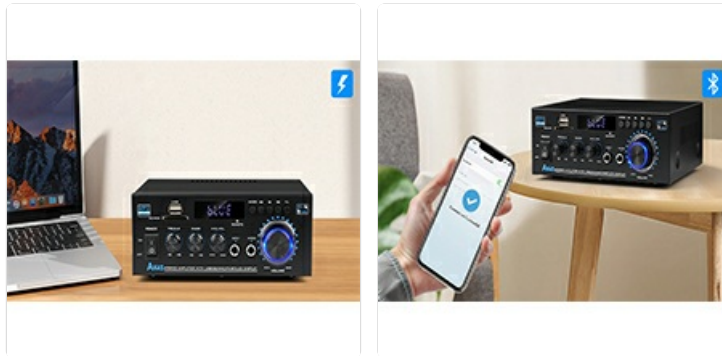


Image 4.1: Examples of connecting the amplifier to a laptop (wired) and a smartphone (Bluetooth).

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Flip the 'POWER' switch on the front panel to the 'ON' position to turn on the amplifier. Flip it to 'OFF' to power down.

5.2 Mode Selection

Press the 'MODE' button on the front panel or the remote control to cycle through available input modes: Bluetooth, USB, SD, AUX, and FM radio. The current mode will be displayed on the screen.

5.3 Bluetooth Pairing

1. Switch the amplifier to Bluetooth mode using the 'MODE' button. The display will show 'BLUE' or a similar indicator.
2. On your device (smartphone, tablet, computer), enable Bluetooth and search for available devices.
3. Select 'BT' (or similar name) from the list of devices to pair. No password is required.
4. Once paired, you can play audio from your device through the amplifier. Keep a distance of 10 meters without obstacles for optimal connection, or 5 meters if connecting to a TV or computer.



Image 5.1: The amplifier in Bluetooth mode, demonstrating wireless audio streaming from a smartphone.

5.4 USB/SD Card Playback

1. Insert a USB flash drive into the USB port or an SD/MMC card into the SD card slot.
2. The amplifier should automatically switch to USB or SD mode and begin playing audio files. If not, press the 'MODE' button to select the correct input.
3. Use the 'Previous', 'Next', and 'Play/Pause' buttons on the front panel or remote control to manage playback.
4. The 'Loop Mode' button allows you to repeat tracks.

5.5 FM Radio Operation

1. Ensure the FM antenna is connected to the rear panel.
2. Switch the amplifier to FM mode using the 'MODE' button.
3. The amplifier can automatically scan and store over 20 radio stations. Use the 'Previous' and 'Next' buttons to navigate through stored stations.

5.6 Microphone Usage

1. Connect up to two microphones to the 'MIC1' and 'MIC2' 6.5mm input jacks on the front panel.
2. Adjust the microphone volume using the 'MIC/VOL' knob.

5.7 Tone Control

Use the 'TREBLE' and 'BASS' knobs on the front panel to adjust the high and low frequencies of the audio

output, respectively. This allows for fine-tuning the sound to your preference.



Image 5.2: Close-up view of the Treble and Bass adjustment knobs.

5.8 Volume Control

The 'VOLUME' knob on the front panel controls the master output volume of the amplifier. Rotate clockwise to increase volume and counter-clockwise to decrease.



Image 5.3: Close-up view of the main volume control knob.

5.9 Remote Control Usage

The included remote control allows for convenient operation from a distance. Ensure the insulating plastic tab at the bottom of the remote is removed before first use. The remote can control power, mode selection, volume, track navigation, and equalization settings.



Image 5.4: The remote control for the KKMOL AK45 amplifier.

6. TROUBLESHOOTING

- **No Power:** Check if the power cord is securely connected and the power switch is 'ON'. Verify the power outlet is functional.
- **No Sound:**
 - Ensure speakers are correctly connected and their volume is not muted.
 - Check the amplifier's master volume and input source volume.
 - Verify the correct input mode is selected (Bluetooth, USB, SD, AUX).
 - If using Bluetooth, ensure the device is paired and within range.
- **Distorted Sound:**
 - Reduce the volume of the amplifier or the input source.
 - Check speaker connections for loose wires or incorrect polarity.
 - Ensure speaker impedance is within the supported 4-16 Ohm range.
- **Bluetooth Connection Issues:**
 - Ensure the amplifier is in Bluetooth mode.
 - Move your Bluetooth device closer to the amplifier (within 10 meters, or 5 meters for TV/PC).
 - Turn off and on Bluetooth on your device, then try pairing again.
 - Clear previous Bluetooth pairings on your device if necessary.

- **USB/SD Card Not Playing:**

- Ensure the USB drive or SD card is inserted correctly.
- Verify the audio files are in a compatible format.
- Check if the amplifier is in USB or SD mode.

- **Remote Control Not Working:**

- Ensure the insulating plastic tab has been removed from the battery compartment.
- Check the battery in the remote control and replace if necessary.
- Point the remote directly at the amplifier's remote sensor.

7. SPECIFICATIONS

Feature	Specification
Model	AK45
Brand	KKMOL
Channels	2.0
Rated Power Output	40W + 40W
Peak Power Output	300W + 300W
Power Input	AC 90-240V / 50Hz-60Hz, DC 12V/5A
Bluetooth Version	5.0
Distortion Rate	≤0.2%
Signal-to-Noise Ratio (SNR)	≥95dB
Speaker Impedance	4-16 Ohms
Frequency Response	20Hz-20KHz
FM Radio Frequency	87.5-108MHz
Connectivity	Bluetooth, USB, SD Card, AUX (RCA), FM Radio
Special Features	Microphone Inputs, Treble/Bass Control, Remote Control
Dimensions (L x W x H)	18 cm x 14 cm x 6.5 cm (approx.)
Item Weight	890 g



Produktmerkmale		
Modell: AK-45	Kanal: 2 Kanäle	Verzerrungsgrad: 0.2%
Stromversorgung: AC 90V-240V/ 50Hz-60Hz, DC 12V	Frequenz: 20Hz-20KHz	SNR: >92dB
Lautsprecher-Impedanz: 4-16 Ohm	Nennleistung: 40Wx2	Auflösung: 47K
Spitzenleistung: 400W + 400w	FM-Radiofrequenz: 87.5-108MHZ	

Image 7.1: Visual representation of amplifier dimensions and a summary of product features and specifications.

8. MAINTENANCE

- **Cleaning:** Disconnect the power before cleaning. Use a soft, dry cloth to wipe the exterior of the amplifier. Do not use abrasive cleaners, solvents, or chemical sprays.
- **Storage:** When not in use for extended periods, store the amplifier in a cool, dry place away from direct sunlight and extreme temperatures.
- **Ventilation:** Regularly check that the ventilation openings are clear of dust and debris to ensure proper heat dissipation.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact KKMOL customer service directly. Keep your proof of purchase for any warranty claims.

