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> Fricienc AV-628BT Bluetooth Stereo Audio Amplifier User Manual

## Fricienc ME-HJWJL-080-EU

# Fricienc AV-628BT Bluetooth Stereo Audio Amplifier User Manual

Model: ME-HJWJL-080-EU

## 1. INTRODUCTION

Thank you for choosing the Fricienc AV-628BT Bluetooth Stereo Audio Amplifier. This amplifier is designed to provide a high-quality audio experience for your home theater, karaoke, and general music listening needs. Featuring a 5.1 surround sound channel, 600W maximum power output, and versatile connectivity options, it delivers powerful and clear sound. Please read this manual carefully before operating the device to ensure proper use and to maximize its performance and lifespan.



Figure 1.1: Fricienc AV-628BT Bluetooth Stereo Audio Amplifier

This image shows the overall design of the Fricienc AV-628BT amplifier, highlighting its sleek black finish and front panel controls.

## 2. PRODUCT FEATURES

- **High-Fidelity Sound:** Equipped with an upgraded audio processing chip, this amplifier offers low distortion, a wide frequency response, and rich dynamic power. Its analog components ensure true music restoration and Hi-Fi sound effects.
- **Intuitive Visualization:** The integrated LED screen dynamically displays working status, volume levels, and input signals. The user-friendly control panel allows for quick function access and adjustments.
- **Remarkable Compatibility:** Supports various external signal sources including SD card insertion, RCA audio input, AUX, USB interface, and dual microphone inputs. Features built-in FM radio and Bluetooth 5.0 reception for seamless connection with MP3 players, smartphones, and tablets.
- **Durable Construction:** Designed with multiple heat dissipation holes to prevent overheating during operation. Constructed from high-quality aluminum alloy for excellent corrosion protection and extended lifespan.
- **Outstanding Performance:** Boasts a 5.1 surround sound channel and a powerful maximum output of 600W, making it ideal for home theater systems, various speaker types, and karaoke setups. Delivers full and powerful sound for a high-quality audio experience.



Figure 2.1: High-Fidelity Sound Capabilities

This image illustrates the key aspects of the amplifier's high-fidelity sound, including an upgraded audio processing chip, low distortion (0.5%), wide frequency response range, and the use of analog components.



Figure 2.2: Versatile Input Options

This image highlights the amplifier's remarkable compatibility, showcasing its support for SD Card, AUX, RCA, USB, and Microphone inputs, allowing connection to various audio sources.

### 3. PACKAGE CONTENTS

Please check the package carefully to ensure all items are present and in good condition:

- 1 x Fricienc AV-628BT Audio Amplifier
- 1 x Radio Antenna
- 1 x Remote Control
- 1 x English/Chinese User Manual

### 4. PRODUCT LAYOUT AND CONTROLS

Familiarize yourself with the amplifier's front and back panels to understand its various controls and connection points.



Figure 4.1: Front and Back Panel Overview

This image provides a detailed diagram of both the front and back panels of the amplifier, labeling all buttons, knobs, and ports for easy identification.

## 4.1 Front Panel Controls

1. **Power Switch:** Turns the amplifier on or off.
2. **SD Card Insertion:** Slot for inserting an SD memory card.
3. **USB Interface:** Port for connecting USB flash drives.
4. **Setting Button:** Used for navigating menus or selecting modes.
5. **MIC Input (MIC1, MIC2):** 6.35mm jacks for connecting microphones.
6. **MIC Volume Adjustment:** Knob to control the volume of connected microphones.
7. **MIC Bass Adjustment:** Knob to adjust the bass level for microphones.
8. **MIC Treble Adjustment:** Knob to adjust the treble level for microphones.
9. **Echo Adjustment:** Knob to control the echo effect for microphones.

10. **Music Volume Adjustment:** Main knob to control the overall music volume.
11. **Balance Knob:** Adjusts the balance between left and right audio channels.
12. **Loudness:** Button to enhance bass and treble at low volumes.
13. **Music Treble Adjustment:** Knob to adjust the treble level for music playback.
14. **Music Bass Adjustment:** Knob to adjust the bass level for music playback.

## 4.2 Back Panel Connections

15. **RCA Input:** Red and white RCA jacks for connecting external audio sources (e.g., DVD player, CD player).
16. **LINE Output:** Audio output for connecting to other audio devices.
17. **Speaker Output (L/R):** Terminals for connecting passive speakers (Left and Right channels).
18. **SR SL C Speaker Output:** Terminals for connecting surround right, surround left, and center speakers (for 5.1 channel setup).
19. **FM ANT:** Connector for the FM radio antenna.
20. **Power Line:** Input for the power cable.

## 5. SETUP GUIDE

Follow these steps to set up your Fricienc AV-628BT amplifier:

1. **Placement:** Place the amplifier on a stable, flat surface with adequate ventilation. Ensure there is enough space around the unit for heat dissipation.
2. **Speaker Connection:** Connect your passive speakers to the **Speaker Output (L/R)** terminals on the back panel. For a 5.1 channel setup, connect your surround and center speakers to the **SR SL C Speaker Output** terminals. Ensure correct polarity (+ to + and - to -).
3. **Audio Source Connection:**
  - **RCA:** Connect your audio source (e.g., DVD player, TV) to the **RCA Input** jacks using an RCA cable.
  - **AUX:** Connect devices with a 3.5mm audio output to the AUX input (often shared with RCA or a dedicated 3.5mm jack, refer to Figure 4.1).
  - **USB:** Insert a USB flash drive into the **USB Interface**.
  - **SD Card:** Insert an SD card into the **SD Card Insertion** slot.
  - **Microphones:** Connect microphones to the **MIC Input** jacks.
4. **FM Antenna Connection:** Connect the included radio antenna to the **FM ANT** connector for improved FM radio reception.
5. **Power Connection:** Ensure the amplifier's power switch is in the OFF position. Connect the power cable to the **Power Line** input on the back panel, then plug the other end into a suitable 220V AC power outlet.

## 6. OPERATING INSTRUCTIONS

### 6.1 Basic Operation

1. **Power On:** Flip the **Power Switch** to the ON position. The LED display will light up.
2. **Select Input Source:** Use the **Setting Button** on the front panel or the remote control to cycle through input sources (Bluetooth, USB, SD, RCA/AUX, FM). The selected source will be displayed on the LED screen.
3. **Adjust Volume:** Rotate the large **Music Volume Adjustment** knob to set the desired listening volume.
4. **Adjust Tone:** Use the **Music Bass Adjustment** and **Music Treble Adjustment** knobs to fine-tune the audio's bass and treble levels.

5. **Balance Adjustment:** Use the **Balance Knob** to adjust the left/right channel balance if needed.
6. **Loudness Function:** Press the **Loudness** button to enhance bass and treble at lower volume levels. Press again to deactivate.

## 6.2 Bluetooth Connectivity

1. Select the Bluetooth input source on the amplifier. The LED display will show "BT" or a similar indicator.
2. On your mobile device (smartphone, tablet, etc.), enable Bluetooth and search for available devices.
3. Select "AV-628BT" or a similar name from the list of found devices.
4. Once paired, you can play audio from your device through the amplifier. The effective Bluetooth range is approximately 10 meters (32.8 feet).

## 6.3 USB/SD Card Playback

1. Insert your USB flash drive into the **USB Interface** or your SD card into the **SD Card Insertion** slot.
2. The amplifier should automatically switch to USB or SD mode. If not, select the appropriate input source using the **Setting Button**.
3. Use the playback controls (Play/Pause, Next/Previous Track) on the front panel or remote control to manage your music.

## 6.4 FM Radio Operation

1. Ensure the FM antenna is properly connected.
2. Select the FM radio input source.
3. Use the tuning buttons on the front panel or remote control to scan for radio stations.

## 6.5 Karaoke Function

1. Connect your microphones to the **MIC Input** jacks.
2. Adjust the microphone volume using the **MIC Volume Adjustment** knob.
3. Fine-tune the microphone's bass and treble using the **MIC Bass Adjustment** and **MIC Treble Adjustment** knobs.
4. Add an echo effect using the **Echo Adjustment** knob for a more professional karaoke sound.

# Practical Details



**Stable Feet**  
Prevent Slipping &  
Avoid Scratching Ground



**Remote Controller**  
About 6m/19.7ft  
Available Range to Fully Control



**Knob Design**  
Convenient to Operate



Figure 6.1: Remote Control and Knob Design

This image illustrates the practical design elements of the amplifier, including its stable anti-slip feet, the included remote controller (with an available range of over 6 meters), and the convenient knob design for easy operation.

## 7. MAINTENANCE

Proper maintenance will ensure the longevity and optimal performance of your amplifier:

- **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 sprays, as they may damage the unit.
- **Ventilation:** Ensure that the ventilation holes on the amplifier are not blocked. Adequate airflow is crucial to prevent overheating.
- **Storage:** If storing the amplifier for an extended period, disconnect it from power and store it in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or subjecting the amplifier to strong impacts, which can damage internal components.

# Thoughtful Design



**Timely Heat  
Dissipation**



**Corrosion  
Prevention Material**



**5.0 Bluetooth  
Transmission**

**BT Range: ≤10m/32.8ft**



Figure 7.1: Thoughtful Design for Durability

This image highlights the amplifier's thoughtful design, emphasizing timely heat dissipation through vents and the use of corrosion-prevention materials, contributing to its durability and safe operation.

## 8. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No power	Power cable not connected; Power outlet faulty; Power switch off	Check power cable connection; Try a different outlet; Ensure power switch is ON
No sound output	Incorrect input source selected; Speaker cables loose/incorrectly connected; Volume too low; Mute function active	Select correct input source; Check speaker connections and polarity; Increase volume; Deactivate mute if applicable

Problem	Possible Cause	Solution
Distorted sound	Volume too high; Input source signal too strong; Speaker impedance mismatch	Reduce volume; Check input source level; Ensure speakers are within 4Ω-16Ω impedance range
Bluetooth connection issues	Device too far; Amplifier not in Bluetooth mode; Interference	Move device closer (within 10m); Select Bluetooth input; Reduce interference from other wireless devices
Remote control not working	Batteries dead/incorrectly inserted; Obstruction between remote and amplifier	Replace batteries; Ensure clear line of sight to amplifier's IR receiver

If the problem persists after trying these solutions, please contact customer support.

## 9. SPECIFICATIONS

Feature	Specification
Model Number	ME-HJWJL-080-EU
Material	Aluminum Alloy
Color	Black
Input Type	SD, USB, RCA/AUX, Bluetooth 5.0
Output Type	Speaker
Control Methods	Manual / Remote Control
Distortion Rate	0.5% (below rated power)
Surround Sound Channel	5.1 Channels
Voltage	220 V
Max. Power	600 W
Rated Power	200 W + 200 W
Impedance	4Ω - 16Ω
RMS	45 W + 45 W
Resolution	38 dB
SNR (Signal-to-Noise Ratio)	78 dB
Number of Mic Sockets	2
Bluetooth Range	≤ 10 m (32.8 ft)

Feature	Specification
Remote Control Range	More than 6 m (19.7 ft)
Product Dimensions (L x W x H)	42.7 x 28 x 6.6 cm (16.8 x 11 x 2.6 inches)
Net Weight	3.4 kg (7.5 lbs)

## 10. WARRANTY AND SUPPORT

This Fricienc AV-628BT amplifier comes with a **2-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

The warranty does not cover:

- Damage caused by accident, abuse, misuse, flood, fire, earthquake, or other external causes.
- Damage caused by operating the product outside the permitted or intended uses described in this manual.
- Damage caused by service performed by anyone who is not an authorized service provider.
- Products or parts that have been modified to alter functionality or capability without the written permission of the manufacturer.

For warranty claims or technical support, please contact your retailer or the manufacturer's customer service. Please have your purchase receipt and product model number ready.



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*Please read this manual carefully and retain it for future reference.*