

## CAMWAY b489e6df-a021-4e09-9cab-71980a4ab31a

# CAMWAY Bluetooth 5.0 Audio Amplifier with Waterproof Box Instruction Manual

Model: b489e6df-a021-4e09-9cab-71980a4ab31a

## 1. INTRODUCTION AND OVERVIEW

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The CAMWAY Bluetooth 5.0 Audio Amplifier is designed to provide high-quality audio for outdoor and indoor speaker systems. It features a robust TPA3221 digital amplifier chip, delivering 200W + 200W peak power output. The amplifier comes with a waterproof installation box, offering protection against water, sun, and dust, making it suitable for various environments such as patios, gardens, poolside areas, garages, porches, and workshops. This amplifier supports Bluetooth V5.0 connectivity, allowing wireless streaming of music from your smartphone or tablet up to a maximum distance of 15 meters (50 feet). It is compatible with passive speakers with an impedance of 4-8 Ohms.

# BLUETOOTH 5.0 POWER AMPLIFIER RECEIVER

Maximum distance up to 50ft(15M)



Figure 1: CAMWAY Bluetooth 5.0 Audio Amplifier in an outdoor setting, demonstrating wireless connectivity.

## 2. WHAT'S IN THE BOX

Please check the package contents to ensure all items are present and in good condition.

- 1 x CAMWAY Bluetooth Power Amplifier
- 1 x Waterproof Plastic Box
- 1 x AC Power Cord (5ft/1.5m)
- 1 x User's Manual

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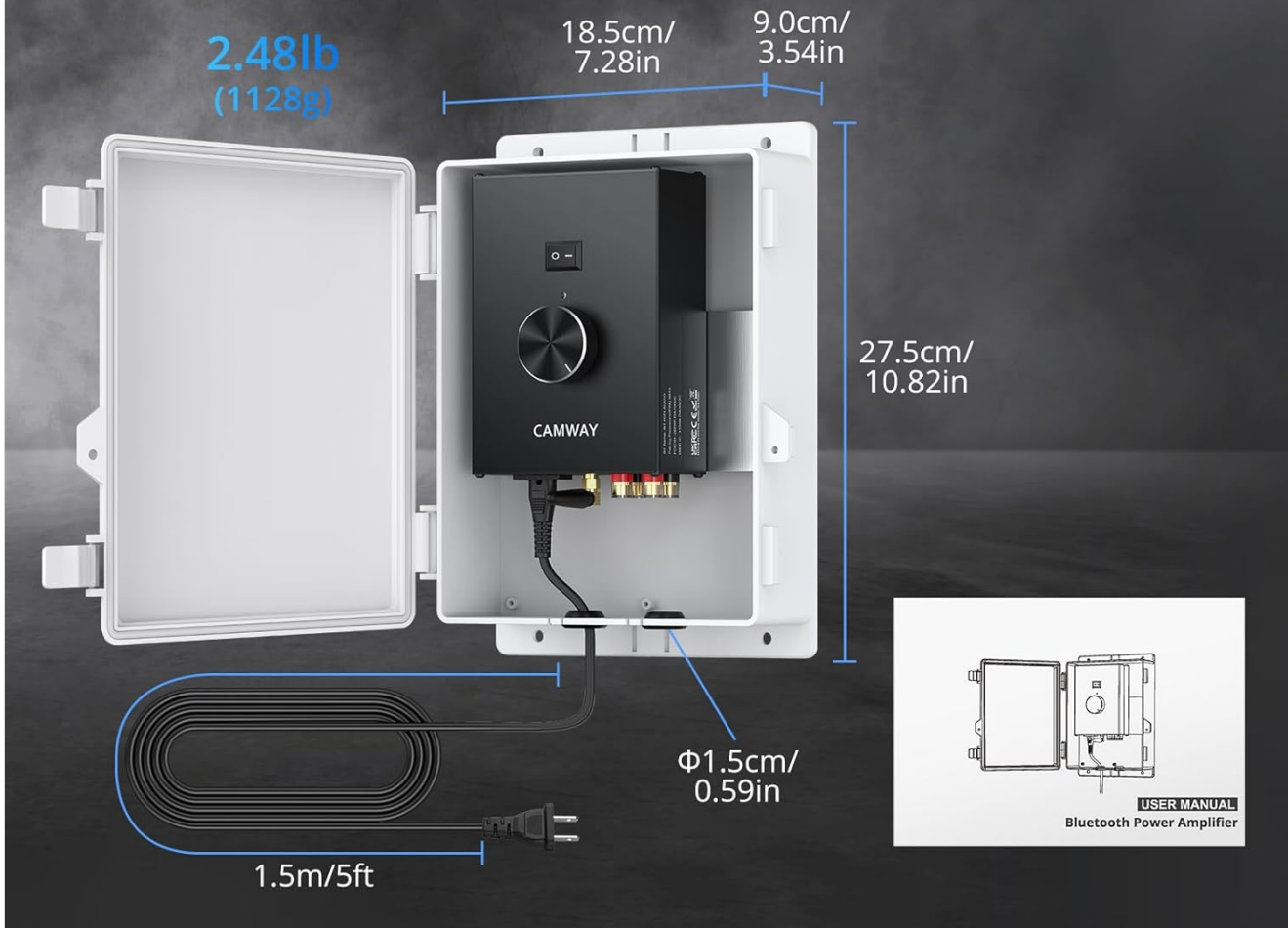


Figure 2: Package contents of the CAMWAY Bluetooth 5.0 Audio Amplifier.

### 3. SETUP INSTRUCTIONS

Follow these steps to set up your CAMWAY Bluetooth Audio Amplifier.

#### 3.1 Mounting the Waterproof Box

1. Choose a suitable location for the waterproof box, ensuring it is within reach of your passive speakers and a power outlet.
2. Use the provided installation screws to securely mount the waterproof box to a wall or other stable surface. The box is designed with external holes for easy surface installation.
3. Ensure the box is mounted in an orientation that allows for proper cable management and access to the amplifier controls if needed.

#### 3.2 Connecting Speakers

The amplifier is designed for passive speakers with 4-8 Ohm impedance. Ensure your speakers meet these requirements.

1. Open the waterproof box.
2. Connect your passive speakers to the speaker output terminals on the amplifier. The terminals are typically color-coded (red for positive, black for negative).
3. Carefully route the speaker wires through the designated access ports at the bottom of the waterproof box. Ensure a tight seal around the wires to maintain waterproofing.

### 3.3 Connecting Power

1. Connect the AC power cord to the power interface on the amplifier.
2. Route the power cord through an access port in the waterproof box, ensuring a secure and waterproof connection.
3. Plug the AC power cord into a standard electrical outlet.



Figure 3: Example of outdoor setup with the amplifier connected to passive speakers.



Figure 4: Amplifier inside the waterproof box with power connection.

## 4. OPERATING INSTRUCTIONS

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This section details how to operate your CAMWAY Bluetooth Audio Amplifier.

### 4.1 Powering On/Off

1. Locate the power switch on the amplifier unit.
2. Flip the switch to the 'ON' position to power on the amplifier. The Power/Bluetooth Indicator Light will illuminate.
3. To power off, flip the switch to the 'OFF' position.

### 4.2 Bluetooth Pairing

1. Ensure the amplifier is powered on and the Bluetooth indicator light is blinking, indicating it is in pairing mode.
2. On your smartphone or tablet, navigate to the Bluetooth settings.
3. Search for available devices. The amplifier should appear as "BT HIFI AUDIO" or a similar name.
4. Select the amplifier from the list to pair. Once successfully paired, the Bluetooth indicator light will become

solid.

5. You can now stream audio wirelessly from your device to the amplifier.

### 4.3 Volume Control

1. Adjust the master volume using the Volume Knob on the amplifier unit.
2. Further volume adjustments can be made directly from your connected Bluetooth device.



Figure 5: Amplifier controls and interfaces.



Figure 6: Versatile use cases for the CAMWAY amplifier, highlighting its protective features.

## 5. MAINTENANCE

To ensure the longevity and optimal performance of your CAMWAY Bluetooth Audio Amplifier, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the amplifier and the waterproof box. Avoid using harsh chemicals or abrasive cleaners, as they may damage the surfaces.
- **Waterproof Seal:** Regularly inspect the rubber gaskets and seals of the waterproof box to ensure they are intact and free from debris. A compromised seal can lead to water ingress and damage to the amplifier.
- **Cable Connections:** Periodically check all cable connections (speaker wires, power cord) to ensure they are secure and free from corrosion. Loose connections can affect audio quality and safety.
- **Storage:** If storing the amplifier for an extended period, especially in harsh conditions, ensure it is powered off, disconnected from power, and the waterproof box is securely closed.

## 6. TROUBLESHOOTING

If you encounter issues with your CAMWAY Bluetooth Audio Amplifier, refer to the following troubleshooting tips:

Problem	Possible Cause	Solution
No power/No indicator light	Power cord not connected; Power outlet not working; Amplifier power switch is off.	Ensure power cord is securely plugged in; Test power outlet with another device; Flip power switch to 'ON'.
No sound from speakers	Speaker wires incorrectly connected; Speakers are not passive or incompatible impedance; Volume too low; Bluetooth not connected.	Check speaker wire polarity and connection; Verify speaker type and impedance (4-8 Ohms); Increase volume on amplifier and source device; Re-pair Bluetooth device.
Bluetooth connection issues	Device too far; Interference; Amplifier not in pairing mode; Previously paired device connected.	Move device closer to amplifier (within 15m/50ft); Reduce interference from other wireless devices; Power cycle amplifier to enter pairing mode; Disconnect from other Bluetooth devices.
Distorted audio	Volume too high; Poor quality audio source; Speaker impedance mismatch.	Reduce volume; Use a higher quality audio source; Ensure speakers are 4-8 Ohms and within recommended power limits.

## 7. SPECIFICATIONS

Detailed technical specifications for the CAMWAY Bluetooth 5.0 Audio Amplifier.

Feature	Specification
Model Number	b489e6df-a021-4e09-9cab-71980a4ab31a
Bluetooth Version	V5.0
Bluetooth Distance	Up to 15m (50ft)
Peak Power Output	200W + 200W
Rated Output Power (30V 5A)	4Ω: 100W, 6Ω: 75W, 8Ω: 56W
Compatible Speaker Impedance	4-8 Ohms (Passive Speakers Only)
Working Voltage	100V-240V AC 50/60Hz
Frequency Response	20Hz-20KHz (±2dB)
Signal-to-Noise Ratio (SNR)	90dB (1KHz@ -10DBFS)
Chip	Pro TPA3221 Digital Amplifier Chip
Material	Aluminum Alloy + ABS
Special Feature	2 IN 1 Power Amplifier with Waterproof Mounting Box
Parcel Dimensions	28.83 x 22.43 x 11 cm
Item Weight	1.59 kg

Feature	Specification
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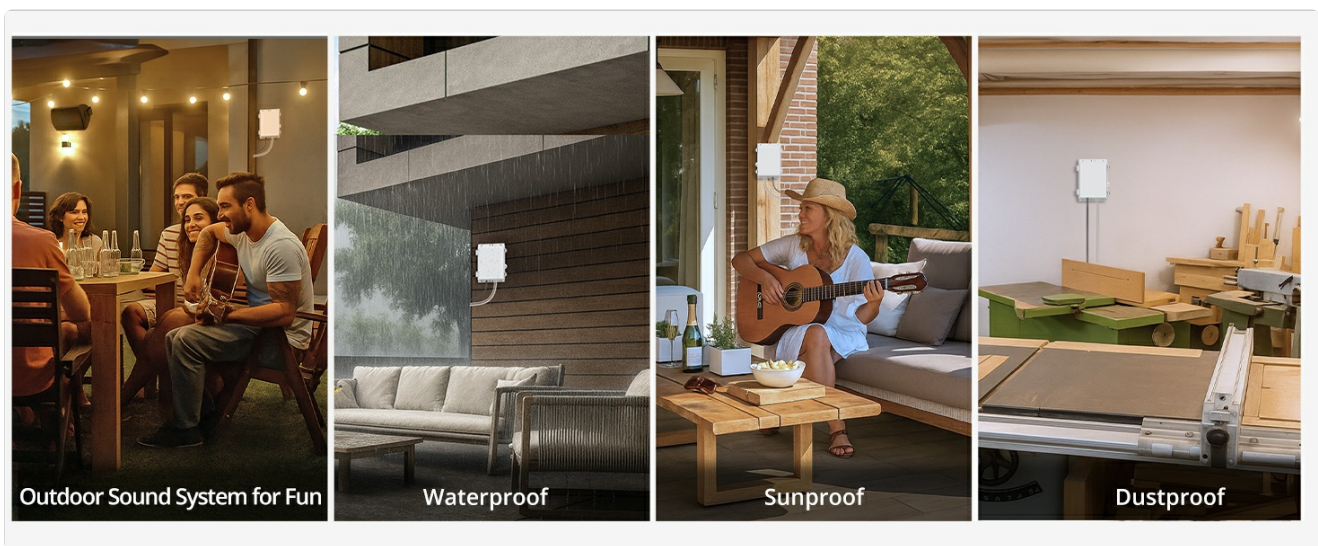


Figure 7: Detailed technical specifications of the amplifier.

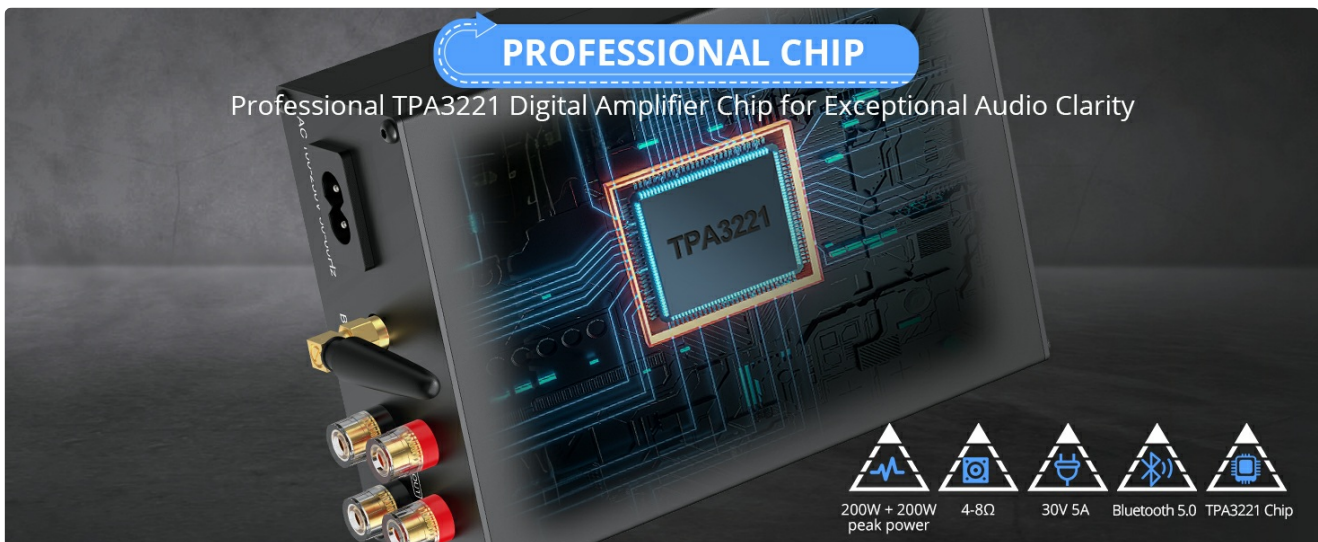


Figure 8: Power output and speaker impedance matching guide.

## 8. WARRANTY AND SUPPORT

The CAMWAY Bluetooth 5.0 Audio Amplifier comes with an 18-month warranty from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use.

For technical support, warranty claims, or any questions regarding the product, please contact CAMWAY customer service through the retailer where the product was purchased or refer to the contact information provided in the included User's Manual.