ROYAL AUDIO RAS02

ROYAL AUDIO RAS02 Wireless Portable Bluetooth Speaker User Manual

Model: RAS02

1. Introduction

Thank you for choosing the ROYAL AUDIO RAS02 Wireless Portable Bluetooth Speaker. This speaker is designed to deliver powerful stereo sound with enhanced bass, featuring IPX5 water resistance, TWS pairing capability, RGB lighting, and an integrated FM radio. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device.

2. Package Contents

Please verify that all items are present in your package:

- RAS02 Wireless Portable Bluetooth Speaker
- Carry Strap
- USB Charging Cable (Type-C)
- User Manual

3. Product Overview

Familiarize yourself with the components and features of your RAS02 speaker.



Figure 3.1: Front view of the RAS02 speaker with the attached carry strap.



Figure 3.2: Top view of the RAS02 speaker, highlighting the control panel and ports.

Key Features:

- **Loud and Clear Stereo Sound with Deep Bass:** Enjoy powerful audio with Bassboom technology.
- **True Wireless Stereo (TWS) Pairing:** Connect two RAS02 speakers for an immersive stereo experience.
- **Long Lasting 7-Hour Battery Life:** Extended playback on a single charge.
- **Splash-Proof (IPX5):** Designed to withstand splashes and light rain.
- **RGB Lights:** Dynamic lighting effects to enhance your music.
- **Built-in FM Radio:** Listen to your favorite radio stations.
- **Multiple Connectivity Options:** Bluetooth, USB, Line-in (AUX).

4. Setup

4.1 Charging the Speaker

Before first use, fully charge the speaker. Connect the provided USB Type-C charging cable to the speaker's charging port and the other end to a USB power adapter (not included) or a computer's USB port. The LED indicator will show charging status and turn off when fully charged.

4.2 Powering On/Off

- **To Power On:** Press and hold the Power button ( ) for approximately 3 seconds until you hear an audible prompt and the indicator lights illuminate.
- **To Power Off:** Press and hold the Power button ( ) for approximately 3 seconds until you hear an audible prompt and the indicator lights turn off.

4.3 Bluetooth Pairing

1. Ensure the speaker is powered on and in Bluetooth pairing mode. The Bluetooth indicator light will flash rapidly.
2. On your device (smartphone, tablet, computer), enable Bluetooth and search for available devices.
3. Select "RAS02" from the list of found devices.
4. Once connected, you will hear a confirmation sound, and the Bluetooth indicator light will remain solid.

4.4 True Wireless Stereo (TWS) Pairing

To pair two RAS02 speakers for a stereo experience:

1. Ensure both RAS02 speakers are powered on and not connected to any Bluetooth device.
2. On one of the speakers (this will be the primary speaker), press and hold the TWS button (often indicated by two interlocking circles or a similar icon) for 2-3 seconds.
3. The primary speaker will begin searching for the secondary speaker.
4. Once connected, you will hear a confirmation sound from both speakers. The primary speaker's Bluetooth indicator will flash slowly, and the secondary speaker's indicator will remain solid.
5. Now, connect your device to the primary speaker via Bluetooth as described in Section 4.3. Audio will play in stereo through both speakers.

5. Operating Instructions

5.1 Button Functions

Refer to Figure 3.2 for button locations.

- **Power Button ( ):** Press and hold to power on/off.
- **Mode Button (M):** Press to switch between Bluetooth, FM Radio, USB, and AUX modes.
- **Play/Pause Button (▶‖):** Press to play or pause audio. In FM mode, press and hold to auto-scan and save stations.

- **Volume Down / Previous Track Button (-):** Press to decrease volume. Press and hold to go to the previous track.
- **Volume Up / Next Track Button (+):** Press to increase volume. Press and hold to go to the next track.
- **RGB Light Button:** Press to cycle through different RGB lighting modes or turn lights off.

5.2 Playing Audio

- **Bluetooth Mode:** After successful pairing (Section 4.3), play audio from your connected device.
- **USB Mode:** Insert a USB flash drive containing MP3 audio files into the USB port. The speaker will automatically switch to USB mode and begin playback.
- **AUX (Line-in) Mode:** Connect an audio device using a 3.5mm AUX cable (not included) to the speaker's AUX port. The speaker will automatically switch to AUX mode.
- **FM Radio Mode:** Press the Mode button to switch to FM Radio. Press and hold the Play/Pause button to auto-scan and save available stations. Use the Volume Up/Down buttons to navigate between saved stations.

5.3 Handling Calls (Bluetooth Mode)

When connected via Bluetooth:

- **Answer Call:** Press the Play/Pause button once.
- **End Call:** Press the Play/Pause button once during a call.
- **Reject Call:** Press and hold the Play/Pause button for 2 seconds.

6. Maintenance

6.1 Cleaning

Wipe the speaker with a soft, damp cloth. Do not use abrasive cleaners, alcohol, or chemical solvents, as these may damage the surface or internal components. Ensure the charging port cover is securely closed before cleaning.

6.2 Storage

Store the speaker in a cool, dry place away from direct sunlight and extreme temperatures. If storing for an extended period, charge the battery to approximately 50% every few months to preserve battery life.

6.3 Battery Care

To maximize battery lifespan:

- Avoid fully discharging the battery frequently.
- Do not expose the speaker to temperatures above 45°C (113°F) or below -10°C (14°F).
- Use only the provided charging cable or a certified equivalent.

6.4 Water Resistance (IPX5)

The RAS02 speaker is IPX5 splash-proof, meaning it can resist a sustained, low-pressure water jet spray. It is not designed to be submerged in water. Ensure all port covers are securely sealed before exposure to water. Do not charge the speaker if it is wet.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Speaker does not power on.	Low battery; Power button not held long enough.	Charge the speaker fully; Press and hold the Power button for 3 seconds.

Problem	Possible Cause	Solution
No sound.	Volume too low; Incorrect mode; Device not connected.	Increase speaker and device volume; Press Mode button to select correct input; Re-pair Bluetooth device.
Bluetooth pairing fails.	Speaker not in pairing mode; Device Bluetooth off; Too far from speaker.	Ensure speaker is flashing Bluetooth indicator; Turn device Bluetooth on/off; Move device closer (within 10m).
Poor FM radio reception.	Weak signal; Interference.	Relocate the speaker; Extend the antenna (if applicable, or use charging cable as antenna).
TWS pairing fails.	Speakers already connected to other devices; Too far apart.	Disconnect both speakers from any Bluetooth devices; Ensure speakers are within 5 meters of each other.

8. Specifications

Detailed technical specifications for the RAS02 speaker:

Feature	Specification
Model Name	RAS02
Brand	ROYAL AUDIO
Speaker Type	Portable Speaker
Connectivity Technology	Bluetooth
Bluetooth Version	5.3 (as per image)
Audio Output Mode	Stereo
Speaker Maximum Output Power	13 Watts (RMS)
Battery Life	Up to 7 Hours Playtime
Water Resistance Rating	IPX5
Product Dimensions (L x W x H)	8"D x 3"W x 3"H (approx. 12" x 5.75" as per image)
Item Weight	3.32 pounds
Included Components	Carry Strap
Special Features	Bassboom Technology, Bass Boost, FM Radio, Portable, USB Port, RGB Lights, TWS Pairing

9. Warranty and Support

9.1 Warranty Information

Specific warranty details for the ROYAL AUDIO RAS02 speaker are typically provided at the point of purchase or within separate warranty documentation. Please refer to your purchase receipt or contact the retailer for information regarding warranty coverage and terms.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or inquiries regarding your product, please contact the seller or ROYAL AUDIO customer support through the platform where the product was purchased. Please have your model number (RAS02) and purchase details ready when contacting support.

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