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JOYROOM JR-CCB02

JOYROOM Bluetooth 5.4 FM Transmitter User Manual

Model: JR-CCB02 | Brand: JOYROOM

Introduction

Thank you for choosing the JOYROOM Bluetooth 5.4 FM Transmitter. This device allows you to stream music, make hands-free calls, and charge your devices in your car. Equipped with advanced Bluetooth 5.4 technology and 60W PD 3.0 fast charging, it ensures a stable connection and efficient power delivery. Please read this manual carefully before use to ensure proper operation and safety.

What's in the Box

- 1 x JOYROOM Bluetooth 5.4 FM Transmitter with 60W Fast Charging

Key Features

- **60W PD 3.0 Fast Charging:** Features a 30W PD 3.0 fast-charge port and a built-in 5ft coiled USB-C cable with 30W Power Delivery, delivering up to 60 watts combined.
- **Advanced Bluetooth 5.4:** Provides faster pairing, more stable audio, and minimal sound quality loss for uninterrupted music streaming and crystal-clear hands-free calls.
- **Hi-Fi Deep Bass & LED Backlit:** Experience immersive stereo sound with clear navigation prompts. The anti-glare LED display ensures visibility, and the light can be turned off by long-pressing.
- **CVC 8.0 Noise Reduction:** Dual mics and advanced CVC 8.0 technology ensure crystal-clear hands-free calls by reducing ambient noise.
- **Multiple Security Protections:** Built-in safeguards against over-current, over-voltage, over-heating, and short-circuit, with UL, CE, FCC, and RoHS certifications.
- **Wider Range Compatibility:** Compatible with most smartphones (iPhone, Samsung Galaxy, Google Pixel) and various vehicle types (12-24V).



Figure 1: 60W PD 3.0 Fast Charging capability.



Figure 2: Advanced Bluetooth 5.4 for stable and clear audio.



Figure 3: CVC 8.0 Noise Canceling for clear calls.

Safety Information

WARNING:

Electrical appliances or loads that exceed the output current of this product are prohibited (automatic protection will be activated and no output will be given). Do not use it in a wet environment or thunderstorm weather.

The product shell is made of PC+ABS, protecting your device and ensuring safe charging.



Figure 4: Emphasizing 100% safe operation while driving.

Setup Guide

Product Overview



Figure 5: Components of the FM Transmitter.

Initial Setup and Pairing

Follow these steps to set up your JOYROOM FM Transmitter and pair it with your device:

1. **Insert the Transmitter:** Plug the FM transmitter into your car's 12V-24V cigarette lighter socket. The LED display will light up.
2. **Find a Non-Used FM Channel:** Tune your car radio to a blank FM channel. This should be a frequency with no strong radio station signals, typically indicated by static. The FM channel range for the transmitter is between 88.1MHz-107.9MHz.
3. **Adjust Transmitter FM Channel:** Long press the "CH" button on the transmitter to enter FM channel adjustment mode.
4. **Match Frequencies:** Rotate the knob on the transmitter to adjust its FM frequency to match the blank FM channel you found on your car radio. Ensure both frequencies are identical for optimal sound quality.

5. **Bluetooth Connection:** On your smartphone or Bluetooth-enabled device, search for Bluetooth devices and select "JR-CCB02" to connect. Once connected, the transmitter will automatically reconnect to your device upon startup.

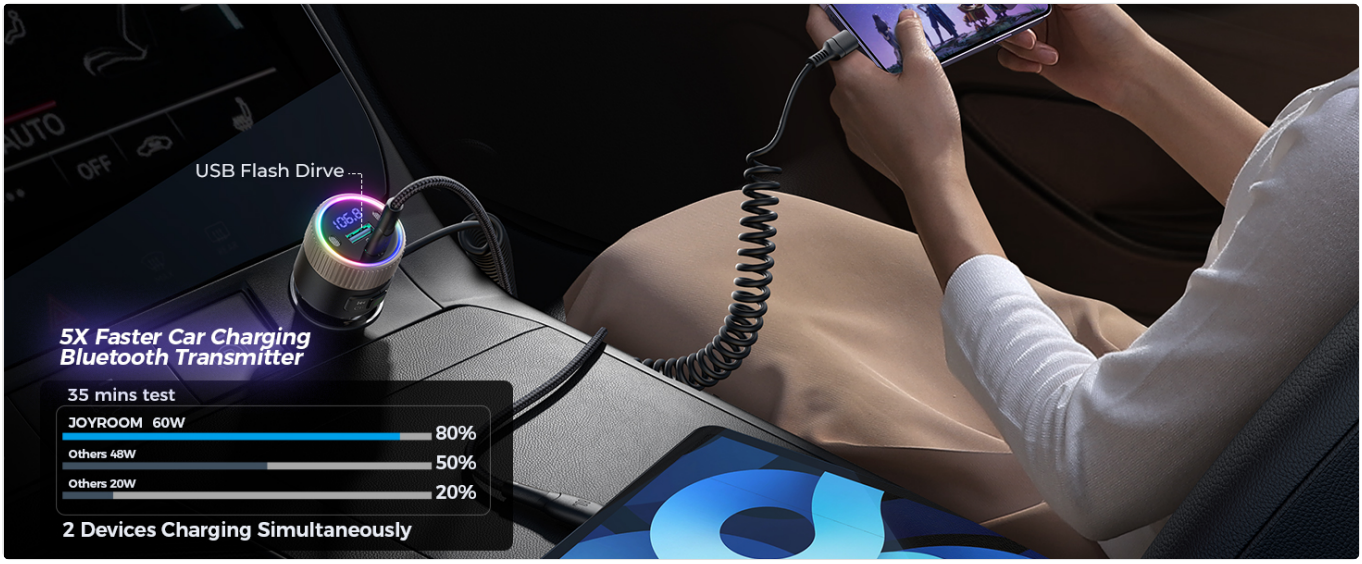

Figure 6: Step-by-step guide for pairing the FM channel.

Operating Instructions

Music Playback

- **Bluetooth Streaming:** Once paired, music from your connected device will stream through your car's speakers via the selected FM frequency.
- **USB Drive Playback:** Insert a USB flash drive (up to 64GB) into the USB port. The transmitter will automatically detect and play audio files from the drive.
- **Volume Adjustment:** Rotate the knob on the transmitter to adjust the volume.
- **Track Control:** Use the 'Next track' and 'Prev. track' buttons to skip songs.

Hands-Free Calling

- **Answer/End Call:** Press the Call button (green phone icon) once to answer an incoming call or end an ongoing call.
- **Reject Call:** Long press the Call button to reject an incoming call.
- **Redial:** Double-press the Call button to redial the last number.
- **Switch Call Source:** During a call, long press the Call button to switch the call between the transmitter and your phone.

Charging Devices

- **PD 3.0 Port:** Use the dedicated PD 3.0 port for fast charging compatible devices.
- **Built-in USB-C Cable:** Utilize the integrated 5ft coiled USB-C cable for convenient 30W Power Delivery charging.
- **Simultaneous Charging:** You can charge up to 3 devices simultaneously using the PD port, the USB-C cable, and the USB flash drive port (if not used for music).



Figure 7: FM Channel and Volume Adjustment.



Figure 8: Fast charging capabilities.

Maintenance

To ensure the longevity and optimal performance of your JOYROOM FM Transmitter, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to wipe the device. Do not use liquid cleaners or aerosols, as they may damage the device.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Avoid Impact:** Do not drop or subject the device to strong impacts, as this may damage internal components.
- **Keep Dry:** Avoid exposing the device to water or excessive moisture.

Troubleshooting

If you encounter any issues with your FM Transmitter, please refer to the following table for common problems and solutions:

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
No power/display off	Not properly inserted; car socket issue; fuse blown.	Ensure the transmitter is fully inserted. Check car's cigarette lighter socket for power. Consult car manual for fuse replacement if necessary.
Static or poor audio quality	FM frequency interference; volume too low; unmatched frequencies.	Find a new, clear FM frequency on your car radio and match it on the transmitter. Increase volume on both the transmitter and your car radio.
Bluetooth not connecting	Transmitter not in pairing mode; device Bluetooth off; incorrect device selected.	Ensure the transmitter is powered on. Turn off and on your device's Bluetooth. Search for "JR-CCB02" and try pairing again.
Charging is slow or not working	Cable issue; device not compatible with fast charging; over-current protection.	Try a different charging cable. Ensure your device supports PD 3.0. Unplug and replug the device to reset protection.
Hands-free call quality is poor	Microphone obstruction; high ambient noise.	Ensure the microphone area is clear. Reduce car noise (e.g., close windows).

Specifications

Feature	Detail
Product Dimensions	1.45 x 1.45 x 2.97 inches
Item Weight	3.2 ounces
Model Number	JR-CCB02
Brand	JOYROOM
Connectivity Technology	Bluetooth 5.4
Power Source	DC 12-24V (Car Cigarette Lighter)
Charging Output	60W (30W PD 3.0 port + 30W built-in USB-C cable)
Material	ABS+PC
USB Flash Drive Support	Up to 64GB
FM Frequency Range	88.1MHz - 107.9MHz

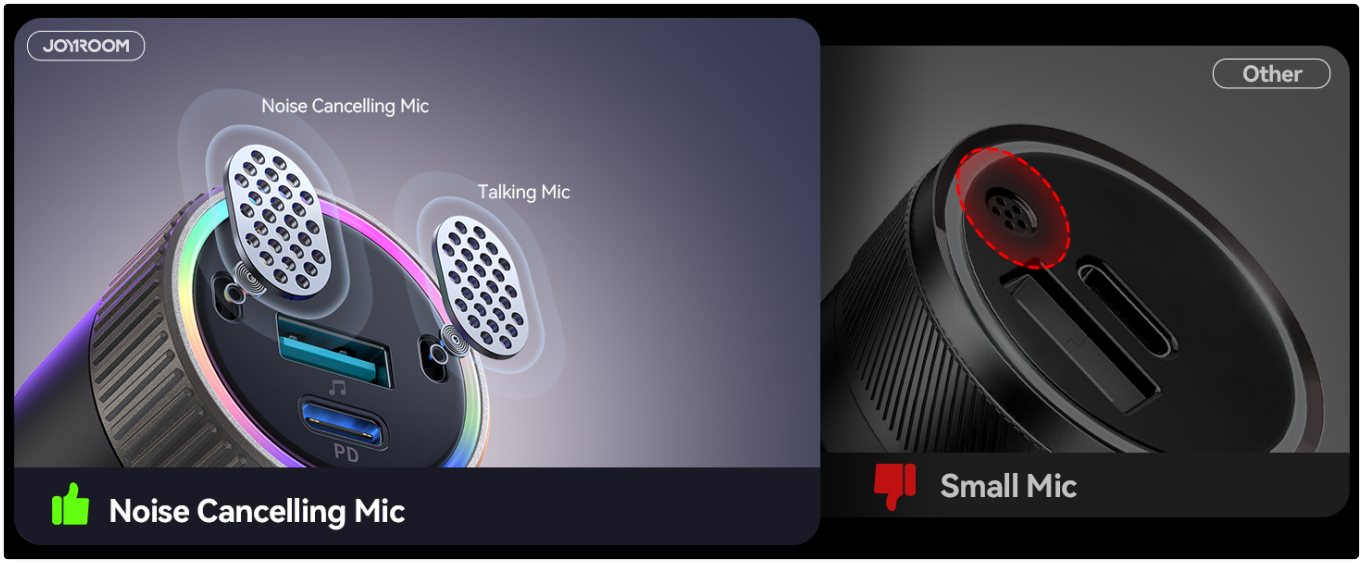

Figure 9: Physical attributes of the transmitter.

Warranty and Support

JOYROOM products come with a standard manufacturer's warranty. For detailed warranty information, product support, or technical assistance, please refer to the warranty card included with your purchase or visit the official JOYROOM website. You may also contact the seller directly for assistance.
Please retain your proof of purchase for warranty claims.

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