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> MakerHawk Bluetooth 5.3 Transmitter Receiver (Model OMS-M13) Instruction Manual

MakerHawk OMS-M13

MakerHawk Bluetooth 5.3 Transmitter Receiver

Model: OMS-M13

Brand: MakerHawk

1. INTRODUCTION

The MakerHawk Bluetooth 5.3 Transmitter Receiver (Model OMS-M13) is a versatile 2-in-1 audio adapter designed to enhance your audio experience. It functions as both a Bluetooth transmitter and receiver, allowing you to wirelessly stream audio to and from various devices. Featuring Bluetooth 5.3 technology, an LED display, NFC pairing, and multiple audio interfaces, this device offers stable and high-fidelity audio transmission.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Bluetooth 5.3 Receiver and Transmitter (OMS-M13)
- Type-C Charging Cable
- 3.5mm Audio Cable
- Red and White RCA Lotus Line
- User Manual

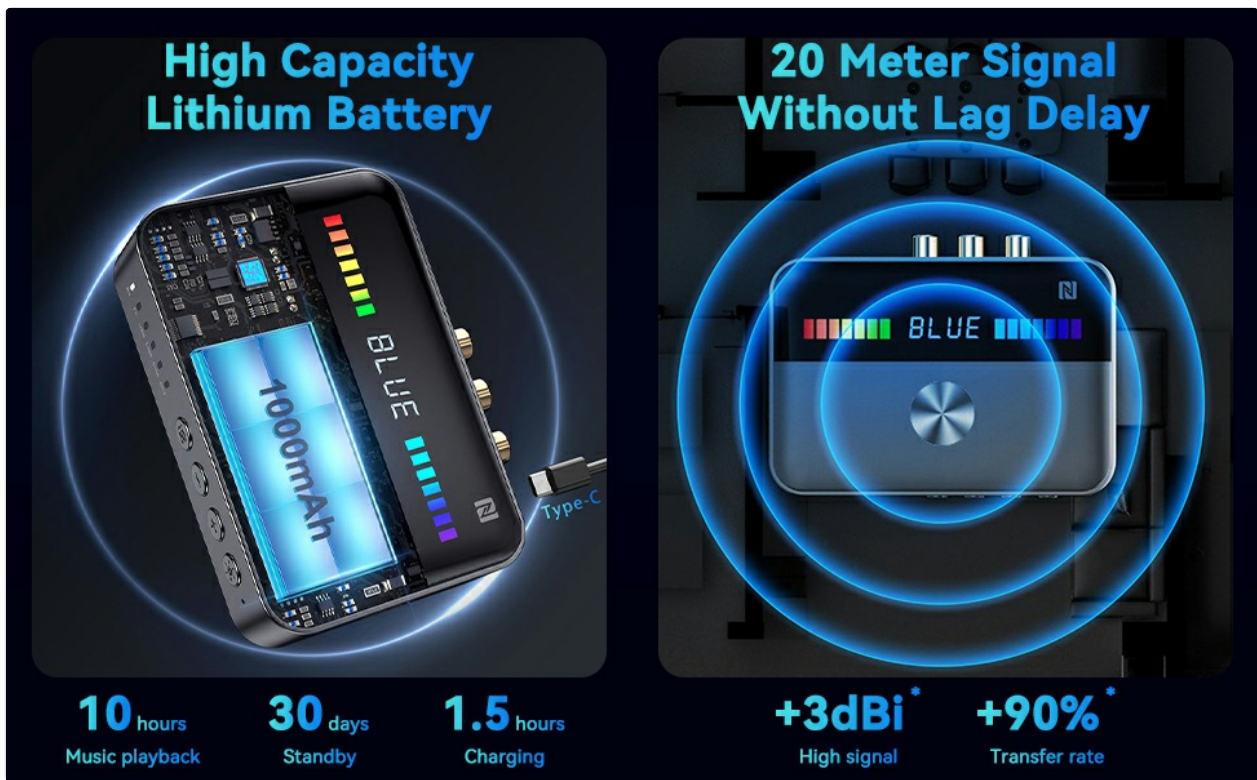


Image: Contents of the product package, showing the Bluetooth adapter, Type-C charging cable, 3.5mm audio cable, RCA cable, and user manual.

3. PRODUCT FEATURES

- **Bluetooth 5.3 Connectivity:** Offers double the transmission speed, enhanced compatibility, and stability with a built-in Bluetooth antenna for a long-distance transmission of up to 20 meters.
- **Dual Functionality (2-in-1):** Operates as both a Bluetooth transmitter (TX) and receiver (RX).
- **Multi-Device Connection:** Supports connecting to two smartphones simultaneously in receiving mode.
- **USB Disk Playback:** Supports USB disk playback and transmission for audio files up to 64GB, including multiple lossless formats.
- **High-Definition LED Display:** Provides clear visibility of working status and Bluetooth modes.
- **Multi-Interface Support:** Integrated digital-to-analog chip supports digital optical, coaxial, 3.5mm AUX, and RCA interfaces.
- **High-Definition Microphone:** Enables hands-free calls and navigation.
- **Long-Lasting Battery:** Built-in 1000mAh rechargeable lithium battery provides up to 12 hours of continuous music play with a 1.5-hour charge.
- **NFC Touch Pairing:** Facilitates effortless connectivity with NFC-enabled devices.
- **Adjustable RGB Lighting:** Features cool RGB lighting for ambiance, with multiple modes and adjustable color tones.

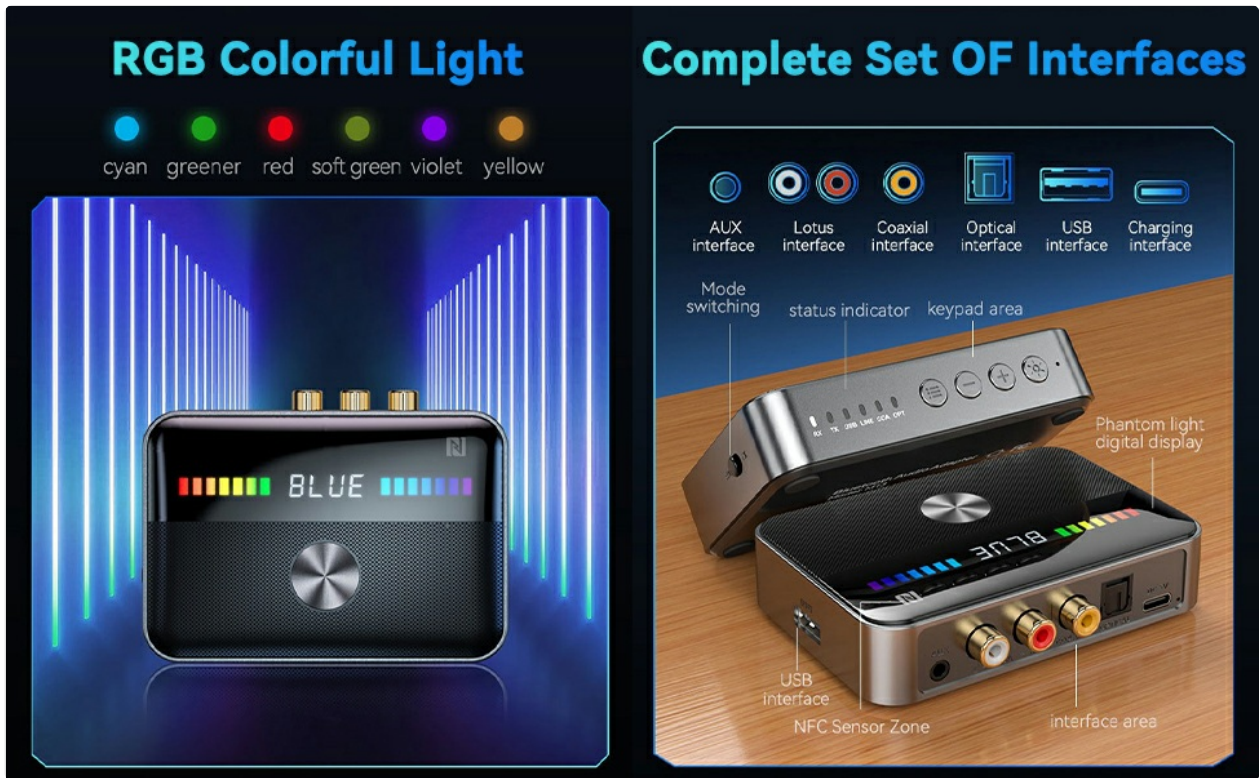


Image: Visual representation of key features such as RGB lighting, RX/TX modes, Bluetooth 5.3 chip, dual phone connection, and 1000mAh battery.

4. PRODUCT OVERVIEW

The OMS-M13 features a compact design with an LED display on the top surface. Control buttons are located on the front panel, and various audio input/output ports are on the rear and side.

RGB Streaming Color

Multiple modes
adjustable color tones



Reception Mode

Cell Phone Connection Active Speaker



Transmit Mode

PC Connection Bluetooth Headset



Bluetooth 5.3 Chip

Stable without delay



Intelligent One-Two

Connecting two cell phones



Internal Battery

1000mAh
10 hours of listening



Image: Top view of the device, highlighting the LED display and main control knob.

Desktop Computer Upgrade Bluetooth



Experience More Features



Image: Rear view illustrating the available audio input/output ports: AUX, RCA, Coaxial, Optical, and USB.

Your browser does not support the video tag.

Video: An overview of the MakerHawk Bluetooth 5.3 Transmitter Receiver, demonstrating its design, features, and various connectivity options.

5. SETUP INSTRUCTIONS

5.1. Charging the Device

Before first use, fully charge the device using the provided Type-C charging cable. Connect the cable to the Type-C port on the device and a standard USB power adapter (not included). The LED display will indicate charging status. A full charge takes approximately 1.5 hours and provides 10-12 hours of continuous music playback.



Image: Illustration of the device's 1000mAh battery, indicating 10-12 hours of music playback and 1.5 hours charging time.

5.2. Power On/Off

To power on the device, press and hold the power button (usually the central button or a dedicated power button) until the LED display illuminates. To power off, press and hold the same button until the display turns off.

5.3. Mode Switching (RX/TX)

The device features a physical switch to toggle between Receiver (RX) and Transmitter (TX) modes. Ensure the switch is set to the desired mode before connecting your audio devices.

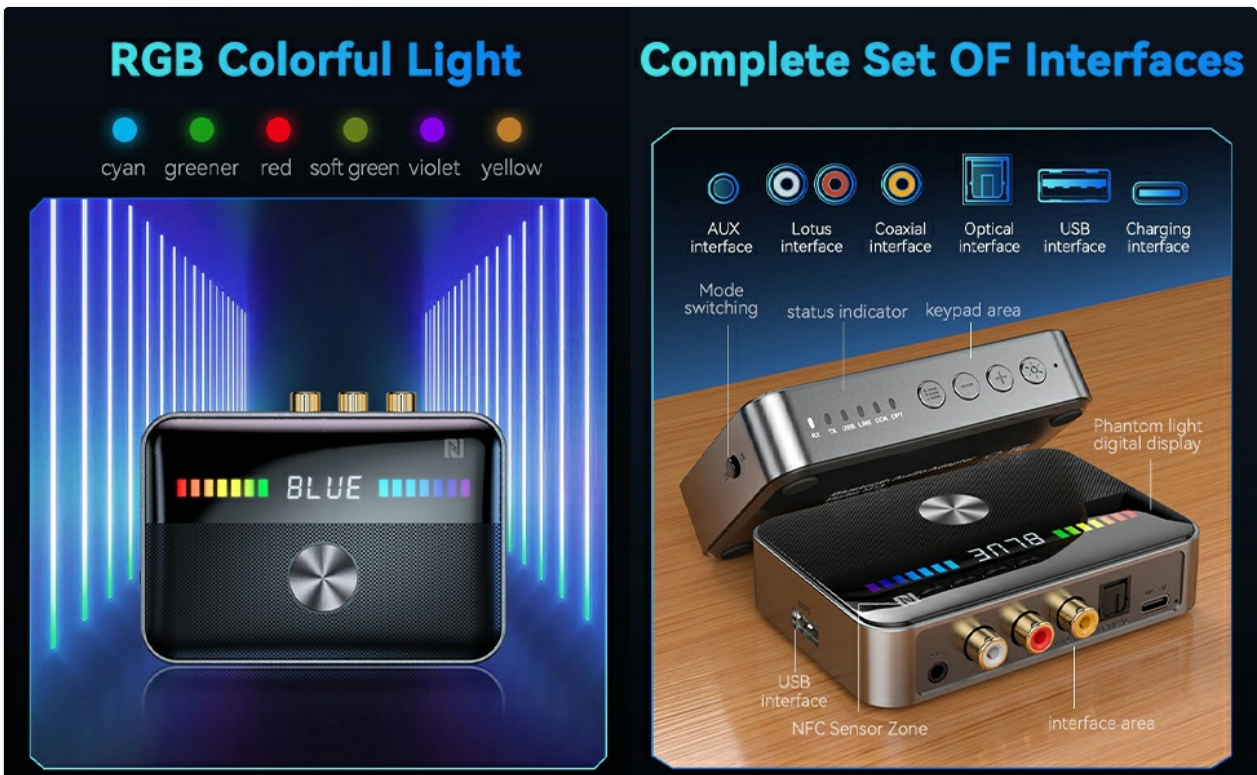


Image: The device displaying its Reception (RX) and Transmit (TX) modes, indicating its dual functionality.

5.4. Connecting Audio Sources/Devices

Use the appropriate audio cable (3.5mm AUX, RCA, Optical, Coaxial) to connect the OMS-M13 to your audio source (in TX mode) or audio receiving device (in RX mode). The device automatically detects the input type.

5.5. NFC Pairing

For quick pairing with NFC-enabled smartphones, simply tap your phone near the NFC sensor zone on the device. Your phone will automatically prompt you to connect via Bluetooth.

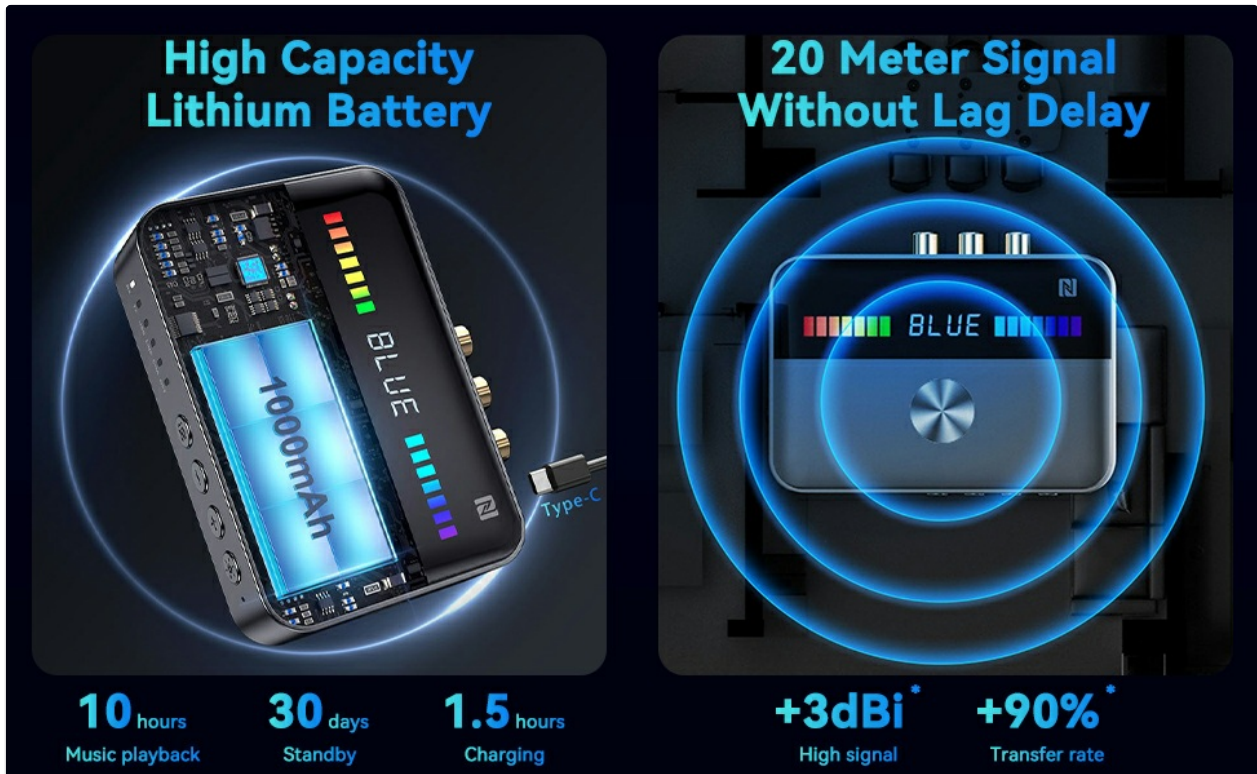


Image: Demonstrates NFC pairing by tapping a smartphone on the device's NFC area.

6. OPERATING INSTRUCTIONS

6.1. Receiver Mode (RX)

In RX mode, the OMS-M13 receives Bluetooth audio from your smartphone or other Bluetooth-enabled devices and outputs it to non-Bluetooth speakers, amplifiers, or car audio systems. Connect the OMS-M13 to your audio system using the 3.5mm AUX or RCA cables. Pair your phone with the OMS-M13 via Bluetooth. The device can connect to two smartphones simultaneously.

Optical Fiber Coaxial Digital To Analog



Old TV Upgrade Connect Bluetooth Headset



Image: The device in RX mode, connected to a traditional speaker, streaming music from a smartphone.

6.2. Transmitter Mode (TX)

In TX mode, the OMS-M13 transmits audio from non-Bluetooth devices (like TVs, PCs, or CD players) to Bluetooth headphones or speakers. Connect your audio source to the OMS-M13 using the optical, coaxial, 3.5mm AUX, or RCA cables. The OMS-M13 will then broadcast the audio via Bluetooth to your paired Bluetooth headphones or speakers.

Bluetooth 5.3 Faster Transmission

Bluetooth 5.3 chip	Bluetooth 5.0
Fast transmission speed	slow transmission speed
Low power consumption	loud power consumption
stability	stability
Distance (20M)	Distance (8M)

Upgrade NFC Pairing

The image shows a hand holding a smartphone over a black rectangular device. The device has a 'BLUE' logo and a colorful NFC pairing indicator. The device has several ports and buttons on the bottom edge.

Image: The device in TX mode, connected to an amplifier, enabling wireless audio transmission.

6.3. USB Disk Playback

Insert a USB flash drive (up to 64GB) containing audio files into the USB port. The device will automatically

detect and play compatible audio formats. Use the control buttons to navigate tracks and adjust volume.



Image: The device connected to a desktop computer, demonstrating its use as a Bluetooth transmitter and its USB playback capability.

6.4. Hands-free Calling

When connected to a smartphone in RX mode, the built-in high-definition microphone allows for hands-free calls. Answer or end calls using the device's control buttons.

6.5. RGB Lighting Control

The device features adjustable RGB lighting. Use the dedicated light control button to cycle through different lighting modes and color tones to suit your preference.

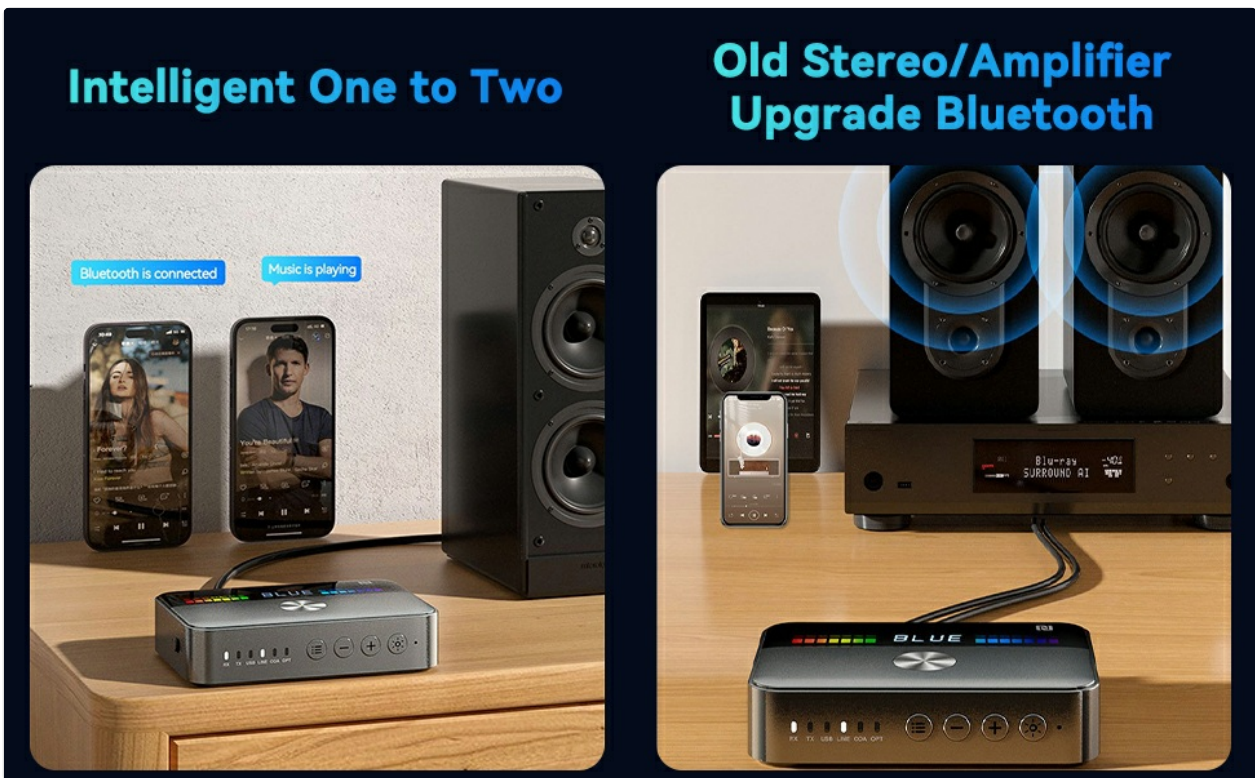


Image: The device showcasing its RGB spectral lamp with different lighting modes and colors.

7. TROUBLESHOOTING

- **No Power:** Ensure the device is charged. Connect the Type-C charging cable and allow it to charge for at least 15 minutes before attempting to power on again.
- **No Audio:** Check all cable connections. Ensure the device is in the correct RX/TX mode. Verify that the volume on both the device and connected audio equipment is turned up.
- **Cannot Pair Bluetooth:** Ensure the device is in pairing mode (usually indicated by a flashing Bluetooth icon on the LED display). Turn off and on Bluetooth on your source device. Move closer to the OMS-M13 to ensure it is within range (up to 20 meters).
- **Audio Lag in TX Mode:** While Bluetooth 5.3 reduces latency, some audio lag may still occur depending on the connected Bluetooth headphones/speakers and the audio source. Try using different Bluetooth devices if possible.
- **USB Disk Not Recognized:** Ensure the USB disk is formatted to a compatible file system (e.g., FAT32) and contains supported audio file formats. The maximum supported capacity is 64GB.

8. SPECIFICATIONS

Product Dimensions	2.9 x 3.9 x 0.9 inches
Item Weight	3.72 ounces (105.5 Grams)
Item Model Number	OMS-M13
Batteries	1 Lithium Ion battery required (included)
Special Features	Battery powered, Bluetooth 5.3, LED display, NFC, Wireless
Connectivity Technology	Bluetooth

Power Source	Battery Powered
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9. SAFETY INFORMATION

To ensure safe operation and prolong the life of your device, please observe the following:

- Handle batteries with care; avoid exposure to water or extreme temperatures.
- Ensure proper disposal of the device and its battery according to local regulations.
- Be aware of potential interference with other wireless devices.
- Follow secure NFC pairing procedures for data privacy.
- Do not attempt to disassemble or modify the device.

10. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For warranty claims, technical support, or any inquiries regarding the product, please contact MakerHawk customer service through the retailer where the product was purchased or visit the official MakerHawk website for contact information.