

ElecMoga LE512

ElecMoga LE512 Bluetooth 5.4 2-in-1 Transmitter and Receiver User Manual

INTRODUCTION

The ElecMoga Bluetooth 5.4 2-in-1 Transmitter and Receiver is a portable audio adapter designed for versatile wireless audio connectivity. It functions as both a transmitter (TX) to send audio from non-Bluetooth devices to Bluetooth headphones or speakers, and a receiver (RX) to enable Bluetooth streaming to non-Bluetooth audio systems. Featuring Bluetooth 5.4 technology, it ensures stable connections, low latency, and supports multiple audio codecs. Its compact design and long battery life make it suitable for various applications, including travel, home entertainment, and car audio.

This device supports dual connectivity, allowing you to connect two Bluetooth devices simultaneously in TX mode (e.g., two pairs of headphones) or pair two mobile phones in RX mode. It is widely compatible with devices such as TVs, car stereos, headphones, and more.

PRODUCT OVERVIEW

Familiarize yourself with the components and controls of your ElecMoga LE512 adapter.

Product Overview



Image: Detailed view of the ElecMoga LE512 adapter, highlighting its 3.5mm stereo audio input/output, volume controls, play/pause/call button, connect status light, P/R paired buttons, RX/TX mode lights, power/mode switch, microphone (RX mode), and USB charging port.

- **3.5mm Stereo Audio Input/Output:** For connecting to audio sources or output devices.
- **Volume +/- / Previous/Next Track:** Controls for audio playback.
- **Play/Pause/Call:** Multi-function button for media control and call management.
- **Connect Status Light:** Indicates connection status.
- **P/R Paired Buttons:** For pairing and managing connections.
- **RX Mode Light:** Illuminates when in Receiver mode.
- **TX Mode Light:** Illuminates when in Transmitter mode.
- **Power/Mode Switch:** To turn the device on/off and switch between TX and RX modes.
- **MIC (RX mode):** Built-in microphone for hands-free calls in Receiver mode.
- **USB Port:** Type-C port for charging.

SPECIFICATIONS

Model Number	LE512
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Bluetooth Version	V5.4
Bluetooth Protocols (RX)	A2DP, AVRCP, HSP, HFP
Bluetooth Protocols (TX)	A2DP
Transmission Distance	Up to 12 meters (unobstructed)
Battery Capacity	300 mAh Li-ion
Operating Time (RX Mode)	Up to 16 hours
Operating Time (TX Mode)	Up to 12 hours (with dual connection)
Charging Time	Approximately 2 hours
Charging Voltage	DC 5V
Audio Interface	3.5mm Audio Jack
Audio Codecs (TX)	aptX Adaptive/aptX HD/aptX LL/aptX/SBC
Audio Codecs (RX)	aptX Adaptive/aptX HD/aptX/AAC/SBC
Color	White
Hardware Interface	Bluetooth



Image: Visual representation of the upgraded Bluetooth 5.4 chip, emphasizing low latency, stable, and faster connection speeds.



Image: The compact and portable design of the ElecMoga LE512 Bluetooth adapter shown next to a smartphone for size comparison, with dimensions indicated.

SETUP

Initial Charging

Before first use, fully charge the device using the provided Type-C charging cable and a DC 5V power source. The charging time is approximately 2 hours.

Power On/Off

- **To Power On:** Press and hold the multi-function button until the indicator light illuminates.
- **To Power Off:** Press and hold the multi-function button until the indicator light turns off.

Mode Selection

Use the dedicated TX/RX switch on the side of the device to select the desired operating mode:

- **TX (Transmitter) Mode:** For sending audio from non-Bluetooth devices (e.g., TV, PC, airplane entertainment) to Bluetooth headphones or speakers.
- **RX (Receiver) Mode:** For receiving audio from Bluetooth-enabled devices (e.g., smartphone, tablet) and playing it through non-Bluetooth audio systems (e.g., car stereo, wired speakers).

Pairing Instructions

Follow these steps to pair your device:

1. In TX Mode:

- Connect the ElecMoga LE512 to your audio source (e.g., TV, airplane jack) using the 3.5mm audio cable.
- Switch the adapter to TX mode. The TX mode light will illuminate.
- Put your Bluetooth headphones or speakers into pairing mode.
- The adapter will automatically search for and connect to your Bluetooth audio device. The connect status light will indicate a successful connection.

2. In RX Mode:

- Connect the ElecMoga LE512 to your non-Bluetooth audio system (e.g., car stereo, wired speaker) using the 3.5mm audio cable.
- Switch the adapter to RX mode. The RX mode light will illuminate.
- Enable Bluetooth on your smartphone, tablet, or other audio source device.
- Search for "ElecMoga LE512" in your device's Bluetooth settings and select it to pair. The connect status light will indicate a successful connection.

OPERATING MODES

Transmitter (TX) Mode

In TX mode, the adapter transmits audio wirelessly from non-Bluetooth devices to your Bluetooth headphones or speakers. This is ideal for TVs, computers, gym equipment, or in-flight entertainment systems.



Image: Illustration showing the ElecMoga LE512 adapter in TX (Transmitter) mode connecting to a TV, airplane, or gym equipment to stream audio to Bluetooth earbuds, headphones, or speakers. Also shows RX (Receiver) mode connecting to a phone, tablet, or laptop to stream to car stereo, vintage stereo, or wired speakers.

TX Dual Link

Dual Earbuds



TX



Image: Two individuals using Bluetooth headphones connected via the ElecMoga LE512 adapter in TX Dual Link mode to an airplane's in-flight entertainment system.

TX | Dual Link for TV

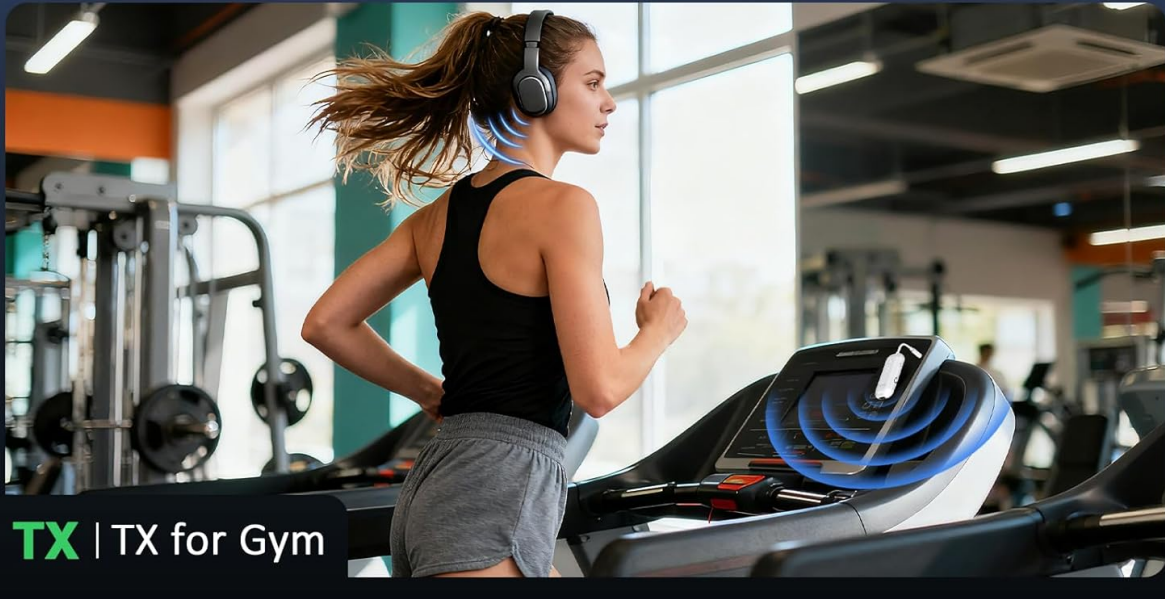


Image: Top panel shows two people watching TV with Bluetooth headphones connected via the ElecMoga LE512 in TX Dual Link mode. Bottom panel shows a person running on a treadmill with the adapter connected to gym equipment in TX mode.

TX Dual Link Function

In TX mode, you can connect two Bluetooth audio devices (e.g., two pairs of headphones) simultaneously. This allows two users to listen to the same audio source wirelessly.

Receiver (RX) Mode

In RX mode, the adapter receives audio wirelessly from your Bluetooth-enabled devices (like smartphones or tablets) and outputs it to non-Bluetooth audio systems, such as car stereos, home stereo systems, or wired headphones.



Image: The ElecMoga LE512 adapter in RX Dual Pairing mode, connected to a car's AUX input, streaming music from a smartphone.

RX Dual Pairing Function

In RX mode, you can pair two mobile phones simultaneously. This allows for easy switching between audio sources from two different phones. *Note: Simultaneous playback from two mobile phones may cause delays or sound loss. It is recommended to pause playback on one device before starting playback on the other.*

Hands-Free Function (RX Mode)

When in RX mode and connected to a smartphone, the built-in microphone allows for hands-free calling. Use the Play/Pause/Call button to answer or end calls.

CHARGING AND BATTERY LIFE

The ElecMoga LE512 features a built-in 300 mAh Li-ion battery, providing extended usage times.

- **Operating Time:** Up to 16 hours in RX mode, and up to 12 hours in TX mode (with dual connection).
- **Charging Time:** Approximately 2 hours for a full charge.
- **Charging Interface:** Type-C port with overvoltage protection for safe and convenient charging.

A low battery level can lead to sound interference. Ensure the device is adequately charged for optimal

performance.



Image: Visual representation of the ElecMoga LE512 charging process, indicating a full charge in 2 hours and battery life of 16 hours in RX mode and 12 hours in TX mode.

SAFETY GUIDELINES

To ensure safe operation and prevent damage, please adhere to the following safety instructions:

- Do not use or charge the adapter in humid, hot, or flammable environments. Such conditions can lead to short circuits, fires, and other hazards.
- Do not attempt to disassemble or modify this product. Unauthorized modifications can damage internal circuits and the battery, posing a significant safety risk.

MAINTENANCE

Proper maintenance will extend the lifespan and ensure optimal performance of your ElecMoga LE512 adapter:

- Avoid dropping the Bluetooth transmitter during use, as physical impact can affect its internal components and overall lifespan.

- Regularly clean the product's audio interface and casing. This helps maintain cleanliness and ensures proper heat dissipation, preventing potential performance issues.
- If the product will not be used for an extended period, ensure it is fully charged before storage. Recharge it periodically (e.g., every 3 months) to maintain battery health.

TROUBLESHOOTING

If you encounter issues with your ElecMoga LE512, refer to the following common problems and solutions:

- **Cannot Pair or Connect:**

- Ensure the adapter is in the correct mode (TX or RX) for your intended use.
- Verify that the adapter and the target Bluetooth device are both in pairing mode.
- Make sure both devices are within the 12-meter transmission range.
- Turn off and restart both the adapter and the target Bluetooth device.

- **No Sound or Poor Sound Quality:**

- Check all 3.5mm audio cable connections to ensure they are secure.
- Adjust the volume levels on both the adapter and the connected audio device/headphones.
- Ensure the adapter has sufficient battery charge. Low battery can cause sound interference.
- Reduce the distance between the adapter and the connected Bluetooth device, and remove any obstructions.

- **Intermittent Connection:**

- Move the adapter closer to the connected Bluetooth device.
- Avoid physical obstructions (walls, large objects) between the devices.
- Minimize interference from other wireless devices (Wi-Fi routers, microwaves).

- **Dual Connection Issues (e.g., sound delays with two phones in RX mode):**

- As noted, simultaneous playback from two mobile phones in RX mode can cause issues. Pause playback on one phone before starting on the other.

WARRANTY AND SUPPORT

ElecMoga is committed to providing quality products and customer satisfaction. If you encounter any issues or require assistance with your LE512 Bluetooth adapter, please do not hesitate to contact us. Our support team is available to resolve all issues within 24 hours.

For support, please refer to the contact information provided with your purchase or visit the official ElecMoga website.