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MOREGAX M12 Pro

MOREGAX M12 Pro Bluetooth 5.2 Transmitter Receiver User Manual

Model: M12 Pro

1. INTRODUCTION

The MOREGAX M12 Pro is a versatile Bluetooth 5.2 audio adapter designed to function as both a transmitter and a receiver. It enables wireless audio streaming to and from various devices, including TVs, home stereo systems, and Bluetooth headsets. Featuring low latency HD audio, multiple input/output options, and a digital display, the M12 Pro enhances your audio experience with convenience and high-fidelity sound.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.



Image: Package Contents

- MOREGAX M12 Pro Bluetooth Audio Adapter x 1

- Wireless Microphones x 2
- Remote Control x 1
- RCA Audio Cable x 1
- 3.5mm AUX Audio Cable x 1
- USB Type-C Charging Cable x 1
- Quick Start Guide x 1

3. PRODUCT OVERVIEW

3.1 Front Panel



Image: Front Panel Controls

- **Digital Display:** Shows current mode (RX/TX), Bluetooth status, audio codec (APTX, LL, HD, AD, SBC, AAC), and other information.
- **Bass Control Knob:** Adjusts the bass level. Also functions as 'Previous Song' in some modes.
- **Treble Control Knob:** Adjusts the treble level. Also functions as 'Next Song' in some modes.
- **OFF/VOL Knob:** Turns the device on/off and controls the master volume.

3.2 Rear Panel

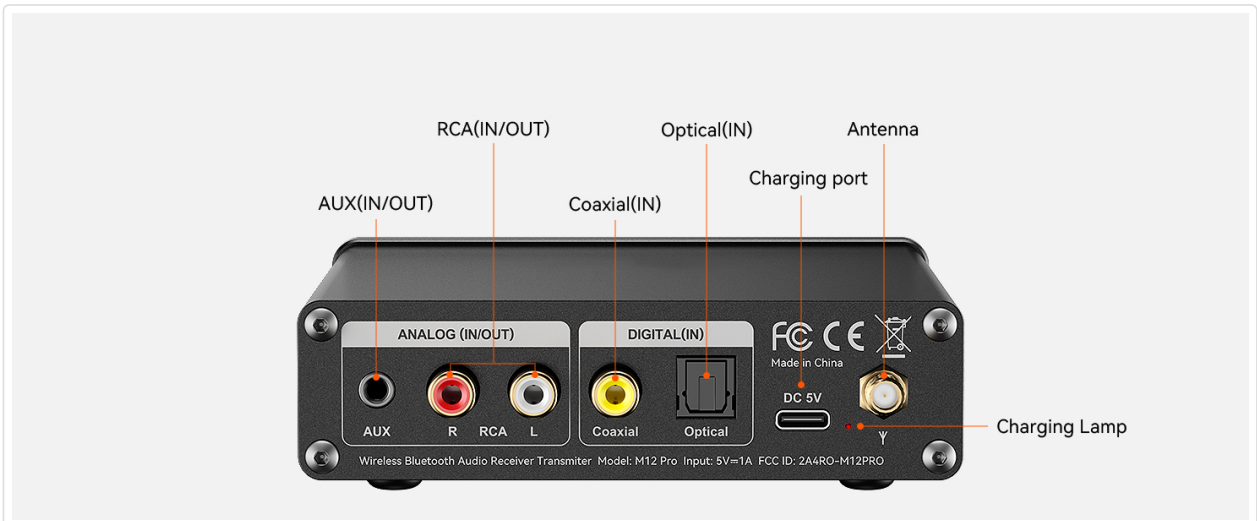


Image: Rear Panel Connections

- **AUX (IN/OUT):** 3.5mm audio jack for analog input or output.
- **RCA (IN/OUT):** Red and white RCA jacks for analog input or output.
- **Coaxial (IN):** Digital coaxial input.
- **Optical (IN):** Digital optical input.
- **Charging Port:** DC 5V input for power.
- **Antenna:** Connection point for the external Bluetooth antenna.

3.3 Remote Control

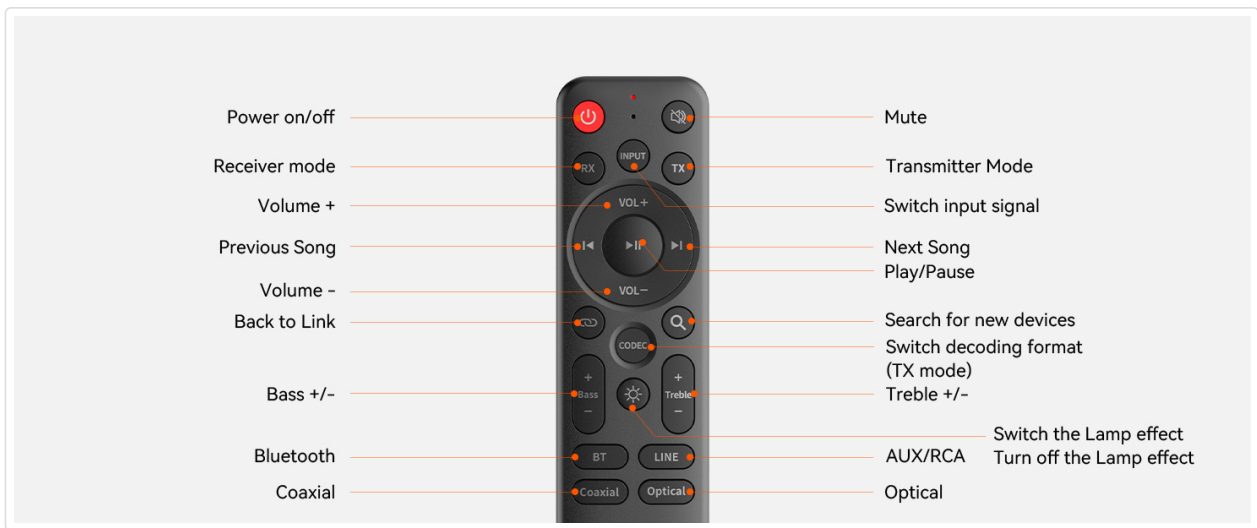


Image: Remote Control Functions

The remote control provides convenient access to various functions. Refer to section 6 for detailed button descriptions.

4. SETUP

4.1 Power Connection

1. Connect the provided USB Type-C cable to the charging port on the rear panel of the M12 Pro.
2. Connect the other end of the USB cable to a 5V USB power adapter (not included) or a USB port on your device.
3. Turn on the M12 Pro by rotating the OFF/VOL knob clockwise or by pressing the power button on the remote control.

4.2 Antenna Installation

Screw the included antenna onto the antenna connector on the rear panel of the M12 Pro. Ensure it is securely fastened for optimal Bluetooth range and signal stability.

4.3 Audio Connection

Connect the M12 Pro to your audio source (e.g., TV, CD player) or audio sink (e.g., speakers, amplifier) using the appropriate cables (RCA, AUX, Coaxial, Optical) based on your desired mode (Receiver or Transmitter).

5. OPERATING MODES

5.1 Receiver Mode (RX)

In Receiver (RX) mode, the M12 Pro receives Bluetooth audio from your smartphone, tablet, or other Bluetooth-enabled devices and outputs it to your wired speakers, amplifier, or home stereo system.



Image: Receiver Mode Setup

1. Set the M12 Pro to RX mode using the button on the remote or the device. The display will show "RX".
2. Connect the M12 Pro's audio output (AUX or RCA) to your wired speakers or amplifier using the appropriate cable.
3. On your smartphone or tablet, enable Bluetooth and search for "M12 Pro" in the list of available devices.
4. Select "M12 Pro" to pair. Once connected, the display will show the active audio codec.
5. You can now stream audio wirelessly from your device to your connected speakers. The M12 Pro supports simultaneous connection of two mobile phones.

5.2 Transmitter Mode (TX)

In Transmitter (TX) mode, the M12 Pro takes audio from your non-Bluetooth devices (e.g., TV, PC) via its input ports and transmits it wirelessly to Bluetooth headphones or speakers.

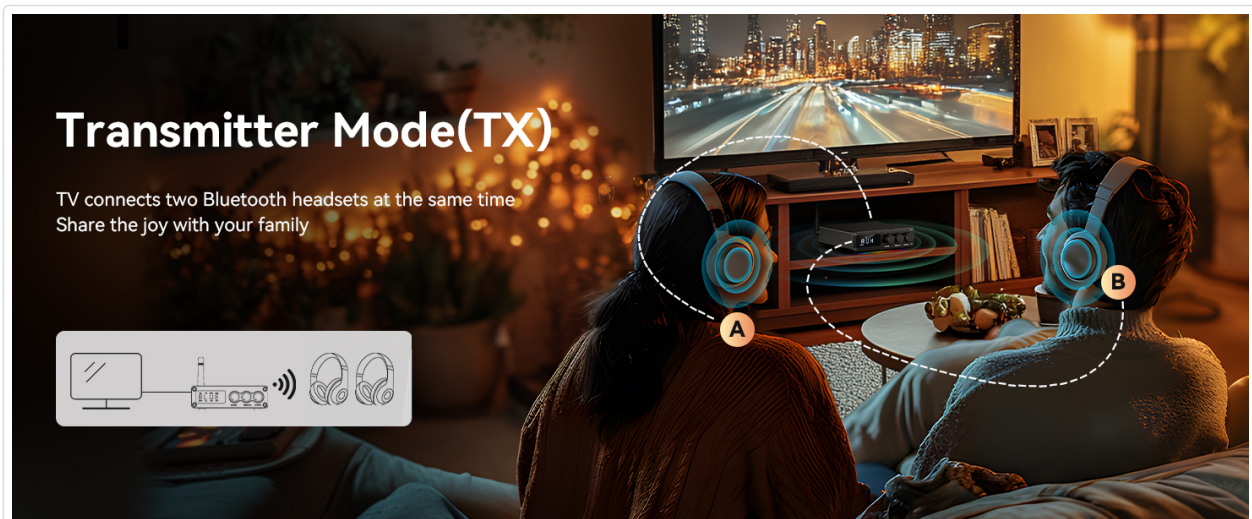


Image: Transmitter Mode Setup

1. Set the M12 Pro to TX mode using the button on the remote or the device. The display will show "TX".
2. Connect your audio source (e.g., TV, computer) to the M12 Pro's audio input (AUX, RCA, Coaxial, or Optical) using the appropriate cable.
3. Put your Bluetooth headphones or speakers into pairing mode.
4. The M12 Pro will automatically search for and connect to nearby Bluetooth devices. You can also initiate a search using the remote control.
5. Once connected, audio from your source device will be transmitted wirelessly to your Bluetooth

headphones or speakers. The M12 Pro supports connecting two Bluetooth headsets simultaneously.

5.3 Wireless Singing Function

The M12 Pro includes two wireless microphones for singing, allowing you to use them with your connected audio system.



Image: Wireless Singing Setup

1. Ensure the M12 Pro is powered on and connected to your speaker system or amplifier.
2. Power on the wireless microphones.
3. For initial pairing, triple-click the power button on the microphone to enter pairing mode, then power on the M12 Pro. The devices should automatically pair.
4. Once paired, the microphones will automatically connect when turned on.
5. Adjust microphone volume and effects through the M12 Pro or your amplifier, if applicable.

6. REMOTE CONTROL FUNCTIONS

The remote control allows for convenient operation of the M12 Pro. Below is a list of its buttons and their functions:

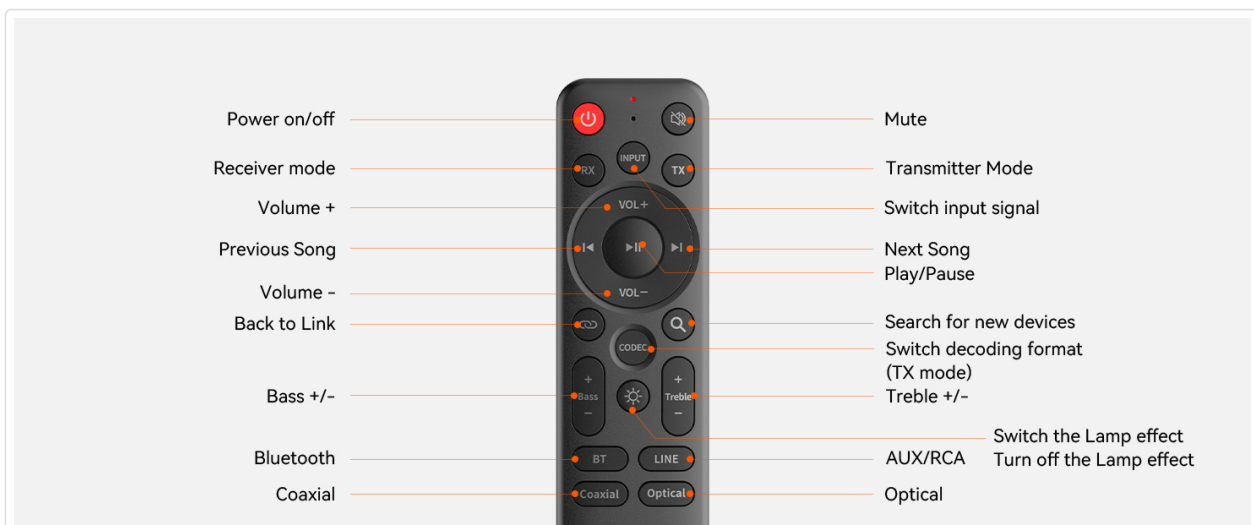


Image: Remote Control Button Layout

- **Power Button:** Turns the device on or off.
- **Mute Button:** Mutes or unmutes the audio output.

- **RX/TX Mode Button:** Switches between Receiver (RX) and Transmitter (TX) modes.
- **Input Button:** Selects the audio input signal source.
- **Volume +/-:** Adjusts the master volume level.
- **Previous Song:** Skips to the previous track (in RX mode).
- **Next Song:** Skips to the next track (in RX mode).
- **Play/Pause:** Plays or pauses audio playback (in RX mode).
- **Back to Link:** Reconnects to the last paired Bluetooth device.
- **Search Button:** Initiates a search for new Bluetooth devices (in TX mode).
- **CODEC Button:** Switches the decoding format (in TX mode).
- **Bass +/-:** Adjusts the bass level.
- **Treble +/-:** Adjusts the treble level.
- **BT Button:** Selects Bluetooth input.
- **LINE Button:** Selects AUX/RCA input.
- **Coaxial Button:** Selects Coaxial input.
- **Optical Button:** Selects Optical input.
- **Lamp Effect Button:** Switches between different RGB ambient lamp effects.
- **Turn Off Lamp Button:** Turns off the RGB ambient lamp.

7. FEATURES

7.1 High-Fidelity Hardware Configuration

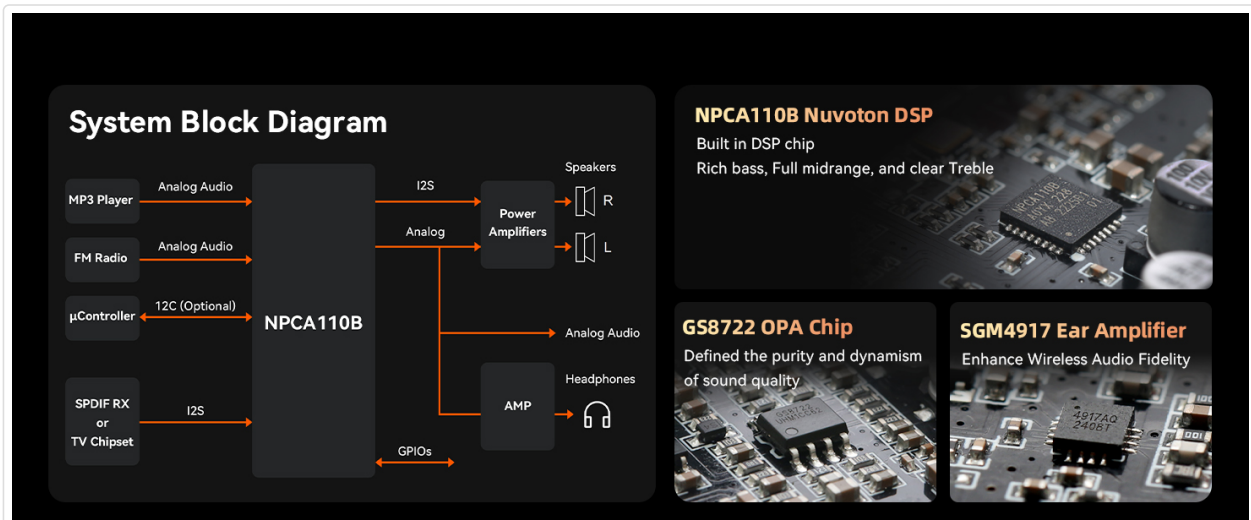


Image: Internal Hardware Components

- **Bluetooth 5.2 Chip:** Provides stable connection, low power consumption, and strong signal transmission up to 98 feet (30 meters).
- **NPCA110B Nuvoton DSP:** Built-in Digital Signal Processor for rich bass, full midrange, and clear treble.
- **GS8722 OPA Chip:** Defines the purity and dynamism of sound quality.
- **SGM4917 Ear Amplifier:** Enhances wireless audio fidelity.

7.2 Digital Display and Adjustable Knobs



Image: Digital Display and Knobs

The LED digital display provides clear information on the device's status, including mode, codec, and connection status. The adjustable knobs allow for precise control over bass, treble, and overall volume.

7.3 RGB Ambient Lamp



Image: RGB Ambient Lamp Effects

The M12 Pro features a hidden RGB ambient lamp with multiple lighting effects (Colorful, Monochrome Cycle, Jump Mode, Breathing Mode). Long press the TREBLE knob or use the remote control to switch between effects or turn off the lamp.

7.4 Battery Life



Image: Battery Life Information

The M12 Pro is equipped with a 2000mAh Lithium Polymer battery. A full charge takes approximately 2 hours and provides up to 18 hours of music playback.

8. TROUBLESHOOTING

- **Device will not power on:**

Ensure the device is properly connected to a 5V power source using the Type-C cable. Check if the power adapter is working.

- **Cannot pair with Bluetooth device:**

Ensure the M12 Pro is in the correct mode (RX for receiving, TX for transmitting). Make sure your Bluetooth device is in pairing mode and within range. Try restarting both the M12 Pro and your Bluetooth device. Clear previous pairing records if necessary.

- **No sound output/input:**

Verify that all audio cables (AUX, RCA, Coaxial, Optical) are securely connected to the correct input/output ports on both the M12 Pro and your audio equipment. Check the volume levels on both the M12 Pro and your connected devices. Ensure the correct input source is selected on the M12 Pro.

- **Poor audio quality or intermittent connection:**

Ensure the M12 Pro and connected Bluetooth devices are within the effective range (up to 98 feet/30 meters) and there are no significant obstacles. Avoid placing the device near sources of interference (e.g., Wi-Fi routers, microwaves).

- **Microphones not working:**

Ensure the microphones are powered on and properly paired with the M12 Pro. Check microphone battery levels.

9. SPECIFICATIONS

Feature	Specification
Model Number	M12 Pro
Bluetooth Version	5.2

Connectivity Technology	Bluetooth
Compatible Devices	Bluetooth Headphones, Bluetooth Speakers, Car Stereo System, Home Stereo System, Laptop, Smartphone, Tablet, Television
Audio Output Mode	Stereo
Surround Sound Channel Configuration	5.1
Connector Type	3.5mm Jack, Coaxial, Optical, RCA
Total HDMI Ports	1 (Note: This specification seems inconsistent with the product images and description, which do not show an HDMI port. Please refer to the physical device for actual ports.)
Special Feature	Volume Control, Digital Display, RGB Ambient Lamp, Wireless Microphones
Battery	1 Lithium Polymer battery (included)
Battery Capacity	2000mAh
Charging Time	Approx. 2 hours
Play Time	Up to 18 hours
Item Weight	2.59 pounds (1.18 Kilograms)
Package Dimensions	11.15 x 9.97 x 2.25 inches

10. MAINTENANCE

- Keep the device away from water, moisture, and extreme temperatures.
- Clean the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Store the device in a cool, dry place when not in use for extended periods.
- Avoid dropping or subjecting the device to strong impacts.

11. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official MOREGAX website. Keep your proof of purchase for warranty claims.

