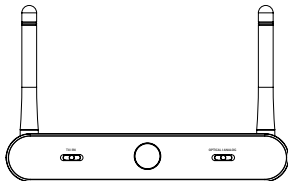




MB12HD

HD Bluetooth Transceiver
Owner's Manual





Safety First

It is a smart idea to read all the enclosed MB12HD SAFETY INFORMATION even if you already know this stuff, you can't be too safe.

Safety Information

Improper use of electricity can cause electric shock, fire or explosion, please read the safety instructions before operating this equipment and keep it for future reference.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO PREVENT THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

IMPORTANT NOTICE: DO NOT MODIFY THIS PRODUCT

Any changes or modification not expressly approved by the company could void the user's authority to operate this equipment.

Safety Information

1. Keep your equipment safe from humidity, prevent moisture in electronics.
2. Don't put the product in direct sunlight or place in hot areas.
3. High temperature will shorten the life of electronic device.
4. Exposure to extremely high or low temperatures can damage the circuit board.
5. Do not attempt to disassemble the product! The warranty will be void for any unauthorized repair or modification.
6. Do not drop or put excessive pressure on the product.
7. Don't use chemical or detergent to clean the product.

8. Due to isolating characteristic of the product, do not use the product at excessive volume while driving or in any other activity where failure to hear surrounding sounds could be dangerous.

9. Using the product at excessive volumes may cause permanent hearing damage.

You can get the most out of your equipment with MB12HD and enjoy great audio performance even at safe levels.

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Thank you

From all of us at McIntosh, thank you for purchasing MB12HD. The MB12HD Bluetooth Transceiver is a precision instrument that will provide many years of enjoyment. Please take a few moments to familiarize yourself with the features and instructions to get the maximum performance from your equipment. If you need further technical assistance, please contact your dealer who may be more familiar with your particular setup including other brands. You can also contact McIntosh China Distributor with additional questions or in the unlikely event of needing service.

GUANGZHOU RICHCOM AUDIO VIDEO TRADING COMPANY LTD

Flat 1516 & 1517, Tower 3, 341 Fu De Lu, Panyu District, Guangzhou, China
Phone: (86) 20-8488-6628
Fax: (86) 20-8488-7728

User Guide

Congratulations on your purchase of the MB12HD Bluetooth Transceiver!

The following pages explain the features and operations of MB12HD. Please take a few moments to read this user guide.

Also read all safety instructions before proceeding. The answers to most set up and performance questions can be found in this guide.

In the Box

- 1) MB12HD Bluetooth Transceiver
- 2) McIntosh Optical Cable x2
- 3) Type C and USB Power Adapter
- 5) McIntosh RCA Stereo Audio Cable x2
- 6) Microfiber Bag
- 7) User Guide
- 8) anti-skid pads x4

Overview

Enjoy a limitless universe of high definition digital music through your existing Hi-Fi audio system. The receiver streams the highest quality audio wirelessly from your Bluetooth enabled device to any music system or powered speakers. The receiver is a true high fidelity component that uses high-end aptX/AAC audio streaming codecs and audiophile grade DAC to unleash all the clarity, crispness and full emotional impact your Hi-Fi stereo system can deliver. Unlike standard Bluetooth receivers, MB12HD Bluetooth Transceiver provides ultimate wireless freedom with the longest wireless range.

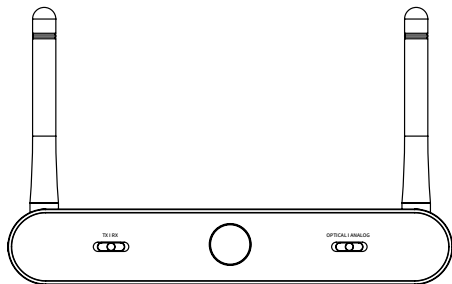
MB12HD can transmit signals to two pairs of headphones at the same time.

Key and parts

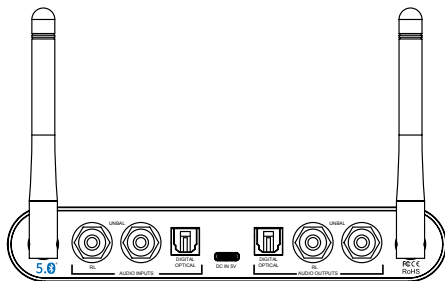
- 1) Antenna x2
- 2) Power / Pair button
- 3) Transmit/receive switches, analog and digital switches,
- 4) RCA Stereo input
- 5) RCA Stereo output
- 6) Toslink optical 24-bit digital (output/input) 1 each
- 7) DC power input



Front Panel



Rear Panel



Quick Setup

Setup and pairing is really easy.

The following instructions will help you connect the receiver to your music system and pair with your tablet, computer or smartphone.

This is a transceiver, In the TX mode, the product can be used as a Bluetooth transmitter; In the RX mode, the product can be used as a Bluetooth receiver.

Step 1: Connect audio cables from the receiver rear panel to audio output (TX mode) or audio playback device (RX mode)

Step 2: Connect a power adapter to the bluetooth receiver with the provided power cord and plug the power adapter into an AC outlet.

The receiver will automatically go into pair mode. The LED light will start flashing to indicate the unit is now ready to be paired.

Step 3: To enter pairing mode, please double click the power/pairing button when the LED blinks

Step 4: TX mode: Pair and connect to Bluetooth Device (i.e. Bluetooth earbuds, speakers, etc)

RX mode: the Bluetooth adapter could be used as a Bluetooth receiver and work with your smart device.

Step 5: TX mode: Product will automatically scan the bluetooth receiver. Once successfully paired, the LED will turn SOLID.

RX mode: Your smart device will scan all the available bluetooth devices, select “MB12HD” to pair and connect. Once successfully paired, the LED will turn SOLID.

Step 6: Select a correct audio channel on your product (set the front channel switch to OPTICAL when connecting to optical output or input; set the front channel switch to ANALOG when connecting to Analog output or input)





Quick Setup, Con't

Step 7: In the TX mode: MB12HD could be used as a Bluetooth transmitter, so audio output device can connect with Bluetooth receiver.

In the RX mode: MB12HD could be used as a Bluetooth receiver to non-Bluetooth stereos, pair the Bluetooth receiver with your smart device and listen music with Hi-Fi system.

Repeat step 2 - 5 to add more devices. You can connect the MB12HD with 2 bluetooth devices at the same time, and it can remember eight devices.

License Information

Trademark Logo	License Information
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 Qualcomm® aptX™ HD	Qualcomm® aptX™ is a product of Qualcomm Technologies, Inc. and/or its subsidiaries. Qualcomm is a trademark of Qualcomm Incorporated, registered in the United States and other countries. aptX is a trademark of Qualcomm Technologies International, Ltd., registered in the United States and other countries.

Technical Specifications

Bluetooth Version

5.0 with aptX HD, aptX Low Latency

Supported Codecs

aptX, AAC, SBC, A2DP

Bluetooth Range

40m, 131feet

Input

Bluetooth, Digital To Analog RCA, Digital to analog OPT

Output

Bluetooth, Analog RCA to Digital, Analog OPT to Digital

Input Power

<100MA

Output Voltage

5V

D/A Converter

PCM5102A

Frequency Response 10Hz – 20kHz (+/- 0.5dB)/112 dB

Signal-To-Noise Ratio

>~75dB

Total Harmonic Distortion

<3%

Latency

~40 milliseconds (ms)

Enclosure

Aluminum

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.



The continuous improvement of its products is the policy of McIntosh Laboratory Incorporated who reserve the right to improve design without notice.