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## XDuo MX-02

# XDuo MX-02 HD Bluetooth Transmitter User Manual

Model: MX-02

## 1. INTRODUCTION

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The XDuo MX-02 is a versatile HD Bluetooth 5.4 transmitter designed to convert various wired audio sources into high-quality wireless Bluetooth signals. It supports multiple input interfaces and advanced Bluetooth codecs, providing an enhanced audio experience for a wide range of devices.

This manual provides detailed instructions for setting up, operating, and maintaining your MX-02 device. Please read it thoroughly before use to ensure optimal performance and longevity.



Figure 1: Front view of the XDuo MX-02 HD Bluetooth Transmitter, showing the display and control knob.

## 2. KEY FEATURES

- **Multiple Input Interfaces:** USB, Optical, Coaxial, and Line input for broad compatibility with audio devices.
- **High-Resolution Audio Support:** Coaxial and Optical inputs support up to 24bit/192kHz. USB input supports up to 24bit/96kHz.
- **Advanced Bluetooth 5.4:** Ensures stable connection, extended transmission range (approx. 50m unobstructed), and low latency.
- **Versatile Bluetooth Codec Support:** Includes SBC, aptX, aptX HD, aptX Adaptive (with Low Latency, High Quality, Lossless options), LC3, and aptX Lite.
- **Low Transmission Latency:** Less than 20ms, with even lower latency in Game Mode.
- **High-Definition TFT Color Display:** Provides intuitive operation and settings management.

## 3. PACKAGE CONTENTS

Please check the package for the following items:

- XDuo MX-02 HD Bluetooth Transmitter Unit
- USB-C Power Cable
- Bluetooth Antenna
- User Manual (this document)
- *(Additional cables or accessories may vary by region or retailer)*

## 4. DEVICE OVERVIEW

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### 4.1 Front Panel



Figure 2: Front panel of the MX-02, highlighting the display screen and multi-function knob.

1. **Display Screen:** Shows current status, input source, Bluetooth codec, connected devices, and menu options.
2. **Multi-function Knob:** Rotate to navigate menus or adjust settings; press to confirm selection or power on/off.
3. **Indicator Light:** Provides status feedback (e.g., power, Bluetooth pairing).

### 4.2 Rear Panel



Figure 3: Rear panel of the MX-02, showing all input and power ports.

1. **Line In (RCA):** Analog audio input (Left/Right).
2. **Coaxial Input:** Digital audio input.
3. **Optical Input:** Digital audio input (TOSLINK).
4. **USB In:** USB audio input (Type-B).
5. **Antenna Connector:** For attaching the Bluetooth antenna.
6. **DC IN (5V):** USB-C power input.

## 5. SETUP INSTRUCTIONS

### 5.1 Initial Connection

1. **Attach Antenna:** Screw the provided Bluetooth antenna onto the antenna connector on the rear panel of the MX-02. Ensure it is securely fastened.
2. **Power Connection:** Connect the USB-C power cable to the "DC IN (5V)" port on the rear of the MX-02 and plug the other end into a 5V USB power adapter (not included) or a compatible USB port.

3. **Power On:** Press and hold the multi-function knob on the front panel for a few seconds until the display screen illuminates.

## 5.2 Connecting Audio Sources

The MX-02 supports various audio input methods. Choose the appropriate connection for your source device:

- **USB Input:** Connect a USB cable from your computer, PS5, or Nintendo Switch to the "USB IN" port on the MX-02. The MX-02 will be recognized as an audio output device.
- **Coaxial Input:** Use a coaxial cable to connect your CD player, TV, or other device with a coaxial output to the "COAXIAL" port on the MX-02.
- **Optical Input:** Use an optical (TOSLINK) cable to connect your TV, CD player, or other device with an optical output to the "OPTICAL" port on the MX-02.
- **Line Input (RCA):** Use RCA cables to connect analog audio sources (e.g., turntable pre-amp, older CD players) to the "LINE IN (R/L)" ports on the MX-02.

# Wired-to-Wireless Audio Upgrade Solution for TVs / CD Players

The MX-02 is equipped with coaxial and optical input interfaces, supporting high-resolution audio specifications up to 24bit/192kHz. Simply connect it to the coaxial / optical interface of your TV or CD player, and it can losslessly convert the audio signal output by the device into a high-definition Bluetooth signal.

After the signal is transmitted to your Bluetooth speaker or headphones, it effectively enhances the sound quality performance of Bluetooth listening, allowing you to enjoy more delicate and true-to-original sound even with a wireless connection.





**Figure 4:** Example setup showing the MX-02 connecting a TV and turntable to wireless headphones/speakers.

This image illustrates how the MX-02 can convert wired audio from devices like a television or a turntable into a Bluetooth signal for wireless transmission.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Selecting Input Source

After powering on, the MX-02 display will show the current input source. To change the input:

1. Rotate the multi-function knob to navigate through the available input options (USB, Coaxial, Optical, Line).
2. Press the knob to select the desired input source.

### 6.2 Bluetooth Pairing

To transmit audio wirelessly, you need to pair the MX-02 with your Bluetooth receiving device (headphones, speakers, etc.):

1. Ensure your Bluetooth receiving device is in pairing mode. Refer to your device's manual for instructions.
2. On the MX-02, navigate to the Bluetooth pairing menu using the multi-function knob.
3. Select "Search for Devices" or a similar option. The MX-02 will scan for nearby Bluetooth devices.
4. Once your device appears on the MX-02 display, select it and confirm pairing.
5. A successful connection will be indicated on the MX-02 display.

### 6.3 Managing Bluetooth Codecs

The MX-02 allows you to select preferred Bluetooth audio codecs to optimize for sound quality or low latency:

# High-Definition Color Display Intuitive Operation & Settings

The MX-02 is equipped with a high-definition TFT color display. It not only clearly shows the device's current working status (such as connected devices and Bluetooth format), but also intuitively assists with various operation settings—no need for repeated trial and error, making it easier to get started.



**Figure 5:** The MX-02's high-definition color display showing options for Bluetooth audio codec selection and other settings. This image demonstrates the intuitive menu system for configuring Bluetooth codecs and other operational parameters.

1. Access the "Bluetooth Audio Codec" menu via the multi-function knob.
2. Rotate the knob to highlight the desired codec (e.g., aptX HD for high quality, aptX Adaptive for balanced performance, aptX Low Latency or LC3 for gaming).
3. Press the knob to confirm your selection. The MX-02 will attempt to use this codec with the connected device.

Note: The actual codec used depends on the capabilities of both the MX-02 and your receiving Bluetooth device. The MX-02 will automatically negotiate the best available codec.

## 6.4 System Settings

The MX-02 offers various system settings accessible through its menu:

- **Screen Off:** Adjust display timeout settings.
- **Auto Power On:** Configure automatic power-on behavior.
- **Language:** Select the display language.
- **Factory Reset:** Reset all settings to default.

Navigate these options using the multi-function knob and press to confirm changes.

## 7. MAINTENANCE AND CARE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or solvents.
- **Storage:** Store the MX-02 in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or subjecting the device to strong impacts.
- **Ventilation:** Ensure proper ventilation around the device to prevent overheating. Do not block ventilation openings.
- **Power:** Always use a 5V/0.25A compatible USB power source.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power	Power cable not connected or faulty; power adapter not working.	Check USB-C power cable connection. Try a different USB power adapter or port.
No audio output	Incorrect input source selected; Bluetooth device not paired or connected; volume too low; faulty cables.	Verify the correct input source is selected on the MX-02. Ensure your Bluetooth receiving device is paired and connected. Check volume levels on both the MX-02 (if applicable) and the receiving device. Inspect audio cables for damage and ensure they are securely connected.
Bluetooth pairing fails	Receiving device not in pairing mode; too far from MX-02; interference.	Put your Bluetooth receiving device into pairing mode. Move the devices closer together. Ensure no other strong wireless signals are causing interference. Try restarting both devices.
Poor sound quality / dropouts	Weak Bluetooth signal; interference; incorrect codec selected.	Reduce distance between MX-02 and receiving device. Remove obstacles. Check for sources of interference (Wi-Fi routers, microwaves). Try a different Bluetooth codec if available.
USB audio not recognized	Incorrect USB cable; driver issue (for PC); source device not configured for USB audio output.	Ensure you are using a data-capable USB cable. For PC, check device manager for drivers (usually plug-and-play). Configure your source device (e.g., computer, console) to output audio via USB to the MX-02.

## 9. SPECIFICATIONS

Feature	Detail
Model	MX-02
Power Interface	USB-C (for 5V DC power)
Power Consumption	5V/0.25A
Inputs	USB (Type-B), Coaxial, Optical (TOSLINK), Line (RCA L/R)
USB Audio Support	Up to 24bit/96kHz
Coaxial/Optical Audio Support	Up to 24bit/192kHz
Bluetooth Version	5.4
Classic Bluetooth Formats	SBC, aptX, aptX HD, aptX Adaptive (aptX Low Latency, aptX High Quality, aptX Lossless)
LE Audio Formats	LC3, aptX Lite
Transmission Latency	<20ms (lower in Game Mode)
Transmission Range	Approx. 50m (unobstructed environment)
Dimensions (L x W x H)	12.0 x 10.2 x 4.2 cm
Weight	0.36 kg
Manufacturer	XDuo

	<b>24bit/192kHz</b>	Standard Audio
Audio Bit Depth (bit)	<b>24bit</b>	<b>16bit</b>
Sampling Rate (kHz)	<b>192kHz</b>	<b>44.1kHz</b>
Data Volume	<b>23MB per second</b>	<b>1.4MB per second</b>
Industry Status	<b>Mainstream High-End Audio Standard</b>	<b>Traditional Audio Standard</b>

**Figure 6:** Comparison illustrating the benefits of 24bit/192kHz high-resolution audio supported by the MX-02.

This table highlights the superior bit depth, sampling rate, and data volume of high-resolution audio compared to traditional audio standards.

## 10. WARRANTY AND SUPPORT

The XDuo MX-02 comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package or visit the official XDuo website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or service inquiries, please contact your retailer or the official XDuo customer support channels.

**Manufacturer:** XDuo

**Model:** MX-02



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