miccus MHRTX-PRO

Miccus RTX PRO HDMI Bluetooth Transmitter Receiver User Manual

INTRODUCTION

This manual provides comprehensive instructions for setting up and operating your Miccus RTX PRO, a versatile Bluetooth 5.1 audio transmitter and receiver. The RTX PRO is designed to enhance your audio experience by wirelessly streaming sound from various sources to Bluetooth-enabled devices, or receiving audio from your mobile devices to your home stereo system. It supports advanced audio codecs like aptX HD for high-fidelity sound and aptX Low Latency for synchronized audio with video.

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Video: Miccus Home RTX Pro Overview. This video provides a general overview of the Miccus Home RTX Pro's features and capabilities.

WHAT'S IN THE BOX

Please ensure all items are present before proceeding with setup:

- Miccus Home RTX Pro Unit
- Dipole Antenna
- HDMI Cable
- Optical Cable
- AUX/3.5mm Cable
- USB-C Power Cable
- USB Power Supply

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Video: Miccus RTX Pro Unboxing. This video demonstrates the unboxing process and shows the contents included with the RTX Pro.

PRODUCT OVERVIEW

The Miccus RTX PRO is a compact and powerful audio adapter designed for seamless wireless audio integration into your home entertainment system. It features multiple input and output options to ensure compatibility with a wide range of devices.

Image: Front view of the Miccus RTX PRO unit, showcasing its sleek design and indicator lights.

Key Features:

- Bluetooth 5.1 with aptX HD and aptX Low Latency support
- HDMI, Optical, and 3.5mm audio input/output options
- Dedicated Transmitter (TX) and Receiver (RX) modes
- Dual-link support for connecting two headphones simultaneously
- Long-range wireless performance

Ports and Indicators:

Image: Rear view of the Miccus RTX PRO, highlighting the various input and output ports.

- **HDMI Input (From TV):** Connects to your TV source (e.g., Cable Box, Roku).
- **HDMI Output (To Speaker):** Connects to your TV.
- **Optical Input/Output:** Digital audio connection.
- **3.5mm Input/Output:** Analog audio connection.
- **USB-C Power:** For power supply.
- **Antenna Port:** For connecting the dipole antenna.
- **Mode Switch (TX/RX):** Toggles between Transmitter and Receiver modes.
- **Codec Select (LL/HD):** Selects aptX Low Latency or aptX HD priority.

SETUP INSTRUCTIONS

HDMI Transmitter (TX) Mode Setup

Use this mode to transmit audio from your TV or other HDMI source to Bluetooth headphones or speakers.

1. Connect your video source (e.g., Cable/Sat Box, Apple TV, Roku) to the RTX PRO's **HDMI Input (From TV)** port using an HDMI cable.

2. Connect the RTX PRO's **HDMI Output (To Speaker)** port to an available HDMI input on your TV using another HDMI cable.

3. Ensure the RTX PRO is set to **TX (Transmitter)** mode.

4. Power on the RTX PRO using the provided USB-C power cable and adapter.

5. Put your Bluetooth headphones or speaker into pairing mode. The RTX PRO will automatically search and connect to the nearest available device.

Note: *HDMI ARC is NOT supported. If HDMI is the desired connection, it must be on the input side of the RTX PRO.*

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Video: How to Setup RTX Pro HDMI. This video demonstrates the step-by-step process for setting up the RTX Pro in HDMI Transmitter mode.

Image: Diagram illustrating the connections for HDMI Transmitter mode, showing the flow from source to RTX PRO to TV.

Optical Receiver (RX) Mode Setup

Use this mode to receive audio from your phone or laptop via Bluetooth and play it through your home stereo or soundbar.

1. Connect your soundbar or AV receiver to the RTX PRO's**Optical Output (To Speaker)** port using an optical cable.
2. Ensure the RTX PRO is set to**RX (Receiver)** mode.
3. Power on the RTX PRO using the provided USB-C power cable and adapter.
4. On your phone or laptop, search for Bluetooth devices and select "Miccus RTX PRO" to pair.

Note: In RX mode, the HDMI port is not active. Connection out must be made via Optical or 3.5mm. The RTX Pro does not convert analog audio to digital audio or vice versa.

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Video: How to Setup RTX Pro Optical. This video guides you through setting up the RTX Pro in Optical Receiver mode.

OPERATING INSTRUCTIONS

Pairing Bluetooth Devices

To pair a new Bluetooth device with the RTX PRO:

1. Ensure the RTX PRO is powered on and in the desired mode (TX or RX).
2. Put your Bluetooth headphones or speaker (in TX mode) or your phone/laptop (in RX mode) into pairing mode. Refer to your device's manual for specific instructions.
3. The RTX PRO will automatically search for and connect to the nearest available Bluetooth device. Indicator lights on the RTX PRO will confirm a successful connection.
4. For dual-link (connecting two headphones), after the first device is paired, put the second device into pairing mode. The RTX PRO will attempt to connect to it.

Mode Selection (TX/RX)

Use the TX/RX switch on the RTX PRO to select the desired operating mode:

- **TX (Transmitter) Mode:** Transmits audio from the RTX PRO's inputs to Bluetooth headphones or speakers.
- **RX (Receiver) Mode:** Receives audio from a Bluetooth source (e.g., phone) and outputs it through the RTX PRO's audio outputs.

Codec Selection (aptX HD / aptX Low Latency)

The RTX PRO supports both aptX HD for superior audio quality and aptX Low Latency for minimal audio delay. Use the LL/HD switch to prioritize your preferred codec:

- **aptX HD:** Provides 24-bit "better than CD" sound quality. Ideal for music listening.
- **aptX Low Latency:** Ensures audio is in sync with video, ideal for watching TV or movies.

Note: For aptX codecs to be active, both the RTX PRO and the connected Bluetooth device must support the selected codec.

Image: Diagram illustrating the three operational modes: Transmitter, Receiver, and Bypass, showing how audio flows in each scenario.

Long Range Performance

The Miccus RTX PRO is engineered for extended range, allowing you to enjoy wireless audio throughout your home or yard. Its signal booster and extender capabilities enable streaming through walls and even outdoors, providing greater freedom of movement without audio drops.

Image: A diagram illustrating the extensive long-range coverage of the RTX PRO, showing signal penetration through multiple rooms and outdoor areas.

Note: *Wi-Fi can cause interference. If experiencing issues, temporarily turn off your Wi-Fi router during Bluetooth setup, then turn it back on. The RTX PRO will map around frequencies used by Wi-Fi.*

SPECIFICATIONS

Feature	Detail
Product Dimensions	5.98"L x 3.35"W x 1.04"H
Item Weight	1.19 pounds
Item Model Number	MHRTX-PRO
Brand	Miccus
Hardware Interface	Bluetooth, USB

Compatible Devices	Headphone, Laptop, Speaker, Television
Data Link Protocol	Bluetooth 5.1
UPC	896750002469

TROUBLESHOOTING

- **No Sound:**

  - Check all cable connections (HDMI, Optical, 3.5mm) are secure.
  - Ensure the RTX PRO is in the correct TX/RX mode for your setup.
  - For Optical connections, set your TV's audio output format to PCM or Stereo. Dolby/DTS are not supported and may result in no sound.
  - Verify that your connected Bluetooth device (headphones/speaker) is powered on and has sufficient volume.

- **Unable to Pair:**

  - Ensure the RTX PRO is in pairing mode (indicator light flashing).
  - Put your Bluetooth device into pairing mode.
  - Clear previous pairings on both the RTX PRO and your Bluetooth device, then try pairing again.
  - Move the devices closer together during the pairing process.

- **Short Range or Audio Drops:**

  - Ensure the dipole antenna is securely attached and oriented for optimal reception.
  - Minimize physical obstructions (walls, metal objects) between the RTX PRO and your Bluetooth device.
  - Temporarily disable nearby Wi-Fi routers during setup to reduce potential interference.
  - Ensure your paired device is fully charged.

- **Audio Lip Sync Delay:**

  - Verify that both the RTX PRO and your connected Bluetooth headphones/speaker support aptX Low Latency.
  - Select aptX-LL using the Codec Select switch on the RTX PRO.

MAINTENANCE

To ensure the longevity and optimal performance of your Miccus RTX PRO, follow these maintenance guidelines:

- Keep the device clean by wiping it with a soft, dry cloth. Avoid using liquid cleaners or solvents.
- Protect the device from extreme temperatures, direct sunlight, and high humidity.
- Do not attempt to disassemble, modify, or repair the unit yourself. This may void your warranty and cause damage.
- Store the device in a cool, dry place when not in use.

WARRANTY AND SUPPORT

The Miccus RTX PRO is manufactured by Miccus, Inc. For detailed warranty information, technical assistance, or customer support, please visit the official Miccus website or contact their customer service department directly.

Please have your model number (MHRTX-PRO) and proof of purchase available when seeking support.