

Renkforce BTHP-100

Renkforce BTHP-100 Bluetooth Transmitter/Receiver User Manual

Model: BTHP-100

1. INTRODUCTION

The Renkforce BTHP-100 is a versatile Bluetooth device designed to function as both a transmitter and a receiver. This unit allows you to wirelessly stream audio from non-Bluetooth devices to Bluetooth-enabled headphones or speakers (Transmitter mode), or to receive audio from Bluetooth sources like smartphones and tablets to non-Bluetooth audio systems (Receiver mode). It supports Bluetooth Version 4.2 with aptX and SBC codecs, offering a range of up to 100 meters in optimal conditions.



Figure 1: Renkforce BTHP-100 Bluetooth Transmitter/Receiver, angled view.

2. PACKAGE CONTENTS

Please check the package contents upon unpacking to ensure all items are present and undamaged. If any items are missing or damaged, please contact your retailer.

- Renkforce BTHP-100 Bluetooth Transmitter/Receiver
- USB Power Cable
- 3.5mm Audio Cable
- RCA Audio Cable
- User Manual (this document)



Figure 2: Renkforce BTHP-100 unit with its included USB power cable, 3.5mm audio cable, and RCA audio cable.

3. DEVICE LAYOUT

Familiarize yourself with the various ports and indicators on the BTHP-100 unit.



Figure 3: Rear view of the Renkforce BTHP-100, highlighting the RX Output (AUX, Optical), TX Input (Optical, AUX), and DC IN power port.

Front Panel Indicators and Controls:

- **RX/TX Switch:** Toggles between Receiver and Transmitter modes.
- **OPT/AUX Indicator:** Shows the currently selected audio input/output type (Optical or Auxiliary).
- **SBC/aptX/LL Indicator:** Displays the active Bluetooth audio codec (SBC, aptX, or aptX Low Latency).
- **Pairing Button:** Initiates Bluetooth pairing mode.
- **Volume Buttons (+/-):** Adjusts audio volume.

4. SETUP

4.1 Power Connection

1. Connect the supplied USB power cable to the DC IN port on the BTHP-100.
2. Plug the other end of the USB cable into a USB power adapter (not included) or a powered USB port (e.g., on a computer or TV).
3. The device will power on automatically.

4.2 Mode Selection (Transmitter/Receiver)

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

- **TX (Transmitter) Mode:** To send audio from a non-Bluetooth device (e.g., TV, stereo) to Bluetooth headphones or speakers.
- **RX (Receiver) Mode:** To receive audio from a Bluetooth device (e.g., smartphone, tablet) and output it to a non-Bluetooth audio system (e.g., wired speakers, amplifier).



Figure 4: Diagram showing the dual functionality of the Renkforce BTHP-100 as both a Bluetooth transmitter and receiver.

5. OPERATING INSTRUCTIONS

5.1 Transmitter (TX) Mode

In TX mode, the BTHP-100 sends audio from a connected source to Bluetooth headphones or speakers.

1. Set the RX/TX switch to **TX**.
2. **Connect Audio Source:**
 - For **Optical Audio**: Connect an optical cable from your audio source's optical output to the BTHP-100's **TX Input (Optical)**.
 - For **Auxiliary Audio**: Connect a 3.5mm audio cable from your audio source's headphone jack or audio output to the BTHP-100's **TX Input (AUX)**.
3. **Pairing:**
 - Put your Bluetooth headphones/speakers into pairing mode.
 - Press the Pairing button on the BTHP-100. The Bluetooth indicator will flash, indicating it is searching for devices.

- Once connected, the Bluetooth indicator will remain solid, and the codec indicator (SBC/aptX/LL) will light up.

4. **Audio Playback:** Start playing audio on your source device. The sound will be transmitted to your paired Bluetooth device.



Figure 5: Example of the Renkforce BTHP-100 in Transmitter mode, sending TV audio to Bluetooth headphones via an optical cable.

5.2 Receiver (RX) Mode

In RX mode, the BTHP-100 receives audio from a Bluetooth source and outputs it to a connected audio system.

1. Set the RX/TX switch to **RX**.
2. **Connect Audio Output:**
 - For **Optical Audio:** Connect an optical cable from the BTHP-100's **RX Output (Optical)** to your audio system's optical input.
 - For **Auxiliary Audio:** Connect a 3.5mm audio cable (or RCA adapter) from the BTHP-100's **RX Output (AUX)** to your audio system's auxiliary input.
3. **Pairing:**
 - On your Bluetooth source device (e.g., smartphone), enable Bluetooth and search for new devices.
 - Select "Renkforce BTHP-100" from the list of available devices.
 - Once connected, the Bluetooth indicator on the BTHP-100 will remain solid, and the codec indicator will light up.
4. **Audio Playback:** Start playing audio on your Bluetooth source device. The sound will be output through your connected audio system.

5.3 Volume Control

Use the + and - buttons on the BTHP-100 to adjust the output volume. Note that volume control may also be available on your connected source or receiving device.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Renkforce BTHP-100, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the device. Do not use liquid cleaners or abrasive materials, as they

may damage the surface or internal components.

- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the device or subjecting it to strong impacts.
- **Environment:** Keep the device away from water, moisture, and excessive dust.

7. TROUBLESHOOTING

If you encounter issues with your Renkforce BTHP-100, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Power cable not connected properly; faulty USB power source.	Ensure USB cable is securely connected. Try a different USB port or power adapter.
Cannot pair device	Device not in pairing mode; too far from BTHP-100; interference.	Ensure both devices are in pairing mode. Move devices closer. Reduce interference from other wireless devices.
No sound (TX mode)	Incorrect audio input selected; volume too low; source device not playing audio.	Verify the correct audio input (Optical/AUX) is selected. Increase volume on BTHP-100 and receiving device. Ensure source device is playing audio.
No sound (RX mode)	Incorrect audio output selected; volume too low; receiving device not selected as input.	Verify the correct audio output (Optical/AUX) is selected. Increase volume on BTHP-100 and connected audio system. Ensure your audio system is set to the correct input.
Poor audio quality or dropouts	Distance too great; obstacles; interference; low battery on paired device.	Move devices closer. Remove obstacles. Check battery level of paired Bluetooth device.

8. SPECIFICATIONS

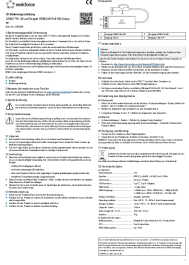
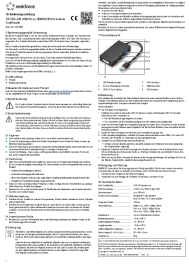



- **Model:** BTHP-100
- **Product Number:** 1628712
- **Bluetooth Version:** 4.2
- **Supported Codecs:** aptX, SBC
- **Operating Range:** Up to 100 meters (in open areas)
- **Audio Inputs (TX Mode):** Optical, 3.5mm AUX
- **Audio Outputs (RX Mode):** Optical, 3.5mm AUX
- **Power Input:** DC 5V via USB
- **Dimensions (L x W x H):** Approximately 11.42 x 9.15 x 1.93 cm
- **Weight:** Approximately 75 grams
- **Color:** Black

9. WARRANTY AND SUPPORT

Renkforce products are designed for reliability and performance. This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided at the time of purchase or contact your retailer.

For technical support or further assistance, please contact your point of purchase or visit the official Renkforce website for support resources.

Related Documents - BTHP-100

	<p>Renkforce USB-C/A 3.0 to Dual HDMI Adapter (4K/Full HD) - Operating Instructions</p> <p>Operating instructions for the Renkforce USB-C™/A 3.0 to Dual HDMI Adapter, enabling connection of two HDMI displays to a computer. Includes setup, safety, and technical specifications.</p>
	<p>Renkforce RF-VDA-310 USB 3.0 to HDMI/DVI/VGA External Graphics Card Operating Instructions</p> <p>Concise operating instructions and technical specifications for the Renkforce RF-VDA-310, a USB 3.0 to HDMI/DVI/VGA external graphics card adapter. Covers intended use, delivery contents, safety, operation, cleaning, and technical data.</p>
	<p>Renkforce Adapter USB-C to HDMI User Manual - Model 3350214</p> <p>Comprehensive user manual for the Renkforce Adapter USB-C to HDMI (Model 3350214), covering setup, safety, technical specifications, and disposal. Learn how to connect your USB-C devices to HDMI displays.</p>
	<p>Renkforce USB 3.0 to 4K HDMI Graphics Adapter User Manual</p> <p>User manual for the Renkforce USB 3.0 to 4K HDMI Graphics Adapter (Item No. 2357536). Provides instructions on intended use, safety, features, driver installation, display mode settings for Windows and Mac, technical specifications, and care.</p>
	<p>Renkforce USB-C to USB-A Adapter with USB-C Charging Port - User Manual</p> <p>Comprehensive user manual for the Renkforce USB-C to USB-A adapter, detailing its intended use, delivery content, safety instructions, operation, cleaning, disposal, and technical specifications. Enables connection of USB-A DisplayLink docking stations to USB-C devices and supports USB Power Delivery.</p>



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Bedienungsanleitung für den renkforce Radio-Adapter DAB+, UKW Internetradio, WLAN, LAN, Bluetooth, CD DLNA-fähig (Best.-Nr. 3374173). Enthält Informationen zur Einrichtung, Bedienung, Funktionen und Fehlerbehebung.