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› BovBox WL097PRO 4K Wireless HDMI Transmitter and Receiver User Manual

BovBox WL097PRO

BovBox WL097PRO 4K Wireless HDMI Transmitter and Receiver User Manual

Model: WL097PRO | Brand: BovBox

1. INTRODUCTION

The BovBox WL097PRO is a 4K wireless HDMI transmitter and receiver kit designed for high-quality video and audio transmission. It supports 4K UHD video and audio, offering a stable and low-latency experience, especially for 1080P content. Featuring plug-and-play functionality with auto-pairing, dual-band 5G/2.4GHz technology, and multiple power options, this kit is versatile for various applications including live broadcasting, filmmaking, sports, education, weddings, and events.



Image: BovBox WL097PRO 4K Wireless HDMI Transmitter and Receiver kit with antennas attached.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x Transmitter (TX) Unit
- 1 x Receiver (RX) Unit
- 4 x Antennas
- 2 x USB-C Power Cables
- 2 x Power Adapters
- 1 x User Manual
- 1 x Portable Carrying Case

Video: Unboxing the BovBox WL097PRO kit, showing all included components.



Image: All components of the BovBox WL097PRO kit laid out, including the portable case, transmitter, receiver, antennas, USB-C cables, power adapters, and user manual.

3. PRODUCT OVERVIEW

The BovBox WL097PRO units are compact and designed for ease of use. Both the Transmitter (TX) and Receiver (RX) units feature multiple ports and indicators for seamless operation.

3.1. Unit Features

- **HDMI Ports:** The TX unit has an HDMI IN and an HDMI OUT (loop-out). The RX unit has two HDMI OUT ports.
- **Audio Interface:** A 3.5mm audio output port is available on the RX unit for connecting external audio devices.
- **USB-C Power Port:** Both units are powered via a 5V/2A USB-C port.
- **Reset Button:** A small reset button is present for troubleshooting or re-pairing.
- **Battery Plate:** Both units are compatible with NP-F series batteries (not included) for portable power.
- **Mounting Holes:** Standard 1/4-inch screw holes are located on the bottom and side of each unit for versatile mounting options, including cameras and tripods.
- **Indicators:** LED indicators show power status, signal strength, and battery level.



Image: Front view of the BovBox WL097PRO Transmitter and Receiver, highlighting key features and ports.

Image: Close-up of the BovBox WL097PRO units, showing the camera-specific screw holes for mounting.

4. SETUP

The BovBox WL097PRO system is designed for plug-and-play operation with factory auto-pairing. Follow these steps to set up your wireless HDMI system.

4.1. Connecting the Receiver (RX)

1. Attach the antennas to the RX unit by screwing them into the designated ports.
2. Connect the RX unit to a power source using one of the provided USB-C cables and power adapters (or an NP-F battery). The power indicator light will illuminate.
3. Connect an HDMI cable from one of the HDMI OUT ports on the RX unit to the HDMI input of your display device (TV, monitor, projector).
4. Once powered and connected, the green light on the RX unit will light up, indicating it is ready to receive a

signal.

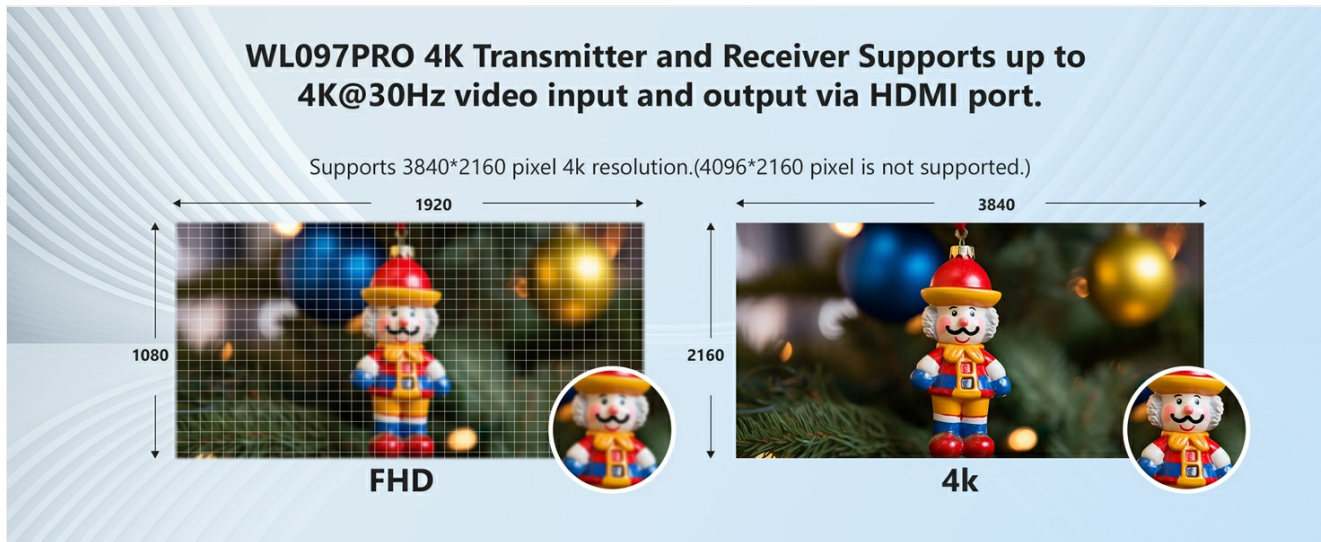


Image: Diagram showing the connection of the BovBox WL097PRO Receiver (RX) to a television, including power and HDMI cables.

4.2. Connecting the Transmitter (TX)

1. Attach the antennas to the TX unit by screwing them into the designated ports.
2. Connect the TX unit to a power source using the second USB-C cable and power adapter (or an NP-F battery). The power indicator light will illuminate.
3. Connect an HDMI cable from the HDMI output of your source device (laptop, PC, camera, DVD player) to the HDMI IN port on the TX unit.
4. The green light on the TX unit will flash while searching for the receiver and then become solid once a connection is established.



Plug and Play

Pre Pairing & Stream
No Need App or Bluetooth



1.Plug Receiver and External Antenna to HD Input device like TV, and plug USB cable to power supply 5V/2A



2.insert Transmitter to HD Output device like laptop and plug USB cable to power supply 5V/2A
3.installation succeeded

Image: Diagram illustrating the connection of the BovBox WL097PRO Transmitter (TX) to a laptop, showing power and HDMI cables.

Video: A demonstration of connecting the BovBox WL097PRO Transmitter and Receiver units, including power and HDMI connections.

5. OPERATING INSTRUCTIONS

5.1. Basic Operation

Once both TX and RX units are powered on and connected as described in the Setup section, the video and audio signal from your source device will be automatically transmitted wirelessly to your display. No additional software or app installation is required.

5.2. Multi-Receiver Setup

The BovBox WL097PRO system supports connecting one Transmitter (TX) to up to four Receivers (RXs) simultaneously. This allows for broadcasting the same content to multiple displays. Please note that increasing the number of receivers may reduce the overall wireless transmission distance. Each new receiver must be paired with the transmitter initially.

More Receivers for Extensive Monitoring

1 TX to 4 RXs



Image: An illustration of one BovBox WL097PRO Transmitter broadcasting to multiple Receiver units, each connected to a display.

5.3. Audio Output

The Receiver (RX) unit is equipped with a 3.5mm audio output interface. This allows you to connect external audio devices such as soundbars or speakers directly to the receiver, providing separate audio routing from the video signal.

Enjoy the Home Audio Sound

Audio OutPut can connect with soundbar (soundbar need build in 3.5mm interface) that make you enjoy home audio sourround sound



Image: A setup showing the BovBox WL097PRO Receiver connected to a soundbar via its 3.5mm audio output for home audio sound.

Video: Demonstrates the wireless HDMI transmitter and receiver with audio output capabilities.

5.4. Power Options

Both the Transmitter and Receiver units offer flexible power options. They can be powered using the included 5V/2A USB-C power adapters, a compatible power bank, or NP-F series batteries (NP-F batteries are not included). A battery low light indicator is integrated to alert you when power is running low.



Image: Illustrates various power options for the BovBox WL097PRO, including USB-C power adapter, power bank, and NP-F battery compatibility.

5.5. Loop-out Function

The Transmitter (TX) unit features an HDMI loop-out port. This allows you to connect a local monitor directly to the TX unit, providing an extra screen for real-time monitoring of the content being transmitted wirelessly.

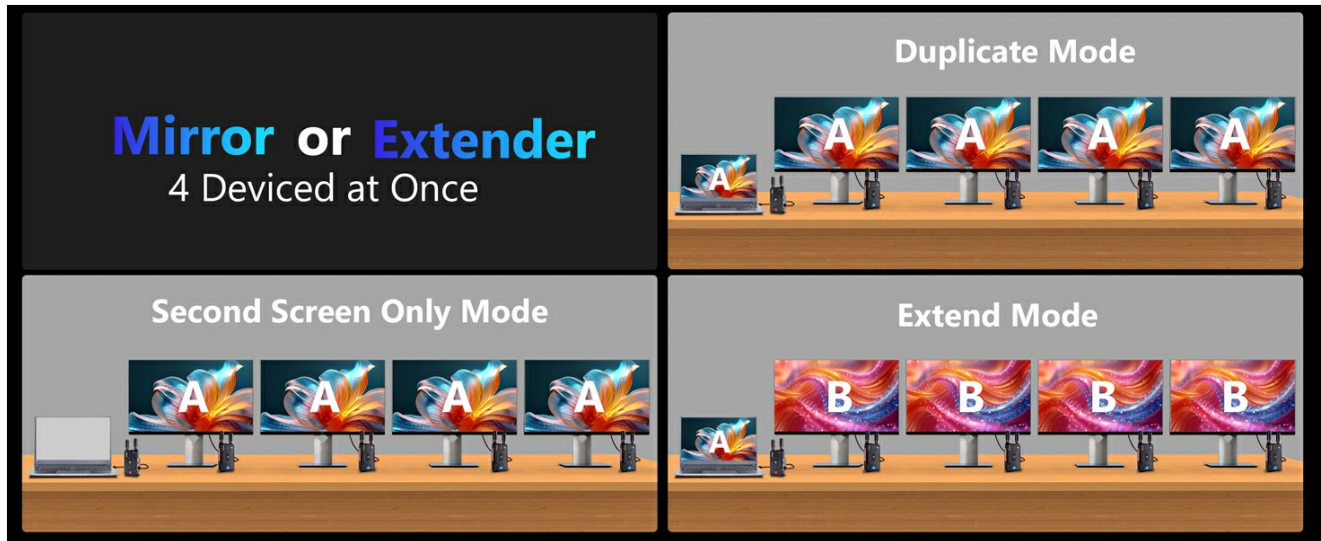


Image: Shows the BovBox WL097PRO Transmitter utilizing its local loop-out feature to provide an additional monitor for the source content.

6. IMPORTANT CONSIDERATIONS

6.1. 4K Transmission Requirements

For optimal 4K@30Hz video transmission, ensure the following:

- Your video input device (e.g., laptop, PC, camera) must support 4K resolution.
- Your video output device (e.g., TV, monitor, projector) must support 4K resolution.
- All HDMI cables used in the setup must be 4K compatible.

The BovBox WL097PRO natively supports 3840x2160 pixel 4K resolution. Please note that 4096x2160 pixel resolution is not supported.

4K UHD Quality Transmiission 5G/2.4G Dual Band

Other

Ours



Image: A side-by-side comparison demonstrating the superior clarity of 4K UHD transmission versus 1080P, highlighting the BovBox WL097PRO's capability.

6.2. HDCP Support

The system supports HDCP 1.4, ensuring compatibility with various protected content sources and streaming applications.



Image: Illustrates the BovBox WL097PRO's compatibility with HDCP 1.4, showing various streaming service logos.

7. TROUBLESHOOTING

If you encounter issues with your BovBox WL097PRO system, please refer to the following common troubleshooting steps:

- **No Signal:** Ensure all HDMI and power cables are securely connected to both the TX and RX units, and that both units are powered on. Verify that your source device is active and your display is set to the correct HDMI input.
- **Intermittent Signal/Poor Quality:** Check for obstructions between the TX and RX units. Ensure they are within the recommended transmission range (up to 820ft line-of-sight). Interference from other wireless devices (especially on 5GHz/2.4GHz bands) can also affect performance. Try repositioning the units or adjusting antenna angles.
- **No Audio:** If video is present but no audio, ensure your display's audio is not muted and volume is up. If using the 3.5mm audio output, verify the external audio device is correctly connected and powered.
- **Units Not Pairing:** Although auto-paired from the factory, if units fail to connect, try pressing the reset button on both the TX and RX units.

8. SPECIFICATIONS

Model Number	WL097PRO
Product Dimensions	6.9 x 3.5 x 8.1 inches
Item Weight	1.85 pounds
Connectivity Technology	HDMI
Power Source	Corded Electric (5V/2A USB-C), NP-F Batteries, Power Bank
Special Features	4K@30Hz 1080P@60Hz experience, 820ft long range transmission, 3.5mm AUDIO output interface, Plug & Play, Support up to 1 TX to 4 RXs

9. WARRANTY AND SUPPORT

For detailed warranty information, technical support, or service inquiries regarding your BovBox WL097PRO, please visit the official BovBox website or contact their customer service directly. Keep your purchase receipt for warranty claims.