

Binken 950

Binken Wireless HDMI Transmitter and Receiver 4K User Manual

Model: 950

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1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Binken Wireless HDMI Transmitter and Receiver 4K. This device is designed to wirelessly transmit 4K video and audio signals over long distances, offering a flexible solution for various applications including home entertainment, business meetings, and multimedia education. Please read this manual thoroughly before using the product to ensure proper and safe operation.



Image 1.1: The Binken Wireless HDMI Transmitter and Receiver 4K kit, showing both the transmitter and receiver units with their antennas and the product packaging.

2. SAFETY INFORMATION

To prevent damage and ensure safe operation, observe the following precautions:

- Do not expose the device to water, moisture, or extreme temperatures.
- Use only the provided power adapters. Using unauthorized adapters may damage the device and void the warranty.
- Do not attempt to disassemble or repair the device. Refer all servicing to qualified personnel.

- Ensure proper ventilation around the units to prevent overheating.
- Keep the device away from strong electromagnetic fields.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x Wireless HDMI Transmitter (TX)
- 1 x Wireless HDMI Receiver (RX)
- 2 x Power Adapters
- 2 x HDMI Cables
- 1 x IR Transmission Cable
- 1 x IR Receiving Cable
- 1 x User Manual

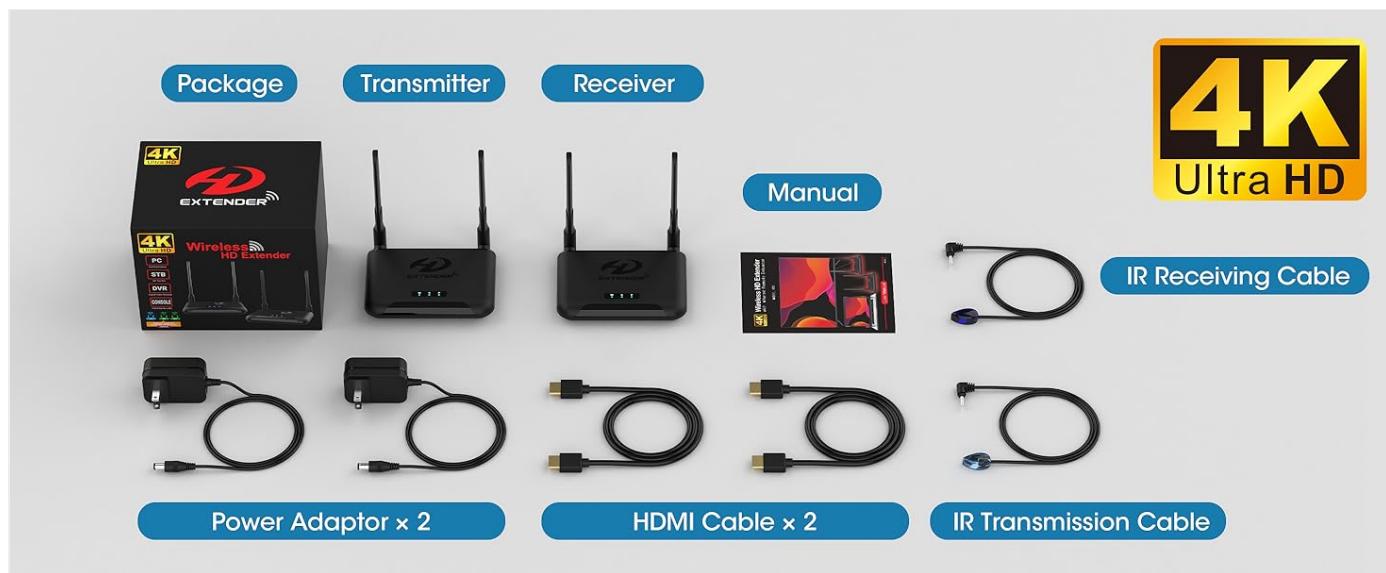


Image 3.1: Visual representation of the package contents, including the transmitter, receiver, power adapters, HDMI cables, IR cables, and user manual.

4. PRODUCT OVERVIEW

The Binken Wireless HDMI Extender kit consists of a Transmitter (TX) and a Receiver (RX) unit. Both units feature antennas for wireless signal transmission and reception, and various ports for connectivity.

4.1. Transmitter (TX) Unit

- **HDMI In:** Connects to your HDMI source device (e.g., laptop, PC, Blu-ray player).
- **HDMI Out (Local Loop Out):** Allows you to connect a local display to the transmitter, enabling two-screen output simultaneously.
- **IR Out:** Connects the IR Transmission Cable to control the source device remotely.
- **DC-In:** Power input port.
- **Reset Button:** For factory reset or re-pairing.

4.2. Receiver (RX) Unit

- **HDMI Out:** Connects to your HDMI display device (e.g., HDTV, projector, monitor).
- **IR In:** Connects the IR Receiving Cable to receive remote control signals.

- **DC-In:** Power input port.
- **Reset Button:** For factory reset or re-pairing.

HDMI Input Devices



PC/Laptop Camera/DV



DVD

STB

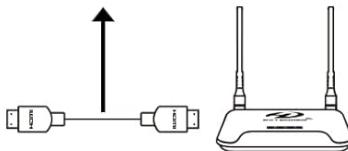
DVR

Requirements For 4K Transmission

HDMI cable
needs to support **4K**

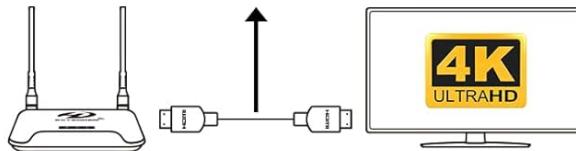


Video input devices
need to support **4K**



Transmitter
Our products **natively support 4K**

HDMI cable
needs to support **4K**



Video output devices
need to support **4K**



HDMI Output Devices



TV



Monitor



Projector

Image 4.1: Illustration of typical HDMI input devices (PC, laptop, camera, DVD, STB, DVR) connecting to the transmitter, and HDMI output devices (TV, monitor, projector) connecting to the receiver.

5. SETUP INSTRUCTIONS

The Binken Wireless HDMI Extender is designed for plug-and-play operation, requiring no software or Wi-Fi connection.

5.1. Basic Connection

1. Connect your HDMI source device (e.g., laptop, PC, cable box) to the **HDMI In** port of the Transmitter (TX) using an HDMI cable.
2. Connect your HDMI display device (e.g., HDTV, projector, monitor) to the **HDMI Out** port of the Receiver (RX) using an HDMI cable.
3. Connect the provided power adapters to the **DC-In** ports of both the Transmitter and Receiver, then plug them into power

outlets.

4. The devices will automatically pair and begin transmitting the signal. Ensure both your source and display devices are powered on.

5.2. Connecting to Two Screens (Local Loop Out)

The transmitter unit features an additional HDMI output for a local display.

1. Follow steps 1-3 from "5.1. Basic Connection".
2. Connect a second HDMI display (e.g., a monitor in the same room as the source) to the **HDMI Out (Local Loop Out)** port on the Transmitter (TX) using an HDMI cable.
3. This configuration allows you to view the content on both a local display and a wirelessly connected remote display simultaneously.



Image 5.1: Connection diagram for using the local loop out feature, allowing simultaneous display on a local monitor and a wirelessly connected TV.

5.3. IR Remote Extend Setup

The device supports infrared remote control extension, allowing you to control your source device from the location of the receiver.

1. Connect the **IR Transmission Cable** to the **IR Out** port on the Transmitter (TX). Position the IR emitter head directly over the IR sensor window of your source device (e.g., cable box, DVD player).
2. Connect the **IR Receiving Cable** to the **IR In** port on the Receiver (RX). Position the IR receiver head in a location where it can easily receive signals from your remote control.
3. When you point your remote control at the IR receiver connected to the RX unit, the signal will be transmitted wirelessly to the TX unit and then relayed to your source device via the IR emitter.

Note: The package does not include a remote control and does not support Bluetooth remotes. Ensure the IR Emitter is aimed precisely at the infrared signal window of the receiving device for optimal performance.



Image 5.2: Illustration of the Infrared Remote Extend feature, demonstrating how a user can control a source device in the living room from a bedroom using a remote control.

6. OPERATING INSTRUCTIONS

6.1. Powering On/Off

Once the power adapters are connected, both the Transmitter and Receiver units will power on automatically. There is no separate power button. Disconnect the power adapter to power off the units.

6.2. Channel Selection (9 Adjustable Wireless Channels)

The Binken Wireless HDMI Extender supports 9 different transmission channels. This allows for multiple sets of transmitters and receivers to operate in the same environment without interference.

- The devices will typically select an optimal channel automatically.
- If you experience interference or wish to change channels, refer to the specific channel adjustment procedure in the full manual (if available) or contact customer support.



Image 6.1: Illustration of how 9 adjustable wireless channels enable up to 4 sets of transmitters and receivers to operate simultaneously in the same environment.

6.3. Multi-TX to Multi-RX Configuration

One Transmitter (TX) unit can support connecting to 2-3 Receiver (RX) units simultaneously.

- To use this feature, ensure all RX units are powered on and within range of the TX unit.
- The TX unit will broadcast the signal to all paired RX units.



Image 6.2: Example of one transmitter broadcasting to multiple receivers, depicted in a church environment with several screens displaying the same content.

6.4. Requirements for 4K Transmission

To achieve 4K resolution transmission, ensure the following:

- Your video input device (source) must support 4K resolution.
- Your video output device (display) must support 4K resolution.
- All HDMI cables used must be rated to support 4K transmission.
- The Binken Wireless HDMI Extender natively supports 4K.

Image 6.3: Visual guide to the necessary components for successful 4K transmission, emphasizing that input devices, HDMI cables, and output devices must all support 4K.

7. KEY FEATURES

- **True 4K UHD Resolution:** Supports up to 4K@30Hz video resolution for clear and vibrant images.
- **Extended Wireless Range:** Transmits signals up to 820 feet (250 meters) using 5GHz transmission standard technology.
- **Low Latency:** Achieves ultra-low latency of approximately 0.01 seconds, suitable for gaming and real-time applications.
- **5GHz Band Transmission:** Utilizes the 5GHz frequency band for faster, clearer, and more stable transmission efficiency.
- **HDCP Support:** Compatible with various streaming applications such as Prime Video, Netflix, Hulu, YouTube, and more.
- **Infrared Remote Control Extension:** Allows remote control of source devices from the receiver's location.
- **Multi-Receiver Support:** One transmitter can connect to up to 3 receivers simultaneously.
- **9 Adjustable Wireless Channels:** Enables multiple sets of devices to operate in the same environment without interference.
- **Local Loop Out:** The transmitter can connect to a local monitor, providing dual display output.



Image 7.1: Visual representation of the 5G Band Transmission technology, emphasizing its speed, clarity, and stability.



Image 7.2: Demonstration of the product's low latency (approximately 0.01s), illustrated by a gaming scenario.

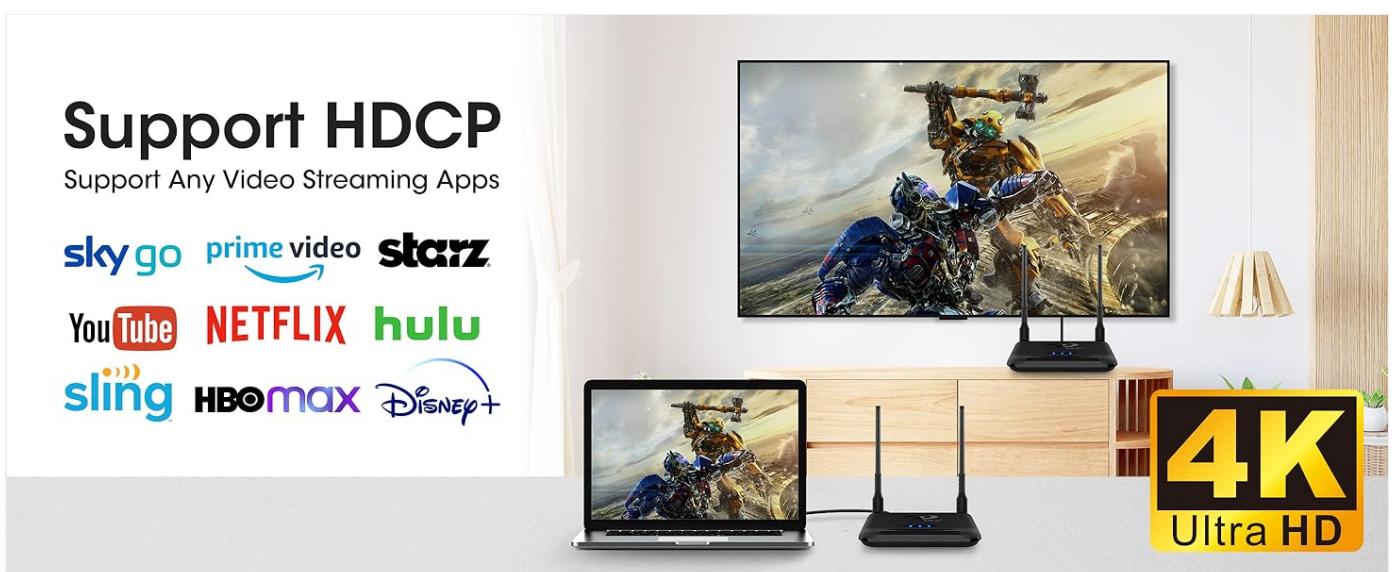


Image 7.3: Illustration of HDCP support, showing compatibility with popular streaming services like Sky Go, Prime Video, Netflix, and Hulu.



Image 7.4: Visual representation of the 820ft long-range wireless transmission, showing a laptop transmitting to a projector in a spacious conference room.

8. MAINTENANCE

To ensure the longevity and optimal performance of your Binken Wireless HDMI Extender, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the units. Do not use liquid cleaners or aerosols.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight.
- **Ventilation:** Ensure that the ventilation openings on the units are not blocked to prevent overheating.
- **Cable Management:** Avoid bending or crimping HDMI and power cables excessively to prevent damage.

9. TROUBLESHOOTING

If you encounter issues with your Binken Wireless HDMI Extender, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---|---|---|
| No signal on display | Loose cable connections, power issue, incorrect input selection on display, devices not paired. | Check all HDMI and power connections. Ensure both TX and RX are powered on. Select the correct HDMI input on your display. Press the reset button on both units to re-pair. |
| Poor video quality / Flickering screen | Interference, too far from receiver, non-4K compatible cables/devices, signal obstruction. | Reduce distance between TX and RX. Ensure line of sight. Check if HDMI cables and devices support 4K. Try changing wireless channels (if applicable). |
| IR remote control not working | IR emitter/receiver misaligned, IR signal interference, remote battery low. | Ensure IR emitter is directly over the source device's IR sensor. Ensure IR receiver has clear line of sight to your remote. Check remote batteries. |
| Audio but no video / Video but no audio | HDMI cable issue, HDCP compatibility issue, display settings. | Try a different HDMI cable. Ensure your display and source are HDCP compliant. Check audio/video settings on your display and source. |

10. SPECIFICATIONS

- **Model Number:** 950
- **Connectivity Technology:** HDMI
- **Video Resolution:** Up to 4K@30Hz
- **Wireless Transmission Standard:** 5GHz
- **Transmission Distance:** Up to 820ft (250m)
- **Latency:** Approximately 0.01s
- **IR Remote Control Support:** 30KHz/38KHz/47KHz/56KHz infrared signal
- **Wireless Channels:** 9 Adjustable
- **Max Receivers per Transmitter:** 3
- **Compatible Devices:** Laptops, PCs, Blu-ray players, HD digital video cameras, DVDs, DSLRs, set-top boxes, cable/satellite boxes, Projectors, PS4, PS5, Televisions
- **Total HDMI Ports:** 1 (on TX for input), 1 (on TX for loop out), 1 (on RX for output)
- **Audio Output Mode:** Stereo
- **Surround Sound Channel Configuration:** 2.0
- **Video Encoding:** WMV
- **Item Weight:** 1.61 pounds
- **Package Dimensions:** 6.69 x 5.04 x 4.57 inches

11. WARRANTY & SUPPORT

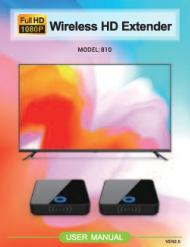
Binken provides a **365-day warranty** for this product, covering manufacturing defects and malfunctions under normal use. This warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or natural disasters.

For technical assistance, troubleshooting, or warranty claims, please contact Binken customer service. Our professional customer service staff are available to respond within 24 hours.

Contact Information: Please refer to the contact details provided on the product packaging or the official Binken website for the most up-to-date support information.

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Related Documents

| | |
|---|---|
|  | <p>Binken Wireless HD Extender Model 810 User Manual</p> <p>User manual for the Binken Wireless HD Extender Model 810, detailing installation, connection guides for computers and STBs, panel descriptions, and important usage notes for optimal performance.</p> |
|---|---|

no relevant documents