



## **1x4 1080p HDMI Wireless KVM Extender - 150m**



G4-0166A

P/N:  
WLHDKV-150 (Kit)  
WLHDKV-150RX (Receiver)

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## Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Please pay close attention to all warnings and hints for this device.
- Do not expose this unit to rain, heavy moisture, or liquid.
- Do not put any items into the device or attempt to modify its operation.
- Do not repair the device or open the enclosure without professional guidance to avoid electric shocks. Doing so may void your warranty.
- Keep the product in a well-ventilated location to avoid damage from overheating.
- Shut off power and make sure environment is safe before installation.
- Do not plug the HDMI cables and IR cables in/out when the device is in use to avoid cable damage. Make sure they are plugged into the correct ports.
- Use the included power adapters only. Make sure the specification matches if using 3rd-party DC power adapters.

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## 1. Introduction

The 1x4 1080p Wireless HDMI KVM Extender - 150m extends HDMI signals from a source device to a display device with KVM (2 USB ports) extension wirelessly up to 492ft (150m).

It requires no cables between the Transmitter (TX) and Receiver (RX), making the installation easy and clean. Great for homes and offices.

**Note:** Wireless transmission distance will vary due to the environmental conditions. Thick walls, brick, glass, electronic interference, and wireless signals from other devices will shorten the wireless transmission distance or cause signal loss.

## 2. Features

- Transmits 1080p HDMI signals wirelessly up to 492ft (150m) with IR control, keyboard, mouse.
- Supports up to four receivers (RX). Additional receivers (part# WLHDKV-150RX) are sold separately\*
- Supports up to 1080p @60Hz
- Dual antenna design maximizes wireless reception with stable data transmission
- Operates in a 5GHz wireless spectrum
- Equipped with HDMI loopout and one-way IR extension (20-60 KHz frequency)
- Less than 150ms latency. Not recommended for real-time applications

**\*Note:** a) Wireless transmission range is reduced with each added receiver. See details on page 11. b) Each added receiver requires pairing. See Pairing the TX and RX on page 8 for more details.

### 3. Package Contents

#### **Kit (WLHDKV-150)**

- 1x4 1080p HDMI Wireless KVM Extender (TX & RX)
- HDMI male to male cable x 2
- Micro USB cable x 1
- USB-A to USB-C power cable x 2
- IR blaster cable
- Power 5V/2A x 2
- User Manual

#### **Receiver (WLHDKV-150RX)**

- 1080p HDMI Wireless KVM Extender - Receiver
- HDMI male to male cable x 1
- USB-A to USB-C power cable x 1
- Power 5V/2A x 1
- User Manual

### 4. Installation Requirements

1. HDMI source device (DVD player, set top box, PC, etc.)
2. HDMI display device (SD or HD TV/Monitor, projector, etc.)
3. HDMI cables
4. USB keyboard and USB mouse for KVM control (optional)

## 5. Product Layout



Figure 1: Transmitter & Receiver Top LED

- 1. LED indicator:** The detailed status of the LED is outlined in the table below

### 5.1 For Transmitter Top LED indicator

<b>Static Red</b>	Transmitter is booting on	<b>Static Blue</b>	Connected and start to present
<b>Flashing Red</b>	Searching for receiver	<b>Flashing Purple</b>	No video input
<b>Flashing Blue</b>	Waiting for connection		

### 5.2 For Receiver Top LED indicator

<b>Flashing Blue</b>	Waiting for connection	<b>Static Blue</b>	Connected and start to present
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### 5.3 Transmitter Connectors Layout

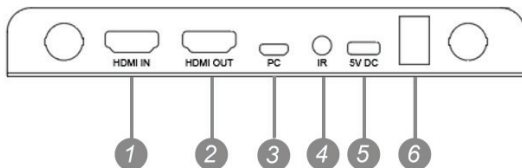


Figure 2: Transmitter Connectors

1. **HDMI In:** Connect with the video source
2. **HDMI Loopout:** Connect with display for pass through
3. **Micro USB:** Connect with USB of video source for KVM function
4. **IR Jack:** Connect with IR blaster cable of video source for IR extended function
5. **USB-C:** Connect with 5V/2A power adapter
6. **Power Switch:** Turn on/off the product

## 5.4 Receiver Connectors layout

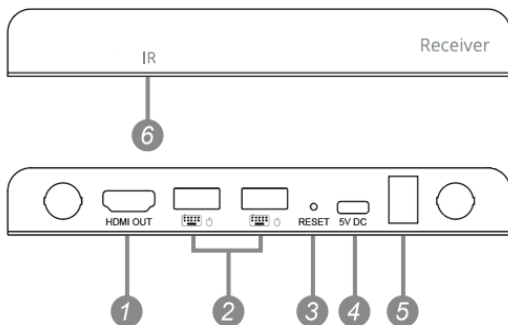


Figure 3: Receiver Connectors

1. **HDMI Out:** Connect to the display
2. **USB-A:** Connect with Mouse/Keyboard for USB KVM function, you can also connect with touch panel USB port for touch panel back control
3. **Reset:** Reset to factory setting
4. **USB-C:** Connect with 5V/2A power adapter
5. **Power Switch:** Turn on/off the product
6. **IR Sensor:** IR extended function

## 6. Product Pairing

### 6.1 Pairing a transmitter and receiver

A standard wireless HDMI extender kit includes one transmitter and one receiver, which are pre-paired before shipment. Under normal circumstances, no additional pairing is required. However, if you encounter persistent connection issues, purchase an additional transmitter, or need to pair with a different receiver, the devices must be paired before use.

### 6.2 Check if the Transmitter and Receiver are Paired

To check if the transmitter and receiver are paired, observe the LED indicator on the transmitter. If the transmitter's LED remains flash red above one minute, it indicates that the transmitter and receiver are not paired.

### 6.3 Pairing instructions

1. Power on the transmitter.
2. Power on the receiver till it's on the main menu.
3. Press the receiver's reset button and hold for 5 seconds till the LED is flashing fast.
4. Wait around 30 seconds, the transmitter and receiver will paired automatically.



## 7. Hardware Installation

1. Power off all devices including your HDMI source and HDMI display(s).
2. Connect your HDMI source device to the Transmitter's HDMI Input connector with an HDMI cable.
3. Optional: Connect your local HDMI TV or display to the Transmitter's Local HDMI Output connector with an HDMI cable. This connection allows you to monitor the HDMI signal from the source device location.
4. Optional: Connect the IR Blaster extension cable to the Transmitter's IR interface port. Face the eye towards your HDMI source device's IR sensor. This connection is needed only if you need to control your HDMI source from the remote location.
5. Connect your HDMI display to the Receiver's HDMI Output connector with an HDMI cable.
6. Plug your keyboard and mouse into the USB-A ports of the Receiver (RX) unit.
7. Plug the included power adapters into the Transmitter's and Receiver's USB power Jacks, then plug both power adapters into reliable power outlets and then to power on the Transmitter and Receiver.
8. Power on your HDMI source device and HDMI display(s). The wireless KVM extender is ready for use.

**Note:**

For optimal signal range, install in a clear environment with few obstacles. Wireless signals from other devices, such as microwaves, wireless mice and keyboards, etc. may interfere with transmission. Contact our technical support team if you have specific questions.

## 8. Application Diagram

### 8.1 One to One Connection

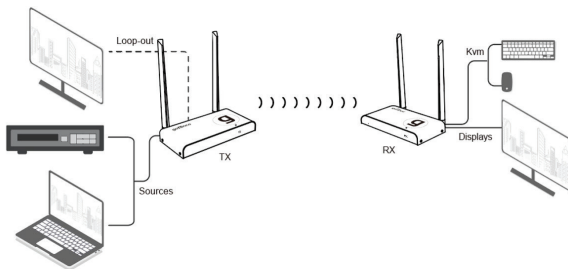


Figure 4: One TX to One RX diagram

### 8.2 One to Many Connection (up to 4 RXs)

Support up to four Receiver (RX). Additional Receivers part# WLHDKV-150RX, sold separately.

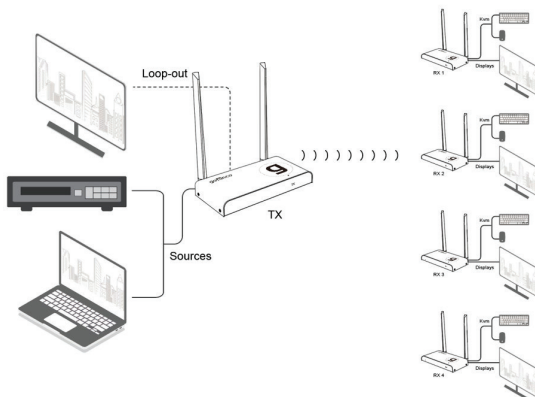


Figure 5: One TX to Four RX diagram

Normally, if you buy a new receiver, after power on the receiver, the transmitter will recognize and stream the video to the second receiver automatically.

If the transmitter and new receiver are not paired automatically, please pair the TX and RX firstly, please check “Product Pairing” process.

**Note:** Wireless transmission range is reduced with each added receiver.

#### Wireless Transmission Distance:

- 1 TX to 1 RX up to 150m
- 1 TX to 2 RX up to 50m
- 1 TX to 3 RX up to 30m
- 1 TX to 4 RX up to 20m

## 8.3 Connecting Infrared Return

The IR cable receives the commands sent by the IR receiver and forward it to your connected HDMI sources.

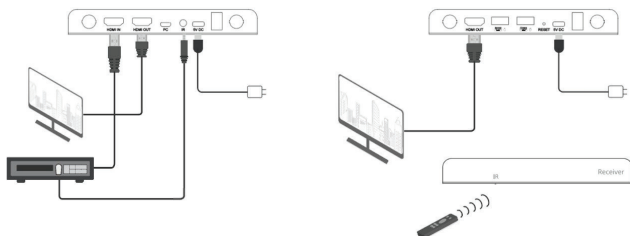


Figure 6: IR application diagram

## 8.4 IR Blaster Cable Pin Out

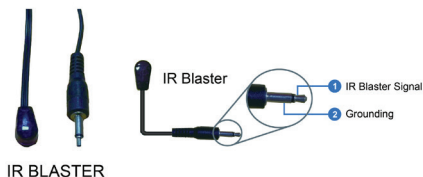


Figure 7: IR Blaster Pin Out

## 8.5 Connecting The USB Extension

In addition to an infrared return feature, the wireless HDMI extender also features a built-in USB extension function. This helps you to continue to operate connected HDMI sources, such as a Media Center PC or laptop, from another room, using a mouse and/or keyboard.

1. Using the included Micro USB cable, connect your PC or laptop to the Micro USB socket marked "USB" on the transmitter.
2. Connect your mouse and/or keyboard to the connectors marked "USB" on the receiver.

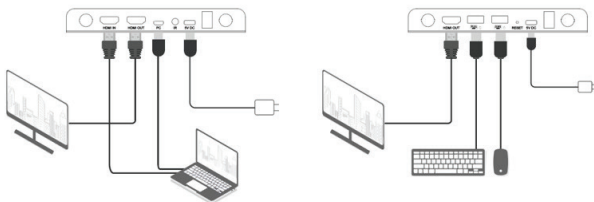


Figure 8: USB Extension diagram

Once you have connected the Micro USB cable and your mouse/keyboard according to the above description, it is recommended to test the feature first.

Take your mouse/keyboard and use one of the functions. The receiver will now send this function to the transmitter. The transmitter will now forward this function to the Media Center PC or laptop.

The Media Center PC or laptop should now execute the function of your mouse/keyboard.

## 9. Notice

- Wireless signals transmitted through walls, glass, brick or other solid objects will cause signal loss and decrease the transmission distance
- External wireless signals from microwaves, wireless mice and wireless keyboards will interfere with HDMI signal transmission
- Keep the unit in a well ventilated environment to prevent it from overheating
- DO NOT expose the unit to rain, moisture, or liquids
- DO NOT place anything on the unit
- DO NOT open the housing, doing so will void the warranty and may cause personal injury due to electronic hazard

## 10. FAQ & Troubleshooting

### **Q: No (or poor) image and sound on TV or projector**

A: Move the Transmitter and the Receiver in the same room to test if the connection works well, and please make sure all of below setting are correct.

- 1) Ensure that the power of the transmitter and receiver is properly connected. Ensure that all HDMI cables are connected properly or replace them.
- 2) Ensure that the HDMI source is turned ON and the correct HDMI input is selected on the TV.
- 3) Ensure that the HDMI source is set to a correct video resolution. If necessary, consult the user manual of your HDMI source.
- 4) Disconnect the power adapters from the wall socket and reconnect them to reboot the Wireless HDMI extender.

If the transmitter and receiver still no connection, please follow the below step for pairing.

- 1) Power on the transmitter.
- 2) Power on the receiver till it's on the main screen.
- 3) Press the receiver's reset button and hold for 5 seconds till the LED is flashing fast.
- 4) Wait around 30 seconds, the transmitter and receiver will be paired automatically.

### **Q: I do have picture, but no (or bad) sound**

A: This product supports up to 2CH PCM stereo.

Check the audio setting in the settings menu of the connected HDMI source and manually set it to 2CH PCM stereo when the automatic setting does not work.

**Q: No or bad connection between the Transmitter and Receiver**

- A: 1) Move the Transmitter and/or the Receiver from the immediate vicinity of the connected HDMI sources and Wi-Fi equipment. These may affect the range.
- 2) Slightly adjusting the position of the Transmitter and or Receiver may already help out.
- 3) Too much distance or obstacle between Transmitter and Receiver. Try using shorter distances.
- 4) Disconnect the power adapters from the wall socket and reconnect them to reboot the wireless HDMI extender.

**Q: The IR blaster doesn't work**

- A: 1) Make sure to use the original remote control of the video source.
- 2) Please stick the IR blaster probe in the surface of IR sensor of the source device, if you are not sure the correct position of IR sensor of source device.
- 3) Please refer to the manual of source device.
- 4) Please point the remote control to the IR receiver probe with 5 meters directly.
- 5) The IR extender cable based on 20KHz-60KHz remote signal protocol, which support most of the IR remote in the market, for special standard or old remote may not supported.

**Q: Transmitter LED Indicator Stays Constant Red**

- A If the transmitter's LED indicator remains constant red for more than 30 seconds, it indicates that the device did not boot up successfully.

### **Possible Cause:**

While the transmitter's HDMI IN port supports power delivery the video source's HDMI port may not provide sufficient power. Insufficient power can prevent the transmitter from booting up properly.

### **Solution:**

To ensure stable operation, always connect the USB power supply to the transmitter, even if the HDMI IN port is in use.

### **Q: The Transmitter's LED indicator is flashing red continuously**

- A: Please follow below steps to troubleshoot the issue:  
Place the transmitter and receiver close to each other.  
Make sure you power the transmitter separately via USB-C cable with sufficient 5V/2A power supply.  
Verify that the Receiver is powered on and displaying the main interface.

If the Receiver is on and the transmitter indicator has been flashing red for more than three minutes, it indicates that the devices are not paired. Please refer to section, "Pairing a Transmitter and Receiver," in the manual to re-establish pairing.

### **Q: The transmitter's LED indicator is flashing purple continuously**

If the transmitter's LED indicator is flashing purple, it indicates that the transmitter and receiver are successfully paired, but the transmitter is not detecting a video source from the HDMI input.

### **This issue may occur due to:**

Incompatible resolution settings between the video source and the transmitter.

A faulty HDMI port on the video source device.



**Please follow below steps to resolve:**

Adjust the video source's output resolution to match the supported resolutions listed in the transmitter's specifications.

If the issue persists, test the transmitter with a different video source.

## 11. Specifications

HDMI Signal	HDMI 1.4 and HDCP 1.3 compatible
Resolution	480p@60Hz, 576p@50Hz, 720p@50/60Hz, 1080i@24/50/60Hz, 1080p@24/50/60Hz
Latency	Below 150ms latency
IR Remote Control	Supports 20-60KHz wide frequency remote control
Audio Format	PCM
Audio Channel	2 channels
USB KVM	Support Mouse/Keyboard/Touch panel back control
Wireless standard	IEEE 802.11 a/b/g/n/ac 5.8G
WiFi Frequency	5.150 GHz to 5.825 GHz
WiFi Bandwidth	866 Mbps (5GHz)

Frequency Bands	5150-5350 MHz, 5470-5725 MHz, 5725-5850 MHz, 5850-5925 MHz The specific frequency bands utilized are upon the legal regulations by each country
Bitrate	Maximum 50Mbps (actual rate may vary depending on environmental factors)
Channel width	Supports 20 MHz, 40 MHz and 80 MHz
RF Power Amplifier	Maximum 17 dBm
Distance	Up to 150 meters in the clear line of sight The distance will be shorter in obstructed environments
Antenna	2x 5dBi high-sensitive antenna
I/O ports	<b>Transmitter:</b> 1x HDMI input 1x HDMI loopout 1x USB-C power input 1x Micro USB for PC USB source 1x 3.5mm IR jack 1x Power switch  <b>Receiver:</b> 1x HDMI output 1x USB-C power input 2x USB-A for Keyboard / Mouse 1x Power switch 1x Reset button
Power supply	DC 5V/2A
Power Consumption	About 5W
Dimension	6.06" (W) x 0.79" (H) x 3.04" (D)

Weight	0.72 lbs (TX) ; 0.73 lbs (RX)
Operating Temperature	- 4 to 104 degree F
Storage Temperature	- 4 to 140 degree F
Operating Humidity	10% to 80% relative humidity
Storage Humidity	5% to 90% relative humidity
Housing Material	Metal & Plastic
Color	Black
Warranty	1 year
Country Of Origin	Made In China

## 12. Disclaimer

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