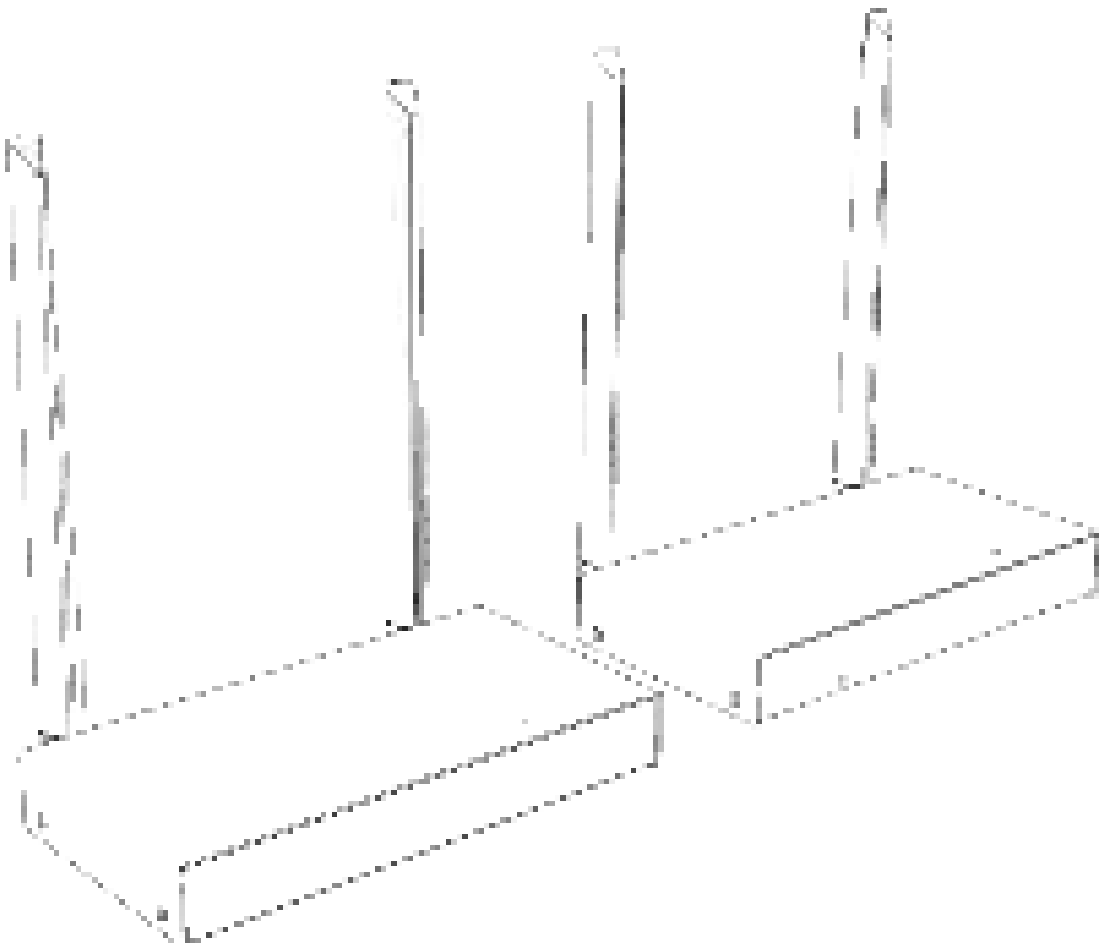
4K WIRELESS HDMI EXTENDER



Rev. 1.1

Revision	History	Date
V1.0	Initial Release	2022/4/15
V1.1	Add multicast Function	2022/7/23
V1.2	Add FCC Warning	2022/8/30

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1. Safety Instructions

- Please read these instructions thoroughly before you use the device and keep them for future reference.
- Only for indoor use.
- Do not use the product in a damp environment or near water.
- Do not expose the product to extremely high or low temperatures, strong light sources or direct sunlight.
- This product is not a toy. Keep out of reach of children.
- Connect the adapter to the mains only after you have verified that the line voltage corresponds to the value specified on the type plates.
- Never connect a power adapter if it's damaged. In such cases, please contact your supplier.
- Disconnect the AC/DC power adapter from the mains when this device is not in use for prolonged time.
- Never open the product: the device may contain parts with deadly voltage. Repairs or service should only be performed by qualified personnel.
- Improper use, self-installed modifications or repairs will void any and all warranties.
- We does not accept any product responsibility for incorrect use of the product or use other than for which the product is intended.
- We does not accept liability for any consequential damage other than the legal product responsibility.

2. Introduction

Congratulations on your purchase of the 4K wireless HDMI extender device, which is embedded with our latest vPlay Seamless Technology, supports 4K60 resolution, super smooth playback with low latency.

You can now watch TV in your bedroom, study or any other room without messy cables. You can wirelessly send the HD video signal from an HDMI source (for example, your set-top box) to a second TV or projector in another room and continue to operate those remotely by using our wireless HDMI devices.

Support wireless HD transmitter with multiple receivers without latency. You can wireless stream the video content from one transmitter to multiple receivers simultaneously, excellent for applications like education or digital signage.

3. Main Features

- Private vPlay Seamless Technology ensures super smooth video playback.
- Supports 4K60 high definition resolution.
- As low as 100ms latency.
- Supports 20-60KHz IR extended function.
- Supports USB KVM function.
- Touch panel back control function.
- Transmission distance up to 150 meters in the clear line of sight.
- Auto Channel Selection.
- Equipped with the fast 802.11ac 2T2R WiFi MIMO module.
- High-security protection.
- Supports one transmitter to multiple receivers.

4. Package Included

- Transmitter x 1
- Receiver x 1
- 5V2A Power adapter x 2
- Type C cable x 2
- Micro USB cable x 1
- IR transmitter cable x 1
- HDMI cable x 2

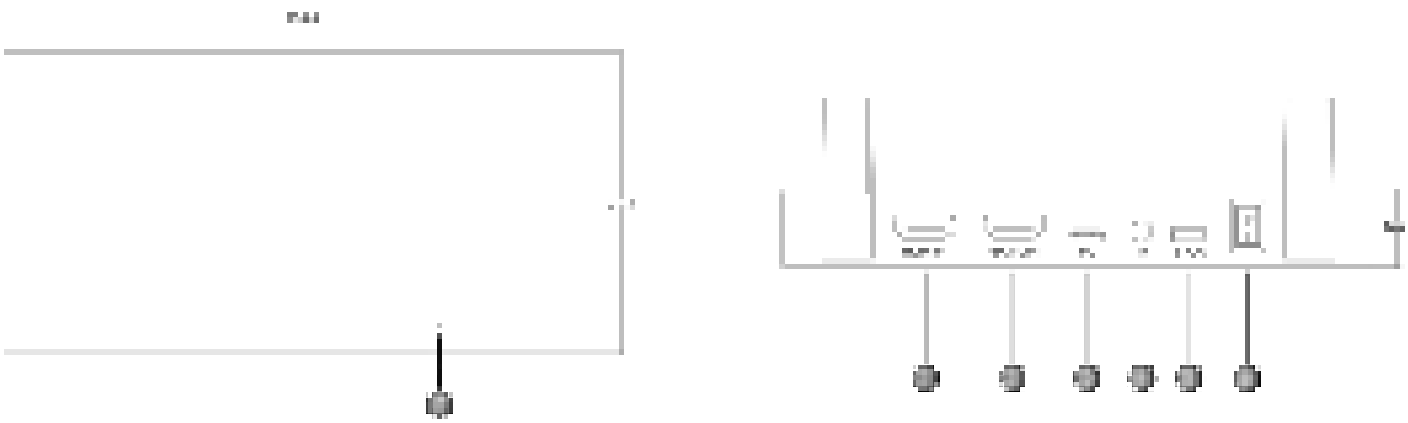
5. Product Specification

Video Resolution	4K60; 4K30; 4K24; 1080P60/50/30/24 720P/60/50/30 480P
Audio	Stereo, 44.1KHz
Wireless standard	IEEE 802.11a/n/ac, 5GHz, 2T2R
Latency	About 100ms latency
HDMI Version	HDMI 2.0 with HDCP2.1
Platform supported	Any devices that support HDMI Port
Distance	About 150 meters in the clear line of sight
Transmitter	
Interface:	HDMI out x1; HDMI in x 1; Micro USB x 1; 3.5mm jack x1; Type c x1
LED	Red/Blue LED x 1
Switch Button	x 1
Power supply	DC5V/2A
Power Consumption	About 7 W
Dimension	154*77.5*21mm
Weight	330g
Receiver	

Interface	HDMI out x1; USB x 2; Type C x1
LED	Blue LED x 1
Power supply	DC5V/2A
Power Consumption	About 5W
Dimension	154*77.5*21mm
Weight	330g
Temperature and Humidity	
Operating:	0°C to +40°C (+32°F to +104°F)
Storage:	-10°C to +60°C (+14°F to +140°F)
Operating:	10% to 80% relative humidity

6. Product Overview

6.1 Transmitter overview



1.HDMI in: Connect with the video source.

2.HDMI out: Connect with display for Pass-through.

3.Micro USB: Connect with USB of video source for KVM function.

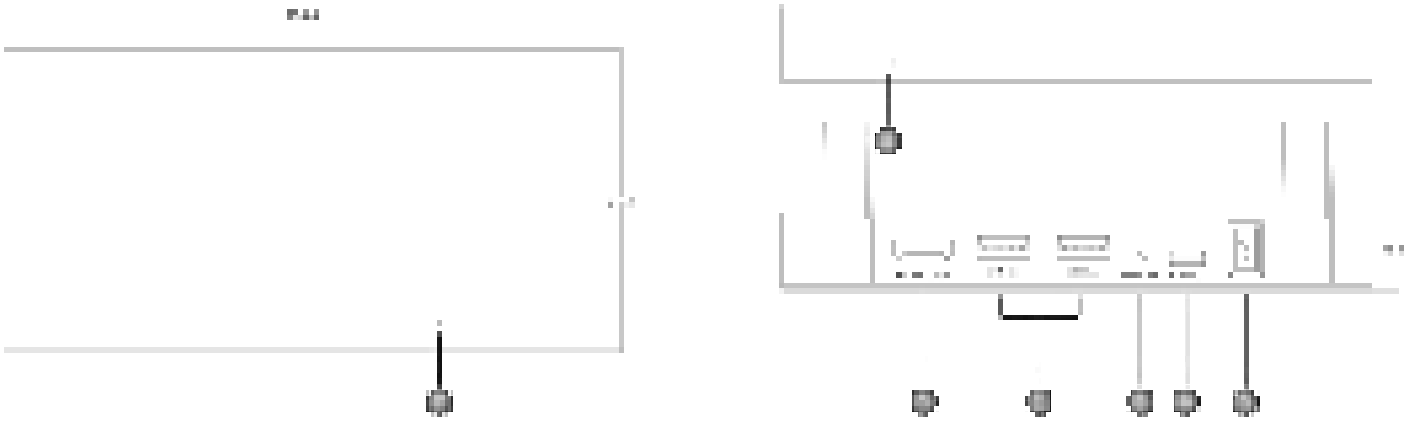
4.IR Port: Connect with IR probe of video source for IR extended function.

5.Type C : Connect with 5V/2A power adapter

6.Switch: Turn on/off the product.

7.LED indicator

6.2 Receiver overview



1.HDMI out: Connect with display.

2.USB: Connect with mouse and keyboard for USB KVM function, you can also connect with touch panel USB port for touch panel back control.

3.Reset: Reset to factory.

4.Type C : Connect with 5V/2A power adapter

5.Switch: Turn on/off the product.

6.IR Window: IR extended function.

7. LED indicator

7. Pairing a transmitter and receiver

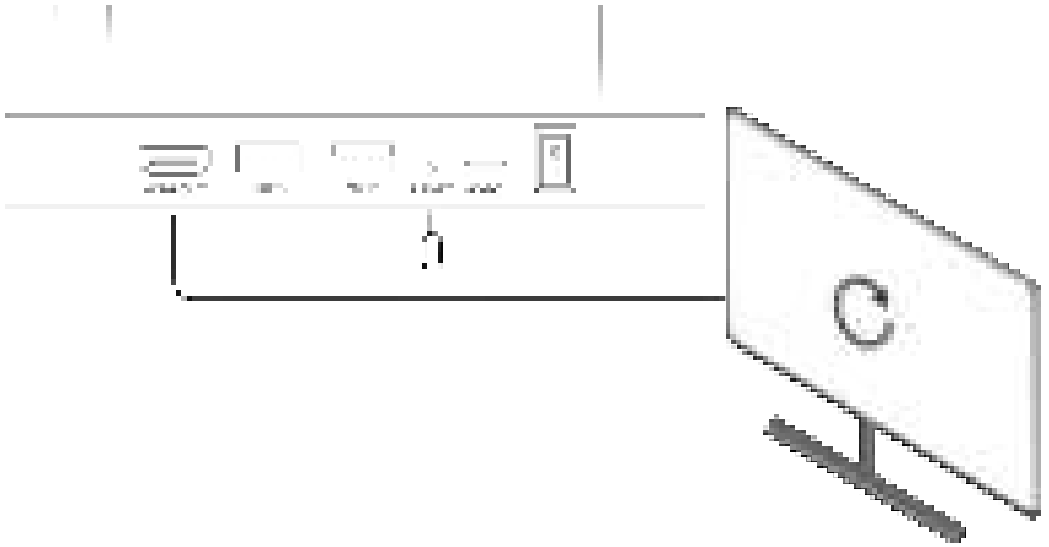
A standard wireless HDMI extender kit includes one transmitter and one receiver, which are paired before shipment. Normally you don’t need to pair them again. However, if you buy additional receiver, you need to follow the instruction below to pair the new receiver with the transmitter.

1) Power on the transmitter.

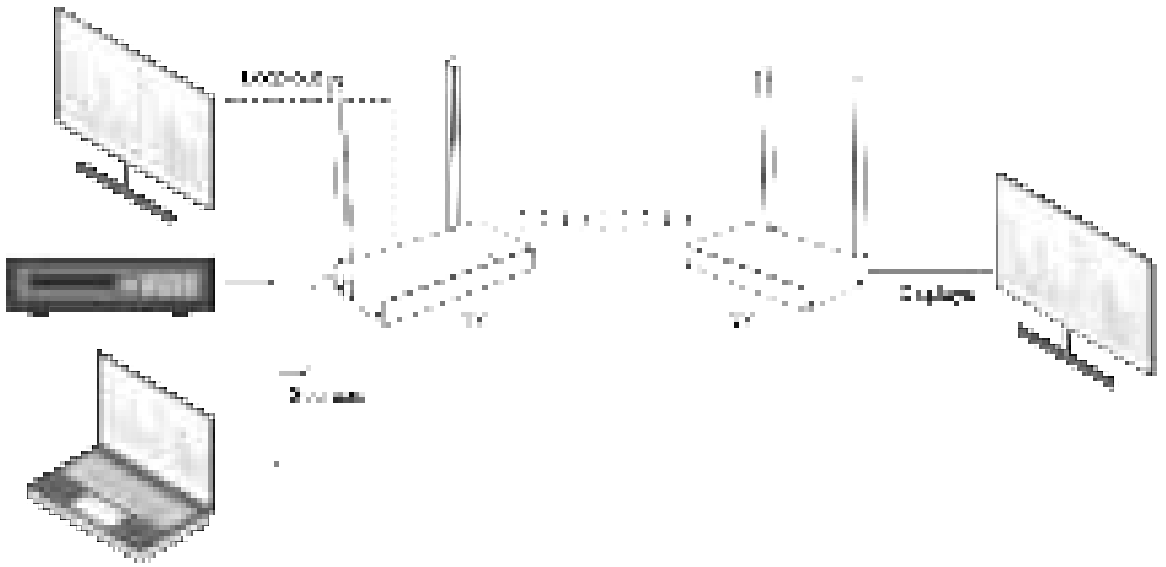
2) Power on the receiver till it's on the main menu.

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.



8. Installation Guide



8.1 Connecting the transmitter

The transmitter sends the HD video signal wirelessly to the receiver in another room . Therefore, place the transmitter near your HDMI source (for example: set top box, Blu-ray player, Media Player, Media Center PC/laptop).

1) Connect the power adapter to the connector marked "5V" and insert the plug into the wall socket.
2) Use an HDMI cable to connect the HDMI source to the HDMI port marked “HDMI IN” on the TX.
3) Optional: To continue watching TV in this room as well, use an HDMI cable (not supplied) to connect a TV to the HDMI port marked "HDMI OUT".

LED indicator of TX	Description
Red:	TX system is booting on
Blue:	Connected
Purple:	No Video in

8.2 Connecting the HD receiver

1) Connect the power adapter to the connector marked "5V" and insert the plug into the wall socket
2) Place the receiver in the room (bedroom, study or other room) where you want to connect the second TV or projector.

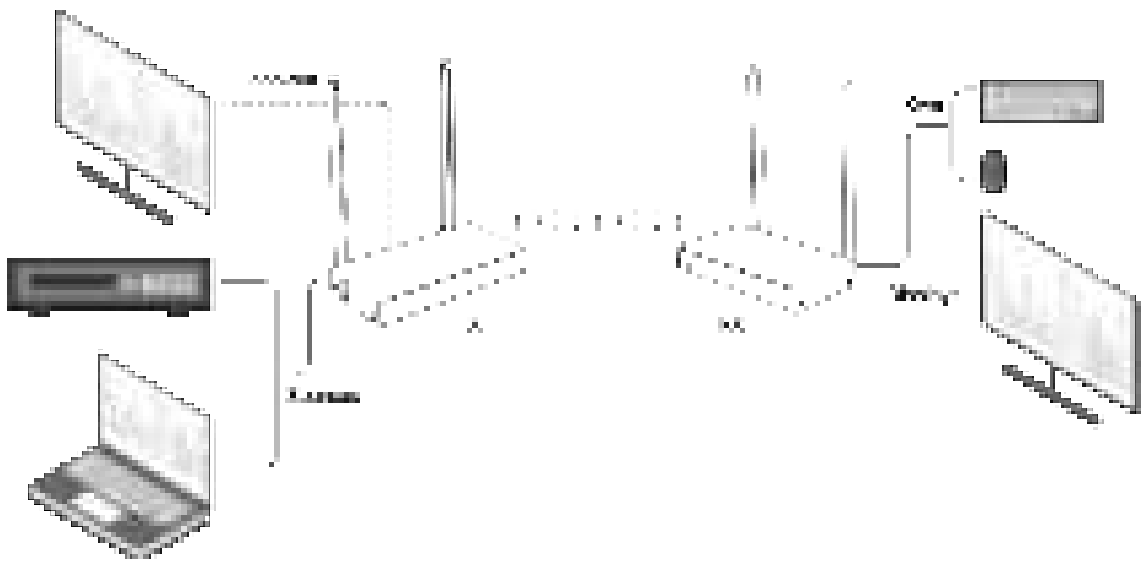
3) Use an HDMI cable to connect your TV or projector to the HDMI port marked "HDMI OUT" on the HD receiver.

LED indicator of RX	Description
Flashing blue:	Waiting for connection
Static blue:	Connected

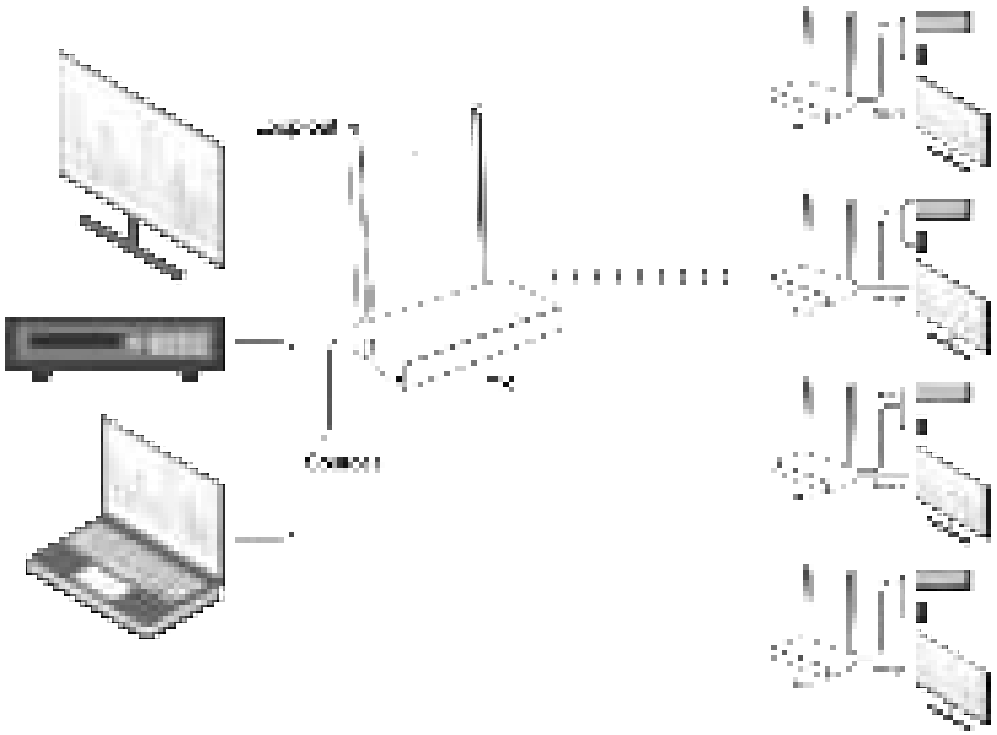
8.3 Two streaming modes

8.3.1 One TX to one RX mode

Normally, when you connect TX and RX by following above step, the TX and RX will connect automatically.



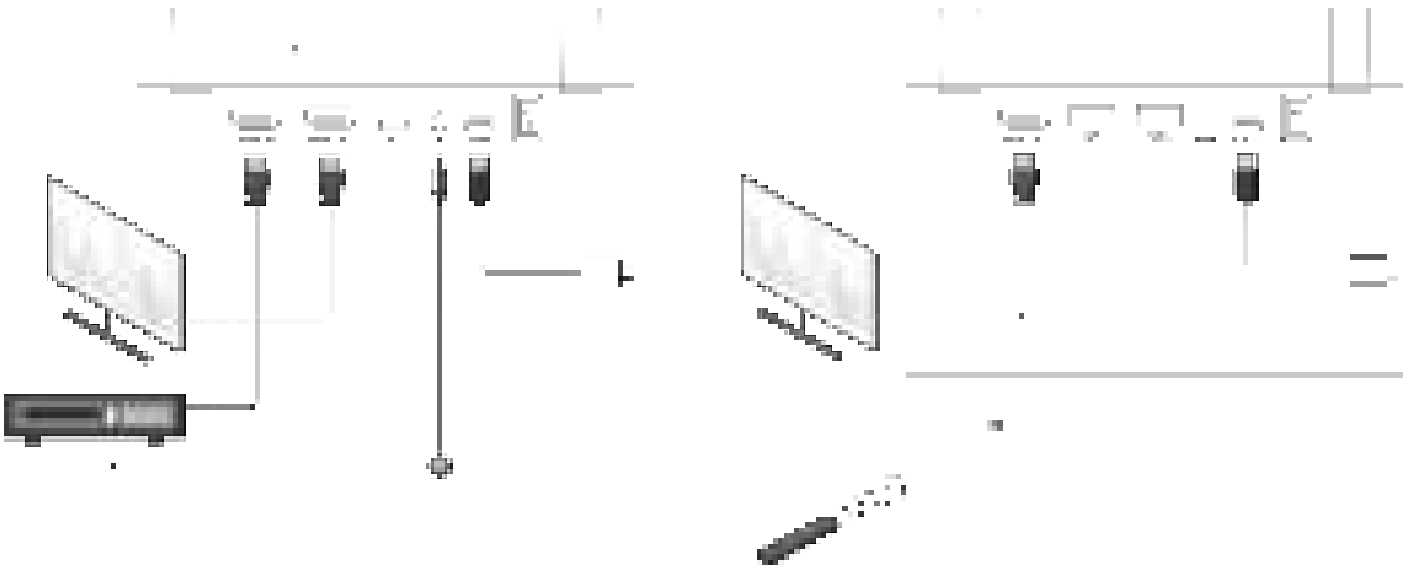
8.3.2 One TX to multiple RX mode



The 4K Wireless HDMI extender also supports multicast function, which means video transmission from one transmitter is streamed to a group of receivers simultaneously. One transmitter can support up to 4 receivers.
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 “Pairing a transmitter and receiver” process.

8.4 Connecting infrared return



The 4K wireless HDMI extender has a Built in “infrared return" that enabl es continued operation of the connected HDMI sources from another room. For example,operate your HDMI source downstairs from your bedroom (location of second TV)

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

Connect the IR cable (2) to the HD transmitter's connector marked “IR".
Make sure that the led of the IR cable is attached exactly over the HDMI source's infrared sensor (with some equipment,this needs to be done very precisely). The exact position can be found easily by shining a torch on the front panel, searching for the IR sensor window.
Please experiment with correct placement before final attachment of the IR led . Pleas e note!

The adhesive strip may cause discoloration on certain surfaces, or leave adhesive resi dues after removal.

8.5 Testing the IR return function

Once you have connected the IR cable according to the above description, it is recommended to test the function first.

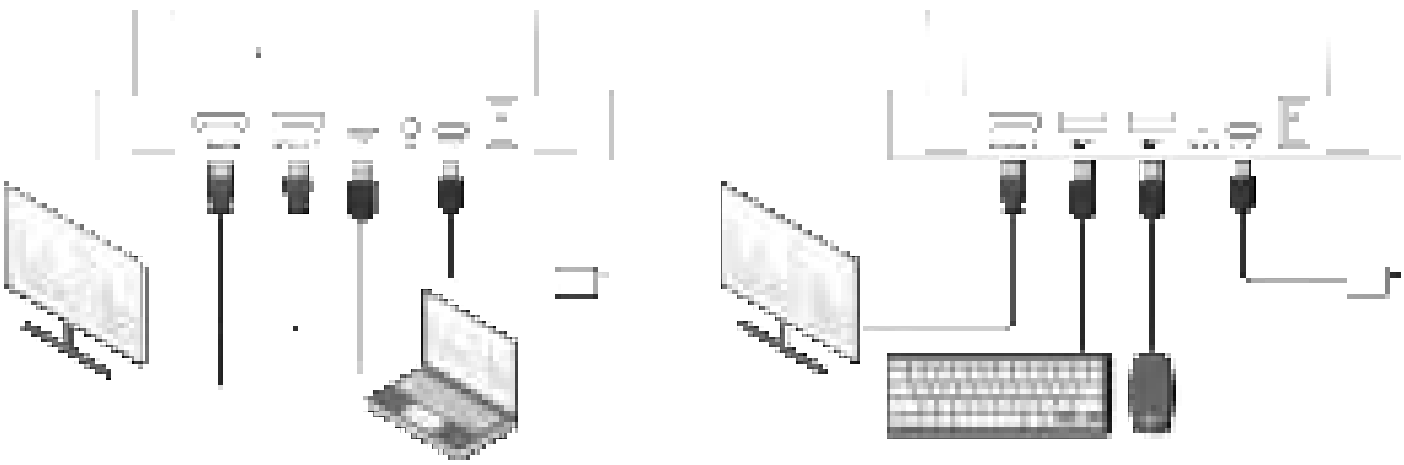
Aim your remote control towards the IR On the front side of receiver and send a command.

The IR Receiver will now send this command to the transmitter through the receiver.

The transmitter will forward this command to the IR on the transmitter. The IR then forwards the command to the HDMI source.

The HDMI source should now execute the function associated with the comma nd sent by your remote control.

8.6 Connecting the USB extension



In addition to an infrared return feature, the 4K 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) **To the HD transmitter**

Using the included Micro USB cable,
connect your PC or laptop to the Micro USB socket marked “USB”
on the HD transmitter.

2) **To the HD receiver**

Connect your mouse and/or keyboard to the connectors marked “USB”
on the HD receiver.

8.7 Testing the USB extension function

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 HD receiver will now send this function to the HD transmitter. T
he HD 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.

Frequently asked questions (FAQs)

Q1. No (or poor) image and sound on TV or projector

Move the HD transmitter and the HD 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. En sure 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 4K 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.

Q2. No or bad connection between the HD transmitter and HD receiver

1) Move the HD transmitter and/or the HD 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 HD transmitter and/or HD receiver may already help out.
3) Too much distance or obstacle between HD transmitter and HD receiver. Try using shorter distances.
4) Disconnect the power adapters from the wall socket and reconnect them to reb oot the 4K wireless HDMI extender.

Q3. I do have picture, but no (or bad) sound

The Wireless HD supports up to 2CH PCM stereo.

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

Q4. The IR blaster doesn’t work

1) Make sure to use the original remote control of the video source.
2) Please stick the IR emiter probe in the surface of IR window of the source device, if you are not sure the correct positon of IR window 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.

FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference

received, including interference that may cause undesired operation. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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