



**55328 Receiver
unit for 4 K
Wireless HDMI
KVM Extender Set**



Assmann 55328 Receiver unit for 4 K Wireless HDMI KVM Extender Set Installation Guide

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Assmann 55328 Receiver unit for 4 K Wireless HDMI KVM Extender Set



Safety Instructions

Please read the following safety instructions carefully before commissioning: Observe all warnings and instructions concerning the device

1. Do not expose the device to rain, moisture, vapors, or liquids
2. Do not insert objects into the device
3. Do not attempt to repair the unit yourself or open the housing. You risk electric shock!
4. Provide sufficient ventilation to avoid damage due to overheating
5. Make sure that the unit is switched off and in a safe environment before starting up the unit
6. During thunderstorms, damage can occur to connected electrical equipment due to overvoltage caused by lightning strikes
7. Do not operate the device during thunderstorms
8. Disconnect the device from connected electrical devices during thunderstorms
9. Use the device only inside buildings
10. Return the device to your dealer in case of repair
11. Dust, humidity, vapors, and strong cleaning agents or solvents can cause damage to the unit. Disconnect the device from the power supply and connected devices before cleaning.
12. Clean the device with a dust-free cloth
13. Use only the supplied power supply for the operation
14. To completely disconnect the system from the power supply, you must unplug the power supply from the power outlet. You can disconnect the device from the power supply via the power supply unit.

Introduction

The 4K Wireless HDMI KVM Extender Set transfers your HDMI video and audio signals in UHD 4K/30 Hz without a cable over a distance of up to 150 m (unobstructed view). This consists of a transmitter and receiver unit. Thanks to KVM functionality, the mouse/keyboard can be connected to the receiver unit, which makes it possible to control the signal source directly on the output device. Using the HDMI loop-out to the transmitter unit, a local

monitor can be connected to control the output to the receiver. The Extender Set can be extended on up to 4 screens (output devices) – additional receiver available separately: DS-55329.

Main Features

- Wireless HDMI signal transmission up to 150 m (with an unobstructed view)
- Point-to-multipoint connection – 1x transmitter (source) + up to 4x receivers (output device)
- Additional receiver units available separately: DS-55329
- Supports wireless AV signal transmission with resolutions up to 4K UHD (2160p / 30 Hz)
- Easy operation and handling thanks to Plug & Play – Just plug in and get started, no driver or software is required
- Touch Screen Back Control – Supports touch screen panels (via USB connection on the receiver)
- Power supply via USB-C connection + power adapter (included)
- AES 128-bit encryption
- WPA2 protocol
- HDMI 2.0 / HDCP 2.2

Package Contents

- 1x Transmitter unit
- 1x Receiver unit
- 2x USB Power adapter (DC 5V/2A)
- 2x USB-A to USB-C cable (1.5 m)
- 2x HDMI connection cable (1.5 m)
- 1x USB-A to Micro-USB cable (0.8 m)
- 1x IR transmitter cable (1.2 m)
- 1x QIG

Product Specifications

Transmitter Specifications

Specifications	Details
HDMI in Version	HDMI 2.0
HDCP Version	HDCP 2.2
Input Resolution	4096×2160/60fps, 4096×2160/30fps, 3840×2160/60fps, 3840×2160/30fps, 1080p/60fps, 1080p/30fps, 1080p/24fps, 1080i/50fps, 1080i/60fps, 720p/30fps, 720p60fps, 480p/60fps
HDMI® Loop-out	Maximum 4K60
Transmission Resolution	Maximum 4K30
Latency	About 100 ms latency
Audio Format	PCM
Audio Channel	2 channels
IR Extended Function	Supports 38 KHz to 56 KHz wide frequency

USB KVM	Supports mouse/keyboard/touch panel back control
Wireless Standard	IEEE 802.11b/g/n/ac, 2.4G/5GHz, 2T2R
Platform Supported	Any devices that support HDMI port
Distance	About 150 meters in the clear line of sight
Throughput	Up to 866 Mbps
Frequency	5150-5350MHz, 5470-5725MHz, 5725-5850MHz, 5850-5925MHz The specific frequency bands utilized are upon the legal regulatio ns by each country
Bandwidth	Supports 20 MHz, 40 MHz, 80 MHz
WiFi PA	About 17 dBm

Auto Pairing & Auto Connection	Automatically establish a connection with the most favorable Wi-Fi channel accessible to guarantee exceptional wireless performance
High Sensitive Antennas	2x External high-sensitive antennas provide stable wireless connections and optimal coverage
I/O Ports	1x HDMI in 2.0 1x HDMI out 2.0 1x USB-C 1x Micro-USB 1x IR out 1x Power Button 1x Reset Button
LED	2x blue LED
Power Supply	DC 5V/2A
Power Consumption	About 5 W

Dimensions	154*77.5*21 mm
Weight	330 g
Operating Temperature	0 °C to +40 °C
Storage Temperature	-10 °C to +60 °C
Operating Humidity	10 % to 80 % relative humidity

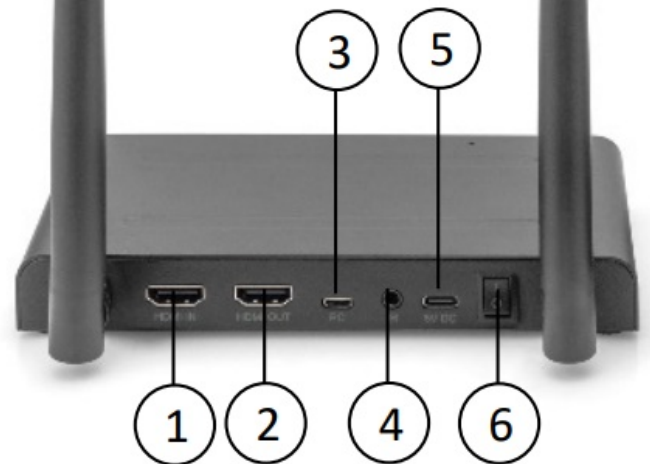
Receiver Specifications

Specifications	Details
HDMI® out Version	HDMI 2.0
HDCP Version	HDCP 2.2
Output Resolution	4096×2160/60fps, 4096×2160/30fps, 3840×2160/60fps, 3840×2160/30fps, 1080p/60fps, 1080p/30fps, 1080p/24fps, 1080i/50fps, 1080i/60fps, 720p/30fps, 720p60fps, 480p/60fps
Transmission Resolution	Maximum 4K30
Latency	About 100 ms latency
Audio Format	PCM
Audio Channel	2 channels
IR Extended Function	Supports 38 KHz to 56 KHz wide frequency
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LED	2x blue LED
Power Supply	DC 5V/2A
Power Consumption	About 5W
Dimensions	154*77.5*21 mm
Weight	330 g
Operating Temperature	0 °C to +40 °C
Storage Temperature	-10 °C to +60 °C
Operating Humidity	10 % to 80 % relative humidity

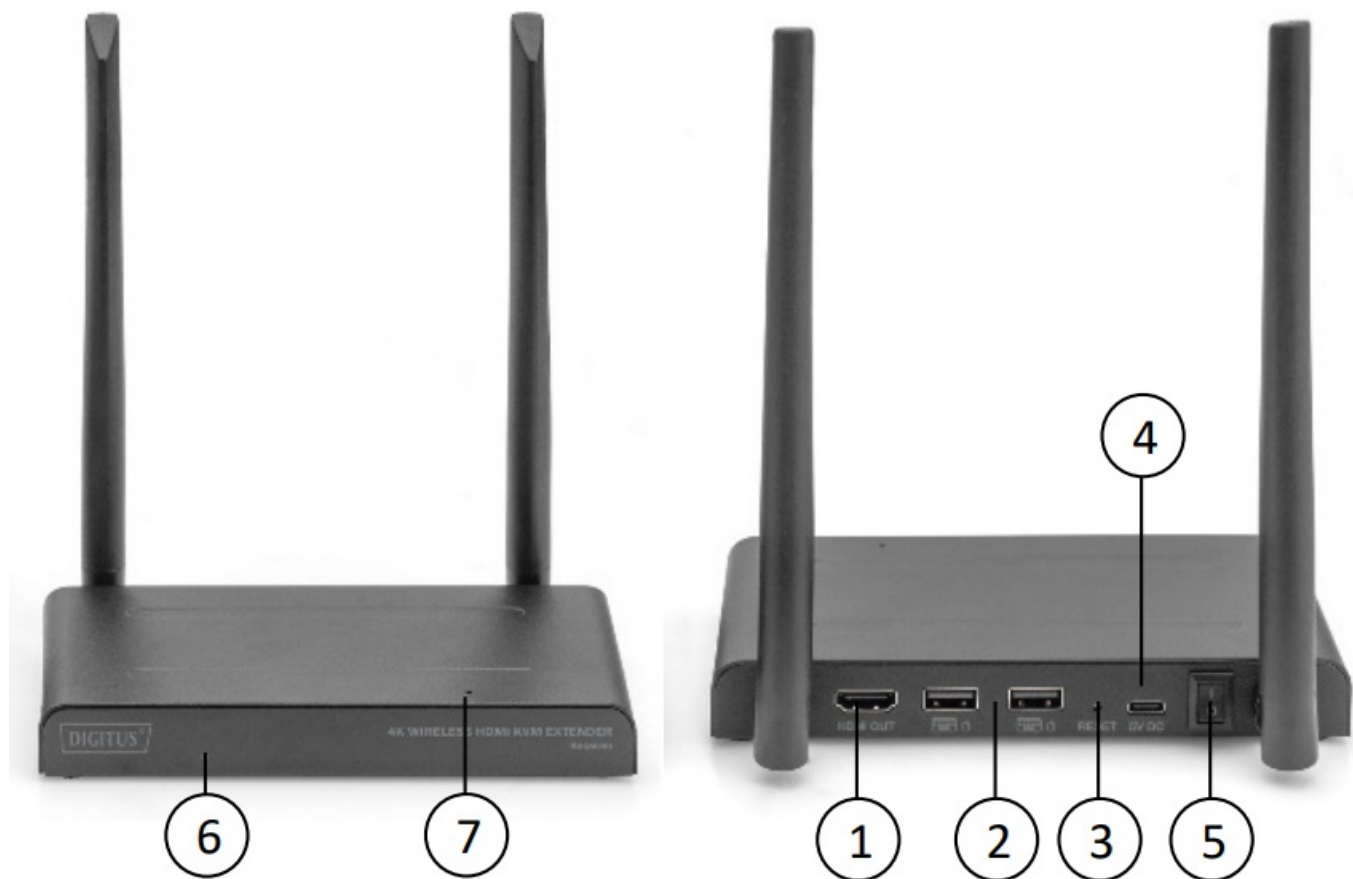
Product Overview

Transmitter Overview



1. HDMI in: Connect with the video source
2. HDMI® out: Connect with display for Pass-through (Loop Out)
3. Micro USB: Connect with USB of video source KVM function
4. IR Port: Connect with IR probe of video source for IR extended function
5. USB-C™: Connect with 5V/2A power adapter
6. Switch: Turn on/off the product
7. LED Indicator

Receiver Overview



1. **HDMI® out:** Connect with display
2. **USB:** Connect with mouse and keyboard for USB KVM function, you can also connect with the touch panel USB port for the touch panel back control
3. **Reset:** Reset to factory
4. **USB-C:** Connect with 5V/2A power adapter
5. **Switch:** Turn on/off the product
6. **IR Window:** IR extended function
7. LED indicator

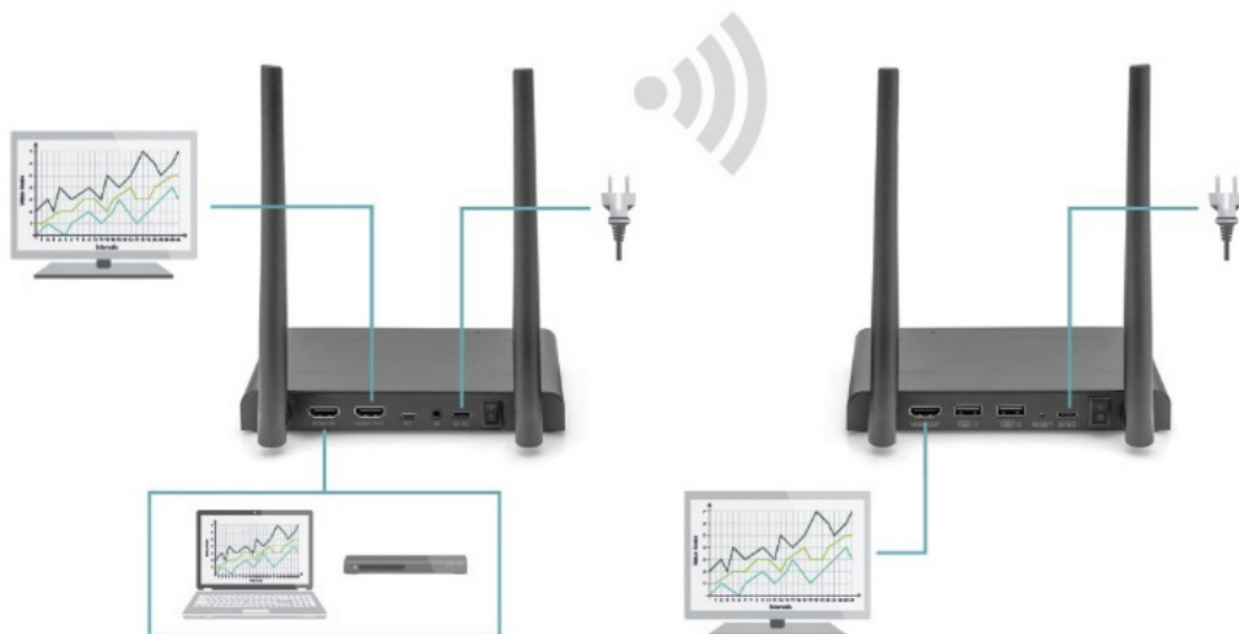
Connection Instruction

The 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 the additional receiver, you need to follow the instructions below to pair the new receiver with the transmitter.

1. Power on the transmitter (if necessary, deactivate already paired receivers beforehand, and disconnect them from the power supply)
2. Power on the receiver until it's on the main menu.
3. Press the receiver's reset button and hold for 5 seconds until the LED is flashing fast.
4. Wait around 30 seconds, the transmitter and receiver will pair automatically.



Installation Guide



Connecting the transmitter

The transmitter sends the video signal wirelessly to the receiver in another room. Therefore, place the transmitter near your HDMI source

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 (transmitter).
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 input signal

Connecting the receiver

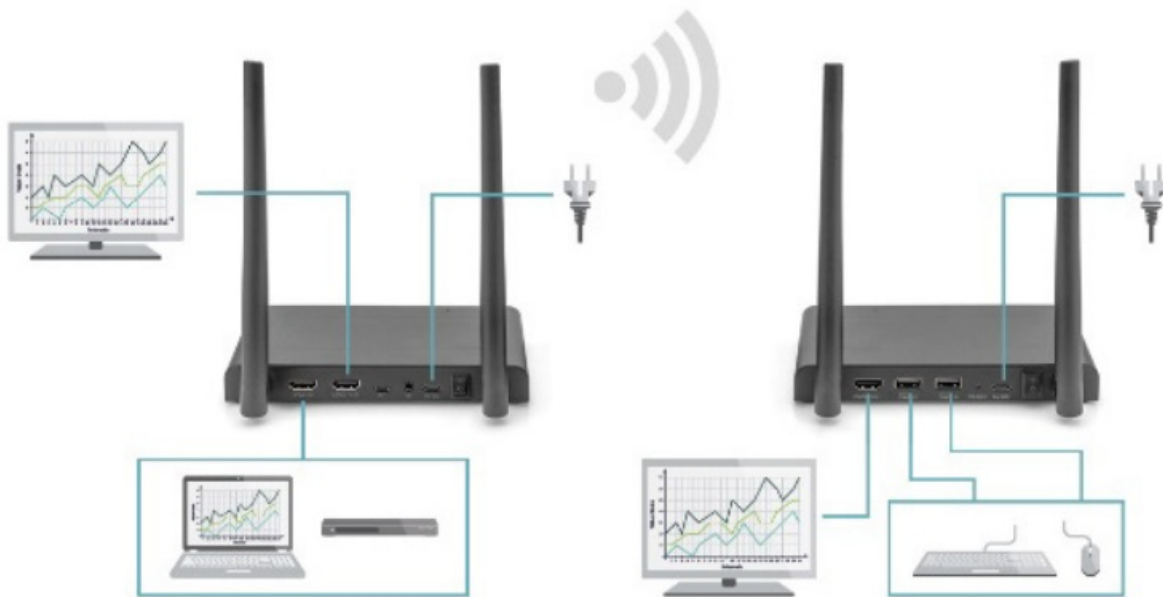
1. Connect the power adapter to the connector marked “5V” and insert the plug into the wall socket.
2. Place the receiver in the room (bedroom, study, or other room) where you want to connect the second TV or projector.
3. Use an HDMI cable to connect your TV or projector to the HDMI port marked “HDMI® OUT” on the receiver.

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

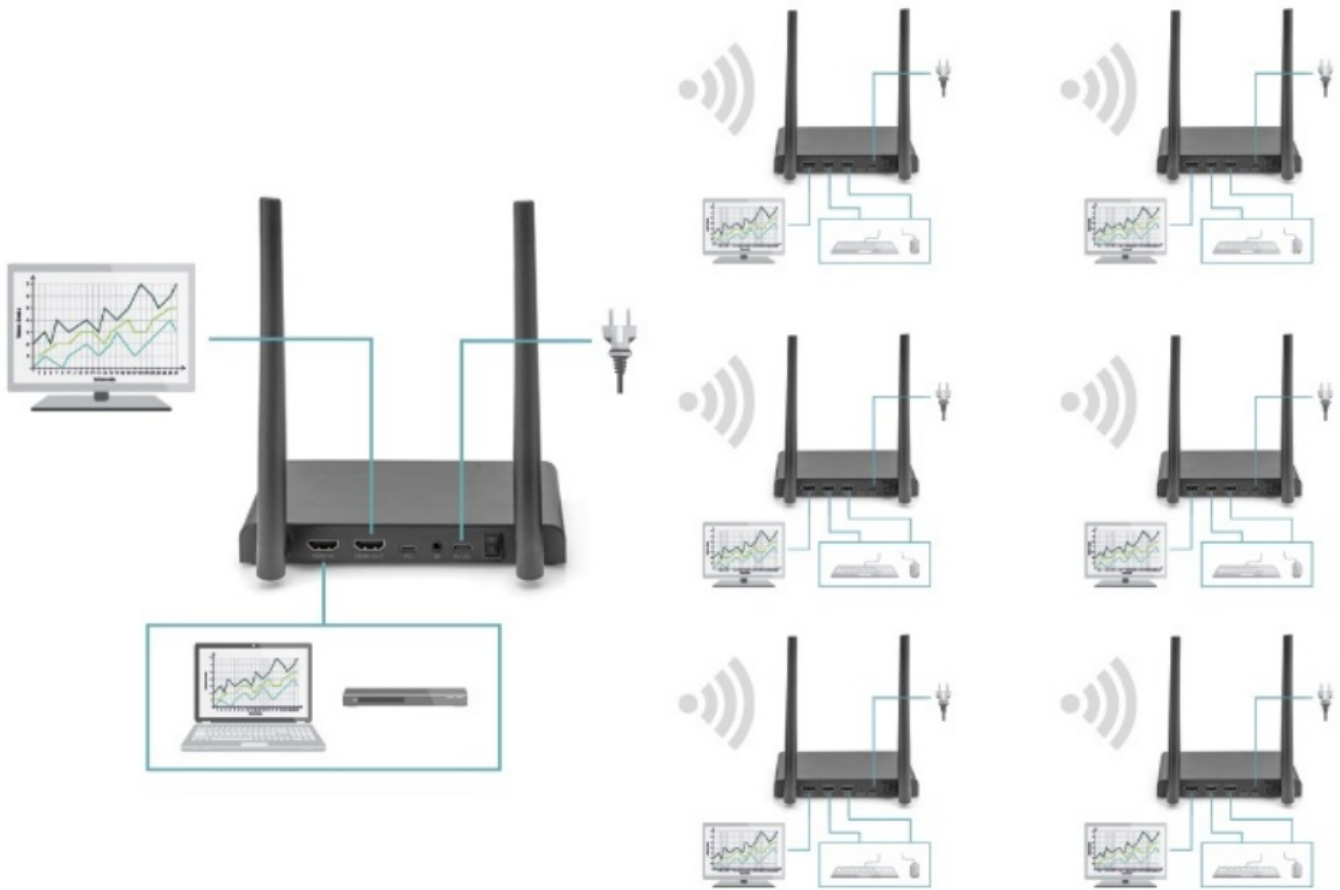
Two streaming modes

1x TX – 1x RX mode (Point-to-Point)

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

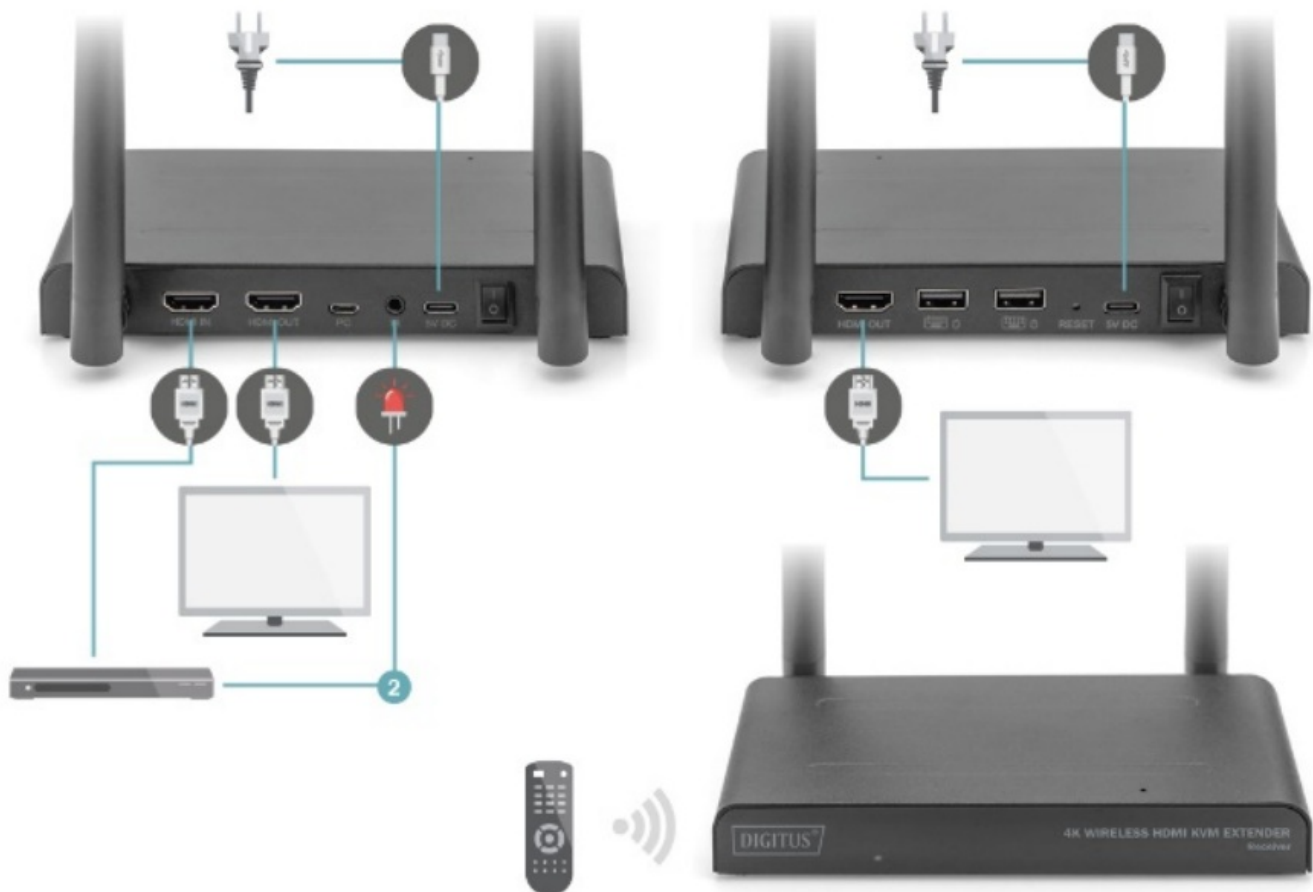


8.3.2 1x TX to 4x RX max. mode (Point-to-Multipoint)



The 4K Wireless HDMI KVM Extender Set also supports a 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. If you buy a new receiver, after powering 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 first, please check the “Pairing a transmitter and receiver” process.

Connecting infrared return



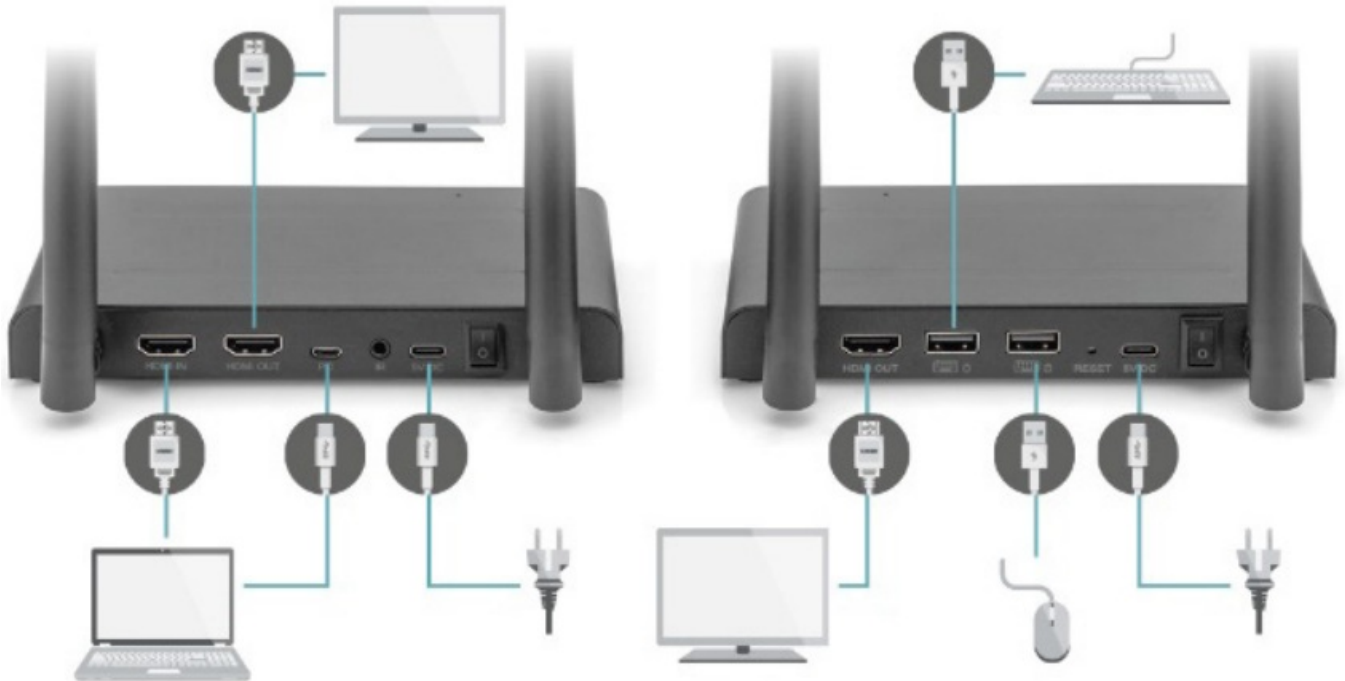
The 4K Wireless HDMI KVM Extender Set has a Built-in “infrared return” that enables continued operation of the connected HDMI sources from another room. For example, operate your HDMI source downstairs from your bedroom (location of the second TV). The IR cable receives the commands sent by the IR receiver and forwards them to your connected HDMI sources. Connect the IR cable (2) to the transmitter’s connector marked “IR”. Make sure that the LED of the IR cable is attached exactly to 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, and searching for the IR sensor window. Please experiment with the correct placement before the final attachment of the IR LED. Please note! The adhesive strip may cause discoloration on certain surfaces or leave adhesive residues after removal.

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.

1. Aim your remote control towards the IR On the front side of the receiver and send a command.
2. The IR Receiver will now send this command to the transmitter through the receiver.
3. The transmitter will forward this command to the IR on the transmitter. The IR then forwards the command to the HDMI source.
4. The HDMI source should now execute the function associated with the command sent by your remote control.

Connecting the USB extension



In addition to an infrared return feature, the 4K Wireless HDMI KVM Extender Set also features a built-in USB extension function. This helps you to continue to operate connected HDMI sources, such as a Desktop PC or laptop, from another room, using a mouse and/or keyboard.

Transmitter

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

Receiver

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

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.

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

Questions and answers

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

Move the transmitter and the receiver in the same room to test if the connection works well, and please make sure all 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 the 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 KVM Extender Set.

If the transmitter and receiver still have 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 transmitter and receiver.

1. Move the HD 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.
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 4K Wireless HDMI KVM Extender Set.

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

The 4K Wireless HDMI KVM Extender Set 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.

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 emitter probe in the surface of the IR window of the source device, if you are not sure of the correct position of the IR window of the source device,
 3. please refer to the manual of the source device.
 4. Please point the remote control to the IR receiver probe with 5 meters directly.
 5. The IR extender cable is based on 20KHz-60KHz remote signal protocol, which supports most of the IR remotes in the market, for special standard or old remotes may not supported.
- The transmission distance with a restricted visual range cannot be determined generally and depends on the specific circumstances where installed
 - Walls, glass, etc. shorten the signal range or cause signal losses

Frequency Range & Maximum Transmit Power

- DS-55328
- WiFi Standard: IEEE 802.11.b/g/n/ac 5.8G
- Channel: 36/40/44/48
- Core Frequency: 5150-5350MHz ; 5470-5725MHz; 5725-5850MHz ; 5850-5925MHz

- (The specific frequency bands utilized are upon the legal regulations by each country)
- Bandwidth: Support 20MHz, 40MHz, 80Mhz
- Transmitter power: 17dBm
- SW version:
- TX:5.0.7
- RX: 4.0.7
- HW version:
- **TX:** V11TX-4K60-V1
- **RX:** V11RX-4K60-V1

DS-55329

- WiFi Standard: IEEE 802.11.b/g/n/ac 5.8G
- Channel: 36/40/44/48
- Core Frequency: 5150-5350MHz ; 5470-5725MHz; 5725-5850MHz ; 5850-5925MHz
- (The specific frequency bands utilized are upon the legal regulations by each country)
- Bandwidth: Support 20MHz, 40MHz, 80Mhz
- Transmitter power: 17dBm
- SW version:
- RX: 4.0.7
- HW version:
- RX: V11RX-4K60-V1


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- www.assmann.com Assmann Electronic GmbH Auf dem Schüffel 3 58513 Lüdenscheid Germany

Documents / Resources

 <p>DIGITUS[®] 4K Wireless HDMI[®] KVM Extender Set, 150 m</p> <p>Quick Installation Guide DS-55328</p>	<p>Assmann 55328 Receiver unit for 4 K Wireless HDMI KVM Extender Set [pdf] Installation Guide</p> <p>55328, 55328 Receiver unit for 4 K Wireless HDMI KVM Extender Set, 55328, Receiver unit for 4 K Wireless HDMI KVM Extender Set, unit for 4 K Wireless HDMI KVM Extender Set, 4 K Wireless HDMI KVM Extender Set, Wireless HDMI KVM Extender Set, HDMI KVM Extender Set, KVM Extender Set, Extender Set, Set</p>
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References

- [ASSMANN Electronic GmbH | Germany](#)
- [User Manual](#)

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