



## DIGITUS DS-55321 Wireless HDMI KVM Extender Set



## Contents [ [hide](#) ]

- 1 Introduction
- 2 Main Features
- 3 Package Contents
- 4 Product Features
- 5 Product Specification
- 6 Connection Instruction
- 7 Questions and answers
- 8 Frequency Range & Maximum Transmit Power
- 9 Important safety instructions
- 10 Customer Support
- 11 Documents / Resources
  - 11.1 References

## Introduction

The Wireless HDMI KVM Extender Set transfers your HDMI video and audio signals in Full HD without a cable over up to 200 m (unobstructed view). 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 auto-pairing function ensures straightforward installation.

## Main Features

- Wireless HDMI signal transmission up to 200 m (with unobstructed view)
- Point-to-point connection
  - 1x Transmitter (source) + 1x Receiver (output device)
- Supports transmissions resolutions up to Full HD (1080p / 60 Hz)
- KVM functionality for connection to mouse and keyboard
- Touch Screen Back Control – Supports touch screen panels (via USB connection on the receiver)
- Supports input signals with up to 4K/60Hz

- HDMI loop-out (4K/60Hz) for connection of a local monitor to the transmitter unit
- Auto-pairing function – No configuration required
- AES 128-bit encryption

## Package Contents

- 1x Transmitter unit
- 1x Receiver unit
- 2x USB Power adapter (DC 5V/1A)
- 1x IR transmitter (1.5 m)
- 1x Micro USB A cable (0.8 m) for data transmission
- 2x Micro USB A cable (1.5 m) for power supply
- 2x HDMI cable (1.5 m)
- 1x QIG

## Product Features

Features	Description
Plug and play	Simply connect the transmitter with the PC HDMI ports and connect the receiver with the screen, the transmitter and receiver will connect automatically
4K60 HDMI IN	Supports up to 4K60 HDMI IN
4K60 HDMI Loop out	Supports 4K60 Loop out with no latency
Transmission Quality	Supports 1080p transmission resolution
IR Back Control	Support IR back control function for 20KHz-60KHz remote signal
USB KVM	Support USB KVM function for mouse/keyboard/touch panel back control
Auto Pairing	Support transmitter and receiver auto pairing, no configuration needed

Auto Selection	TXRX will automatically select a channel with less interference to connect according to the current Wi-Fi interference situation
Wi-Fi MIMO Technology	Support the fast 802.11ac MIMO technology which increase Wi-Fi speeds
Anti-interference Technology	Proprietary anti-interference technology to ensure stable streaming in a crowded Wi-Fi environment, support up to 6 sets of equipment running at the same time at one space
High Security Protection	No worries about the data security, Wireless HDMI KVM Extender Set supports AES 128-bit security encryption and WPA2/WPA-PSK/ WPA2-PSK authentication protocol to protect data. HDCP supported to protect the content

## Product Specification

Feature	
Video Input Resolution	4K60,4K30,1080i/1080p/720p/576p/480p, up to 1080p at 60fps, suggests choosing the best resolution that TV can support to guarantee best display effect
HDMI loop out	Supports 4K60 Loop out with no latency HDR supported (HDR10/HDR12/Dolby Vision/HLG)
Video Input/ Output	HDMI interface
End-to-End Latency	About 120 ms
Transmission distance	About to 200 m (clear line of sight)
Connectivity	802.11 ac WiFi MIMO technology

Interface	HDMI OUT x 1 HDMI in x 1, Micro USB x 1, IR Jack x 1 Micro USB (DC 5V) x 1
LED	Red/Blue
Power supply	DC5V/1A
Power Consumption	About 2,5 W
Dimension	15.5 x 7.9 x 22 cm
Weight	326 g
<b>Temperature Range</b>	
Operating	0°C to +40°C (+32°F to +104°F)
Storage	-10°C to +60°C (+14°F to +140°F)
<b>Humidity</b>	
Operating	10% to 80% relative humidity
Storage	5% to 90% relative humidity

Receiver Features	Description
HDMI OUT	1080P60
Video Input/ Output	HDMI interface
End-to-End Latency	About 120 ms
Transmission distance	About to 200 m (clear line of sight)
Connectivity	802.11 ac WiFi MIMO technology

Interface	HDMI OUT x 1 USB x 1 Button x 1 (reset of factory) Micro USB (DC 5V) x 1
LED	Blue x 1
Power Supply	DC 5V/1A
Power Consumption	About 2,5 W
Dimension	15.5 x 7.9 x 22 cm
Weight	326 g
<b>Temperature Range</b>	
Operating	0°C to +40°C (+32°F to +104°F)
Storage	-10°C to +60°C (+14°F to +140°F)
<b>Humidity Range</b>	
Operating	10% to 80% relative humidity
Storage	5% to 90% relative humidity

## Connection Instruction

### Install Transmitter

**Step1:** Connect the power adapter (5V, 1A) to Transmitter and wall socket, the Transmitter will power on automatically, the power LED light will turn on flashing blue

**Step 2:** Connect video source (Receiver, DVD player, PC) to Transmitter (HDMI in) by HDMI cable

**Step3:** Connect Transmitter (HDMI out) to TV through HDMI cable

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

LED indicator	Description
Static red	Transmitter is booting on
Flashing red	Searching for receiver
Flashing blue	Waiting for connection
Static blue	Connected and start to be presenting
Flashing purple	No video input

## Install Receiver

**Step1:** Connect the power adapter (5V, 1A) to Receiver and wall socket, the Receiver will power on automatically, the power LED light will turn on flashing blue

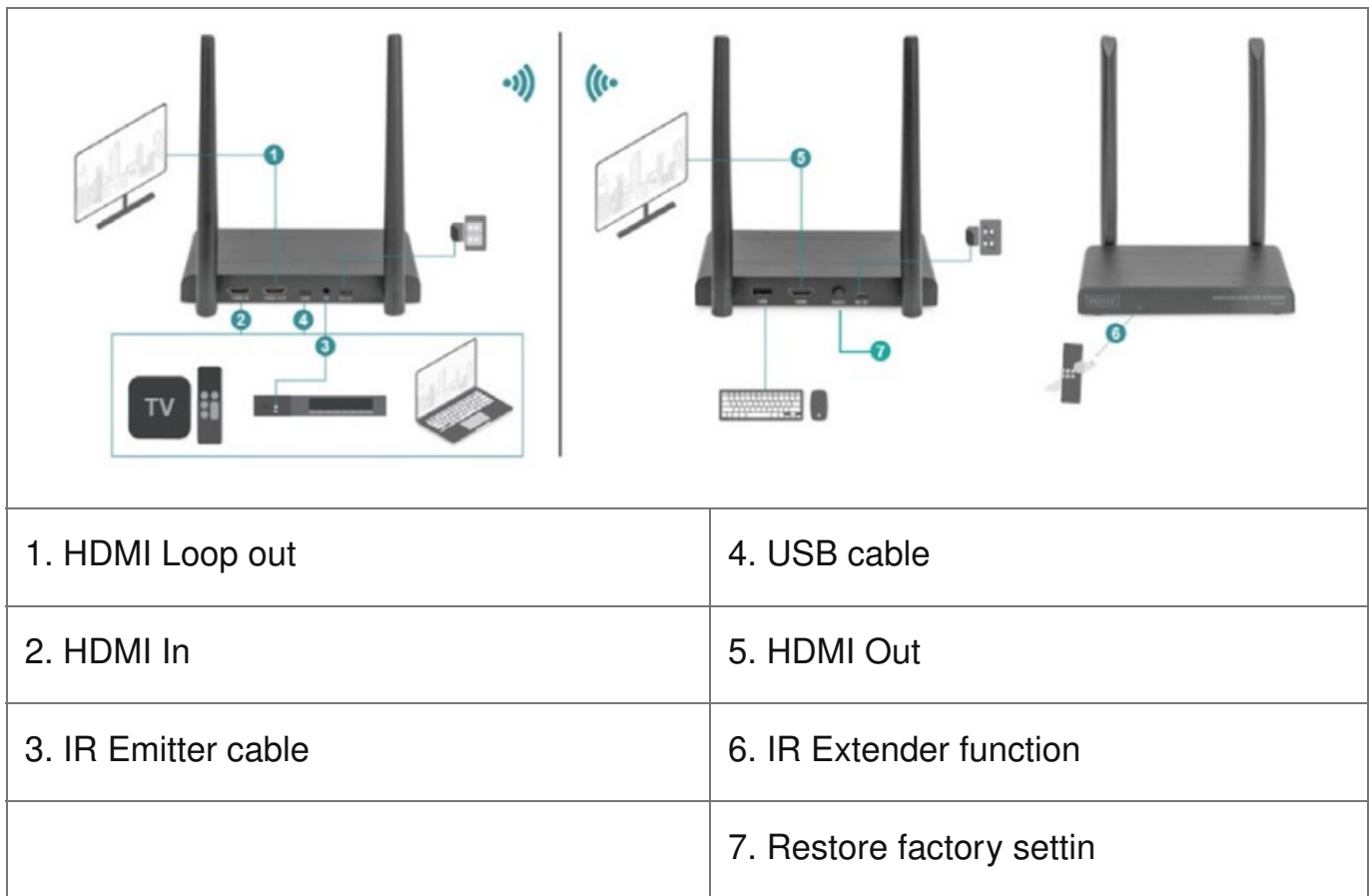
**Step 2:** Connect Receiver (HDMI Out) to TV by HDMI cable which comes with the package

**Step 3:** Wait around 50 seconds, the video will be sent from Transmitter to Receiver

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

LED indicator	Description
Flashing blue	Waiting for connection
Static blue	Connected and start to present

Transmitter	Receiver back view	Receiver front view
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### How to control the device by using remote control

1. Connect the IR emitter cable with the Transmitter IR jack, and stick the IR probe in front of the IR sender of the video source (Please find the correct position of IR sensor of the video source or the IR signal won't pass through)
2. Use the source device remote control aiming at IR receiver hole of the Receiver front panel to control the source device, the distance between this IR receiver probe and remote control should be within 5m

### How to control the device by using mouse/keyboard

1. Connect the PC Transmitter by using a Micro USB – USB Type A cable
2. Connect the Receiver USB jack with a mouse/keyboard (USB nano receiver)
3. Then you can use the mouse/keyboard to control the PC in other room

### Pairing a transmitter and receiver

A standard Wireless HDMI KVM Extender Set 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, purchased a new transmitter to replace, or need to pair with a different receiver, the devices must be paired before use.

## **How to 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. When the transmitter and receiver connected, the LED of both devices keep static blue.

### **Pairing instructions:**

1. Power on the transmitter.
2. Power on the receiver till it's on the main menu.
3. Press the button in the transmitter's IR hole by a slender tool, which is about 2mm in diameter, and hold for 5 seconds till the LED is flashing fast.
4. Wait around 30 seconds, the transmitter and receiver will pair automatically.

## **Questions and answers**

### **Q1: No Video/Bad Video or Incorrect Video/Video Stuck**

**A1:** This device will take about 25 seconds booting time after plug in the main power if all connects are OK, then you should see the signal on the TV on both Transmitter and Receiver

**A2:** Please make sure the HDMI in/out are connected correctly, if above connects are OK, then make sure you are using the HDMI cable inside the gift box, which provides noise reduction and shielding, and no noise will affect the wireless transmission (be sure to use the cable from your media source to the Transmitter HDMI IN interface)

**A3:** Please check whether the HDMI-in source is OK by connect it directly to TV

**A4:** Please make sure the HDMI-in is connected, otherwise no signal will output and the TV may stay in blue screen on both Transmitter and Receiver

**A5:** If above still not OK, please check the video source resolution and if it is supported by the device. Please refer the specification for supported resolution. If not, please set to right resolution according to the specification

**A6:** The device is using 5GHz WiFi connectivity, which will be interfered by other wireless devices, like WiFi router or microwave. Please place the Transmitter/ Receiver at other location with less interference and check again

**A7:** Try another HDMI cable with good shielding since sometimes some cables may have compatibility issues

**A8:** If problems still not solved, please restart both Transmitter/ Receiver and try again

## **Q2: Bad or incorrect audio**

**A1:** Our device only support 48/44. 1KHZ 16-bit digital audio, please check the source device set to correct audio standard

**A2:** If problems still not solved, please restart Transmitter/ Receiver and try again

## **Q3: The coverage distance is short**

**A1:** The max WiFi distance between Transmitter/ Receiver could reach 200 meters (Clear light of sight)

If the environment is not good (too many WiFi signals or with concrete wall), the distance could be much shorter

## **Q4: The USB keyboard and mouse not working from RX to TX**

**A1:** Make sure the Transmitter is connected to the source via a USB cable connection

## **Q5: The IR blaster doesn't work**

**A1:** Make sure to use the original remote control of the video source

**A2:** Please stuck the IR emitter probe in the surface of IR window of the source device,

if you are not sure the correct position of IR window of source device, please refer to the manual of source device

**A3:** Please point the remote control to the Receiver front panel with 5 meters directly

**A4:** 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

## **Frequency Range & Maximum Transmit Power**

- **WiFi Standard:** 802.11b/g/n/ac 5G WiFi
- **Channel:** 36, 40
- **Core Frequency:** 5180,5200
- **Range:** 5170 ~ 5210MHz
- **Bandwidth:** 20/40MHz
- **Transmitter power:** 13 dBm max
- **SW version:** RX: 2.67, TX: 2.3.9
- HW version:
- **TX:** A11TX-LC01-01
- **RX:** A11RX-LC01-01

## **Important safety instructions**

Please read the following safety instructions carefully before installation and operation:

1. Observe all warnings and instructions concerning this device
2. Do not expose the device to rain, moisture, vapors or liquids
3. Do not insert any objects into the device
4. Do not attempt to repair the unit yourself or open the cabinet. Risk of electric shock!
5. Ensure adequate ventilation to prevent damage due to overheating
6. Turn off the power supply and make sure the environment is safe before installation
7. In the event of thunderstorms, there is a risk of lightning strike and damage to connected electrical equipment due to overvoltage
8. Do not install this device during a thunderstorm
9. Disconnect the device from the connected electrical appliances during a thunderstorm

10. Use the device inside buildings only
11. Return the device to your dealer in case of repair
12. Dust, moisture, vapors and strong cleaning agents or solvents can damage the device
13. Disconnect the device from the power supply and the connected devices before cleaning
14. Clean the device with a lint-free cloth
15. To completely disconnect the system from the mains, the power supply unit must be unplugged from the socket. The power supply unit serves as a disconnecting device for separating the system from the mains.

Hereby ASSMANN Electronic GmbH declares that the Declaration of Conformity is part of the shipping content. If the Declaration of Conformity is missing, you can request it by post under the below mentioned manufacturer address.

## Customer Support

[info@assmann.com](mailto:info@assmann.com)

Assmann Electronic GmbH


Auf dem Schüffel 3

58513 Lüdenscheid

Germany



## Documents / Resources

	<p><a href="#">DIGITUS DS-55321 Wireless HDMI KVM Extender Set [pdf]</a> Installation Guide</p> <p>DS-55321, DS-55321 Wireless HDMI KVM Extender Set, Wireless HDMI KVM Extender Set, HDMI KVM Extender Set, KVM Extender Set, Extender Set</p>
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## References

- [User Manual](#)

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