



4K Wireless HDMI Extender Set, 4K/60Hz, 150 m



Installation Manual
DS-55359

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Introduction

Experience wireless picture transmission of the highest quality with the 4K Wireless HDMI Extender (150 m, 4K/60 Hz).

This powerful transmitter and receiver set enables the wireless transmission of HDMI video and audio signals in razor-sharp UHD resolution up to 4K/60Hz - without any annoying cable connections. Thanks to the latest wireless technology (IEEE 802.11 b/g/n/ac, 5 GHz), the extender reliably transmits signals over distances of up to 150 meters in clear view (100 meters with the antenna folded in). The point-to-point connection ensures stable and low-latency transmission with a delay of only around 100 ms, ideal for presentations, video streaming or use in home cinemas. Set-up is very simple via Plug & Play - connect, switch on and get started straight away. An automatic pairing function automatically selects the best Wi-Fi channel to ensure an optimal connection. The power supply via USB-C makes the system particularly flexible and compatible. Maximum security is ensured by AES 128-bit encryption in combination with the WPA2 authentication protocol (WPA2-PSK / WPA2-Enterprise).

Current standards such as HDMI 2.0 and HDCP 2.2 are supported, meaning that even protected content can be played back in the best quality. The H.265 compression ensures efficient transmission with the highest picture quality. With its compact design, LED status display and simple operating concept, the 4K Wireless HDMI Extender is the perfect solution for anyone who wants flexible, high-quality and secure HDMI signal transmission without cables.

1. Package content

- 1x Transmitter
- 1x Receiver
- 2x USB-A to USB-C cable (1.0 m)
- 2x HDMI extension cable (12.5 cm)
- 1x QIG



User Manual

2. Key features

- Wireless HDMI signal transmission 4K UHD (4K/60Hz) up to 150 m (unfolded antenna, unrestricted view)
- Wireless HDMI signal transmission 4K UHD (4K/60Hz) up to 100 m (folded antenna, unrestricted view)
- Supports resolutions up to 4K UHD (4096x2160p, 60Hz)
- Point-to-point connection - 1x transmitter (source) + 1x receiver (output device)
- Simple operation and handling thanks to Plug & Play - plug in and go, no drivers or software required
- Automatic pairing & connection: Automatically establishes a connection via the most advantageous WiFi channel to ensure the best possible WiFi performance
- Power supply via USB-C connection
- Connection button & LED status indicator
- AES 128 bit encryption / WPA2 protocol
- HDMI 2.0 / HDCP 2.2

3. Specifications

3.1. Transmitter (TX) Specifications

Parameter	Description
HDMI in Version	HDMI 2.0
HDCP Version	HDCP 2.2
Input Resolution	4096x2160/60fps/30fps/24fps; 3840x2160/60fps/30fps/24fps; 1080p/120/60fps; 1080p/60fps; 1080p/30fps; 1080p/24fps; 1080i/50fps; 1080i/60fps; 720p/30fps; 720p60fps; 480p/60fps
Transmission Resolution	Up to 4K/60Hz
Audio Format	PCM
Audio Channel	2 channels
Latency	About 100 ms
Wireless Standard	IEEE 802.11a/b/g/n/ac 5.8G
Frequency	5.150Ghz ~ 5.825Ghz
Frequency Bands	5150-5350MHz ; 5470-5725MHz; 5725-5850MHz ; 5850-5925MHz

	Specific frequency usage depends on local regulations
Bandwidth	866 Mbps (5GHz only)
Bitrate	Maximum 70 Mbps
Channel Width	Supports 20 MHz, 40 MHz, and 80 MHz
RF Power Amplifier	Maximum 17dBm
Security	WPA2-AES128 Advanced Encryption Standard
Antennas	2x 3dBi high-sensitive Antenna
Distance	Wireless HDMI signal transmission up to 150 m (unfolded antenna, unrestricted view) Wireless HDMI signal transmission up to 100 m (folded antenna, unrestricted view)
Ports	1x HDMI, 1x USB-C (for power), 1x Action Button
LED Indicators	2 LEDs (power and status indicators)
Power Supply	5V/2A (USB-powered)

Power Consumption	10W
Dimension	L 9.1 x W 3.4 x H 1.5 cm
Weight	65g
Operating Temperature:	0°C to +40°C
Storage Temperature:	0°C to +60°C
Operating Humidity:	10% to 80% relative humidity
Storage Humidity:	5% to 90% relative humidity

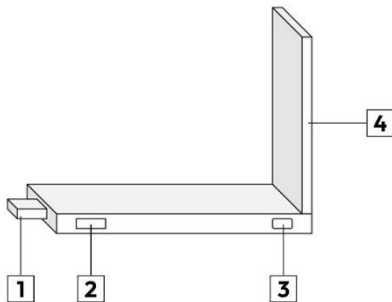
3.2. Receiver (RX) Specifications

Parameter	Description
HDMI out Version	HDMI 2.0
HDCP Version	HDCP 2.2
Output Resolution	Up to 4K40
Audio Format	PCM
Audio Channel	2 channels
Latency	About 100 ms
Wireless Standard	IEEE 802.11a/b/g/n/ac 5.8G
WIFI Frequency	5.150Ghz ~ 5.825Ghz
Frequency Bands	5150-5350MHz ; 5470-5725MHz; 5725-5850MHz ; 5850-5925MHz Specific frequency usage depends on local regulations
WIFI Bandwidth	866 Mbps (5GHz only)
Bitrate	Maximum 70 Mbps
Channel Width	Supports 20 MHz, 40 MHz, and 80 MHz
RF Power Amplifier	Maximum 17dBm
Security	WPA2-AES128 Advanced Encryption Standard

Antennas	2x 3dBi high-sensitive Antenna
Distance	Wireless HDMI signal transmission up to 150 m (unfolded antenna, unrestricted view) Wireless HDMI signal transmission up to 100 m (folded antenna, unrestricted view)
I/O Ports	HDMI out x 1; Type C x 1 (for power); Button x 1
LED Indicators	2 LEDs (power and status indicators)
Power Supply	5V/2A (USB-powered)
Power Consumption	10W
Dimension	L 9.1 x W 3.4 x H 1.5 cm
Weight	50g
Operating Temperature:	-20°C to +40°C
Storage Temperature:	-20°C to +60°C
Operating Humidity:	10% to 80% relative humidity
Storage Humidity:	5% to 90% relative humidity

4. Product Overview

4.1. Transmitter Overview



- 1. HDMI In:** Connect to the HDMI port of the source device.
- 2. Action Button:** Short press to start streaming;
long press for 5 seconds to reset.

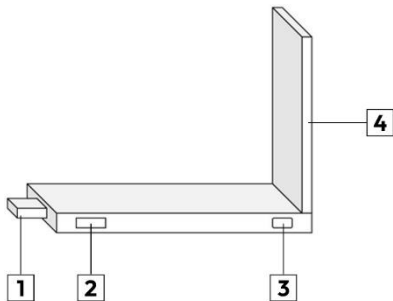
Button Function Definitions	Description
Single click	Start streaming /Stop streaming
Long Press 5 seconds	Reset

- 3. LED:** 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 starts to stream
Flashing purple	No video input signal

- 4. USB-C port:** The USB-C port is used to connect an external power supply, ensure the power supply (USB port or USB charger) provides 5V/2A for optimal performance.

4.2. Receiver Overview

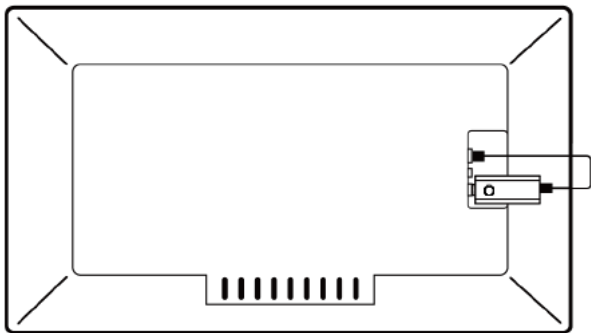


- 1. HDMI Out:** Connect with monitor or projector.
- 2. Action Button:** Long press about 9s for reset.
- 3. LED:** The detailed status of the LED is outlined in the table below:

LED indicator	Description
Flashing blue	Waiting for connection
Static blue	Connected and starts to stream

- 4. USB-C port:** The USB-C port is used to connect an external power supply, ensure the power supply (USB port or USB charger) provides 5V/2A for optimal performance.

5. Receiver Installation



1. Connect the receiver to the HDMI port of your display.

2. Power the receiver by connecting it's USB-C port to the displays USB port using the provided USB cable or an external USB charging adapter.

Note:

The receiver requires a power supply of 5V/2A. If your monitor cannot provide sufficient power, please use an external power adapter to ensure proper operation.

Manufacturer's instructions:

1. The transmission distance with limited visibility cannot be determined across the board and depends on the conditions on site
2. Walls, glass, etc. shorten the signal coverage or cause signal loss

6. Start Streaming

1. Connect the receiver via HDMI to the HDM port of the display.
Connect the USB power cable to the receiver (USB-C) and a power supply (USB port monitor or a USB charger)
2. Connect the transmitter via HDMI to the HDMI port of the source device. Connect the USB power cable to the transmitter (USB-C port) and a power supply (USB port source device or a USB charger).

The LED will start flashing red (searching for receiver), transmitter and receiver will connect automatically. The LED will turn static blue and the screen of the source device will be shown on the monitor connected to the receiver.

If the LED light of the transmitter is just flashing blue, press the action button to start sharing from the source device (transmitter).

Note:

1. Transmitter and receiver are already paired at the factory, normally you don't need to pair them. But if you encounter connection issues (while following all instructions before), please try to pair the transmitter and receiver again. See 7.2 "Pairing instructions"
2. The HDMI IN port of the transmitter supports power delivery. If your source device provides sufficient 5V power, it can directly power the transmitter. However, since the power output of the HDMI port of the source devices may vary, it is strongly recommended to use the USB power cable + supply (USB port or USB charger) to ensure a stable operation.

7. Pairing Transmitter and Receiver

DS-55359 includes a receiver and a transmitter, which are pre-paired. Under normal circumstances, no additional pairing is required. However, if you encounter persistent connection issues please try to pair the transmitter and receiver again.

7.1. 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 flashing red more than 1 minute, it indicates that the transmitter and receiver are not paired.

7.2. Pairing instructions:

- Connect the receiver to the display via HDMI and power it on via USB cable, wait until the receiver's start screen appears on the display.
- Connect the transmitter to the source device (e.g., PC). When the transmitter's LED starts flashing red, press and hold the action button for approximately 8 seconds until the LED flashes red rapidly. This indicates that the transmitter has entered pairing mode. Release the button at this point.

The transmitter will restart and search for the receiver to establish a connection. After successful pairing, the transmitter will automatically begin streaming content to the receiver. The LED will turn blue.

Note: This process may take up to 1 minute.

8. FAQ

1. Transmitter LED indicator stays solid red

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

To ensure stable operation, please connect a 5V 2A USB power supply to both the transmitter and the receiver.

2. The transmitter's LED indicator is flashing red continuously

Please follow below steps to troubleshoot the issue:

1. Place the transmitter and receiver are close to each other.

2. Make sure you power the transmitter separately via the USB-C cable with a sufficient 5V/2A power supply.
3. Verify that the receiver is powered on (via USB-C cable) and displaying its start screen.
4. If the receiver is on and the transmitters LED indicator has been flashing red for more than 1 minute, it indicates that the devices are not paired. Please refer to section 7.2 and repeat the pairing process.

3. 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/receiving a video source signal from the HDMI input.

This issue may occur due to:

1. Incompatible resolution settings between the video source and the transmitter.
2. A faulty HDMI port on the video source device.

Please follow below steps to resolve:

1. Adjust the video source's output resolution to match the supported resolutions listed in the transmitter's specifications.
2. If the issue persists, test the transmitter with a different video source.

4. Video stuttering while playing video

The product supports 5.8G Wi-Fi transmission and incorporates our unique anti-interference technology, allowing it to function smoothly up to 150 meters in clear line of sight (unfolded antenna). However, in areas with high interference, the transmission range may be significantly reduced.

1. Ensure that both the transmitter and receiver are used within the same space, maintaining a lower distance with no walls or other obstacles in between.
2. The distance is too far or obstacles between transmitter and receiver. Shorter the distance between transmitter and receiver.

3. Restart transmitter and receiver be de-connecting (HDMI, USB). Upon re-boot, the transmitter and receiver will automatically seek the best channel to connect under interference conditions.

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

The 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.

9. Safety Instructions

Please read these instructions thoroughly before you use the device and keep them for future reference.

- Observe all warnings and instructions concerning this device
- Only for indoor use
- Do not expose the device to rain, moisture, vapors or liquids
- Do not insert any objects into the device

- Do not attempt to repair the unit yourself or open the cabinet. Risk of electric shock!
- Ensure adequate ventilation to prevent damage due to overheating
- Turn off the power supply and make sure the environment is safe before installation
- In the event of thunderstorms, there is a risk of lightning strike and damage to connected electrical equipment due to overvoltage
- Do not install this device during a thunderstorm
- Disconnect the device from the connected electrical appliances during a thunderstorm
- Use the device inside buildings only
- Dust, moisture, vapors and strong cleaning agents or solvents can damage the device
- Disconnect the device from the power supply and the connected devices before cleaning
- Clean the device with a lint-free cloth

- 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
- 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

- Improper use, self-installed modifications or repairs will void any and all warranties
- We do not accept any product responsibility for incorrect use of the product or use other than for which the product is intended
- We do not accept liability for any consequential damage other than the legal product responsibility

Frequency Range & Maximum Transmit Power

- 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 depend on the legal regulations of each country)
- Bandwidth: Support 20MHz, 40MHz, 80MHz
- Transmitter power: 13dBm

- SW version:
 - TX: V7.0.3
 - RX: V6.0.3
- HW Version:
 - TX: V60T-VPlay-01
 - RX: V60R-VPlay-01

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.

info@assmann.com

Assmann Electronic GmbH

Auf dem Schüffel 3

58513 Lüdenscheid

Germany

