DIGITUS®

Wireless HDMI Extender Set, 50 m

Quick Installation Guide
DS-55318

Table of Contents

1. Introduction

With the Wireless HDMI Extender Set, you can wirelessly transmit HDMI video and audio signals in Full HD over a distance of up to 50 m with an unobstructed view. Operation and installation are super simple. Real Plug & Play - Just plug in and get started. The transmitter and receiver can be supplied with power via your device's HDMI connection (0.5A required), or alternatively (additionally) with the enclosed Micro USB cable via the USB connection of your notebook, PC, etc. Thanks to the compact design of the transmitter and receiver, installation is easy, quick and can be customized - the perfect solution for meeting and conference rooms. But it can also be used in private applications for spontaneous or temporary installations.

2. Main Features

- Wireless HDMI signal transmission up to 50 m
  (with unobstructed view)
- Point-to-point connection - 1x transmitter (source)
  + 1x receiver (output device)
- Supports resolutions up to Full HD (1080p / 60 Hz)
- Easy operation and handling thanks to Plug & Play
  - Just plug in and get started
- Power supply via Micro-USB
- Transmitter and receiver can be supplied with power via your device's HDMI connection (> 500 mA required).
  To have a safe and stable operation, we recommend to use always the Micro USB cable for power supply of TX and RX
- AES 128 bit encryption
- WPA2 protocol
- The set is ideal for subsequent, spontaneous, or temporary installations in meeting and conference rooms

3. Package Contents

- 1x Transmitter unit
- 1x Receiver unit
- 2x Micro USB cable (80 cm)
- 2x HDMI extension cable (15 cm)
- 1x QIG

4. 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
App Free	DS-55318 doesn't need any software or app installation, no setup, no IT team
All in one	Support Blu-ray DVD player, media player and any devices with HDMI jack
Auto Channel Selection	The DS-55318 will select the best Wi-Fi channel automatically after power on to ensure streaming smoothly

| Fast Speed with 5G AC MIMO Technology	The DS-55318 comes with the fast 802.11ac MIMO technology which increases Wi-Fi speeds by allowing a pair of wireless devices to simultaneously send or receive multiple data streams
1080p High Video Quality	DS-55318 supports 1080p resolution, which means much more clear pictures, rich in details and texture compared with 720p.
High Security Protection	No worries about the data security, the DS-55318 supports AES 128-bit security encryption and WPA2/WPA-PSK/WPA2-PSK authentication protocol to protect data. HDCP is supported to protect the content

5. Product Specification

Feature	
Video Input	1920x1080 (1080p60/50/30/25/24，1080i60/50) 1280x720 (720p60/50) 720×576 (576p50) 720×480 (480p60)
Video decode and output	Up to Full HD, 1080p/60 Hz
Audio	Stereo, quality 16bits 48KHz
Wireless Channel	IEEE 802.11ac, 5GHz, 2T2R
Latency	Around 120ms latency
HDMI Version	HDMI 1.4 with HDCP1.3

Authentication Protocol	WPA2 (WPAS-PSK / WPA2-Enterprise)
Security	AES 128 bit
Platform supported	Any devices with HDMI jack
Distance	About 50 meters in the clear line of sight
Transmitter	
Interface	HDMI in jack x 1, micro USB x 1, button x 1
LED	Red/Blue
Switch Button	1 x
Power Supply	DC5V/0.5A
Power Consumption	About 2,5 W
Dimension	83 x 32 x 13mm
Weight	27.1 g
Receiver	
Interface	HDMI out jack x 1, micro USB x 1, button x 1
LED	Red and Blue
Power Supply	DC5V/0.5A
Power Consumption	About 2.5W
Dimension	83 x 32 x 13mm
Weight	27.1 g
Temperature Range	
Operating	0°C to +40°C (+32°F to +104°F)
Storage	-10°C to +60°C (+14°F to +140°F)
Humidity	
Operating	10% to 80% relative humidity
Storage	5% to 90% relative humidity

6. Overview

6.1 Transmitter Unit
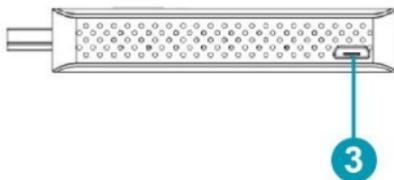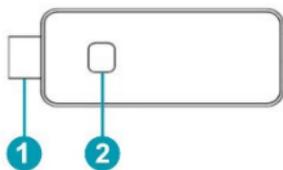
1. HDMI in	Connect source devices, like with a computer or other devices with HDMI, the HDMI in also supports 5V power if the source devices has HDMI with a 5V output
2. Button	Short press: start to cast Long press: long press up to 10 seconds for factory reset
2. LED	To display different statue
3. Micro USB	For power supply

**Remark:** if the source device has a HDMI with 5V power output, then there is no need to connect an USB cable for power.

LED indicator of the Transmitter Unit	Description
Static red	Transmitter Unit system is booting on
Flashing red	Transmitter Unit is searching for Receiver Unit
Flashing blue	Waiting for connection
Static blue	Connected and started to present
Purple	No HDMI in

6.2 Receiver Unit
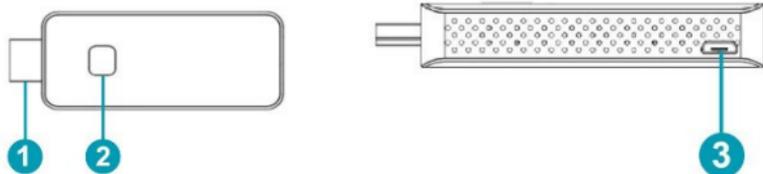
1. HDMI out	Connect with monitor or projector
2. Button	Press 10 seconds for factory reset
2. LED	To display different status
3. Micro USB	For power supply

LED indicator of the Receiver Unit	Description
Flashing blue	Waiting for connection
Static blue	Connected

7. Installation

Receiver Installation

- Connect the Receiver Unit HDMI with the big screen TV or projectors HDMI port
- Connect the USB port of Receiver Unit to the USB port of the TV through a USB cable for power supply

Transmitter Installation

- Connect the Transmitter Unit HDMI to PC HDMI port

Remark: if the source devices HDMI with 5V power output, then no need connect USB cable for power, if not, please connect the Transmitter Unit with PC by USB cable for power. To have a safe and stable operation, we recommend to use always the Micro USB cable for power supply of TX and RX

- The LED indicator of the Transmitter Unit will turn red when it's booting up
- The LED indicator will become constant blue when the Transmitter Unit and Receiver Unit connected

8. Pairing Transmitter and Receiver

A set of the Wireless HDMI Extender Set includes one receiver and one transmitter, which are paired before shipment. Normally you don't need to pair them again thanks to auto-pair feature.

However, if you need to re-pair, you need to follow the instruction below to pair the transmitter with the receiver:

1. Power on receiver and connect with display

2. Power on the transmitter till the LED turn to flashing red, then press the button up to 5 seconds till the LED become fast flashing red, this means the transmitter unit is in factory reset mode.

3. Wait around 15 seconds, the button light of Transmitter Unit will turn to constant blue from the red light, and the pair successful message will be displayed on the Receiver Unit screen.

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: 13dBm max
SW version: RX: v2.65, TX: v2.3.8
HW version:
TX: S100TX-LC01-01
RX: S100RX-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

Disclaimer

The terms HDMI and HDMI High-Definition Multimedia interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

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.

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

CE