



## **Wireless HDMI Extender / Splitter Set (100 m, 1x4)**



### **Manual**

DS-55346 - DS-55347



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# 1. Introduction

Experience ultimate flexibility and performance for the transfer of your Full HD AV signals with our wireless transfer system, which offers a range of up to 100 meters in a 1:1 connection with unobstructed view. Our system supports both Point-to-Point and Multicast (Point-to-Multipoint) transfers, which allows you the freedom of transferring your AV signal to multiple displays at the same time or connecting a single source with various target devices. With a maximum resolution of 1080p / 60 Hz, our system guarantees sharp and smooth reproduction of your content. You can also expand your system easily for up to 4 receiver units (DS-55347), to achieve video splitter functionality and share your HDMI signal on up to 4 displays. The transmission module features an additional HDMI output (loop-out) which enables you to connect to an external monitor, while integrated IR transmission allows for convenient control of your source device directly from the output display (receiver unit). Our Plug & Play system does not require any additional software or driver installation and is ready for immediate use.

# 2. Main Features

- Wireless transfer of Full HD AV signals over up to 100 m (1:1 connection, unobstructed view)
- Supports Point-to-Point and Multicast (Point-to-Multipoint) transfer
- Transfer of HDMI signals in Full HD with max. resolution of 1080p / 60 Hz
- Expandable for up to 4 receiver units (DS-55347) and offers video splitter functionality with additional receivers

- Distribute your HDMI signal on up to 4 displays
- Additional HDMI output (loop-out) on transmitter module for connection to an external monitor
- IR transmission to control the source device from output display
- Plug & Play - No software or driver required
- HDMI 1.4, HDCP 1.4

### 3. Package Content

- 1x Transmitter unit
- 1x Receiver unit
- 2x Antenna
- 2x Power adapter, cable length: 1.2 m
- 2 x IR connection cable, 1.2 m
- 1x User manual

### 4. Technical Features

Input Port	1x HDMI
Output Port	1x HDMI + 1x HDMI Loop Out
Wireless Extension Distance	1 to 1 connection: Up to 100m 1 to 2 connection: Up to 75m 1 to 3 connection: Up to 40m 1 to 4 connection: Up to 25m

Signal Compressing Latency	150-200 ms
Frequency Band Range	5GHz
Vertical Frequency Range	50/60Hz
Compression	H.265
IR Frequency Range	20-60KHz
Progressive Resolutions (50&60Hz)	480p, 576p, 720p, 1080p
Operating Temperature	0°C to 50°C
Storage Humidity	5% to 90% RH non-condensation
Power Supply	DC 5V/2A, 10W
Power Consumption (Max)	TX: 3W, RX: 1.5W
Dimension (L x W x H)	118 x 63.5 x 18 mm
Net Weight	TX:172 g, RX:170 g
Housing	Metal

## 5. Panel Description



1	<b>INPUT:</b> HDMI
2	<b>OUTPUT:</b> HDMI

3	<b>DC/5V:</b> DC 5V Input	
4	<b>Loop out:</b> HDMI Loop Out pot to connect local monitor	
5	<b>Reset:</b> Long Press 10 Seconds to Reset, Short Click to reconnect the Sender and Receiver	
6	<b>IR IN:</b> IR Signal Input	
7	<b>IR OUT:</b> IR Signal Output	
8	<b>Power LED</b>	
9	<b>Link</b>	<b>No Connection:</b> Constant light on <b>Get Connection:</b> Flashes Quickly
10	<b>Status</b>	<b>No Video Signal:</b> Flashes Slowly <b>Getting Video Signal:</b> Flashes Quickly

## 6. Connection Diagram

### Point-to-point Connection



### Point-to-Multipoint Connection



## 7. Pairing Transmitter & Receiver

The set (DS-55346) already has the transmitter & receiver paired at the factory. If you want to pair the transmitter & receiver again or add additional receivers (DS-55347), please follow the steps below:

### Step 1:

Install the antennas for the transmitter and receiver.



## Step 2:

Start with the transmitter unit first. 1) Press and hold the "RESET" button. 2) Now connect the external power supply unit that was previously plugged into the socket. Wait (and continue to hold the "RESET" button) until the status LED (10) starts to flash rapidly. You can then press the "RESET" button, the transmitter is now in pairing mode.

Repeat the process for the receiver unit(s) and put them into pairing mode as well.



**Step 3:**

While the transmitter and receiver are still in pairing mode (status LEDs flash quickly), you now need an HDMI connection cable (not included in the scope of delivery) to match the signal / pair transmitter & receiver.

Now connect "HDMI IN" of the transmitter and "HDMI OUT" of the receiver with the HDMI cable. (If necessary, repeat this step for other receivers in the same step)

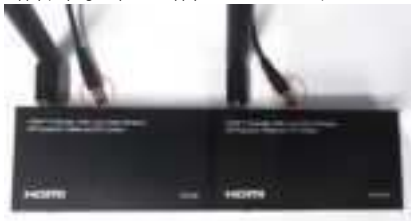


**Step 4:**

Once the transmitter and receiver have been successfully connected (step 3), the status LED stops flashing and lights up permanently, which means that the signal has been successfully matched / the transmitter and receiver(s) have been paired.

**Step 5:**

Now briefly disconnect the transmitter & receiver from the power supply (unplug the power supply unit for 3-5 seconds).

**Step 6:**

Now reconnect the power supply (power supply units) and connect your HDMI cables (HDMI IN transmitter -> HDMI source device & HDMI OUT receiver -> monitor/TV) to the source device and display(s).

Your display(s) will now show "Searching TX" for about 5 to 35 seconds (the time for the signal to build up varies depending on the local conditions).



**Step 7:**

Transmitter & receiver now connect to start wireless transmission -> the content of the signal source is shown on the display(s)

## 8. Troubleshooting

<b>Problem</b>	<b>Root</b>	<b>Solution</b>
No picture after correct connection (transmitter, receiver in the same room)	The transmitter and receiver may need to be paired again	Follow the matching steps to match the signal of the Sender and Receiver
No picture after correct connection (transmitter, receiver in different rooms)	The distance may not reach the specified maximum distance per connection constellation due to signal loss when passing through walls	When passing through a wall (less than 30 cm thick), the signal loses approx. 30 % of the original signal = the transmission distance is shortened. When crossing two or more walls, the distance is shortened further (<20 m for 1-to-1 connection). Check the distance and shorten it if necessary.
The image is not stable or the distance is shorter than	There may be some sources of interference in the same frequency band	Please position the transmitter and receiver closer together or, if necessary, remove

specified in the description	at 5GHz that affect the signal transmission of the extender	possible sources of interference that transmit on the same 5GHz frequency band from the room
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## 9. Safety Instructions

Please read the following safety instructions carefully before carefully before commissioning:

**Observe all warnings and instructions for the device.**

1. Do not expose the device to rain, moisture, vapors or liquids.
2. Do not insert any objects into the appliance
3. Do not attempt to repair the device yourself or open the housing. open the housing. You risk an electric shock!
4. Ensure adequate ventilation to prevent damage due to overheating damage due to overheating
5. Make sure that the device is switched off and is in a safe environment before putting the device into operation.
6. During thunderstorms, damage to connected electrical devices due to overvoltage caused by lightning strikes may occur
7. Do not operate the device during a thunderstorm
8. Disconnect the appliance from the connected electrical devices during a thunderstorm.
9. Only use the device inside buildings
10. Take the device to your dealer in case of repair
11. Dust, moisture, vapors and strong cleaning agents or solvents can cause damage to the device

12. Disconnect the appliance from the power supply and power supply and the connected devices before cleaning.
13. Clean the appliance with a dust-free cloth
14. Only use the power adapter supplied for operation
15. To disconnect the system completely from the power supply, you must unplug the mains plug from the socket. You can disconnect the device from the mains via the mains adapter.
16. The transmission distance with limited visibility cannot be determined across the board and depends on the conditions on site
17. Walls, glass, etc. shorten the signal coverage or cause signal loss

## **10. Frequency range and maximum transmission power**

- Wi-Fi standard: 802.11a
- Channel: 153
- Core frequency: 5765 MHz
- Frequency range: 5.755GHz ~ 5.775GHz
- Bandwidth: 20MHz
- Transmit power: 13.0 dBm max.
- SW version:  
TX: V\_H08\_I07\_C07\_P07  
RX: V\_R04\_C05\_I07\_P07
- HW version:  
TX: V1.0  
RX: V1.0

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.

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