



# 4K HDMI Extender Set, 4K/60Hz



**Quick Installation Guide**  
DS-55204 Rev.3

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## **Important Safety Instructions:**

1. Do not mix up HDMI to RJ45 sender and RJ45 to HDMI receiver before installation.
2. Do not hot plug when it is working.
3. Use DC 12V power supply only. Make sure specification matched if using adapters not supplied by factory.

# 1. Introduction

The Digitus 4K Extender Set, 4K2K/60Hz offers an extender solution of up to 70 m for the highest demands - both for high-resolution graphics and for absolutely smooth video playback. It transmits digital 4K2K/60Hz video and audio signals to a maximum length of up to 70 m. It consists of a transmitter as well as a receiver unit. It also includes two infrared units (transmitter, receiver) which enable the use of the remote control of the connected input source.

## 2. Product Features

- Extends 4K2K/60Hz video content to up to 70m
- PoC (Power over Cable) – Only the unit requires an external power adapter
- Supports 4K Ultra HD (60Hz), 4096 x 2160p resolution
- Integrated IR interface – Easy to control the input source using a remote control
- Supports CAT 6 and CAT 6A network cables
- Supports HDCP 2.2

## 3. Package Content

- 1x 4K HDMI Extender transmitter unit
- 1x 4K HDMI Extender receiver unit
- 1x Power supply unit: DC 12V/1A
- 1x IR transmitter unit
- 1x IR receiver unit
- 1x Instruction manual

## 4. Specification

Item		Description
Model		<b>DS-55204</b>
Function	Product type	HDMI2.0 Extender over CAT 6
<b>HDMI performance and Interface</b>	Max transfer rate	18Gbps
	Color Depth	12bit
	HDMI version	HDMI2.0
	HDCP version	HDCP2.2
	Supported video resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 4Kx2K@24/25/ 30/60Hz
	Supported audio formats	LPCM
	Connector	RJ45
	Latency	zero latency
	Input and Output TMDS signal	0.5~1.5Vp-p (TMDS)
	Input and Output DDC signal	5Vp-p(TTL)
<b>PSU</b>	Adapter	Voltage
		DC 12V/1A

		Power consumption	TX<2.5W RX<3W
<b>Protection level</b>	ESD protection		1a (contact discharge) level 3 1b (air-gap discharge) level 3 International Standard IEC61000-4-2
<b>Operating environment</b>	Operating temperature		(0°C ~ 50°C) 32°F ~ 122°F
	Storage temperature		(-20°C ~ 60°C) -4°F ~ 140°F
	Relative humidity		0 ~ 90% RH (non-condensing)
<b>Body properties</b>	Dimension		77.49×56.15× 22.66 mm
	Material		Aluminum Alloy material + crystal panel
	Weight		TX: 85g RX: 85g
	Color		black
	MTBF (Meantime between failures)		>30000Hours
<b>Accessory</b>	12V1A power adapter x 1 IR transmitter x 1 IR receiver x 1 User manual x 1		

# 5. Penal Description

## Transmitter unit (TX)



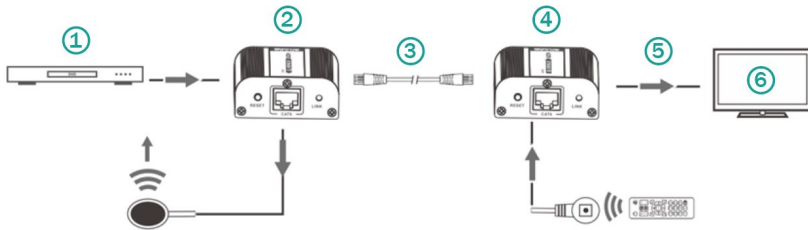
- |   |                    |   |
|---|--------------------|---|
| ① | Reset button       | Press for restarting the unit           |
| ② | RJ45 signal output | Output encoded HDMI signal              |
| ③ | Power indicator    | LED indicator turn on when power on     |
| ④ | DC 12V input       | Connect with the power supply           |
| ⑤ | HDMI signal input  | Connect with the source device          |
| ⑥ | IR signal output   | Connect with IR blaster extension cable |

## Receiver unit (RX)



- |   |                    |  |
|---|--------------------|--|
| ① | Reset button       | Press for restarting the unit            |
| ② | RJ45 signal input  | Input encoded HDMI signal                |
| ③ | Power indicator    | LED indicator turn on when power on      |
| ④ | DC 12V input       | Connect with the display supply          |
| ⑤ | HDMI signal output | Connect with the display device          |
| ⑥ | IR signal input    | Connect with IR receiver extension cable |

## 6. Connection



1	DVD	4	HDMI EXTENDER RX
2	HDMI EXTENDER TX	5	HDMI OUT
3	CAT6/6A/Cable	6	HDMI display

### 6.1 Connection instruction

- Connect source device to Transmitter unit (TX), and display device to Receiver unit (RX) via HDMI cables.
- Connect Transmitter unit (TX) and Receiver unit (RX) via network cables (CAT6, CAT6A or CAT7).
- Connect power supplies, this HDMI extender works.

### 6.2 IR User Guide

- IR blaster extension cable should plug in the IR OUT port of TX (Transmitter) of HDMI extender, and the IR receiver extension cable should plug in the IR IN port of RX (receiver) unit.
- The emitter of IR blaster should as close as possible to the IR receiver window of the signal source device.
- Using the IR remote controller of the signal source device towards the IR receiver (connected to the RX), to remote control source media playback.

## 7. Installation Requirements

1. HDMI source device
2. HDMI display
3. CAT 6/CAT 6A/CAT 7 cable. Follow standard IEEE-568B.  
(To comply with CE regulation. It is suggested to use shielding network cable to avoid interference)

## 8. Troubleshooting

Problems	Causes	Solutions
Non-power-connected/ all LED off	Maybe the power supply is not connecting well or use the wrong power adapter	Please check if the power supply is connecting well and the output voltage value is correct as recommended
No sound or sound issues	Maybe the HDMI connection is not well; the audio format is not supported by the displays; the source player set another port to output audio	Please check if the HDMI cables are connecting well; if the audio format is supported by the displays, customers can change to the supported audio format or the player`s audio output is setting HDMI audio output or not
No picture or picture flicker	Maybe the HDMI cable quality and UTP cable quality is not good enough or not connecting well	Please check if the HDMI and UTP connection is well or change another good quality HDMI 2.0 standard HDMI cable or UTP (CAT6 or higher is



		recommended) cable will solve the issue.
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This is a Class A product. In home environment, this product may cause radio interference. In this case, the user may be required to take appropriate measures.

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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