



## 4K HDMI Extender Set, 4K2K/60Hz



### Manual

DS-55204

The DIGITUS 4K Extender Set, 4K2K/60Hz offers an extender solution of up to 60 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 30 m. 4K2K/30Hz content can be transmitted to up to 60 m. It also supports UTP/STP CAT 6, 6a as well as 7 network cables (as per IEEE-568B standard). 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.

## Important Safety Instructions:

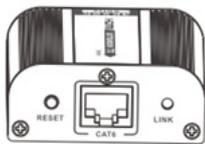
1. Do not mix up HDMI to RJ45 sender and RJ45 to HDMI receiver before installation.
2. Do not hot plug when it is working.
3. Use DC5V power supply only. Make sure specification matched if using adapters not supplied by factory.

## Features

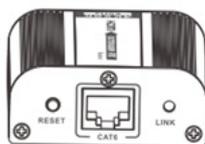
1. Support HDMI2.0, compatible with HDCP2.2
2. Highest resolution support 4Kx2K@60Hz
3. Transmission over single CAT6/6A/7
4. Support IR passback function (IR range support 20~60KHz)
5. Support distance up to 60m when 4K@30Hz, and 30m when 4K@60Hz
6. Plug and play
7. Metal casing, stable and durable

## Package Contents

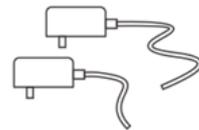
- 1x4KHDMIExtendertransmitterunit
- 1x4KHDMIExtenderreceiverunit
- 2xPowerSupplyUnit:DC5V/1A
- 1xIRtransmitterunit
- 1xIRreceiverunit
- 1xInstructionmanual



Transmitter unit ×1pcs



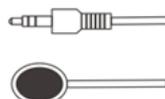
Receiver unit ×1pcs



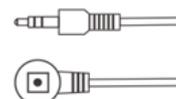
DC5V/1A ×2pcs



User manual ×1pcs



IR blaster extension cable  
×1pcs



IR receiver extension cable  
×1pcs

## Specification

Item		Description	
Model		DS-55204	
Function	Product type	<b>HDMI2.0 Extender over CAT 6</b>	
	Feature	HDMI2.0 extender over CAT 6, 30m with 4K@60Hz, 60m with 4K @30Hz, zero latency	
HDMI performance and Interface	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)	
PSU	Adapter	Voltage	DC5V/1A
		Power consumption	TX<2.5W RX<3W
Protection level	ESD protection	1a (contact discharge) level 3 1b (air-gap discharge) level 3 International Standard IEC61000-4-2	
Operating environment	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)	
Body properties	Dimension	77.49×56.15×22.66mm	
	Material	Aluminum Alloy material +crystal panel	

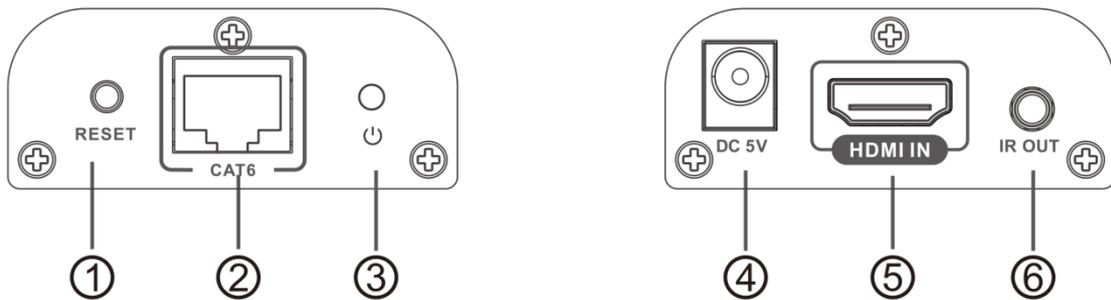
	Weight	TX: 80g RX: 80g
	Color	black
	MTBF(Meantime between failures)	>30000Hours
<b>Accessory:</b>	5V1A power adapter x 2 IR sender x 1 IR receiver x 1 User manual x 1	

## Installation Requirements

1. HDMI source device (computer graphics card, DVD, PS3) HD monitoring like camera etc.
2. HDMI display device like SDTV, HDTV, and projector with HDMI port.
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)

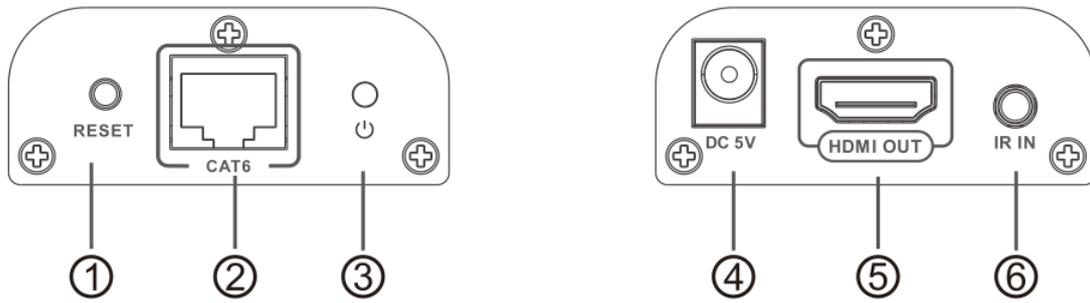
## Interfaces

### 1. 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 | DC5V 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 |

## 2. 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	DC5V 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

## Installation Procedures

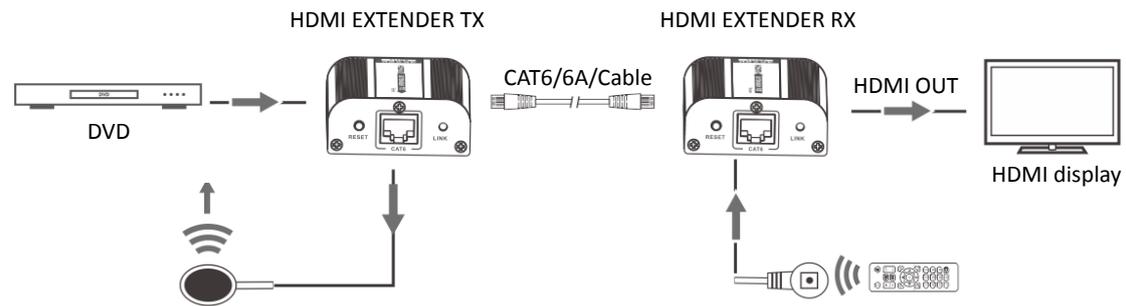
### 1. How to make a CAT 6 network cable?

Follow the standard of IEEE-568B:

- 1-Orange/white
- 2-Orange
- 3-Green/white
- 4-Blue
- 5-Blue/white
- 6-Green
- 7-Brown/white
- 8-Brown



## 2. Connection



## 3. 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

## 4. 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.

## FAQ

**Q: There is no output on screen when all connections are correct?**

**A:**

1. Please check and make sure the display/monitor supports the HDMI signal which fed out from the source device.
2. Please make sure the HDMI cables supports 4K×2K if the output signal from the source device is 4K×2K resolution.
3. Please check and make sure the network cable insert to the RJ45 port well.
4. Restart the transmitter or receiver by pressing the reset button.

**Q: Black screen happened on the display/monitor?**

**A:**

- 1 Please check and make sure the length of the network cable within the usable range:  
CAT6 within 60m@4K×2K@30Hz,  
CAT6 within 30m@4K×2K@60Hz
- 2 Reset the transmitter unit for re-built the connection

**Q: The color becomes abnormality, or there is no audio output?**

**A:**

Reset the transmitter unit for re-built the connection

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.

[www.assmann.com](http://www.assmann.com)

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