

# HDMI Extender Set, 4K/60Hz, 70 m



Manual DS-55506

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## 1. Introduction

The DIGITUS HDMI Extender Set enables HDMI signal transmission over a distance of up to 70 m (4K/30Hz). The extender set supports UHD resolution (4K2K/60 Hz, 4:4:4, 18 Gbps) over a CAT 6/7/8 cable (60m distance). Thanks to PoC, only one unit needs to be supplied with power by an external power adapter. HDR, HDCP support as well as automatic EDID detection are also included as features. Using the HDMI loop-out to the transmitter unit, a local monitor can be connected in order to monitor the output to the receiver.

## 2. Main Features

- HDMI 2.0
- Supports Cat5e, CAT 6, CAT 6A, CAT 7, CAT 8 network cable
- 18 Gbps video bandwidth
- Supports 4K2K/60 Hz, 4:4:4
- HDCP 2.2 / 1.4
- Maximum transmission distance: 70 m
- PoC (Power over Cable) Only the unit requires an external power adapter
- Automatic EDID detection
- HDR support
- HDMI loop-out / output Connection of local monitor to the source device

## 3. Package Contents

- 1x Transmitter unit
- 1x Receiver unit
- 1x IR transmission cable (1.5 m)
- 1x IR receiver cable (1.5 m)
- 1x Power adapter (DC 12V/1A, 1.2 m)
- 4x Mounting plate
- 1x User manual

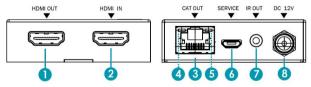
## 4. Specification

Technical			
HDMI Compliance			
HDCP Compliance	HDCP 2.2 / HDCP 1.4		
Video Bandwidth	18Gbps	1.00.21	
Video Resolution		60Hz 4:4:4	
Color Space	RGB / YCbCr 4:4:4, YCbCr 4:2:2/4:2:0, YUV		
color opace	4:4:4		
Color Depth	8/10/12-bit (1080P60Hz, 4K30Hz,		
	4K60Hz Y	'CbCr 4:2:2/4:2:0)	
	8-bit (4K	50Hz 4:4:4 )	
HDMI Audio		)/2.1/5.1/6.1/7.1, Dolby Digital,	
Formats	Dolby Tru	ueHD, Dolby Digital Plus (DD+),	
	DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X		
ESD Protection	Human body model		
	±8kV (Air-gap discharge) &		
	±4kV (Co	ntact discharge)	
Connections			
Transmitter	Inputs:	1x HDMI Type A [19-pin female]	
		1x SERVICE	
		[Micro USB, Update port]	
	Outputs:	1x HDMI Type A [19-pin female]	
		1x IR OUT	
		[3.5mm Stereo Mini-jack]	
		1x CAT OUT [RJ45, 8-pin female]	
Receiver	Inputs:	1x IR IN [3.5mm Stereo Mini-jack]	
		1x CAT IN [RJ45, 8-pin female]	
		1x SERVICE	
		[Micro USB, Update port]	
	Outputs:	1x HDMI Type A [19-pin female]	

Mechanical			
Housing	Metal Enclosure		
Color	Black		
Dimensions	Transmitter / Receiver:		
	61mm [W] x 88mm	[D] x 18mm [H]	
Weight	Transmitter: 160g, R	leceiver: 155g	
Power Supply	Input: AC 100 - 240	/ 50/60Hz	
	Output: DC 12V/1A		
Power Consumption	3.84 W		
Operating	32 - 104°F / 0 - 40°C		
Temperature			
Storage	-4 - 140°F / -20 - 60°C		
Temperature			
Relative Humidity	20 - 90% RH (no condensation)		
Resolution /	4K60 -	4K30 / 1080P -	
Distance	Feet / Meters	Feet / Meters	
CAT5e	164ft / 50m	164ft / 50m	
CAT6/6a/7	197ft / 60m	230ft / 70m	
HDMI IN/OUT 10ft / 3m 30ft / 10n		30ft / 10m	
The use of "Premium High Speed HDMI" cable is highly			
recommended			

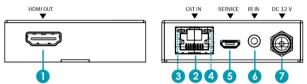
## 5. Operating Controls and Functions

### 5.1 Transmitter Panel



No.	Name	Function description
1	HDMI OUT	HDMI loop output port, connect to
		HDMI display device such as TV or
		Projector with an HDMI cable.
2	HDMI IN	HDMI input port, connect to HDMI
		source device such as DVD or PS4
		player with an HDMI cable
3	CAT OUT	Connect to CAT IN port on the receiving
		end with a CAT6 cable.
4	Power Indicator	The lamp will illuminate when the
	Lamp (Green)	transmitter is powered on.
5	Data signal	The lamp will illuminate when the
	Indicator Lamp	transmitter and the receiver have
	(Orange)	signal transmission.
6	SERVICE port	For firmware updated use.
7	IR OUT	Connect to wideband IR Blaster cable.
		The IR signal is from the IR IN port of
		the receiver
8	DC 12V	Plug DC 12V/1A power supply into the
		unit and connect the adapter to an AC
		outlet.
		(Note: The extender supports PoC
		function, it means that either
		transmitter or receiver is powered
		supply by 12V/1A power adapter, the
		other doesn't need power supply.)

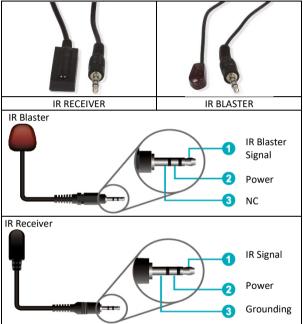
#### 5.2 Receiver Panel



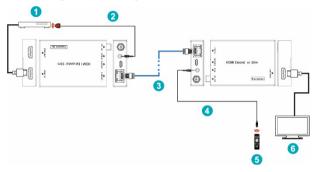
No.	Name	Function description
1	HDMI OUT	HDMI output port, connect to HDMI display device such as TV or Projector with an HDMI cable
2	CAT IN	Connect to CAT OUT port on the transmitter end with a CAT6 cable.
3	Power Indicator Lamp (Green)	Connect to CAT IN port on the receiving end with a CAT6 cable
4	Data signal Indicator Lamp (Orange)	The lamp will illuminate when the transmitter and the receiver have signal transmission
5	SERVICE port	For firmware updated use
6	IR IN	Connect to wideband IR Receiver cable. The IR signal will send to the IR OUT port of the transmitter
7	DC 12V	Plug DC 12V/1A power supply into the unit and connect the adapter to an AC outlet. (Note: The extender supports PoC function, it means that either transmitter or receiver is powered supply by 12V/1A power adapter, the other doesn't need power supply.)

#### 5.3 IR Pin Definition

IR Receiver and Blaster pin's definition as below:

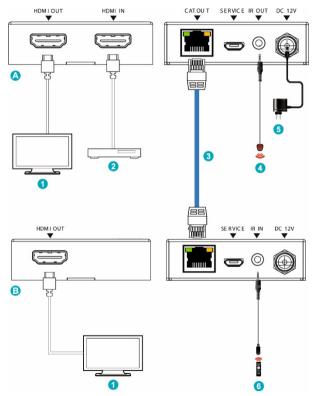


The following is IR system diagram about IR cable use method.



1	DVD	4	IR receiver cable
2	IR blaster cable	5	DVD remote
3	CAT 5e/6 cable	6	TV

Note: IR remote sends signal distance for 0~5meters / 0~8 meters, and angle is plus-minus45 degrees / vertical direction



## 6. Application Example

А	Transmitter	3	CAT 5e/6
В	Receiver	4	IR blaster
1	UHDTV	5	Power Supply
2	DVD or Blu-ray Player	6	IR Extender

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