DIGITUS®

4K HDBaseT™ HDMI KVM Extender Set, 70 m



Quick Installation Guide
DS-55512

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	Main Features

1. Introduction

The HDBaseT™ HDMI KVM Extender Set enables signal transmission over large distances using a simple copper data cable. The maximum transmission distance is 70 m (Full HD). 4K signals can be extended to up to 40 m. Thanks to PoC, only one unit needs to be supplied with power by an external power adapter. Bi-directional IR transmission and KVM functionality (USB 1.1) for connection to mouse and keyboard are also included as features.

2. Main Features

- Extends the maximum length for HDMI cables to up to 70 m (Full HD, 1080p/60Hz) or 40 m (UHD, 4K/30Hz) via a simple network cable
- KVM functionality (USB 1.1) for connection to mouse and keyboard
- PoC (Power over Cable) Only the unit requires an external power adapter
- Supports Cat5e, CAT 6, CAT 6A, CAT 7, CAT 8 network cable
- Video bandwidth: 10.2 Gbps
- Supports HDBaseT™ 1.0
- HDCP 2.2, 1.4
- IR transmission (bi-directional)
- · Compact design for easy and flexible installation
- · Sturdy metal housing

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, 1.45 m)
- 1x USB-B-A cable (1.5 m)
- 4x Mounting plate
- 1x User manual

4. Specification

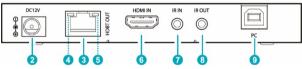
Technical		
HDMI Compliance	HDMI 1.4b	
HDCP	HDCP 2.2/1.4	
USB Version	USB 1.1	
Video Bandwidth	340MHz/10.2Gbps	
Video Resolution	480i ~1080p50/60Hz, 4Kx2K@24/30Hz	
Color Depth	8/10/12-bit (1080P@60Hz)	
	8-bit (4K2K@30Hz)	
Color Space	RGB, YCbCr 4:4:4/4:2:2.	
	YUV 4:2:0	
Audio Format	LPCM, Dolby Digital/Plus/EX, Dolby True	
	HD, DTS,	
	DTS-EX, DTS-96/24, DTS High Res, DTS-	
	HD Master	
	Audio, DSD	
Transmission Distance	Max. distance (1080P@60Hz): 230ft /	
	70m over CAT 5e/6	
	Max. distance (4K2K@30Hz): 131ft /	
	40m over CAT 5e/6	
ESD Protection	Human body model — ±8kV (Air-gap	
	discharge) &	
	±4kV (Contact discharge)	

Connection	Connection		
Transmitter	Inputs:	1× HDMI IN	
	[TypeA, 19-pin female]		
		1× USB [USB-B, female]	
	Output:	1× HDBaseT OUT [RJ45]	
	Controls:	1× IR IN	
		[3.5mm Stereo Mini-jack]	
		1× IR OUT	
		[3.5mm Stereo Mini-jack]	
Receiver	Input:	1× HDBaseT IN [RJ45]	
	Outputs:	1× HDMI OUT	
		[TypeA, 19-pin female]	
		2× USB [USB-A, female]	
	Controls:	1× IR IN	
		[3.5mm Stereo Mini-jack]	
		1× IR OUT	
		[3.5mm Stereo Mini-jack]	
Mechanical			
Housing	Plastic Enclosure		
Color	Black		
Dimensions	Transmitter / Receiver:		
	140mm (W) × 65mm (D) × 18mm (H)		
Weight	Transmitter: 224g; Receiver: 227g		
Power Supply	Input:	AC100 - 240V 50/60Hz	
	Output:	DC 12V/1A	
		(US/EU standards,	
		CE/FCC/UL certificated)	
Power Consumption	6.6W (max)		
Operating	0°C ~ 40°C / 32°F ~ 104°F		
Temperature			
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F		
Relative Humidity	20~90% RH (non-condensing)		

5. Operation Controls and Functions

5.1. Transmitter Panel

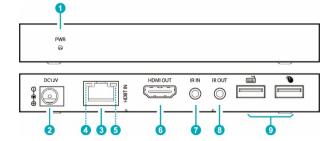




No.	Name	Function Description	
1	Power LED	The red LED is on when the	
		Transmitter is powered on.	
2	DC 12V	DC 12V/1A power input port.	
		Note that the extender supports POC function, it means that either Transmitter or Receiver is connected to 12V/1A power supply, the other doesn't need power supply.	
3	HDBT OUT	RJ45 connector for connecting the	
		HDBT IN port of the Receiver with	
		CAT 5e/6 cable.	
4	Connection Signal	 Illuminating: Transmitter and 	
	Indicator (Green)	Receiver are in good connection	
		status.	
		Flashing: Transmitter and Receiver	
		are in poor connection status.	
		Dark: Transmitter and Receiver are	
		not connected	

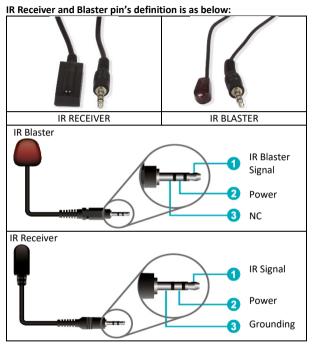
5	Data Signal Indicator (Yellow)	Illuminating: HDMI signal with HDCP. Flashing: HDMI signal without HDCP. Dark: No HDMI signal	
6	HDMIIN	HDMI signal input port. Connect to HDMI source device such as DVD or PC	
7	IR IN	Connect to IR receiver cable for receiving the signal from the IR remote	
8	IR OUT	Connect to IR blaster cable to control the source device. This IR output signal is from IR IN port of Receiver.	
9	PC	USB type B port, connect to PC.	

5.2. Receiver Panel



No.	Name	Function Description	
1	Power LED	The red LED is on when the	
		Transmitter is powered on.	
2	DC 12V	DC 12V/1A power input port. Note that the extender supports POC function, it means that either Transmitter or Receiver is connected to 12V/1A power supply, the other doesn't need power supply.	
3	HDBT IN	RJ45 connector for connecting the HDBT OUT port of Transmitter with CAT 5e/6 cable.	
4	Connection Signal Indicator (Green)	Illuminating: Transmitter and Receiver are in good connection status. Flashing: Transmitter and Receiver are in poor connection status. Dark: Transmitter and Receiver are not connected	
5	Data Signal Indicator (Yellow)	Illuminating: HDMI signal with HDCP. Flashing: HDMI signal without HDCP. Dark: No HDMI signal	
6	HDMI OUT	HDMI signal output port. Connect to an HDMI display device with HDMI cable.	
7	IR IN	Connect to IR receiver cable for receiving the signal from the IR remote.	
8	IR OUT	Connect to IR blaster cable to control the source device. This IR output signal is from IR IN port of Receiver.	
9	USB	USB type A ports, connect to key- board or mouse for KVM function	

5.3. IR Pin Definition



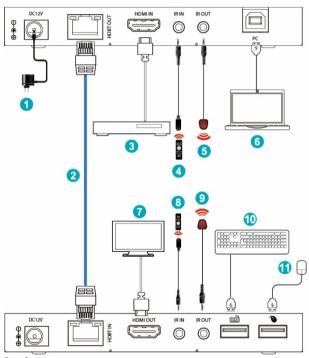
Note:

When the angle between the IR receiver and the remote control is \pm 45°, the transmission distance is 0-5 meters;

When the angle between the IR receiver and the remote control is \pm 90°, the transmission distance is 0-8 meters

6. Application Example

Transmitter



Receiver

1	Power Adapter	7	UHDTV
2	CAT 5e/6 cable	8	IR Receiver
3	DVD or Blu-ray Player	9	IR Blaster
4	IR Receiver	10	Keyboard
5	IR Blaster	11	Mouse
6	PC		

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