DIGITUS®

4K HDBaseT™ HDMI KVM Extender Set, 70 m



Quick Installation Guide
DS-55512

Table of Contents

Introduction	2
Main Features	3
Package Contents	3
Specification	4
Operation Controls and Functions	6
5.1. Transmitter Panel	6
5.2. Receiver Panel	7
5.3. IR Pin Definition	9
Application Example	.10
	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, 1.2 m)
- 1x USB-B-A cable (1.5 m)
- 4x Mounting plate
- 1x User manual

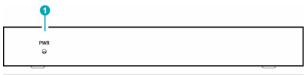
4. Specification

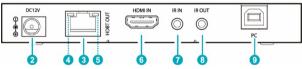
Technical			
HDMI Compliance	HDMI 1.4	b	
HDCP	HDCP 2.2/1.4		
USB Version	USB 1.1		
Video Bandwidth	340MHz/10.2Gbps		
Video Resolution	480i ~108	0p50/60Hz, 4Kx2K@24/30Hz	
Color Depth	8/10/12-b	oit (1080P@60Hz)	
	8-bit (4K2	K@30Hz)	
Color Space	RGB, YCb	Cr 4:4:4/4:2:2.	
	YUV 4:2:0		
Audio Format	LPCM, Do	lby Digital/Plus/EX, Dolby True	
	HD, DTS, I	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	T		
Transmitter	Inputs:	1× HDMI IN	
		[TypeA, 19-pin female]	
		1× USB [USB-B, female]	
	Output:	1× HDBaseT OUT [RJ45]	
	Controls:		
		[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

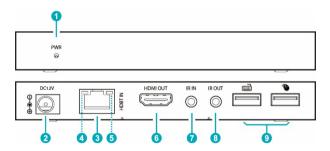




No.	Name	Function Description		
1	Power LED	The red LED is on when the Transmitter		
		is powered on.		
2	DC 12V	DC 12V/1A power input port.		
		Note that the extender supports POC function, it means that either Transmitter or Receiver is		
		connected to 12V/1A power supply, the other		
		doesn't need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

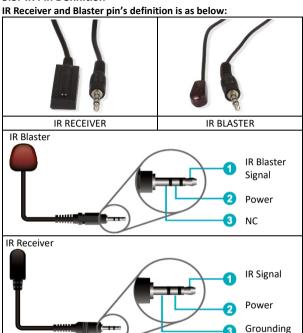
5	Data Signal Indicator (Yellow)	Illuminating: HDMI signal with HDCP. Flashing: HDMI signal without HDCP. Dark: No HDMI signal	
6	HDMI IN	HDMI signal input port. Connect to	
		HDMI source device such as DVD or PC	
7	IR IN	Connect to IR receiver cable for	
		receiving the signal from the IR remote	
8	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	
3	HDBT IN	doesn't need power supply. RJ45 connector for connecting the	
3	TIDDI IIV	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



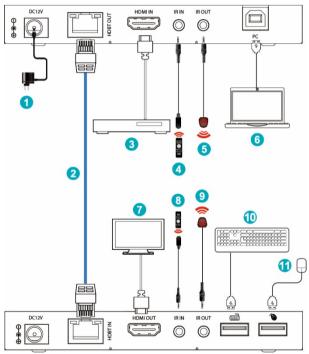
Note:

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 $\pm\,90^\circ$, the transmission distance is 0-8 meters

6. Application Example

Transmitter



Receiver

1 Pow	er 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		

Disclaimer

The terms HDMI and HDMI High-Definition Multimedia interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

HDBaseT™ and the HDBaseT Alliance logo are trademarks of the HDBaseT Alliance.

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

Assmann Electronic GmbH Auf dem Schüffel 3 58513 Lüdenscheid Germany

