



4K HDMI KVM Extender Set, HDBaseT™



Manual DS-55502 Rev. 2

The Digitus 4K HDMI KVM Extender Set consists of a transmitter unit (local control) as well as a receiver unit (remote control). The HDMI signal can be extended via a network cable (CAT 6) to a maximum distance of 70 m (Full HD video content). 4K video content can be extended to up to 40 m using a CAT 6 network cable. The highest supported video resolution is 4K UHD / 30 Hz. It also makes convenient access on a computer (mouse and keyboard) possible via the USB ports on the receiver unit. It is perfectly suited to industrial, commercial and public applications. The package also includes two bidirectional infrared units (sender, receiver), which can be used for the remote control of the connected input source.

Important Safety instructions

Please read below safety instructions carefully before installation and operation:

- Please pay attention to all the warnings and hints on this device.
- Do not expose this unit to rain, moisture and liquid.
- Do not put any stuff into the device.
- Do not repair or open this device without professional people's guidance.
- Make sure good ventilation openings to avoid product overheating damage.
- Shut off power and make sure environment is safe before installation.
- Do not plug-in/out the network cables and IR cables when it is in using to avoid cables damage.
- Make sure the specification matched if using 3rd party DC adapters.

Introduction

This KVM Extender is used to increase the distance between a source (computer, CPU) and its console (keyboard, mouse, and other peripheral devices). It is useful for control and security purposes. Therefore it is widely used in command center, data control center, operation rooms in military, bank, government, enterprise etc.

Features

- 1 Apply HDBaseT™ extend technology
- 2 Uncompressed HDMI video signal
- 3 Support distance up to 40m when 4Kx2K@30Hz
- 4 Extend 1080p signal over cat6 up to 70 meters
- 5 Support bi-directional IR pass back
- 6 Support HDCP, CEC, and 24 deep color
- 7 Support mouse and keyboard extension
- 8 Support uncompressed LPCM audio and compressed DTS-HD, Dolby true HD

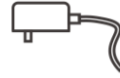
Package Contents



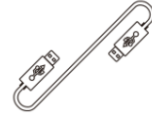
HDMI to HDBaseT™
TX sender*1pcs



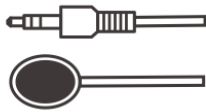
HDBaseT™ to HDMI
RX receiver*1pcs



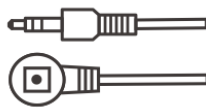
DC12V/1A *2pcs



USB Cable x 1pcs



IR blaster extension
cable*1pcs



IR receiver extension
cable*1pcs



User manual*1pcs

Installation Requirements

1. Source equipment:

HDMI source device (i.e.: computer graphics card, DVD, PS3, or HD monitoring equipment etc.)

2. Display devices:

With HDMI INPUT port, SDTV, HDTV, projector

3. Network cables:

UTP/STP Cat5e/Cat6/Cat6A/Cat7 network cables, which following the standard of IEEE-568B

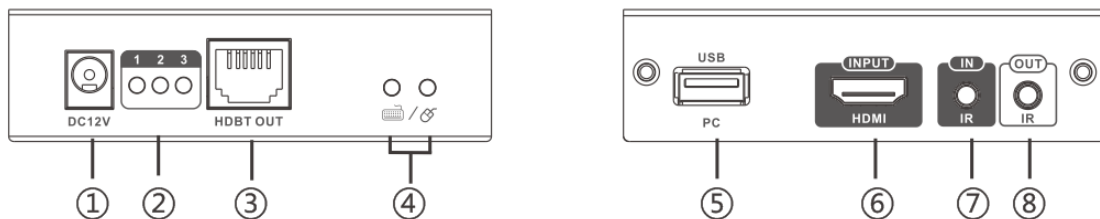
Specification

Part No.	DS-55502		
Technical	Transmitter-TX		Receiver-RX
HDCP compliance	HDCP1.4		
Transmission protocol	HDBaseT™		
Transmission distance	CAT5E/CAT6/CAT6A/CAT7		
Transmission distance	Cat5e	60m	Up to 1080p@60Hz 36bpp
		35m	1080p@60Hz 48bpp, 1080p@60Hz 3D, 4Kx 2K@30Hz
	Cat6	70m	Up to 1080p@60Hz 36bpp
		40m	1080p@60Hz 48bpp, 1080p@60Hz 3D, 4Kx 2K@30Hz
Video support	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz 4K×2K@24/25/30Hz		
Audio support	LPCM, DTS-HD, Dolby True HD		
Input TMDS signal	0.7~1.2Vp-p		
Input DDC signal	5Vp-p		
CEC	Supported		
RS232 support	No		
latency	zero latency		
supported configuration	point to point connection		
IR passback	yes, bi-direction		
IR frequency	20-60KHz		
HDMI source control	bi-direction IR		
HDMI connector	Type A 19 Pins, Female		
Network cable standard	CAT5E/CAT6/CAT6A/CAT7, follow IEEE-5688 standard		
Mechanical	Transmitter-TX		

Housing	Metal enclosure	Receiver-RX
Dimensions (L×W×H mm)	99.45×94.5×25.7mm	
Net weight	TX: 220g	
Power supply	12V/1A	RX: 230g
Power consumption	<8W	
Operation temperature	0~50°C	
Storage temperature	-10~70°C	
Relative humidity	0~95% (no condensation)	

Panel Description

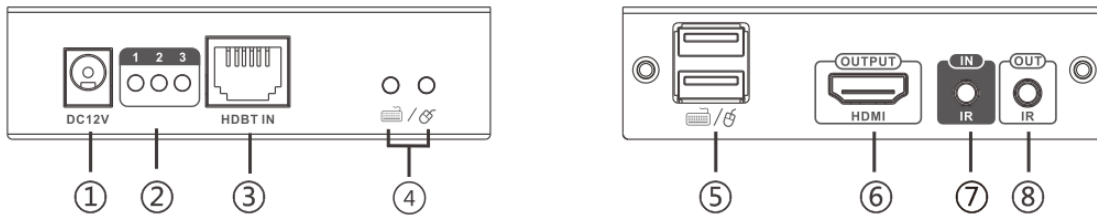
1. Transmitter Unit (TX)



①	DC12V input	Connect with the power supply
②	Transmission signal indicator	<p>1. The first led: It turns on when power on.</p> <p>2. The second led: It turns on when the transmitter unit and the receiver unit connect well with each other, and it flashes when there is no transmission between the transmitter unit and the receiver unit.</p> <p>3. The third led: It turn on when the receiver unit connect well with the HDMI display device, and it turn off when no transmission between the receiver unit and the display device.</p>
③	HDBT Output	HDBaseT™ signal output
④	USB connection indicator	Indicates that the signal is connected properly
⑤	USB port	Connect with computer/PC
⑥	HDMI input	Connect with HDMI source device

⑦	IR receiver extension cable interface	Connect with IR receiver extension cable. Please make sure the remote control is within the required range of IR receiver
⑧	IR blaster extension cable interface	Connect with IR blaster extension cable. Please put the IR blaster close to source device to get the best IR signal transmission from receiver.

2. Receiver Unit (RX)



①	DC12V input	Connect with the power supply
②	Transmission signal indicator	<ol style="list-style-type: none"> 1. The first led: It turns on when power on. 2. The second led: It turns on when the transmitter unit and the receiver unit connect well with each other, and it flashes when there is no transmission between the transmitter unit and the receiver unit. 3. The third led: It turn on when the receiver unit connect well with the HDMI display device, and it turn off when no transmission between the receiver unit and the display device.
③	HDBT Output	HDBaseT™ signal input
④	USB connection indicator	Indicates that the signal is connected properly
⑤	USB port	Connect with keyboard and mouse
⑥	HDMI input	Connect with HDMI display device
⑦	IR receiver extension cable interface	Connect with IR receiver extension cable. Please make sure the remote control is within the required range of IR receiver
⑧	IR blaster extension cable interface	Connect with IR blaster extension cable. Please put the IR blaster close to source device to get the best IR signal transmission from <i>receiver</i> .

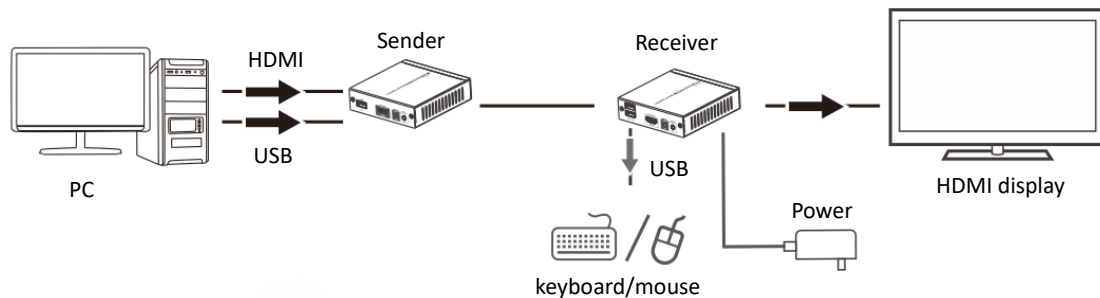
Installation Procedures

1. To make a Cat5e/6 network cable



1	white and orange	4	blue	7	white and brown
2	orange	5	white and blue	8	brown
3	white and green	6	green		

2. Connections



[NOTE]: It is recommended to power from the receiver unit.

3. Bi-directional IR pass back

- 1) It supports bi-directional IR pass back. User can control DVD at TX end and control TV at RX end.
- 2) If control at RX end, please connect IR blaster extension cable with IR OUT of TX and connect IR receiver extension cable with IR IN of RX. If control at TX end, please connect IR receiver extension cable with IR IN of TX and connect IR blaster extension cable with IR OUT of RX.

FAQ

Q: No output on screen?

A:

- 1) Firstly, please check and make sure the power supply is connected well. Then, check and make sure all cables are connected correctly.
- 2) Please check and make sure you have chosen the right HDMI input port of the TV/screen.
- 3) Please check and make sure there is HDMI signal to be fed into transmitter unit, and check whether the receiver unit has been connected well with the display device.

Q: No "3" led indicator keeps flashing and no output?

A: Check and make sure the HDMI display device has been switched to the right HDMI input channel.

Q: No "2" led indicator keeps flashing, and no "3" led indicator keeps off?

A: Check whether the TX'HDMI IN has signal input and make sure RX'OUT is well connected with HDMI display.

Q: Output image with snow point?

A: Change the HDMI cable between the transmitter unit and the source device; it will be better to use a shorter HDMI cable for re-testing.

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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.

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Assmann Electronic GmbH
Auf dem Schüffel 3
58513 Lüdenscheid
Germany

