DIGITUS®

HDMI KVM Extender over IP, Set

Quick Installation Guide
DS-55202 Rev.3

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1. Introduction

The Digitus HDMI KVM extender set consists of a sender unit (local location) as well as a receiver unit (remote location). The HDMI signal can be extended by means of a network cable (CAT 6, 5e, 5) up to a maximum distance of 120m. The HDMI signal can also be extended to an unlimited distance via the existing network infrastructure (via IP connection). The highest supported video resolution is 1080p / 60 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.

2. Product Features

- Extends the maximum length for HDMI cable to up to 120 m via a simple network cable
- Extension of the signal (unlimited distance) over the existing local network infrastructure (over IP connection)
- Highest supported video resolution: 1080p / 60 Hz
- Supports KVM function - convenient control of mouse and keyboard via USB on the receiver unit
- Supports LAN-standard 802.3 Ethernet 10/100/100 Mbps
- LED activity indicator for function, keyboard and mouse
- Supports UTP/STP CAT 5/ 5e/6/7 network cables in accordance with IEEE-568B standard
- Plug & Play, no additional software required

3. Package Content

- 1x HDMI Extender transmitter unit
- 1x HDMI Extender receiver unit

- 2x Power supply unit: DC 5V/1A
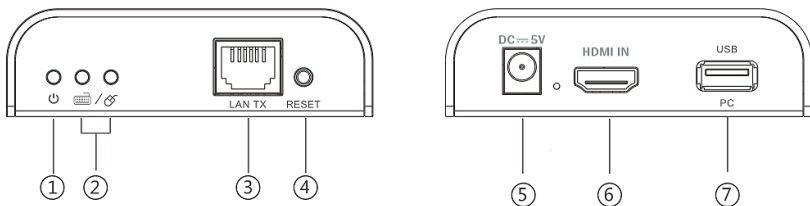- 1x Instruction manual
- 1x USB cable

4. Specification

Part No.	DS-55202	
Technical	**Transmitter-TX**	**Receiver-RX**
Signal format	HDMI 1.3	
HDCP	HDCP 1.2	
HDMI connector	Type A, 19 pin, Female	
Transmission distance	CAT5/80 meters, CAT5e/100meters, CAT6/120 meters	
LAN connector	RJ-45	
Video bandwidth	≤ 70Mbps	
resistance	75Ω	
Video Latency	70ms	
HDMI resolution supported	640*480@60Hz 1024*768@60Hz 1360*768@60Hz 1400*1050@60Hz 1920*1080@60Hz	800*600@60Hz 1280*720@60Hz 1440*900@60Hz 1680*1050@60Hz
Audio support	PCM (44.1KHz, 48KHz)	
KVM function (connect with PC, keyboard/mouse)	connect with PC	connect with keyboard/mouse
Switch Connection	yes	

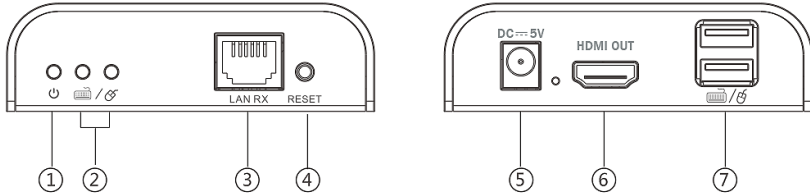| Input	1× HDMI 1× USB (to connect with PC)	2x USB (to connect with keyboard/ mouse) 1× RJ45
Output	1× RJ45	1× HDMI
Mechanical	**Transmitter-TX**	**Receiver-RX**
Housing	Metal enclosure	
Dimension	109.6 (L) x 89.5 (w) x 26.3 (H) mm	
Net weight	235g	237g
Power supply	DC5V 1A	
Power consumption	< 3.5W	< 3.5W
Operation temperature	0-60°C	
Storage temperature	-20-70°C	
Relative humidity	20-90% (no condensation)	

5. Penal Description

Transmitter unit (TX)

①   Power indicator
②   USB connection indicator
③   LAN signal output
④   Reset button

⑤   Power input (DC5V)
⑥   HDMI signal input
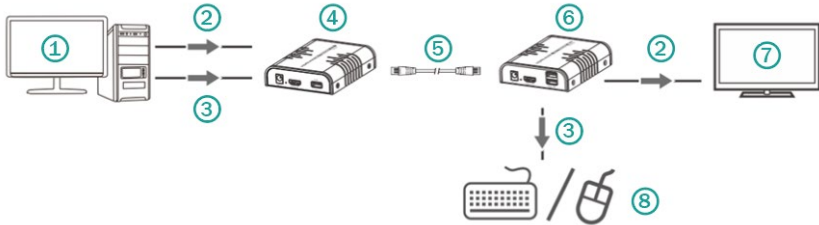⑦   USB port: to connect with PC

Receiver unit (RX)

①   Power indicator
②   USB connection indicator
③   LAN signal input
④   Reset button
⑤   Power input (DC5V)
⑥   HDMI signal output
⑦   USB port: to connect with keyboard/mouse
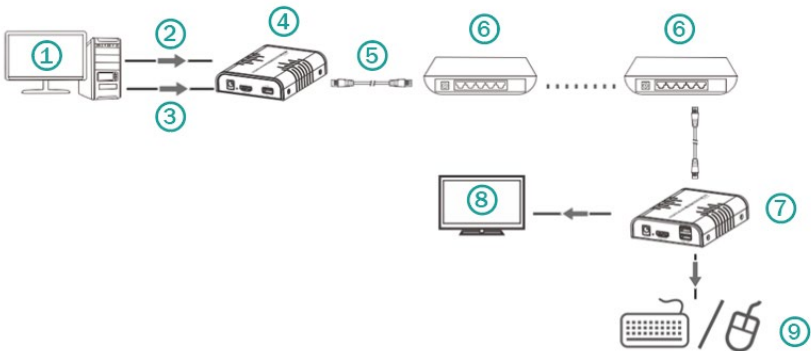
6. Connection

6.1 General Connection Diagram

Transmission distance can be up to 120 meters for 1080p over one CAT6

1	PC	5	cable
2	HDMI	6	Receiver RX
3	USB	7	TV
4	Transmitter TX	8	keyboard/ mouse

NOTE: Point to multi-point connection via switch is supported too, but under point to multi-point configuration, it is strongly recommended to operate KVM function on one receiver only at the same time.

6.2 Over IP Connection Diagram

1	PC	6	Switch
2	HDMI	7	Receiver RX
3	USB	8	TV
4	Transmitter TX	9	keyboard/ mouse
5	cable		

NOTE: Transmission distance depends on type of network cable, CAT5: 80m, CAT5E: 100m, CAT6: 120m.

7. Installation Requirements

1. HDMI source device (computer graphics card, DVD, PS3, HD monitoring equipment etc.).
2. HDMI display device like SDTV, HDTV, and projector with HDMI port.
3. UTP/STP CAT6/6A/7 cable, follow standard IEEE-568B.

8. Troubleshooting

Problems	Causes	Solutions
Non-power-connected/ all LED off	Maybe the power supply is not connecting well or use the wrong power adapter	Please check if the power supply is connecting well and the output voltage value is correct as recommended
No sound or sound issues	Maybe the HDMI connection is not well; the audio format is not supported by the displays; the	Please check if the HDMI cables are connecting well; if the audio format is supported by the displays, customers can change to the supported

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	source player set another port to output audio	audio format or the player`s audio output is setting HDMI audio output or not
No picture or picture flicker	Maybe the HDMI cable quality and UTP cable quality is not good enough or not connecting well	Please check if the HDMI and UTP connection is well or change another good quality HDMI 1.4 standard HDMI cable or UTP (CAT5e/CAT6 or higher is recommended) cable will solve the issue.

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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