DIGITUS®

4K HDMI Extender Set over IP/CAT

User Manual

DS-55124 • DS-55125 (RX unit) Rev. 2

Important Safety notice

Please read below safety instructions carefully before installation and operation:

1. Please pay attention to all the warnings and hints on this device
2. Do not expose this unit to rain, moisture and liquid
3. Do not put any stuff into the device
4. Do not repair or open this device without professional people's guidance
5. 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
6. Please note that our extender supports 5V power supply also, but the 5-Volt power port is alternative. Please do not connect PoE power supply and 5V power supply at the same time, choose each one would work

Introduction

HDMI over IP extender, takes the advantages of the latest transmission technology, extends your HDMI video/audio with the resolution of 4Kx2K 30Hz up to 120m (394 feet) via single network cable. Supports IR signal transmission, to control media playback of the signal source device at the display location. Supports PoE.
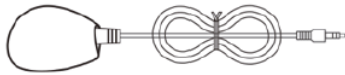
Package Contents

HDMI EXTENDER
sender TX x1pcs

HDMI EXTENDER
receiver RX x1pcs

User Manual x1pcs

IR OUT

IR blaster extension
cable*1pcs

IR IN

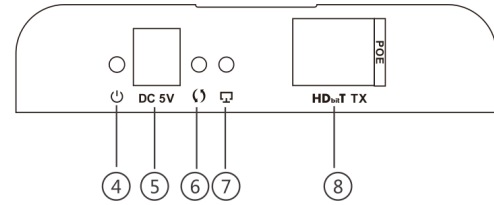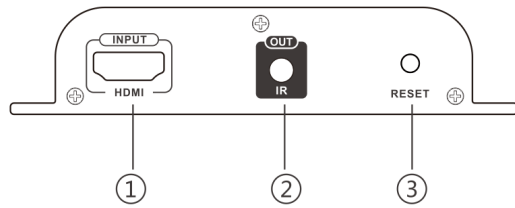IR receiver extension
cable*1pcs

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. Network cables: CAT 5/5e/6 network cables

4. Transmission length: CAT5 80m/CAT5E 100m/CAT6 120m

5. PoE powered device:

   Support and compliant with IEEE802.3af international standard switcher and other PoE power supply devices. The maximal wattage of the transmitter or receiver is 10w only.
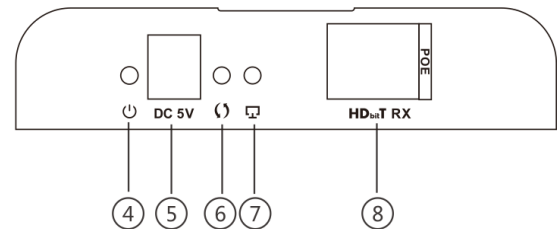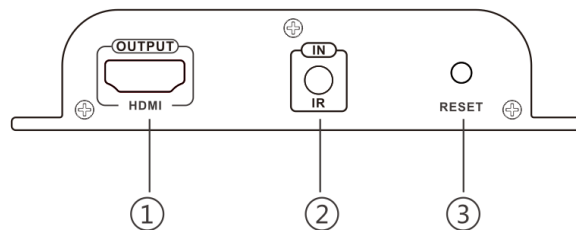
Panel Description

1. HDMI EXTENDER TX (Sender)

① Reset

② HDMI signal input

③ IR signal output to connect

    with blaster extension cable

④ Power Light

⑤ Power input (DC5V)

⑥ Data transmission light

⑦ Network link light

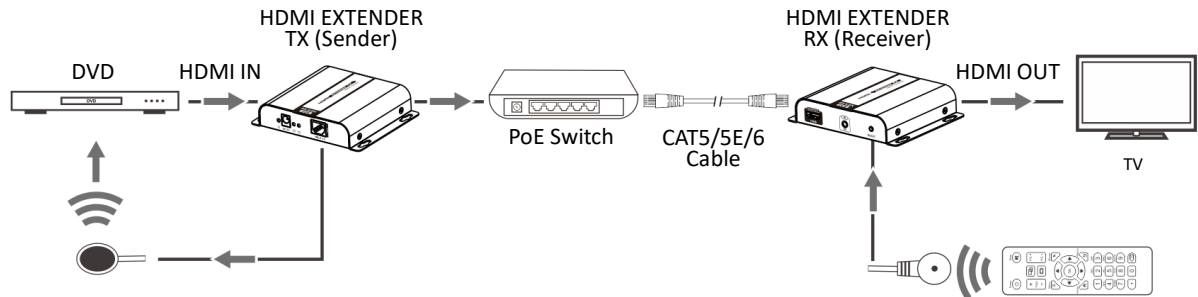⑧ HDbitT signal output (PoE Input)

2. HDMI EXTENDER RX (Receiver)

① Reset

② HDMI signal output

③ IR signal input to connect with

    IR receiver extension cable

④ Power Light

⑤ Power input (DC5V)

⑥ Data transmission light

⑦ Network link light

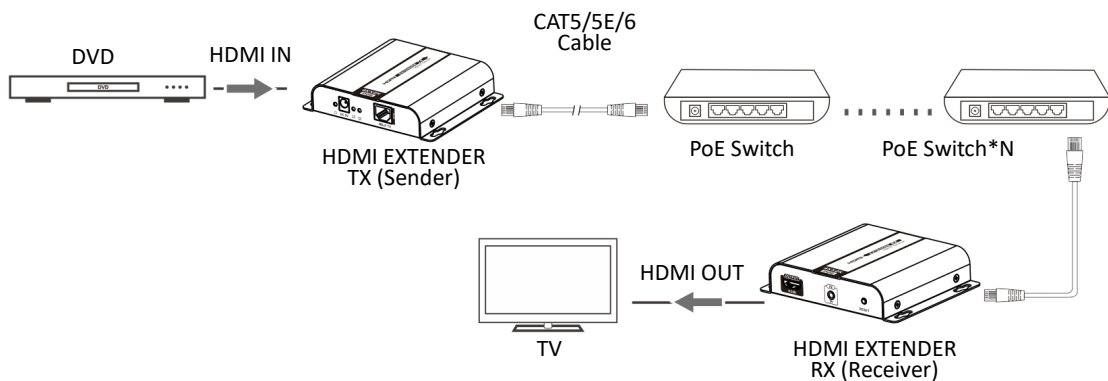⑧ HDbitT signal input (PoE Input)
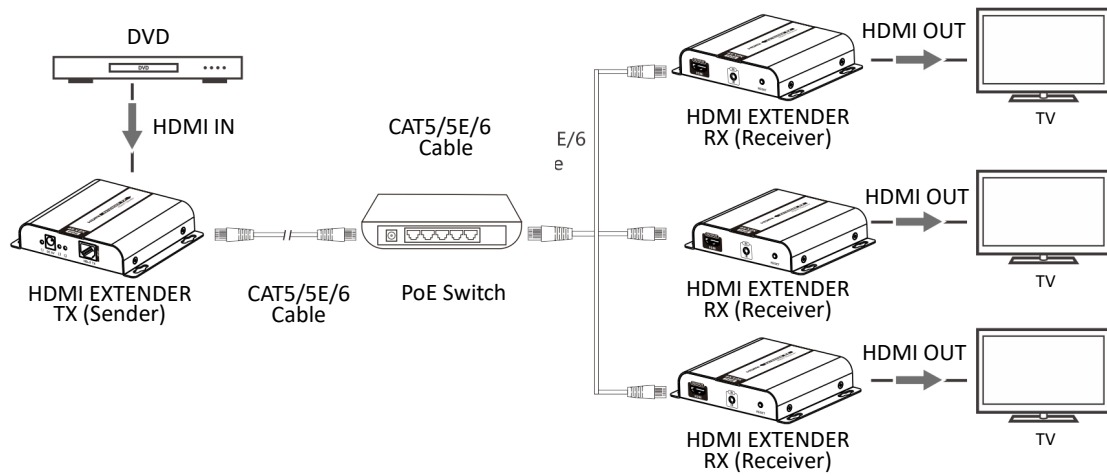
Installation Procedures

1. Connections

1.1. Point to Point connection: Up to 120 meters transmission distance over single CAT6 (High quality cable can reach 150 meters)

1.2. Router Connection: By using network router/repeater, realize unlimited extension.

1.3. One-to-many Connection: By using network router/switch, one

sender to several receivers, realize extender & splitter function.

DVD

HDMI IN

CAT5/5E/6
Cable

E/6
e

HDMI OUT

HDMI EXTENDER
RX (Receiver)

TV

HDMI EXTENDER
TX (Sender)

CAT5/5E/6
Cable

PoE Switch

HDMI OUT

HDMI EXTENDER
RX (Receiver)

TV

HDMI OUT

HDMI EXTENDER
RX (Receiver)

TV

Specification

Product type	4Kx2K HDMI over IP CAT5/5e/6 Extender with PoE
feature	Up to 120m, support one to many, 4K@30Hz
Max transmission rate	10.2Gbps
Color Depth	8bit
Supported video resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 4K×2K@24/25/30Hz
Supported audio formats	LPCM
HDMI connector	Type A, Female, 19-pin
RJ45 Connector	RJ45
Latency	<220ms
Input and Output TMDS signal	0.7~1.2Vp-p (TMDS)
Input and Output DDC signal	5Vp-p (TTL)

Adapter	PoE input	Support IEEE802.3af (Input power 10W)
	Voltage	DC5V/2A (Power adapter not included)
	Power consumption	TX<6W, RX<5W

ESD protection	1a (contact discharge) level 3 1b (air-gap discharge) level 3 International Standard: IEC61000-4-2
Operating temperature	(0°C ~ 60°C) 32°F ~ 140°F
Storage temperature	(-10°C ~ 70°C) -14°F ~ 94°F
Relative humidity	0 ~ 90% RH (Non-condensing)
Dimension	119(L) x 94(W) x 23.8(H) mm
Material	Metal housing
Weight	TX: 275g, RX: 275g
Color	black

FAQ

Q: TV display "Waiting for connection" on the right corner?

A: Please check if the power supply of TX (Sender) and switcher (if

used) is connected, and make sure connecting cable is firmly.

Q: TV display "Please check the TX input signal"?

A: Please check if there is a HDMI signal input of TX

Try to connect the signal source directly to display device to see if there is signal output from source device or change the signal source, HDMI wire and try again

Q: When playing 4Kx2K source, screen is back without any content?

A: Make sure both TV and HDMI cable support HDMI1.4.

Q: Display not fluent, not stable?

A: Please check the cable length between the TX to switch, the switch to the RX and the connection between each level is within the required range.

Click the "Reset" button on the TX/RX front panel, reset and reconnect.

Disclaimer

The product name and brand name may be registered trademark of related manufacturers.TM and ® may be omitted on the user manual. The pictures on the user manual are just for reference, and there may be some slight difference with the real products. We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.