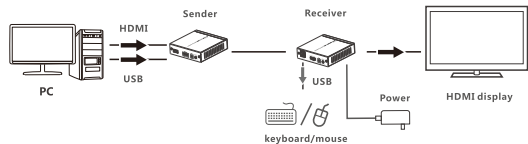


## 2. Connections



## 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's HDMI IN has signal input and make sure RX's 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.

## • Specification

Items		Specification	
Power supply	Voltage/Current	DC12V/1A	
	Power consumption	8W	
HDMI performance and interface	HDMI compliance	HDMI 1.4	
	HDCP compliance	HDCP 1.4	
HDMI performance and interface	HDMI resolution supported	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 4Kx2K@30Hz	
	Supports audio formats	LPCM, DTS-HD, Dolby True HD	
HDMI performance and interface	Maximum transfer rate	10.2Gbps	
	Input and output TMDS signal	0.7~1.2Vp-p(TMDS)	
	Input and output DDC signal	5Vp-p(TTL)	
	Input cable length supported	≤5m(AWG26 HDMI1.3cable standard)	
	Output cable length supported	≤5m(AWG26 HDMI1.3cable standard)	
Transmission length	CAT5E	60m	Up to 1080p@60Hz 36bpp
		35m	1080p@60Hz 48bpp, 1080p@60Hz 3D, 4Kx2K@30Hz
	CAT6	70m	Up to 1080p@60Hz 36bpp
		40m	1080p@60Hz 48bpp, 1080p@60Hz 3D, 4Kx2K@30Hz
Protection level	Electrostatic protection of the whole machine	1a Contact discharge level 3	
		1b Air discharge level 3	
		Standard: IEC61000-4-2	

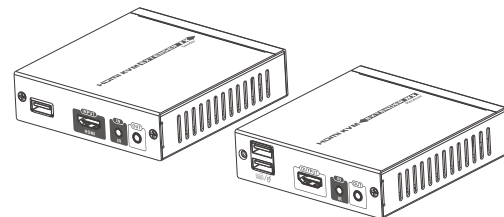
IR passback	Bi-direction	
Operating environment	Working temperature	0~50°C
	Storage temperature	-10~70°C
	Humidity (no condensation)	0~90%
Body properties	Dimension	99.45(L) x 94.50(W) x 25.70(H)mm
	Material	Aluminium alloy material + Iron alloy material
	Processing technology	Sandblasting
	Color	black
	Weight	Tx : 220g Rx : 230g
Reliability	Mean time between failures (MTBF)	>30000 Hours

## Disclaimer

The product name and brand name may be registered trademark of related manufactures. ™ and ® may be omitted on the user manual. The pictures in this user manual are just for reference. The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. We reserve the rights to make changes without further notice to a product or system described herein to improve reliability, function or design.

## HDMI HDBaseT KVM Extender

## User manual



Thank you for purchasing this product. For optimum performance and safety, please read the instructions carefully and keep the manual for future reference.

## • Important safety notice

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 connected cables when it is in using.
- \* Make sure the specification matched if using 3<sup>rd</sup> party DC adapters.

## • Introduction

This HDBaseT single network cable KVM extender transmits HDMI signal up to 70meters over cat6 fluently and clearly. It is lossless in signal and supports 3D, 24bits deep color, CEC, HDCP and ultra HD 4KX2K@30Hz. 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, 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\*1pc



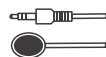
HDBaseT to HDMI RX receiver\*1pc



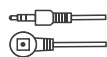
DC12V/1A \*2pcs



USB Cable x 1pc



IR blaster extension cable\*1pc



IR receiver extension cable\*1pc



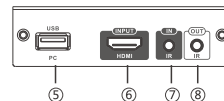
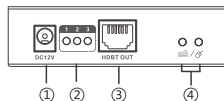
User manual\*1pc

## • Installation Requirements

1. Source equipment :  
HDMI source device (computer graphics card, DVD, PS3, 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

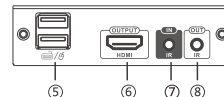
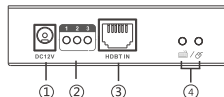
## • Panel Description

1. Transmitter Unit (TX)



- |   |  |
|---|--|
| ① DC12V input                           | Connect with the power supply  |
| ② Transmission signal indicator         | <ol style="list-style-type: none"> <li>1. The first led: It turn on when power on.</li> <li>2. The second led: It turn 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.</li> <li>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.</li> </ol> |
| 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"> <li>1. The first led: It turn on when power on.</li> <li>2. The second led: It turn 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.</li> <li>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.</li> </ol> |
| ③ HDBT input                            | HDBaseT signal input   |
| ④ USB connection indicator              | Indicates that the signal is connected properly  |
| ⑤ USB port                              | Connect with keyboard and mouse  |
| ⑥ HDMI output                           | 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 receiver.  |

## • Installation Procedures

1. To make a Cat5e/6 network cable



Follow the standard of IEEE-568B

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