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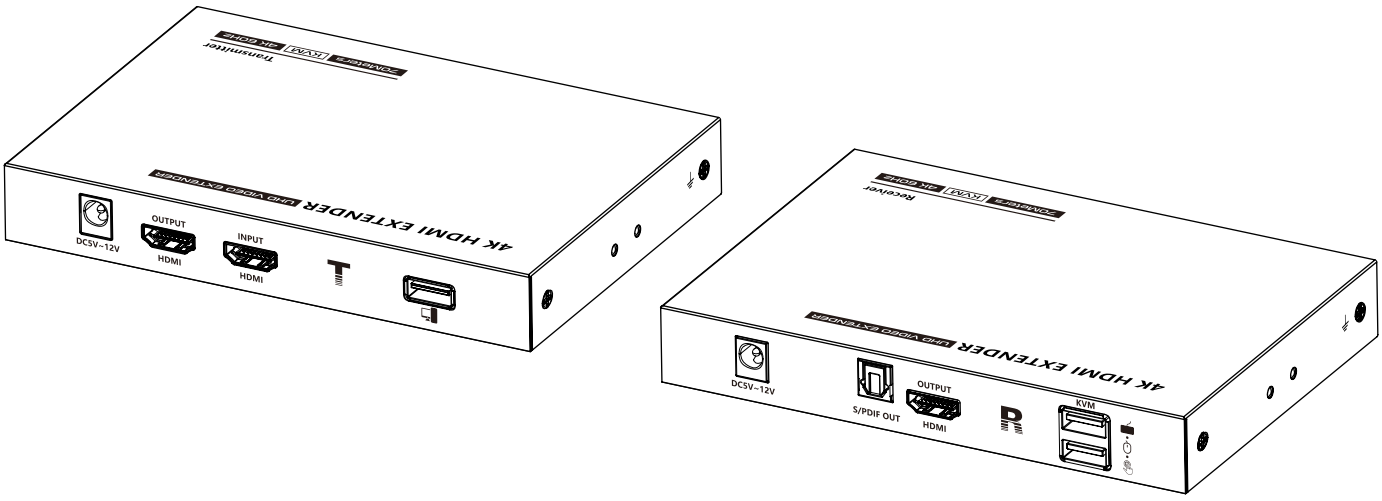
Model Number 10069
70M HDMI KVM Point to Point Extender 4K@60Hz

User Manual

HDMI EXTENDER

KVM Point to Point Extender



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

Important Safety Notice

1. Do not mix up HDMI to RJ45 transmitter and RJ45 to HDMI receiver before installation.
2. Do not hot plug when it is working.
3. Use DC5V-12V power supply only. Make sure specification matched if using 3rd party adapters.
4. Static electricity will cause damage of the device, please do ESD protection when using the device.

Introduction

This HDMI Extender includes a transmitter unit and a receiver unit, allows HDMI signal to be transmitted up to 70 meters at 4K resolution using a CAT6/6A/7 network cable. It is perfect for outdoor advertising, video clips, monitor system, home entertainment, and conference, etc.

Features

1. Zero latency.
2. 4K@60Hz HDMI signal can be transmitted 70 meters through a CAT6/6A/7 network cable.
3. The receiver can extract the digital audio from the transmitter through the S/PDIF port.
4. Support multiple audio formats (LPCM/DTS-HD/DTS-Audio/Dolby Digital 5.1CH).
5. Supports HDR(YUV4:4:4), EDID passback.
6. Transmitter support one HDMI loop-out.
7. Support KVM function, compatible with mouse, keyboard and touch screen control.
8. Lighting protection, surge protection, ESD protection.

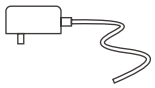
Package Contents



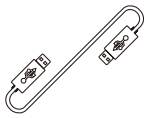
Transmitter unit x1pc



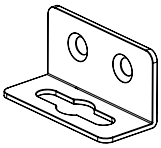
Receiver unit x1pc



DC5V/2A x2pcs



USB Cable x1pc



Mounting brackets x4pcs



Screw x10pcs



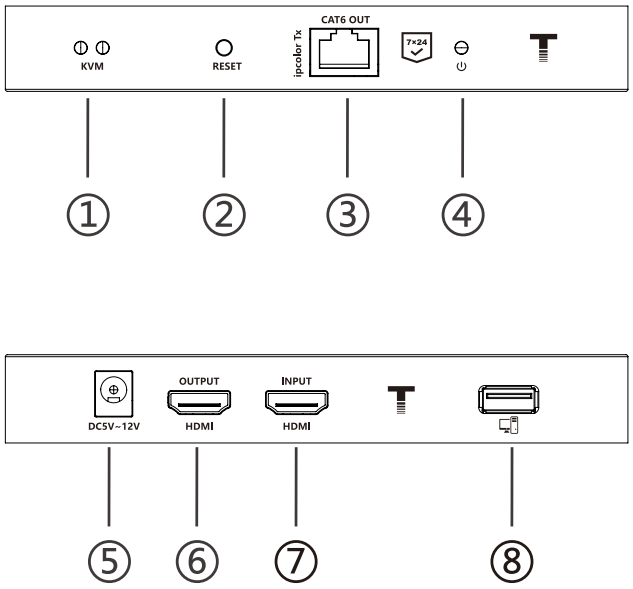
User manual x1pc

Installation Requirements

1. HDMI source device (compute graphics card, DVD, PS3,)HD monitoring equipment etc.
2. HDMI display device like SDTV, HDTV, projector with HDMI port.
3. UTP/STP CAT6/CAT6A/CAT7 cable. Follow standard IEEE-568B, It is recommended to select a network cable with less loss and crosstalk.

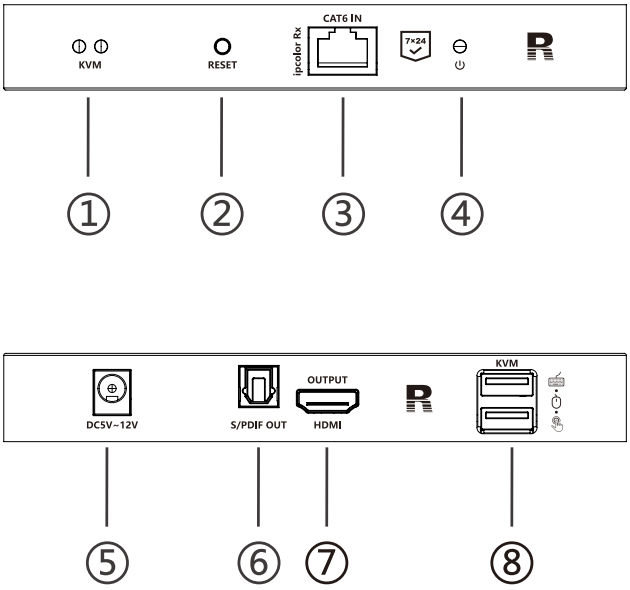
Interfaces

1. Transmitter (TX)



①	KVM Light	The left indicator lights on when device connected with computer. The right indicator lights off when there is no signal transmission, flashes when there is a signal transmission
②	Reset button	Press to restart the device
③	RJ45 signal output	Connect with network cable
④	Power/Signal indicator	When there is power but no HDMI signal, the indicator will flash. When there is HDMI signal, the indicator will light solid blue
⑤	DC5V-12V input	Connect with DC5V-12V power adapter
⑥	HDMI output	Connect with HDMI display device
⑦	HDMI input	Connect with the source device
⑧	USB-A port	Connect with computer

2. Receiver (RX)



①	KVM Light	The mouse/keyboard/touch screen is connected to the USB port, the indicator light is on
②	Reset button	Press to restart the device
③	RJ45 signal input	Connect with network cable
④	Power/Signal indicator	When there is power but no HDMI signal, the indicator will flash. When there is HDMI signal, the indicator will light solid blue.
⑤	DC5V-12V input	Connect with DC5V-12V power adapter
⑥	S/PDIF out	Output digital audio signal
⑦	HDMI output	Connect with HDMI display device
⑧	USB-A port	Connect with keyboard, mouse and touch screen

• Specification

Items		Specification
Power Supply	Voltage/Current	DC5V-12V
	Power consumption	TX < 4W RX < 4W
HDMI Performance And Interface	HDMI compliance	HDMI 2.0
	HDCP compliance	HDCP 2.2
	HDMI resolution	480i@60Hz、480p@60Hz、576i@50Hz、576p@50Hz、720p@50/60Hz、1080i@50/60Hz、1080p@50/60Hz、3840x2160@24/25/30/50/60Hz、4096x2160@24/25Hz、1280x960、1280x800、1280x768、1680x1050、1360x768、1366x768、1600x900、1024x768、800x600
HDMI Performance And Interface	Supports audio formats	LPCM/DTS-HD/DTS-Audio/ Dolby Digital 5.1CH
	Input and output TMDS signal	0.7~1.2Vp-p(TMDS)
	Input and output DDC signal	5Vp-p(TTL)
	Input cable length	≤8m(AWG24)
	Output cable length	≤8m(AWG24)
Transmission Distance	CAT6/6A/7	≤70m
Protection Level	Electrostatic protection of the whole machine	1a Contact discharge level 2 1b Air discharge level 3 Implementation of the standard: IEC61000-4-2
Operating Environment	Working temperature	-20~60℃
	Storage temperature	-30~70℃
	Humidity (no condensation)	0~90%RH
Body Properties	Dimension	153.0(L) x 105.5(W) x 22.0(H) mm
	Material	Iron
	Color	Black
	Weight	TX: 348.0g RX: 348.0g

- **FAQ**

Q: There is no output on screen when all connections are correct?

A: 1) Please make sure the HDMI cables supports 4K×2K if the output signal from the source device is 4K×2K resolution.

2) Please check and make sure the network cable insert to the RJ45 port well.

3) Restart the transmitter or receiver by pressing the reset button.

Q: Black screen happened on the display/monitor?

A: 1) Check if the length of the cable is within the specified range.

2) Reset the transmitter to re-built the connection.

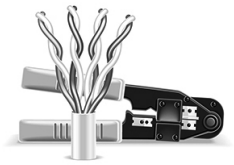
Q: The display shows unusual color or no sound?

A: 1) Reset the transmitter or receiver to re-built the connection.

2) Check if the HDMI cables are connected well.

3) Reconnect the network cable.

Follow the standard of IEEE-568B, It is recommended to select a network cable with less loss and crosstalk.



1-Orange/white	2-Orange	3-Green/white
4-Blue	5-Blue/white	6-Green
7-Brown/white	8-Brown	

3. Connection instruction

1) Connect the source device to the HDMI in port of the transmitter with an HDMI cable, and connect the HDMI out port of the receiver to the display device with another HDMI cable.

2) Connect the CAT out port of the transmitter and the CAT in port of the receiver via a network cable (CAT6/CAT6A/CAT7).

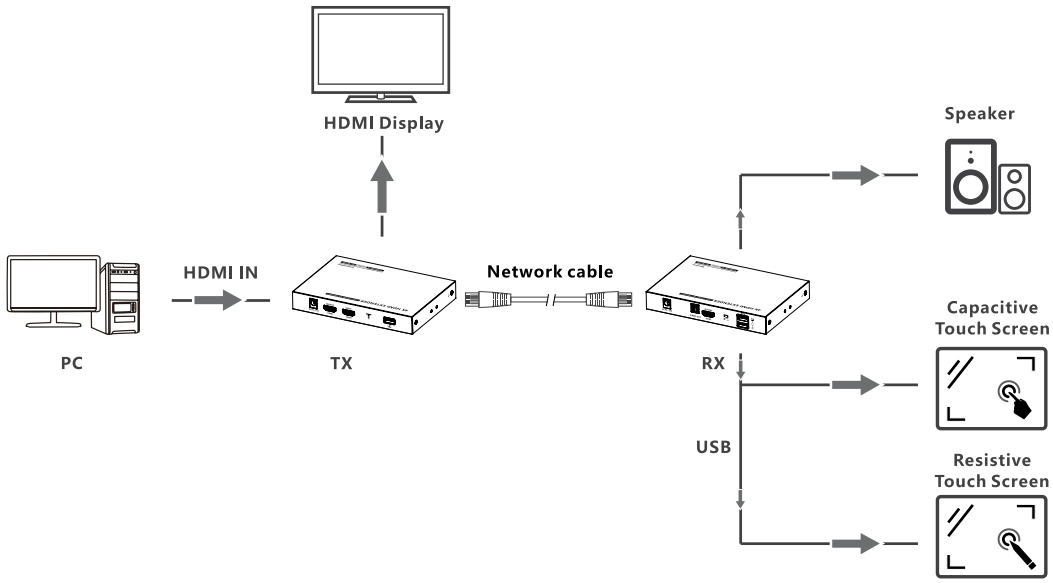
3) If using HDMI loop out, connect the display device to the HDMI OUT port of the transmitter.

4) It takes about 25 seconds to display the image after the product is successfully connected.

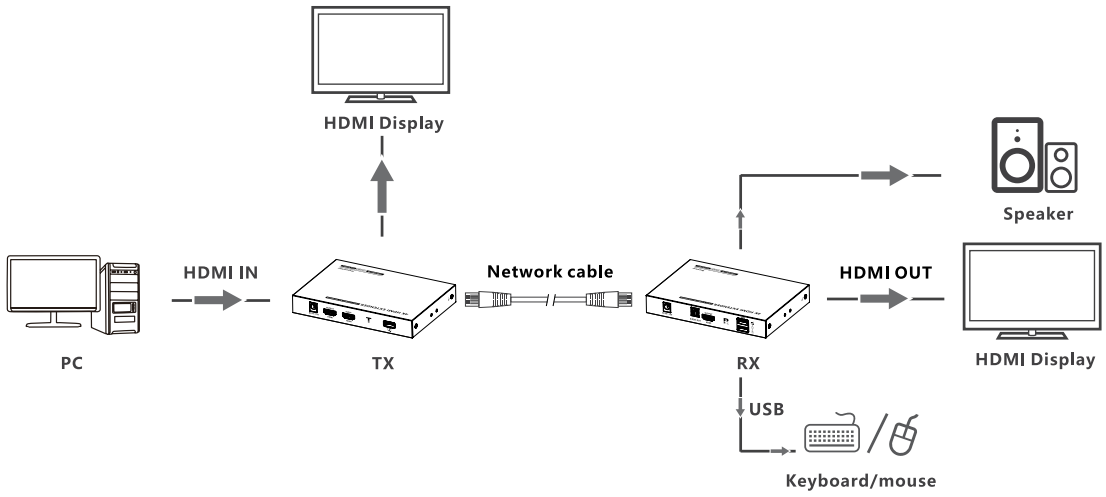
[NOTE]: It is recommended to use a length range within 2~70m network cable. If the cable is too short, there may be no display output because the signal is too strong. If the cable is too long, the output may be with poor quality.

- **Installation Procedures**

1. Touch screen connection



2. Mouse and keyboard connection



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