

KanexPro®

4K60Hz HDMI KVM extender
over Cat6 w/ USB 2.0 70M



MPN: EXT-HDMIKVM70M



• Important Safety Notice

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

• Introduction

The KanexPro EXT-HDMIKVM70M HDMI extender kit features a transmitter and receiver combo which allows for high quality 4K@60Hz video and audio to be transmitted up to 70 meters over a single Cat6/6a network cable. The KVM feature in this kit also transmits USB 2.0 signals which can be used to control both a keyboard and a mouse.

• 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. Supports audio formats (LPCM/DTS-HD/DTS-Audio/

- Dolby Digital 5.1CH).
5. Supports HDR (YUV 4:4:4), EDID passback.
6. Transmitter support one HDMI loop-out.
7. Support bi-directional IR passback function (20-60KHz).
8. Lightning Protection, Surge Protection, ESD Protection.

• Package Contents

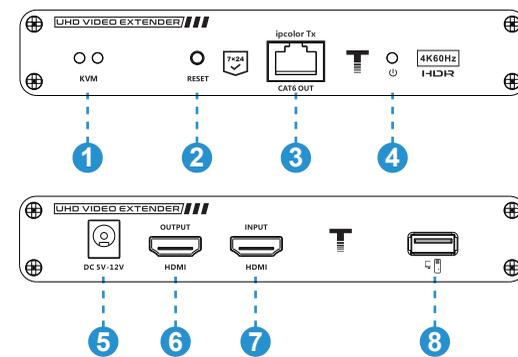
1. 1x Transmitter Unit
2. 1x Receiver Unit
3. 2x DC5V/2A power supply
4. 1x USB Cable
5. 1x User Manual
6. 8x Mounting Brackets
7. 18x Screw

• Installation Requirements

1. HDMI source device (compute graphics card, DVD, PS3), HD monitoring equipment.
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.

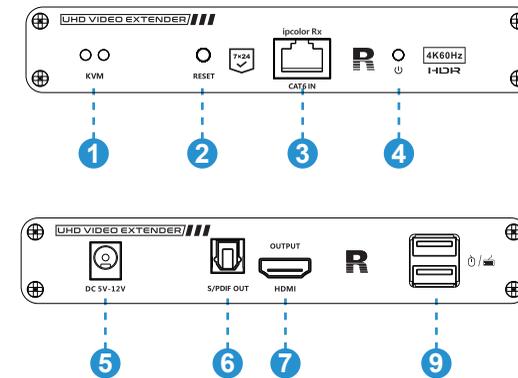
• Interfaces

1. 1x Transmitter (TX)



1	KVM Light	Connected to the computer, indicator light is on; No signal transmission, the indicator light is off; This is the signal transmission, the indicator light flashes
2	RESET BUTTON	Press to restart the device
3	RJ45 SIGNAL OUTPUT	Connect with network cable
4	POWER/SIGNAL INDICATOR	When there is power and 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 HDMI source device
8	USB-A Port	Connect with Computer

2. 1x Receiver (RX)

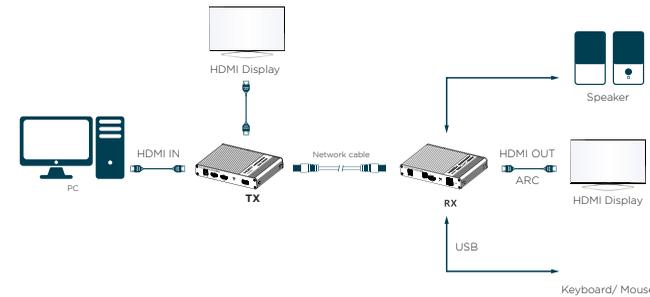


1	KVM Light	The mouse/keyboard is connected to the USB port, the indicator light is on
2	RESET BUTTON	Press to restart the device
3	RJ45 SIGNAL OUTPUT	Connect with network cable
4	POWER/SIGNAL INDICATOR	When there is power and no HDMI signal, the indicator will flash, when there is HDMI signal, the indicator 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 and mouse

• Installation Procedures

1. Connection

one to one:



Follow the standard of IEEE-568B, It is recommended to select 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 | |

2. 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 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) Plug the power supply into the device to get started.

[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 have poor quality.

• FAQ

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

A: 1) Please make sure the HDMI cables supports 4K x 2K resolution.

2) Please check and make sure the network cable is inserted into the RJ45.

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 or rebuild the connection.

Q: The display shows unusual color or no sound?

A: 1) Reset the transmitter or receiver or rebuild the connection.

2) Check if the HDMI cables are connected well.

3) Reconnect the network cable.

• Specifications

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 Performance and Interface	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
	Support audio formats	LPCM/DTS-Audio/ Dolby Digital 5.1CH
HDMI Performance and Interface	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 Contract discharge level 3 1B Air discharge level 3 Implementation of the standard: IEC61000-4-2
Operating Environment	Working Temperature	-20-60°C
	Storage Temperature	-30-70°C
	Humidity (no condensation)	0-90%RH
Body Properties	Dimensions	150.0(L) x 107.0(W) x 28.4(H)mm
	Material	Aluminum alloy + crystal panel
	Treatment process	Grit blast
	Color	Black
Weight		TX: 260g RX:260g

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