



## **KA284 HDMI KVM MATRIX EXTENDER 4K60HZ 120M**



### **Introduction**

This 4K@60Hz HDMI over IP extender kit, including a transmitter and a receiver, realizing switching, extending and distributing 4K@60Hz audio and video signals via the IGMP switch. The HDMI signal can be extended up to 120 meters over CAT 6 or higher-level networking cables. Supports one-to-one, one-to-many, many-to-one and many-to-many connection. It also supports KVM functions, and can be widely used in audiovisual conference, transportation control center, radio and television, education and training and other fields.

**\*\*For one to many connection, using normal gigabit network switch**

**\*\*For many-to-one or many-to-many connection, using IGMP network switch**

## Features

1. Built on ipcolor STREAM™ technology to deliver high-definition and low-latency transmission.
2. Supports up to 4096 x 2160@60Hz resolution, backwards compatible.
3. Compatible with Cat5e/6 or higher-level networking cables transmission distance of Cat6 cable is 120 meters.
4. Supports one-to-one, one-to-many, many-to-one and many-to-many connection through the IGMP gigabit switch.
5. Supports KVM control signal passback.
6. Supports 256 signal source inputs and 256 signal outputs.
7. Signal sources can be switched via the control software for flexible many-to-many matrix configuration.
8. Firmware upgrading via Micro USB port.
9. Lightning protection, surge protection, ESD protection.
10. Supports stable 24/7 operation.

## Technical Parameters

Item	Transmitter (Tx)	Receiver (Rx)
Video		
Input interface	1x HDMI	1x RJ45
Output interface	1x RJ45	1x HDMI
HDMI length	≤ 5m	≤ 5m
Maximum transfer rate	18Gbps	
Compatibility	HDMI 2.0	
	HDCP 1.4/HDCP 2.2	
Resolutions	4096x2160@24/30/50/60Hz, 3840x2160@24/30/50/60Hz, 1080P@24/25/30/50/60Hz, 720P@50/60Hz, 576P@60Hz, 480P@60Hz, 1920x1200, 1680x1050, 1600x900, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600	
Connection types	One-to-one connection One-to-many connection Many-to-one connection Many-to-many connection Switch cascading	
Transmission distance	CAT5 80m / CAT5E 100m / CAT6 120m	
Transmission latency	1080P: 80~110ms 4K@60Hz: 120~170ms	
Audio signal		
Input interface	1x HDMI	1x RJ45
Output interface	1x RJ45	1x HDMI
HDMI output	LPCM 2.0	
USB devices		
USB	Mouse, keyboard, touch screen	
Power		
Power Supply	DC 5V/1A	DC 5V/1A
Power Consumption	TX ≤ 3.5W	RX ≤ 2.5W
Operating Environment		
Working temperature	- 20°C~60°C	
Storage temperature	- 30°C~70°C	
Humidity	0~90%RH (no condensation)	
Physical Properties		
Housing	Aluminium (Top cover); Iron(Bottom cover)	
Weight	240g	243g
Color	Black	
Dimensions	109.6(L)x89.5(w)x26.3(H)mm	
Protection	ESD protection 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2	
	Lightning protection, Surge protection	

## Panel Description

### Transmitter (Tx)



1.	Power indicator	The indicator will turn on when power up
2.	KVM indicator	1) Light flashing: The KVM data is transmitting 2) Steady on: The computer and the USB port are connected
3.	Micro USB port	Used for firmware upgrading
4.	RJ45 signal output	Connect with the network cable
5.	Reset button	1) Press to restart the device 2) Press and hold for 5 seconds to restore factory settings
6.	Power input	Connect with DC5V/1A power adapter
7.	HDMI input	Connect with the source device
8.	USB port	Connect to the computer with USB cable

### Receiver (Rx)



1.	Power indicator	The indicator will turn on when power up
2.	KVM indicator	1) Light flashing: The KVM data is transmitting 2) Steady on: The mouse, the keyboard and touch screen are connected
3.	Micro USB port	Used for firmware upgrading
4.	RJ45 signal input	Connect with the network cable
5.	Reset button	1) Press to restart the device 2) Press and hold for 5 seconds to restore factory settings
6.	Power input	Connect with DC5V/1A power adapter
7.	HDMI output	Connect with HDMI display device
8.	USB port	Connect with mouse, keyboard and touch screen

# 4K60 UHD Resolution, Ultra-Economical Solution for Your Remote Control

Ultra-Long Transmission Range, Reliable Performance

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**Surveillance Control Room**

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**School Server Room**

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**Enterprise Data Center**

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**Work & Gaming at Home**

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## Support KVM and Touch Screen Control

Transmitting keyboard & mouse data via LAN, easy to control destination screens remotely.  
Support touch screen control, bluetooth keyboard & mouse and e-Sports keyboard & mouse.



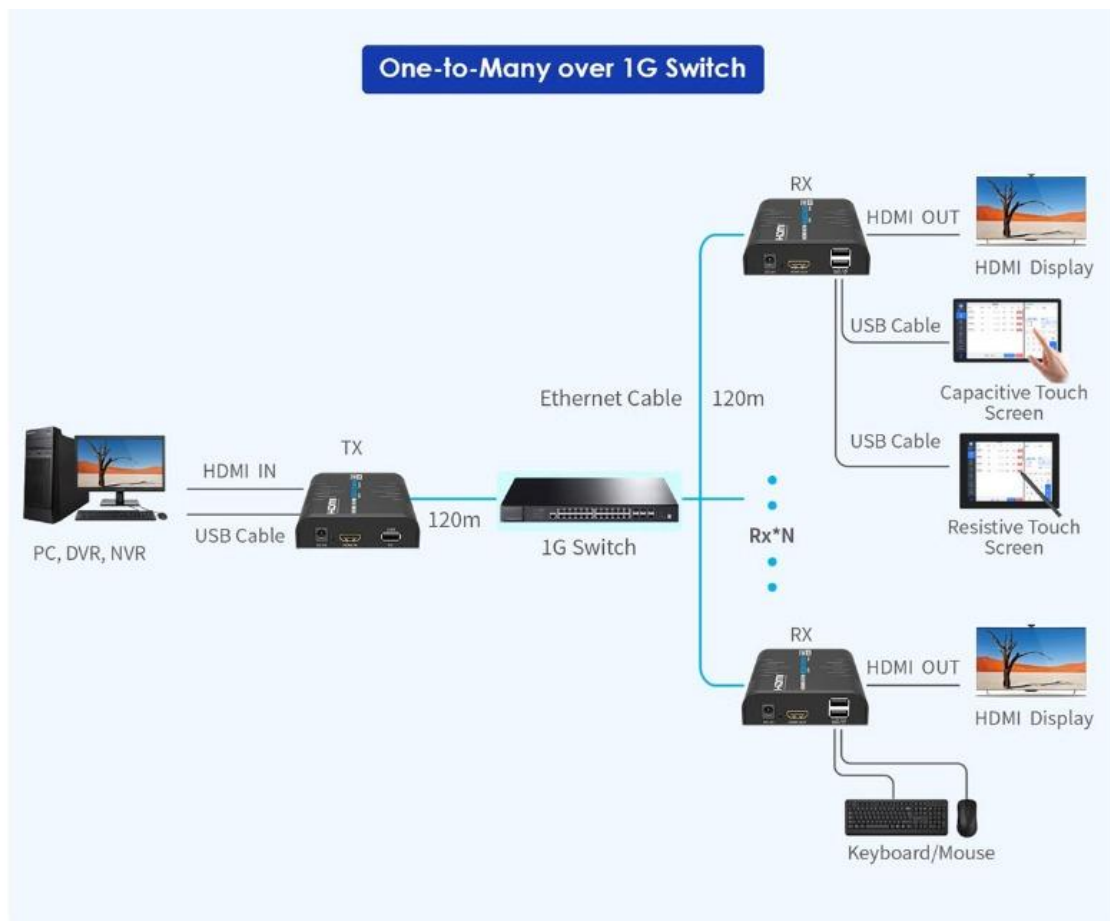
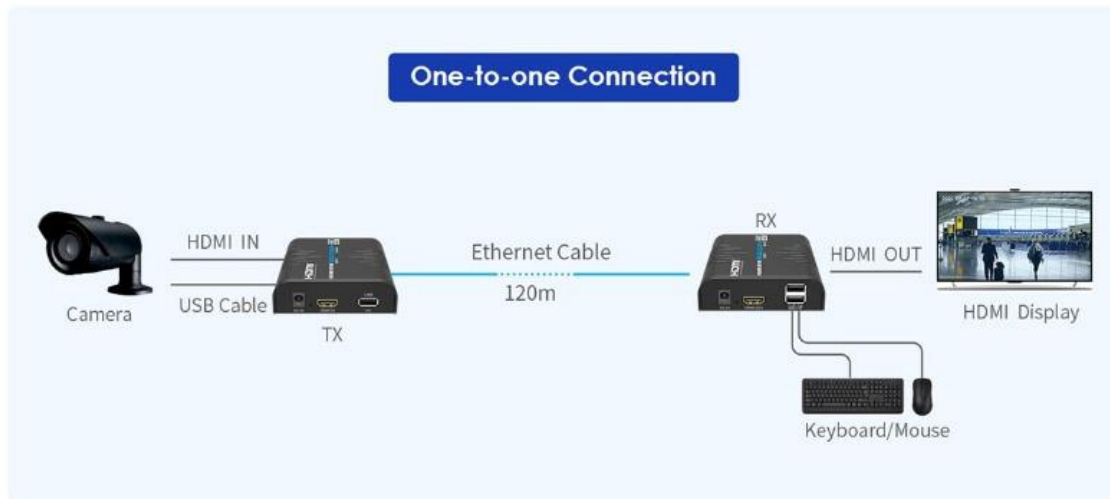
**Transmitter Support Touch Screen  
at the Extended Location**



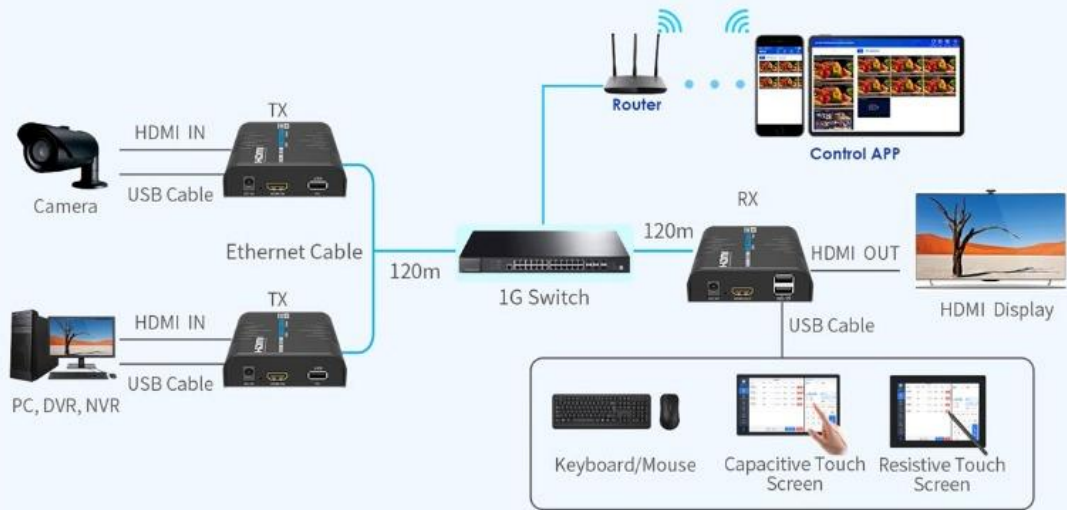
**Remote Control Your PC with  
Keyboard and Mouse**



## Connection Diagrams



## Many-to-One with Free Control APP



# Many-to-many Connection with Free APP Control

