# HDMI & USB Keyboard Mouse CAT5 Extender ITEM NO: HKM01E HDMI & USB Keyboard Mouse CAT5e Extender



The HKM01E is design to extend full HDMI & USB keyboard mouse over one CAT5e/6 up to 150 meters. Transmitter built in local HDMI monitor output for local monitor and provides superior video quality up to 1920 x 1200 resolutions. With 2 USB port to extend keyboard and mouse signal over same CAT5e/6 cable. It is optimized for applications at security monitoring and multimedia display and digital signage, home network integration, and industrial control, hospital, education.

#### Features:

- Extend HDMI and USB keyboard mouse signals over one CAT5e/CAT6 cable.
- Supports resolutions full HD up to 1920x1080p@60hz.
- Transmission range up to 150M over CAT5e, 160M over CAT6.
- HKM01ET transmitter built in HDMI loop output.
- HKM01ER receiver unit with 2 ports USB devices to extend USB keyboard and mouse.
- Perfect for control remote machines and security monitoring systems, digital signage application.
- Option model: SR01 signal repeater for longer distance application.

### Installation View:



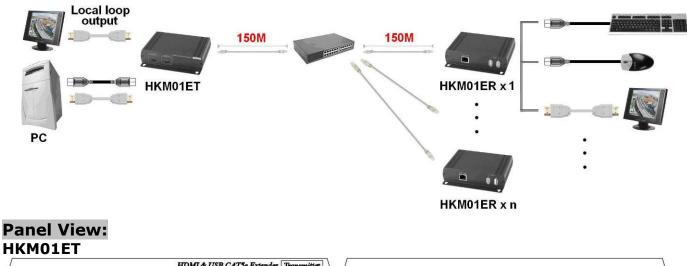
## **Optional Model: SR01 Signal Repeater (order separately)**

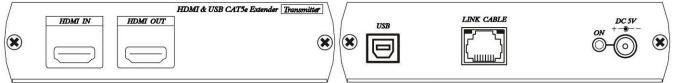
- Extend data signal for an additional 120meters.
- Application for HKM01E signals for extra long range transmission.
- Ability to cascade connection with multiple SR01 for long range transmission
- Built in LED status indication.
- External power required.
- Plug and play for easy installation.

### Work with HKM01E CAT5 Extender:

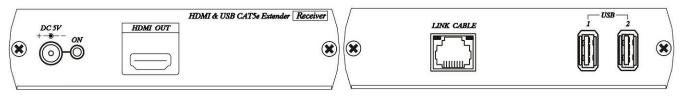


HDMI over IP Solution: support point to many connections via network switch:





#### HKM01ER



## **LED Indication Status:**

Front Panel Green LED: Power on/off

RJ45 LED: Orange Flash: Data transmission Green On: Linking

## **RJ45 Define:**

Link Cable (TIA/EIA-568-B)

1.	Orange-white	Data 1 +
2.	Orange	Data 1 -
3.	Green-white	Data 2 +
4.	Blue	Data 3 +
5.	Blue-white	Data 3 -
6.	Green	Data 2 -
7.	Brown-white	Data 4 +
8.	Brown	Data 4 -

### **Computer IP Address Setting:**

System default IP address is 192.168.168.55 for HKM01ET, 192.168.168.56 for HKM01ER (subnet mask 255.255.255.0), Your computer must set in same subnet mask to enter the web setup page.

To change the IP address of computer please follow below step: (based on Windows XP):

Right click on "My Network Place"  $\rightarrow$  "Properties" then right click on "Local Area Connection"  $\rightarrow$  "Properties" then double click on "Internet Protocol (TCP/IP)" to setting as below:

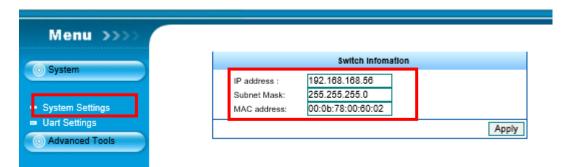
(IP address 192.168.168.1, sub mask 255.255.255.0)

		🕹 Local Area Connection Properties 🛛 😨 🔀	Internet Protocol (TCP/IP) Properties
		General Authentication Advanced	General Alternate Configuration
My Network		Connect using:	You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for
Places	Open	SCom 3C920 Integrated Fast Etherne	the appropriate IP settings.
	Explore	This connection uses the following items:	Obtain an IP address automatically
	Search for Computers	Client for Microsoft Networks	O Use the following IP address:
Interne	Map Network Drive	<ul> <li>File and Printer Sharing for Microsoft Networks</li> <li>QoS Packet Scheduler</li> </ul>	IP address: 192.168 . 168 . 1
Explore	Disconnect Network Drive	Internet Protocol (TCP/IP)	Subnet mask: 255.255.255.0
			Default gateway.
	Create Shortcut Delete	Description	Obtain DNS server address automatically
	Rename	Transmission Control Protocol/Internet Protocol. The default	O Use the following DNS server addresses:
		wide area network protocol that provides communication across diverse interconnected networks.	Preferred DNS server:
<ul> <li></li> </ul>	Properties	Show icon in notification area when connected	Alternate DNS server.
		<ul> <li>Stow con in notification area when connected</li> <li>Notify me when this connection has limited or no connectivity</li> </ul>	
Cocal Area Connection			Advanced
Connected, Firewalled			
		OK Cancel	OK Cancel

### Login in to the web:

Use CAT5e cable to connect transmitter/receiver RJ45 port to PC LAN port, enter the IP address of TX/RX in the web browser.

After login to the web, click System Settings you can change IP address, Subnet Mask, MAC address at System page, then click Apply to finish setting.



## Cable:

Video Link cable using high quality CAT5e UTP/STP/FTP or CAT6 UTP cable.

#### **Caution:**

- 1. This device not support wireless and gaming keyboard mouse.
- 2. The cabling must away from any equipment with electromagnetic wave, i.e.: microwave, radio equipment, high voltage.

### Package Include:

HKM01ET Transmitter x 1 HKM01ER Receiver x 1 USB A to B cable x 1 DC 5V 2Amp power adapter x 2

#### **Specification:**

ITEM NO.	HKM01ET	HKM01ER	
	640x480@60Hz, 800x600@60 Hz, 1024x768@60 Hz,		
Support Possilution	720x480p@60 Hz, 720x576p@50 Hz, 1280x720p@60 Hz,		
Support Resolution	1280x720p@50 Hz, 1920x1080i@60 Hz, 1920x1080i@50 Hz,		
	1920x1080p@60Hz		
Transmission	CAT.5e/6 : 120M (Max)		
Distance			
HDMI Connector	HDMI Type A x 2	HDMI Type A x 1	
USB Connector	USB Type B x 1	USB Type A x 2	
Link Connector	RJ45 x 1		
Power Supply	DC 5V 2A		
Power Consumption	1.2Amp (Max.)	0.8Amp (Max.)	
Temperature	Operation: 0 to 55°C, Storage: -20 TO 85°C, Humidity: up to 95%		
Dimensions mm	125 x 125 x 30	125 x 125 x 30	
Weight g	355	350	

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Rev.A