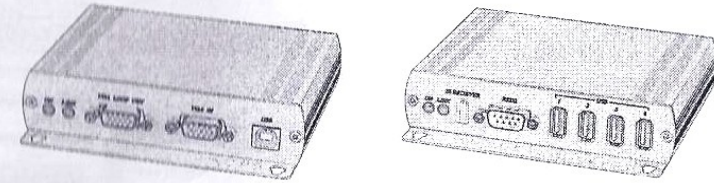


VGA & USB, AUDIO, RS232, IR CAT5 Extender

ITEM NO.: **VGA & USB with Stereo Audio, RS232, and IR CAT5 Extender**



The VKM03 VGA, USB with Stereo Audio, RS232, and IR CAT5 extender design for extends all signals over one CAT5 up to 140 meters, with local VGA monitor output. It provides superior video quality up to 1920 x 1080 resolutions, and using cost effective Cat5e cable, instead of VGA, audio, RS232 cables, for an easy, neater and reliable installation. Using a standard Gigabit Ethernet LAN system and add a Gigabit switch could do multiple display. It is optimized for applications at digital signage, home network integration, and industrial control, hospital, education, security, and KVM extension.

Features:

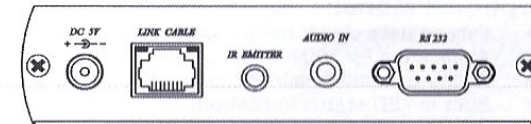
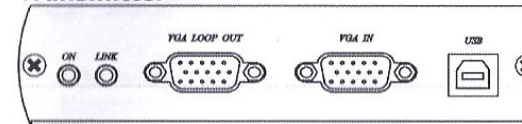
- Extend VGA, stereo audio, RS232, IR and USB signals over one CAT5E/CAT6 cable.
- USB port support USB 2.0, USB 1.0 & USB 1.1
- Full Duplex data communication.
- Transmitter unit built in VGA loop output.
- Receiver unit with 4 ports USB devices, to extend USB 2.0 peripheral devices, such as flash disk, hard disk, keyboard, mouse, etc.
- Supports up to 1920 x 1080.
- **Transmission range up to 140 meters over CAT5e, 180M over CAT6.**
- **Support point to point and point to multi-display connections via Gigabit network switch.**
- Plug and play for easy operation.
- Perfect for control remote machines and security monitoring systems, digital signage application.
- **Optional model: SR01 signal repeater for longer distance application.**

BUY ON

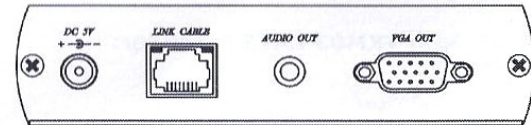
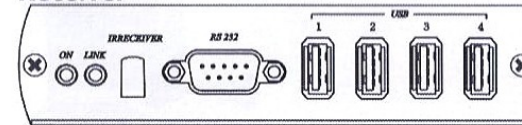
www.cablematic.com

Panel View:

Transmitter

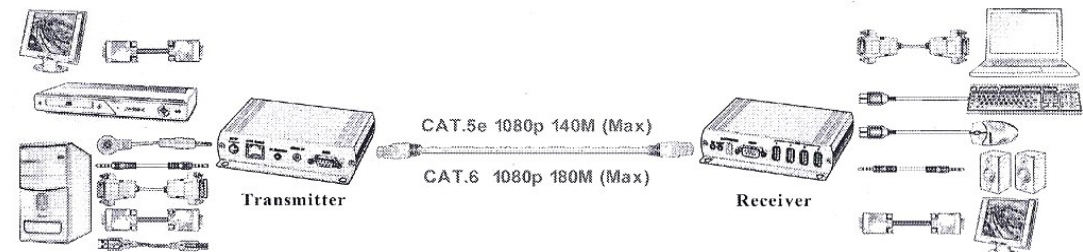


Receiver

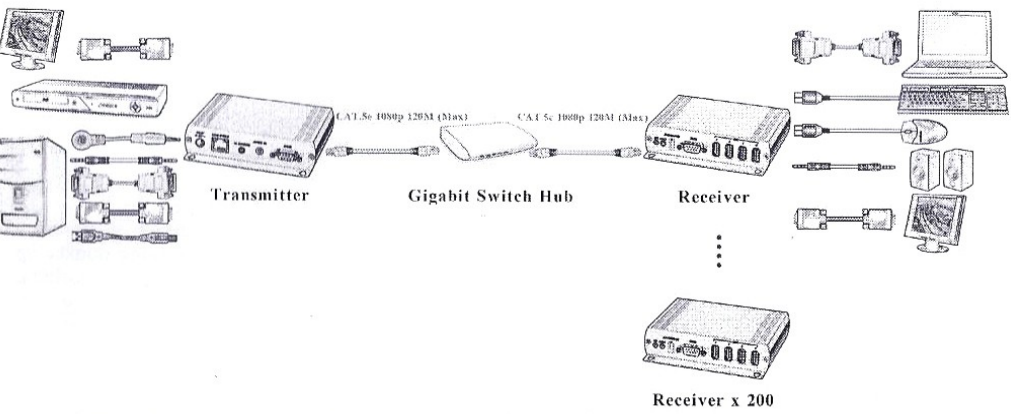


Installation View:

Point to Point Direct Connection:



Over Gigabit Ethernet switches: One to Multiple Connection



1 Input to Multiple outputs connections via a Gigabit network switch

Recommend installation using an independent Gigabit LAN; do not link with existing LAN to avoid a lot of video data transmission slow down your network system.

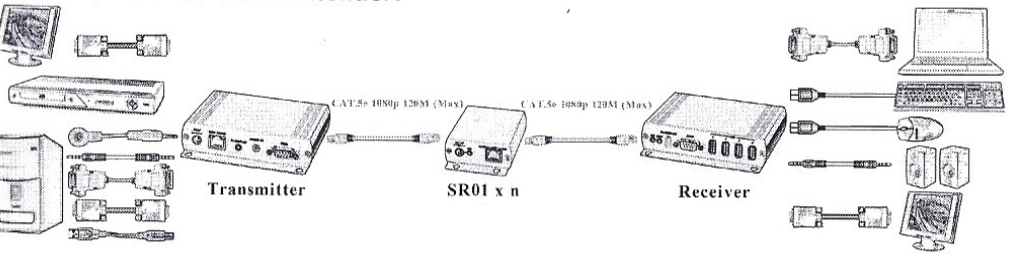
When using multiple transmitters and receivers via a Gigabit network switch, identically configure dip switches on the local and remote units to link them together.

In multiple connections keyboard and mouse are plug and play, for other USB devices just simply press and click the USB keyboard "Pause/Break" KEY on a receiver for three times to get USB control; only one unit can have USB control over the source at any time.

Optional Model: SR01 Signal Repeater (order separately)

- Extend data signal for an additional 120meters.
- Application for VKM03 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 VKM03 CAT5 Extender:



LED Indication Status:

Power	On (power)
Link	Flash (under linking)
	On (linking)
RJ45	Green Flash (Data transmission)
	Orange On (linking)

Cable:

Link Cable use high quality Cat.5e UTP/STP/FTP or Cat.6 UTP cable

Ethernet Switch Hub Recommendation :

Recommend to use IGMP and Jumbo Frame over 8K Ethernet Switch Hub in order to achieve the best transmission quality

HOT KEY Function :

VKM03 could use Ethernet Switch Hub to do one to multiple application, Under multiple VKM03R for switching VKM03R external host USB flash drive port, make the external flash drive you want to use with an external USB keyboard, to click three times "Pause/Break" KEY, the system will redetect and connect USB devices.

Caution :

1. VKM03 do not recommend working with general LAN connection to avoid large video data transmission or multicast packets to slow down your other LAN devices.
2. IR receiving angle ±55degree, emitting angle 30degree · distance reach to 3-5 meters.

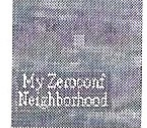
Web Setting Function :

Installation and connection:

1. Install BonjourSDKSetup.exe and zcexplorer-1.0.msi



2. After completed the Install zcexplorer-1.0.msi, desktop will appear "My Zeroconf Neighborhood" icon

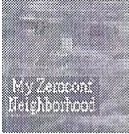


3. Connect to the PC area, click "content" then select "Internet Protocol (TCP/IP)", setting as below:

(IP address: 169.254.111.111 Submask: 255.255.0.0 Getway and DNS are not required)

4. Use CAT5 network cable connect to PC with VKM03T or VKM03R.

5. When PC and VKM03T or VKM03R connection, click "My Zeroconf Neighborhood" icon



6. It will pop up below file icon on ast-gateway as VKM03T or HTTP on ast-client as VKM03R

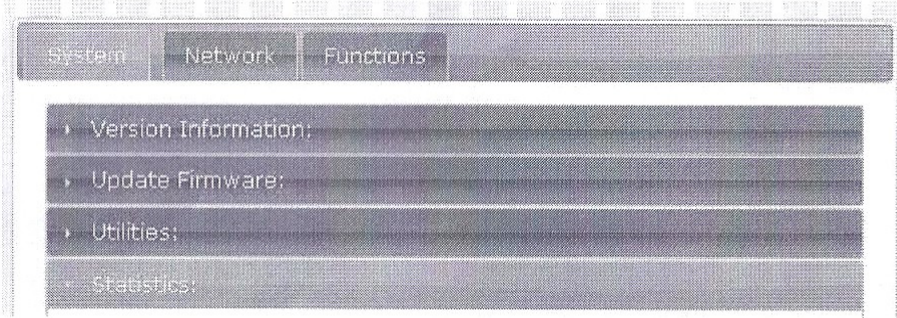


VKM03T



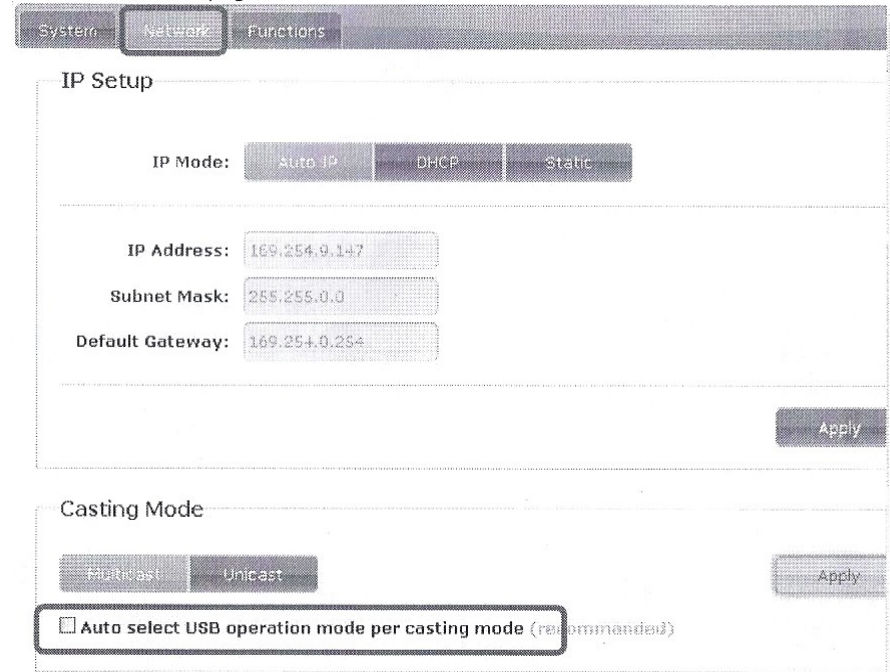
VKM03R

7. Double click on "HTTP on ast-client" (VKM03R) or "HTTP on ast-gateway" (VKM03T), will pop up web setup as below:



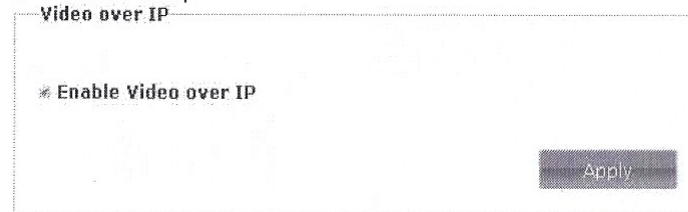
BUY ON
www.cablematic.com

8. Select Network page

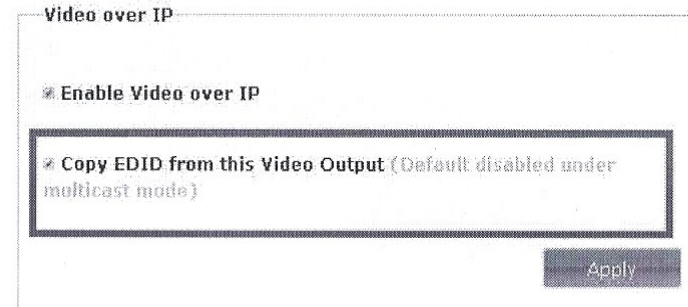


- IP Mode : Auto IP 、 DHCP 、 Static three modes, select one of them and press "Apply" to finish setting.
- Casting Mode : Multicast(one to multiple) and Unicast(one to one) two modes ,select and press "Apply" to finish setting (If setup at Multicast, pick Auto select USB operation mode per casting mode)

9. Function setup

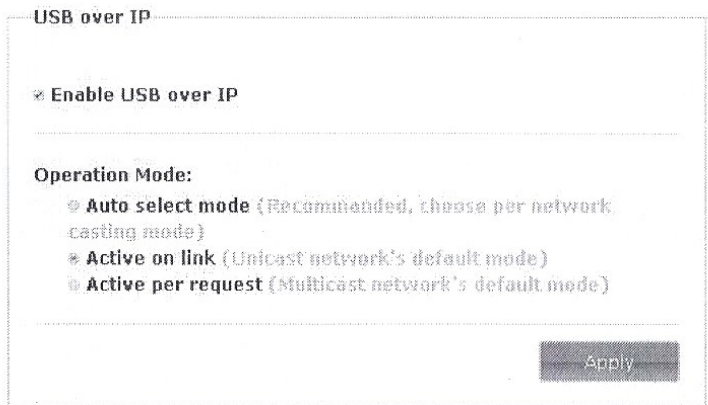


VKM03T Video over IP: This function setup the video signals send from network, select and enter "Apply" finish setting

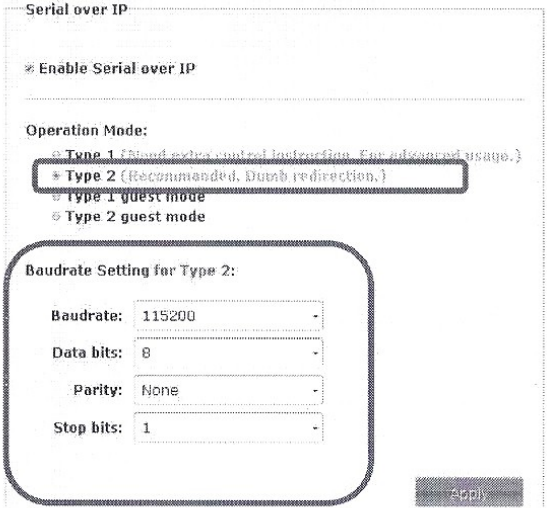


VKM03R Video over IP : This function setup the video signals send from network, select Copy EDID from this Video Output and enter "Apply" finish setting (pick up this item will auto copy VKM03R TV EDID).

In multiple connections the EDID will copy from the last connected receiver.



USB over IP Setup: This function setup the USB signals send from network.
 In Unicast (one to one) mode: Operation Mode selects "Active per request" and enters "Apply" to finish setting.
 In Multicast (one to multiple) mode: Operation Mode select "Auto select mode" and enter "Apply" to finish setting.



Serial over IP: This function setup Serial (RS232) signal sends from network
[Baud Rate Default : 115200]

- Operation Mode selects "Type 2 (Recommended. Dumb redirection.)" And enter Apply to finish setting.
- Baud rate Setting for Type 2 : It could change Baud rate as below : 300, 600, 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200, 230400

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 -

