

VGA & USB, AUDIO, RS232, IR CAT5 Extender

ITEM NO.: **AKM-03** VGA & USB with Stereo Audio, RS232, IR CAT5 Extender



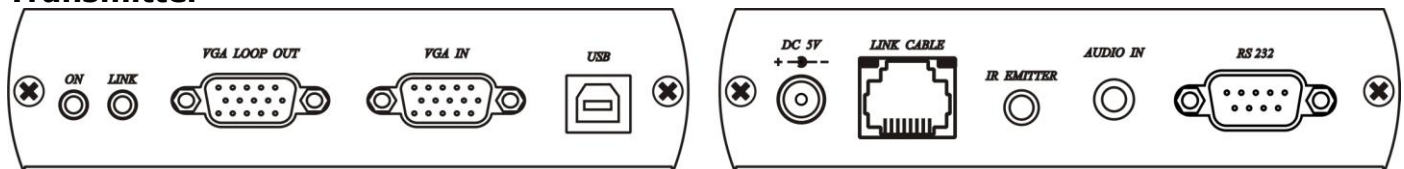
The AKM-03 VGA, USB with Stereo Audio, RS232, and IR CAT5 extender design for extends all signals over one CAT5 up to 140 meters, with local VGA monitor output. It provides superior video quality up to 1920 x 1080 resolutions, and using cost effective Cat5e cable, instead of VGA, audio, RS232 cables, 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:

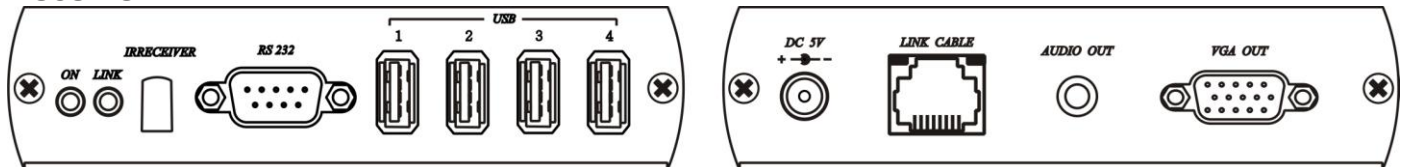
- Extend VGA, stereo audio, RS232, IR and USB signals over one CAT5E/CAT6 cable.
- USB port support USB 2.0, USB 1.0 & USB 1.1
- Full Duplex data communication.
- Transmitter unit built in VGA loop output.
- Receiver unit with 4 ports USB devices, to extend USB 2.0 peripheral devices, such as flash disk, hard disk, keyboard, mouse, etc.
- Supports up to 1920 x 1080.
- Transmission range up to **140 meters**.
- [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.

Panel View:

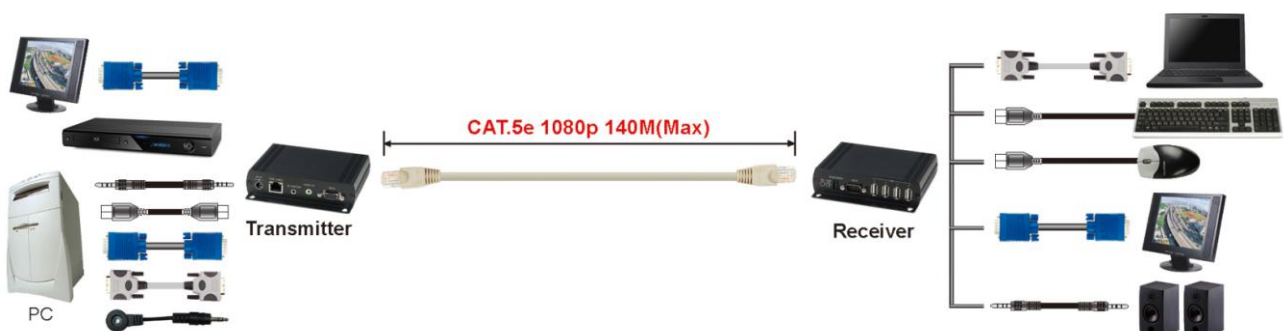
Transmitter

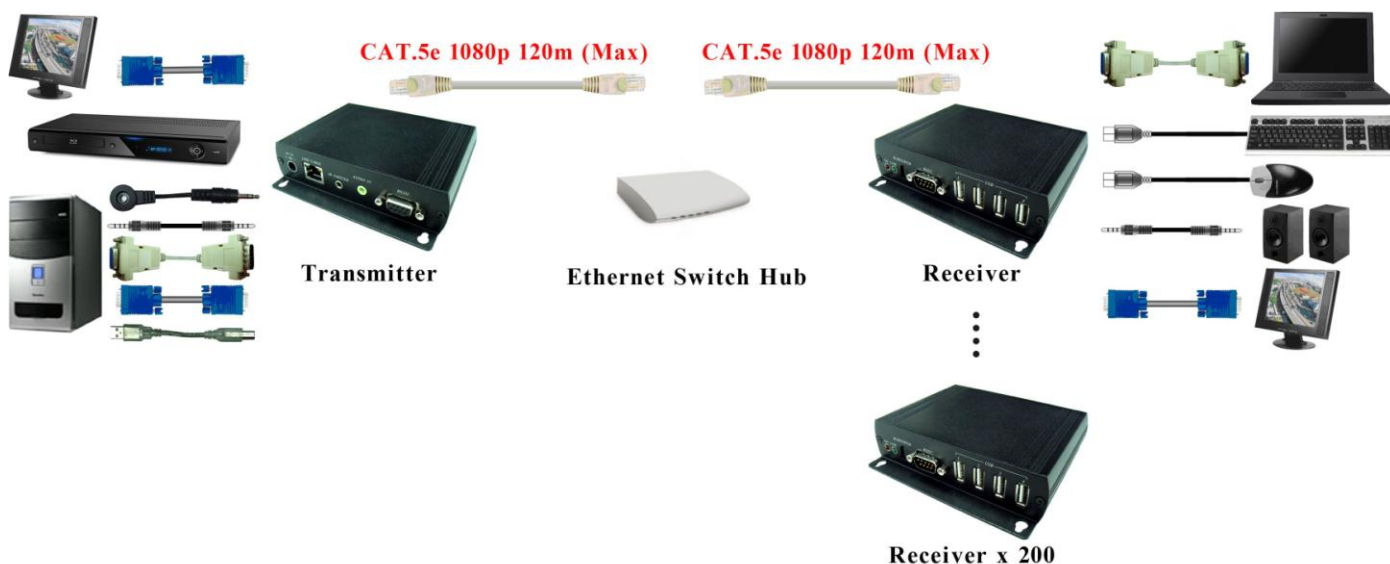


Receiver



Installation View:





1 Input to Multiple outputs connections via a Gigabit network switch

The installation using a Gigabit LAN, do not link with other LAN to avoid a lot of video data transmission slow down your other system.

Optional Model: ASR-01 Signal Repeater (order separately)

- Extend data signal for an additional 120meters.
- Application for AKM-03 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 AKM-03 CAT5 Extender:



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 -

LED Indication Status:

Power	On (power)
Link	Flash (under linking)

RJ45 On (linking)
 Green Flash (Data transmission)
 Orange On (linking)

Note: IR receiving angle ±55degree, emitting angle 30degree , distance reach to 3-5 meters.
 Video Link cable using high quality CAT5E UTP/STP/FTP or CAT6 UTP cable.

Specification:

ITEM NO.	AKM-03T	AKM-03R
Support Resolution	Up to 1920 x 1080 @ 85 Hz	
Transmission Distance	Up to 140 (Max)	
Video Input Signals	RGB Analog (75Ω, 0.7Vp-p) Sync Signal H/V Separated (TTL)	
VGA Connector	DB15 Female x 2	DB15 Female x 1
USB Connector	USB B-Type x 1	USB A-Type x 4
RS232 Connector	DB9(Female) x 1	DB9(Male) x 1
Audio Connector	3.5 mm Phone Jack x1	
IR Connector	3.5 mm Phone Jack x1	Built-in
Link Connector	RJ45 x 1	
Power Supply	DC 5V 2 Amp	
Power Consumption	1.1Amp	
Temperature	Operation: 0 to 55°C, Storage: -20 TO 85°C, Humidity: up to 95%	
Dimensions mm	125 x 120.5 x 30	
Weight g	335	330

