

## KVM-CAT5 Extra

### Model No:

KVM-CAT5 Extra -----

1) KVM-CAT5T: Transmitter

2) KVM-CAT5R Extra: Receiver

### Introduction:

KVM-CAT5 Extra is designed to control the PC, Server or KVM Switch up to 500 feet away from your Keyboard, Mouse and VGA monitor. The transmitter (KVM-CAT5T) is to synthesize the signals of PS/2 keyboard, PS/2 mouse, and VGA monitor for being easily transmitted to a long distance over popular Ethernet CAT5 cable. The receiver (KVM-CAT5R Extra) is to take the synthetic signal and return it back to the signal s of PS/2 keyboard, PS/2 mouse and VGA monitor respectively.

KVM-CAT5 Extra is a good solution for those noisy server room environment where is unsuitable for people to work for a long time, besides, it facilitates effective management on dispersive computers through one dedicated central control room, demonstration room, meeting room, or at your desk. CAT5 STP cable (Shielded Twisted Pair)/ UTP cable (Unshielded Twisted Pair) or enhanced cable like CAT5E/CAT6 cable is applied to LAN network popularly. KVM-CAT5 Extra uses the same existing network construction to transfer local console signal to remote side.

KVM-CAT5 Extra allows you to move your console, i.e. Keyboard, Mouse and VGA monitor, to a suitable place for centralized control conveniently over LAN network. You just need to install a pair of extender, the transmitter and receiver, into local side and remote side respectively. It also saves your cable layout and installation cost.

### Features:

- Compact desktop size
- Work with single PC, as well as the console port and PC port of KVM Switch
- Work with CAT5, CAT5e, or CAT6 Ethernet cable
- Distance up to 500 feet
- Support standard 3-in-one KVM switch cable
- Easy to install and friendly to set up the video signal via adjustable knobs.
- Compatible with DOS, MS Windows, Linux, Unix, and Netware
- No software required

- High VGA resolution up to 1280 X 1024 (CAT5 cable up to 500 feet approximately)
- LED indications for Power on/off and and data transmission

### Technical specifications

Functions	KVM-CAT5T Transmitter	KVM-CAT5R Extra Receiver
PS/2 Keyboard port	2	2
PS/2 Mouse port	2	2
VGA monitor port	2	2
RJ-45 port	1	1
Console port connector (all female type)	PS/2 purple mini-din 6 pin for keyboard PS/2 green mini-din 6 pin for mouse VGA blue HDDB 15 pin	
PC port connector or KVM switch console port connector (all female type)	PS/2 purple mini-din 6 pin for keyboard port PS/2 green mini-din 6 pin for mouse port VGA blue HDDB 15 pin	PS/2 purple mini-din 6 pin for keyboard port PS/2 green mini-din 6 pin for mouse port VGA blue HDDB 15 pin
RJ-45 port connector	8P8C ( same as Ethernet 100BaseT port)	
LED	Power, Data	PC1,PC2
Knobs ( for VGA tuning )	No	1
300 feet segment DIP switch	1	No
Size	Desktop	Desktop
Power adapter	No need	DC 9V, 500mA
Weight (g)	134g	150g
Dimension (mm)	111.5(L) x 75(W) x 35.5 (H) mm	117(L) x 80(W) x 39.5 (H) mm

### Package contents

Model no.: KVM-CAT5 Extra

Transmitter (KVM-CAT5T)  
Receiver (KVM-CAT5R Extra)  
KVM 3-in-one cable  
Power adapter DC9V, 500mA

1 pc  
1 pc  
1 pc  
1 pc

### Cable Diagram

#### PS/2 Cable:

Mini Din 6 pin Male to Male



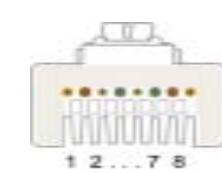
#### VGA Cable:

HDDB15 pin Male to Male

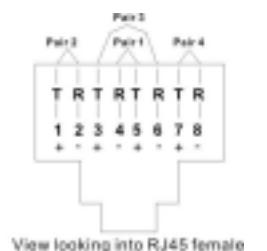


#### CAT5/5E/6 Straight Through STP (Shielded Twisted Pair) or UTP (Unshielded Twisted Pair) Cable:

8P8C



Pin	Wire Color	Pair	Function
1	White/Orange	2	T
2	Orange	2	R
3	White/Green	3	T
4	Blue	1	R
5	White/Blue	1	T
6	Green	3	R
7	White/Brown	4	T
8	Brown	4	R

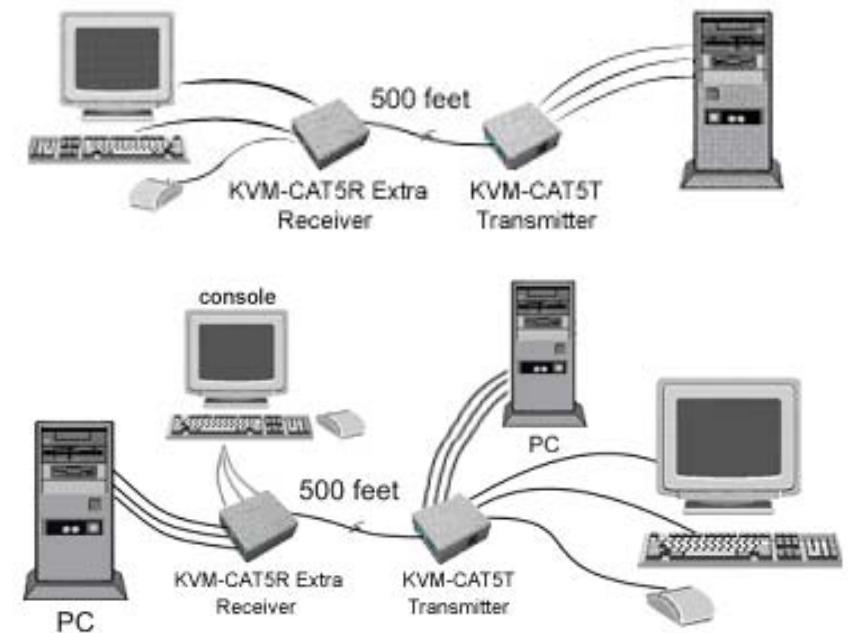


### Installation:

Before installation, please make sure to turn off all of the computers and peripherals as well; and refer to the following instructions properly for installation:

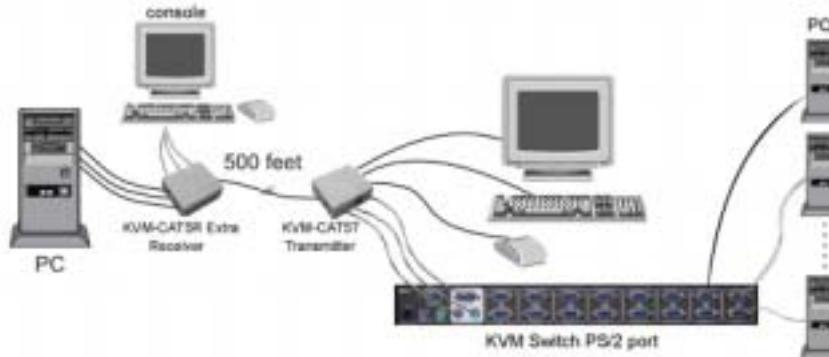
Adjust the “**KNOB**“ on top of the receiver (KVM-CAT5R Extra) for optimal VGA display quality, which varies according to the cable characteristic, such as the length, category, shielded, and unshielded. Turn on “DIP SWITCH 1 and 2” on the side of transmitter (KVM-CAT5T), if the CAT5 cable is longer than 300 feet. The factory default value of “**DIP SWITCH 1 and 2**” is **OFF**.

#### 1. Extending your PC console up to 500 feet away:



- 1.1. Connect the console ports of PC to the transmitter’s (KVM-CAT5T) “PC port” with standard 3-in-one KVM switch cable (male to male). Normally, all of connectors are PC99 standard --- PS/2 purple mini-din 6 pin for keyboard, PS/2 green mini-din 6 pin for mouse and blue HDDB 15 pin for VGA.
- 1.2. Connect the other PC’s console ports to the receiver’s (KVM-CAT5R Extra) “PC port” with standard 3-in-one KVM switch cable (male to male).
- 1.3. Connect the transmitter and receiver of KVM-CAT5 Extra through their RJ-45 connecters with a CAT5 cable.
- 1.4. Connect Keyboard, Mouse, and Monitor to the transmitter’s “Console Port.”
- 1.5. Connect Keyboard, Mouse, and Monitor to the receiver’s “Console Port.”

## 2. Extending console port or PC port of KVM Switch up to 500 feet away



- 2.1. Connect console ports of the KVM switch to the transmitter's (KVM-CAT5T) "PC Port" with a standard 3-in-one KVM switch cable (male to male).
- 2.2. Connect PC console ports to the receiver's (KVM-CAT5R Extra) "PC Port" with a standard 3-in-one KVM switch cable (male to male).
- 2.3. Connect the transmitter and receiver of KVM-CAT5 Extra through their RJ-45 connectors with a CAT5 cable.
- 2.4. Connect Keyboard, Mouse, and Monitor to the transmitter's (KVM-CAT5T) "Console Port."
- 2.5. Connect Keyboard, Mouse, and Monitor to the receiver's (KVM-CAT5R Extra) "Console Port."
3. Power on PC and the receiver (KVM-CAT5R Extra).
4. Check the VGA screen to make sure the quality is optimal. If the video quality is not good enough for operation, please adjust the knob on the top of transmitter to improve the video quality.

### Keyboard Hot Key Commands:

You can switch the receiver (KVM-CAT5R Extra) from "PC Port" to "RJ-45 Port" and vice-versa through simple key sequences made by the remote console side. To send commands to the receiver, press the "SCROLL LOCK" key twice within 2 seconds. There will be a beep for confirmation.

#### Below are the different Hot Key Commands:

+ + = To select "PC Port" or "RJ-45 Port" of the receiver

+ + = Beeper on/off

- When the transmitter (KVM-CAT5T) is connected to a KVM Switch, the Hot Key Commands of the KVM switch will be passed to KVM Switch directly.

### Troubleshooting:

1. Receiver's power LED is not ON. Make sure power adapter is connected to the receiver (KVM-CAT5R Extra).
2. No video signal is displayed on the monitor.
  - 2.1 Please check if VGA cable and CAT5 cable are properly connected to the connectors respectively.
  - 2.2 Make sure VGA cable is attached to computer during the boot-up process.
  - 2.3 Make sure power adapter is connected to the receiver.
3. Video signal is foggy or un-cleared on the screen.
  - 3.1 Please check if the VGA cable is properly connected.
  - 3.2 Make sure the VGA resolution is not too high for the length of cable that is used. It is highly recommended to use "optimal CAT5 cable length" to get the best video quality and not to waste unnecessary CAT5 cable. Therefore, if the problem happened, please shorten the CAT5 cable length or reduce VGA resolution.

### ➤ NOTE: High VGA resolution up to 1280X1024 (CAT5 cable length up to 500 feet approximately)

4. There is the error message "Keyboard or Mouse not found" on the screen. Please make sure PS/2 cable and connector are well seated.
5. For USB computers like PC, MAC, or SUN Microsystems, please apply USB-to-PS/2 adapter to KVM-CAT5 Extra.

### Certification:

#### FCC

This equipment has been tested and found to comply with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received.

Including interference that may cause undesired operation.

#### CE – Certificate

This equipment is in compliance with the requirements of the following regulations: EN 55 022: CLASS B



Made in Taiwan