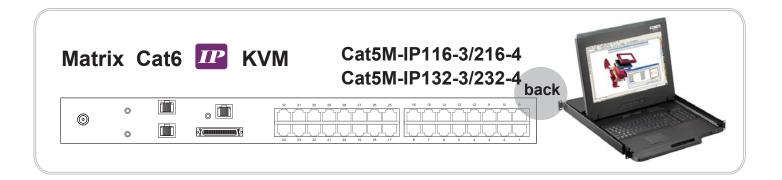
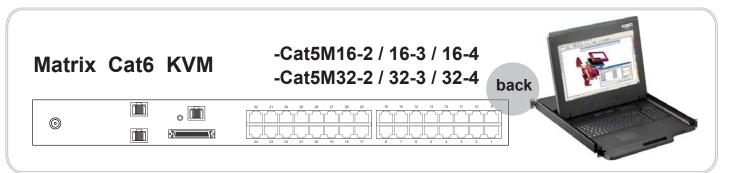


dedicated KVM switch and rackmount screen technology

# User Manual - KVM Rear Kit Version for LCD Console Drawer





**751** 

#### Legal Information

First English printing, October 2002

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

#### Safety Instructions

# Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

#### What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:

	Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or
	failure to follow instructions supplied with the product.
	Repair or attempted repair by anyone not authorized by us.
	Any damage of the product due to shipment.
	Removal or installation of the product.
	Causes external to the product, such as electric power fluctuation or failure.
П	Use of supplies or parts not meeting our specifications.

- Normal wear and tear.Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

#### Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

## **Contents**

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Cat5M-IP116-3 Cat5M-IP216-4
Cat5M-IP132-3 Cat5M-IP232-4

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1.5	KVM Cascade	P.7
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## < Part 2 > Matrix Cat6 KVM Kit

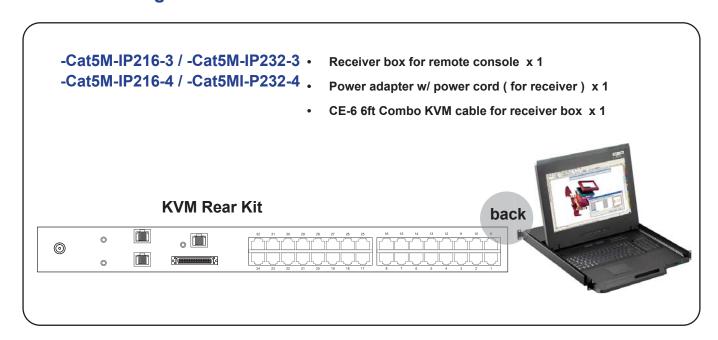
Cat5M-16-2 Cat5M-16-3 Cat5M-16-4 Cat5M-32- Cat5M-32-3 Cat5M-32-4

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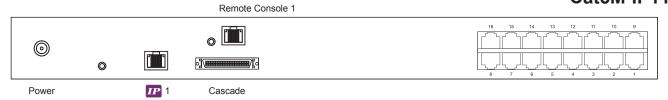
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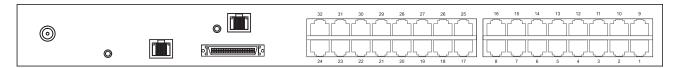
#### **Matrix Cat6 IP KVM**

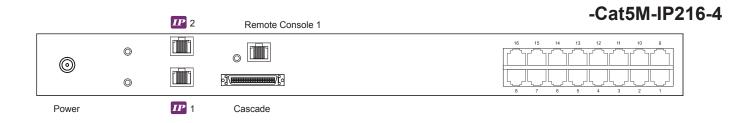


#### -Cat5M-IP116-3

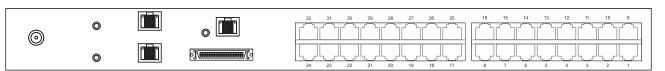


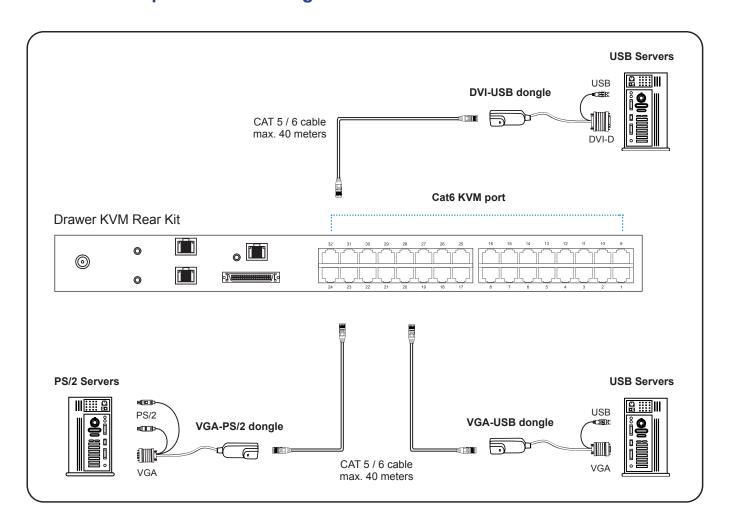
#### -Cat5M-32-2





#### -Cat5M-32-4







## Cat5 Dongle USB/DVI

- To connect DVI-D connector to the computer's video card
- To connect USB connector to the computer's USB port



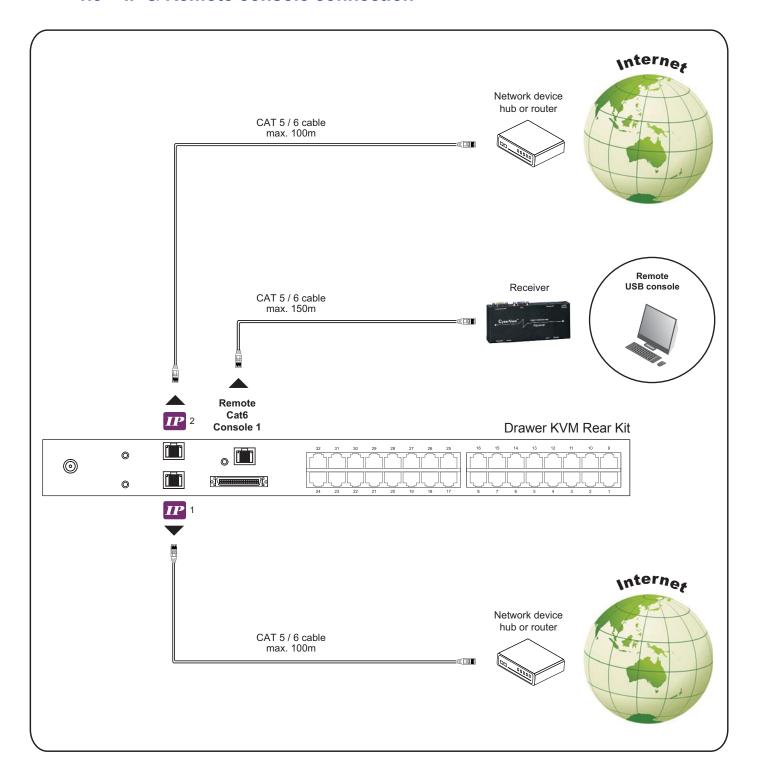
## Cat5 Dongle USB

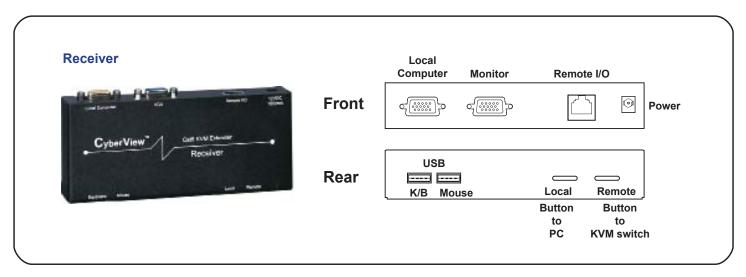
- To connect DB-15 connector to the computer's video card
- To connect USB connector to the computer's USB port



## Cat5 Dongle PS/2

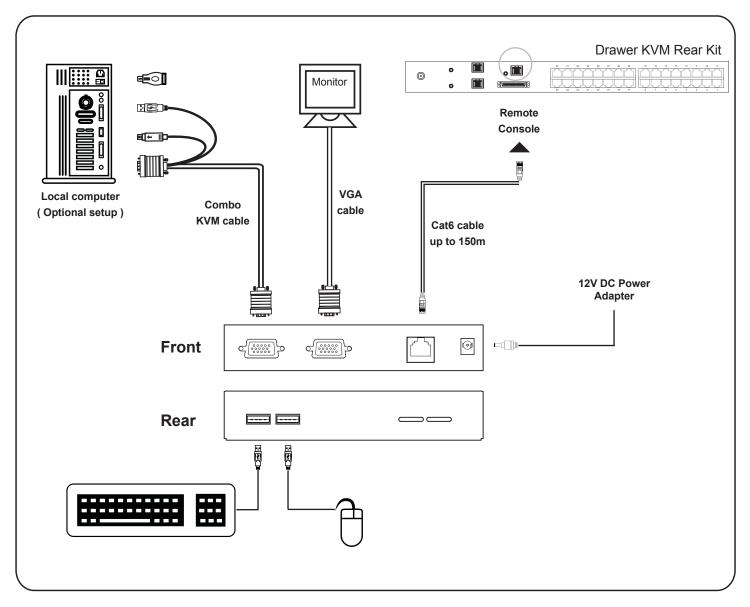
- To connect DB-15 connector to the computer's video card
- To connect PS/2 keyboard connector to the computer's keyboard port
- To connect PS/2 mouse connector to the computer's mouse port







The receiver provides a hotkey function for remote console. Please refer to P.20



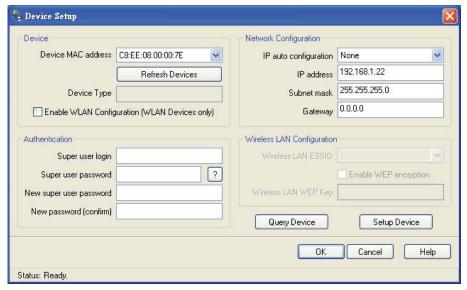
### < 1.4 > IP console setting

After the cable connection, please take the following steps to configure the IP KVM:

1. Download from the link:

www.rackmountsales.com/v/pdf/citumipkvm.pdf

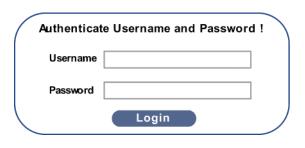
2. Refer to page 3 to configure the IP KVM by device setup as below.



- 3. Click Refresh Device to search the connected IP KVM
- 4. Select the M.A.C. address, which you want to setup, then click Query Device
- 5. Enter Super user login. The default is super
- 6. Enter Super user password. The default is pass
- 7. Enter the new super user password
- 8. Re-enter the new password
- 9. Change the desired IP address / Subnet mask / Gateway, then click Setup Device to confirm the setting to IP KVM
- 10. The default address is as below:--
- The single IP KVM model, such as MU-IP3213 http://192.168.1.22
- The dual IP KVM model, such as MU-IP3224 http://192.168.1.22 (for 1st IP)

http://192.168.1.23 (for 2nd IP)

- 11. Open Internet Explorer (I.E.), version 6.0 or above
- 12. Enter the IP KVM address into the address bar
  - For Single IP http://192.168.1.22
  - For Dual IP http://192.168.1.22 ( for 1st IP )
     http://192.168.1.23 ( for 2nd IP )
- Enter username ( default is super )
   Password ( default is pass )



14. After successful login to IP KVM, the user will enter the main page of IP KVM



The setting is enough for intranet.

www.rackmountsales.com/v/pdf/citumipkvm.pdf

#### < 1.5 > KVM Cascade

- Cascade up to 8 levels, 256 servers
- Cascading multiple KVM with CMC-8 cascade cable.



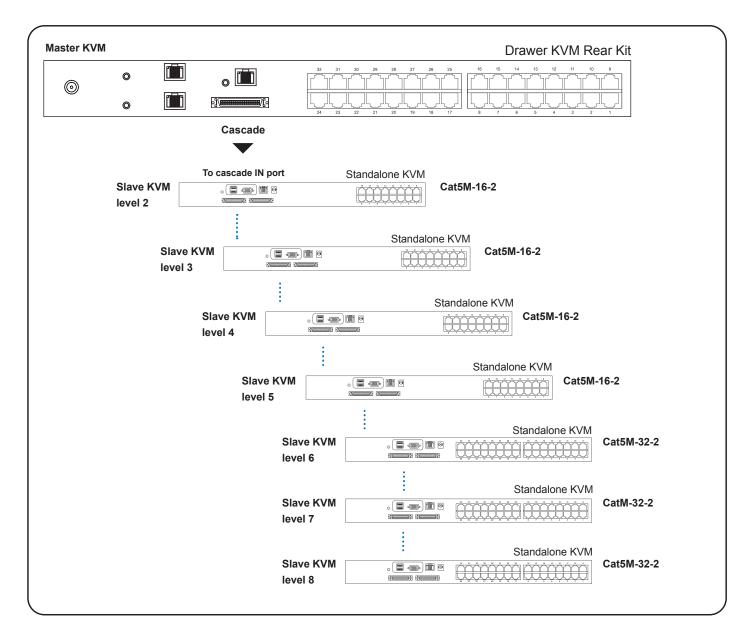
Cascaded KVMs from level 2 to 8 must be the models of Cat5M-16 / Cat5M-32 or M-802 / M-1602.



When multiple matrix KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).



The slave matrix KVM will be as a port expansion module of the master matrix KVM, the original remote console on slave KVM will be sacrificed and disabled.





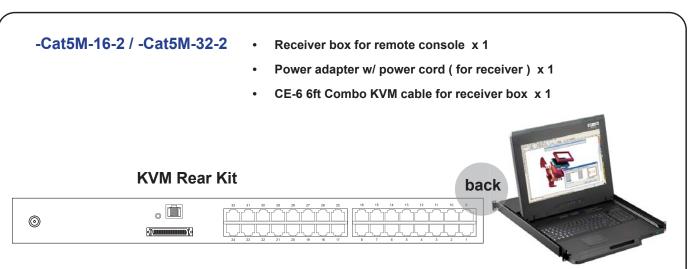
#### **KVM-Matrix-8**

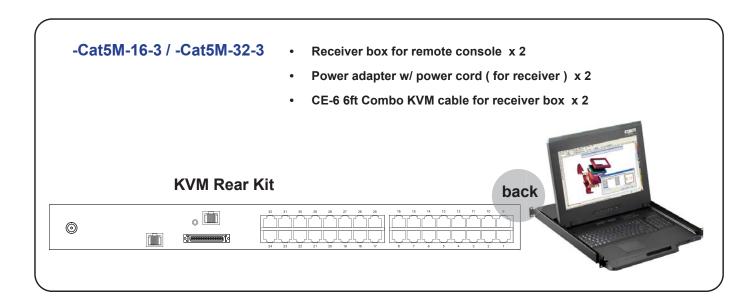
8ft Matrix KVM cascade cable

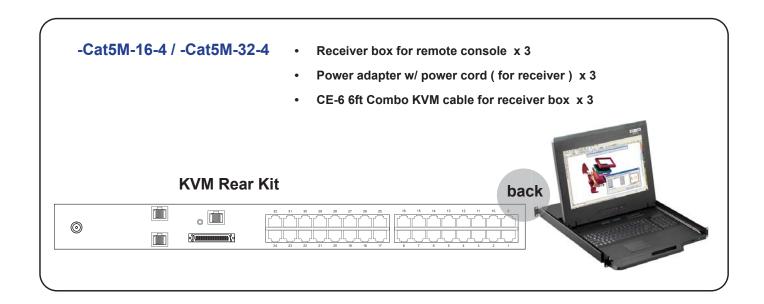
# < 1.7 > Specifications

	-Cat5M-IP216-3	-Cat5M-IP216-4
	-Cat5M-IP232-3	-Cat5M-IP232-4
■ KVM Port		
Number of ports:	16 or 32	
Connector:	RJ-45	
Connectivity:	DVI-D / VGA connector do	ngle up to 40 meters (132 feet) via
	Cat6 / Cat5 cable	
Local Console	Nil for LCD console drawe	r version
Cat6 Remote Cor	nsole	
Number of remote	port: 1	
Monitor port:	DB15-pin VGA, up to 1600	x 1200
Keyboard & mous	e port: 2 x USB type connector fo	r keyboard & mouse
Remote I/O:	RJ45 via Cat5 / Cat5e / Ca	at6 cable up to 500 feet
IP Remote Consc	ole	
Number of IP cons	sole: 1 for Cat5M-IP116-13 / Ca 2 for Cat5M-IP216-4 / Cat	
User managemen	t: 15-user login, 1 x active us	ser
Browser:	Internet Explorer, Firefox,	Safari
Security:	SSL v3, RSA, AES, HTTP	/ HTTPs, CSR
IP Access:	RJ45 Ethernet per IP cons	sole
Expansion:	Up to 256 servers by 8-lev	rel cascade
Compatibility		
Multi-platform:	Mix PCs, SUN and Mac G	3 / G4 Mac / iMac
Support:	Windows 7 / Vista / 2003 /	XP, Linux, Unix
Power		
Input:	AC power adapter	
Consumption:	Max. 48 Watt, Standby 5 V	Vatt
Regulatory Appro	oval: FCC, CE	
■ Environmental		
Operating:	0 to 50°C	
Storage:	-5 to 60°C	
Relative humidity:		
Shock:	50G peak acceleration (11	ms, half-sine wave)
Vibration:	58~100Hz / 0.98G (11ms /	•

## < 2.1 > Package Contents



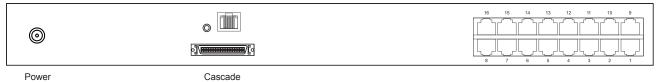




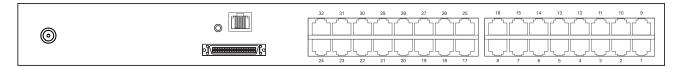
#### **Matrix Cat6 KVM**

#### -Cat5M-16-2

#### Remote Console 1



## -Cat5M-32-2

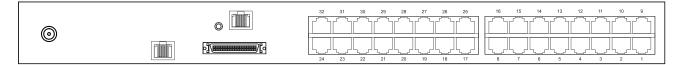


#### -Cat5M-16-3





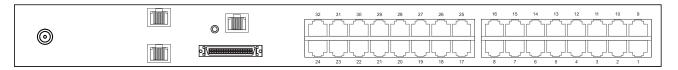
#### -Cat5M-32-3

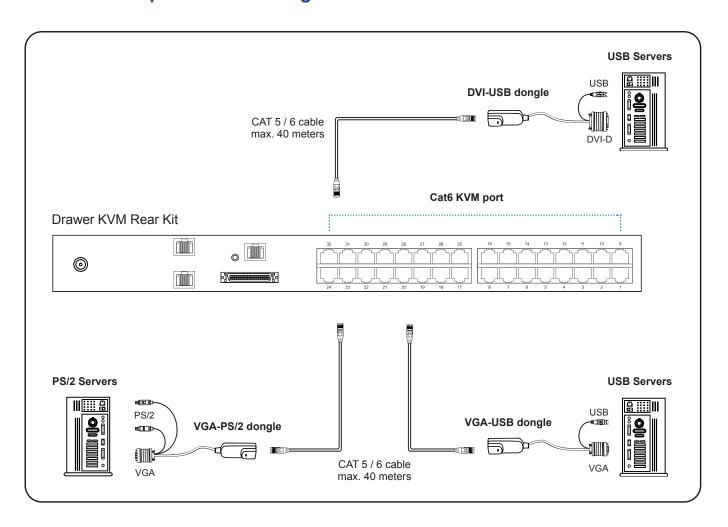


## -Cat5M-16-4



#### -Cat5M-32-4







## Cat5 Dongle USB/DVI

- To connect DVI-D connector to the computer's video card
- To connect USB connector to the computer's USB port



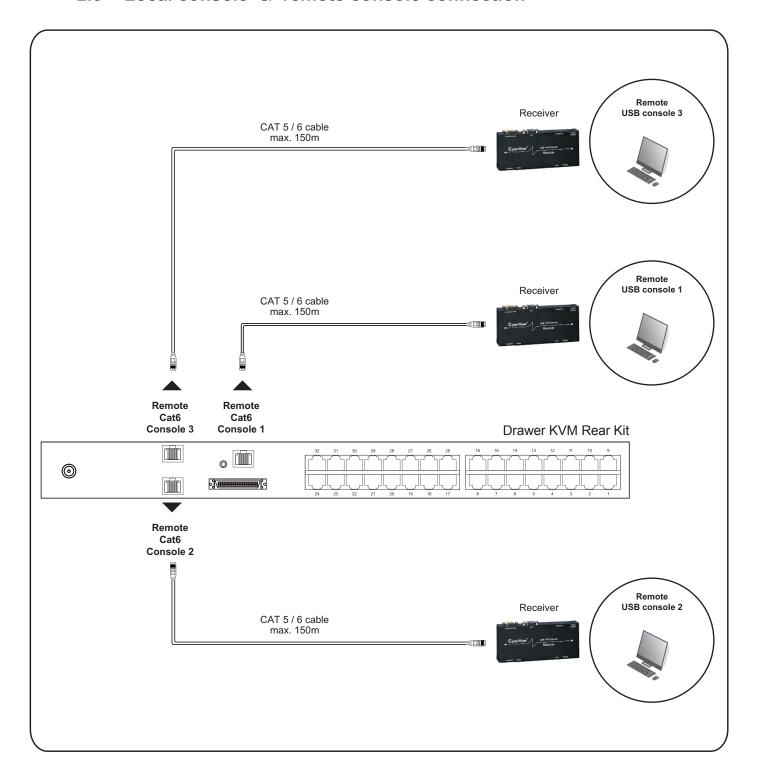
## Cat5 Dongle USB

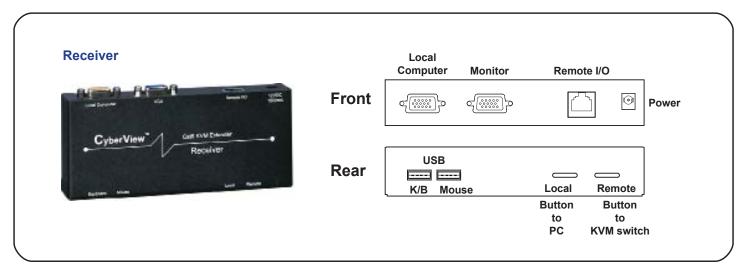
- To connect DB-15 connector to the computer's video card
- To connect USB connector to the computer's USB port



## Cat5 Dongle PS/2

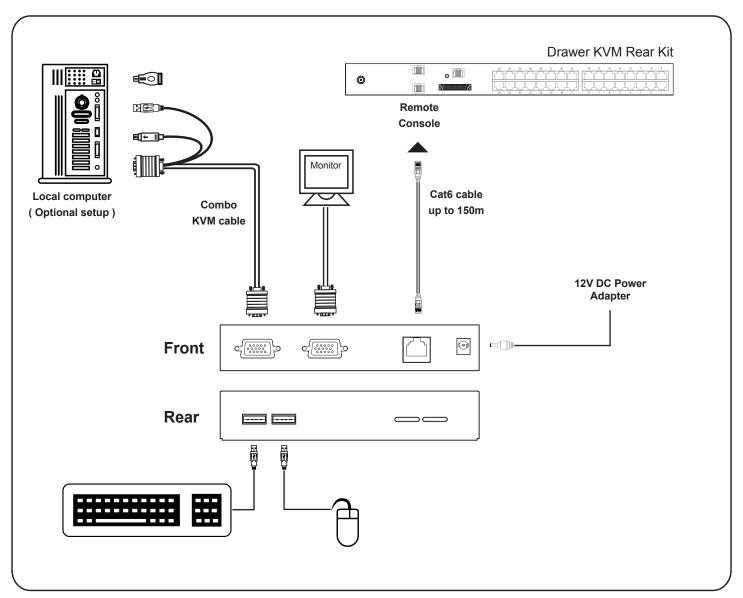
- To connect DB-15 connector to the computer's video card
- To connect PS/2 keyboard connector to the computer's keyboard port
- To connect PS/2 mouse connector to the computer's mouse port







The receiver provides a hotkey function for remote console. Please refer to P.20



#### < 2.4 > KVM Cascade

- Cascade up to 8 levels, 256 servers
- Cascading multiple KVM with CMC-8 cascade cable.



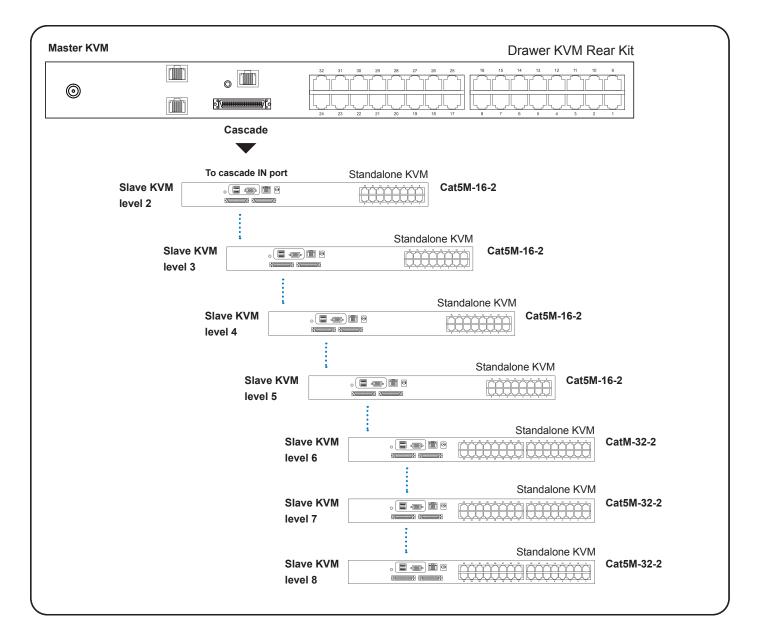
Cascaded KVMs from level 2 to 8 must be the models of Cat5M-16-2 / Cat5M-32-2 or M-802 / M-1602.



When multiple matrix KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).



The slave matrix KVM will be as a port expansion module of the master matrix KVM, the original remote console on slave KVM will be sacrificed and disabled.





#### **KVM-COMBO-8**

■ 8ft Matrix KVM cascade cable

	-Cat5M-16-2	-Cat5M-16-3	-Cat5M-16-4
	-Cat5M-32-2	-Cat5M-32-3	-Cat5M-32-4
KVM Port			
Number of ports:	16 or 32		
Connector:	RJ-45		
Connectivity:		nector dongle up to 40 meter	s (132 feet) via
	Cat6 / Cat5 cable		
Local Console	Nil for LCD conso	ole drawer version	
Cat6 Remote Console	e		
Number of remote port	: 1 for Cat5M-16-2	/ Cat5M-32-2	
	2 for Cat5M-16-3	/ Cat5M-32-3	
	3 for Cat5M-16-4	/ Cat5M-32-4	
Monitor port:	DB15-pin VGA, u	p to 1600 x 1200	
Keyboard & mouse po	rt: 2 x USB type con	nector for keyboard & mouse	9
Remote I/O:	RJ45 via Cat5 / C	Cat5e / Cat6 cable up to 500 t	feet
Expansion:	Up to 256 servers	s by 8-level cascade	
Compatibility			
Multi-platform:	Mix PCs, SUN ar	nd Mac G3 / G4 Mac / iMac	
Support:	Windows 7 / Vista	a / 2003 / XP, Linux, Unix	
Power			
Input:	AC power adapte	er	
Consumption:	Max. 48 Watt, Sta	andby 5 Watt	
Regulatory Approval:	FCC, CE		
Environmental			
Operating:	0 to 50°C		
Storage:	-5 to 60°C		
Relative humidity:	90%, non-conder	nsing	
Shock:	50G peak acceler	ration (11ms, half-sine wave)	
Vibration:	58~100Hz / 0.980	G (11ms / cycle)	

#### 3.1 KVM Button

#### **Power ON**

BANK

- Turn off all servers and KVM switches
- Make sure all cables / connectors are properly connected
- Recommend Power ON sequence is monitor, KVM switch finally computer

# 

Bank no.	7-Segment BANK LED indication	
PC port LEDs	Online: Blue LED on indicating a PC is connecting to the port	
	Active: Green LED on indicating a selected channel	
	Remote: Orange LED on indicating the port is selecting by IP / remote console	
Channel button	Press to select channel from 01 to 32	
Bank button	Select the bank from 1 to 8	

The password is enabled by default, the default password is "00000000" eight zeros (**Do not use "0" on number pad**)

#### **■** Enable password

- 1. Press the KVM hotkey Scroll Lock + Scroll Lock + U
- 2. Logout the KVM by pressing the hotkey **Scroll Lock + Scroll Lock + P**
- 3. In SUPERVISOR level, enter "00000000" eight zeros in user name & password field (Do not use "0" on number pad)
- 4. In USER level, press **Space bar + Enter** in user name & password field Remark: Automatic logout after 10 minutes of inactivity

#### ■ Set your own user name & password

- 1. Login the KVM in SUPERVISOR level by pressing "00000000" eight zeros in user name & password field
- 2. Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
- 3. Press F1 to the MAIN MENU
- 4. Select "USER SECURITY"
- Set password in SUPERVISOR & USER level
  - a. In the left-top row "S" (SUPERVISOR), press Enter to set your own user name & password
  - b. In the row 1 to 8 (USER), press **Enter** to set your own user name & password
- 6. Press Enter to save the setting or press Esc to cancel the editing without any change
  - Remark: a. Blank has underscore, while SPACE doesn't have
    - b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

#### ■ Change your password

- 1. Login the KVM in SUPERVISOR level by pressing your own user name & password
- 2. Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
- 3. Press F1 to the MAIN MENU
- 4. Select "USER SECURITY"
- 5. Change password in SUPERVISOR & USER level
  - a. In the left-top row "S" (SUPERVISOR), press Enter to change your user name & password
  - b. In the row 1 to 8 (USER), press **Enter** to change your user name & password
- 6. Press Enter to save the setting or press Esc to cancel the editing without any change
  - Remark: a. Blank has underscore, while SPACE doesn't have
    - b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

#### ■ Disable your password

- 1. Press the KVM hotkey Scroll Lock + Scroll Lock + U
- 2. Logout the KVM by pressing the KVM hotkey Scroll Lock + Scroll Lock + P
- 3. You don't need user name & password to access the KVM OSD menu

#### ■ Forget your password

Please contact your supplier for further support

#### Remark:

- You must press the KVM hotkey within 2 seconds
- A beep sound will be heard for successful entering KVM hotkey

OSD Menu	PORT NAME
	BANK:1 01☆ SYSTEM 01 02☆ SYSTEM 02 03☆ SYSTEM 03 04☆ SYSTEM 04 05☆ SYSTEM 05 06☆ SYSTEM 06 07☆ SYSTEM 07 BANK SELECT  BANK SELECT
OSD operation	08☼ SYSTEM 08  USER: SUPERVISOR SCAN TIME: 10 SEC FW1V3
next to the system name	The PC is powered on
next to the system name	The PC is selected
F1	Access F1 MAIN MENU
F2	Logout the OSD menu
F3	Previous menu
Esc	Cancel / Quit
Enter	Complete / Switch to selected port
<b>★/</b> ▼	Switch to previous or next port
PgUp/PgDn	Switch to previous bank or next bank
1/2/3/4	Display port 01 ~ 08 / 09 ~ 16 / 17 ~ 24 / 25 ~ 32  Remark: Display port 17 ~ 32 for 32 port model only

F1 Main Menu	MAIN MENU 🖘 X	
	SELECT OPTION :	
	01 LANGUAGE 02 PORT NAME EDIT 03 PORT SEARCH 04 USER SECURITY 05 ACCESS LIST 06 HOTKEY 07 TIME SETTINGS 08 OSD MOUSE	
01 LANGUAGE	OSD language change	
02 PORT NAME EDIT	Define port name	
03 PORT SEARCH	Quick searching by port name	
04 USER SECURITY	Change password	
05 ACCESS LIST	Define user access authority	
06 HOTKEY	Change hotkey	
07 TIME SETTINGS	Modify scan display time interval	
08 OSD MOUSE	Modify OSD mouse speed	

Local Console Hotkey		Function	
Scroll Lock + Scroll Lock +	Space Bar	Calling OSD menu	
Right-button mouse + Esc		Calling OSD menu	
Scroll Lock + Scroll Lock +	<b>†</b>	Switch to previous port	
Scroll Lock + Scroll Lock +	•	Switch to next port	
Scroll Lock + Scroll Lock +	PgUp / PgDn	Switch to previous bank or next bank	
Scroll Lock + Scroll Lock +	Bank no. + Port no.	Switch to specific port	
Scroll Lock + Scroll Lock +	В	Turn the buzzer ON and OFF * Default the buzzer is ON	
Scroll Lock + Scroll Lock +	Р	Logout the KVM if password security is ON. Show up the status windows	
Advance hotkeys (for Su	pervisor login only)		
Advance hotkeys (for Su Scroll Lock + Scroll Lock +	pervisor login only) s	Activate auto-scan mode for connected servers *Press any key to exit the auto-scan mode	
		servers *Press any key to exit the auto-scan	
Scroll Lock + Scroll Lock +	s	servers *Press any key to exit the auto-scan mode  Reset all the KVM settings to factory default	

Remarks: ■ Example of "Scroll Lock + Scroll Lock + Bank no. + Port no."

- Bank No.: 1 to 8 - Port No.: 01 to 16

- e.g. Bank 1 Port 4 : **Scroll Lock** + **Scroll Lock** + **1** + **0** + **4** 

- e.g. Bank 2 Port 16: Scroll Lock + Scroll Lock + 2 + 1 + 6

■ You must press the hotkey within 2 seconds

■ A beep sound will be heard for successful entering

■ The numeric keypad is not supported, while in OSD screen, the arrow keys, PgUp, PgDn, and Enter keys are supports

Remote Console Hotkey	Function	
Scroll Lock + Scroll Lock + C	Toggle switch between remote & local port	
Scroll Lock + Scroll Lock + Q	Turn the buzzer ON & OFF *Default the buzzer is ON	
Scroll Lock + Scroll Lock + S	Activate auto-scan mode for remote & local port *The scan time interval is 5 seconds	
Scroll Lock + Scroll Lock + A	Auto-adjust the video signal	

