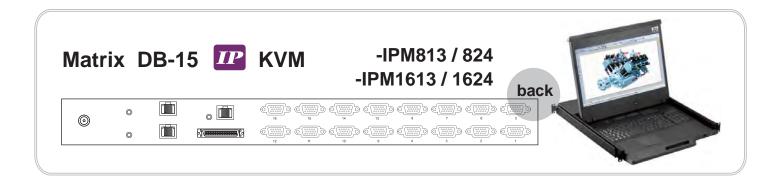
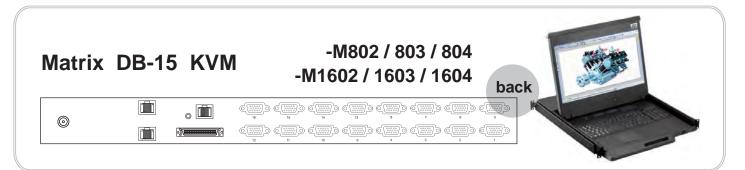


dedicated KVM switch and rackmount screen technology

# 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.

- ☐ 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**

# < Part 1 > Matrix DB-15 KVM Kit

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	IPM1603 IPM1624	
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# < Part 2 > Matrix DB-15 KVM Kit

M-83

M-82

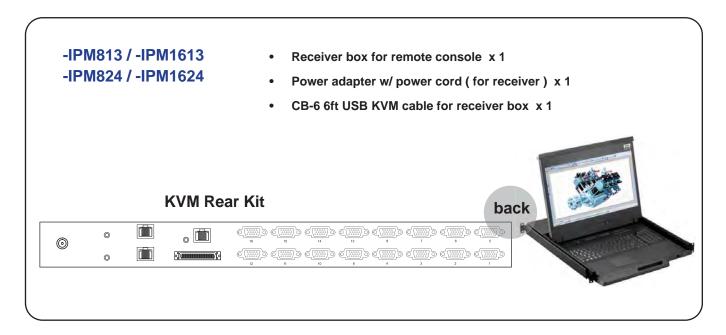
	M-162	M-163	M-164
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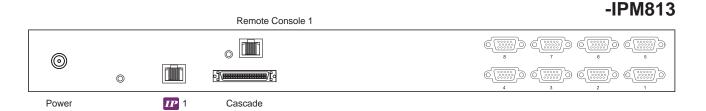
**M-84** 

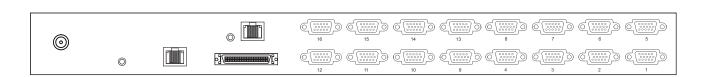
# < Part 3 > Usage

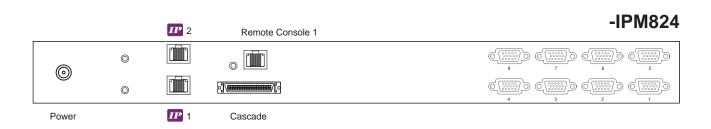
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# Matrix DB-15 IP KVM



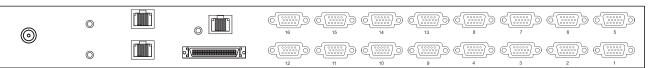


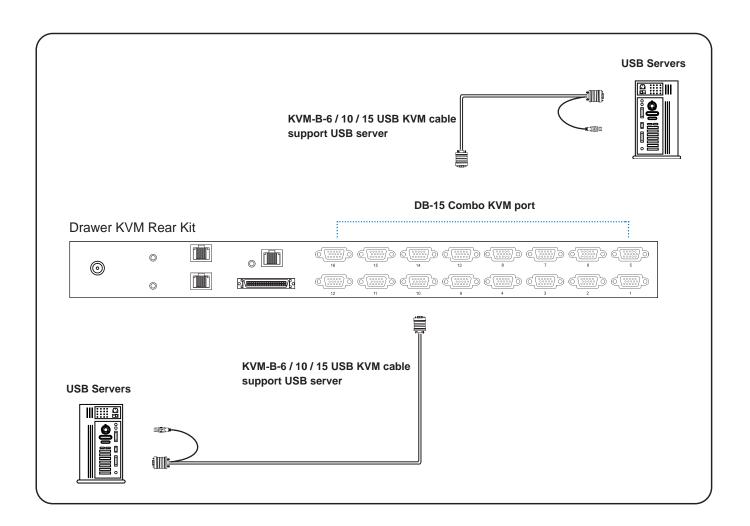




# -IPM1624

-IPM1613

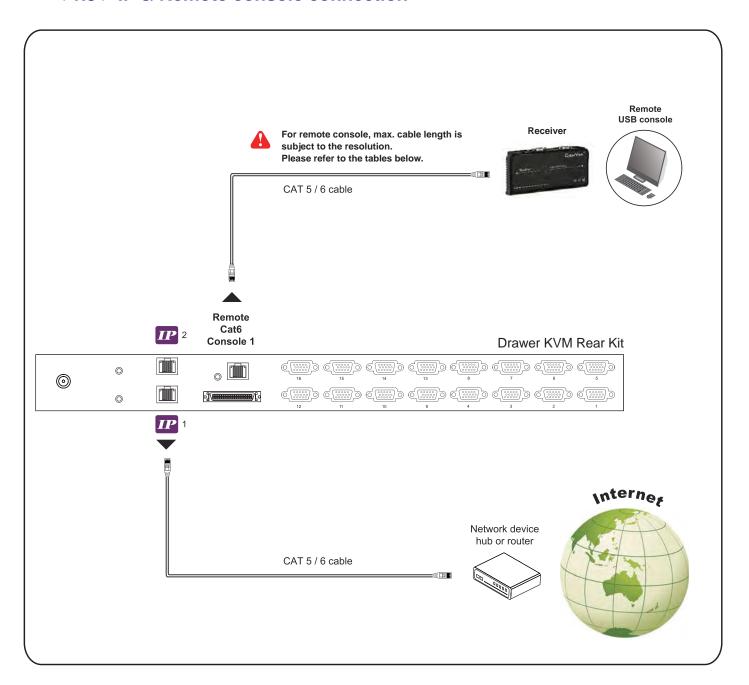




# KVM-B-6 / -10 / -15

- 6 / 10 / 15 ft USB KVM cable
- Support USB server



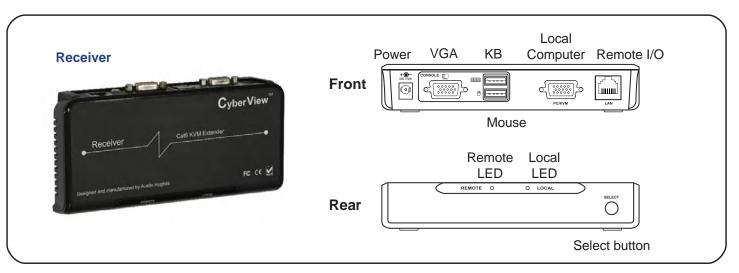


# **IP Console**

Resolution Support	Frequency (Hz)
1600 x 1200	60
1280 x 1024	60
1024 x 768	60 / 70 / 75

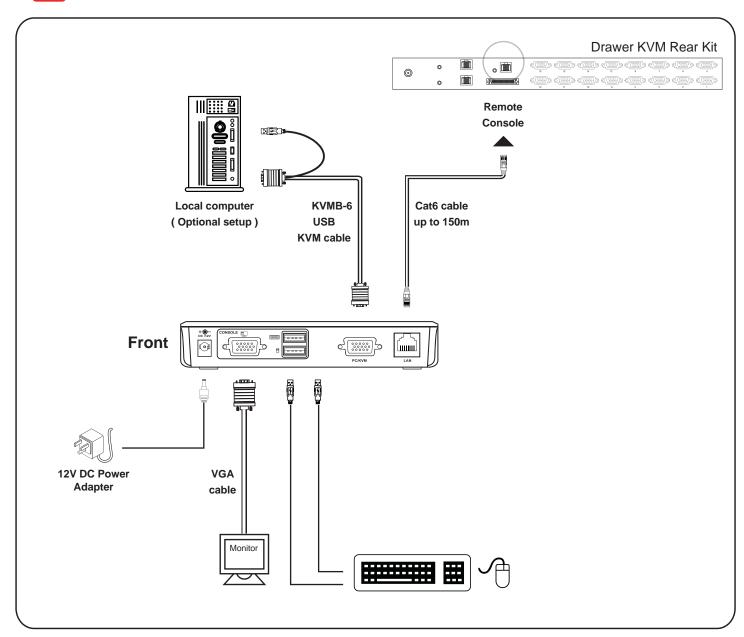
# **Remote Console**

Resolution Support	Frequency (Hz)	Max. Cat6 Cable Length ( M )
1920 x 1080	60	50
1600 x 1200	60	100
1440 x 900	60	100
1280 x 1024	60	150
1024 x 768	60 / 70 / 75	150





The receiver provides a hotkey function for remote console. Please refer to P.21



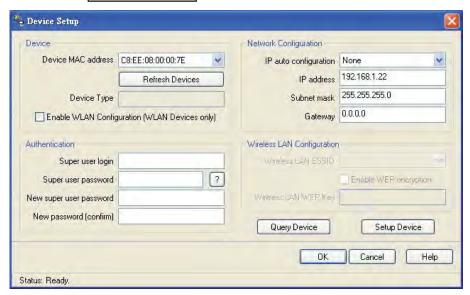
# < 1.4 > IP console setting

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

1. Download IPKVMsetup.exe from the link:

www.austin-hughes.com/support/utilities/cyberview/IPKVMsetup.exe

2. Double click IPKVMsetup.exe 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 M-IP1613 http://192.168.1.22
- The dual IP KVM model, such as M-IP1624 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.

If the users access KVM GUI via internet, please ask MIS for assistance and download IP KVM user manual from the link:

www.austin-hughes.com/support/usermanual/cyberview/UM-CV-IP.pdf



You must complete the following tasks after the IP console setting is performed.

# (1) TARGET SERVER SETUP \*\*Servers connected to KVM

### Resolution

The IP KVM remote console recognizes several varieties of video display formats with resolutions up to 1600 x 1200 @60Hz. (Refer to the User Manual for a list of supported video formats). Minimize bandwidth by setting the target server's video resolution to the minimum setting required for your remote monitoring application.

The following video modes are recommended:

- (i) 1024 x 768 @ 60Hz
- (ii) 1280 x 1024 @ 60Hz

On a Windows target server system, select Control Panel > Display > Settings. Modify the screen resolution value as necessary.

### Mouse

Use generic mouse drivers for optimum mouse control during remote sessions. Set the mouse pointer speed to a middle setting with no acceleration or snap-to effects.

On a Windows target server system, select Control Panel > Mouse > Pointer Options Set the pointer speed to medium and disable Enhanced pointer precision

For Linux GUIs, set the mouse acceleration to exactly 1 and the threshold to exactly 1.



If your keyboard keeps repeating keys when it is plugged into the KVM. Please follow either one below:

## (a.)

Enable key release timeout if you experience duplicated keystrokes during poor network performance.

- login to IP KVM remote console
- go to Interfaces KVM settings > Keyboard / Mouse
- click the Key Release Timeout
- adjust Timeout after if necessary

### (b.)

Reduce video bandwidth usage if you experience duplicated keystrokes during poor network

- login to IP KVM remote console
- go to Interfaces KVM Settings > User Console > Transmission Encoding,
- select Manually
- adjust Compression to [ 0-none ] and Color depth to [ 8-bit 256 col ]

# (2) REMOTE CLIENT COMPUTER SETUP

The remote client computer must have a web browser ( such as Microsoft Internet Explorer, Mozilla Firefox, and Netscape Navigator ) and a Java Virtual Machine ( version 1.4 or higher ) installed. Enable Java on the web browser.



# **JAVA Update for IP KVM**

Due to the latest update from Java security, customer may face the "JAVA Block" message while accessing the remote console over IP as below:

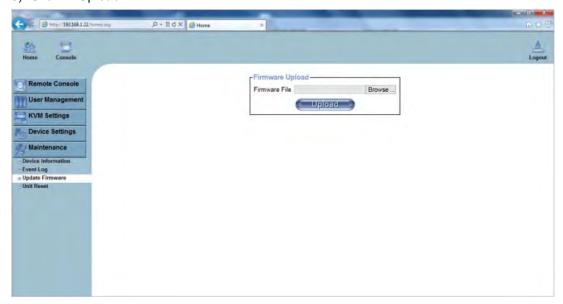


If it said so, please download the latest IP KVM firmware (version aust-i11-150608) from the link below: http://www.austin-hughes.com/resources/software/kvm-switch

Then follow the attached steps to update the firmware.

# **Firmware Update Steps**

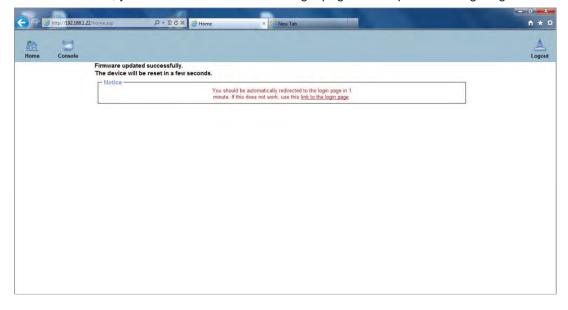
- Download the latest IP KVM firmware (version aust-i11-150608) from the link http://www.austin-hughes.com/resources/software/kvm-switch
- 2) Login the IP KVM
- 3) Click < Update Firmware >
- 4) Click < Browse > to select the firmware file
- 5) Click < Upload >



# 6) Click < Update >



After the firmware has been updated, IP KVM will reset automatically. After one minute, you will be redirected to the Login page and requested to login again.



- Completed

# < 1.6 > KVM Cascade

- Cascade up to 8 levels, 240 servers
- Cascading multiple KVM with CMC-8 cascade cable.



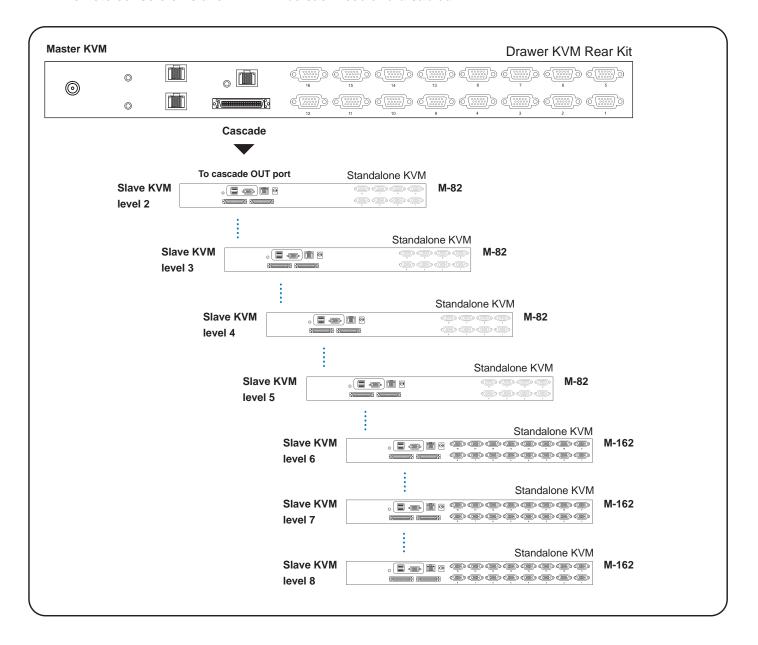
Cascaded KVMs from level 2 to 8 must be the models of M-82 / M-162 or Cat5M-216 / -232.



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**

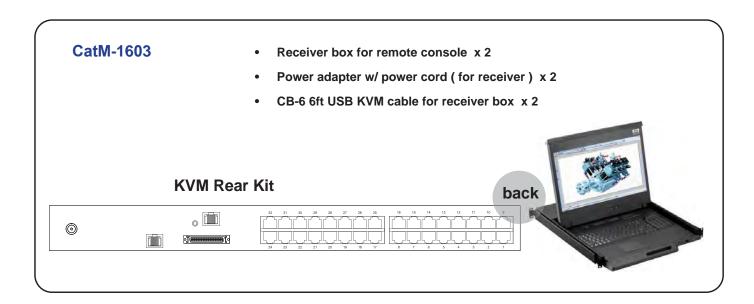
8ft Matrix KVM cascade cable

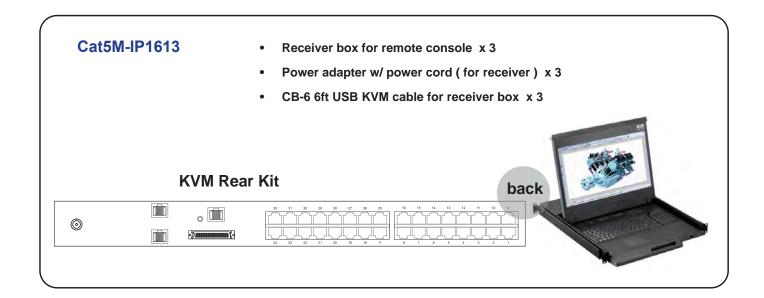
# < 1.7 > Specifications

	KVM-MIP813	KVM-MIP824
ı	KVM-MIP1613	KVM-MIP1624
KVM Port		
Number of ports :	8 or 16	
Connector:	DB-15 combo connector	
Connectivity:	USB 2-in-1 KVM cable	
•	up to 6, 10 & 15 feet	
Local Console :	Nil for LCD console drawer vers	ion
Cat6 Remote Console		
Number of remote port :	1	
Monitor port :	DB15-pin VGA	
Keyboard & mouse port :	2 x USB type connector for keyl	ooard & mouse
Remote I/O :	RJ45 via Cat5 / Cat5e / Cat6 ca	ble up to 500 feet
Resolution support :	4:3 - max. 1600 x 1200, 16:9 -	max. 1920 x 1080
IP Remote Console		
Number of IP console :	1 for -KVM-MIP813 / -MIP1613 2 for -KVM-MIP824 / -MIP1624	
User management :	15-user login, 1 x active user	
Browser:	Internet Explorer, Firefox, Safari	
Security:	SSL v3, RSA, AES, HTTP / HTT	TPs, CSR
IP Access :	RJ45 Ethernet per IP console	
Resolution support :	4:3 - max. 1600 x 1200	
Expansion:	Up to 240 servers by 8-level cas	scade
Compatibility		
Hardware :	HP / IBM / Dell PC, Server a SUN / Mac	and Blade Server
OS Support :	Windows / Linux / Unix / Ma	ic OS
Power		
Input:	AC power adapter	
Consumption:	Max. 29W	
Regulatory		
Safety:	FCC & CE certified	
Environment:	RoHS2 & REACH compliant	
Environmental	Operating	Storage / Non-operating
Temperature :	0 to 55°C degree	-20 to 60°C degree
Humidity:	20~90%, non-condensing	5~90%, non-condensing
Altitude :	16,000 ft	40,000 ft
Shock:	-	10G acceleration (11ms duration)
Vibration :	<u>-</u>	5~500Hz 1G RMS random

# < 2.1 > Package Contents

# -Cat5-M1602 • Receiver box for remote console x 1 • Power adapter w/ power cord ( for receiver ) x 1 • CB-6 6ft USB KVM cable for receiver box x 1 KVM Rear Kit

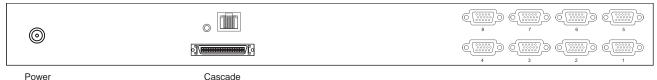




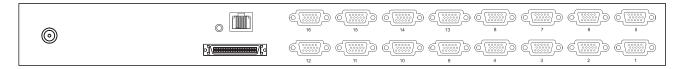
# Matrix DB-15 KVM

# -M82

# Remote Console 1



# -M162

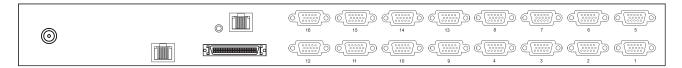


# -M813

### Remote Console 1



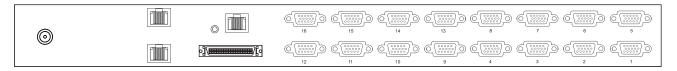
# -M1613

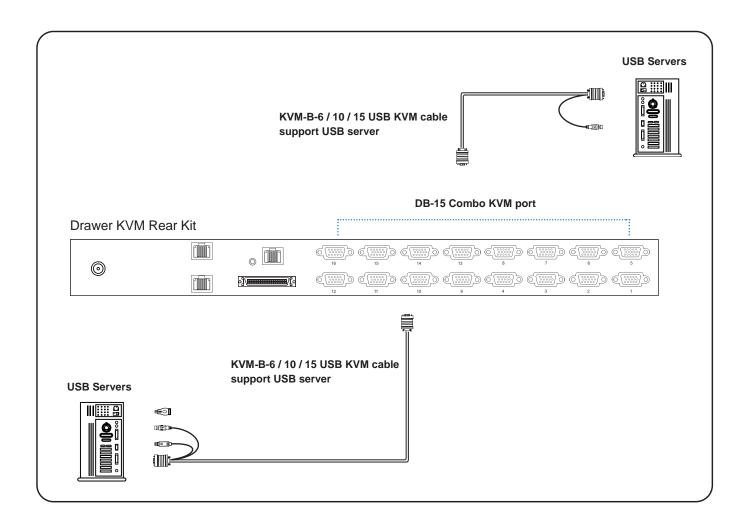


# -M814



# -M1614

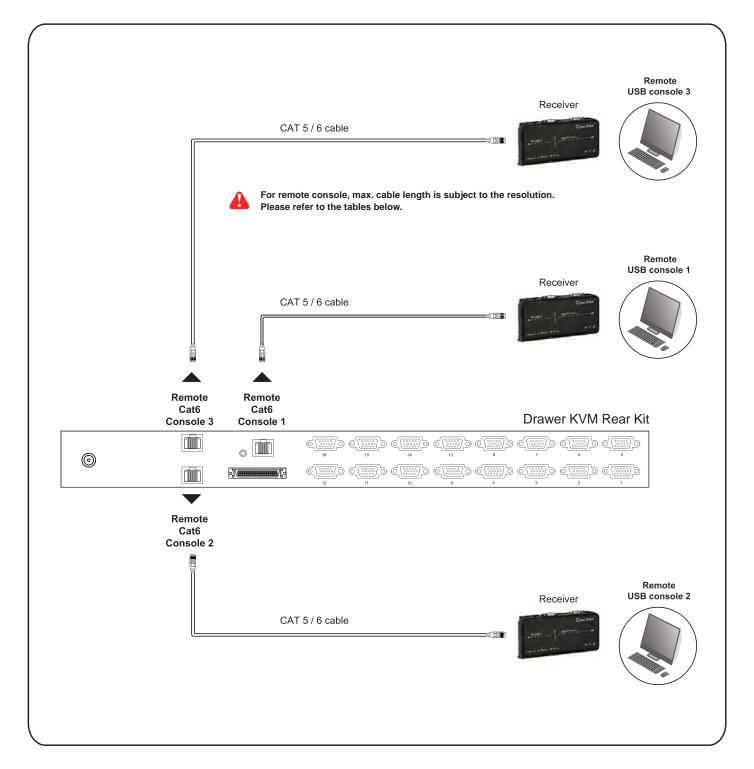




# KVMB-6 / -10 / -15

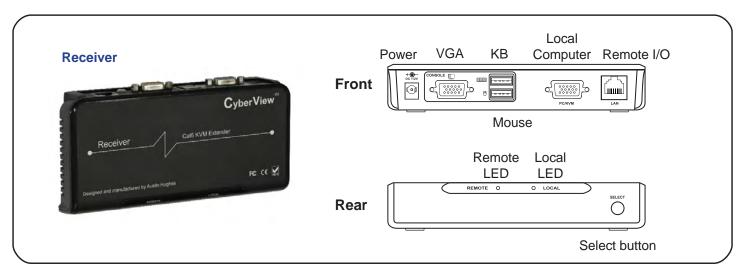
- 6 / 10 / 15 ft USB KVM cable
- Support USB server





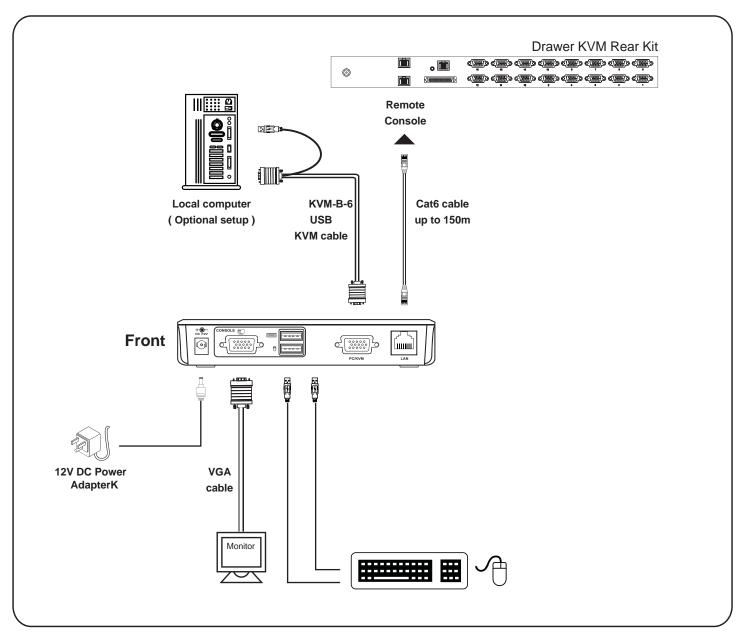
# **Remote Console**

Resolution Support	Frequency (Hz)	Max. Cat6 Cable Length ( M )
1920 x 1080	60	50
1600 x 1200	60	100
1440 x 900	60	100
1280 x 1024	60	150
1024 x 768	60 / 70 / 75	150





The receiver provides a hotkey function for remote console. Please refer to P.21



# < 2.4 > KVM Cascade

- Cascade up to 8 levels, 240 servers
- Cascading multiple KVM with CMC-8 cascade cable.



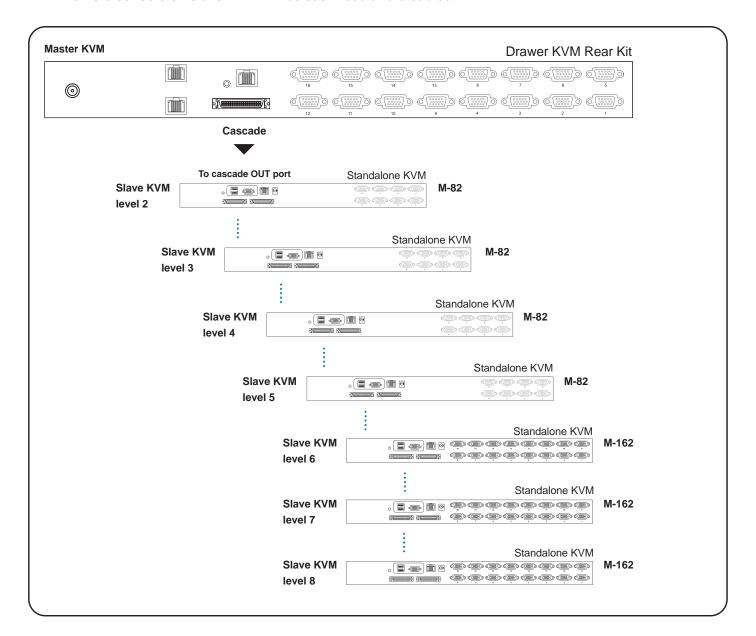
Cascaded KVMs from level 2 to 8 must be the models of M-82 / M-162



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**

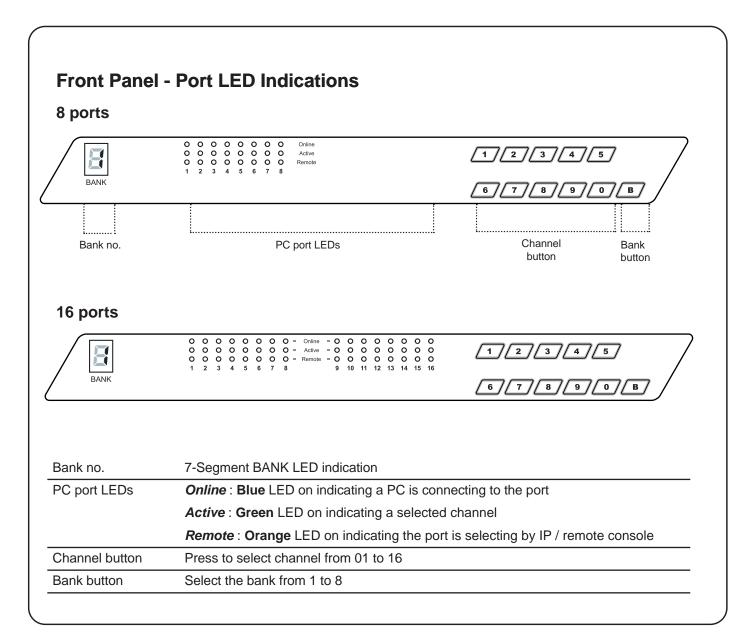
■ 8ft Matrix KVM cascade cable

		-M82	-M83	-M84
	-N	1162	-M163	-M164
	KVM Port			
	Number of ports :	8 or 16		
	Connector:	DB-15 com	bo connector	
	Connectivity:	USB 2-in-1		
		up to 6, 10		
	Local Console :	Nil for LCD	console drawer	version
	Cat6 Remote Console			
	Number of remote port :	1 for -M802	?/-M1602	
		2 for -M803		
	NA - Manager	3 for -M804		
	Monitor port:	DB15-pin V		Loub a and 9 may a
	Keyboard & mouse port : Remote I/O :			keyboard & mouse
	Resolution support :			6 cable up to 500 feet 6:9 - max. 1920 x 1080
	Expansion:		servers by 8-leve	
	-	Op to 240 3	ervers by 0-leve	lacascade
_	Compatibility	LID / IDA	4 / Dall DO O	and the lands of t
	Hardware:	HP / IBN SUN / Ma		ver and Blade Server
	OS Support :		Linux / Unix /	Mac OS
-	Power			
	Input:	AC power a	adapter	
	Consumption :	Max. 16W	•	
	Regulatory			
	Safety:	FCC & CE	certified	
	Environment :	RoHS2 & R	REACH complian	nt
	Environmental	Operating		Storage / Non-operating
	Temperature :	0 to 55°C d	egree	-20 to 60°C degree
	Humidity:	20~90%, no	on-condensing	5~90%, non-condensing
	Altitude :	16,000 ft		40,000 ft
	Shock:	-		10G acceleration (11ms duration)
	Vibration:	-		5~500Hz 1G RMS random

# 3.1 KVM Button

# **Power ON**

- 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



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

# **■** Enable password

- 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)
- 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"
- 5. 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
- Call KVM OSD menu by pressing the KVM hotkey Scroll Lock + Scroll Lock + Space Bar
- 3. Press **F1** to the MAIN MENU
- 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
- 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	F1: MENU F2: LOGOUT F3: PREV ESC: QUIT ENTER: COMPLETE ♠/♣: SELECT PgUp/PgDn: 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 nex	t bank
1/2/3/4	Display port 01 ~ 08 / 09 ~ 16 Remark: Display port 17 ~ 32	

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

<b>Local Console Hotke</b>	у	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 +		Activate auto-scan mode for connected servers *Press any key to exit the auto-scan mode
Scroll Lock + Scroll Lock +		Activate auto-scan mode for connected servers *Press any key to exit the auto-scan
Scroll Lock + Scroll Lock +	S	Activate auto-scan mode for connected 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

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