

User Manual





751

Designed and manufactured by Austin Hughes

Legal Information

First English printing, October 2018

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:

_	- J-,
	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.

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< Part 2 > Matrix DB-15 KVM

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M-802	M-803	M-804
M-1602	M-1603	M-1604

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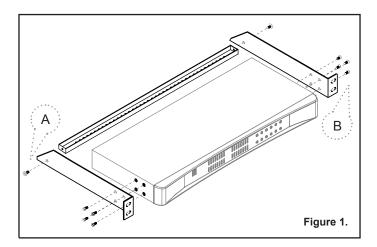
Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

Installation for standalone KVM



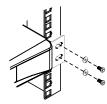
Screw A: 2 pcs

M3.2 x 4.5 mm

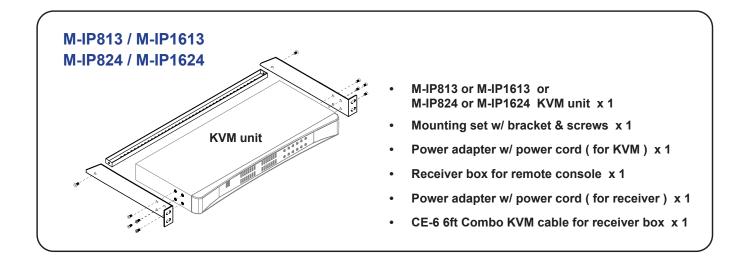


■ Install each bracket using screws provided shown in **Figure 1**.

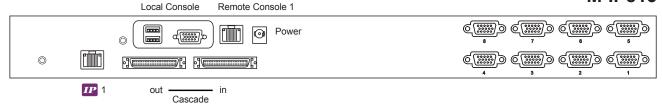
■ Fix the KVM into the rack



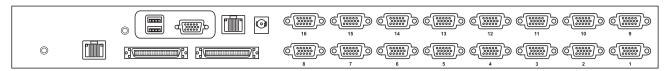
Matrix DB-15 IP KVM

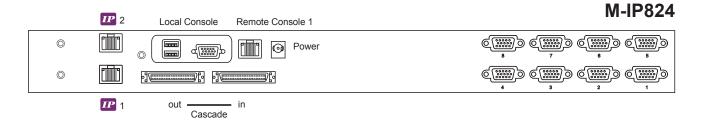


M-IP813

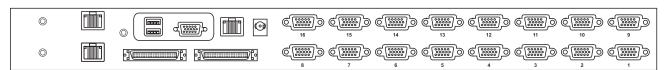


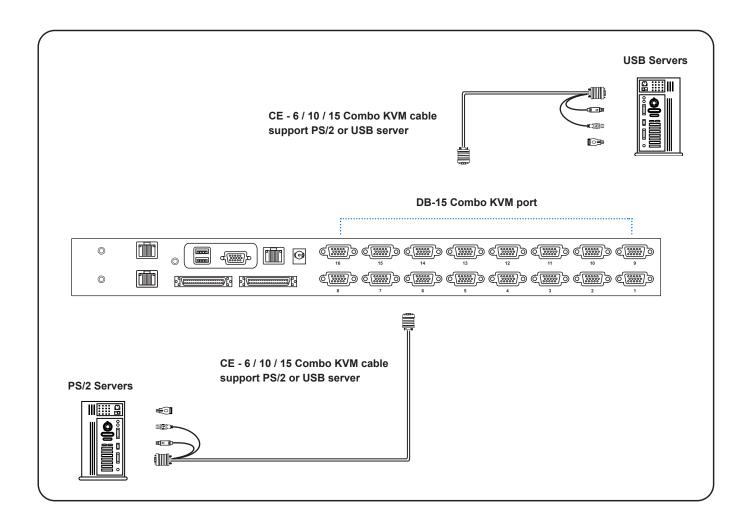
M-IP1613





M-IP1624

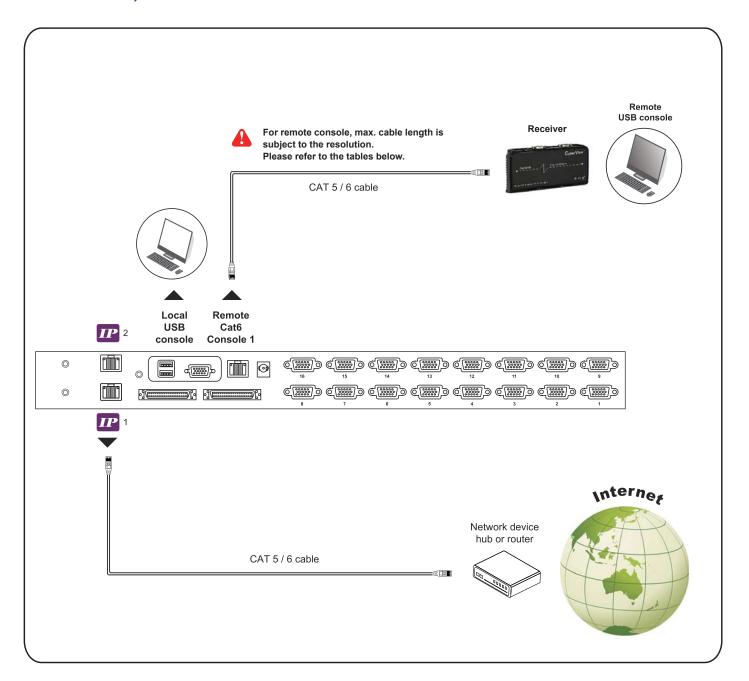




CE-6 / CE-10 / CE-15

- 6 / 10 / 15 ft Combo KVM cable
- Support PS/2 or USB server



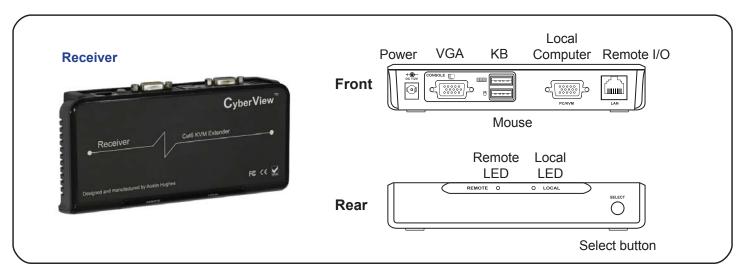


Remote Console

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

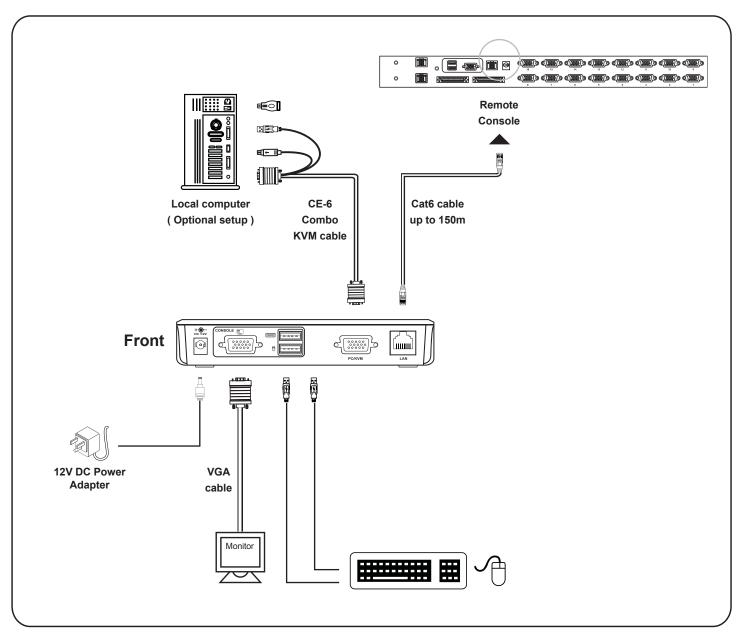
IP Console

Resolution Support	Frequency (Hz)
1600 x 1200	60
1280 x 1024	60





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



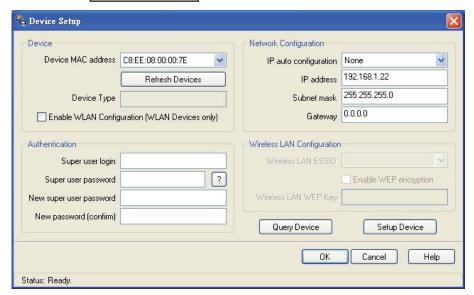
< 1.4 > IP console setting

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]

< 1.5 > Important Preconfiguration for IP console

(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:

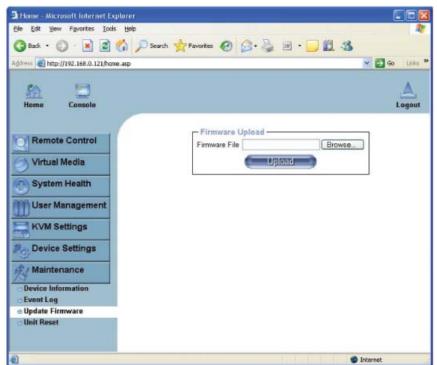


If it said so, please download the latest IP KVM firmware (version aust-i11-150608) from the link below : http://www.austin-hughes.com/resources/software/kvm-switch

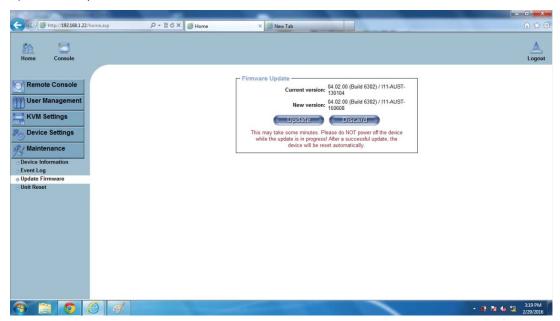
Then follow the attached steps to update the firmware.

Firmware Update Steps

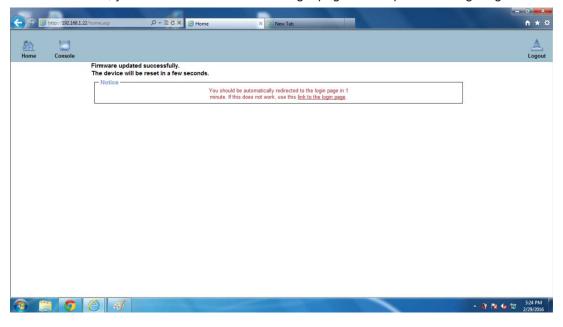
- 1) Download the latest IP KVM firmware (version aust-i11-150608) from the link http://www.austin-hughes.com/resources/software/kvm-switch
- 2) Login the IP KVM
- 3) Click < Update Firmware >
- 4) Click < Browse > to select the firmware file
- 5) Click < Upload >



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.



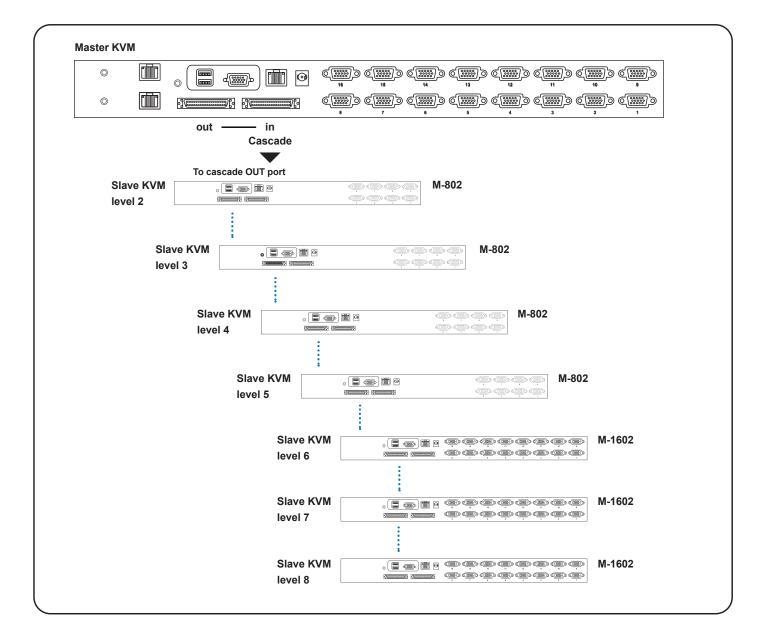
Cascaded KVMs from level 2 to 8 must be the models of M-802 / M-1602 or MU-1602 / MU-3202.



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.



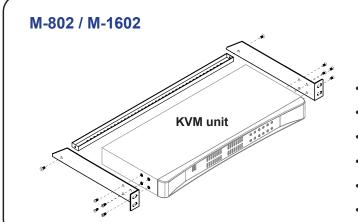


CMC-8

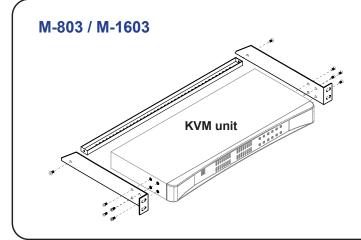
8ft Matrix KVM cascade cable

< 1.7 > Specifications

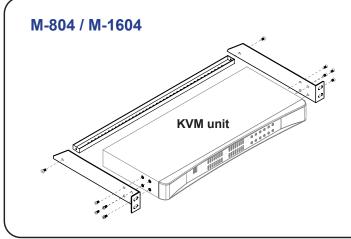
	M-IP813	M-IP824
	M-IP1613	M-IP1624
KVM Port	INI-IF IO IO	WI-IF 1024
Number of ports :	8 or 16	
Connector:	DB-15 combo connector	
Connectivity:	Combo 4-in-1 KVM cable up	to 6, 10 & 15 feet
Local Console	Combo 4-in- i Kvivi cable up	10 0, 10 & 15 leet
Monitor port :	1 x DB-15 VGA	
Keyboard & mouse port		rouboard 9 mouse
,	2 x USB type connector for k4:3 - max. 1600 x 1200, 16	-
Resolution support : Cat6 Remote Console	4.3 - Max. 1600 x 1200, 16	5.10 - 11lax. 1920 x 1200
Number of remote port :	1	
•	•	
Monitor port :	DB15-pin VGA	coulo a and O mague a
Keyboard & mouse port	• •	-
Remote I/O :	RJ45 via Cat5 / Cat5e / Cat6	•
Resolution support : IP Remote Console	4:3 - max. 1600 x 1200, 16	5.10 - Max. 1920 x 1200
Number of IP console :	4 for M ID942 / M ID4642	
Number of its console.	1 for M-IP813 / M-IP1613 2 for M-IP824 / M-IP1624	
User management :	15-user login, 1 x active user	r
Browser:	Internet Explorer, Firefox, Sa	
Security:	SSL v3, RSA, AES, HTTP / F	
IP Access :	RJ45 Ethernet per IP consol	
Resolution support :	4:3 - max. 1600 x 1200	
Expansion :	Up to 240 servers by 8-level	cascade
Compatibility	.,	
Hardware :	HP / IBM / Dell PC, Serv	vor and Plado Sanvor
Tialuwale .	SUN / Mac	ver and blade Server
OS Support :	Windows / Linux / Unix /	Mac OS
Power	Villague / Elliax / Gliix /	
Input:	AC power adapter	
Consumption :	Max. 29W	
Regulatory	Wax. 25VV	
Safety:	cUL, 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 :	-	5~500Hz 1G RMS random
Product Information		0 - 4 - 0 : 1
Dimension (W x D x H):		(6.7 x 1.73 inch
Net weight :	3 kg / 6.5 lb	
Packing Information		
Dimension (W x D x H):		(15.7 x 3.5 inch
Gross weight:	5 kg / 11 lb	



- M-802 or M-1602 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power adapter w/ power cord (for KVM) x 1
- Receiver box for remote console x 1
- Power adapter w/ power cord (for receiver) x 1
- CE-6 6ft Combo KVM cable for receiver box x 1



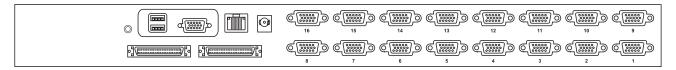
- M-803 or M-1603 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power adapter w/ power cord (for KVM) x 1
- Receiver box for remote console x 2
- Power adapter w/ power cord (for receiver) x 2
- CE-6 6ft Combo KVM cable for receiver box x 2



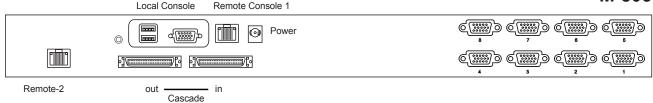
- M-804 or M-1604 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power adapter w/ power cord (for KVM) x 1
- Receiver box for remote console x 3
- Power adapter w/ power cord (for receiver) x 3
- CE-6 6ft Combo KVM cable for receiver box x 3

Local Console Remote Console 1 Power out Cascade in

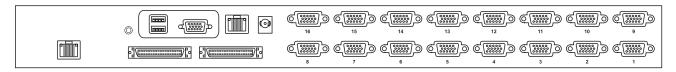
M-1602



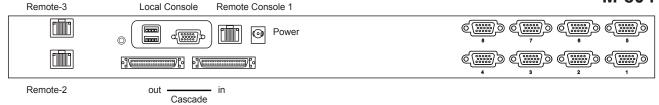
M-803



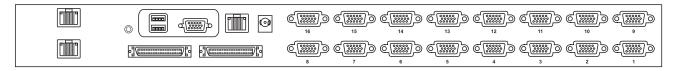
M-1603

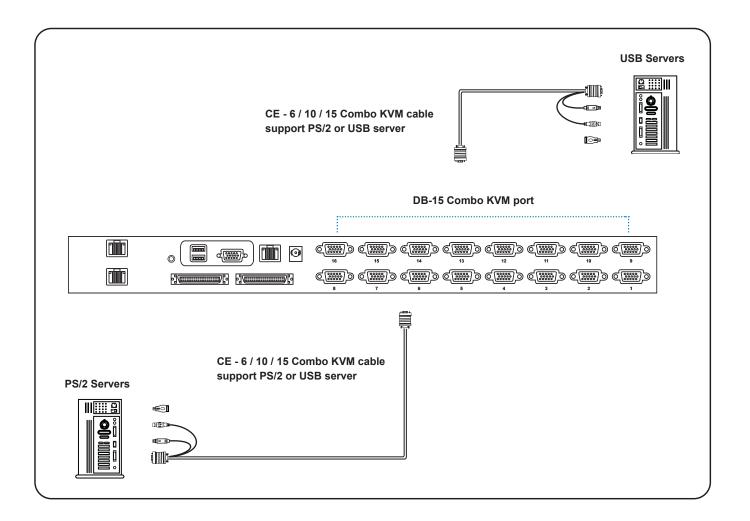


M-804



M-1604

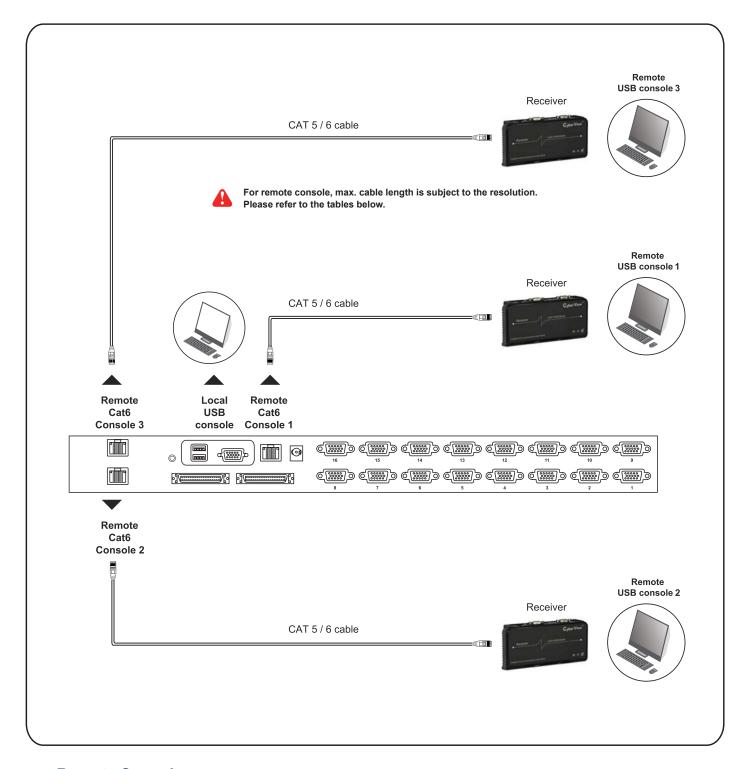




CE-6 / CE-10 / CE-15

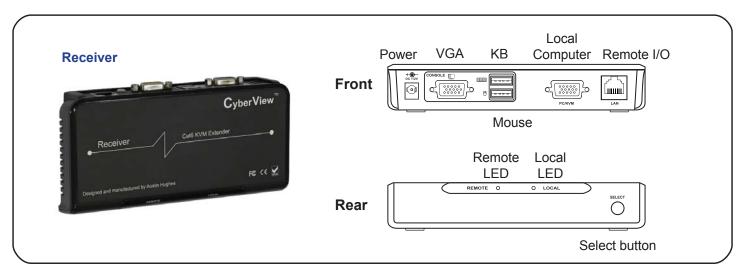
- 6 / 10 / 15 ft Combo KVM cable
- Support PS/2 or USB server





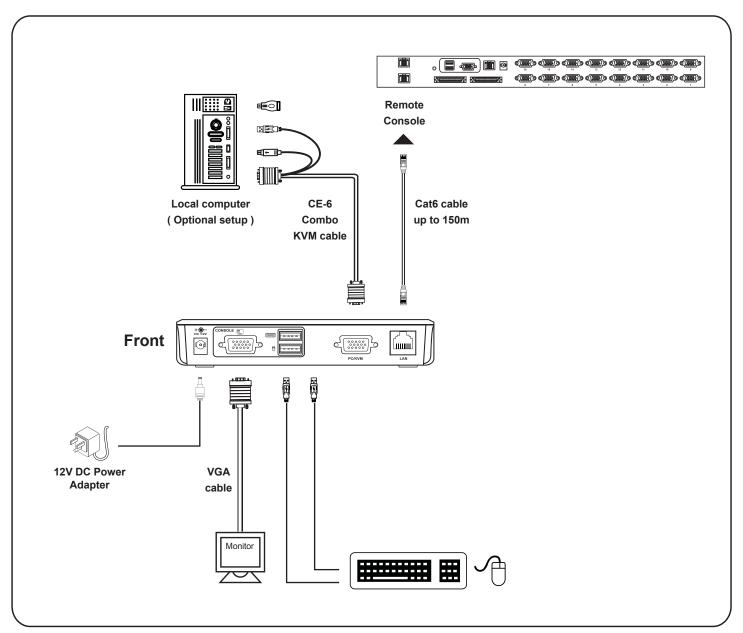
Remote Console

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



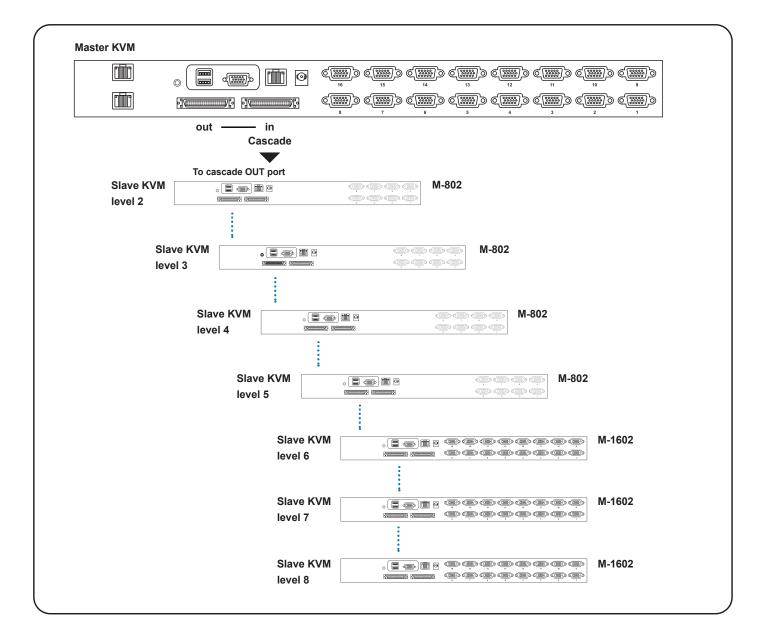
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When multiple matrix KVMs cascade together, the master KVM at level 1 will take all control of other slave KVM switches (e.g. level 2 to 8).



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.





CMC-8

■ 8ft Matrix KVM cascade cable

M-803 M-804 M-802 M-1602 M-1604 M-1603 KVM Port Number of ports: 8 or 16 Connector: DB-15 combo connector Connectivity: Combo 4-in-1 KVM cable up to 6, 10 & 15 feet Local Console Monitor port : 1 x DB-15 VGA Keyboard & mouse port : 2 x USB type connector for keyboard & mouse Resolution support : 4:3 - max. 1600 x 1200, 16:10 - max. 1920 x 1200 Cat6 Remote Console Number of remote port : 1 for M-802 / M-1602 2 for M-803 / M-1603 3 for M-804 / M-1604 Monitor port : DB15-pin VGA Keyboard & mouse port : 2 x USB type connector for keyboard & mouse RJ45 via Cat5 / Cat5e / Cat6 cable up to 500 feet Remote I/O: 4:3 - max. 1600 x 1200, 16:10 - max. 1920 x 1200 Resolution support : Expansion : Up to 240 servers by 8-level cascade Compatibility Hardware: HP / IBM / Dell PC, Server and Blade Server SUN / Mac Windows / Linux / Unix / Mac OS OS Support: Power AC power adapter Input: Max. 16W Consumption: Regulatory Safety: cUL, 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: 5~500Hz 1G RMS random Product Information Dimension (W x D x H): 443 x 171 x 44 mm / 17.4 x 6.7 x 1.73 inch Net weight: 3 kg / 6.5 lb Packing Information

Gross weight:

Dimension (W x D x H):

500 x 400 x 90 mm / 19.7 x 15.7 x 3.5 inch

5 kg / 11 lb

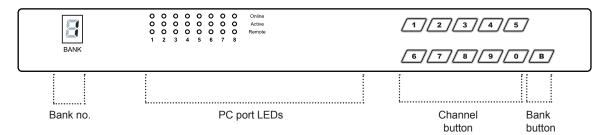
3.1 KVM Button

Power ON

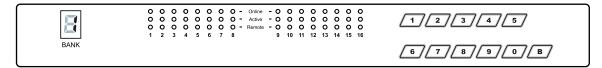
- Turn off all servers and KVM switches
- Make sure all cables / connectors are properly connected
- Recommend Power ON sequence is monitor, KVM switch finally computer

Front Panel - Port LED Indications

8 ports



16 ports



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 16	
Bank button	Select the bank from 1 to 8	

3.2 Password

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)
- 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

- 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
- 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
- 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 F1: MENU 01☼ SYSTEM 01 🖘 F2: LOGOUT 02☼ SYSTEM 02 F3: PREV 03☼ SYSTEM ESC: QUIT 03 04☼ SYSTEM **ENTER: COMPLETE** 04 05☆ SYSTEM **↑**/**↓**: SELECT 05 06☆ SYSTEM PqUp/PqDn: 06 07☆ SYSTEM **BANK SELECT** 07 08☆ SYSTEM 08 USER: SUPERVISOR SCAN TIME : 10 SEC FW1V3 **OSD** operation next to the system name The PC is powered on next to the system name The PC is selected Access F1 MAIN MENU F1 F2 Logout the OSD menu F3 Previous menu Cancel / Quit **Esc** Complete / Switch to selected port **Enter 1**/ Switch to previous or next port PgUp/PgDn Switch to previous bank or next bank Display port 01 ~ 08 / 09 ~ 16 / 17 ~ 24 / 25 ~ 32 1/2/3/4 Remark: Display port 17 ~ 32 for 32 port model only

F1 Main Menu	MAIN MENU	₹ X
i i maiii meila		~ ~ ^
	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 Hotke	у	Function
Scroll Lock + Scroll Lock +	Space Bar	Calling OSD menu
Right-button mouse + Esc		Calling OSD menu
Scroll Lock + Scroll Lock +	†	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
Scroll Lock + Scroll Lock + 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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