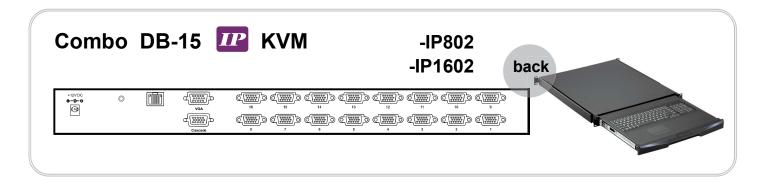
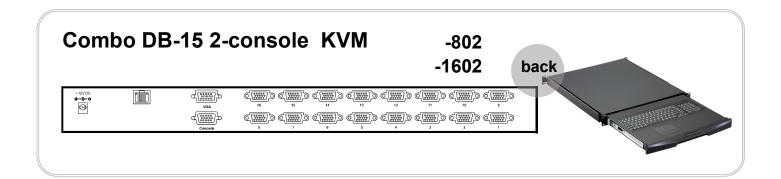
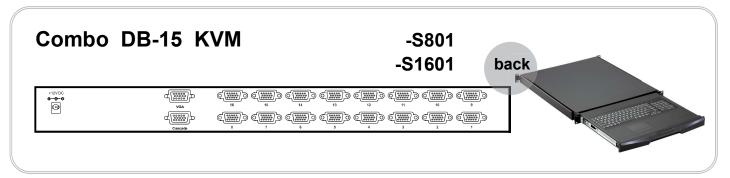


User Manual - KVM Rear Kit Version for RK-1 Rack Keyboard Drawer







Designed and manufactured by Austin Hughes

751

Legal Information

First English printing, January 2023

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.
Г	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.

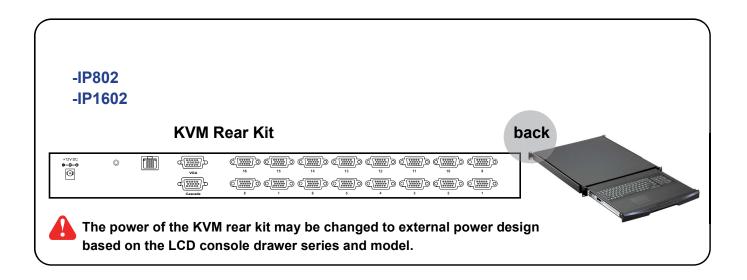
Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

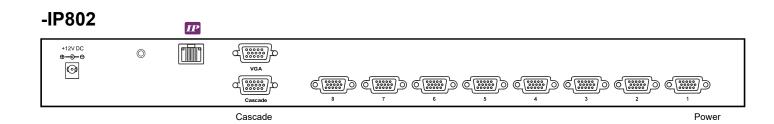
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one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

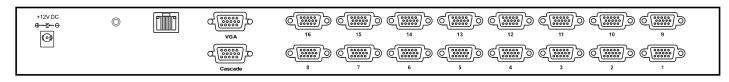
Contents

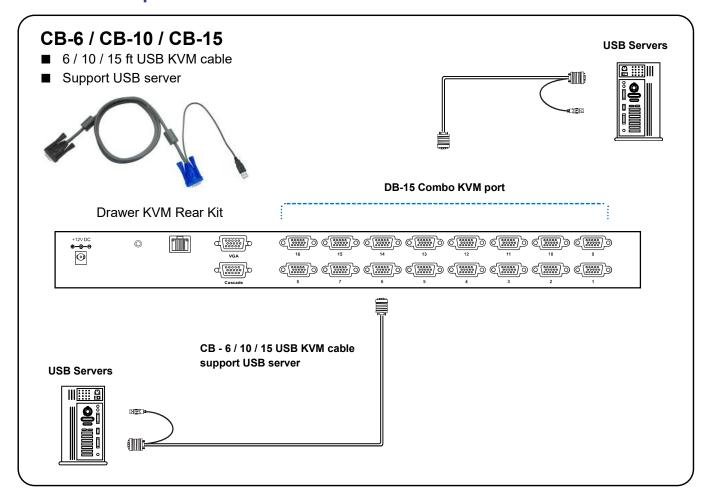
< Part. 1 >	Combo DB	-15 IP KVM		
	-IP802	-IP1602		
1.1	Package Cor	ntents		
1.2	KVM port cor			
1.3	IP console co	onnection		
1.4	Connect to IF	console		
1.5	IP Console F	irmware Update	Э	Э
1.6	KVM Cascad	-		
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< Part. 2 >	Combo DB	-15 2-console	KVM	KVM
	-802	-1602		
2.1	KVM Cascad	е		
2.2	KVM port cor	nnection		
2.3	Remote cons	sole connection		
2.4	KVM Cascad	е		
2.5	Specification	S		
< Part. 3 >	Combo DB	-15 KVM		
	-S801	-S1601		
3.1	Package Cor	ntents		
3.2	KVM port cor	nnection		
3.3	KVM Cascad			
3.4	Specification	S		
< Part. 4 >	Combo DF	3-15 KVM Usa	iue	nue
4.1	Password	, 10 KVIII 03a	y c	y c
4.1 4.2	KVM OSD			
		9 Dometa Can	aala Hatkay	aala Hatkay
4.3		& Remote Con	•	•
4.4	DC Power O	puon : 12V / 24	V / 48V / 125V / 250V	V / 48V / 125V / 25UV

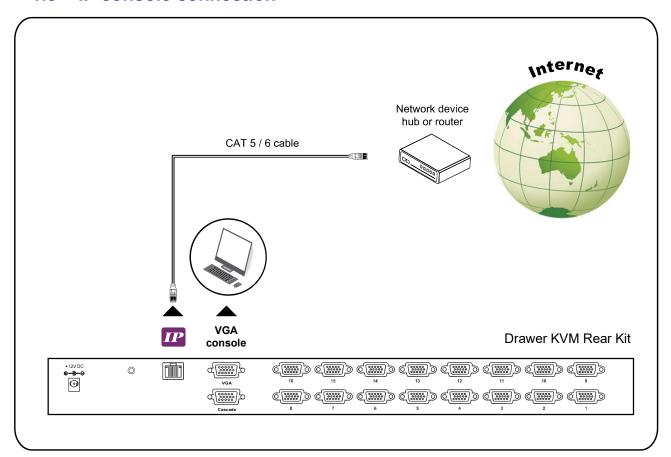




-IP1602







IP Console

Resolution Support	Frequency (Hz)
1920 x 1080	60
1920 x 1200	60
1600 x 1200	60
1280 x 1024	60
1024 x 768	60



Please make sure to follow the below steps to setup your KVM IP properly.

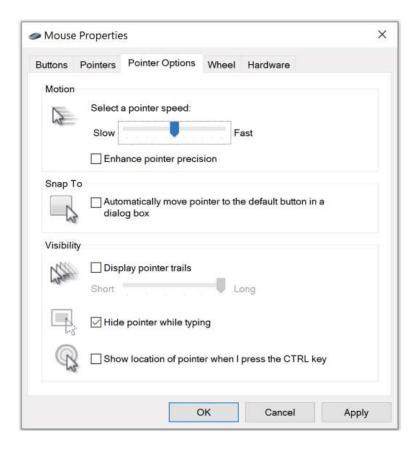
I. Configure the target server

The target server is the server that connected to the IP KVM Switch. Before use IP remote access, you need to turn off mouse acceleration of all target servers. Please refer to below for Windows operating system.

Mouse setting

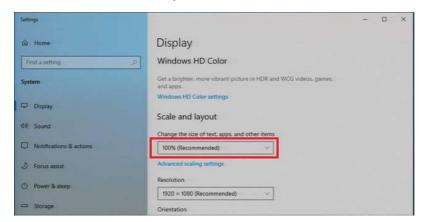
From the Control Panel, double-click the Mouse icon to open the Mouse Properties dialog box.

- Move the pointer speed slider to the default of 50%.
 (the middle of the slider or the sixth tick from the left).
- 2. Uncheck "Enhance pointer precision".
- 3. Uncheck "Automatically move pointer to the default button in a dialog box" & "Display pointer trails".
- 4. Windows enables mouse acceleration by default. Make sure you are logged in to windows to check mouse synchronization.
- 5. Mouse acceleration can only be turned off on a per Windows user basis. If you log in to Windows with a different user name, then you will have to configure mouse properties separately for that user as well.



Change display scaling setting 100%

- 1. Open Settings.
- 2. Click on System.
- 3. Click on Display.
- 4. Under the "Scale and layout" section, select the scale 100%.



II. Logging in to IP KVM

The default IP address is as below:

IP address: 192.168.1.22 Subnet mask: 255.255.255.0 Gateway: 192.168.1.1

IP KVM model with single IP port:
- Default address 192.168.1.22

IP KVM model with dual IP ports:

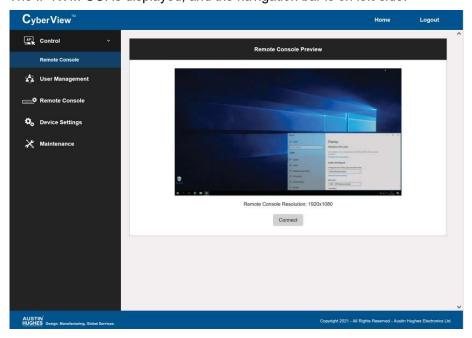
- The 1st IP address 192.168.1.22
- The 2nd IP address 192.168.1.23

To log in to the IP KVM do as follows:

1. Open the browser on the client, in the address bar, enter the default IP KVM address (192.168.1.22)



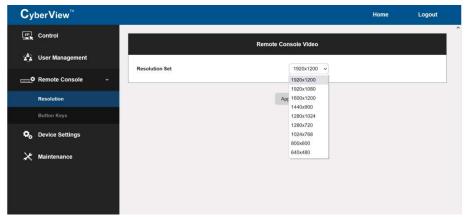
- In login dialog box, enter the user name and password, then click Login, the default user name is super and the default password is pass.
- 3. The IP KVM GUI is displayed, and the navigation bar is on left-side.



III. Configure Remote Console Resolution

The IP remote console displayed on the HTML5-based browser support multiple types of resolution, with a maximum of 1,920 x 1,200.

Click **Remote Console** and then **Resolution**, the Remote Console Video page is displayed, select the same resolution as target servers, click **Apply** to save the resolution.





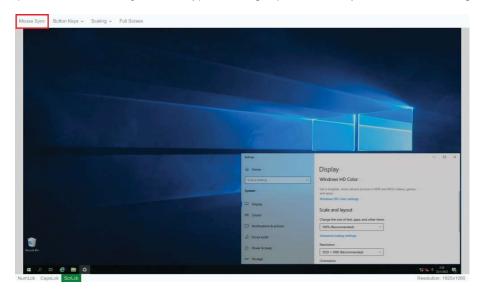
The setting is enough for intranet.

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

IV. Launch remote console

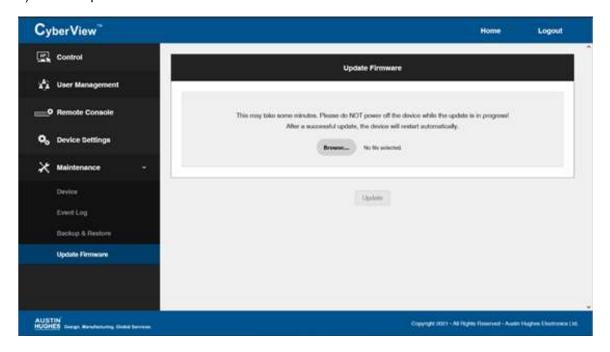
Click **Control** and then **Remote console**, the Remote console Preview is displayed, then Click **Connect**, the remote console opens in a separate windows.

When first start, the local mouse is not synchronized with the remote mouse, it appears at a distance to each other, press the **Mouse Sync** once (positioning top left corner), the mouse will align.



Firmware Update Steps

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



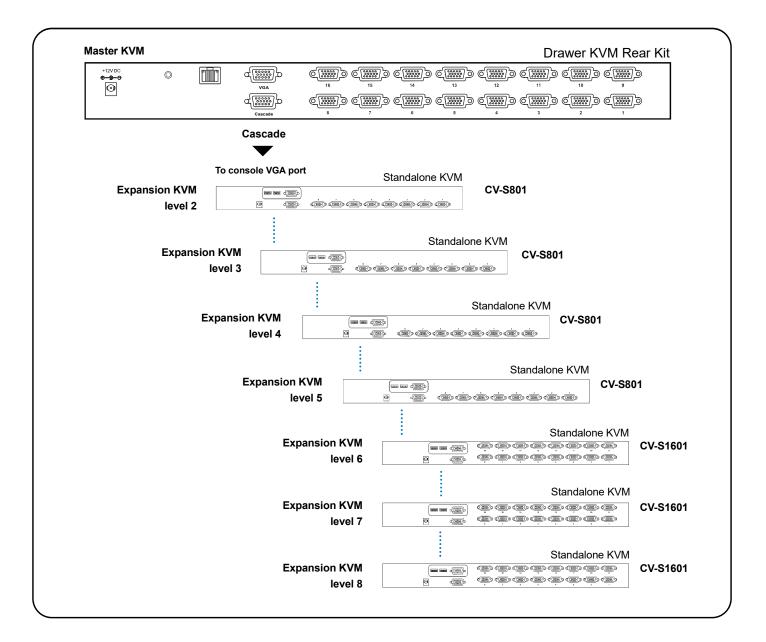
- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with CBC-6 cascade cable.



Cascaded KVMs from level 2 to 8 must be the models of CV-S801 / CV-S1601.



When multiple combo DB-15 KVMs cascade together, the master KVM at level 1 will take all control of other Expansion KVM switches (e.g. level 2 to 8).





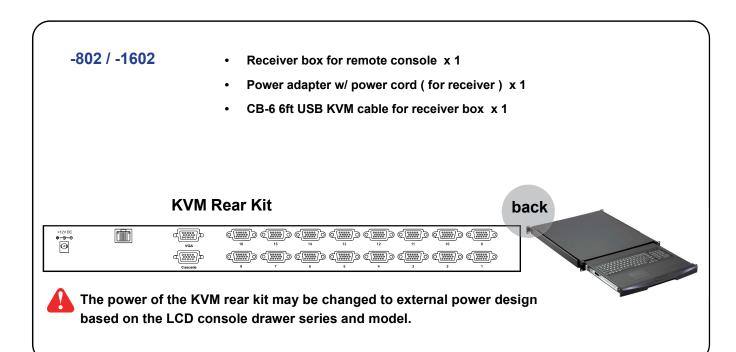
CBC-6

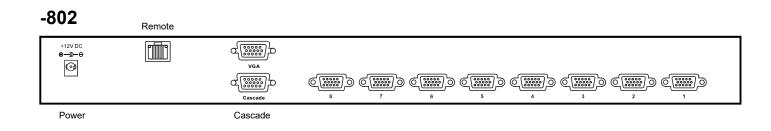
■ 6ft Combo KVM cascade cable

< 1.7 > Specifications

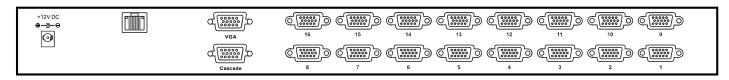
		-IP802 -IP1	602		
	KVM Port				
	Number of ports :	8 or 16			
	Connector :	DB-15 combo connector			
	Connectivity:	USB 2-in-1 KVM cable, up to 6,	10 & 15 feet		
	Local Console :	Nil for LCD console drawer vers	sion		
	IP Remote Console				
	Connector:	RJ45 Ethernet			
	User management :	15-user login, 1 x active user			
	Network protocol :	DHCP / BOOTP / DNS			
	Security:	TLS 1.3, AES, LDAP, Active Dire	ectory (AD), HTTP(s)		
	Browser:	Chrome, Firefox, Edge, etc.			
	Resolution support :	16: 9 - max. 1920 x 1080			
		16:10 - max. 1920 x 1200			
		4: 3 - max. 1600 x 1200			
-	Expansion:	Up to 128 servers by 8-level cas	scade		
	Compatibility				
	Hardware :	HP / IBM / Dell PC, Server and Blade Server SUN / Mac			
	OS Support :	Windows / Linux / Unix / Mac OS			
	Power				
	Input:	Auto sensing 100 to 240VAC, 5	0 / 60 Hz		
	Option DC :	12V / 24V / 48V / 125V DC inpu	ıt		
	Consumption :	Max. 19W			
	Compliance				
	EMC:	FCC & CE			
	Safety :	CE / LVD & UKCA			
	Environment :	RoHS3 & REACH / WEEE			
	Environmental	Operating	Storage / Non-operating		
	Temperature :	0 to 55°C degree	-20 to 60°C degree		
	Humidity:	10~90%, non-condensing	5~90%, non-condensing		
	Altitude :	16,000 ft	40,000 ft		
	Shock:	-	10G acceleration (11ms duration)		
	Vibration :	-	10~300Hz 0.5G RMS random vibration		

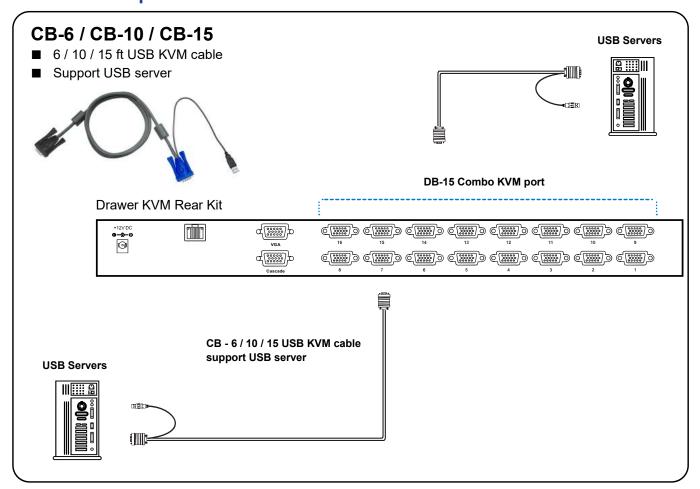
< 2.1 > Package Contents

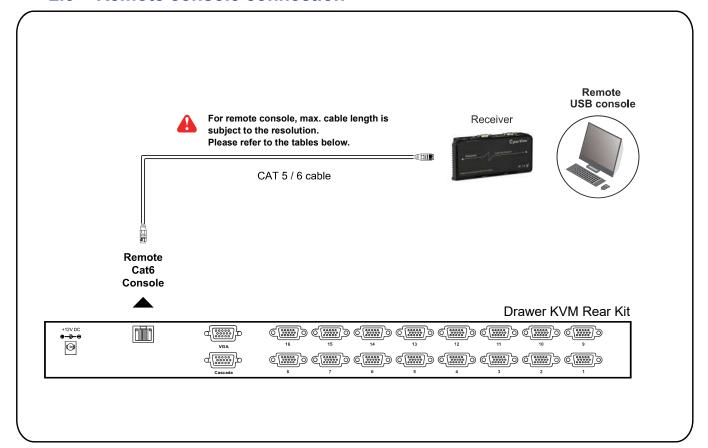




-1602



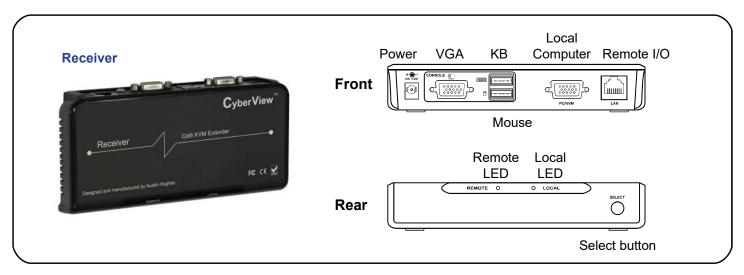




Remote Console

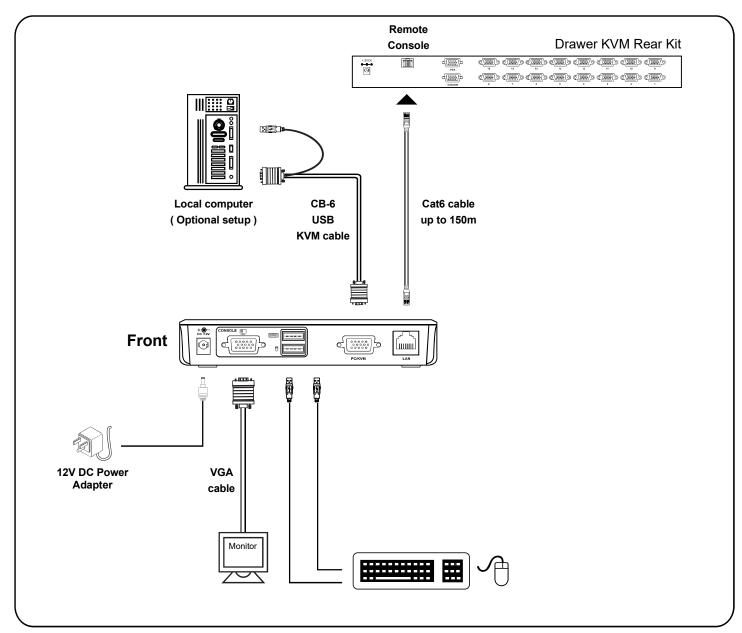
Resolution Support	Frequency (Hz)	Max. Cat6 Cable Length (M)	
1920 x 1080	60	50	
1920 x 1200	60	50	
1600 x 1200	60	100	
1440 x 900	60	100	
1280 x 1024	60	150	
1024 x 768	60 / 70 / 75	150	

How to use a receiver to connect a remote console Combo DB-15 2-console KVM





The receiver provides a hotkey function for remote console. Please refer to P.23



< 2.4 > KVM Cascade

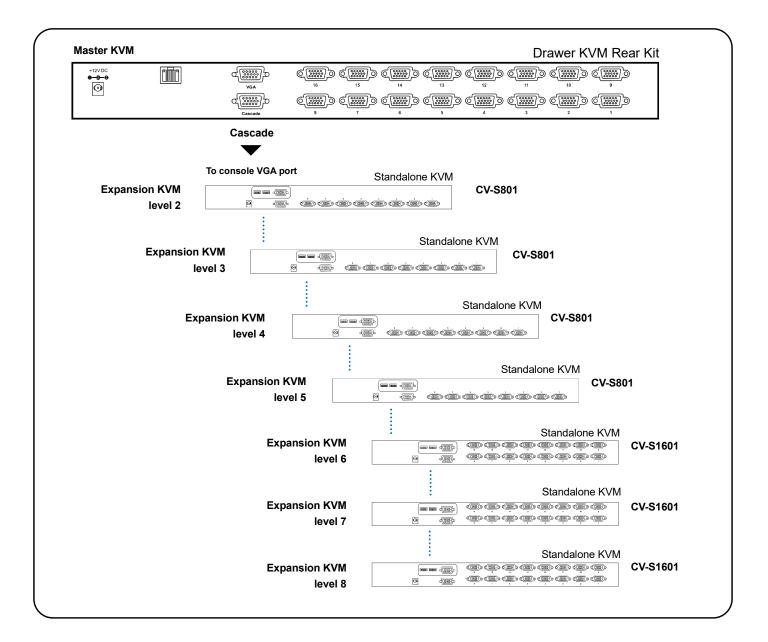
- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with CBC-6 cascade cable.



Cascaded KVMs from level 2 to 8 must be the models of CV-S801 / CV-S1601.



When multiple combo DB-15 KVMs cascade together, the master KVM at level 1 will take all control of other Expansion KVM switches (e.g. level 2 to 8).





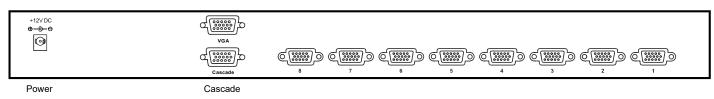
CBC-6

■ 6ft Combo KVM cascade cable

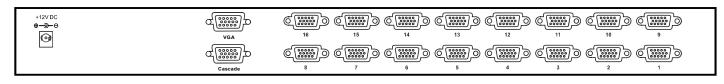
	-802	-1602		
KVM Port				
Number of ports :	8 or 16			
Connector:	DB-15 combo connector			
Connectivity:	USB 2-in-1 KVM cable, up to 6,	, 10 & 15 feet		
Local Console :	Nil for LCD console drawer vers	sion		
Remote Console				
Connector:	1 x DB 15-pin, VGA			
Input device :	2 x USB type A for keyboard &	mouse		
Remote I/O :	RJ45 via Cat5 / Cat5e / Cat6 ca	able up to 150m		
Compensation :	Auto adjust for cable length			
Resolution support :	16:9 - max. 1920 x 1080			
	16:10 - max. 1920 x 1200			
	4:3 - max. 1600 x 1200			
Expansion :	Up to 128 servers by 8-level ca	scade		
Compatibility				
Hardware :	HP / IBM / Dell PC, Server and Blade Server SUN / Mac			
OS Support :	Windows / Linux / Unix / Mac OS			
Power				
Input :	Auto sensing 100 to 240VAC, 5	50 / 60 Hz		
Option DC:	12V / 24V / 48V / 125V DC inpu	ut		
Consumption :	Max. 13W			
Compliance				
EMC:	FCC & CE			
Safety :	CE / LVD & UKCA			
Environment :	RoHS3 & REACH / WEEE			
Environmental	Operating	Storage / Non-operating		
Temperature :	0 to 55°C degree	-20 to 60°C degree		
Humidity:	10~90%, non-condensing	5~90%, non-condensing		
Altitude :	16,000 ft	40,000 ft		
Shock:	-	10G acceleration (11ms duration)		
Vibration :	-	10~300Hz 0.5G RMS random vibration		

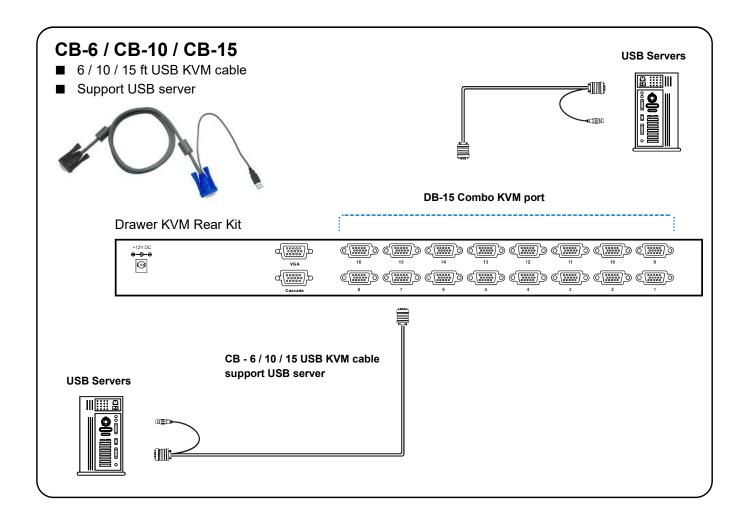
-S801 -S1601 KVM Rear Kit | Sack |

-S801



-S1601





< 3.3 > KVM Cascade

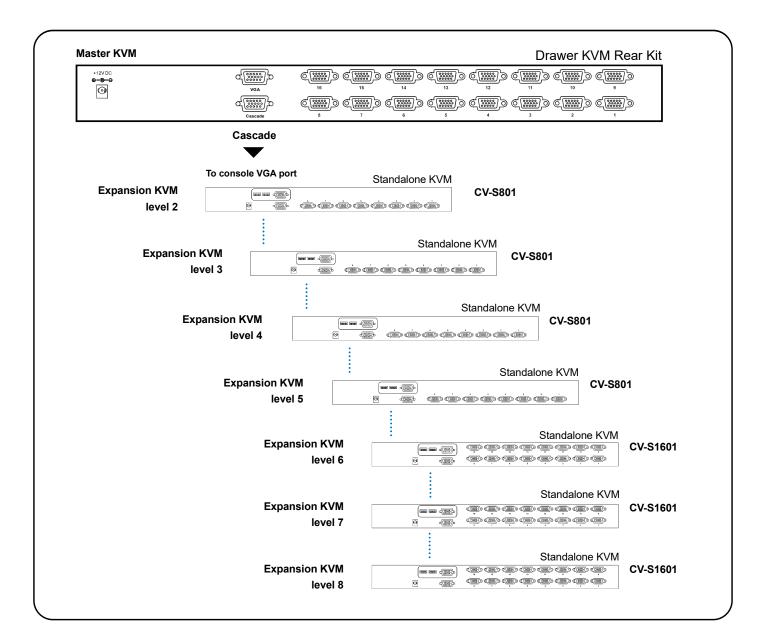
- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with CBC-6 cascade cable.



Cascaded KVMs from level 2 to 8 must be the models of CV-S801 / CV-S1601.



When multiple combo DB-15 KVMs cascade together, the master KVM at level 1 will take all control of other Expansion KVM switches (e.g. level 2 to 8).





CBC-6

6ft Combo KVM cascade cable

	-S801	-S1601	
KVM Port			
Number of ports :	8 or 16		
Connector:	DB-15 combo connector		
Connectivity:	USB 2-in-1 KVM cable, up to 6	5, 10 & 15 feet	
Local Console :	Nil for LCD console drawer ver	rsion	
Management			
Multilingual OSD :	English, France, German, Spa Japanese	nish, Italian, Russian, Simplified Chinese,	
Hotkey combination :	Scroll-lock, Cap-lock, Num-loc	k, Alt, Ctrl & Win	
Security:	Password enable & disable, up	to 8 users profile for port access	
PC Selection :	Front button, OSD menu & hot	tkey	
Expansion :	Up to 128 servers by 8-level ca	ascade	
Compatibility			
Hardware :	HP / IBM / Dell PC, Server and Blade Server SUN / Mac		
OS Support :	Windows / Linux / Unix / Mac OS		
Power			
Input :	Auto sensing 100 to 240VAC, 50 / 60 Hz		
Option DC:	12V / 24V / 48V / 125V DC input		
Consumption :	Max. 11W		
Compliance			
EMC :	FCC & CE		
Safety :	CE / LVD & UKCA		
Environment :	RoHS3 & REACH / WEEE		
Environmental	Operating Storage / Non-operating		
Temperature :	0 to 55°C degree	-20 to 60°C degree	
Humidity:	10~90%, non-condensing	5~90%, non-condensing	
Altitude :	16,000 ft	40,000 ft	
Shock:	-	10G acceleration (11ms duration)	
Vibration :	-	10~300Hz 0.5G RMS random vibration	

< Part 4 > Usage < 4.1 > 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
- 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 F1: MENU 01 🖘 01☼ SYSTEM F2: LOGOUT 02☆ SYSTEM 02 F3: PREV ESC : QUIT 03☆ SYSTEM 03 **ENTER: COMPLETE** 04☼ SYSTEM 04 05☆ SYSTEM **1**/**↓**: SELECT 05 06☆ SYSTEM PgUp/PgDn: 06 **BANK SELECT** 07☼ SYSTEM 07 08☼ SYSTEM 80 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
F1	Access F1 MAIN MENU
F2	Logout the OSD menu
F3	Previous menu
Esc	Cancel / Quit
Enter	Complete / Switch to selected port
★/ ♣	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
1/2/3/4	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	
	00 HOTKET 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 / IP Remote Co	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 +	P	Logout the KVM if password security is ON. Show up the status windows		
Advance hotkeys (for Supervisor login only)				
Scroll Lock + Scroll Lock +	s	Activate auto-scan mode for connected servers *Press any key to exit the auto-scan mode		
Scroll Lock + Scroll Lock +	R	Reset all the KVM settings to factory default *Except User Security settings		
Scroll Lock + Scroll Lock +	U	Disable and enable password security *Default security is ON		
Scroll Lock + Scroll Lock +	L	To enable / disable the screen saving function and 10 minutes auto-logout *Default the screen saving is OFF		

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

Cat6 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	



Model	12V	24V	48V	125V	250V
Input rating					
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt	300-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V	180 ~ 425V
Input current					
- No load	50 mA	50 mA	50 mA	35 mA	10 mA
- Full load	4950 mA	2450 mA	1220 mA	749 mA	600 mA
Output rating					
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	6.25A	12.5A
Efficiency	84%	85%	85%	91%	86%

*** For DC power option :

(1) If the unit with LCD, earthing may be required 🚹



(2) DC power excludes AC power cord.

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