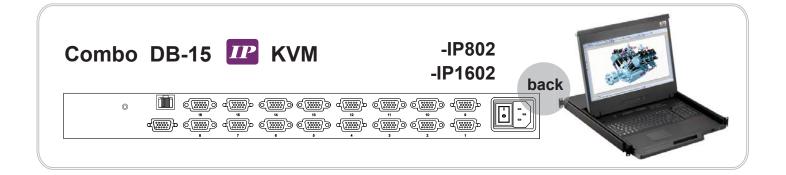
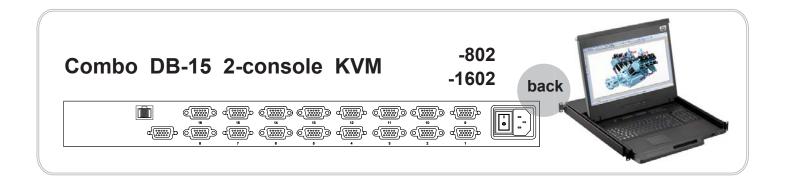
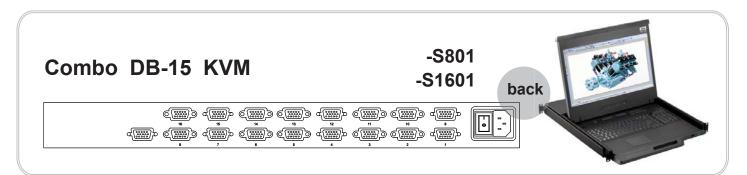


User Manual - KVM Rear Kit Version for LCD Console Drawer







Designed and manufactured by Austin Hughes

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.

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.1	Package co	ntents
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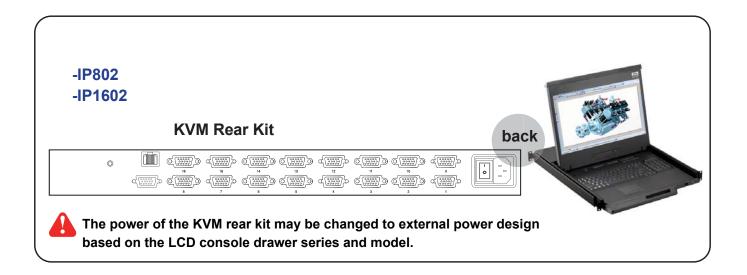
< Part 3 > Combo DB-15 KVM Kit

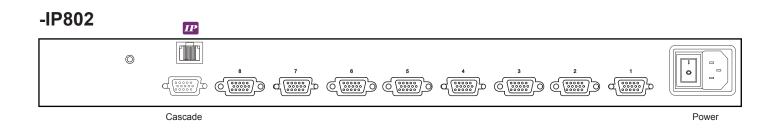
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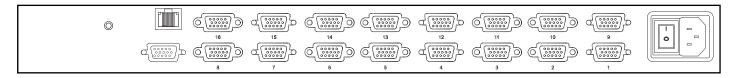
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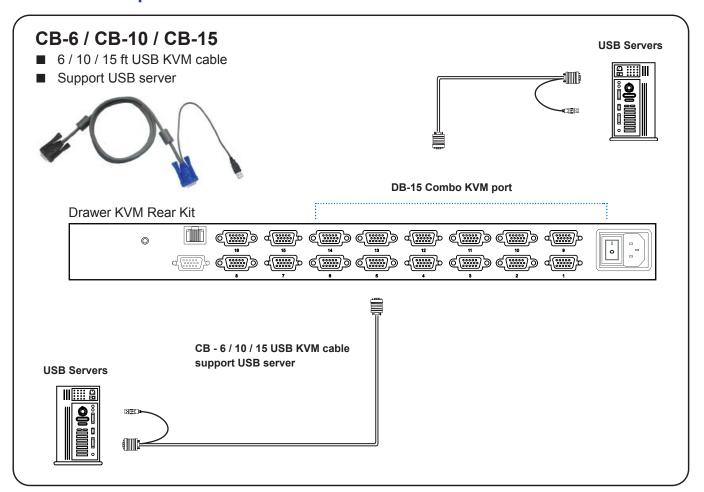
< 1.1 > Package Contents

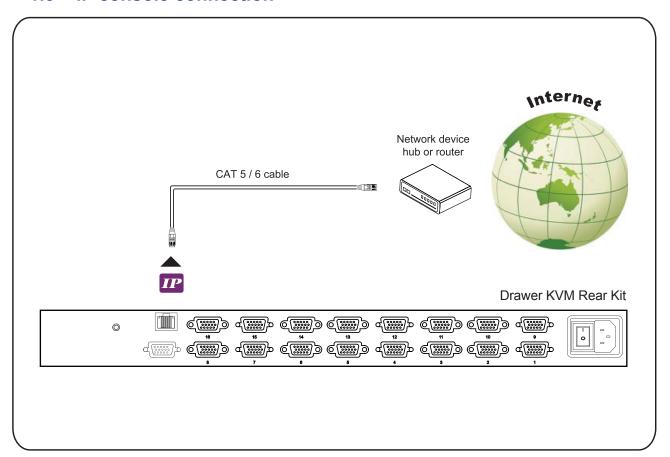




-IP1602







IP Console

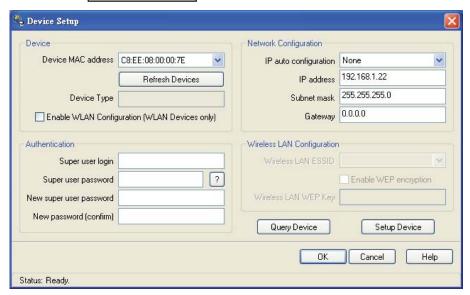
Resolution Support	Frequency (Hz)
1600 x 1200	60
1280 x 1024	60
1024 x 768	60 / 70 / 75

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

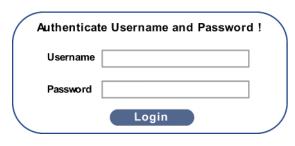
1. Download IPKVMsetup.exe from the link:

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 IP-1602 http://192.168.1.22
- 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
- 13. 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

< 1.5 > Important Preconfiguration for IP console

Combo DB-15 IP KVM



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:

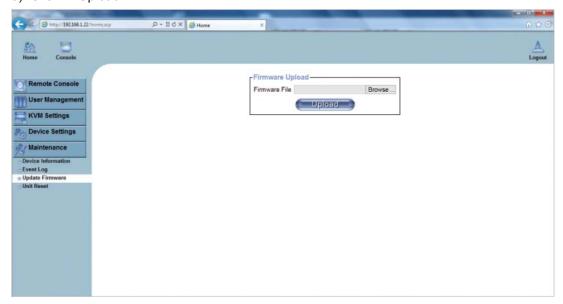


If it said so, please download the latest IP KVM firmware (version aust-i11-150608) from the link below : http://www.austin-hughes.com/resources/software/kvm-switch

Then follow the attached steps to update the firmware.

Firmware Update Steps

- 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

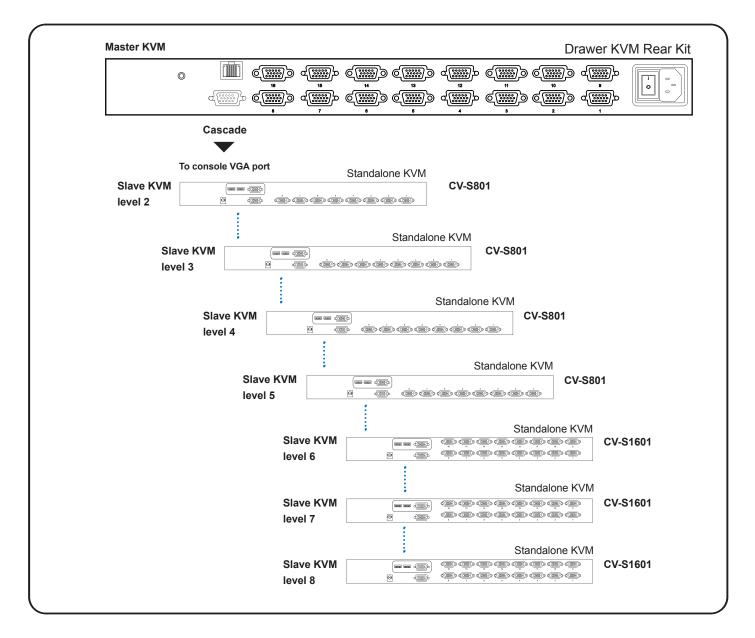
- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with CBC-6 cascade cable.



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 slave KVM switches (e.g. level 2 to 8).



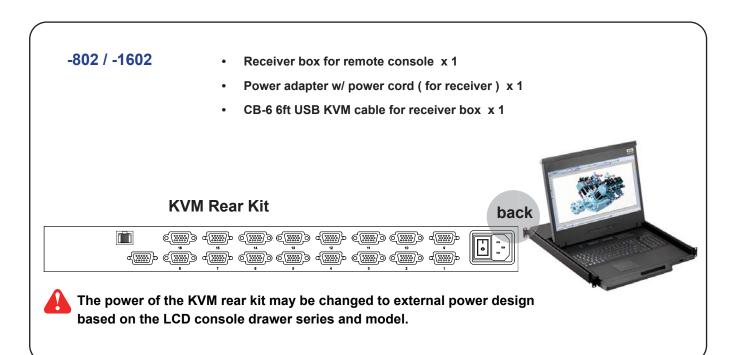


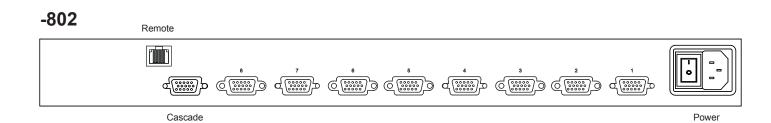
CBC-6

■ 6ft Combo KVM cascade cable

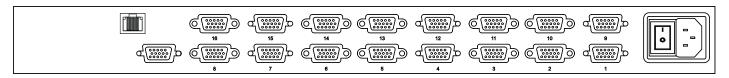
	-IP802 -IP1	602
KVM Port		
Number of ports :	8 or 16	
Connector:	DB-15 combo connector	
Connectivity:	USB 2-in-1 KVM cable, up to 6,	10 & 15 feet
Local Console :	Nil for LCD console drawer vers	ion
IP Remote Console		
Connector:	RJ45 Ethernet	
User management :	15-user login, 1 x active user	
Network protocol : Security :	DHCP / BOOTP / DNS SSL v3, RSA, AES, HTTP / HTT	The CSD
Browser:	IE, Firefox, Safari, Netscape	rs, con
Resolution support :	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, 50	0 / 60 Hz
Option DC:	12V / 24V / 48V / 125V DC inpu	t
Consumption :	Max. 19W	
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 :	-	5~500Hz 1G RMS random

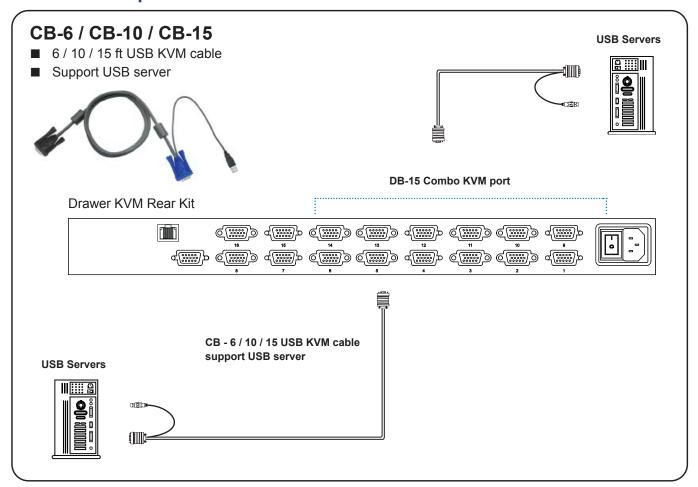
< 2.1 > Package Contents

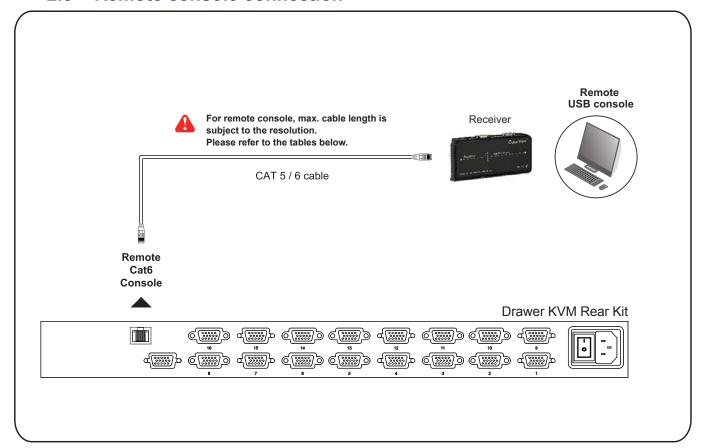




-1602

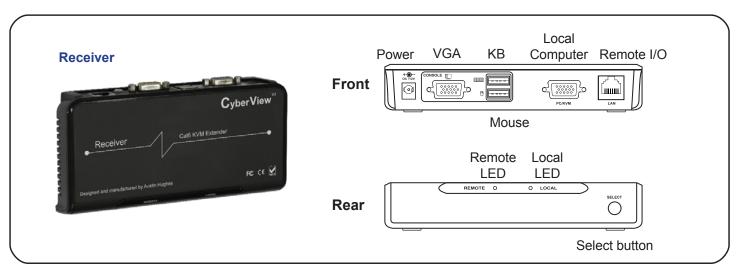






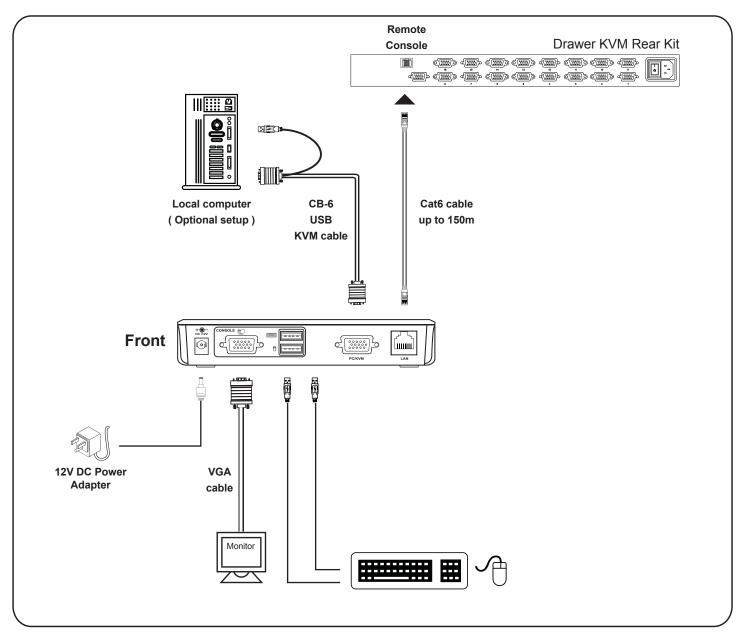
Remote Console

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





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



< 2.4 > KVM Cascade

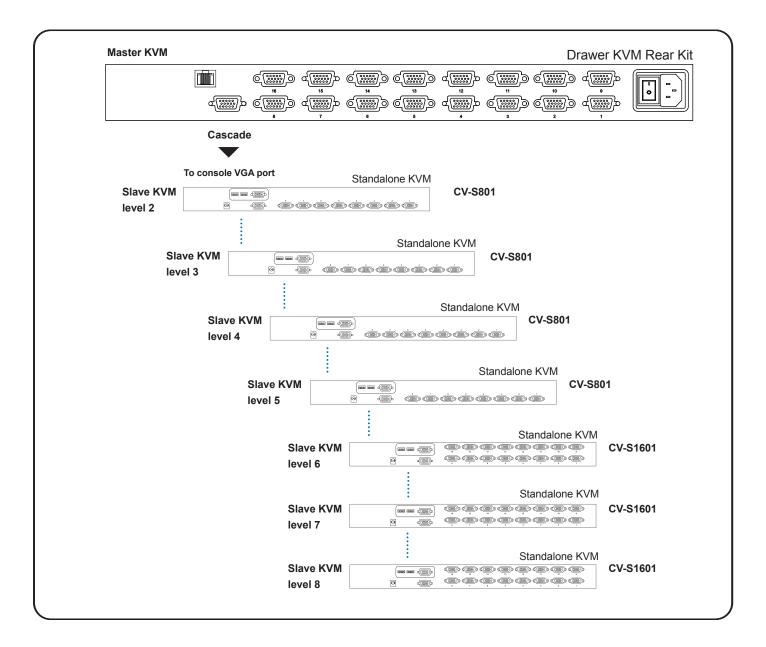
- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with CBC-6 cascade cable.



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 slave KVM switches (e.g. level 2 to 8).





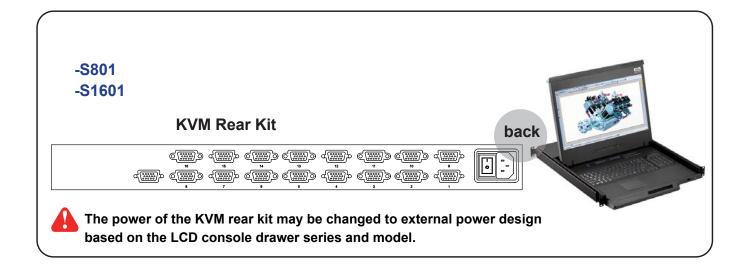
CBC-6

■ 6ft Combo KVM cascade cable

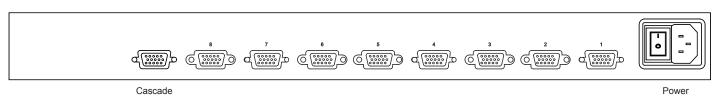
< 2.5 > Specifications

	-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 :	4: 3 - max. 1600 x 1200	
	16: 9 - max. 1920 x 1080	
	16:10 - max. 1920 x 1200	
Expansion :	Up to 128 servers by 8-level ca	scade
Compatibility	ty	
Hardware :	HP / IBM / Dell PC, Server SUN / Mac	and Blade Server
OS Support :	Windows / Linux / Unix / Ma	ac OS
Power		
Input:	Auto sensing 100 to 240VAC, 5	50 / 60 Hz
Option DC:	12V / 24V / 48V / 125V DC inpu	ut
Consumption :	Max. 13W	
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 :	-	5~500Hz 1G RMS random

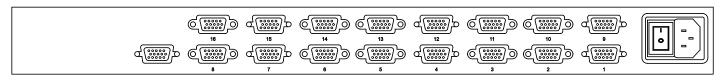
< 3.1 > Package Contents

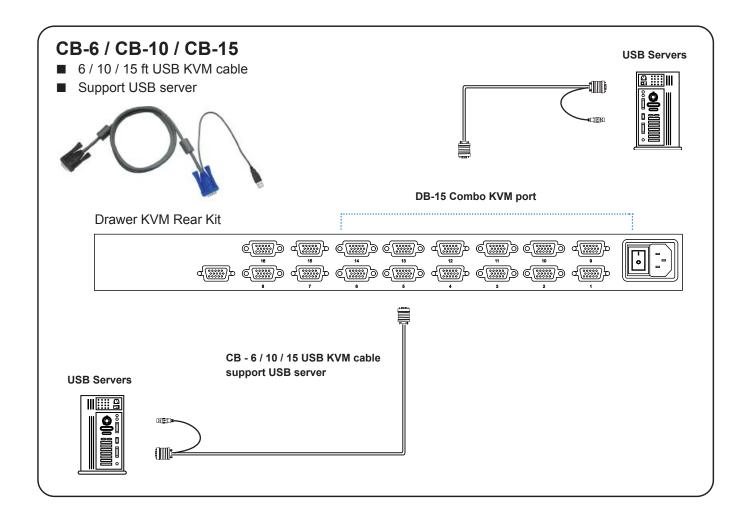


-S801



-S1601





< 3.3 > KVM Cascade

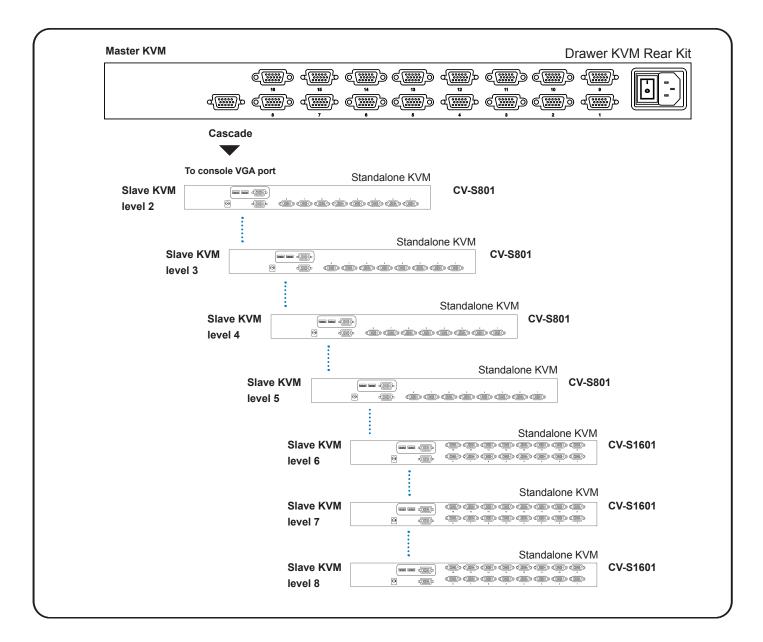
- Cascade up to 8 levels, 128 servers
- Cascading multiple KVM with CBC-6 cascade cable.



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 slave KVM switches (e.g. level 2 to 8).





CBC-6

6ft Combo KVM cascade cable

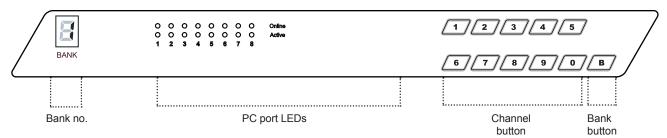
	-S801	-S1601
KVM Port		
Number of ports :	8 or 16	
Connector:	DB-15 combo connector	
Connectivity:	USB 2-in-1 KVM cable, up to 6	s, 10 & 15 feet
Local Console :	Nil for LCD console drawer ver	rsion
Management		
Multilingual OSD :	English, France, German, Spa Japanese	nish, Italian, Russian, Simplified Chinese,
Hotkey combination :	Scroll-lock, Cap-lock, Num-lock	k, Alt, Ctrl & Win
Security:	•	to 8 users profile for port access
PC Selection :	Front button, OSD menu & hot	key
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 inp	ut
Consumption :	Max. 11W	
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 :	-	5~500Hz 1G RMS random

4.1 KVM Button

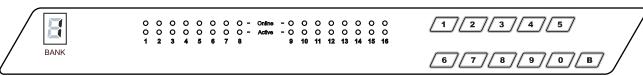
Power ON

- 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	
Channel button	Press to select channel from 01 to 16	
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"
- 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
- 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 08○ SYSTEM 07			
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			
↑/ ↓	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		

< 4.4 > KVM Hotkey & Remote Console Hotkey Combo DB-15 KVM Usage

Local Console Hotkey	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 r	no. Switch to specific port				
Scroll Lock + Scroll Lock + B	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 8Port 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	



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

*** 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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