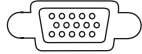


# User Manual

**CV-801**

**PS/2 DB-15 KVM**



**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

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### CV-801

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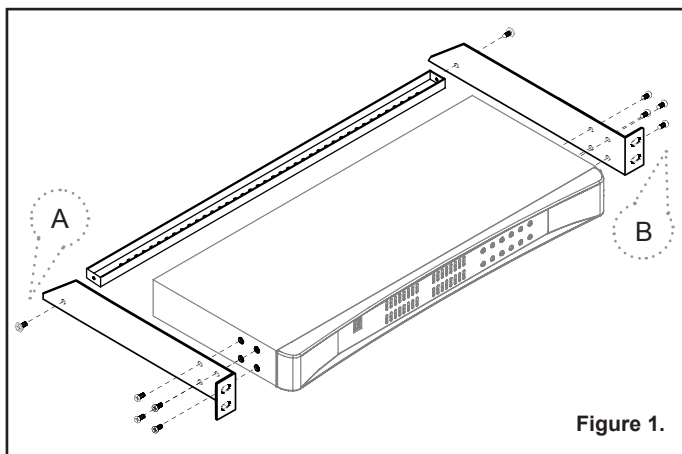
## Before Installation

- 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

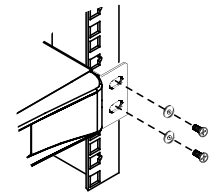
Screw B: 8 pcs



M4 x 10 mm

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

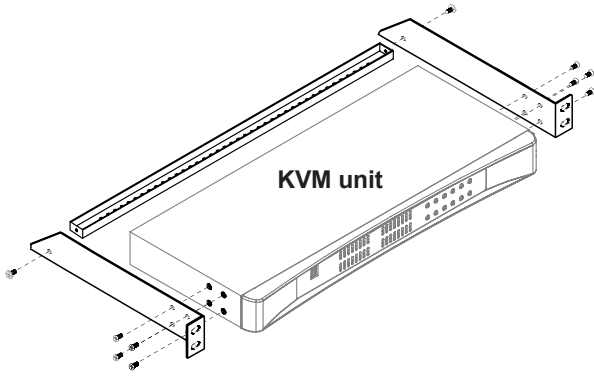
- Fix the KVM into the rack



**Part 1. PS/2 DB-15 KVM**  
**< 1.1 > Package Contents**

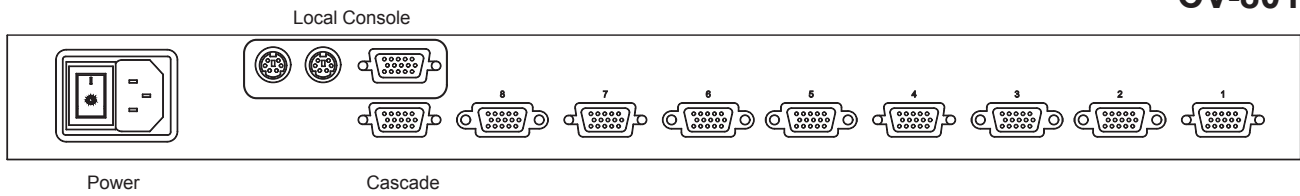
**PS/2 DB-15 KVM**

**CV-801**



- CV-801 KVM unit x 1
- Mounting set w/ bracket & screws x 1
- Power cord ( for KVM ) x 1

**CV-801**



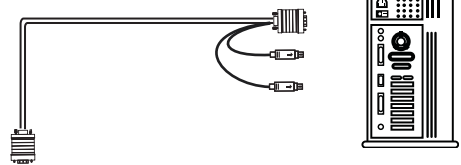
**< 1.2 > KVM port connection**

**CD-6 / CD-10 / CD-15**

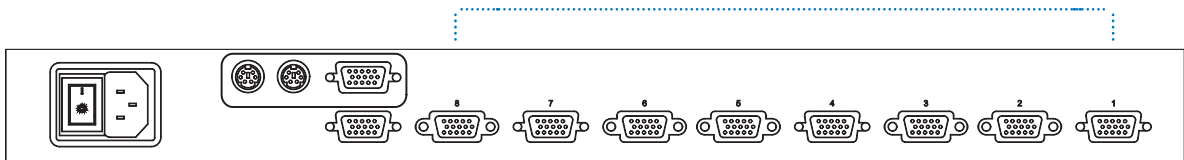
- 6 / 10 / 15 ft PS/2 KVM cable
- Support PS/2 server



**PS/2 Servers**



**DB-15 PS/2 KVM port**



**PS/2 Servers**



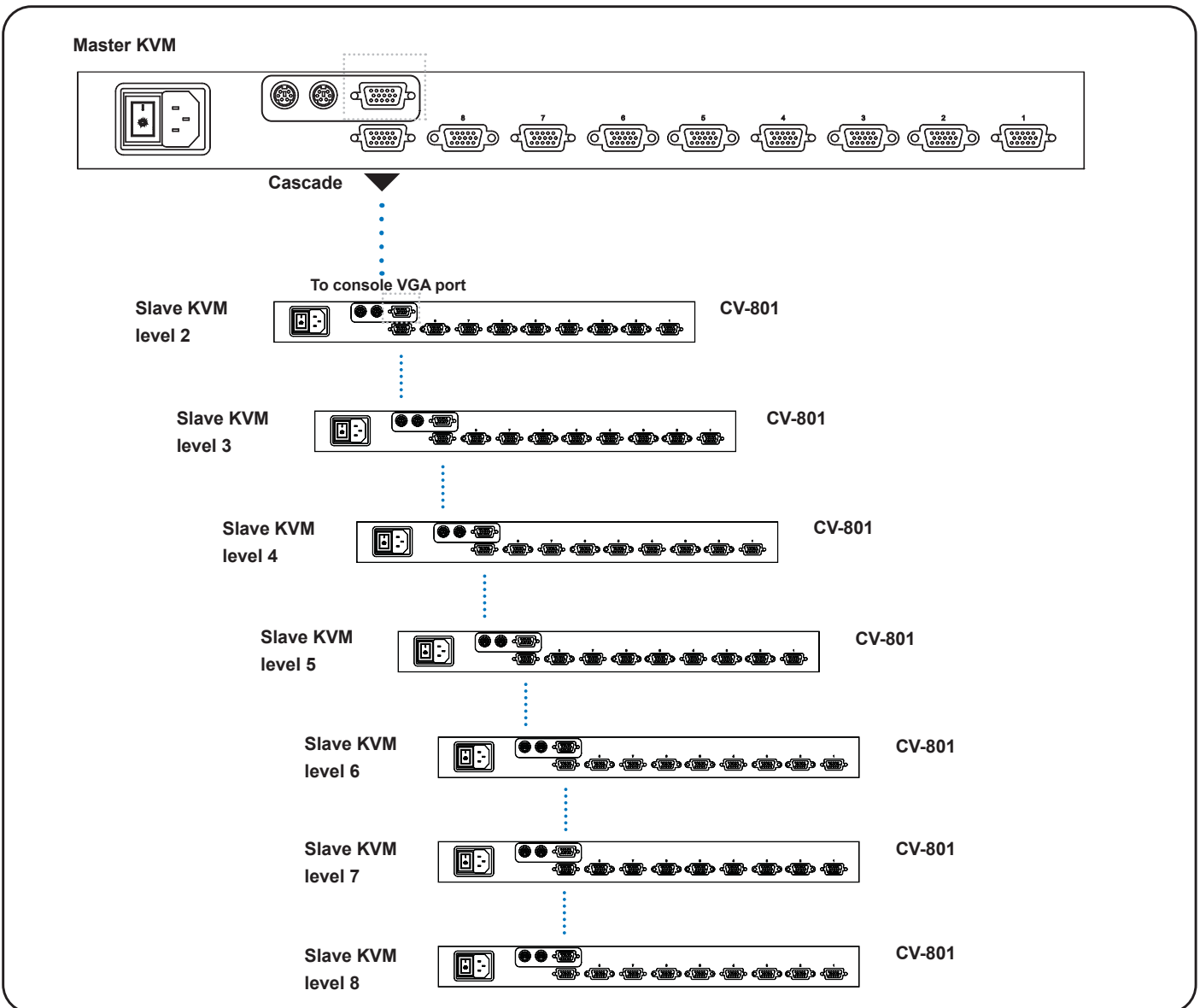
## < 1.3 > KVM Cascade

## PS/2 DB-15 KVM

- Cascade up to 8 levels, 64 servers
- Cascading multiple KVM with CBC-6 cascade cable.

**!** Cascaded KVMs from level 2 to 8 must be the models of CV-801.

**!** When multiple PS/2 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

<b>CV-801</b>		
<b>■ KVM Port</b>		
Number of ports :	8	
Connector :	DB-15 combo connector	
Connectivity :	PS/2 3-in-1 KVM cable, up to 6, 10 & 15 feet	
<b>■ Local Console</b>		
Graphic connector :	1 x DB-15 VGA	
Input device :	2 x PS/2 for keyboard & mouse	
Resolution support :	4:3 - max. 1600 x 1200, 16:10 - max. 1920 x 1200	
<b>■ Management</b>		
OSD :	English	
Hotkey :	Scroll-lock	
Security :	Password enable & disable	
PC Selection :	Front button, OSD menu & hotkey	
<b>■ Expansion :</b>		
Up to 64 servers by 8-level cascade		
<b>■ Compatibility</b>		
Hardware :	HP / IBM / Dell PC, Server and Blade Server SUN / Mac	
OS Support :	Windows / Linux / Unix / Mac OS	
<b>■ Power</b>		
Input :	Auto sensing 100 to 240VAC, 50 / 60 Hz	
Option DC :	12V / 24V / 48V / 125V / 250V DC input	
Consumption :	Max. 12W	
<b>■ Regulatory</b>		
Safety :	FCC & CE certified	
Environment :	RoHS2 & REACH compliant	
<b>■ Environmental</b>		
	<b>Operating</b>	<b>Storage / Non-operating</b>
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
<b>■ Product Information</b>		
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	
<b>■ Packing Information</b>		
Dimension (W x D x H) :	500 x 400 x 90 mm / 19.7 x 15.7 x 3.5 inch	
Gross weight :	5 kg / 11 lb	

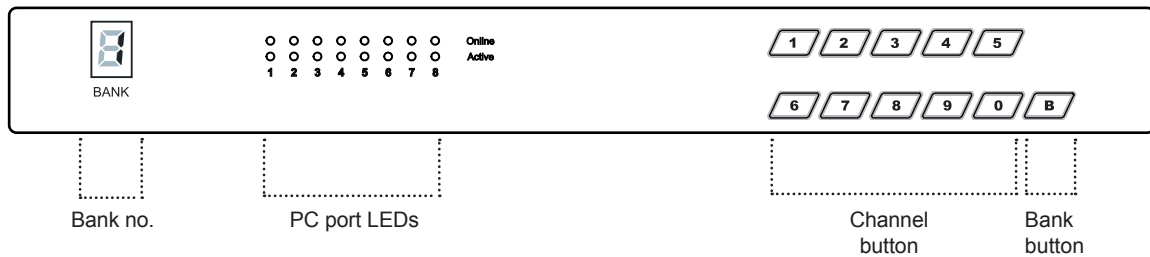
## 2.1 KVM Button

### 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

#### PS/2 DB-15 KVM 8 ports



Bank no.	7-Segment BANK LED indication
PC port LEDs	<b>Online</b> : <b>Blue</b> LED on indicating a PC is connecting to the port <b>Active</b> : <b>Green</b> LED on indicating a selected channel
Channel button	Press to select channel from 01 to 08



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

### ■ Set your own user name & password

1. Call KVM OSD menu by pressing the KVM hotkey **Scroll Lock + Scroll Lock + Space Bar**
2. Select "CHANGE PASSWORD"
3. Enter "00000000" eight zeros in password field  
**(Do not use "0" on number pad)**
4. Set your own password in "ENTER NEW PASSWORD" field
5. Retype your own new password in "RETYPE NEW PASSWORD" field

Remark: a. Blank has underscore. SPACE does not have underscore.  
b. Press any alphanumeric key to move to next input item.

### ■ Change your password

1. Call KVM OSD menu by pressing the KVM hotkey **Scroll Lock + Scroll Lock + Space Bar**
2. Select "CHANGE PASSWORD"
3. Enter your own password
4. Change your password in "ENTER NEW PASSWORD" field
5. Retype your new password in "RETYPE NEW PASSWORD" field

Remark: a. Blank has underscore. SPACE does not have underscore.  
b. Press any alphanumeric key to move to next input item.

### ■ 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☼	<b>SYSTEM 01</b>	F2 : LOGOUT	
02☼	SYSTEM 02	F3 : PREV	
03☼	SYSTEM 03	ESC : QUIT	
04☼	SYSTEM 04	ENTER : COMPLETE	
05☼	SYSTEM 05	↑/↓ : SELECT	
06☼	SYSTEM 06	PgUp/PgDn :	
07☼	SYSTEM 07	BANK SELECT	
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
<b>F1</b>		Access F1 MAIN MENU
<b>F2</b>		Logout the OSD menu
<b>F3</b>		Previous menu
<b>Esc</b>		Cancel / Quit
<b>Enter</b>		Complete / Switch to selected port
<b>↑/↓</b>		Switch to previous or next port
<b>PgUp/PgDn</b>		Switch to previous bank or next bank
<b>1 / 2 / 3 / 4</b>		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		
SELECT OPTION :		
<b>01</b>	<b>LANGUAGE</b>	
02	PORT NAME EDIT	
03	PORT SEARCH	
04	USER SECURITY	
05	ACCESS LIST	
06	HOTKEY	
07	TIME SETTINGS	
08	OSD MOUSE	

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

Local Console Hotkey	Function
<b>Scroll Lock + Scroll Lock + Space Bar</b>	Calling OSD menu
<b>Right-button mouse + Esc</b>	Calling OSD menu
<b>Scroll Lock + Scroll Lock + ↑</b>	Switch to previous port
<b>Scroll Lock + Scroll Lock + ↓</b>	Switch to next port
<b>Scroll Lock + Scroll Lock + PgUp / PgDn</b>	Switch to previous bank or next bank
<b>Scroll Lock + Scroll Lock + Bank no. + Port no.</b>	Switch to specific port
<b>Scroll Lock + Scroll Lock + B</b>	Turn the buzzer ON and OFF * Default the buzzer is ON
<b>Scroll Lock + Scroll Lock + P</b>	Logout the KVM if password security is ON. Show up the status windows

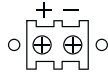
**Advance hotkeys (for Supervisor login only)**

<b>Scroll Lock + Scroll Lock + S</b>	Activate auto-scan mode for connected servers *Press any key to exit the auto-scan mode
<b>Scroll Lock + Scroll Lock + R</b>	Reset all the KVM settings to factory default *Except User Security settings
<b>Scroll Lock + Scroll Lock + U</b>	Disable and enable password security *Default security is ON
<b>Scroll Lock + Scroll Lock + L</b>	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

## 2.5 Options : DC Power



## PS/2 KVM Usage

Model	12V	24V	48V	125V	250V
<b>Input rating</b>					
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
<b>Output rating</b>					
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	6.25A	12.5A
<b>Efficiency</b>	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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