



# CPI LCD KVM Drawer and Switch User Manual

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CHATSWORTH  
PRODUCTS

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**CPI LCD KVM Drawer and Switch User Manual**

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**Legal Information**

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**Warranty**

To review Chatsworth Products, Inc. (CPI's) Standard Limited Warranty, [click here](#).

## Introduction

This document is the User's Manual for the LCD KVM Drawer from Chatsworth Products, Inc. (CPI). It guides the user through installation, operation and maintenance of the equipment.

The LCD KVM Drawer is sold individually and in combination with KVM Switches. The table below lists the CPI Part Numbers for the LCD KVM Drawers and LCD KVM Drawer and Switch combinations covered by this manual. There is a separate manual for the standalone KVM switches.

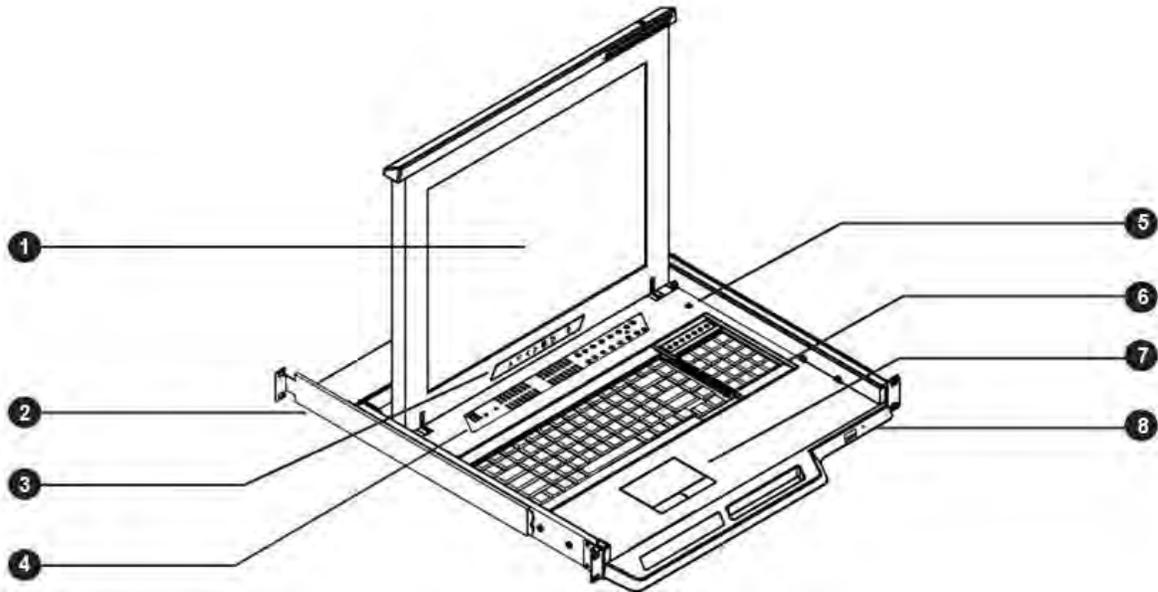
Part Numbers Covered in this Manual				Related Products (Standalone)
	LCD KVM Drawer	LCD KVM Drawer and Switch	KVM Switch Description	KVM Switch
Single Rail	37200-111 (US keyboard)	37203-161	Analog, 16 DB15 ports, no IP, no remote	37202-160
		37209-261	IP, 16 DB15 ports, 1 IP, no remote	37212-260
		37205-361	IP, 16 Cat5/6 ports, 1 IP, 1 remote	37207-360
		37205-421	IP, 32 Cat5/6 ports, 2 IP, 1 remote	37207-420
	37200-112 (UK keyboard)	37203-162	Analog, 16 DB15 ports, no IP, no remote	37202-160
		37209-262	IP, 16 DB15 ports, 1 IP, no remote	37212-260
		37205-362	IP, 16 Cat5/6 ports, 1 IP, 1 remote	37207-360
		37205-422	IP, 32 Cat5/6 ports, 2 IP, 1 remote	37207-420
Dual Rail	37201-111 (US keyboard)	37204-161	Analog, 16 DB15 ports, no IP, no remote	37202-160
		37206-361	IP, 16 Cat5/6 ports, 1 IP, 1 remote	37207-360
		37206-421	IP, 32 Cat5/6 ports, 2 IP, 1 remote	37207-420
	37201-112 (UK keyboard)	37204-162	Analog, 16 DB15 ports, no IP, no remote	37202-160
		37206-362	IP, 16 Cat5/6 ports, 1 IP, 1 remote	37207-360
		37206-422	IP, 32 Cat5/6 ports, 2 IP, 1 remote	37207-420

## LCD KVM Drawer – Product Features

LCD KVM Drawers are 1U high rack-mount consoles that include:

- A 17" LCD flat panel color display
- A US or UK style keyboard with separate number pad
- A built in touchpad with two mouse buttons
- The single rail models have a laptop-style design, fold open when fully extended and are mounted to a single pair of sliding rails
- On dual rail models, the LCD panel and keyboard tray can be opened or closed separately; allowing users to leave the LCD panel open while the keyboard tray is stowed
- Includes a combo KVM cable to connect to a single computer or KVM Switch; may also be ordered with a built-in KVM Switch

**Front Panel  
LCD KVM Drawer  
(P/N 37200-111, 37200-112, 37201-111, 37201-112)**



- |                           |   |
|---------------------------|---|
| 1. 17" LCD TFT Display    | 5. Micro switch for screen auto power off |
| 2. Rack-Mount Rails       | 6. Keyboard and number pad                |
| 3. LCD Adjustment Buttons | 7. Touchpad                               |
| 4. KVM Switch Buttons*    | 8. Blue LED, Power On indicator           |

\*Note: Item 4 in the diagram above is only on models that have a built-in KVM Switch.

**Rear Panel  
LCD KVM Drawer  
(P/N 37200-111, 37200-112, 37201-111, 37201-112)**



## **Additional Product Features – LCD KVM Drawer and Switch with DB15 ports**

- 16 DB15 KVM switch device ports which provide low-level keyboard, video and mouse connectivity to equipment within a rack. KVM Switches with DB15 ports use a proprietary 6 feet (1.8 meters) or 10 feet (3.0 meters) long breakout cable to connect computers. Cables are purchased separately (P/N 37208-161 or 37208-111).
- Buttons on the keyboard tray that allow easy switching between computer ports. LED indicators on the keyboard tray to show if the computers are connected and powered on and which port is selected. Users can also switch between ports using an intuitive on screen display menu or using keyboard hot keys.
- Access to the computers using the integrated LCD KVM Drawer. Access to the switch can be password protected for eight user accounts.
- An optional IP connection that provides remote management capability for one user over a 10/100 TCP/IP network. Users access equipment through a Java-compatible web browser, like Microsoft Windows Internet Explorer, using a password protected logon and switch between computers using an intuitive on screen menu. Supports fifteen user accounts.
- An expansion connection that allows up to eight switches to (cascade) be connected together providing access to 128 computers from the LCD KVM Drawer or IP connection. KVM Switches with DB15 ports use a proprietary cascade cable to connect together. No device ports are used. KVM Switches with DB15 Ports will not connect to KVM switches with Cat 5/6 ports.

*See page 8 for product diagrams.*

## **Additional Product Features – LCD KVM Drawer and Switch with Cat5/6 ports**

- 16 or 32 Cat5/6 RJ45 KVM switch device ports which provide low-level keyboard, video and mouse connectivity to equipment within a rack. KVM Switches with Cat5/6 ports use standard Cat5/6 UTP cabling with RJ45 connectors and dongles to connect computers, which allow computers to be located much farther from the switch, up to 132 feet (40 meters) away. Dongles (P/N 37208-103 or 37208-104) are purchased separately.
- Buttons on the keyboard tray that allow easy switching between computer ports. LED indicators on the keyboard tray to show if the computers are connected and powered on and which port is selected. Users can also switch between ports using an intuitive on-screen display menu or using keyboard hot keys.
- Access to the computers using the integrated LCD KVM Drawer. Access to the switch can be password protected for eight user accounts.
- A remote console connection that provides access from a separate computer located nearby. The remote console attaches to the switch using standard Cat5/6 UTP cabling with RJ45 connectors which allows the computer to be located up to 500 feet (150 meters) away from the switch.
- An optional IP connection that provides remote management capability for one user over a 10/100 TCP/IP network. Users access equipment through a Java-compatible web browser, like Microsoft Windows Internet Explorer, using a password protected logon and switch between computers using an intuitive on-screen menu. Supports fifteen user accounts.
- An expansion connection that allows up to eight switches to (cascade) be connected together providing access to 128 or 256 computers from the LCD KVM Drawer, the remote console or the IP connection(s). KVM Switches with Cat5/6 ports use a proprietary cascade cable (P/N 37208-165) to connect together. No device ports are used. KVM Switches with Cat 5/6 ports will not connect to KVM Switches with DB15 ports.

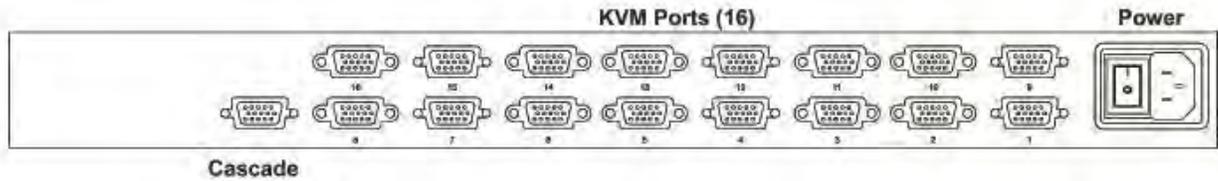
*See page 8 for product diagrams.*

The following diagrams are for models that have a built-in KVM Switch:

**Rear Panel**

**LCD KVM Drawer and Analog Switch with 16 DB15 ports  
(P/N 37203-161, 37203-162, 37204-161, 37204-162)**

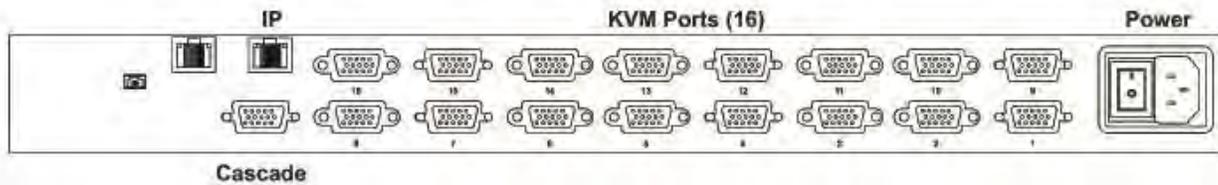
No remote console, no IP console, 16 DB15 server connections, 1 DB15 cascade connection (use Cascade Cable P/N 37208-162)



**Rear Panel**

**LCD KVM Drawer and IP Switch with 16 DB15 ports  
(P/N 37209-261, 37209-262)**

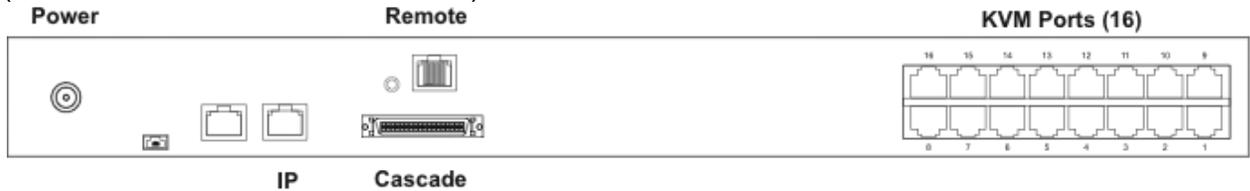
No remote console; 1 IP console, 16 DB15 server connections, 1 DB15 cascade connection (use Cascade Cable P/N 37208-162)



**Rear Panel**

**LCD KVM Drawer and IP Switch with 16 Cat5/6 ports  
(P/N 37205-361, 37205-362, 37206-361, 37206-362)**

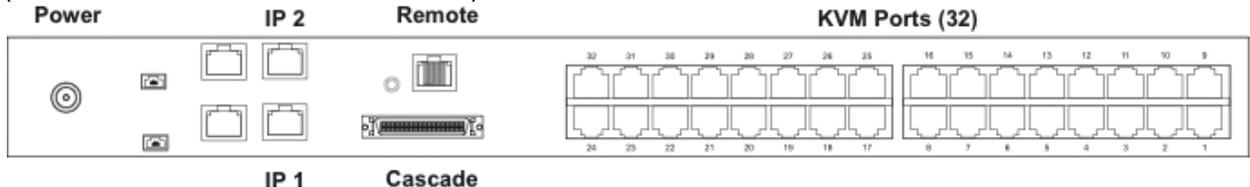
1 remote console, 1 IP console, 16 RJ45 (8P8C) server connections, 1 cascade connection (use Cascade Cable P/N 37208-165)



**Rear Panel**

**LCD KVM Drawer and IP Switch with 32 Cat5/6 ports  
(P/N 37205-421, 37205-422, 37206-421, 37206-422)**

1 remote console, 2 IP consoles, 32 RJ45 (8P8C) server connections, 1 cascade connection (use Cascade Cable P/N 37208-165)



## Important Safeguards

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Please read all of these instructions carefully before you use the device.  
Save this manual for future reference.

### Safety Instructions



- 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 onto 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.
- Slide rail mounted equipment is not to be used as a shelf or a workspace.

## **Federal Communications Commission (FCC) Regulatory Notices**

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:

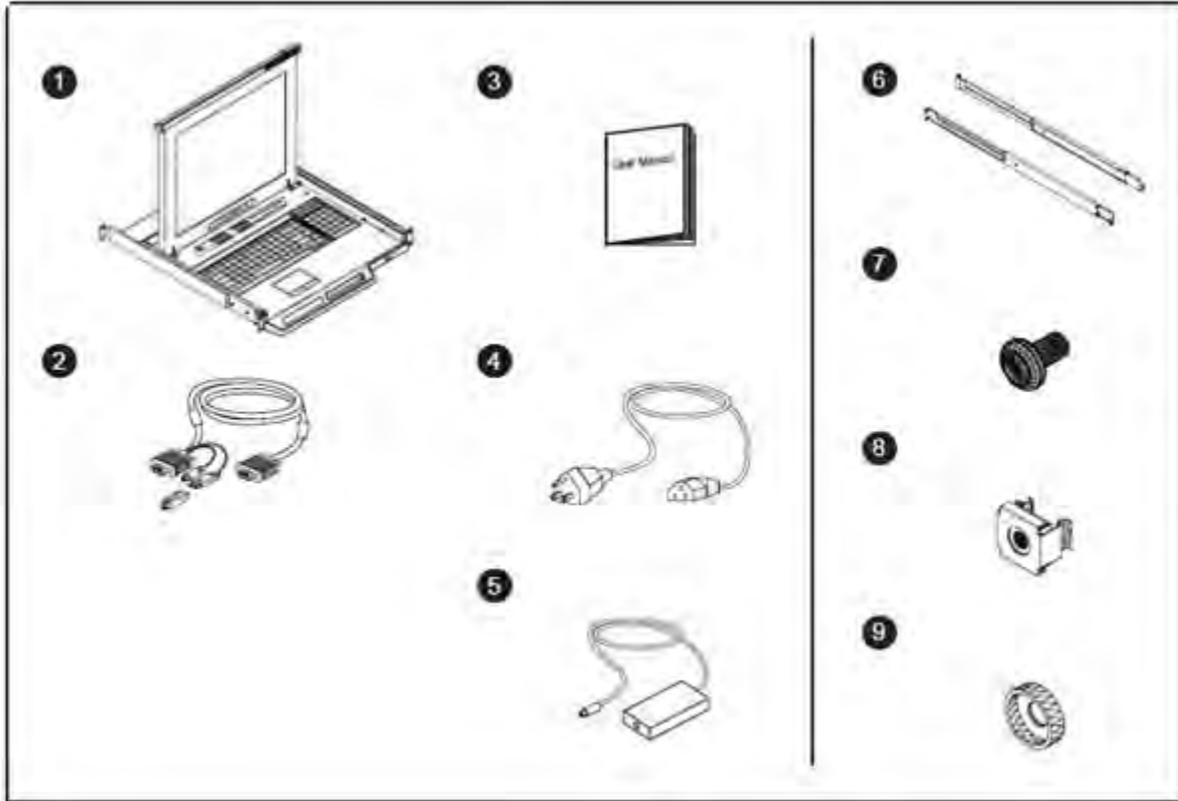
- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

## Installation

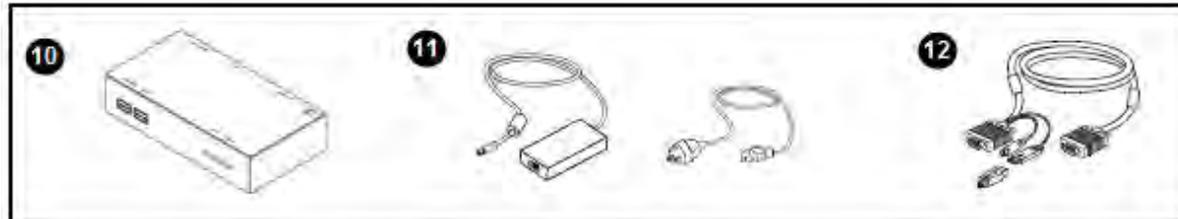
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### Unpacking/ Package Contents

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



Items 10-12 are only included with LCD KVM Drawer/Switch (P/Ns 37205-XXX, 37206-XXX).



#### KVM Switch

1. LCD KVM Drawer x 1 pc
2. Combo KVM Cable x 1 pc
3. User Manual (download)
4. Power cord x 1 pc
5. Power adapter x 1 pc  
(Only with switch models)

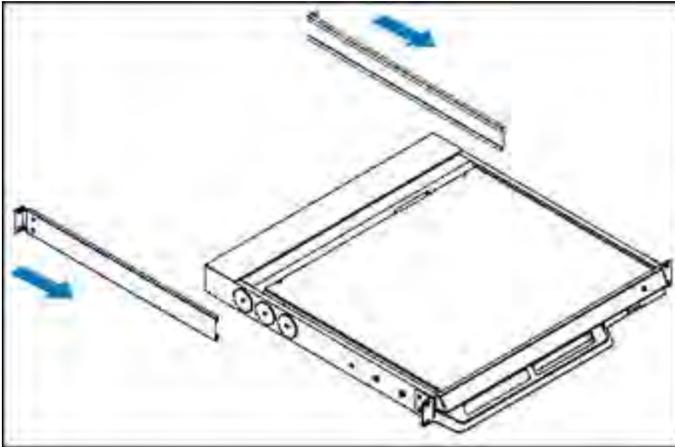
#### Rack-Mount Kit

6. Mounting bracket x 2 pc
7. M6 x 15mm screw x 8 pc
8. M6 cage nut x 6 pc
9. Cup washer x 8 pc

#### Remote Receiver Kit

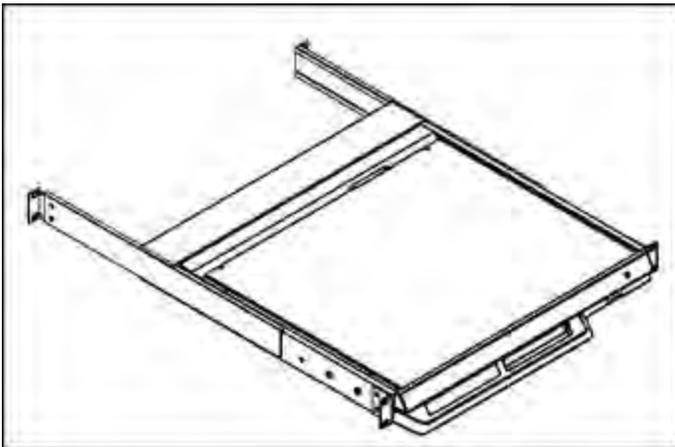
10. Remote receiver x 1 pc
11. Power cord & adapter x 1 pc
12. Combo KVM Cable x 1 pc

## 4-Post Rack/Cabinet Installation – Single Rail Drawers/Switches



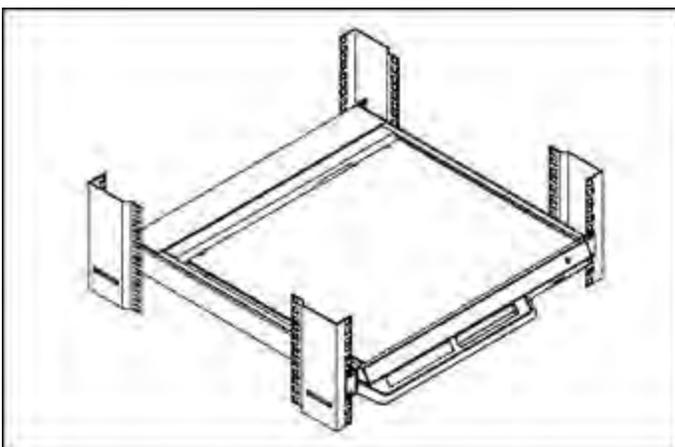
### Step 1:

- Insert the left and right mounting brackets into the LCD console drawer.



### Step 2:

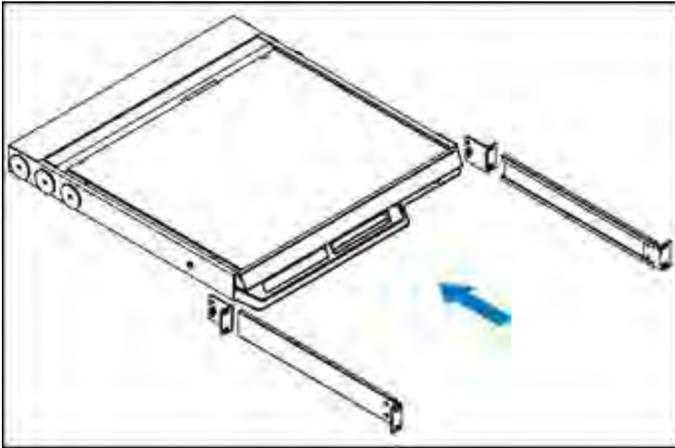
- Measure the depth of the front and rear mounting rails in the rack/cabinet.
- Extend/align the left and right mounting brackets to match the required depth.



### Step 3:

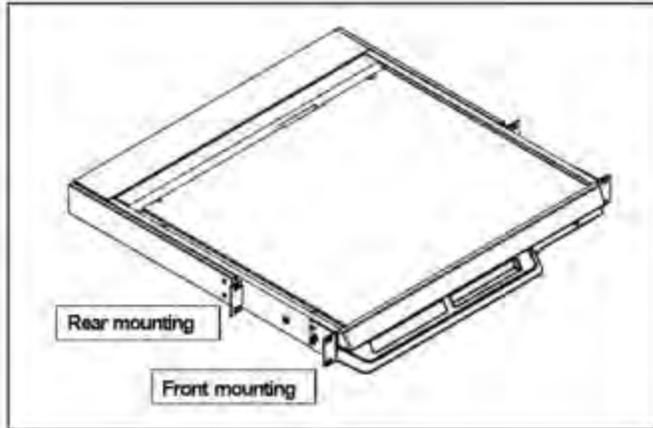
- Attach the LCD console drawer's mounting brackets to the rack/cabinets's mounting rails with the included hardware or mounting hardware included with the rack/cabinet.
- Use two mounting screws at each corner.

## 2-Post Rack Installation – Single Rail Drawers/Switches



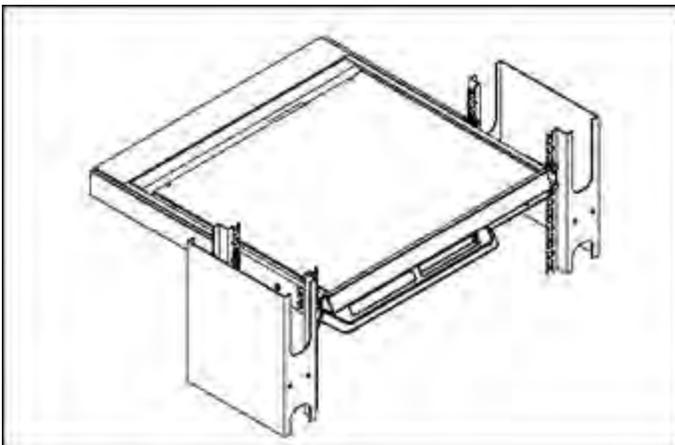
### Step 1:

- Release/remove the front mounting ears from the drawer.
- Insert the rear mounting brackets from the front of the drawer as shown.



### Step 2:

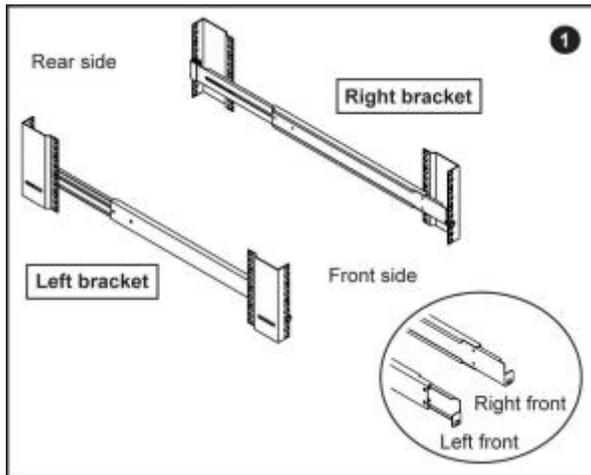
- Reattach the front mounting ears to the drawer.
- Adjust/align each rear mounting bracket to a suitable length.



### Step 3:

- Attach the LCD console drawer's front mounting ears to the front of the rack using the mounting hardware included with the rack.
- Attach the rear mounting brackets to the rear of the rack using the mounting hardware included with the rack.
- Use two mounting screws at each corner.

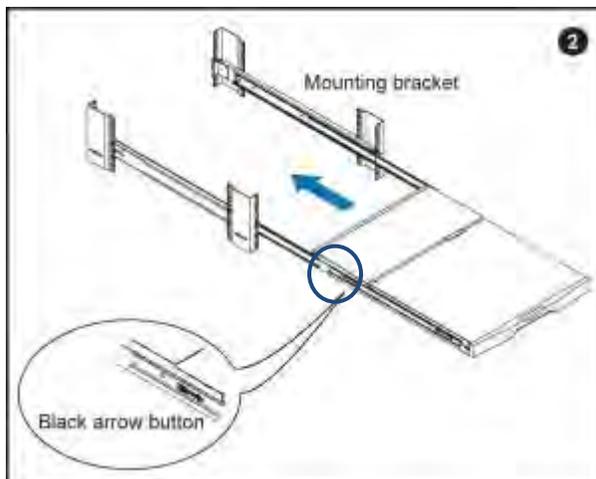
## 4-Post Rack/Cabinet Installation – Dual Rail Drawers/Switches



- Attach the left and right mounting bracket to rack 19" mounting rails.
- Adjust the rear mounting bracket to fit your rack.
- Use six M6 cage nuts, screws and cup washers to attach the brackets to the rack.

 **Caution:**

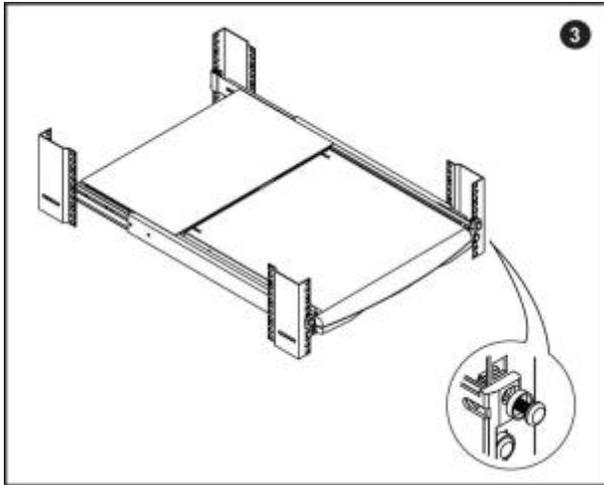
Leave the screws slightly loose until you complete the installation in step 4



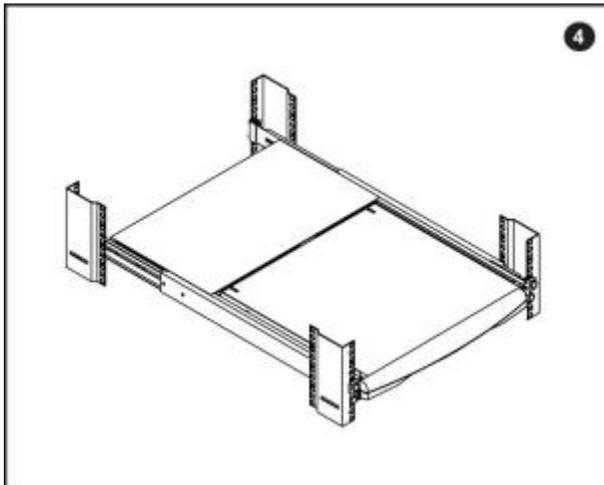
- Pick up the LCD KVM Drawer.
- Insert the LCD KVM Drawer into the mounting brackets.
- Pull and hold the left and right black arrow buttons on the rails.
- Slowly return the LCD KVM Drawer to closed position.

 **Caution:**

Keep your fingers away from the slide stop (blue circle) behind the black arrow buttons



- Attach the front left and right mounting ears of the LCD KVM Drawer to vertical mounting rails.
- Use the two remaining M6 screws and cup washers to secure the ears.

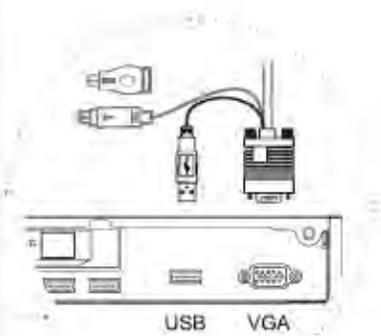
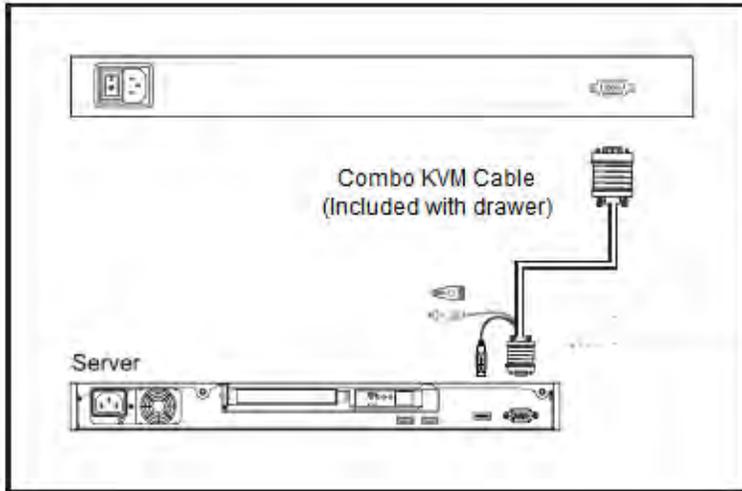


- Tighten all eight M6 screws to complete the installation.

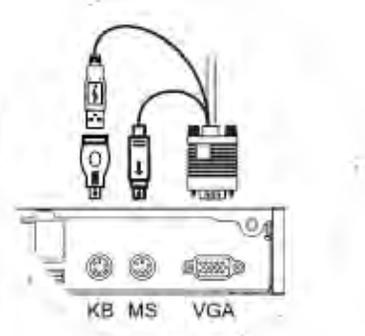
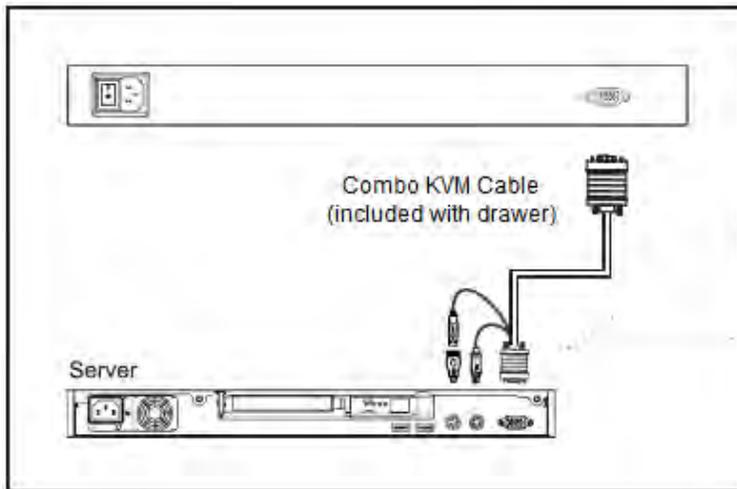
## LCD KVM Drawer – Server Connections

Connect the LCD KVM Drawer to an individual server with USB or PS/2 keyboard and mouse connections using the included Combo KVM Cable.

### Connection to Server with USB keyboard and mouse:



### Connection to Server with PS/2 keyboard and mouse:



#### Notes:

- The connections shown above are only for the LCD KVM Drawer without built-in KVM Switch.
- For the LCD KVM Drawer with built-in KVM Switch, please refer to pages 16 and 17.

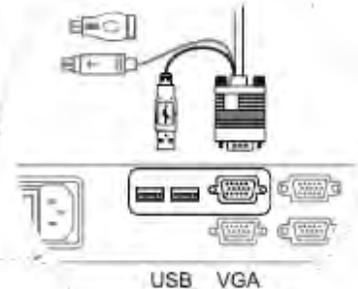
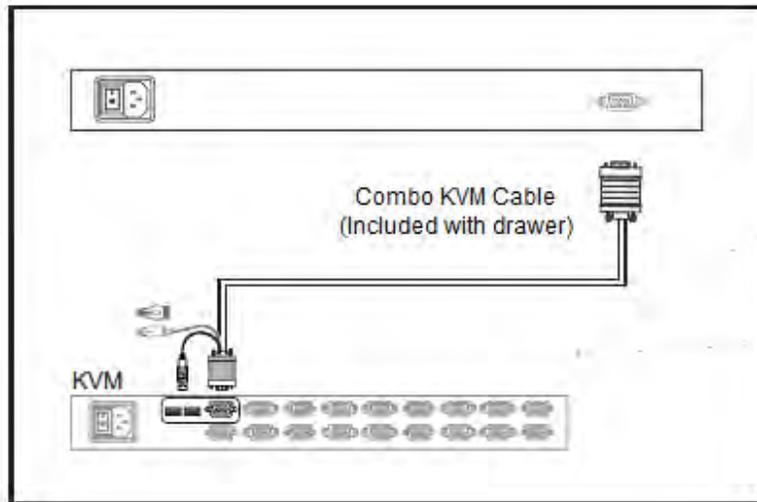


**Caution:** The LCD KVM Drawer is hot-pluggable, but components of connected devices, such as the servers and KVM Switch, may not be hot-pluggable. Plugging and unplugging cables while servers and the KVM Switch are powered on may cause irreversible damage to the servers, KVM Switch and LCD KVM Drawer. Before attempting to connect anything to the LCD KVM Drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD KVM Drawer is receiving power. CPI is not responsible for damage caused by hot plugging devices.

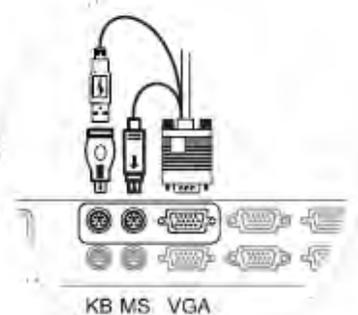
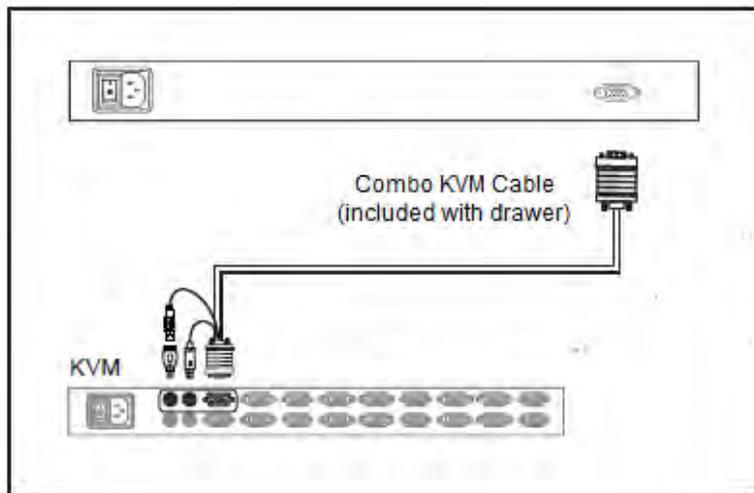
## LCD KVM Drawer – KVM Switch Connections

Connect the LCD KVM Drawer to a standalone KVM Switch with a USB or PS/2 keyboard and mouse connections using the included Combo KVM Cable.

### Connection to KVM Switch with USB keyboard and mouse:



### Connection to KVM Switch with PS/2 keyboard and mouse:



#### Notes:

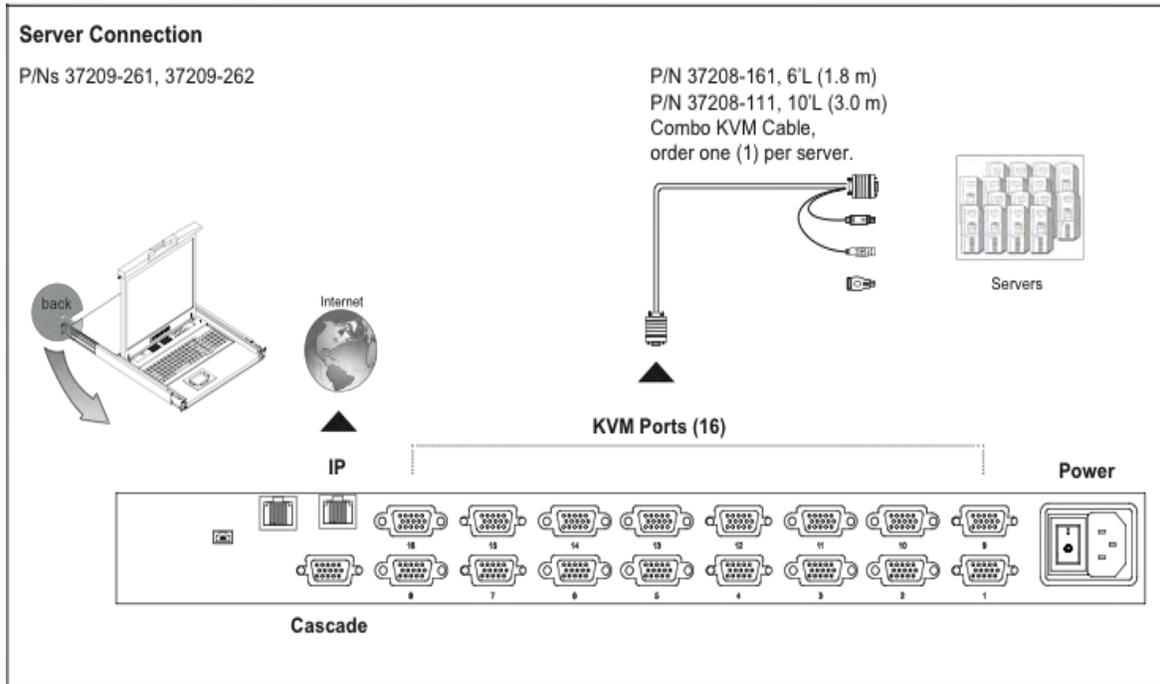
- The connections shown above are only for the LCD KVM Drawer without built-in KVM Switch.
- For the LCD KVM Drawer with built-in KVM Switch, please refer to pages 16 and 17.



**Caution:** The LCD KVM Drawer is hot-pluggable, but components of connected devices, such as the servers and KVM Switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM Switch are powered on may cause irreversible damage to the servers, KVM Switch and LCD KVM Drawer. Before attempting to connect anything to the LCD KVM Drawer, we suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD KVM Drawer is receiving power. CPI is not responsible for damage caused by hot plugging devices.

## LCD KVM Drawer and Switch with DB15 ports – Server Connections

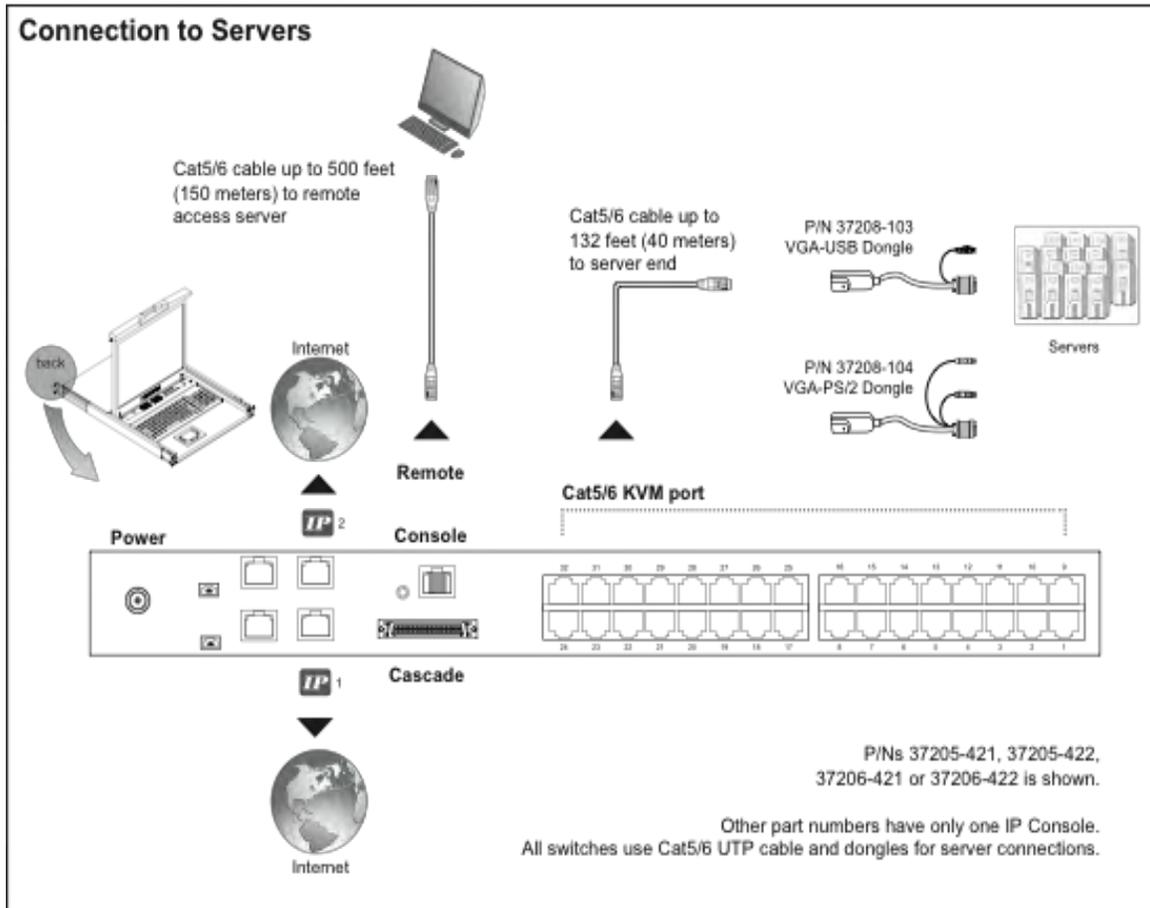
For LCD KVM Drawers that include KVM Switches with DB15 ports (P/Ns 37203-161, 37203-162, 37204-161, 37204-162, 37209-261, 37209-262), each server connects to the KVM Switch with a Combo KVM Cable (P/N 37208-161 or 37208-111), ordered separately. Order one Combo KVM Cable per server. Combo KVM Cables are available in two lengths and are sold individually, in packages of eight and in packages of 16.



*Note: Some switches do not have IP connections.*

## LCD KVM Drawer and Switch with Cat5/6 ports – Server Connections

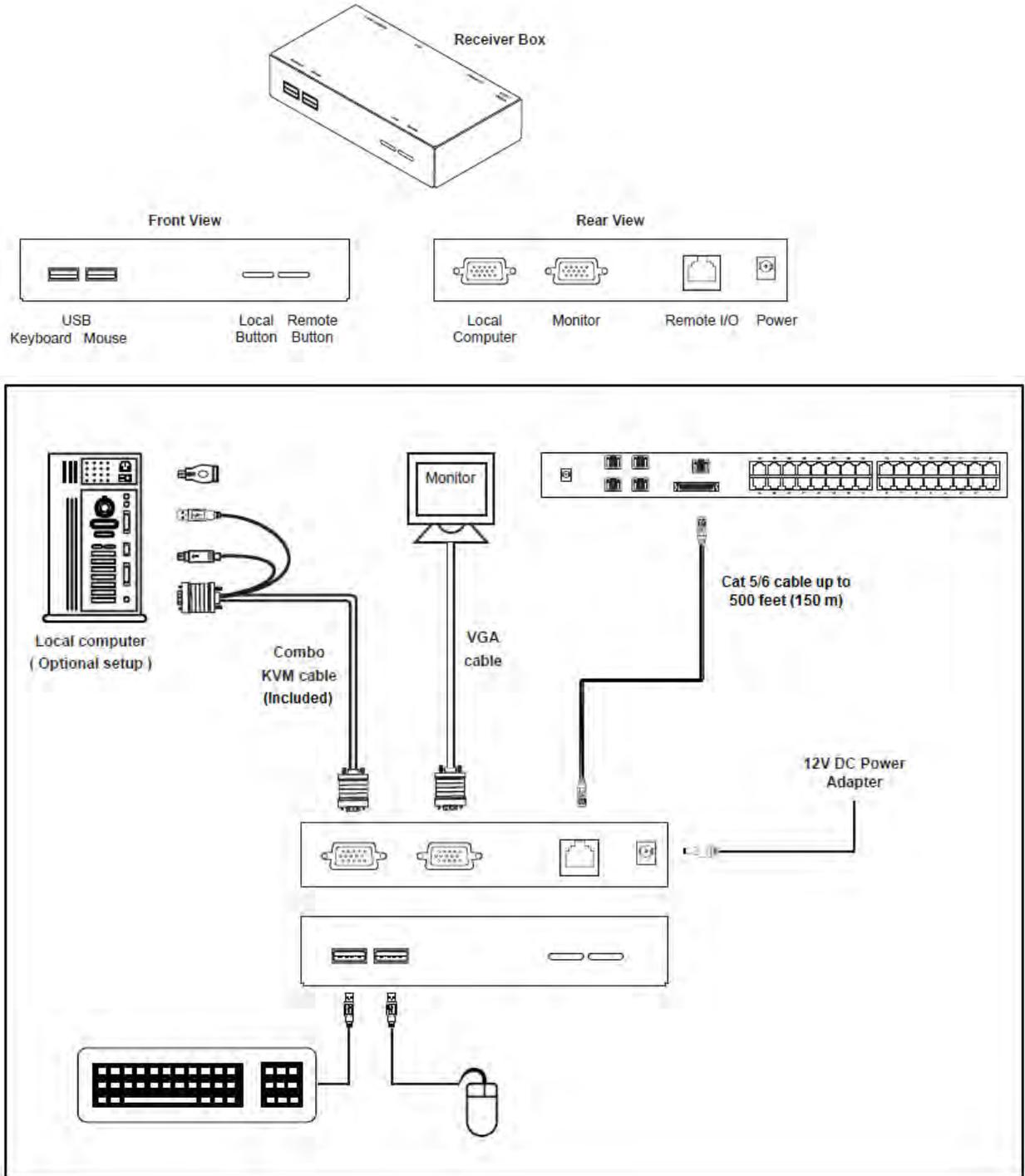
For LCD KVM Drawers that include KVM Switches with Cat5/6 ports (P/Ns 37205-421, 37205-422, 37206-421, 37206-422, 37205-361, 37205-362, 37206-361 and 37206-362), each server connects with a Cat5/6 UTP cable with RJ45 connectors and a dongle. Order one IP KVM Cable Dongle (P/N 37208-103 or 37208-104) per server to match server keyboard and mouse connections. The switch also has a remote console connection and includes the receiver for attaching the remote computer. The integrated LCD KVM Drawer is the local console. Switches also have IP consoles.



*Note: The diagram above shows IP KVM Switch (P/Ns 37205-421, 37205-422, 37206-421 and 37206-422) that have 32 Cat5/6 server ports, 1 remote console and two IP consoles. There are four part numbers because each drawer is available with single or dual rails and with a US or UK keyboard layout. Other switches have different numbers of server ports and IP consoles. P/Ns 37205-361, 37205-362, 37206-361 and 37206-362 have 16 server ports and 1 IP console. Refer to page 8 for diagrams of the other switches.*

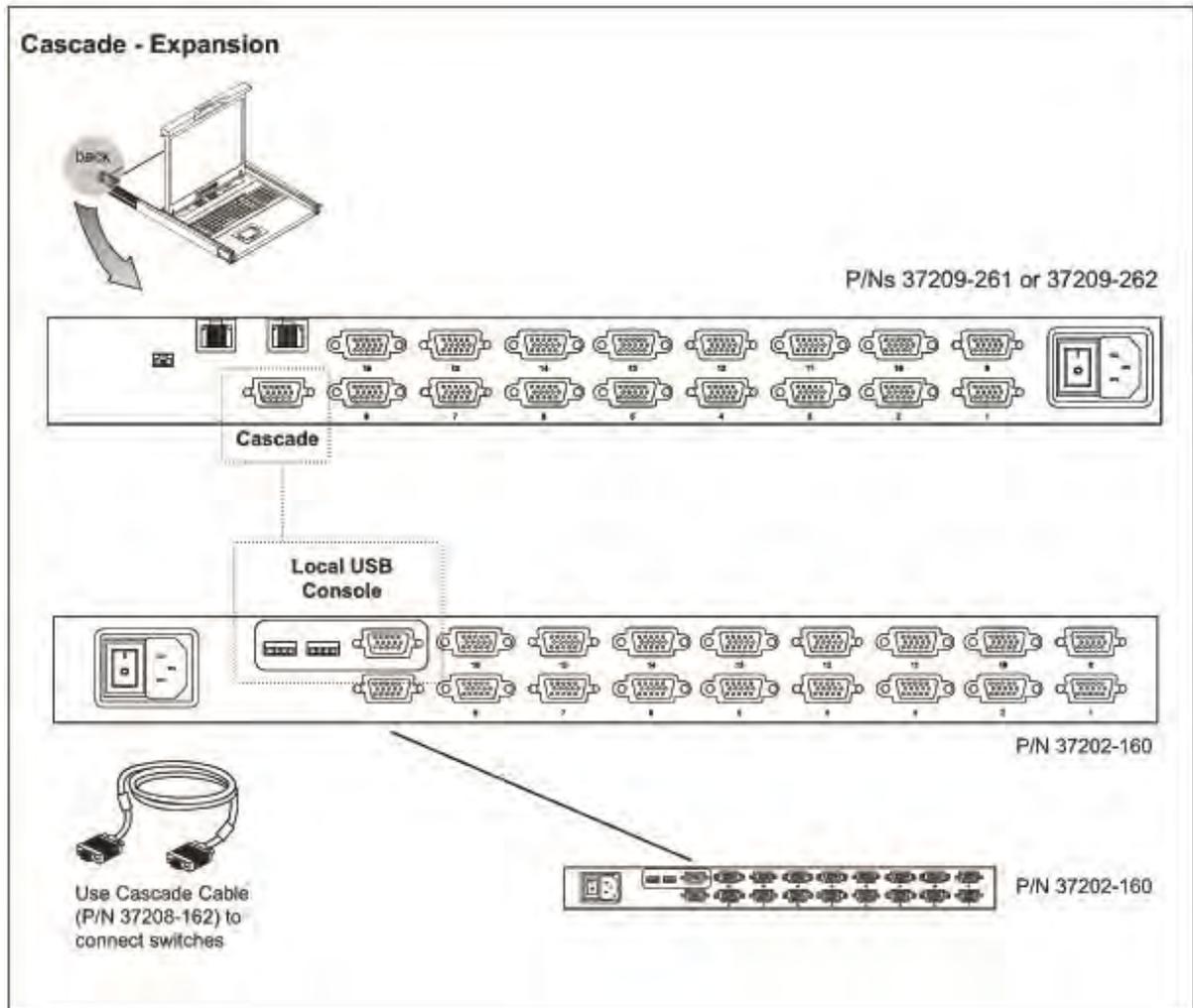
## Remote Console Connection for IP KVM Switch with Cat5/6 ports

Each LCD KVM Drawer and IP Switch with Cat5/6 ports also has one remote console connection and includes a remote console receiver to connect a separate set of peripherals or computer for switch access. Connect the remote console with a Cat5/6 UTP cable.



## Cascade Connection – Expansion for KVM Drawer and Switch with DB15 ports

Cascade up to seven additional standalone KVM Switches with DB15 ports (P/N 37202-160) to connect up to 128 servers through a single set of peripherals and IP address. The Cascade Cable for KVM Switches with DB15 ports (P/N 37208-162) attaches between the cascade port on the LCD KVM Drawer and Switch and the local console on the next switch. Equipment is accessed through consoles on the first switch. IP connections on cascaded expansion switches are not used.

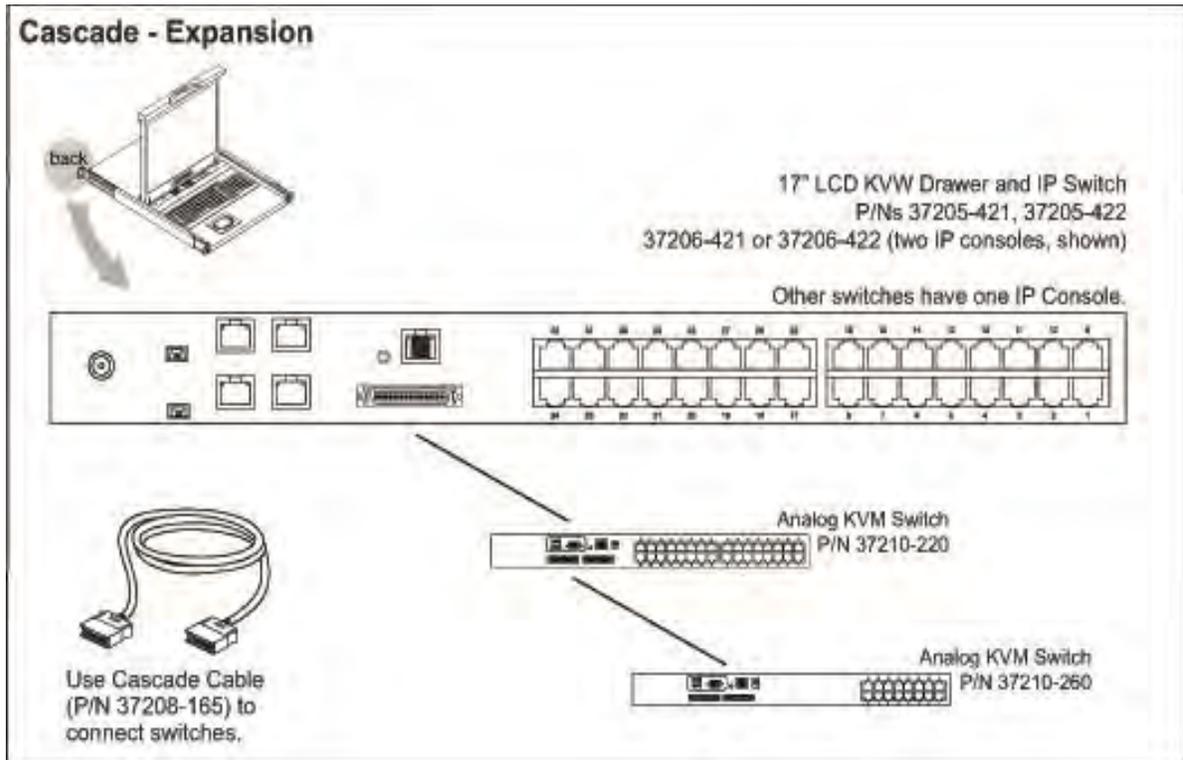


*Note: The KVM Drawer and IP Console on the first switch are used to access all switches. The first switch can also be P/Ns 37203-161, 37203-162, 37204-161 or 37204-162 which have no IP Console.*

*Do not mix switches with DB15 and Cat 5/6 ports. These switches have different expansion connections and use different cascade cables.*

## Cascade Connection – Expansion LCD KVM Drawer and Switch with Cat5/6 ports

Cascade up to seven additional Analog KVM Switches with Cat 5/6 ports to connect up to 128 or 256 servers through the integrated LCD KVM Drawer, a single remote terminal or IP address. The Cascade Cable for KVM Switches with Cat5/6 ports (P/N 37208-165) attaches between the cascade ports on the switches. Equipment is accessed through the consoles on the first switch. The local, remote and IP connections on cascaded switches are not used.



*Note: All switches are accessed through the integrated LCD KVM drawer, remote and IP consoles on the first switch. The diagram above shows IP KVM Switch P/Ns 37205-421, 37205-422, 37206-421 and 37206-422 which have two IP consoles, as the first switch and P/Ns 37210-220 and 37210-260, which do not have IP consoles, as expansion switches. You may also use P/Ns 37205-361, 37205-362, 37206-361 and 37206-362, which have one IP console, or either of the expansion switches as the first switch. Since all expansion switches are accessed through the first switch, be sure to select a switch with the correct number of IP consoles as the first switch.*

*Do not mix switches with DB15 and Cat 5/6 ports. These switches have different expansion connections and use different cascade cables.*

## Use – LCD KVM Drawer

---

### Opening/Closing The Single Rail LCD KVM Drawer

**Step 1:** To open the drawer, grasp the handle and gently slide out the drawer.



**Step 2:** When the drawer is fully extended, Flip up the LCD to a suitable viewing angle



**3:** The LCD KVM Drawer is ready to use. Reverse steps to close the drawer.

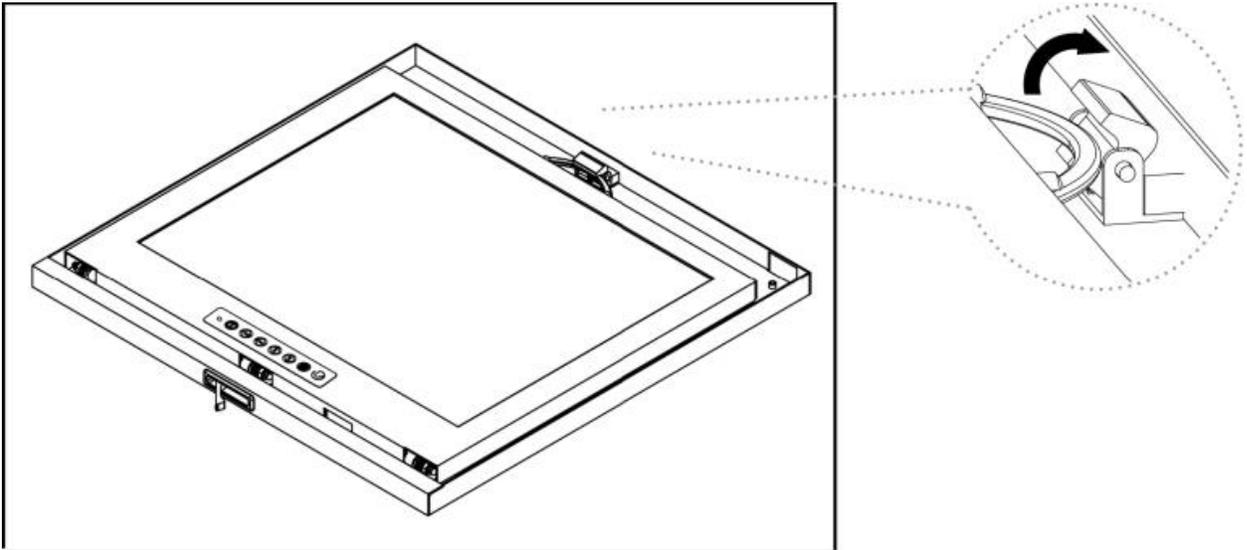


## Opening The Dual Rail LCD KVM Drawer

**Step 1:** To open the drawer, press the carry handle button and gently pull the carry handle



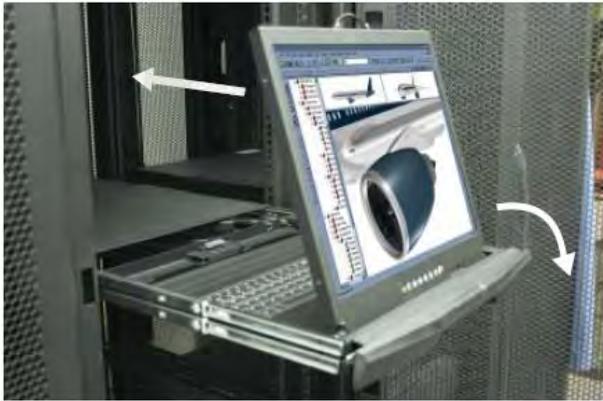
**Step 2:** When the drawer is fully extended, release the LCD panel by flipping the latch at the back of the tray.



**Step 3:** Flip up the LCD panel to a suitable viewing angle.



**Step 4:** Flip the front panel down and gently push the LCD display back to the rack.

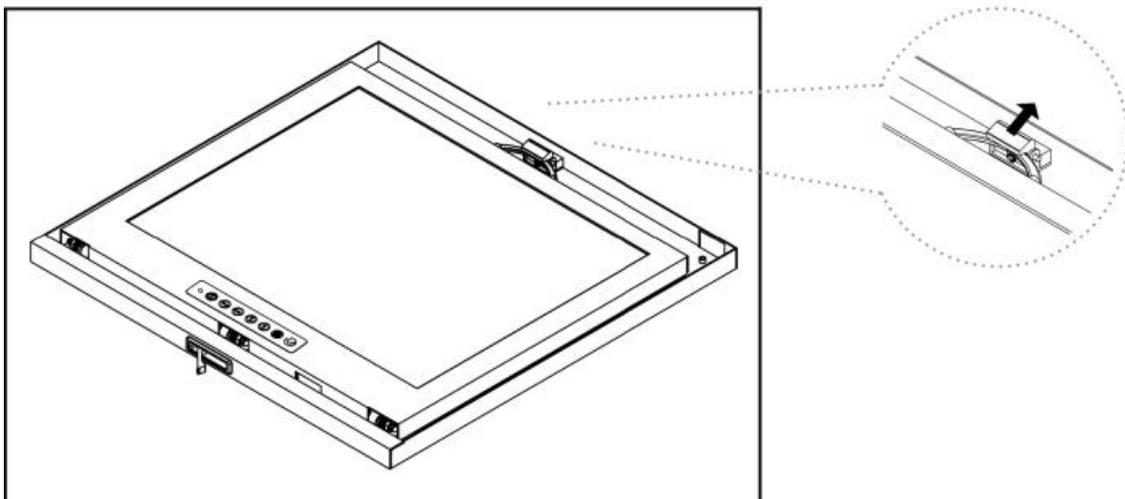


**Step 5:** The LCD KVM Drawer is ready to use.



### Closing The Dual Rail LCD KVM Drawer

**Step 1:** To close the LCD KVM Drawer, pull the LCD panel forward and lay it down securing the panel with the latch at the back of the tray.



**Step 2:** When the LCD panel is latched, flip up the front panel on the tray.



**Step 3:** Press the carry handle button and gently push the tray into the rack.

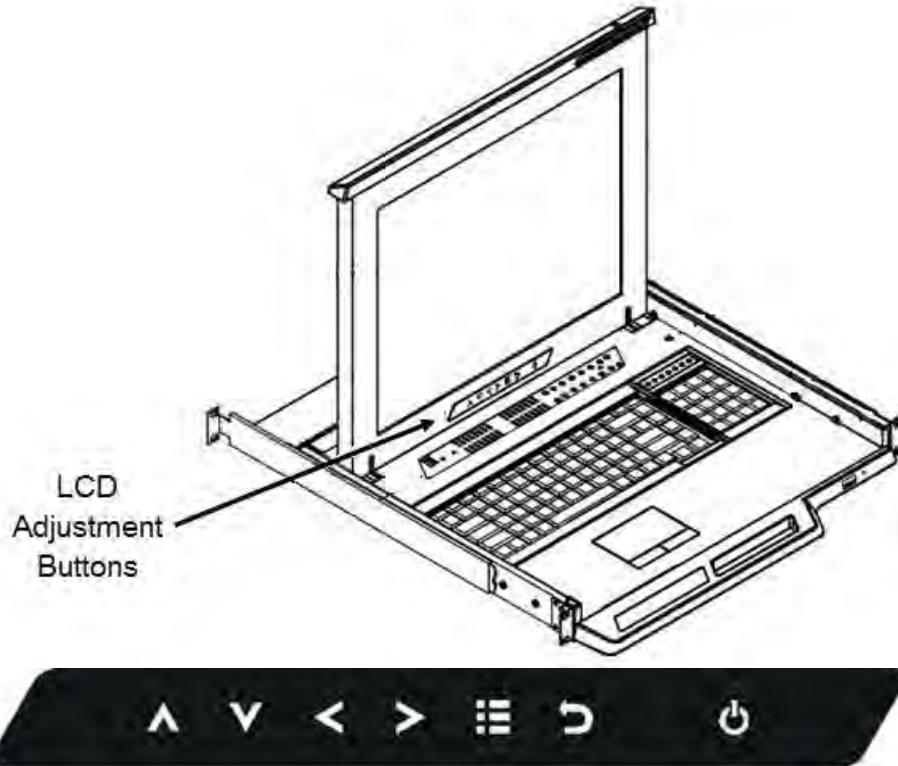


**Step 4:** When the LCD KVM Drawer is closed, release the carry handle.



## Adjusting the LCD Panel Display

Use the buttons on the LCD panel to turn the LCD display on and off and to access the on-screen display (OSD) menu to make display adjustments.

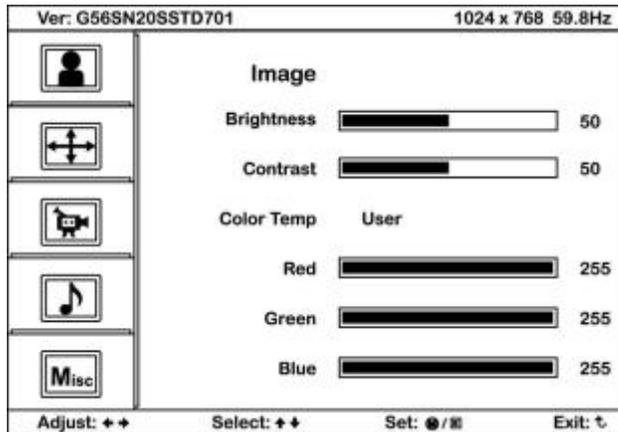


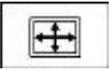
LCD Adjustment Buttons	Function
	Turn the monitor on or off
	Display the OSD menu Act as an Enter key to select screen setting options
	Scrolls through menu options and adjusts the displayed control
	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu

Note: Power button is lighted when monitor is on.  
Other buttons light when touched for approximately 10 minutes.

## The LCD On-Screen Display (OSD) Menu

From the OSD menu (below), select the icons on the left side of the menu to adjust image, geometry, video and audio. See the table below for a description of each icon/sub menu.



OSD Configuration Page	
	<b>Image:</b> To adjust brightness, contrast, and color temp
	<b>Geometry:</b> For auto adjust or to adjust H position, V position, phase and clock
	<b>Video:</b> To adjust the color, tint, sharpness, and noise reduction
	<b>Audio:</b> To adjust volume, bass, treble, balance, AVL and mute
	<b>Misc:</b> To adjust the language, OSD position, graphic mode, OSD time, ratio, reset and timer

## USE – KVM Switch

---

### Password Configuration for the Local/Remote Console

The password is disabled by default.

- Enable password
  1. Press the KVM hotkey Scroll Lock + Scroll Lock + U  
(you must press hotkey within 2 seconds, you will hear a beep when successful)
  2. Logout the KVM by pressing the hotkey Scroll Lock + Scroll Lock + P  
(the unit will automatically log out after 10 minutes of inactivity)
  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
  
- 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
    - a. Blank has underscore, while SPACE does not
    - 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
    - a. Blank has underscore, while SPACE does not
    - 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

## The On-Screen Display (OSD) Menu

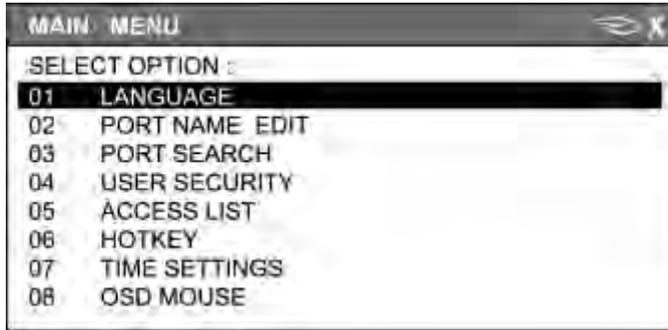
Access the OSD menu from the local console using the hot keys or hold the right mouse button and hit the escape button. The OSD menu displays (shown below):

PORT NAME	
BANK : 1	
01☀ SYSTEM 01	F1 : MENU
02☀ SYSTEM 02	F2 : LOGOUT
03☀ SYSTEM 03	F3 : PREV
04☀ SYSTEM 04	ESC : QUIT
05☀ SYSTEM 05	ENTER : COMPLETE
06☀ SYSTEM 06	↑/↓ : SELECT
07☀ SYSTEM 07	PgUp/PgDn :
08☀ SYSTEM 08	BANK SELECT
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
	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

## The F1 Main Menu

From the OSD menu, touch the F1 function key to access the main menu. The F1 Main Menu lets you set up the switch, assign port/computer names and create user accounts.



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

## Local Console Hotkeys

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 Number + Port Number</b>	Switch to specific port *Example SL + SL + 1 + 08 (bank 1, port 8)
<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
<b>Advance hotkeys (for Supervisor login only)</b>	
<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 OFF
<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

*Note: The numeric keypad is not supported in the OSD screen.*

## Remote Console Hotkeys

Hotkey	Function
<b>Scroll Lock + Scroll Lock + C</b>	Toggle between computer and KVM switch
<b>Scroll Lock + Scroll Lock + Q</b>	Turn the buzzer ON & OFF *Default the buzzer is ON
<b>Scroll Lock + Scroll Lock + S</b>	Activate auto-scan mode for remote & local port. *The scan time interval is 5 seconds
<b>Scroll Lock + Scroll Lock + A</b>	Auto-adjust the video signal

*Note: Only KVM Switches with Cat5/6 ports have Remote Consoles.*

## Set up – IP Console

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The IP Console on KVM Switches are pre-configured with an IP address and password to allow quick setup and configuration. DHCP is not enabled. You can access the switch using a web browser.

IP address 1: 192.168.1.22 (Single IP Console)  
IP address 2: 192.168.1.23 (Second IP Console)  
Subnet mask: 255.255.255.0  
Gateway: None  
Login: super (lower case)  
Password: pass (lower case)

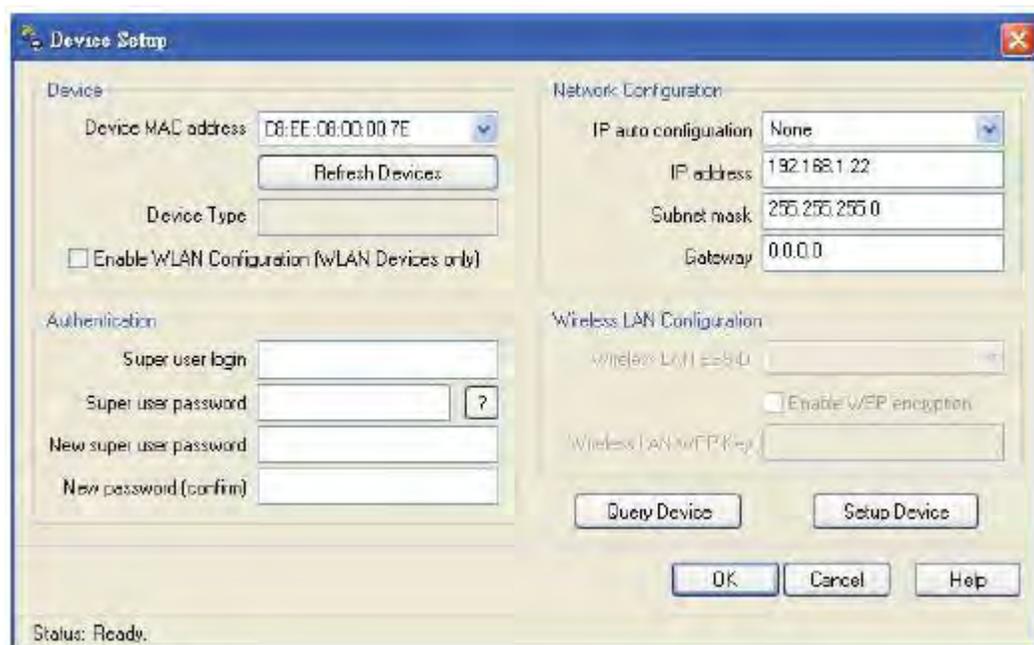
Before deploying the KVM Switch onto your network, change the IP address and default password to match your network requirements using the following steps:

1. Download the [KVM IP Console Setup Software](http://www.chatsworth.com/Support-and-Downloads/Downloads/Software/) from the CPI website:  
<http://www.chatsworth.com/Support-and-Downloads/Downloads/Software/>
2. Extract the file [KVMIPsetup.exe](#) from the zip file. The zip also contains user manuals.
3. Connect your computer and the IP KVM Switch to the same network switch
4. Double click [KVMIPsetup.exe](#). The following screen will appear.



5. Under Device, Click **Refresh Devices** to search for the connected IP KVM Switch

6. Select the MAC address of the KVM Switch that you want to setup and click **Query Device**. (The MAC address of the KVM Switch is printed on the product label.)



7. To change the default password, under Authentication,
  - a. Enter the Super user login. The default is **super** (all lower case)
  - b. Enter the Super user password. The default is **pass** (all lower case)
  - c. Enter the new super user password (this will change the password.)
  - d. Re-enter the new password (do not forget the new password)
  - e. Click **Setup Device** to change settings.  
The software will respond “Successfully configured device” or “Permission denied”
8. To change the IP address, subnet mask, gateway, under Network Configuration,
  - a. Select IP auto configuration none
  - b. Enter the desired IP address, subnet mask and gateway (if applicable)
  - c. Under Authentication, enter the Super user login and password
  - d. Click **Setup Device** to change settings.  
The software will respond “Successfully configured device” or “Permission denied”
9. To access the KVM Switch’s IP console, open your web browser and type in the switch’s IP address. You can use HTTP or HTTPS.
10. A login screen will appear. Enter the username (super) and password (pass or as set in step 7 above)

For detailed setup of the IP Console, refer to the 37209\_KVM\_IP\_Console\_User\_Manual.  
Download the manual:

[http://www.chatsworth.com/uploadFiles/Files/37209\\_KVM\\_IP\\_Console\\_User\\_Manual.pdf](http://www.chatsworth.com/uploadFiles/Files/37209_KVM_IP_Console_User_Manual.pdf)

## Troubleshooting guide – LCD KVM Drawer

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1. Is an interference signal on the LCD normal when shutting down the computer?
  - In rare cases, interference may appear on the monitor. This may be caused by signal rate of VGA card and is considered normal. The image quality can be improved by adjusting the phase or pixel rate automatically or manually.
2. The membrane power light is not on.
  - Press the power On / Off button on the LCD panel (LCD Adjustment Buttons) to check if the monitor is in the ON mode.
  - Check that the power cord is properly connected to the LCD KVM Drawer and power outlet.
3. Screen image is not centered or sized properly.
  - Adjust the H-position and V-position settings via On-Screen Display menu.
4. How do I adjust the resolution?
  - To change monitor resolution, adjust settings in the computer by clicking Start -> Control Panel -> Display. Select Setting tab to adjust the monitor resolution in the Desktop Area. The resolution is determined by the display card in your computer:
    - 640 x 480
    - 800 x 600
    - 1024 x 768
    - 1152 x 864
    - 1280 x 1024)
5. Is the LCD KVM Drawer hot-pluggable?
  - The LCD KVM Drawer is hot-pluggable, but components of connected devices, such as the servers and KVM Switches, may not be hot-pluggable. We suggest turning off the power to all devices before connecting them. Apply power to connected devices again only after the LCD KVM Drawer receives power.

## Troubleshooting guide – KVM Switch

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1. There is no LED display on KVM membrane switch.
  - Make sure the power adapter is plugged into the KVM Switch
  - If the LED is still off, perform soft reset to KVM switch.
  - If that does not work, power cycle the KVM switch.
2. I can power on the KVM, but I am not getting any picture.
  - Switch to another port and check if this port has the same problem
  - If the second port is working, check that the screen resolution is the same for both ports
  - Check that the OSD menu is available on the hot keys Scroll lock + Scroll lock + space bar.
  - Make sure the cables are inserted properly and reboot the system.
3. The screen is on but the keyboard and mouse don't work
  - Check the server by using a different keyboard and mouse.
  - For PS/2 servers, the keyboard and mouse are not hot pluggable.
  - For USB servers, unplug and plug allowing a few seconds for the bus emulation process to complete.
  - Do not press any keys on the keyboard while the server is booting up. This can cause a keyboard error or cause the keyboard not to detect the KVM switch.
  - Try a different keyboard, but use only 101/102/104-key keyboard.
  - Avoid moving the mouse while switching the KVM ports.
4. There is no LED display on the dongle.
  - The LED on the dongle will flash when plugged into the USB or PS/2 server.
  - The light will then become steady when the KVM switch has connected.
  - If the LED light is on and not flashing when plugged into the server, please unplug the USB or PS/2 and try again.
  - Or try another good dongle to verify if problem still appears. If the problem persists, please contact your supplier.

## Appendices

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### Factory Default Setting

Local/Remote Console Login User name = 00000000 (eight zeros)

Local/Remote Console Login Password = 00000000 (eight zeros)

Menu Access key = Scroll Lock + Scroll Lock + Space Bar or Right Mouse Button + Escape

IP Login User name = super (all lowercase)

IP Login Password = user (all lowercase)

Default IP address = 192.168.1.22

Default IP2 address = 192.168.1.23

### FAQ

**Q. How do the KVM switches allow the user to switch ports?**

A. There are three ways to switch ports: the membrane buttons on the front panel or keyboard tray, with keyboard hot-key commands or using the OSD menu.

**Q. What operating systems do the KVMs support?**

A. The KVM switches support multi-platform operating systems including but not limited to Windows 7/2008/2003/200/XP/ME/98, DOS, Linux, Mac.

**Q. Do I have to power down the KVMs to add a new server?**

A. The KVMs are hot-pluggable and allow servers or devices to be added or removed without powering down the switch, but components of connected devices, such as the servers, may not be hot pluggable. We suggest that you turn off power to all devices before connecting them.

**Q. Why I can't login with the default password on KVM switch?**

A. The default username and password for the Local/Remote console on the KVM switch is eight zeros - "00000000". The numeric (number) keys on the number pad are not accepted by the KVM, only the main number keys. Be sure that the "Num lock" is not turned on for a notebook type keyboard.

**Q. Can I disable the Local/Remote KVM console password?**

A. Yes, you can disable and enable the KVM password by hotkey.

**Q. How many levels of KVM cascade are supported?**

A. Eight levels are supported.

**Q. Can I cascade different types of KVM switches together?**

A. No, only same type of KVM Switches can cascade together. KVM Switches with DB15 ports P/N 37202-160 and 37212-260 will cascade. Likewise, KVM Switches with Cat5/6 ports P/N 37207-360 and 37210-260 and P/N 37207-420 and 37210-220 will cascade.

**Q. Why am I getting ghosting images or shadowing?**

A. The signal cable may be loose or the video card configuration may not match the switch. Check that all video cables are inserted properly. Check whether the KVM supports the resolution and refresh-rate on your servers. Check whether the graphics card you are using supports the resolution and refresh rate on your server or not. Connect the monitor directly into the servers you are having trouble with to see if problem still appears.

**Q. The server VGA resolution does not match the resolution of monitor?**

A. The KVM supports DDC function which will dynamically detect the DDC data. The problem may come from the power on sequence. For KVM switch, the recommended power on sequence is – monitor, KVM switch and then servers. For the remote console receiver, which supports the DDC function but does not support hot-plug, the recommended power on sequence is – monitor, remote console receiver and then servers.

**Q. Can I use the touch screen with KVM switches?**

A. No, the KVM switches do not support the touch screen driver.

**Q. What is the resolution support on the remote console?**

A. The remote console can support up to 1,000 feet (300 meters) at 1024 x 768, and up to 500 feet (150 meters) at 1600 x 1200.

**Q. Why am I getting ghosting images or shadowing on remote console?**

A. Press Scroll lock + Scroll lock + A on the keyboard connected to remote console box to force auto-adjusting the video signal to optimize.

**Q. Can I use standard Cat5/6 UTP cable for server connections through the dongle?**

A. The dongle can support Cat5/5e/6 straight cable. To maximize performance and stability, we strongly recommend using factory made and tested cable assemblies in fixed lengths. Using this type of cable assembly will provide excellent link connections and data communication. As poorly made field cable assembly can cause damage to the KVMs and dongles and result in a poor or intermittent link. The warranties do not apply to damage resulting from user-supplied cable.

## Specifications – LCD KVM Drawer

### Form Factor:

- 1U rack mount console with flat panel display, keyboard and touchpad on sliding rails
- P/Ns 37200-111 and 37200-112 have a single rail and a laptop-style folding design
- P/Ns 37201-111 and 37201-112 have dual rails, the display and keyboard/touchpad slide independently

### LCD Display:

- Diagonal Size: 17" TFT
- Supported Resolutions:
  - 720 x 400, 70 Hz
  - 640 x 480, 60/70/72/75 Hz
  - 800 x 600, 60/70/72/75 Hz
  - 1024 x 768, 60/70/75 Hz
  - 1152 x 864, 60/70/75 Hz
  - 1280 x 720, 60/70/75 Hz
  - 1280 x 1024, 60/70/72/75 Hz
- Brightness (cd/m<sup>2</sup>): 250
- Color Support: 16.7 M
- Contrast Ratio (typ.): 1000:1
- Viewing Angle (H/V): 160° x 160°
- Display Area (mm): 338 x 270
- Dot Pitch (mm): 0.264
- Tr Response time (ms): 5
- LCD Panel MTBF (hr): 50,000
- VGA Signal Input: Analog RGB, 0.7Vp-p
- Sync. Type: Separate H/V, Composite, SOG

### Keyboard and Touchpad:

- Full size keyboard and built-in touchpad with two mouse buttons
  - P/Ns 37200-111 and 37201-111 have a US keyboard layout
  - P/Ns 37200-112 and 37201-112 have a UK keyboard layout
  - The US and UK keyboards have the same keys, but the locations of the symbols (@, #, ", ` , \, |) are different and the UK keyboard includes a Pound (£) symbol

### Connection:

- Console Port (Combo): DB15 connector for VGA, keyboard and mouse

### Compatibility:

- Multi-platform: Mix PCs, SUNs, IBMs, HPs, Dells Servers
- Plug and Play DDC: EDID 1.3

## **Specifications - LCD KVM Drawer, continued.**

### Power:

- 100 or 240 VAC, 50/60 Hz via IEC power cord or adapter
- Consumption: Maximum 48 Watt, standby 5 Watt

### Regulatory:

- FCC, CE (all)
- UL (on P/Ns 37200-111 and 37200-112 only)

### Environmental:

- Operating: 32 to 122°F (0 to 50°C)
- Storage: 23 to 140°F (-5 to 60°C)
- Operating Relative humidity: 20% to 90%, non-condensing
- Storage Relative humidity: 5% to 90%, non-condensing
- Shock: 10G acceleration (11ms duration)
- Vibration: 5-500 Hz per 1G RMS random vibration

### Dimensions (H x W x D), Weight:

- Single Rail Drawer: 1.73" x 17.4" x 18.1" (44 mm x 442 mm x 460 mm), 27 lb (12.2 kg)
- Single Rail Carton: 6.6" x 23.2" x 33.7" (168 mm x 589 mm x 856 mm), 37 lb (16.8 kg)
  
- Dual Rail Drawer: 1.73" x 17.4" x 25.6" (44 mm x 442 mm x 650 mm), 30 lb (13.6 kg)
- Dual Rail Carton: 6.6" x 23.2" x 33.7" (168 mm x 589 mm x 856 mm), 43 lb (19.5 kg)

## **Additional Specifications for KVM Switches with DB15 ports**

### **KVM Ports:**

- Number of Ports, Connector: 16, DB15
- Connectivity: Combo KVM Cable up to 10 feet (3.0 meters) long, one per server; P/N 37208-161 for 6 feet (1.8 meters) long, P/N 37208-111 for 10 feet (3.0 meters) long

### **Expansion:**

- Up to 128 servers by eight-level cascade
- Requires Cascade Cable P/N 37208-162

## **Additional Specifications for KVM Switches with Cat5/6 ports**

### **KVM Ports:**

- Number of Ports, Connector: 16 or 32, RJ-45 (8P8C)
- Connectivity: VGA connector dongle up to 132 feet (40 meters) over Cat 5/6 UTP cable; order dongles separately, one per server, P/N 37208-103 for USB, P/N 37208-104 for PS/2

### **Remote Console:**

- Connector: 1 x RJ45 (8P8C), up to 500 feet (150 meters) over Cat 5/6 UTP
- Graphic connector, resolution: 1 x DB15 VGA, up to 1024 x 768 at 1,000 feet (300 meters); 1600 x 1200 at 500 feet (150 meters)
- Input Device: 2 x USB type A for keyboard and mouse

### **IP Console (P/N 37207-420 and 37207-360 only):**

- Connector: 1 x RJ-45 (8P8C)
- User management: 15-user accounts, 1 active user
- Browser: Internet Explorer, Firefox, Safari (must be Java-compatible)
- Security: SSL v3, RSA, AES, HTTP/HTTPS, CSR

### **Expansion:**

- Up to 128 or 256 servers by eight-level cascade; requires Cascade Cable P/N 37208-165

## How To Clean Your LCD Monitor



### Caution:

- To avoid the risk of electric shock, make sure your hands are dry before unplugging your monitor from or plugging your monitor into an electrical outlet.
- When you clean your monitor, do not press down on the LCD screen. Pressing down on the screen can scratch or damage your display. Pressure damage is not covered under warranty.
- Use only cleansers made specifically for cleaning monitors and monitor screens. Cleansers not made to clean monitors and monitor screens can scratch the LCD display or strip off the finish.
- Do not spray any kind of liquid directly onto the screen or case of your monitor. Spraying liquids directly onto the screen or case can cause damage which is not covered under warranty.
- Do not use paper towels or abrasive pads to clean your monitor. Using an abrasive pad or any wood based paper product such as paper towels can scratch your LCD screen.

### Cleaning Your Monitor

To clean your LCD safely, please follow these steps:

1. Disconnect the power cord.
2. Gently wipe the surface using a clean, dry microfiber cloth. Use as little pressure as possible.

### Cleaning Tough Marks and Smudges

To remove tough marks and smudges, please follow these steps:

1. Disconnect the power cord.
2. Spray a small amount of non-abrasive cleanser on a microfiber cloth.

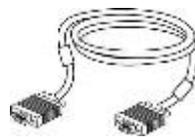
**Caution: Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.**

3. Gently wipe the surface. Use as little pressure as possible.
4. Wait until your monitor is completely dry before plugging it in and powering it up.

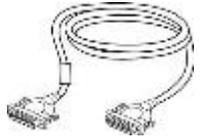
## Accessories – LCD KVM Drawer

<p><b>Combo KVM Cable, 6 feet (1.8 meter) long, P/N 37208-161, 1 each</b></p> <p><b>Combo KVM Cable, 10 feet (3.0 meter) long, P/N 37208-111, 1 each</b></p> <p>For server or KVM Switch connection, used to connect the LCD KVM Drawer to a server or a KVM Switch. Two lengths are available. Each cable includes connectors for USB and PS/2 keyboard and mouse. One 6 feet (1.8 meter) long cable (P/N 37208-161) is included with each drawer. Order this cable only as a replacement cable</p>	
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## Accessories for KVM Switches with DB15 ports

<p><b>Combo KVM Cable, 6 feet (1.8 meter) long, P/N 37208-161, 1 each</b></p> <p><b>Combo KVM Cable, 6 feet (1.8 meter) long, P/N 37208-861, 8 pack</b></p> <p><b>Combo KVM Cable, 6 feet (1.8 meter) long, P/N 37208-661, 16 pack</b></p> <p><b>Combo KVM Cable, 10 feet (3.0 meter) long, P/N 37208-111, 1 each</b></p> <p><b>Combo KVM Cable, 10 feet (3.0 meter) long, P/N 37208-811, 8 pack</b></p> <p><b>Combo KVM Cable, 10 feet (3.0 meter) long, P/N 37208-611, 16 pack</b></p> <p><b>Combo KVM Cable Bundle, 10 each P/N 37208-161 and 6 each P/N 37208-111</b></p> <p><i>Includes 10 each 6 feet (1.8 meter) and 6 each 10 feet (3.0 meter) long cables</i></p> <p>For server connection, used to connect servers to the switch. Two lengths available. Each cable includes connectors for USB and PS/2 keyboard and mouse. Order one cable per server.</p>	
<p><b>Cascade Cable, 6 feet (1.8 meter) long, P/N 37208-162</b></p> <p>For expansion, used to connect two switches together to increase available ports.</p>	

## Accessories for KVM Switches with Cat5/6 ports

<p><b>VGA-USB Dongle, P/N 37208-103, 1 each</b> <b>VGA-USB Dongle, P/N 37208-803, pack of 8</b> <b>VGA-USB Dongle, P/N 37208-603, pack of 16</b></p> <p>For server connection, used to connect servers with VGA monitor and USB keyboard and mouse to the switch using a Cat 6 UTP cable with RJ45 connectors. Order one dongle per server. Order the UTP cable/patch cord separately.</p>	 A line drawing of a VGA-USB dongle. It consists of a small rectangular device with a VGA connector on one side and a USB connector on the other. A short cable is attached to the device.
<p><b>VGA-PS/2 Dongle, P/N 37208-104, 1 each</b> <b>VGA-PS/2 Dongle, P/N 37208-804, pack of 8</b> <b>VGA-PS/2 Dongle, P/N 37208-604, pack of 16</b></p> <p>For server connection, use to connect servers with VGA monitor and PS/2 keyboard and mouse to switch using a Cat 6 UTP cable with RJ45 connectors. Order one dongle per server. Order the UTP cable/patch cord separately.</p>	 A line drawing of a VGA-PS/2 dongle. It consists of a small rectangular device with a VGA connector on one side and a PS/2 connector on the other. A short cable is attached to the device.
<p><b>Cascade Cable, 6 feet (1.8 meter) long, P/N 37208-165</b></p> <p>For expansion, used to connect two switches together to increase available ports.</p>	 A line drawing of a cascade cable. It is a long, thin cable with two RJ45 connectors at each end. The cable is shown in a coiled position.