User Manual   17" FHD 1080p LCD

F17I G8 -801L / 1601L

1U LCD Console Drawer
w/ Combo DB-15 8 - port / 16 - port KVM

1080p
Full HD

FC CE RoHS REACH

751

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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 40º Celsius (104º 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

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.

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.

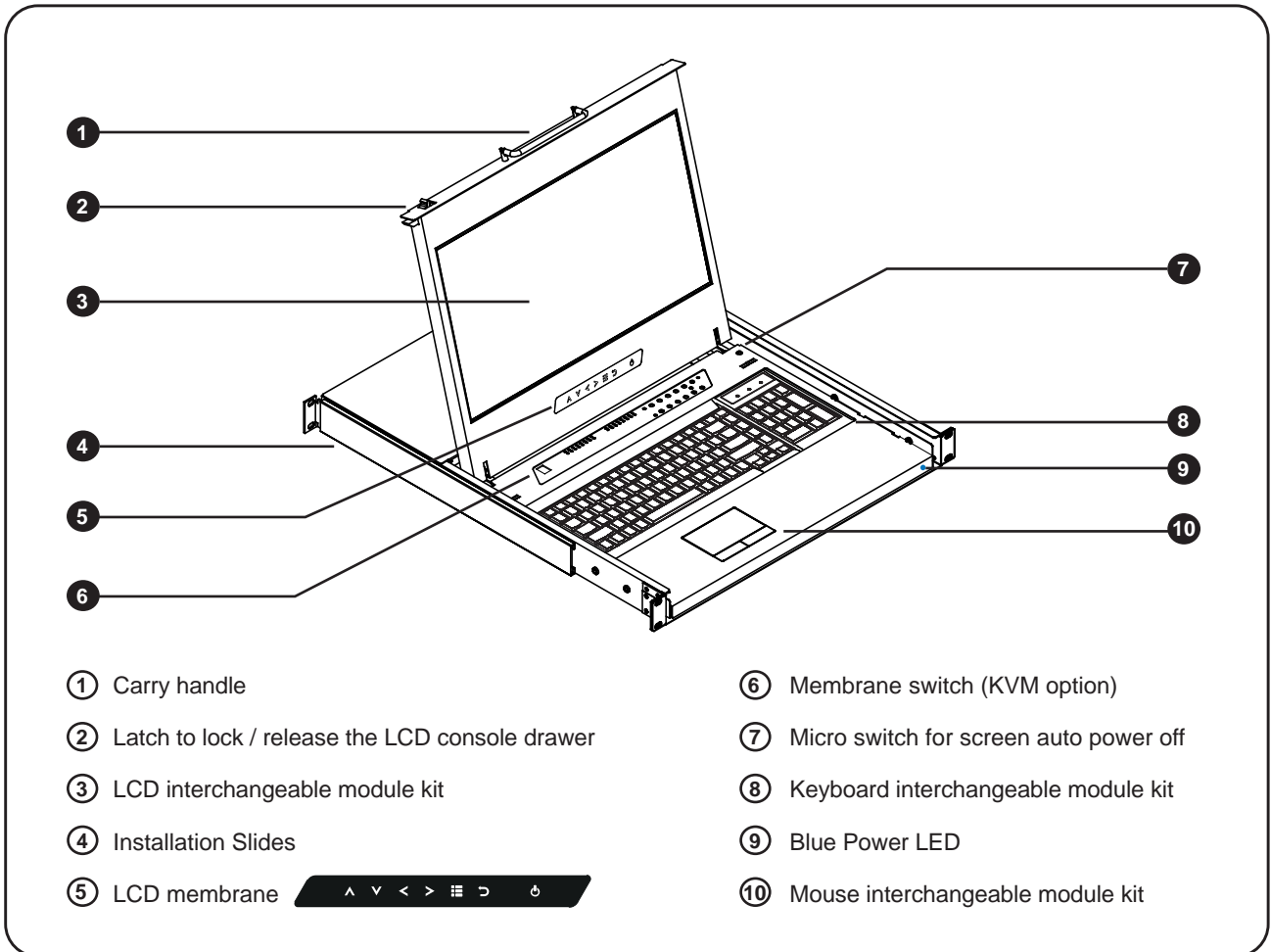④ Wait until your monitor is completely dry before plugging it in and powering it up.

< Part 1 >
< 1.1 > Package Content
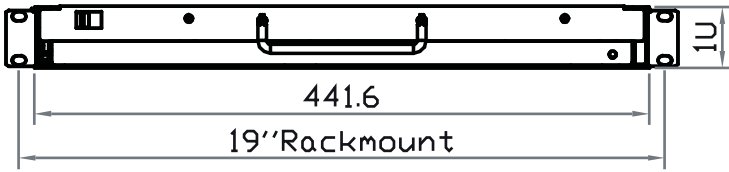
F17USD-801X or F17USD-1601X x 1

- CB-6 6ft USB KVM cable X 8
(Alternative for PS/2 KB / MS :KVM-COMBO-6 KVM cable)
- Power adapter & Power cord X 1
- M6 screw, cage nut & cup washer X 8
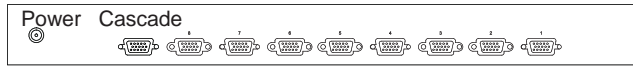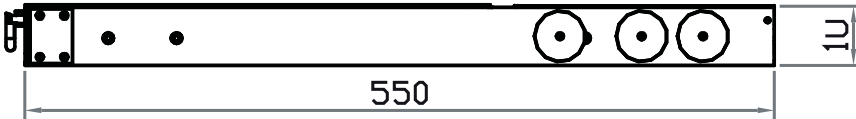- Installation slide X 1 pair

< 1.2 > Structure Diagram

①	Carry handle	⑥	Membrane switch (KVM option)
②	Latch to lock / release the LCD console drawer	⑦	Micro switch for screen auto power off
③	LCD interchangeable module kit	⑧	Keyboard interchangeable module kit
④	Installation Slides	⑨	Blue Power LED
⑤	LCD membrane	⑩	Mouse interchangeable module kit

< 1.2 > Dimension

Front View

441.6

19''Rackmount

Rear View

F17USD-801X
8-port

Power   Cascade

Side View

UNIT : mm
1mm = 0.03937 inch

550

Top View

441.6

550
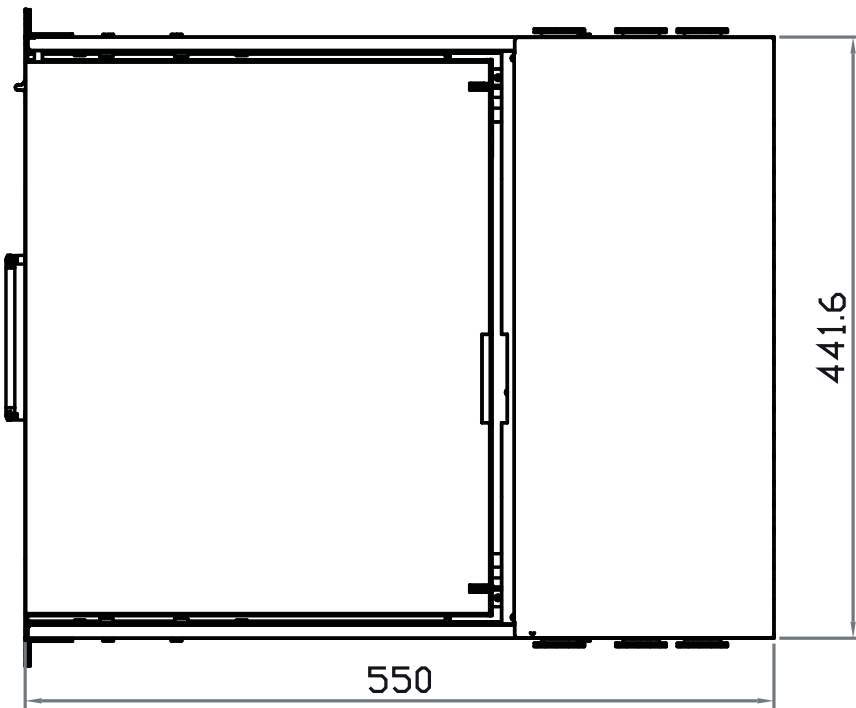
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
F17USD-801X **F17USD-1601X**	441.6 x 550 x 44 mm 17.4 x 21.7 x 1.73"	590 x 768 x 140 mm 23.2 x 30.2 x 5.5"	11.6 kg 25.5 lb	17.5 kg 38.5 lb

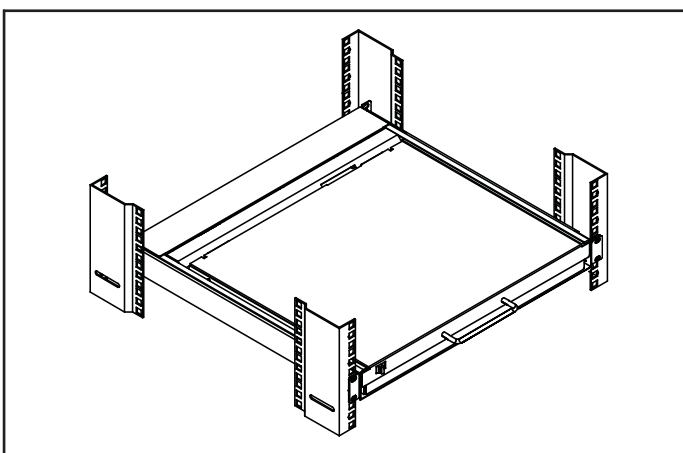# < 1.3 > Installation - How to install   Installation Slides
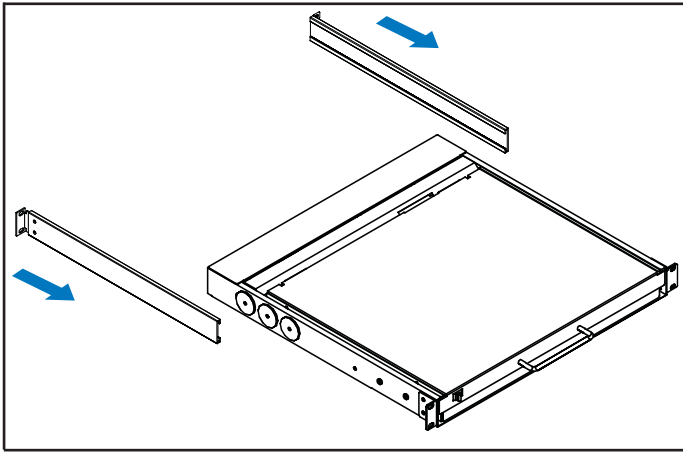
Step **1**

■ Insert the left and right rear mounting bracket into the LCD console drawer.
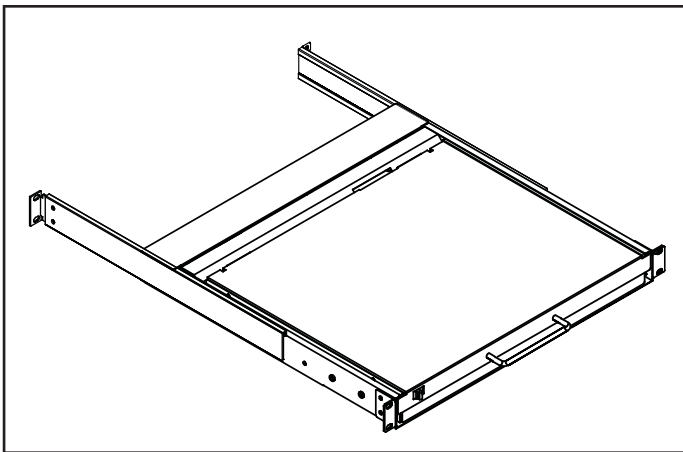
Step **2**

■ Measure the depth of the front and rear mounting rails.

■ Align each rear mounting bracket to a suitable length.

Step **3**

Complete the installation

■ Fix the LCD console drawer into the rack.

⚠ **M6 screw, cage nut & cup washer x 8 are provided.**

< Part 2 >

< 2.1 > Product Specifications

LCD Panel	Panel Size (diagonal)	17.3-inch Widescreen TFT color LCD
	Display pixel (dots x lines)	1920 x 1080
	Brightness (typ.)	400
	Contrast Ratio (typ.)	600:1
	Color	16.7 M, 8-bit
	Viewing Angle (L/R/U/D)	80/80/60/80
	Response Time (ms)	40
	Dot pitch (mm)	0.1989
	Display Area (mm)	381.888H x 214.812V
	Surface treatment	Anti-glare, Hard-coating
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	50,000

Video Connectivity	Analog	VGA	Analog 0.7Vp-p
	Plug & Play	VGA	VESA EDID structure 1.3
	Synchronization	VGA	Separate, Composite & SOG

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption with KVM integration	Screen ON	8-port : Max. 30W 16-port : Max. 32W
		Power saving mode	8-port : Max. 9W 16-port : Max. 11W

Regulatory	Safety	FCC & CE
	Environmental	RoHS2 & REACH compliant

| Environmental Conditions	Operating	Temperature	0 to 55°C degree
		Humidity	20~90%, non-condensing
		Altitude	16,000 ft
	Storage / Non-operating	Temperature	-20 to 60°C degree
		Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

Physical Specification	Product (W x D x H)	441.6 x 550 x 44 mm
		17.4 x 21.7 x 1.73 inch
	Packing (W x D x H)	590 x 768 x 140 mm
		23.2 x 30.2 x 5.5 inch
	Net Weight	11.6 kgs / 25.5 lbs
	Gross Weight	17.5 kgs / 39 lbs

Applicable Format	VGA Input	PC Signal	1920 x 1080 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 768 x 60 / 75Hz
			1152 x 864 x 75Hz
			1024 x 768 x 60 / 70 / 75Hz
			848 x 480 x 60Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
			640 x 400 x 70Hz
			640 x 350 x 70Hz

< 2.2 > Keyboard / Mouse Specifications

tp   tp keyboard integrated with touchpad
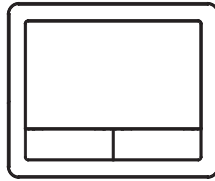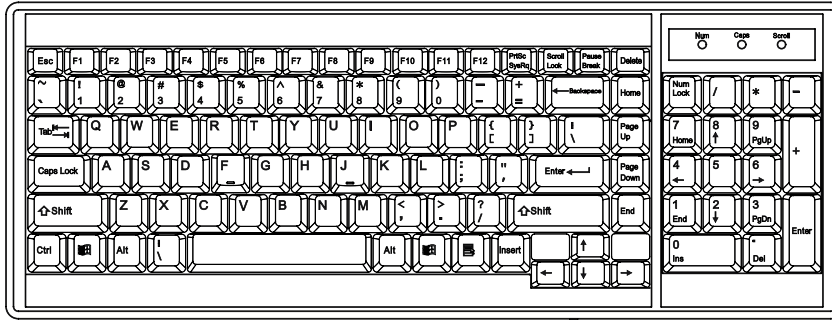
Key force	55 ± 5g
Travelling distance	3 ± 0.3mm
Switch life	> 10 million life cycle time
Software support	MS Windows 7 / 2008 / 2003 / 2000 / XP / ME / 98 / DOC Linux / Mac

Supporting layouts

America	United States				
EMEA	United Kingdom	Germany	France	Spain	Norway
	Italy	Russia	Switzerland	Netherlands	Portugal
Asia	China	Japan	Korea	Arabia	Turkey
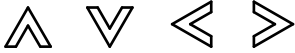
< 2.3 > On-screen Display Operation (OSD)

∧ ∨ < > ☰ ↩ ⏻

Membrane Switch	Function
⏻	Turn the monitor on or off
☷	Display the OSD menu Act as an Enter key to select screen setting options
∧ ∨ ≪ ≫	Scroll through menu options and adjust the displayed control
↩	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu

Remark : All LED touch buttons in **WHITE** light.
The LED of **Power** ⏻ touch button will flash continuously when there is no signal input.

① All the LED touch buttons will automatically turn off after 10 minutes of idle status (except the **Power** ⏻).

② Light up all membrane buttons, please press any button for 1 - 2 seconds (except the **Power** ⏻).

< 2.3 > On-screen Display Operation (OSD)

Ver: G56SN20SSTD701		1024 x 768 59.8Hz

Image

Brightness	▬▬▬▬▬▬▬	50
Contrast	▬▬▬▬▬▬▬	50
Color Temp	User	
Red	▬▬▬▬▬▬▬▬▬▬	255
Green	▬▬▬▬▬▬▬▬▬▬	255
Blue	▬▬▬▬▬▬▬▬▬▬	255

Adjust: ←→   Select: ↑↓   Set: ◉/▣   Exit: ↺

OSD Configuration Page

Image:
for the brightness, contrast, color temp, red, green, and blue

Geometry:
for the auto adjust, H position, V position, phase and clock

Video:
for the colour, tint, sharpness, noise reduction, DCDi and TV Setup

Audio:
for volume, bass, treble, balance, AVL and mute

Misc:
for the language, OSD position, graphic mode, ratio, reset and timer

< Part 3 > KVM Connection
Combo DB-15 8-port / 16-port KVM

8-port   **KVM Rear Kit**

back
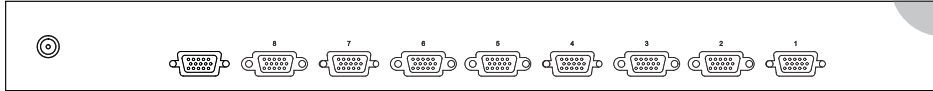
16-port
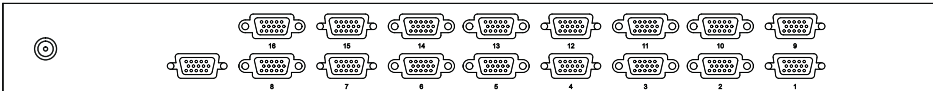
< 3.1 > KVM port connection

KVM-B-6 / B-10 / B-15

- 6 / 10 / 15 ft USB KVM cable
- Support USB server
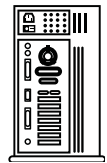
USB Servers

DB-15 Combo KVM port

Drawer KVM Rear Kit
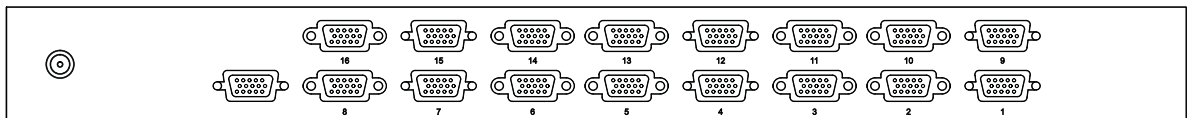
CB - 6 / 10 / 15 USB KVM cable
support USB server

USB Servers
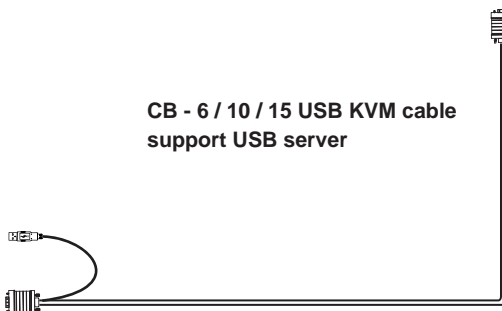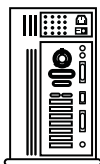
< 3.2 > KVM Cascade

■ 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 KVM-S8 / KVM-S16**

⚠ **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).**

Master KVM   Drawer KVM Rear Kit

Cascade

To console VGA port

Slave KVM level 2   Standalone KVM

Slave KVM level 3   Standalone KVM

Slave KVM level 4   Standalone KVM

Slave KVM level 5   Standalone KVM

Slave KVM level 6   Standalone KVM

Slave KVM level 7   Standalone KVM

Slave KVM level 8   Standalone KVM
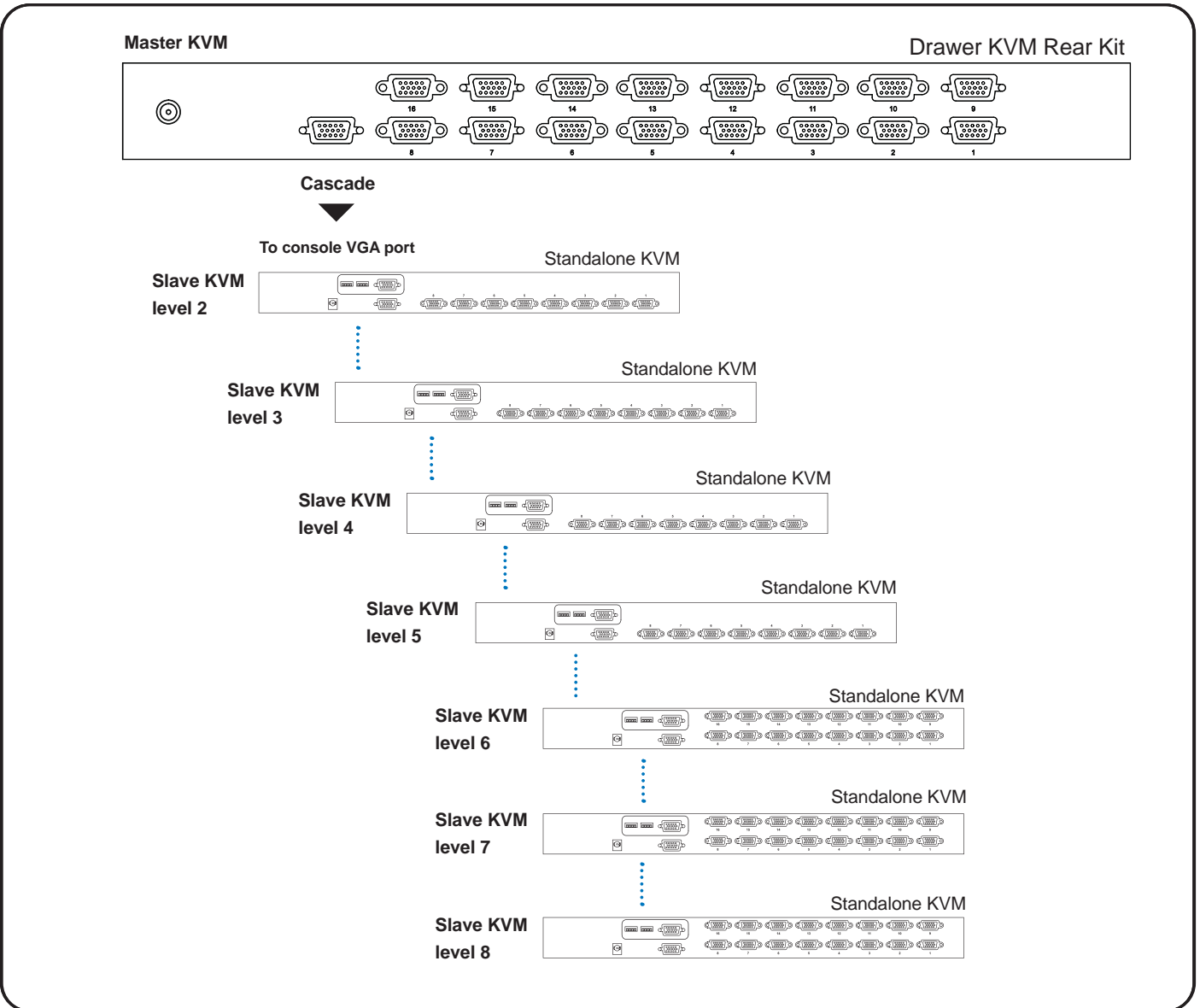
KVM-BC-6

■ 6ft Combo KVM cascade cable

< 3.3 > Specifications

		-S8	-S16	
■	**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 version		
■	**Management**			
	Multilingual OSD :	English, France, German, Spanish, Italian, Russian, Simplified Chinese, Japanese		
	Hotkey combination :	Scroll-lock, Cap-lock, Num-lock, Alt, Ctrl & Win		
	Security :	Password enable & disable, up to 8 users profile for port access		
	PC Selection :	Front button, OSD menu & hotkey		
■	**Expansion :**	Up to 128 servers by 8-level cascade		
■	**Compatibility**			
	Hardware :	HP / IBM / Dell PC, Server and Blade Server SUN / Mac		
	OS Support :	Windows / Linux / Unix / Mac OS		
■	**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	

< 3.4 > 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

Bank no.　　　PC port LEDs　　　Channel button　　　Bank button
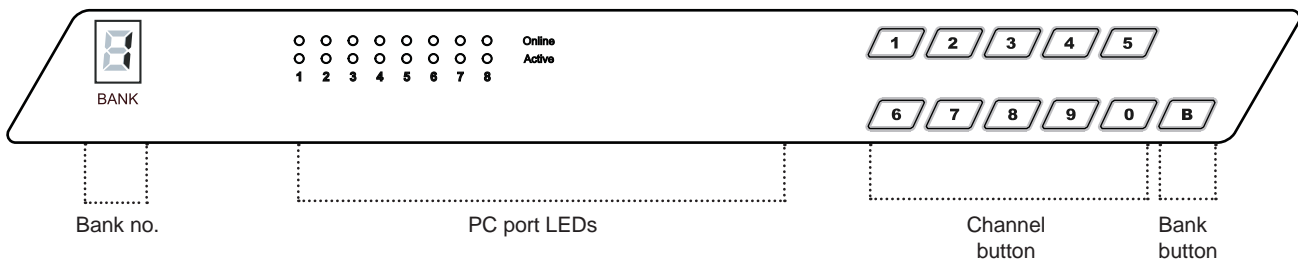
16 ports
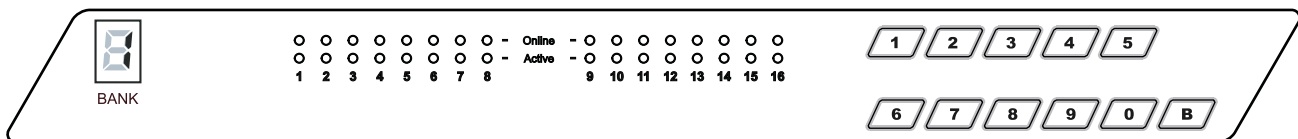
Bank no.	7-Segment BANK LED indication
PC port LEDs	*Online* : **Blue** LED on indicating a PC is connecting to the port
	Active : **Green** LED on indicating a selected channel
Channel button	Press to select channel from 01 to 16
Bank button	Select the bank from 1 to 8

< 3.5 > Password

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
2. Call KVM OSD menu by pressing the KVM hotkey **Scroll Lock + Scroll Lock + Space Bar**
3. Press **F1** to the MAIN MENU
4. Select "USER SECURITY"
5. Change password in SUPERVISOR & USER level
   a. In the left-top row "S" (SUPERVISOR), press **Enter** to change your user name & password
   b. In the row 1 to 8 (USER), press **Enter** to change your user name & password
6. Press **Enter** to save the setting or press **Esc** to cancel the editing without any change
   Remark: a. Blank has underscore, while SPACE doesn't have
         b. Press any alphanumeric key to move to next input item. SPACE is treated as a valid character

■ **Disable your password**
1. Press the KVM hotkey **Scroll Lock + Scroll Lock + U**
2. Logout the KVM by pressing the KVM hotkey **Scroll Lock + Scroll Lock + P**
3. You don't need user name & password to access the KVM OSD menu

■ **Forget your password**
Please contact your supplier for further support

Remark:
■ You must press the KVM hotkey within 2 seconds
■ A beep sound will be heard for successful entering KVM hotkey

OSD Menu

```
PORT   NAME

BANK : 1                        F1 : MENU
01☼  SYSTEM      01☞          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
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

< 3.7 > KVM Hotkey & Remote Console Hotkey

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 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 8
- Port No. : 01 to 16
- e.g. Bank 1 Port 4 : **Scroll Lock + Scroll Lock + 1 + 0 + 4**
- e.g. Bank 2 Port 8 : **Scroll Lock + Scroll Lock + 2 + 0 + 8**

■ You must press the hotkey within 2 seconds

■ A beep sound will be heard for successful entering

■ The numeric keypad is not supported, while in OSD screen, the arrow keys, PgUp, PgDn, and Enter keys are supports

Remote Console Hotkey	Function
Scroll Lock + Scroll Lock + C	Toggle switch between remote & local port
Scroll Lock + Scroll Lock + Q	Turn the buzzer ON & OFF *Default the buzzer is ON
Scroll Lock + Scroll Lock + S	Activate auto-scan mode for remote & local port *The scan time interval is 5 seconds
Scroll Lock + Scroll Lock + A	Auto-adjust the video signal

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