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User Manual   2U Multi-Display Console Drawer

FC CE UK CA RoHS REACH

L mounted

R mounted

4K UHD	LCD2U17-2K-02L	LCD2U17-3K-02	LCD2U17-2K-02R
1080p 60 Hz	LCD2U17-2H-02L	LCD2U17-3H-02	LCD2U17-2H-02R
1080p 60 Hz (High Bright)	LCD2U17-2H-03L	LCD2U17-3H-03	LCD2U17-2H-03R
1920 1200	LCD2U17-2X-02L	LCD2U17-3X-02	LCD2U17-2X-02R
1280 1024	LCD2U19-2T-02L	LCD2U19-3T-02	LCD2U19-2T-02R
1280 1024 (High Bright)	LCD2U19-2T-03L	LCD2U19-3T-03	LCD2U19-2T-03R

Legal Information

First English printing, August 2022

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.

< 1.1 > Package Content

LCD2U17-3K-02 unit X 1

- 6ft DP cable X 2 or 3

- USB (B) to (A) cable X 1

- Power adapter & Power cord X 1

- M6 screw, cage nut & cup washer X 8
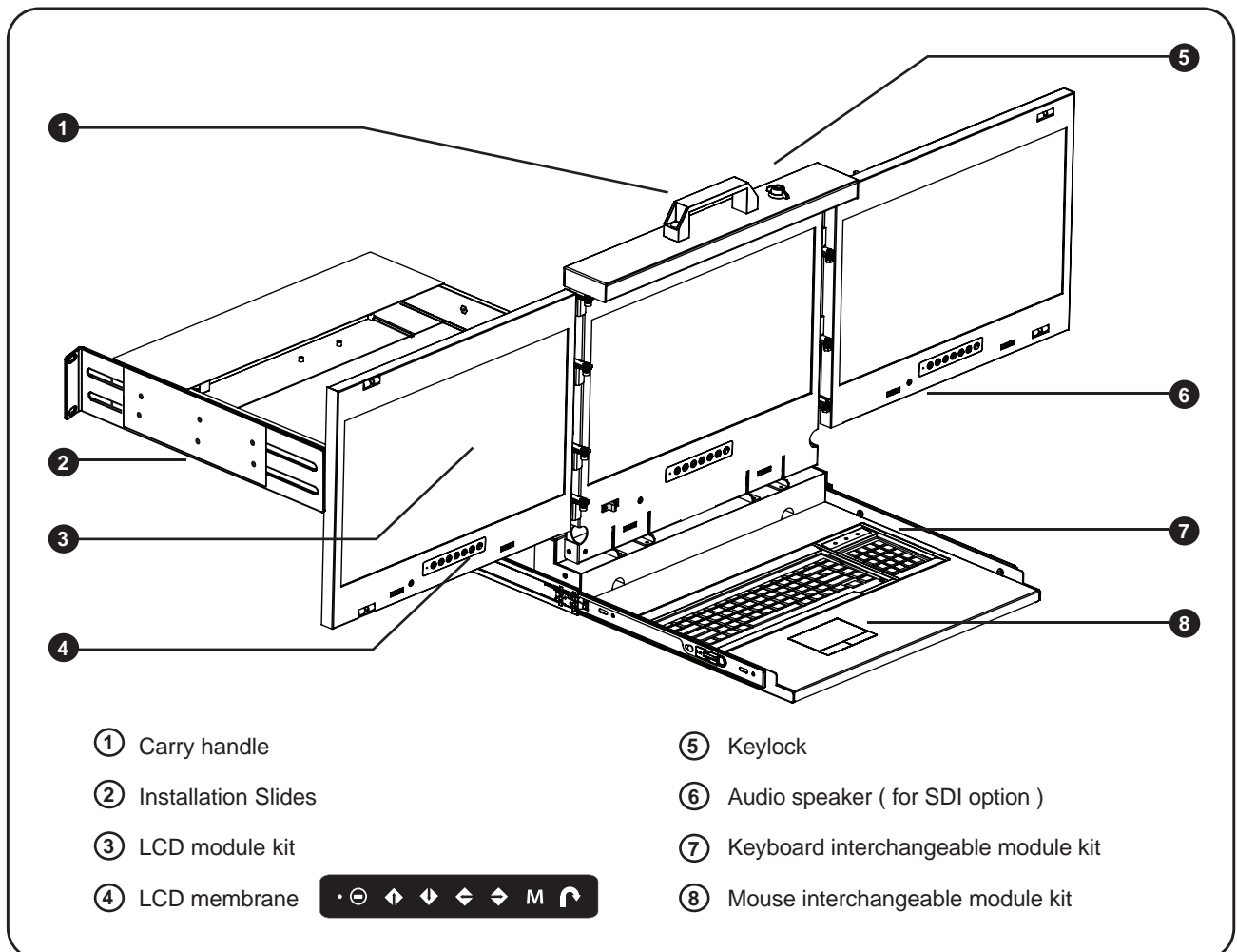
LCD2U17-3H-02 / -03 unit X 1
LCD2U17-3X-02 or LCD2U19-3T-02 / -03 unit X 1

- 6ft DVI cable X 2 or 3

- USB keyboard cable X 1

- Power adapter & Power cord X 1

- M6 screw, cage nut & cup washer X 8

⚠ **The above package content is only for the single console models.**
It varies with options such as SDI & DC power.

< 1.2 > Structure Diagram

① Carry handle

② Installation Slides

③ LCD module kit

④ LCD membrane `· ⊖ ◆ ◆ ◆ ◆ M ↰`

⑤ Keylock

⑥ Audio speaker (for SDI option)

⑦ Keyboard interchangeable module kit

⑧ Mouse interchangeable module kit

< 1.2 > LCD2U17-3K / 3H / 3X Dimension
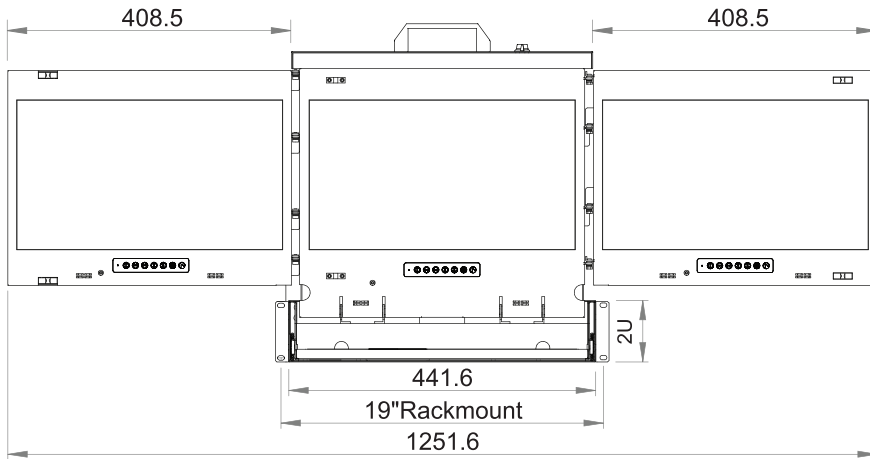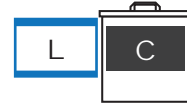
Front View

1mm = 0.03937 inch

408.5   408.5

2U

441.6

19"Rackmount

1251.6

Triple display

| L | C | R |

Dual display (LH mounted)

| L | C |

Dual display (RH mounted)

| C | R |

Rear View

LCD2U17-3K

	DP	Keyboard	Power
Central			
Left		Mouse	
Right			

LCD2U17-3H / 3X

	DVI-D	VGA	Keyboard	Power
Central				
Left			Mouse	
Right				

Side View

486.9

90°

178

2U

559.7   550
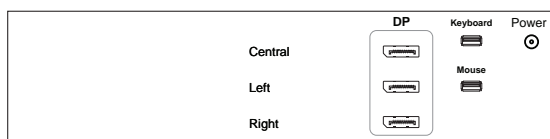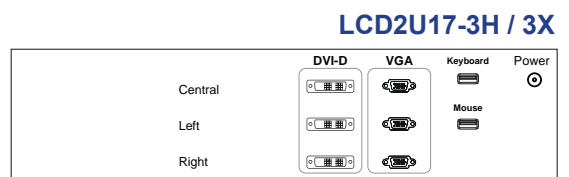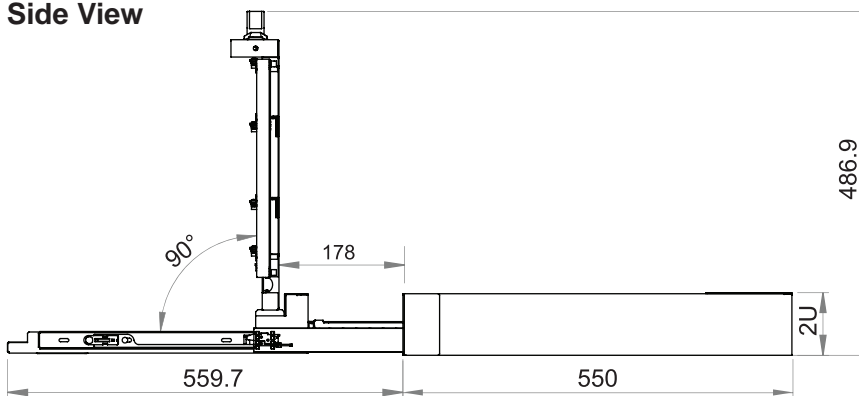
Top View
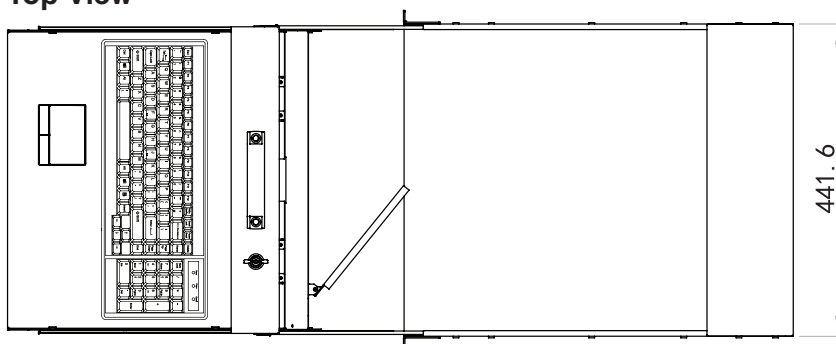
441.6

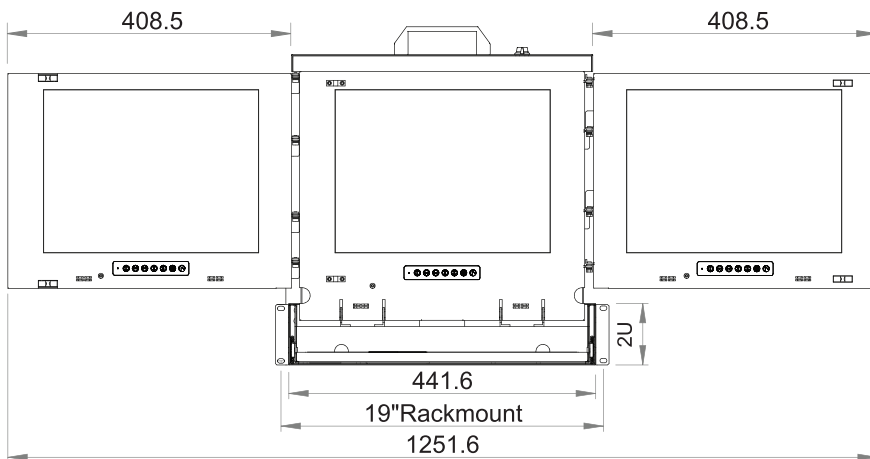| Model		Display	Product Dimension (W x D x H)	Net Weight
LCD2U17 Series	-3	Triple	441.6 x 550 x 88 mm 17.4 x 21.7 x 3.5 inch	25.7 kg 56.5 lb
	-2L	Dual LH mounted	441.6 x 550 x 88 mm 17.4 x 21.7 x 3.5 inch	21 kg 46.2 lb
	-2R	Dual RH mounted		

⚠ **The weight is only for the single console models. It varies with accessories & options .**

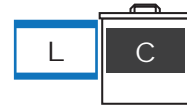## < 1.2 > LCD2U19-3T Dimension

Front View

1mm = 0.03937 inch

408.5

408.5

Triple display

| L | C | R |

Dual display (LH mounted)

| L | C |

2U

441.6

19"Rackmount

1251.6

Dual display (RH mounted)

| C | R |

Rear View

	DVI-D	VGA	Keyboard	Power
Central				
Left			Mouse	
Right				

Side View

558.9

90°

103.5

2U

559.7

600
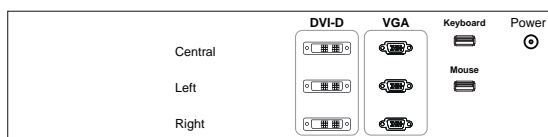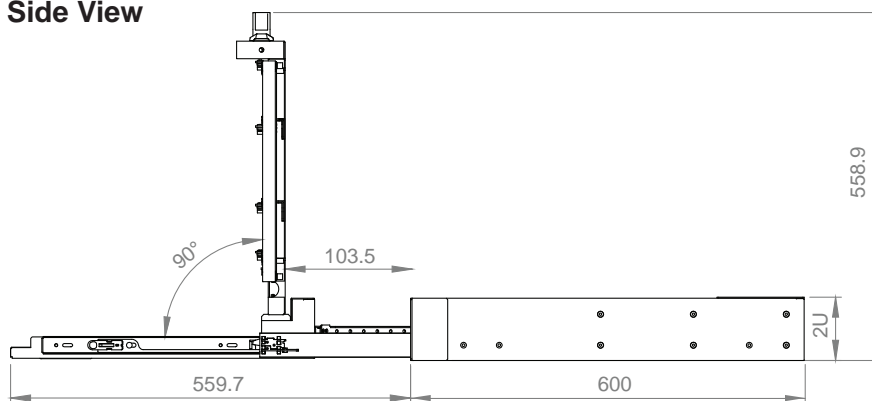
Top View
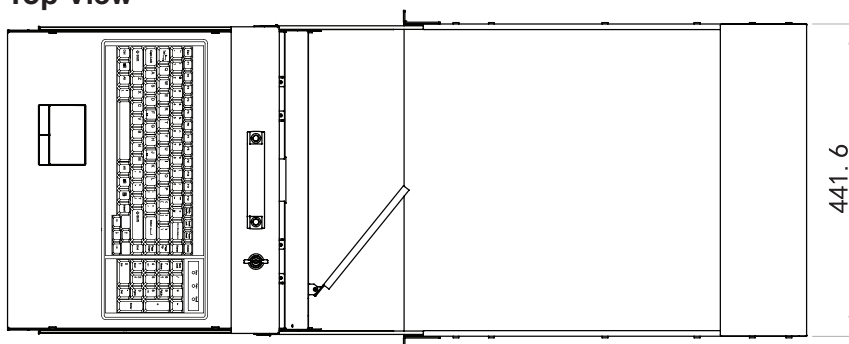
441.6

| Model		Display	Product Dimension (W x D x H)	Net Weight
LCD2U19 Series	-3	Triple	441.6 x 600 x 88 mm 17.4 x 23.6 x 3.5 inch	26.7 kg 58.7 lb
	-2L	Dual LH mounted	441.6 x 600 x 88 mm 17.4 x 23.6 x 3.5 inch	22 kg 48.4 lb
	-2R	Dual RH mounted		

⚠ **The weight is only for the single console models. It varies with accessories & options .**

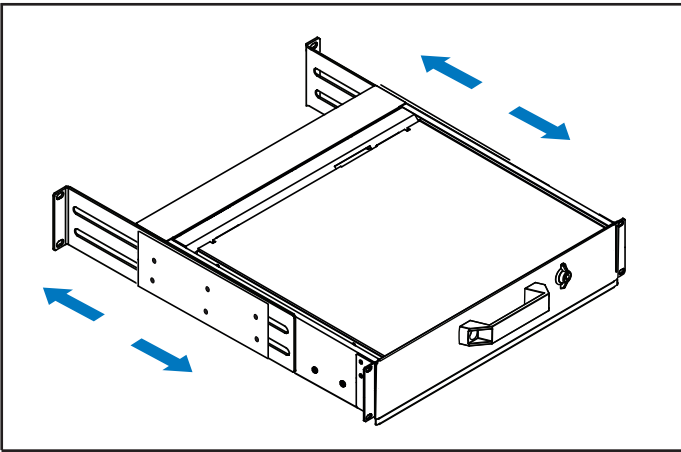## < 1.3 > Installation - How to install Installation Slides

Step 1

■ The left and right rear mounting brackets are attached to the Multi-display console drawer.
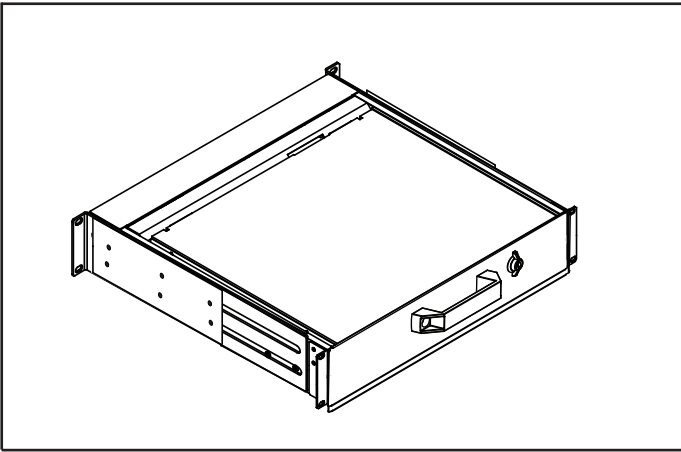
Step 2

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

■ Align each rear mounting bracket to a suitable length.
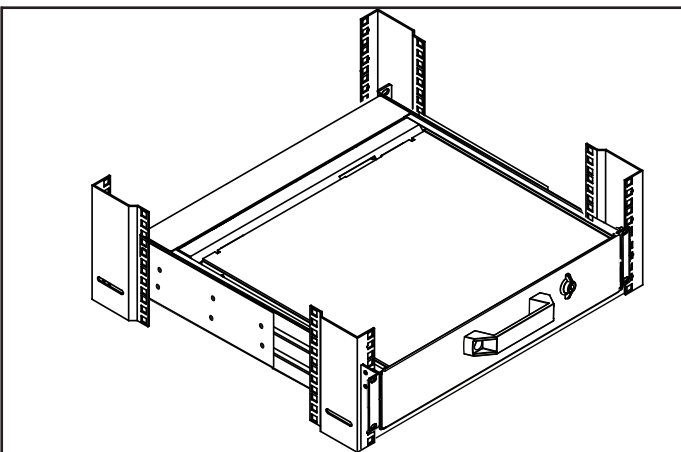
■ Mounting distance : 550 - 790 mm

Step 3

Complete the installation

■ Fix the Multi-display console drawer into the rack.

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

< 1.3 > Installation - How to Use the │ Multi-Display │ Drawer

Step **1**

■ Unlock the key cylinder to 3 o'clock direction.

Step **2**

■ Hold the handle and slide out the drawer.

Step **3**

■ Flip up the LCD to a suitable angle.

Step **4**

■ Open the │ Left │ / │ Right │ display.

< 1.3 > Installation - How to Use the ｜Multi-Display｜ Drawer

Step **5**

■ Operate the multi-display drawer.

Step **6**

■ Close the ｜ Left ｜ / ｜ Right ｜ display.

■ Flip down the LCD completely.

Step **7**

■ Must completely extend the drawer before returning it to the park position.

■ Then pull and hold both side release buttons when pushing the drawer back to the rack.
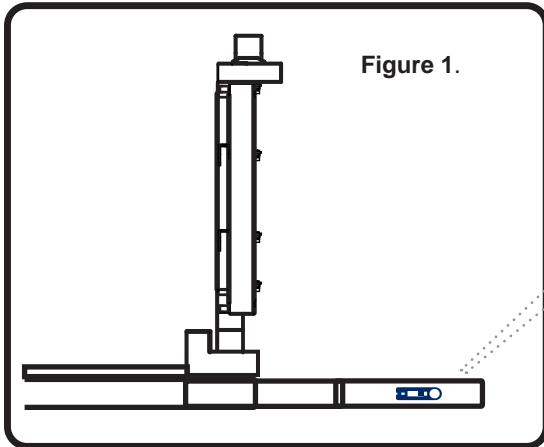
⚠️ **The above steps are necessary.**
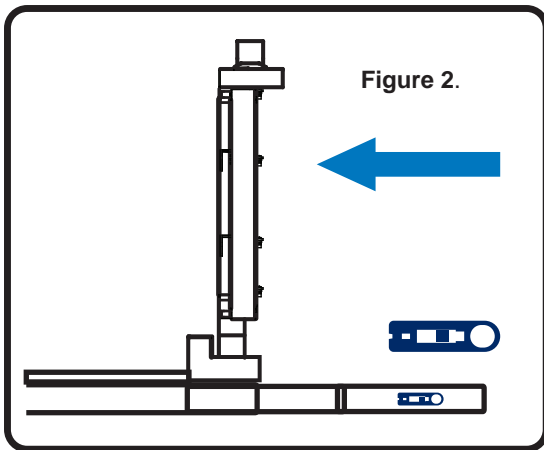**Failure to complete these will cause damage.**

Step **8**

■ Return the multi-display drawer to park position.

< 1.3 > Installation - How to Use the Slides

Figure 1.

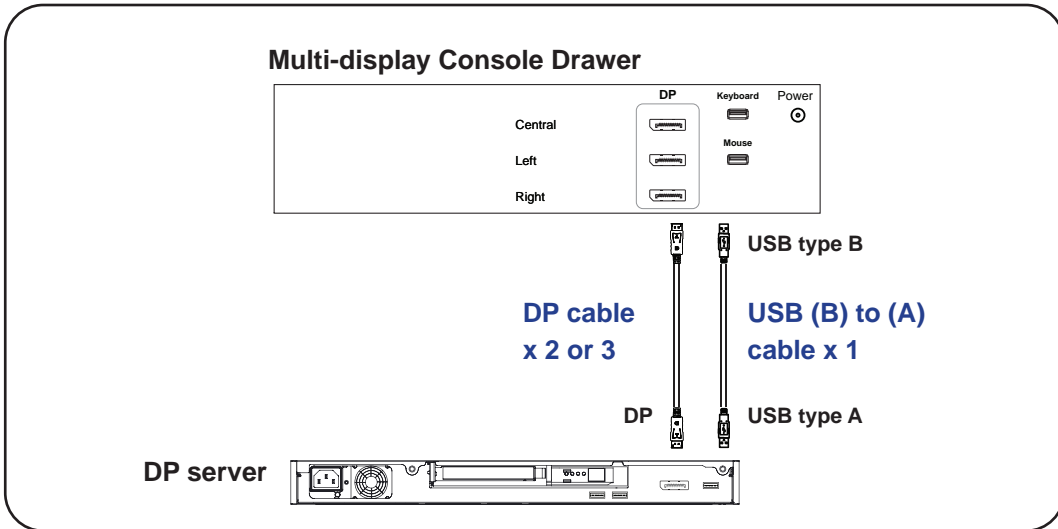■ A purple release button is located on the front of the slide. (shown in **Figure 1)**.

Figure 2.

■ Pull and hold both side release buttons when pushing the Multi display console drawer back to the rack. (shown in **Figure 2)**.
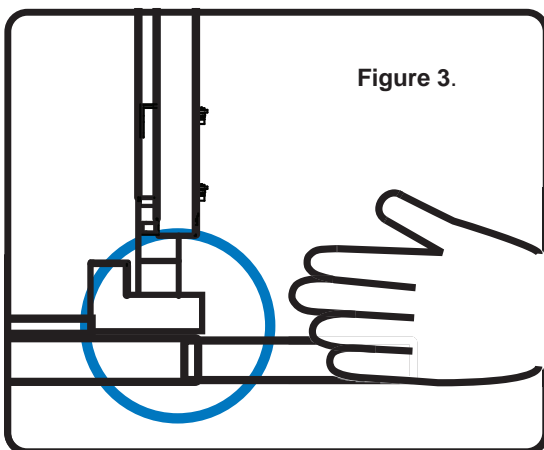
Figure 3.

⚠ **Caution :** Keep your fingers away from the slide stop. (shown in **Figure 3)**.

< 1.4 > LCD2U17-2K or 3K connection to | DP Server |

Multi-display Console Drawer

	DP	Keyboard	Power
Central			
Left		Mouse	
Right			

USB type B

DP cable
x 2 or 3

USB (B) to (A)
cable x 1
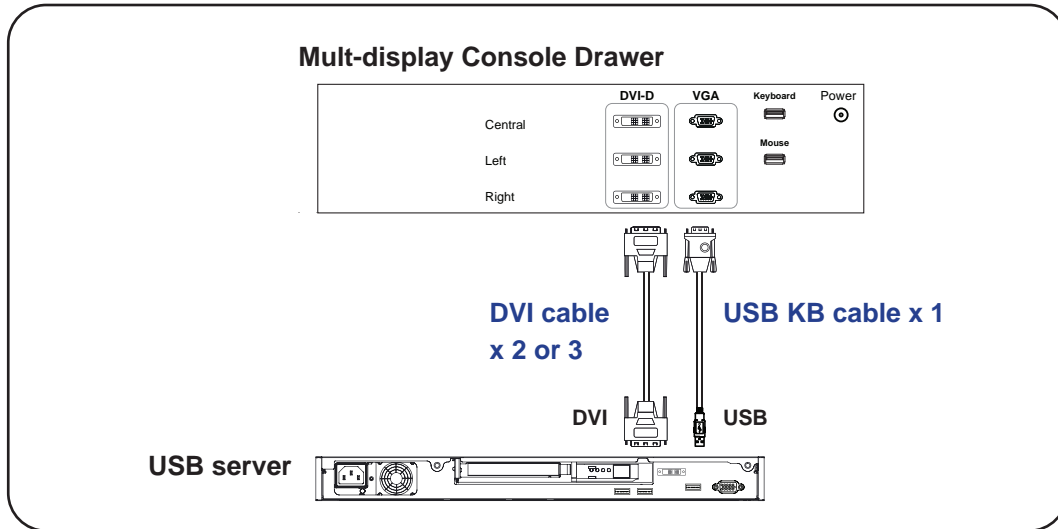
DP

USB type A

DP server

* DP cable x 2 and USB (B) to (A) cable x 1 for dual display

⚠️

Caution : The LCD console 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 are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting to connect anything to the LCD console drawer, we suggest turning off the power to all devices. Apply power to connected devices again only after the LCD console drawer is receiving power. The company is not responsible for damage caused in this way.

< 1.4 > LCD2U17-2H / 3H / 2X / 3X & LCD2U19-2T / 3T
connection to │ USB Server │

Mult-display Console Drawer

	DVI-D	VGA	Keyboard	Power
Central				
Left			Mouse	
Right				

DVI cable x 2 or 3

USB KB cable x 1

DVI

USB

USB server

* DVI cable x 2 and USB KB cable x 1 for dual display

⚠️

Caution : The LCD console 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 are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting to connect anything to the LCD console drawer, we suggest turning off the power to all devices. Apply power to connected devices again only after the LCD console drawer is receiving power. The company is not responsible for damage caused in this way.

< Part 2 >
< 2.1 > Product Specifications

LCD Panel		**LCD2U17-3K**
	Native Resolution	3840 x 2160@60Hz
	Panel Size (diagonal)	17.3-inch TFT color LCD
	Brightness (cd/m²)	400
	Contrast Ratio (typ.)	1000:1
	Colors	16.7 M, 8-bit
	Viewing Angle (L/R/U/D)	89/89/89/89
	Response Time (ms)	Max. 16
	Dot pitch (mm)	0.0995
	Display Area (mm)	382.12H x 214.94V
	Surface treatment	Anti-glare
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	15,000

Video		
	Package	DP 1.2 / HDCP 1.3
	Option	HDMI 2.0 / HDCP 2.2

Power			
	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen ON	Max. 21W
		Power saving mode	Max. 2W
		Power button OFF	Max. 1W

Compliance		
	EMC	FCC & CE
	Safety	CE / LVD & UKCA
	Environmental	RoHS3 & REACH / WEEE

Environmental Conditions			
	Operating	Temperature	0 to 55°C degree
		Humidity	10~90%, 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	10~300Hz 0.5G RMS random

< 2.1 > Product Specifcations

Physical Specification	Product (W x D x H)		mm	441.6 x 550 x 88
			inch	17.4 x 21.7 x 3.5
	Weight	Net	Triple display	25.7 kg / 56.5 lb
			Dual display	21 kg / 46.2 lb

* All dimensions stated are subject to change if options are selected / integrated to base model part codes

Applicable Format	Display Port Input	PC Signal	3840 x 2160 x 60Hz
			2560 x 1440 x 60Hz
			1920 x 1080 x 60Hz
			1600 x 1200 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 768 x 60Hz
			1024 x 768 x 60 / 70 / 75Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
		Audio Signal	2ch Linear PCM
	HDMI Input	HDMI 2.0	3840 x 2160 x 60Hz
			2560 x 1440 x 60Hz
		HDMI 2.0 / 1.4	3840 x 2160 x 30Hz
			2560 x 1440 x 60Hz
			1920 x 1080 x 50 / 60Hz (1080p)
			1920 x 1080 x 25 / 30Hz (1080i)
			1280 x 720 x 50 / 60Hz (720p)
			720 x 480 x 50 / 60Hz (576p / 480p)
		Audio Signal	2ch Linear PCM

< 2.1 > Product Specifications

LCD Panel		**LCD2U17-3H-02**	**LCD2U17-3H-03**
	Native Resolution	1920 x 1080	1920 x 1080
	Panel Size (diagonal)	17.3"	17.3"
	Standard Brightness (cd/m²)	300	1000
	Contrast Ratio (typ.)	1000:1	600:1
	Colors	16.7 M, 8-bit	16.7 M
	Viewing Angle (L/R/U/D)	85/85/85/85	80/80/60/80
	Response Time (ms)	25	25
	Dot pitch (mm)	0.1989	0.1989
	Display Area (mm)	381.888H x 214.812V	337.92H x 270.33V
	Surface treatment	Anti-glare, Hard-coating	Anti-glare, Hard-coating
	Surface hardness	3H	3H
	Backlight Type	LED	LED
	MTBF (hrs)	15,000	50,000

Video		
	Package	DVI-D + VGA
	Option	HDMI 1.4 / HDCP 1.4 or DP 1.0 / HDCP 1.3

Power			
	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen ON	Max. 14W (39W for LCD2U17-3H-03)
		Power saving mode	Max. 2W
		Power button OFF	Max. 1W

Compliance		
	EMC	FCC & CE
	Safety	CE / LVD & UKCA
	Environmental	RoHS3 & REACH / WEEE

Environmental Conditions			
	Operating	Temperature	0 to 55°C degree
		Humidity	10~90%, 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	10~300Hz 0.5G RMS random

< 2.1 > Product Specifications

Physical Specification	Product (W x D x H)	mm	441.6 x 550 x 88
		inch	17.4 x 21.7 x 3.5
	Net Weight	Triple display	25.7 kg / 56.5 lb
		Dual display	21 kg / 46.2 lb

* All dimensions stated are subject to change if options are selected / integrated to base model part codes

Applicable Format	DVI-D / VGA Input	PC Signal	1920 x 1080 x 60Hz
			1680 x 1050 x 60Hz
			1440 x 900 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60Hz
			1280 x 768 x 60Hz
			1280 x 720 x 60Hz
			1152 x 864 x 60Hz
			1024 x 768 x 60Hz
			800 x 600 x 60Hz
			640 x 480 x 60Hz
		Audio Signal	2ch Linear PCM
	HDMI Input	PC Signal	Same as VGA
		HDMI 1.4	1920 x 1080 x 50 / 60Hz (1080p)
			1920 x 1080 x 25 / 30Hz (1080i)
			1280 x 720 x 50 / 60Hz (720p)
			720 x 480 x 50 / 60Hz (576p / 480p)
		Audio Signal	2ch Linear PCM
	Display port Input	PC Signal	1920 x 1080 x 60Hz
			1680 x 1050 x 60Hz
			1440 x 900 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60Hz
			1280 x 768 x 60Hz
			1280 x 720 x 60Hz
			1152 x 864 x 60Hz
			1024 x 768 x 60Hz
			800 x 600 x 60Hz
			640 x 480 x 60Hz
		Audio Signal	2ch Linear PCM

< 2.1 > Product Specifications

LCD Panel		**LCD2U17-3X**	**LCD2U19-3T**
	Native Resolution	1920 x 1200	1280 x 1024
	Panel Size (diagonal)	16.2"	19"
	Standard Brightness (cd/m²)	300	250
	High Brightness (cd/m²) - Option	/	1000 (for LCD2U19-3T-03)
	Contrast Ratio (typ.)	600:1	1000:1
	Colors	16.7 M, 8-bit	16.7 M
	Viewing Angle (L/R/U/D)	89/89/89/89	85/85/80/80
	Response Time (ms)	30	5
	Dot pitch (mm)	0.191	0.294
	Display Area (mm)	383.8H x 214.9V	337.92H x 270.33V
	Surface treatment	Anti-glare, Hard-coating	Haze 25%, Hard-coating
	Surface hardness	3H	3H
	Backlight Type	LED	LED
	MTBF (hrs)	20,000	30,000

Video			
	Package	DVI-D + VGA	DVI-D + VGA
	Option	HDMI 1.4 / HDCP 1.4	HDMI 1.4 / HDCP 1.4

Power				
	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz	
	Power Consumption	Screen ON	Max. 25W	Max. 22W (35W for -03)
		Power saving mode	Max. 2W	Max. 4W
		Power button OFF	Max. 1W	Max. 1W

Compliance		
	EMC	FCC & CE
	Safety	CE / LVD & UKCA
	Environmental	RoHS3 & REACH / WEEE

Environmental Conditions			
	Operating	Temperature	0 to 55°C degree
		Humidity	10~90%, 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	10~300Hz 0.5G RMS random

< 2.1 > Product Specifcations

Physical Specification	Product (W x D x H)	LCD2U17-3X-02	mm	441.6 x 550 x 88
			inch	17.4 x 21.7 x 3.5
		LCD2U19-3T-02	mm	441.6 x 600 x 88
			inch	17.4 x 23.6 x 7.8
	Net Weight	LCD2U17-	Triple display	25.7 kg / 56.5 lb
			Dual display	21 kg / 46.2 lb
		LCD2U19-	Triple display	26.7 kg / 58.7 lb
			Dual display	22 kg / 48.4 lb

* All dimensions stated are subject to change if options are selected / integrated to base model part codes

Applicable Format	DVI-D / VGA Input	PC Signal	1920 x 1200 x 60Hz (2X /3X only)
			1400 x 1050 x 60Hz (2X / 3X only)
			1440 x 900 x 60Hz (2X / 3X only)
			1360 x 768 x 60Hz (2X / 3X only)
			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
		Audio Signal	2ch Linear PCM
	HDMI Input	PC Signal	Same as VGA
		HDMI 1.2 / 1.4	1920 x 1080 x 50 / 60Hz (1080p) (2X / 3X only)
			1920 x 1080 x 25 / 30Hz (1080i) (2X / 3X only)
			1280 x 720 x 50 / 60Hz (720p)
			720 x 480 x 50 / 60Hz (576p / 480p)
		Audio Signal	2ch Linear PCM

< 2.2 > Standard Keyboard / Mouse Specifications

N keyboard integrated with touchpad
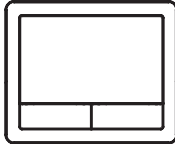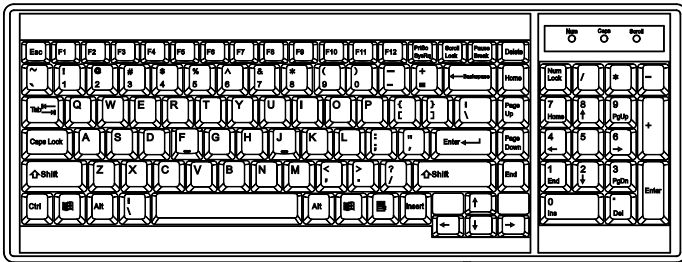
B keyboard integrated with trackball
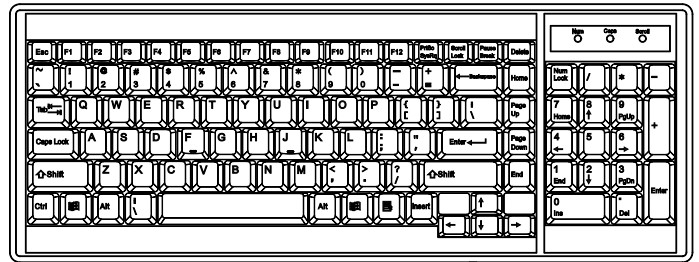
Key force	55 ± 5g
Travelling distance	3 ± 0.3mm
Switch life	> 10 million life cycle time
OS support	Windows / Linux / Unix / Mac OS

Supporting layouts

America	United States					
EMEA	United Kingdom	Germany	France	Russia	Spain	Italy
Asia	Japan	Korea				

< 2.2 > MAC Keyboard / Mouse Options

Mn MAC keyboard integrated with touchpad
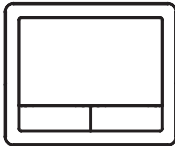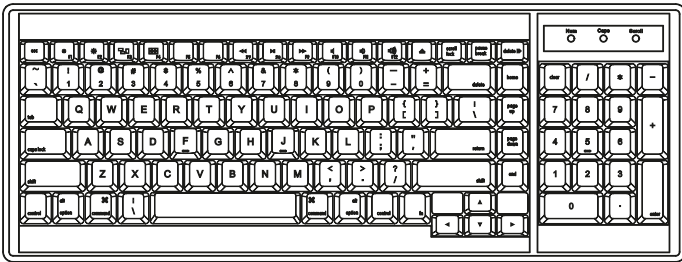
Mb MAC keyboard integrated with trackball
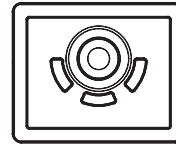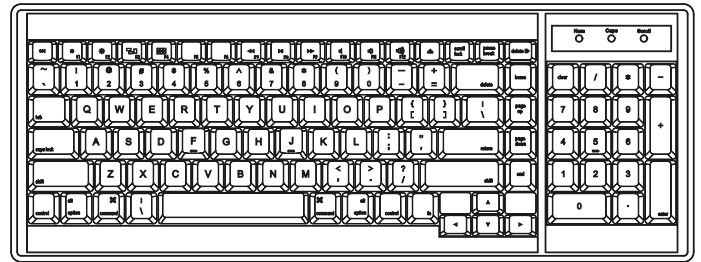
Supporting layouts

America

United States

How to Use "MAC" Keyboard

Keyboard Features
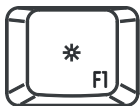
|	
F1 Decrease display brightness	**F9** Fast-forward
F2 Increase display brightness	**F10** Mute sound
F3 Mission control * Only works with OS X Lion default Keyboard Shortcuts.	**F11** Decrease volume
F4 Dashboard	**F12** Increase volume
F7 Rewind	**Eject disc**
F8 Play / Pause	**Command**
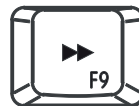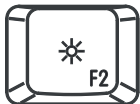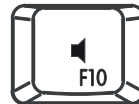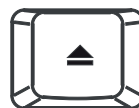
< 2.2 > SUN Keyboard / Mouse Options

**Sn** SUN keyboard integrated with touchpad
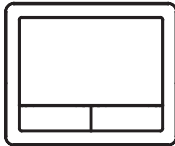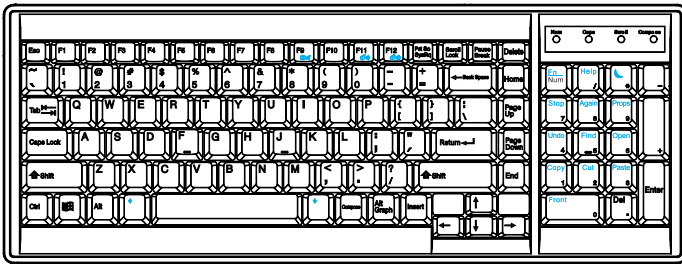
Sb SUN keyboard integrated with trackball
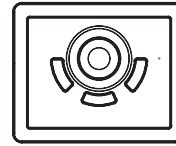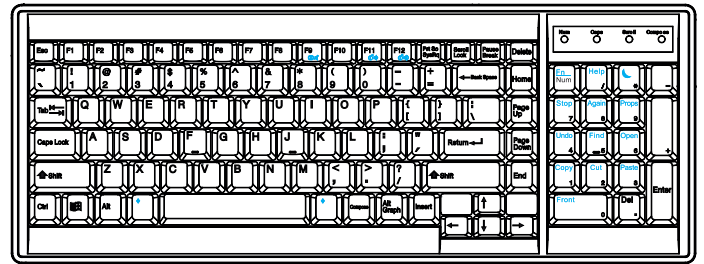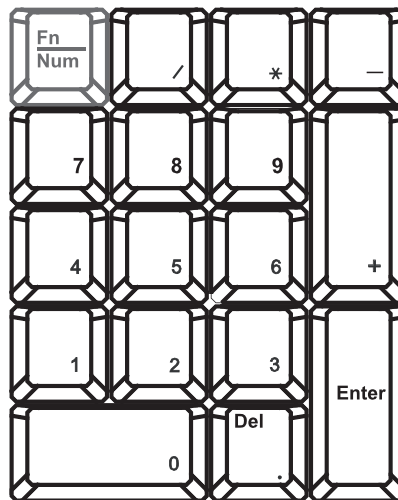
SUN keyboard integrated with touchpad / trackball SOLARIS®

- ■ Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- ■ 104 key notepad keyboard with full numerical pad and SUN function
- ■ USB interface
- ■ US layout only

How to Use "SUN" Keyboard

Fn/Num	Help	🌙	
Stop	Again	Props	
Undo	Find	Open	
Copy	Cut	Paste	
Front			
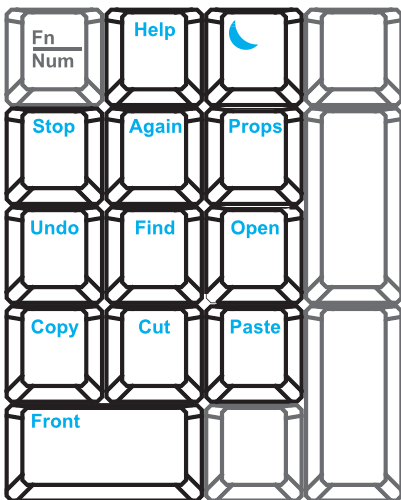
Num LED in Off mode

Key pad behaves as a SUN Solar system administration command mode

Fn/Num	/	*	–
7	8	9	
4	5	6	+
1	2	3	Enter
0	.	Del	

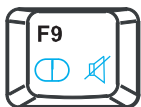**Num LED in Green mode**
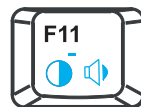
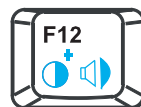Key pad behaves as a normal key pad mode

Audio / Display Keys   * Please ask your supplier for full details

F9
Audio : Mute
Display : Degauss

**F11**
Audio : Decrease volume
Display : Decrease contrast

F12
Audio : Increase volume
Display : Increase contrast

< 2.3 > On-screen Display Operation (OSD)

○ Power light
● Green = On
● Orange = Power saving

Membrane Switch	Function
⊖	Power on / off LCD
M	Display the OSD menu
⇧ ⇩ ⇦ ⇨	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button ⇧ for 5 seconds)
↰	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)

Select another video input (only available for models with multiple video input) :

(a) Press the button ↰ to call up the on-screen video mode on top right corner.

(b) Use up/down arrow ⇧ ⇩ to the select the video input

(c) Press the button M to confirm the selection

< 2.3 > On-screen Display Operation (OSD)

① Picture

Brightness : Adjust the screen brightness

Contrast : Adjust the difference between the image background (black level) and the foreground (white level)

Black level : Adjust background black level of the screen

Eco : Screen in power saving mode

```
                    PICTURE
                              DP 3840x2160@60.0Hz
  BRIGHTNESS              ━━━━━━━       70 >
  CONTRAST                ━━━━━━        50 >
  BLACK LEVEL             ━━━━━━        50 >
  ECO                              STANDARD >


  ▲/▼: UP / DOWN       ◄/►: − / +       MENU : EXIT
                                        M91KW430STD701LG
```
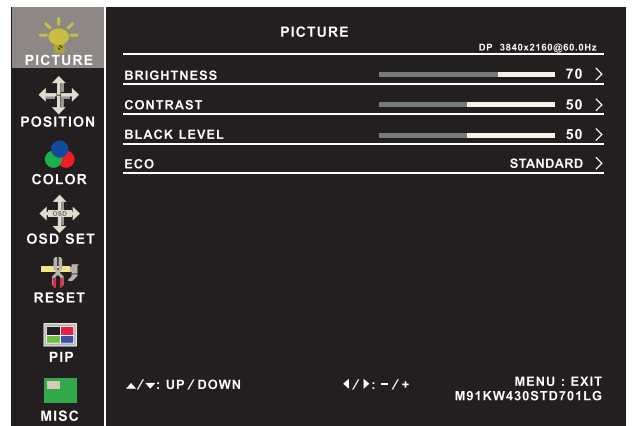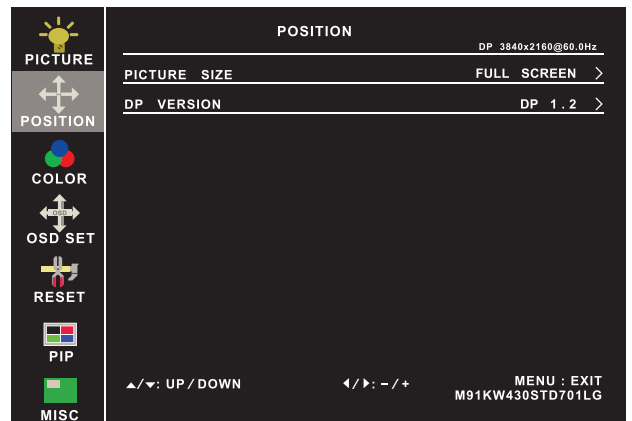
② Position

Picture size : Adjust the image size
- Full Screen / 4:3 / 5:4 / Pixel to Pixel

DP version : Select the DP version

```
                   POSITION
                              DP 3840x2160@60.0Hz
  PICTURE  SIZE              FULL  SCREEN  >
  DP  VERSION                   DP  1 . 2  >


  ▲/▼: UP / DOWN       ◄/►: − / +       MENU : EXIT
                                        M91KW430STD701LG
```
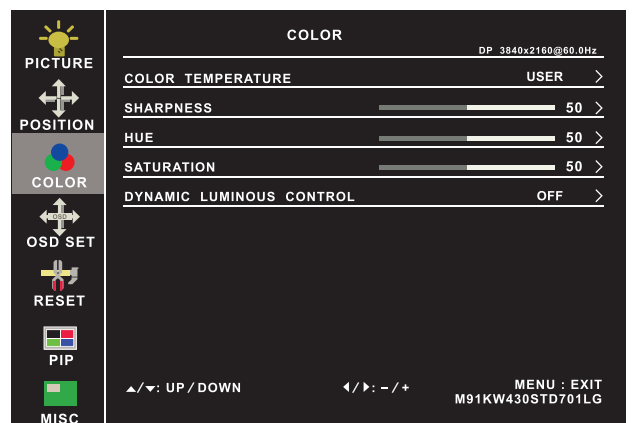
③ Color

Color temperature : User / Warm / Cool / 5400k mode and Red / Green / Blue color balance

Sharpness : Adjust the image from weak to sharp

Hue : Adjust the screen hue value

Saturation : Adjust the saturation of the image color

Dynamic luminous control : Control the dynamic brightness

```
                    COLOR
                              DP 3840x2160@60.0Hz
  COLOR  TEMPERATURE             USER     >
  SHARPNESS               ━━━━━━        50 >
  HUE                     ━━━━━━        50 >
  SATURATION              ━━━━━━        50 >
  DYNAMIC  LUMINOUS  CONTROL        OFF    >


  ▲/▼: UP / DOWN       ◄/►: − / +       MENU : EXIT
                                        M91KW430STD701LG
```

④ OSD Set

Language : Select the language in which the OSD menu is displayed - English

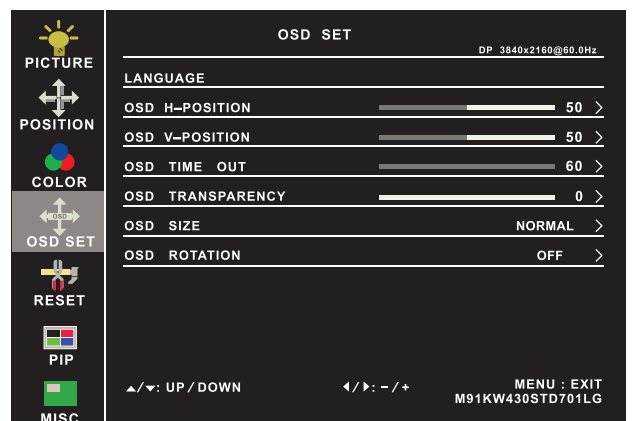OSD H-Position : Align the screen image left or right

OSD V-Position : Align the screen image up or down

OSD time out : Adjust the screen timeout

OSD transparency : Adjust the screen transparency

OSD size : Adjust the screen size - Normal / Small

OSD rotation : Rotate the screen - 90° / 180° / 270°

```
                   OSD SET
                              DP 3840x2160@60.0Hz
  LANGUAGE
  OSD H−POSITION          ━━━━━━        50 >
  OSD V−POSITION          ━━━━━━        50 >
  OSD  TIME  OUT          ━━━━━━        60 >
  OSD  TRANSPARENCY       ━━━━━━         0 >
  OSD  SIZE                       NORMAL   >
  OSD  ROTATION                   OFF      >


  ▲/▼: UP / DOWN       ◄/►: − / +       MENU : EXIT
                                        M91KW430STD701LG
```

< 2.3 > On-screen Display Operation (OSD)

⑤ Reset

Reset : Return the adjustment back to factory setting
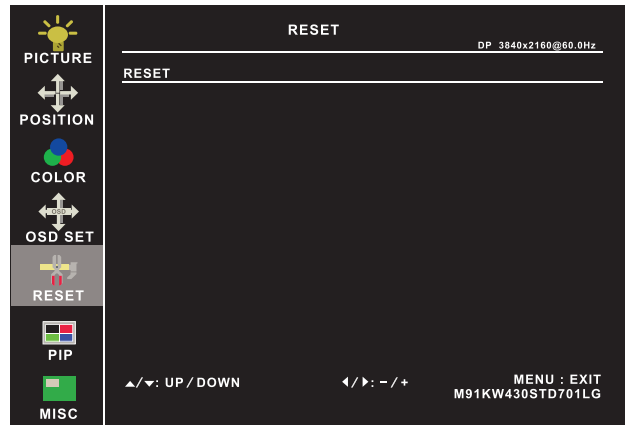
⑥ PIP (Not Applicable to 2H / 3H series)

PIP mode : Enter into PIP / PBP setting - PIP MODE /
PBP 2WIN (Main screen + 1 sub screen) /
PBP 3WIN (Main screen + 2 sub screen) /
PBP 4WIN (Main screen + 3 sub screen)
Select the signal input of each sub screen

PIP size : Adjust the size of the Sub screen
- Small / Medium / Large / Huge

PIP position : Adjust the position of the Sub screen
- Top Left / Top Right / Bottom Left / Bottom Right

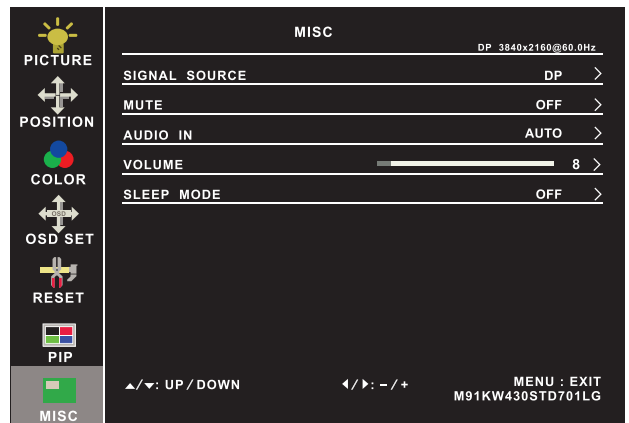Swap : Swap the input signal of PIP / PBP sub screen
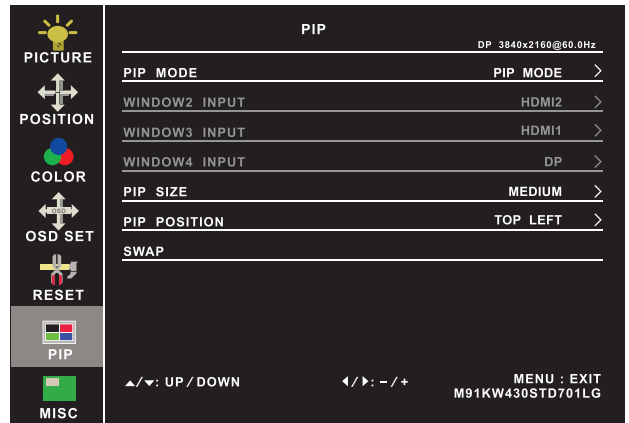
⑦ MISC

Signal source : Select the signal source - DP / HDMI1 / HDMI2

Mute : Turn off the surrounding sound

Audio in : Auto / Line in / DP
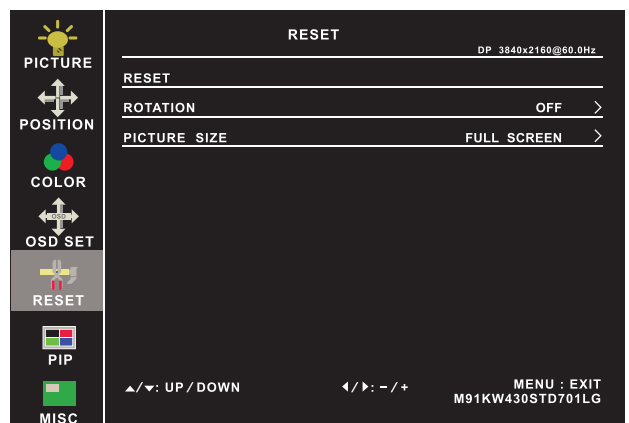
Volume : Adjust the volume of sound

Sleep mode : Set the off time - 10 min / 20 min / 30 min /
50 min / 60 min / 120 min / 240 min

Options on Reset page
(Not Applicable to 2H / 3H Series)

Rotation : Rotate the image in Full screen or 1:1
- 90° / 180° / 270°

Picture size : Adjust the image size in Full screen or 1:1

< Part 3 >

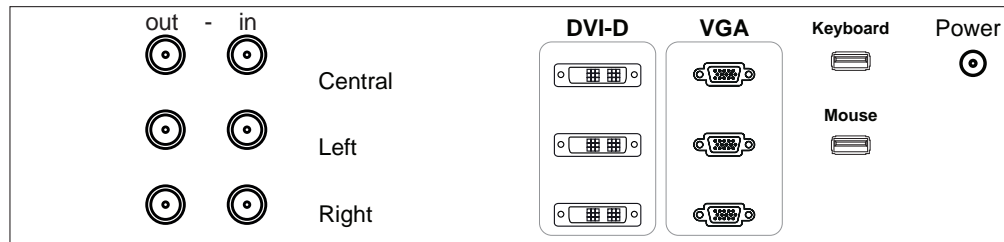## < 3.1 > Options : 3G / HD / SD-SDI input

Our SDI input is an ideal solution for the broadcast-grade video and high resolution CCTV market.

Designed for use with NOVA series displays, a SDI input module can support up to 1080p 60Hz resolution without using additional space or power and it comes standard with a 1-year warranty.

SDI

2K / 3K

out - in		DP	Keyboard	Power
	Central		Mouse	
	Left			
	Right			

2H / 3H / 2X / 3X / 2T / 3T
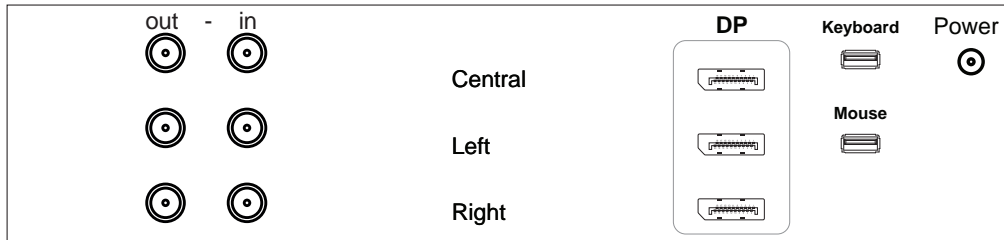
out - in		DVI-D	VGA	Keyboard	Power
	Central			Mouse	
	Left				
	Right				

INPUT	3G-SDI IN	BNC x 1 / 0.8Vp-p (75 ohm)
	3G-SDI OUT	BNC x 1 / Active through, equalized & relocked

Standard Compliance	Video	SMPTE 425M / 274M / 296M / 125M ITU-R BT.656
	Audio	SMPTE 299M / 272M-C

Compatible Video Format	3G-SDI	1080p	@60 / 50Hz, 4:2:2
		1080p	@30 / 25 / 24Hz, 4:4:4
		1080i	@60 / 50Hz, 4:4:4
		720p	@60 / 50Hz, 4:4:4
	HD-SDI	1080p	@30 / 25 / 24Hz, 4:2:2
		1080i	@60 / 50Hz, 4:2:2
		720p	@60 / 50Hz, 4:2:2
	SD-SDI	480i	@60Hz, 4:2:2
	ITU-R BT.656	576i	@50Hz, 4:2:2

Compatible Audio Format	3G-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
	HD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
	SD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized / Asynchronized Video

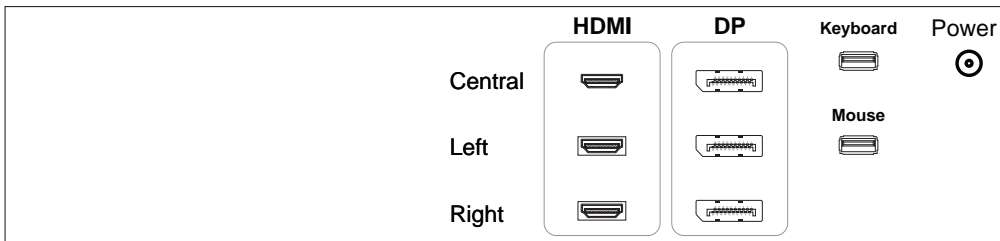| Max. Transmission Distance 75 ohm coaxial cable	3G-SDI	150m at 2.97Gb/s
	HD-SDI	250m at 1.485Gb/s
	SD-SDI	480m at 270Mb/s

< 3.2 > Options :

LCD2U17-2K / 3K **: HDMI 2.0** (HDCP 2.2)
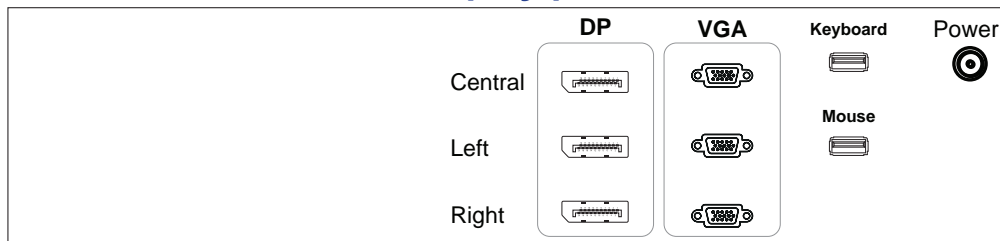**LCD2U17-2H / 3H : HDMI 1.4** (HDCP 1.4)
 DP 1.0 (HDCP 1.3)
LCD2U17-2X / 3X : HDMI 1.4 (HDCP 1.4)
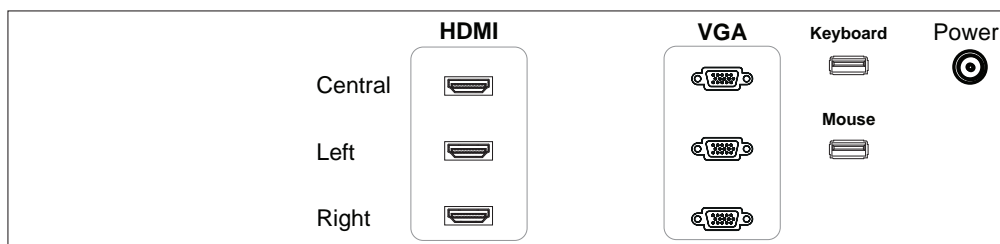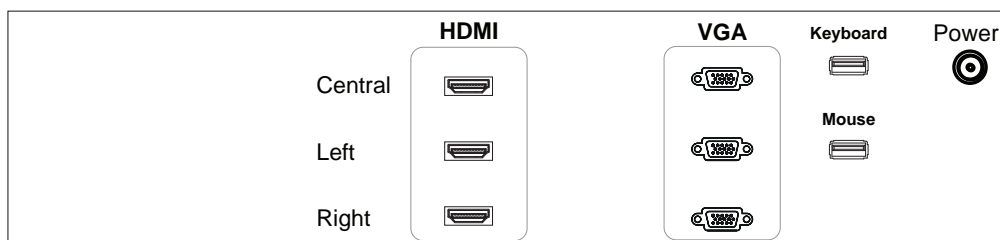**LCD2U19-2T / 3T : HDMI 1.4** (HDCP 1.4)

LCD2U17-2K / 3K

	HDMI	DP	Keyboard	Power
Central				
			Mouse	
Left				
Right				

LCD2U17-2H / 3H with Display port

	DP	VGA	Keyboard	Power
Central				
			Mouse	
Left				
Right				

LCD2U17-2H / 3H with HDMI

	HDMI	VGA	Keyboard	Power
Central				
			Mouse	
Left				
Right				

LCD2U17-2X / 3X & LCD2U19-2T / 3T

	HDMI	VGA	Keyboard	Power
Central				
			Mouse	
Left				
Right				

www.RackmountMart.com

< 3.3 > Options : Touchscreen & driver

Capacitive Touch screen Specification

	LCD2U17-2K / 3K	LCD2U17-2H / 3H	LCD2U17-2X / 3X	LCD2U19-2T / 3T
Model	**TPC** Multi-touch			**TCB** Capacitive
Technology	Projected Capacitive			Capacitive
Touch Point	10			Single
Input Type	Finger or Capacitive Stylus			Finger
Resolution	4096 x 4096			2048 x 2048
Touch Point Accuracy	± 2 mm			-
Response Speed	< 5 ms			20 ms
Activation Force	< 5 g			≤ 50 g
Surface Hardness	6H			9H
Light Transmission	> 85%			92% ± 2%
Haze	3% ↓			7%
Durability	50 million touches			300 million touches
Top Layer	1.8 mm Glass			Glass
Bottom Layer	0.7 mm Sensor Glass			
Thickness	2.7 ± 0.1 mm			2.8 mm ± 10%
Connector	USB			USB Type A
Compatibility	Linux / Android / Windows / Mac			

Resistive Touch screen Specification

	LCD2U17-2K / 3K	LCD2U17-2H / 3H	LCD2U17-2X / 3X	LCD2U19-2T / 3T
Model	**TRB** Resistive			
Technology	5-Wire Resistive			
Touch Point	Single			
Input Type	Finger or Stylus			
Resolution	2048 x 2048			
Response Speed	15 ms			
Activation Force	≤ 50 g			
Surface Hardness	3H			
Light Transmission	80% ± 3%			
Haze	8% ± 3%			
Durability	10 million touches			
Top Layer	ITO Film			
Bottom Layer	ITO Glass			
Thickness	3.2 ± 0.2 mm	2.2 ± 0.2 mm	3.2 ± 0.2 mm	2.2 ± 0.2 mm
Connector	USB Type A			
Compatibility	Windows 7 / XP / Vista, Linux			

■ USB touchscreen package includes 1 x 6ft USB cable, quick reference guideline and CD disc
■ For detailed information, please refer to the attached CD disc
■ As the touchscreen unit is not made of toughened glass, please handle it carefully

TPC Driver

⚠ Connect the USB cable from the USB port on the LCD to a computer. The touch screen supports easy Plug-and-Play operations. There is no need to install additional drivers on the computer.

TRB / TCB Driver

Please follow the below steps to setup the touch screen:-

Step 1. Run the bundled CD disc or download the driver from the link below :
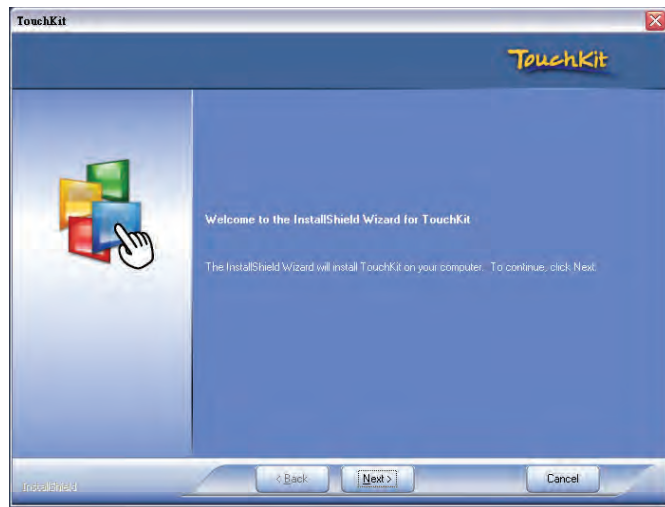https://www.rackmountmart.com/downloads.html

Step 2. Double click the Setup.exe

Step 3. Follow the installation instruction to finish the setup
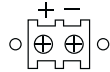
Step 4. After installation, run the TouchKit program & the "4 point calibration"

⚠ Please do the initial calibration after the first setup
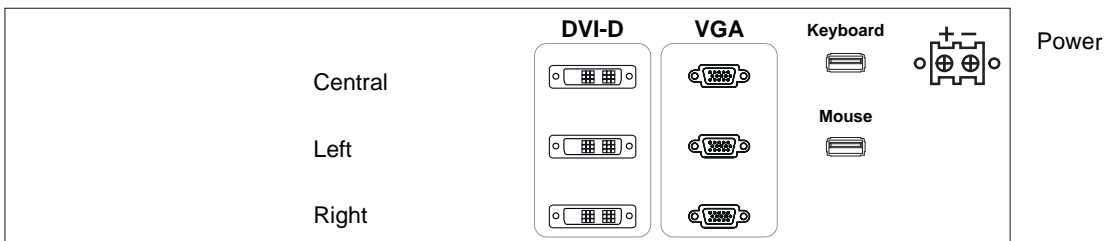
< 3.4 > Options : DC Power

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

DC power

2K / 3K

	DP	Keyboard	Power
Central			
Left		Mouse	
Right			

2H / 3H / 2X / 3X / 2T / 3T
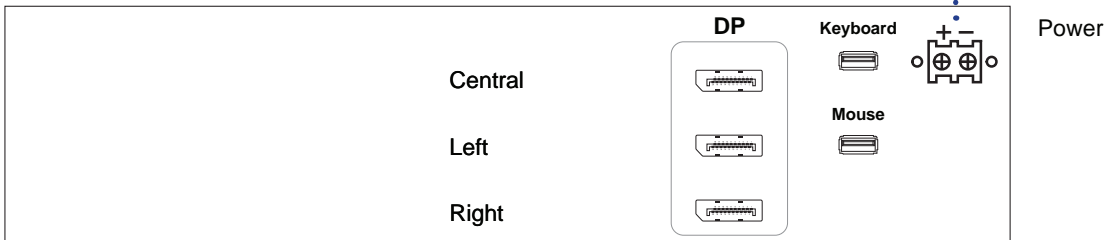
	DVI-D	VGA	Keyboard	Power
Central				
Left			Mouse	
Right				

*** **For DC power option :**

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

(2) **DC option excludes AC power adapter and power cord.**