

INSTALLATION AND MAINTENANCE GUIDE



1U Ultra short depth LCD Console Drawer

**Ultra short depth
400mm / 15.7"**

Options :

- SDI
- HDMI
- DC power



Item Number 60118-599

Legal Information

First English printing, March 2019

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

Safety Instructions

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

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
 - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - Repair or attempted repair by anyone not authorized by us.
 - Any damage of the product due to shipment.
 - Removal or installation of the product.
 - Causes external to the product, such as electric power fluctuation or failure.
 - Use of supplies or parts not meeting our specifications.
 - Normal wear and tear.
 - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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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.

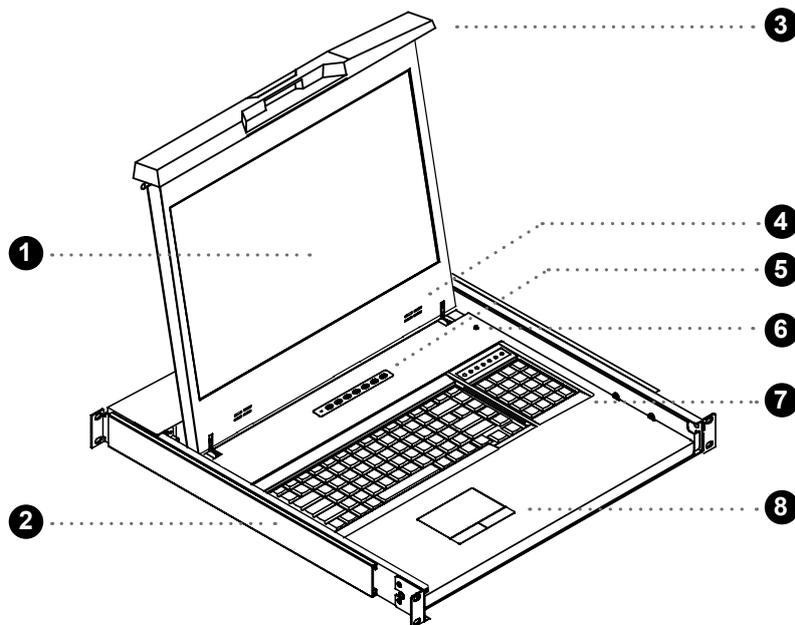
3. Gently wipe the surface. Use as little pressure as possible.
4. Wait until your monitor is completely dry before plugging it in and powering it up.

Package Content



- CX-6 6ft DVI-D console cable X 1
(Alternative : CB-6 6ft VGA console cable)
- 2.5A Power adapter & Power cord X 1
- M6 screw, cage nut & cup washer X 8

Structure Diagram



- | | |
|--------------------------------------------|------------------------------------------|
| ① LCD interchangeable module kit | ⑤ LCD membrane |
| ② Installation Slides | ⑥ Micro switch for screen auto power off |
| ③ Molded front handle | ⑦ Keyboard interchangeable module kit |
| ④ Audio speaker (for SDI or HDMI option) | ⑧ Mouse interchangeable module kit |



The above package content is only for the single console models.
It varies with options such as KVM, SDI, HDMI, Touchscreen & DC power.

Dimension

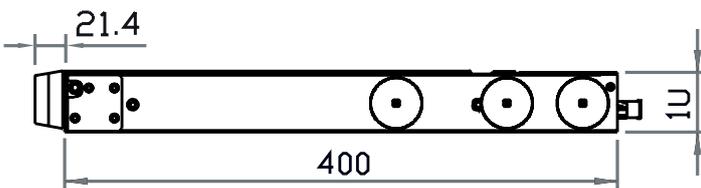
Front View



Rear View

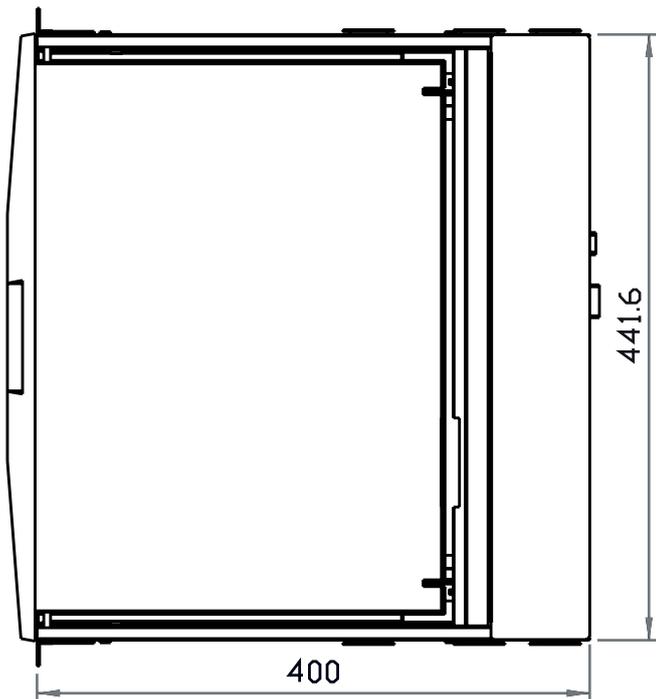


Side View



UNIT : mm
1mm = 0.03937 inch

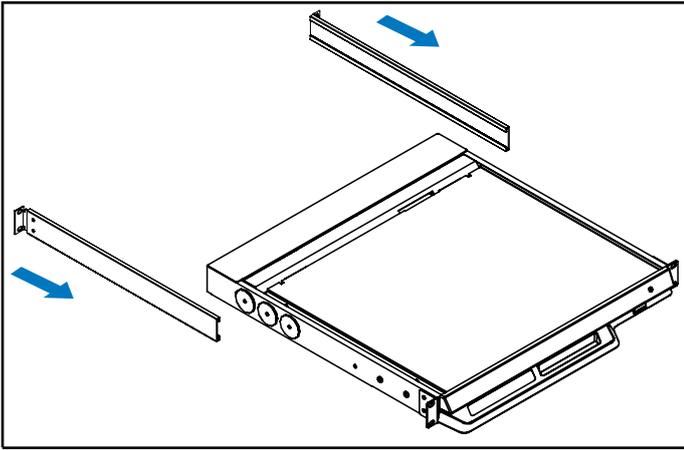
Top View



| Model | Product Dimension (W x D x H) | Packing Dimension (W x D x H) | Net Weight | Gross Weight |
|----------------------------------|--------------------------------------------|------------------------------------------|-------------------|--------------------|
| 60118583 60118584 60118585 | 441.6 x 400 x 44 mm 17.4 x 15.7 x 1.73" | 590 x 622 x 140 mm 23.2 x 24.5 x 5.5" | 8.6 kg 18.9 lb | 13.6 kg 29.9 lb |

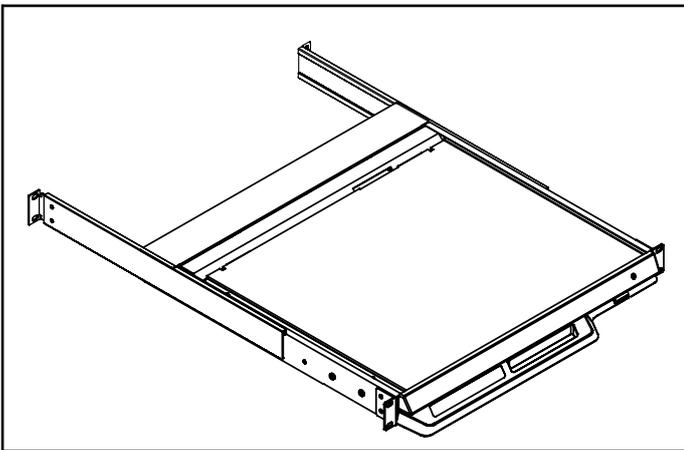
! The weight is only for the single console models. It varies with accessories & options such as KVM, SDI, HDMI & DC power.

Installation - Installation Slides



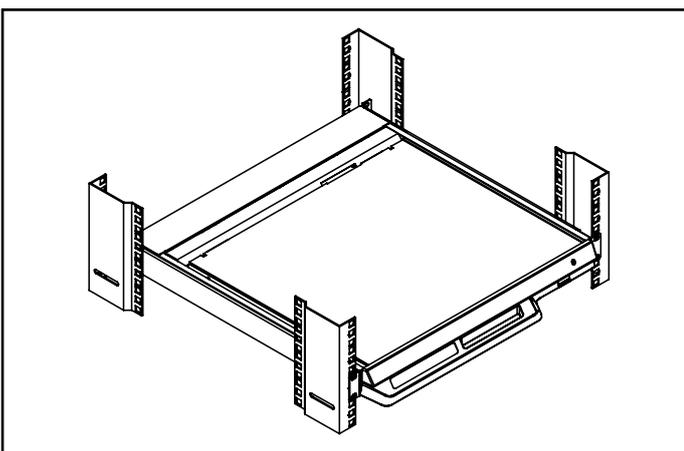
Step 1

- Insert the left and right rear mounting brackets 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.

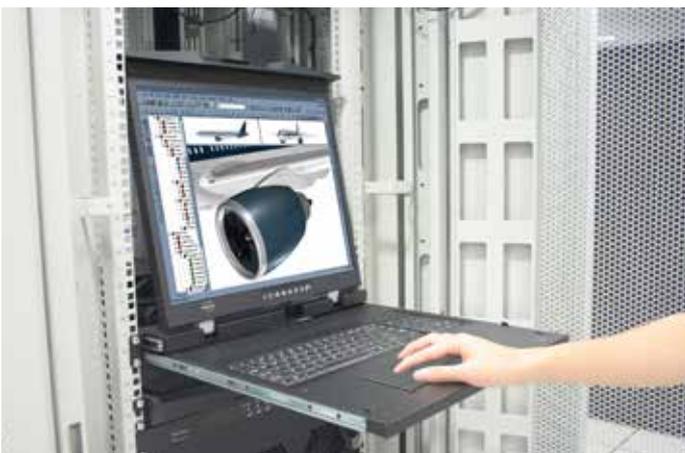
Installation - How to use the drawer



- **Press the handle button and gently slide out the drawer.**

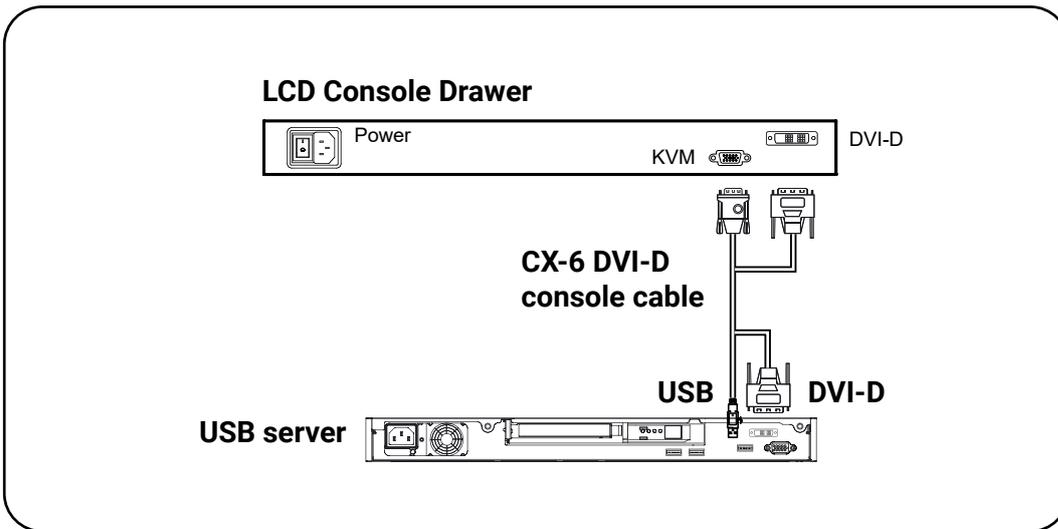


- **Flip up the LCD to a suitable angle.**



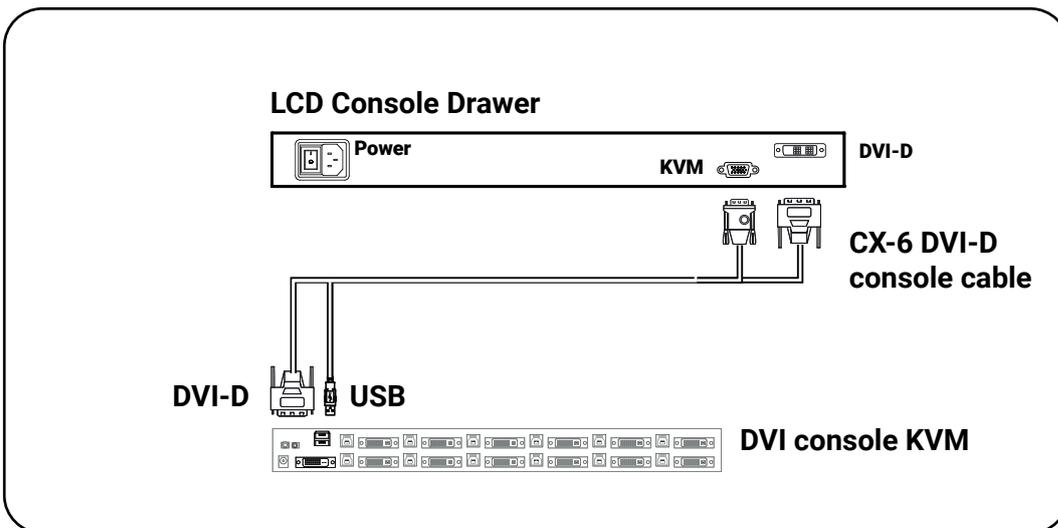
- **Operate the LCD console drawer.**

Connection to USB Server via CX-6 cable



***Monitor keyboard screen in external power**

Connection to external KVM via CX-6 cable

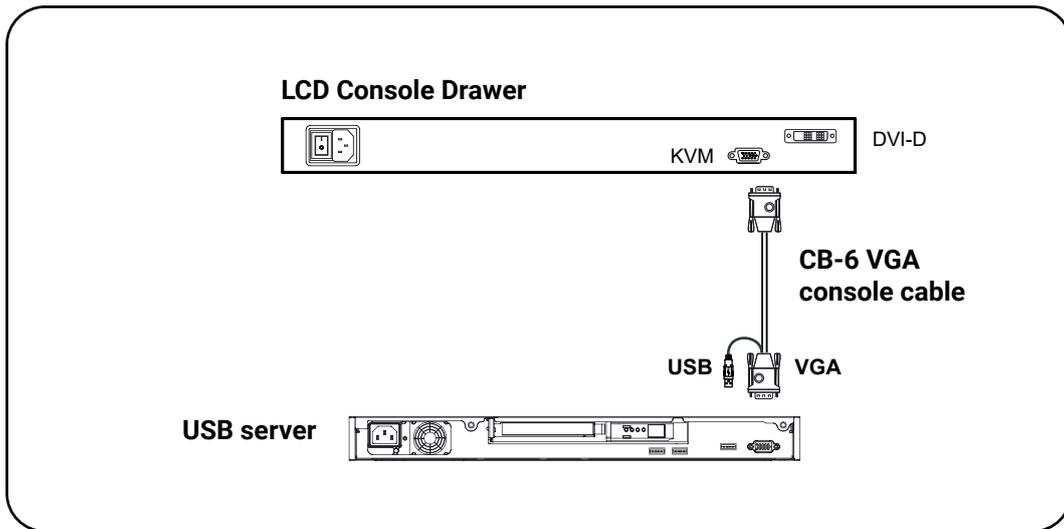


***Monitor keyboard screen in external power**



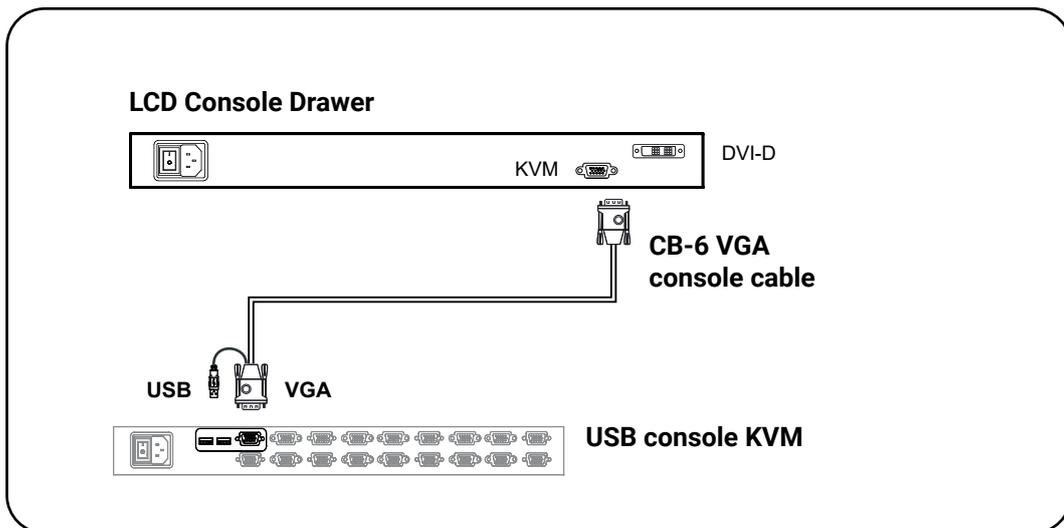
Caution : The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting 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.

Connection to USB Server via CB-6 cable



***Monitor keyboard screen in external power**

Connection to external KVM via CB-6 cable



***Monitor keyboard screen in external power**



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.

Product Specifications

| | | |
|------------------|----------------------------------|------------------------------|
| LCD Panel | | 60118583, 60118584, 60118585 |
| | Native Resolution | 1920 x 1080 |
| | Panel Size (diagonal) | 17.3" |
| | Brightness (cd/m ²) | 400 |
| | Contrast Ratio (typ.) | 600:1 |
| | Colors | 16.7 M, 8-bit |
| | Viewing Angle (L/R/U/D) | 80/80/60/80 |
| | Response Time (ms) | 5.5 |
| | 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 | Digital | HDMI | HDMI 1.4 / HDCP 1.4 |
| | | DVI-D | DVI-D, TMDS single link |
| | Analog | VGA | Analog 0.7Vp-p |
| | Plug & Play | DVI / VGA | VESA EDID structure 1.3 |
| | Synchronization | VGA | Separate, Composite & SOG |

| | | | |
|-------------------|----------------------------------------|-------------------|---------------------------------------|
| Power | Power Supply | Range | Auto-sensing 100 to 240VAC, 50 / 60Hz |
| | Power Consumption for Single Console | Screen ON | Max. 25W |
| | | Power saving mode | Max. 4W |
| | | Power button OFF | Max. 1W |
| | Power Consumption with KVM integration | Screen ON | Max. 55W |
| Power saving mode | | Max. 34W | |

***For details, please refer to our KVM rear kit user manuals**

| | | |
|-------------------|-------------|-------------------------|
| Compliance | EMC | FCC & CE certified |
| | Safety | CE / LVD certified |
| | Environment | RoHS2 & REACH compliant |

INSTALLATION AND MAINTENANCE GUIDE

| | | | |
|--------------------------|-------------------------|-------------|----------------------------------|
| 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 | 10~300Hz 0.5G RMS random |

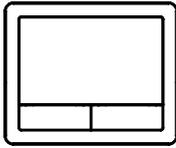
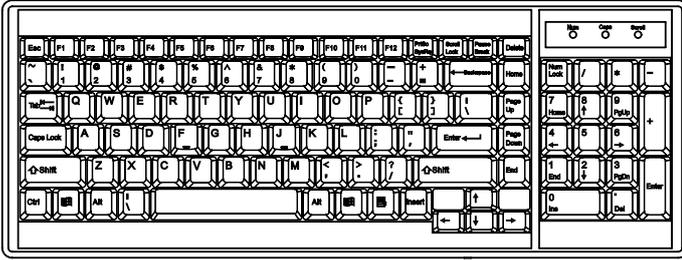
| | | |
|------------------------|-----------------------|------------------------------------------------|
| Physical Specification | | 60118583, 60118584, 60118585 |
| | Product (W x D x H) | 441.6 x 400 x 44 mm 17.4 x 15.7 x 1.73 inch |
| | Packing (W x D x H) | 590 x 622 x 140 mm 23.2 x 24.5 x 5.5 inch |
| | Net Weight | 8.6 kg / 18.9 lb |
| | Gross Weight | 13.6 kg / 29.9 lb |

| | | | |
|-------------------|----------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicable Format | DVI-D / 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 | | |
| | HDMI Input | Audio Signal | 2ch Linear PCM |
| | | 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 |

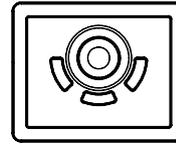
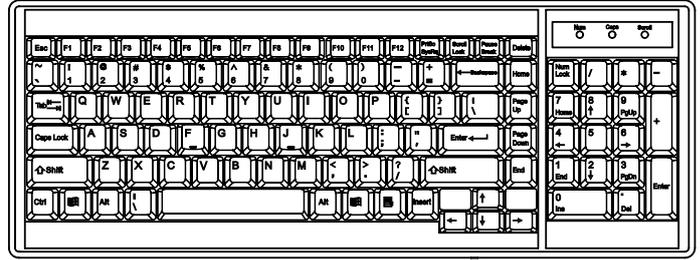
*In some circumstances, if the user connects the LCD to PC via HDMI port or video and audio signals, the LCD may display incorrectly on a full screen. If so, please adjust the display card setting on display size to fix the issue.

Standard Keyboard / Mouse Specifications

Ge G keyboard integrated with touchpad



Gb G 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

 United Kingdom  Germany  France  Spain  Norway

EMEA

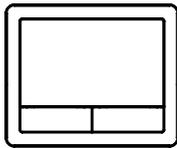
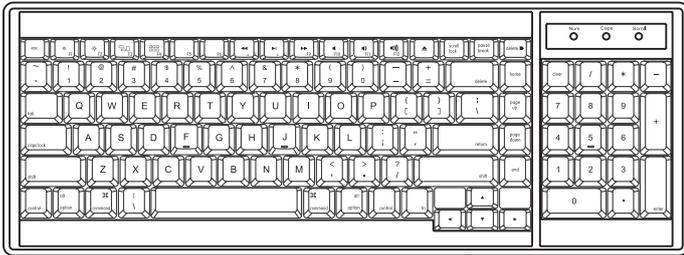
 Italy  Russia  Switzerland  Netherlands  Portugal

Asia  China  Japan  Korea  Arabia  Turkey

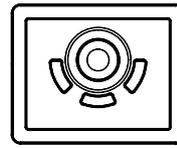
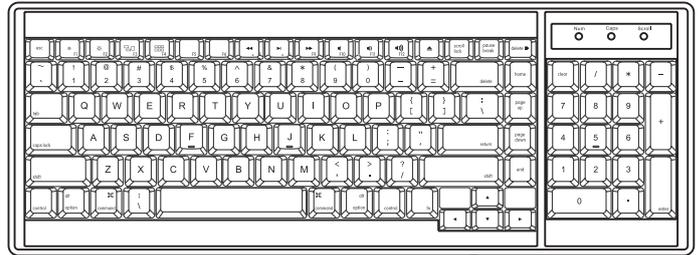
*English, German and French as standard. Other layouts on request.

MAC Keyboard/Mouse Options

Me MAC keyboard integrated with touchpad



Mb MAC keyboard integrated with trackball



Supporting layouts

America



United States

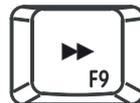
*English, German and French as standard. Other layouts on request.

How to Use "MAC" Keyboard

Keyboard Features



F1
Decrease display brightness



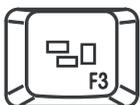
F9
Fast-forward



F2
Increase display brightness



F10
Mute sound



F3
Mission control
* Only works with OS X Lion
default Keyboard Shortcuts.



F11
Decrease volume



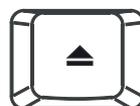
F4
Dashboard



F12
Increase volume



F7
Rewind



Eject disc



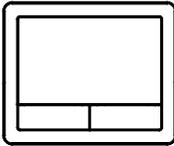
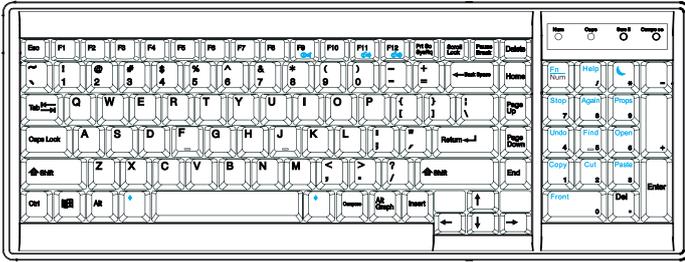
F8
Play / Pause



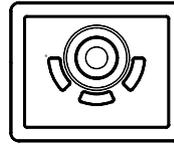
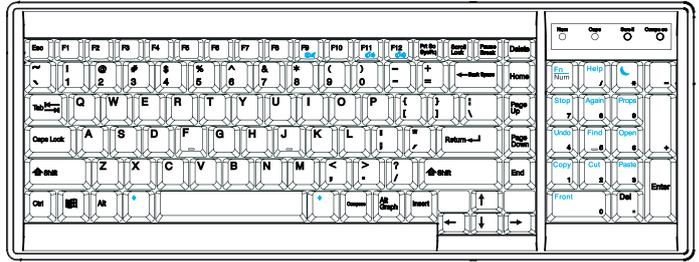
Command

SUN Keyboard/Mouse Options

Se S keyboard integrated with touchpad



Sb S keyboard integrated with trackball

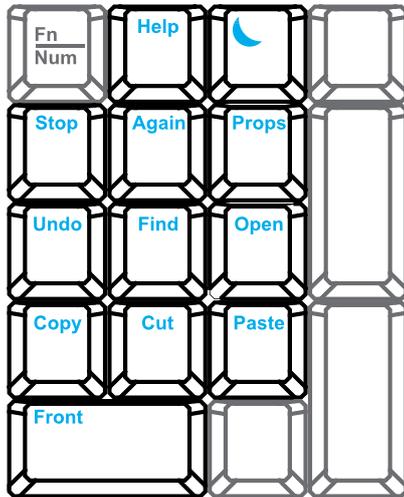


S keyboard integrated with touchpad / trackball

- 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

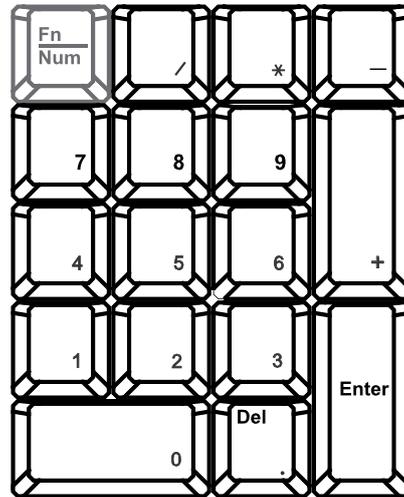


How to Use "S" Keyboard



Num LED in Off mode

Key pad behaves as a SUN Solar system administration command mode

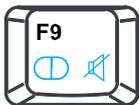


Num LED in Green mode

Key pad behaves as a normal key pad mode

Audio / Display Keys

* Please ask your supplier for full details



F9
Audio : Mute
Display : Degauss



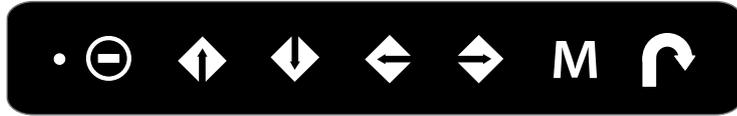
F11
Audio : Decrease volume
Display : Decrease contrast



F12
Audio : Increase volume
Display : Increase contrast

On-screen Display Operation (OSD)

- Power light
- Green = On
- Orange = Power saving

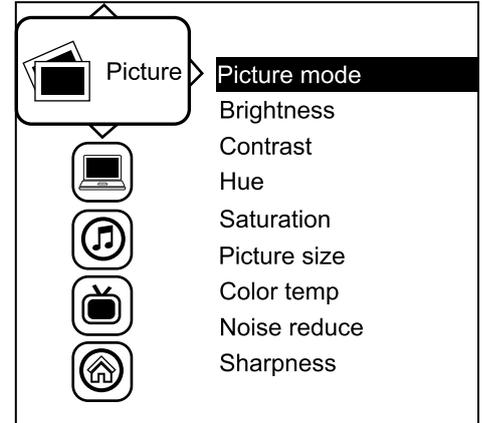


| Membrane Switch | Function |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Power on / off LCD |
|  | 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) |

On-screen Display Operation (OSD)

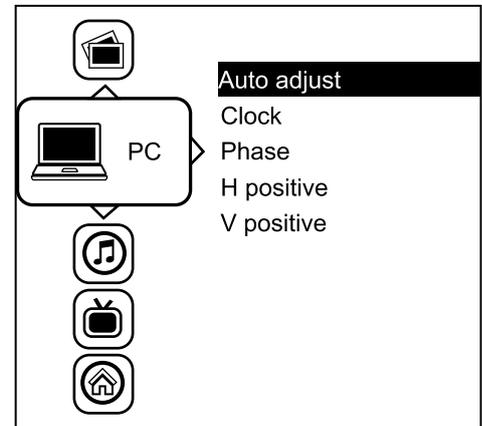
① Picture

| | |
|----------------|---------------------------------------------------------------------------------------------------|
| Picture mode : | Standard / Vivid / Soft / User mode to choose |
| Brightness : | Adjust background black level of the screen image |
| Contrast : | Adjust the difference between the image background (black level) and the foreground (white level) |
| Hue : | Adjust the screen hue value |
| Saturation : | Adjust the saturation of the image color |
| Picture size : | Adjust the image size |
| Color temp : | Standard / Cool / Warm / User to choose |
| Noise reduce : | Reduce the noise of the image |
| Sharpness : | Adjust the image from weak to sharp |



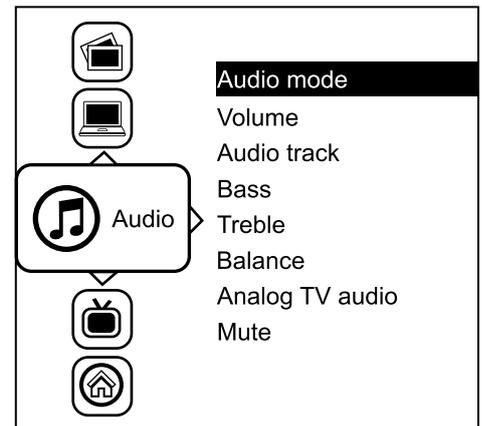
② PC

| | |
|---------------|-----------------------------------------------------------------------------------------------------------|
| Auto adjust : | Automatically adjust sizes, centers and fine tunes the video signal to eliminate waviness and distortion. |
| Clock : | Adjust the clock value |
| Phase : | Adjust the phase value |
| H. Position : | Align the screen image left or right |
| V. Position : | Align the screen image up or down |



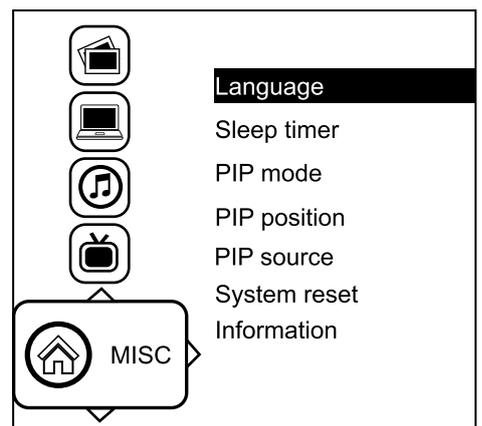
③ Audio

| | |
|-------------------|------------------------------------------------|
| Audio mode : | Movie / Voice / Normal / Music mode to choose |
| Volume : | Adjust the volume of sound |
| Bass : | Set the value of bass sound |
| Treble : | Set the value of treble sound |
| Balance : | Set the balance value of treble and bass sound |
| Analog TV audio : | Set the value of analog TV audio sound |
| Mute : | Turn off the surrounding sound |



④ MISC

| | |
|----------------|------------------------------------------------------------------|
| Language : | Select the language in which the OSD menu is displayed - English |
| Sleep timer : | Set the off time |
| PIP mode : | Adjust picture in picture setting |
| PIP position : | Enter into PIP position |
| PIP source : | Enter into the Sub source and sound source |
| System reset : | Return the adjustment back to factory setting |
| Information : | Select for Help |

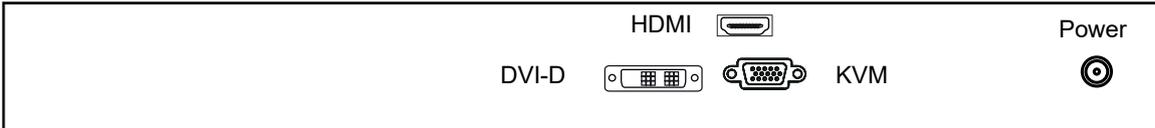


Options:

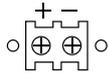
- **HDMI 1.4** (HDCP 1.4)



(1) In some circumstances, if the user connects the LCD to PC via HDMI port for video and audio signals, the LCD may display incorrectly on a full screen. If so, please adjust the display card setting on display size to fix the issue.

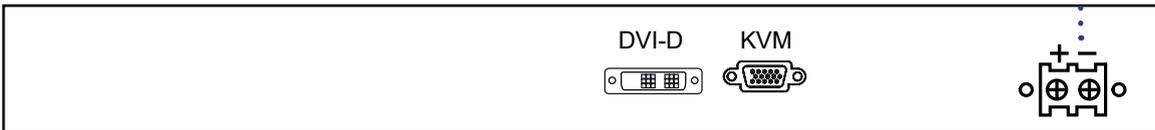


Options : DC Power



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

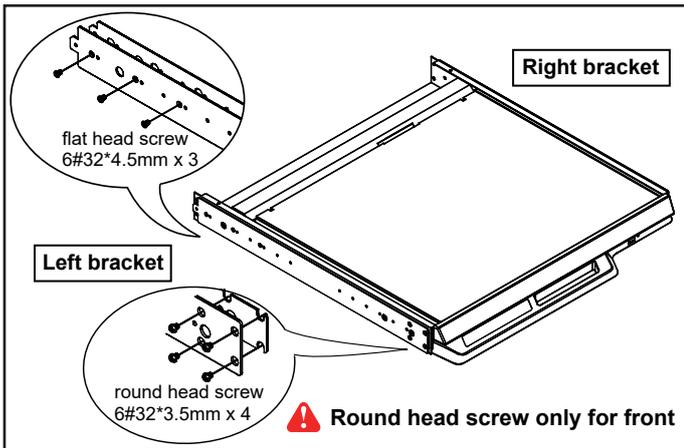
DC power



*** For DC power option :

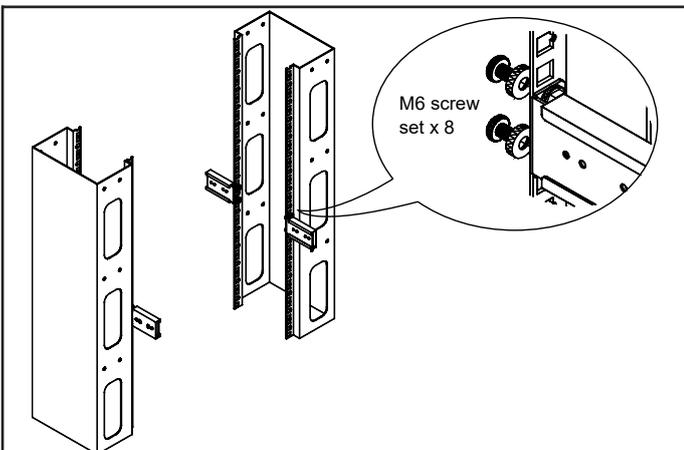
- (1) If the unit with LCD, earthing may be required
- (2) DC option excludes AC power adapter and power cord.
- (3) F1417 chassis extension in depth to 490mm (19.3")

Options: ORB-2.1 - 2-Post Rack Mounting Brackets



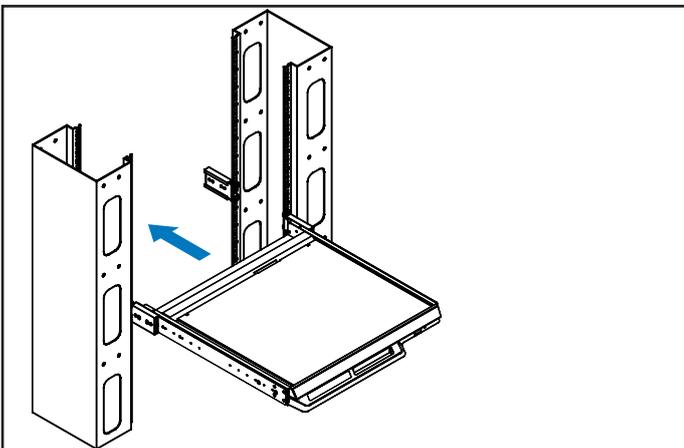
Step 1

- Before apply 2-post rack brackets, please release front mounting ears and rear mounting wheels.
- Attach **left and right mounting brackets** to the drawer with the screws below :
6#32*3.5 mm screw x 4 (only for front)
6#32*4.5 mm screw x 6 (only for rear)



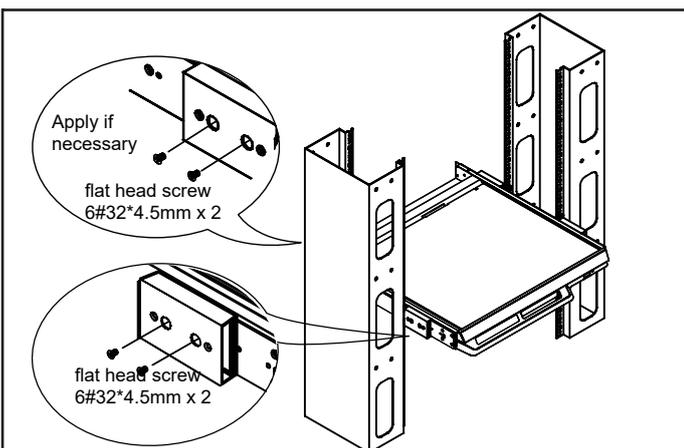
Step 2

- Attach the set of 4 mini brackets to the 2-post rack.
- M6 screw set is not provided.



Step 3

- Insert the drawer into the mini brackets.



Step 4

- Fix the LCD console drawer to the mini brackets with 6#32*4.5 mm screw x 8.
- Installation completed

⚠ This step is necessary for front.
Failure to complete this will cause damage.

Notes



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