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User Manual 19" Widescreen LCD 1440 x 900 (1152 x 900 Native)



www.rackmountmart.com

LCD1U19-13

1U SUN LCD Console Drawer

Options :

- DC power



Legal Information

First English printing, April 2020

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.

< Part 1 >

< 1.1 > Package Content



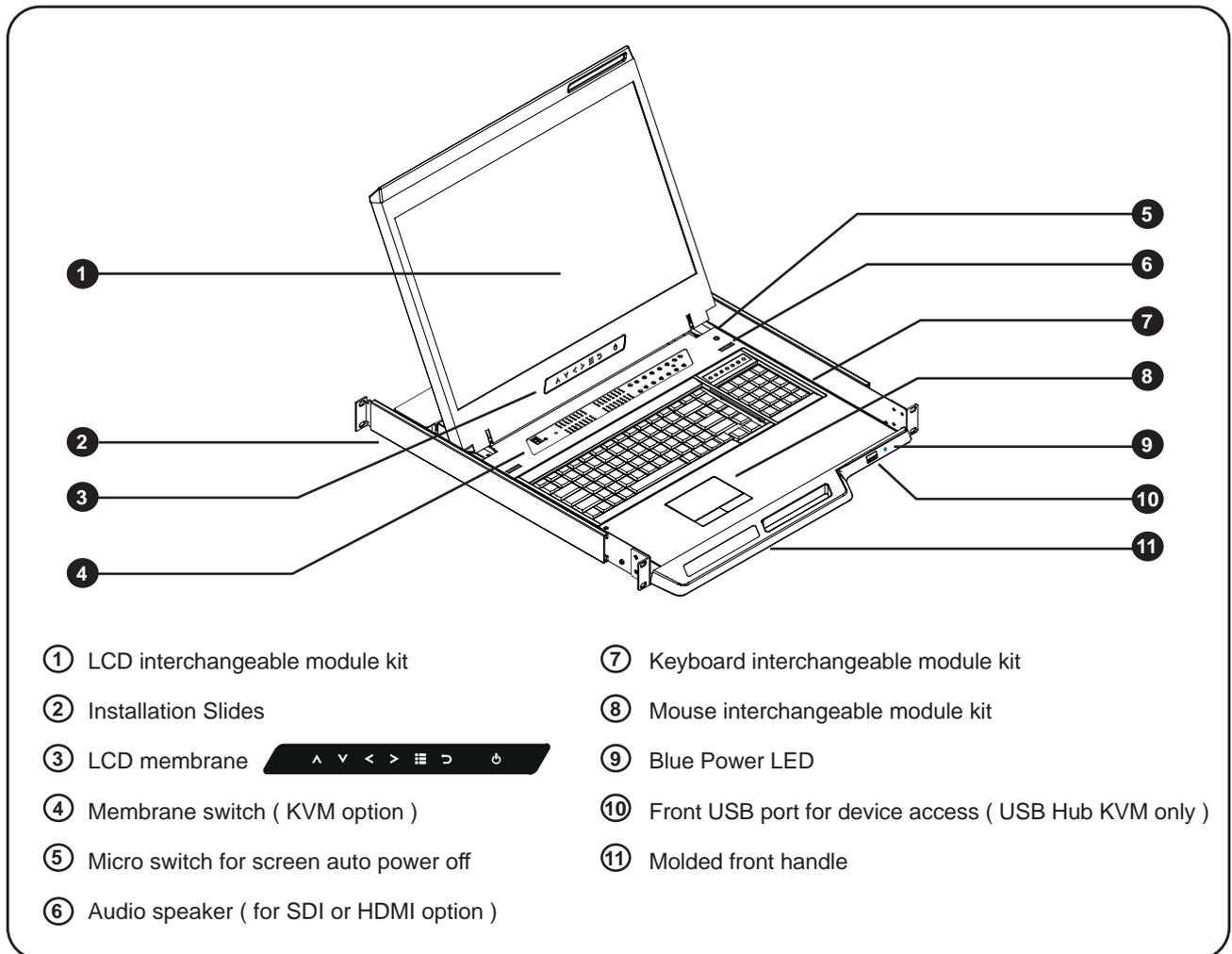
LCD1U19-13 unit X 1

- LCD-A3004A 6ft DVI-D console cable X 1
(Alternative : LCD-A1014A 6ft VGA console cable)
- Power cord X 1
- M6 screw, cage nut & cup washer X 8



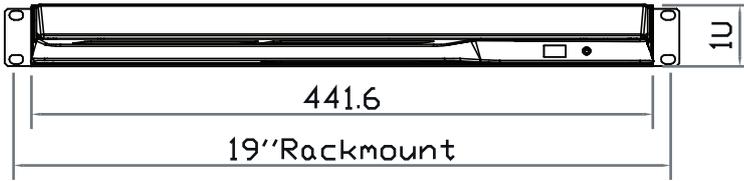
The above package content is only for the single console models.
It varies with options such as KVM, SDI, HDMI, AV & DC power.

< 1.2 > Structure Diagram

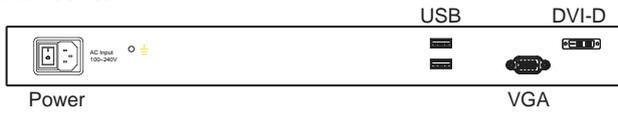


< 1.2 > Dimension

Front View

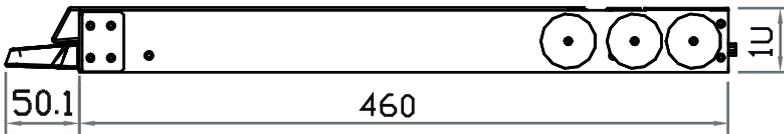


Rear View

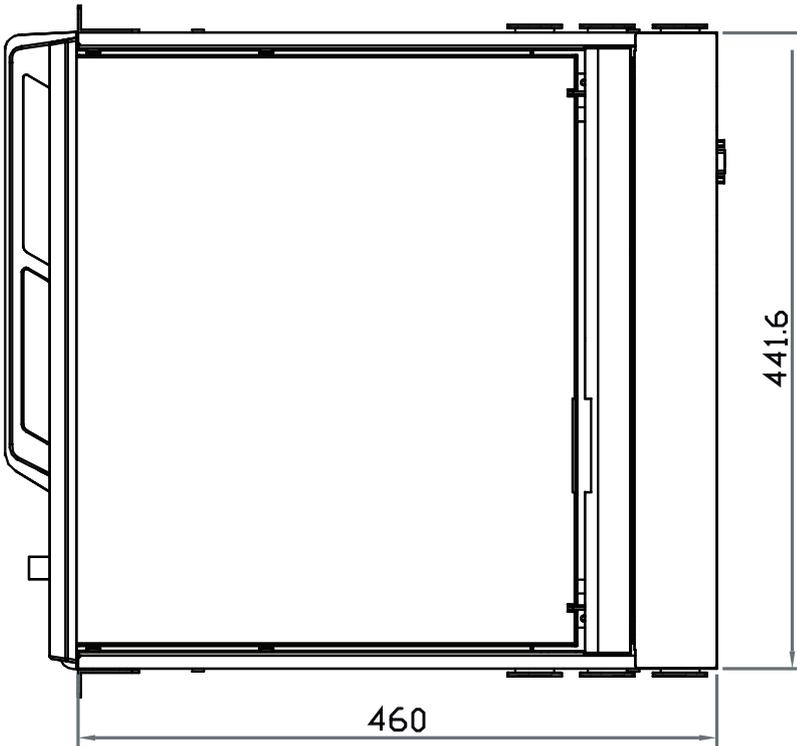


UNIT : mm
1mm = 0.03937 inch

Side View



Top View

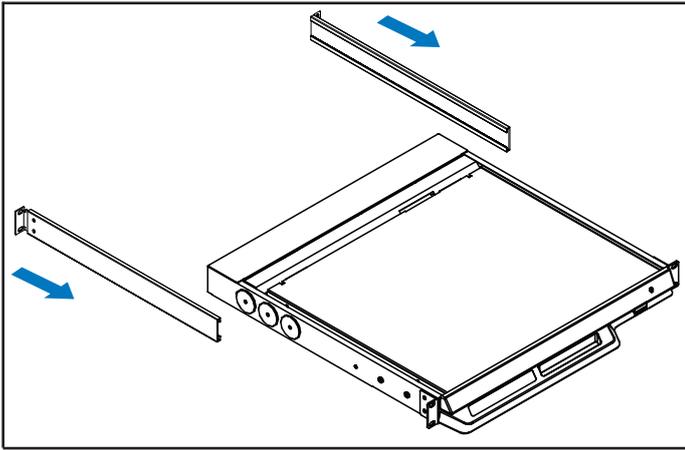


Model	Product Dimension (W x D x H)	Net Weight
LCD1U19-13	441.6 x 460 x 44 mm 17.4 x 18.1 x 1.73 inch	11.5 kg 25.3 lb



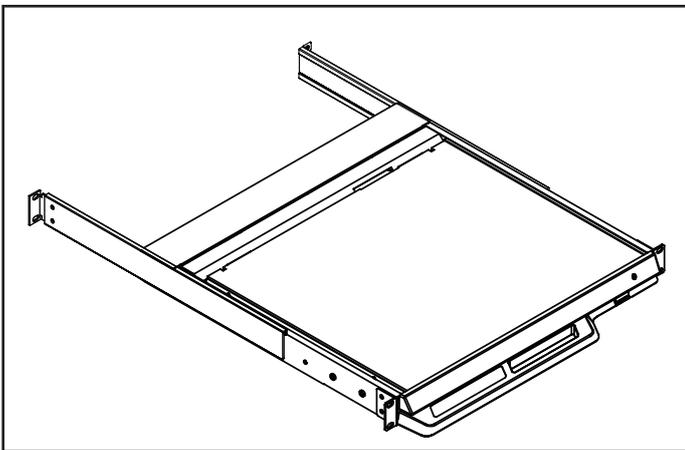
The weight is only for the single console models. It varies with accessories & options such as KVM, SDI, HDMI, AV & DC power.

< 1.3 > Installation - Installation Slides



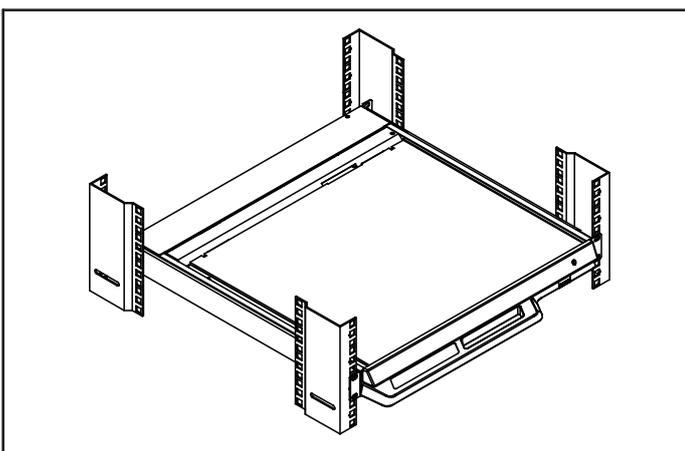
Step 1

- 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 display drawer into the rack.



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

< 1.3 > Installation- How to use the drawer



- Hold the handle and slide out the drawer.

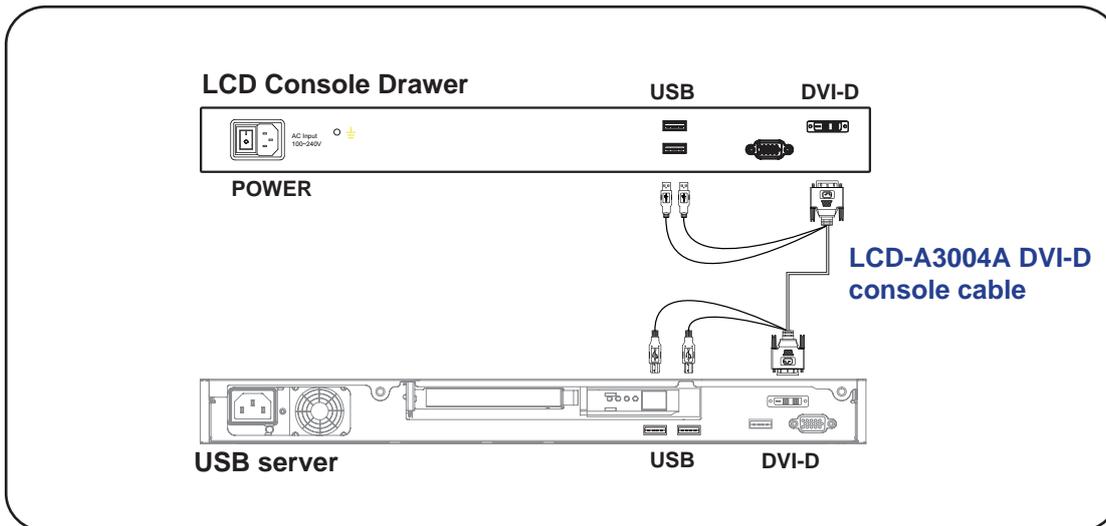


- Flip up the LCD to a suitable angle.

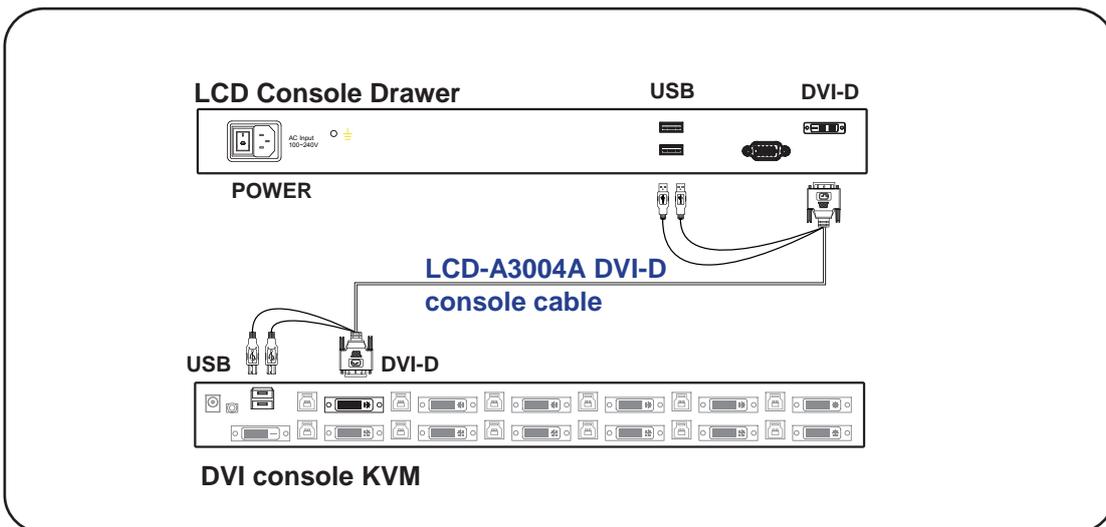


- Operate the LCD console drawer.

< 1.4 > Connection to **USB Server** via LCD-A3004A cable

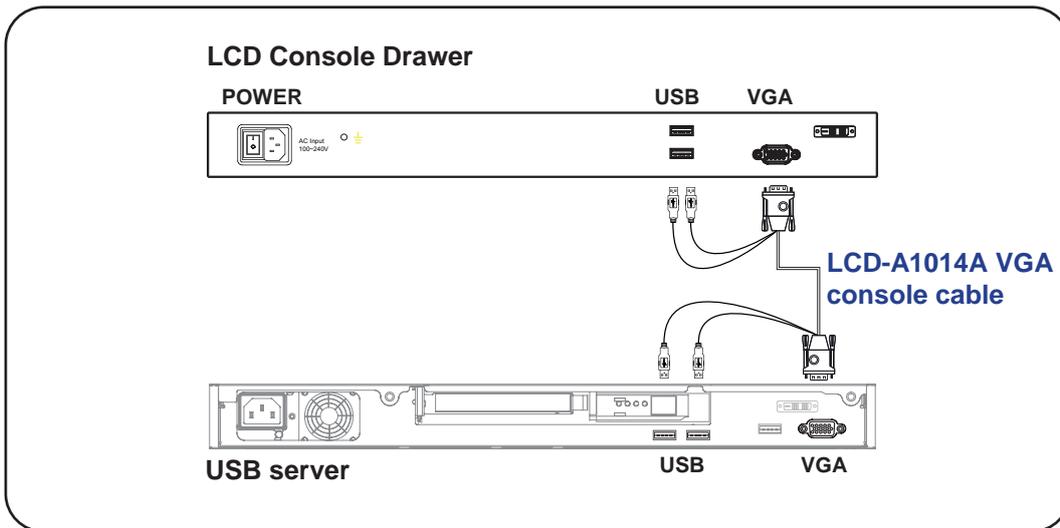


< 1.4 > Connection to **external KVM** via LCD-A3004A cable

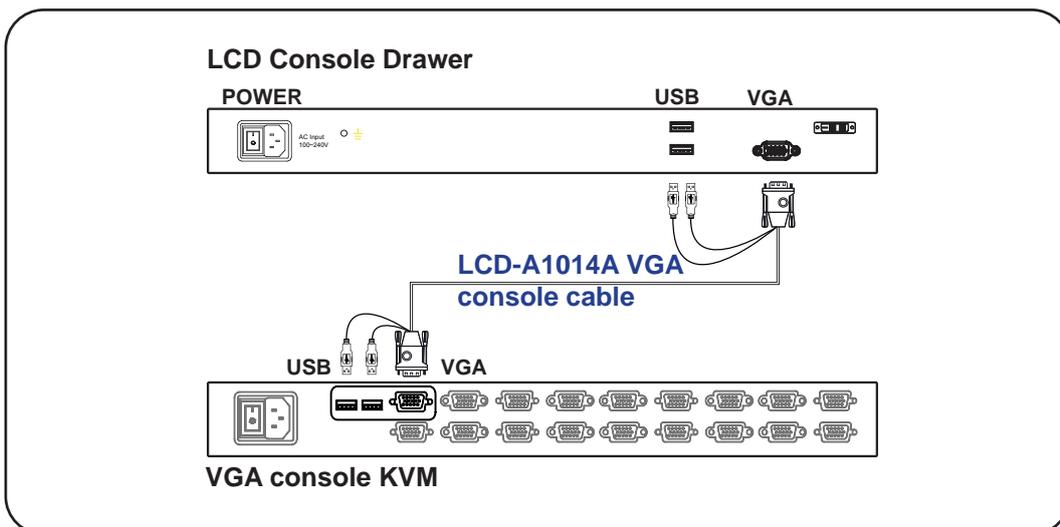


Caution : The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting 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 > Connection to **USB Server** via LCD-A1014A cable



< 1.4 > Connection to **external KVM** via LCD-A1014A cable



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 > Specifications / OSD

< 2.1 > Product Specifications

LCD Panel	Panel Size (diagonal)	19-inch Widescreen TFT color LCD
	Display pixel (dots x lines)	1440 x 900 (1152 x 900 Native)
	Brightness (typ.)	250
	Contrast Ratio (typ.)	1000:1
	Color	16.7 M
	Viewing Angle (L/R/U/D)	85/85/80/80
	Response Time (ms)	5
	Dot pitch (mm)	0.2835
	Display Area (mm)	408.24H x 255.15V
	Surface treatment	Anti-glare
	Surface hardness	3H
	Backlight Type	LED
MTBF (hrs)	30,000	

Video Connectivity	Digital	HDMI	HDMI 1.2 / HDCP 1.1
		DVI	DVI-D, TMDS single link
	Analog	VGA	Analog 0.7Vp-p
		Composite (BNC)	NTSC & PAL
		S-Video (4-pin)	NTSC & PAL
	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

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

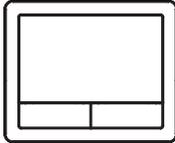
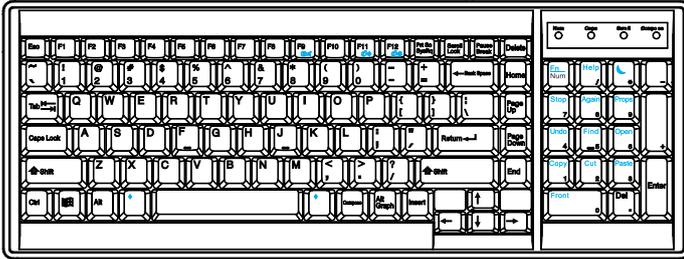
Physical Specification	Product (W x D x H)	441.6 x 460 x 44 mm 17.4 x 18.1 x 1.73 inch
	Net Weight	11.5 kg / 25.3 lb

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

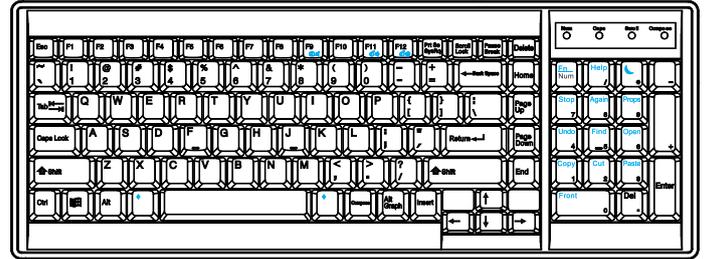
Applicable Format	DVI-D / VGA Input	PC Signal	1440 x 900 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 768 x 60 / 75Hz
			1152 x 864 x 75Hz
			1024 x 768 x 60 / 70 / 75Hz
			848 x 480 x 60Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
			640 x 400 x 70Hz
	640 x 350 x 70Hz		
	HDMI Input	PC Signal	Same as VGA
			Video Signal
480p : 60Hz			
576p : 50Hz			
	Audio Signal	2ch Linear PCM (32 / 44.1 / 48 KHz)	
	Speaker	Dual Stereo Speaker, 2 x 2W	

< 2.2 > Keyboard / Mouse Specifications

Sn SUN keyboard integrated with touchpad



Sb SUN keyboard integrated with trackball

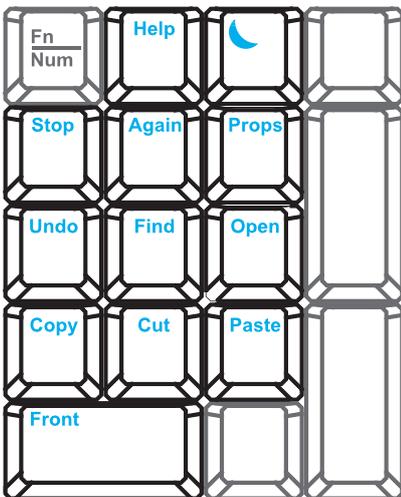


SUN keyboard integrated with touchpad / trackball



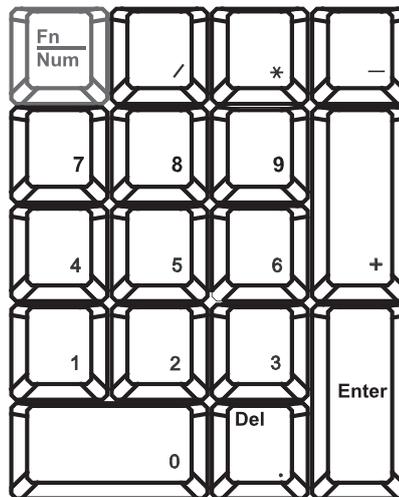
- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface
- US layout only

How to Use SUN Keyboard



Num LED in Off mode

Key pad behaves as a SUN Solar system administration command mode

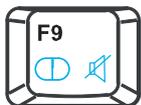


Num LED in Green mode

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

< 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** ).

Ver: G56SN20SSTD701 1024 x 768 59.8Hz

	Image
	Brightness <input type="range" value="50"/> 50
	Contrast <input type="range" value="50"/> 50
	Color Temp User
	Red <input type="range" value="255"/> 255
	Green <input type="range" value="255"/> 255
	Blue <input type="range" value="255"/> 255

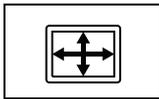
Adjust: ←→ Select: ↑↓ Set: ●/■ Exit: ↵

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



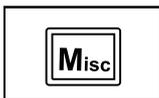
Video:

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



Audio:

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

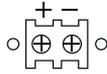


Misc:

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

< Part 3 > Options

< 3.1 > 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) Chassis extension in depth to 530mm (20.9")

< Part 4 > KVM Integration

2K KVM 	Local	Remote	IP	8-port	-	-
	0	0	0	-8HD	-	-

DVI-D KVM 	Local	Remote	IP	12-port	-	-
	1	0	0	-12DVI	-	-

Cat6 Matrix KVM 	Local	Remote	IP	8-port	16-port	32-port
	1	1	1	-	-MU163IP	-MU323IP
	1	1	2	-	-MU164IP2	-MU324IP2
	1	1	0	-	-MU162	-MU322
	1	2	0	-	-MU163	-MU323
1	3	0	-	-MU164	-MU324	

Cat6 Combo KVM 	Local	Remote	IP	8-port	16-port	32-port
	1	0	1	-U8KVM2IP	-U16KVM2IP	-U32KVM2IP
	1	1	0	-U8KVM2	-U16KVM2	-U32KVM2
1	0	0	-U8KVM	-U16KVM	-U32KVM	

DB-15 Matrix KVM 	Local	Remote	IP	8-port	16-port	32-port
	1	1	1	-M83IP	-M163IP	-
	1	1	2	-M84IP2	-M164IP2	-
	1	1	0	-M82	-M162	-
	1	2	0	-M83	-M163	-
1	3	0	-M84	-M164	-	

DB-15 Combo KVM 	Local	Remote	IP	8-port	16-port	32-port
	1	0	1	-8KVM2IP	-16KVM2IP	-
	1	1	0	-8KVM	-16KVM2	-
1	0	0	-8KVM-u	-16KVM-u	-	

DB-15 USB Hub KVM 	Local	Remote	IP	8-port	16-port	32-port
	1	0	1	-H8KVM2IP	-H16KVM2IP	-
	1	1	0	-H8KVM2	-H16KVM2	-
1	0	0	-H8KVM-u	-H16KVM-u	-	

Model	Product Dimension (W x D x H)	Net Weight
LCD1U19-13 w/ KVM	441.6 x 580 x 44 mm 17.4 x 22.8 x 1.73 inch	12.5 kg 28 lb

The company reserves the right to modify product specifications without prior notice and assumes no responsibility for any error which may appear in this publication.

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