

Toll Free: 1-888-865-6888

Tel: 510-226-8368 Fax: 510-226-8968

Email: sales@RackmountMart.com

User Manual 21.5" FHD 1920 x 1080 (1152 x 900) LCD





LCD1U21-02

1U SUN LCD Console Drawer

Options:

- DC power





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 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.

Contents

< Part. 1 >	LCD1U21-02	
1.1 1.2 1.3 1.4	Package Content Structure Diagram & Dimension Installation Connection	P.1 P.1 - 2 P.3 - 4 P.5
< Part. 2 >	Specifications / OSD	
2.1 2.2 2.3	Product Specifications Keyboard / Mouse Specifications On-screen Display Operation (OSD)	P.6 - 7 P.8 P.9 - 10
< Part. 3 >	Options	
3.1	DC Power: 12V / 24V / 48V / 110 ~ 125V	P.11
< Part. 4 >	KVM Integration	P.12

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

< Part 1 >

< 1.1 > Package Content



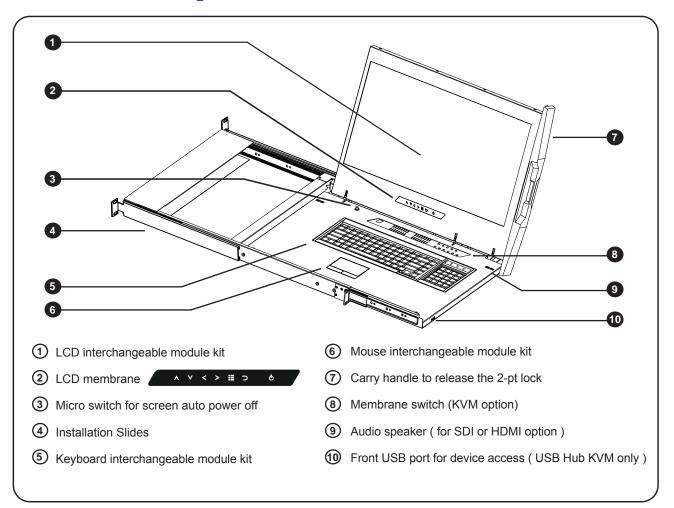
LCD1U21-02 unit X 1

- LCD-A3004 6ft DVI-D console cable X 1
- Power cord X 1
- M6 screw, cage nut & cup washer X8



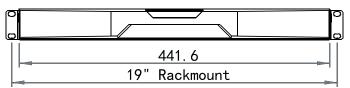
The above package content is only for the single console models. It varies with options such as KVM & DC power.

< 1.2 > Structure Diagram



< 1.2 > Dimension

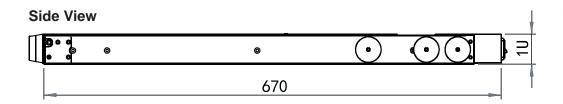
Front View



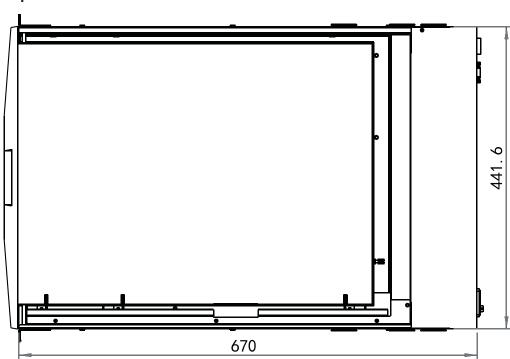
Rear View



UNIT : mm 1mm = 0.03937 inch



Top View

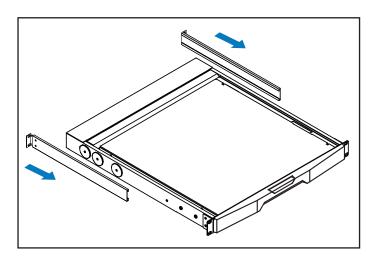


Model	Product Dimension (W x D x H)	Net Weight
LCD1U21-02	441.6 x 670 x 44 mm 17.4 x 26.4 x 1.73"	14.7 kg 32.3 lb



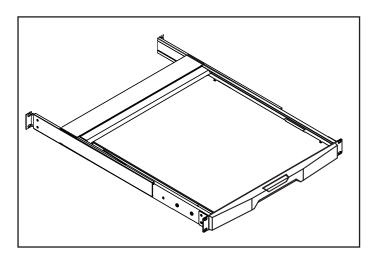
The weight is only for the single console models. It varies with accessories & options such as KVM & DC power.

< 1.3 > Installation - How to install Installation Slides



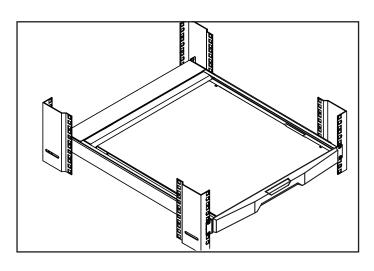
Step 1

■ 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.

< 1.3 > Installation- How to use the drawer



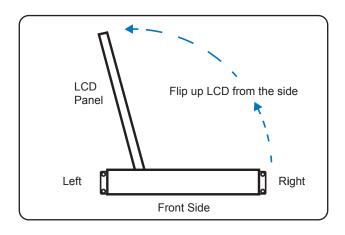
■ Hold the handle and slide out the drawer.



■ Flip up the LCD to a suitable angle.



■ Operate the LCD console drawer.

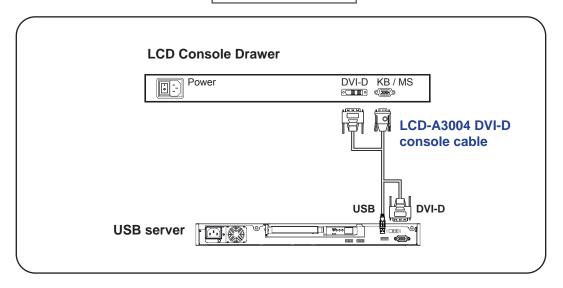


Option - Right Side Open

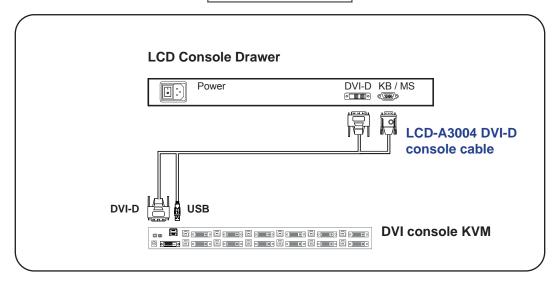
■ Add R at the end of the model no.

< 1.4 > Connection to USB Server

via LCD-A3004 cable



< 1.4 > Connection to external KVM via LCD-A3004 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 >

< 2.1 > Product Specifications

LCD	Manufacturer	VNO
Panel	Panel Size (diagonal)	21.5-inch Widescreen TFT color LCD
	Display pixel (dots x lines)	1920 x 1080
	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)	0.248
	Display Area (mm)	476.64H x 268.11V
	Surface treatment	Haze 25%, Hard-coating
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	30,000

Video	Digital	HDMI	HDMI 1.3, CEA-861-D
Connectivity		DVI	DVI-D, TMDS single link
	Plug & Play	DVI	VESA EDID structure 1.3

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption	Screen ON	Max. 32W
	for Single Console	Power saving mode	Max. 4W
		Power button OFF	Max. 1W
	Power Consumption	Screen ON	Max. 62W
	with KVM integration	Power saving mode	Max. 34W

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

Regulatory	Safety	FCC & CE certified	
	Environmental	RoHS2 & REACH compliant	

Environmental	Operating	Temperature	0 to 55°C degree
Conditions		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

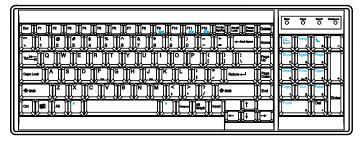
Physical	Product (WxDxH)	441.6 x 670 x 44 mm
Specification		17.4 x 26.4 x 1.73 inch
	Net Weight	14.7 kgs / 32.3 lbs

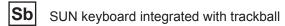
Applicable	DVI-D Input	PC Signal	1920 x 1080 x 60Hz
Format			1360 x 768 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 768 x 60 / 75Hz
			1152 x 864 x 75Hz
			1024 x 768 x 60 / 70 / 75Hz
			848 x 480 x 60Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz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

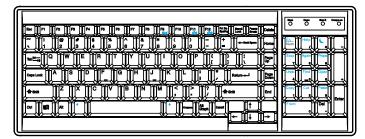
< 2.2 > SUN Keyboard / Mouse Options

Sn

SUN keyboard integrated with touchpad









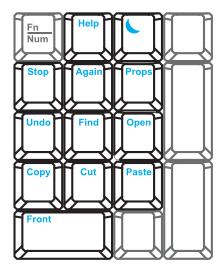




SUN keyboard integrated with touchpad / trackball SOLARIS®

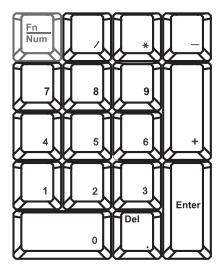
- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface
- US layout only

How to Use "SUN" Keyboard



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)



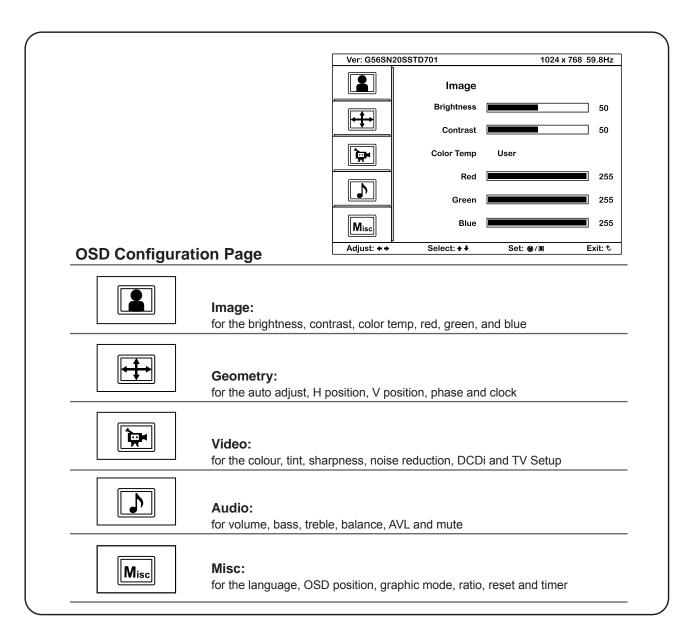
Membrane Switch	Function
	Turn the monitor on or off
	Display the OSD menu Act as an Enter key to select screen setting options
$\wedge $	Scroll through menu options and adjust the displayed control
	Exit the OSD screen Go back to the previous on-screen sub-menu or main menu

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)



< Part 3 >

< 3.1 > Options : DC Power



Model	12V	24V	48V	110 ~ 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	40 mA
- Full load	4950 mA	2450 mA	1220 mA	993 mA
Output rating				
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	8.4A
Efficiency	84%	85%	85%	92%

DC power



*** For DC power option :

- (1) DC option excludes AC power adapter and power cord.
- (2) Casing depth will be extended from 670mm (26.4 ") to 720mm (28.3 ")

< Part. 4 > KVM Integration

For right side open - Add R at the end of the model no.

Matrix	Local	Remote	IP	8-port	16-port	32-port
Cat6 KVM	1	1	1	-	-MUIP163IP	-MUIP323IP
	1	1	2	-	-MUIP164IP	-MUIP324IP2
	1	1	0	-	-MU162	-MU322
	1	2	0	-	-MU163	-MU323
	1	3	0	-	-MU164	-MU324

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

Matrix	Local	Remote	IP	8-port	16-port	32-port
DB-15 KVM	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	-

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

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

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

Model	Product Dimension (W x D x H)	Net Weight
with KVM	441.6 x 770 x 44 mm 17.4 x 30.3 x 1.73"	15.5 kg 34.1 lb

