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User Manual 17" Full HD 1080p

1080p
Full HD



LCD1U17-46

1U Monitor Rack Console Short Depth

Short depth
440mm / 17.3"

Options :

- SDI
- AV / BNC
- Display Port
- DVI-D
- DC power
- KVM switch

FC CE UK CA  REACH

Legal Information

First English printing, January 2024

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 >

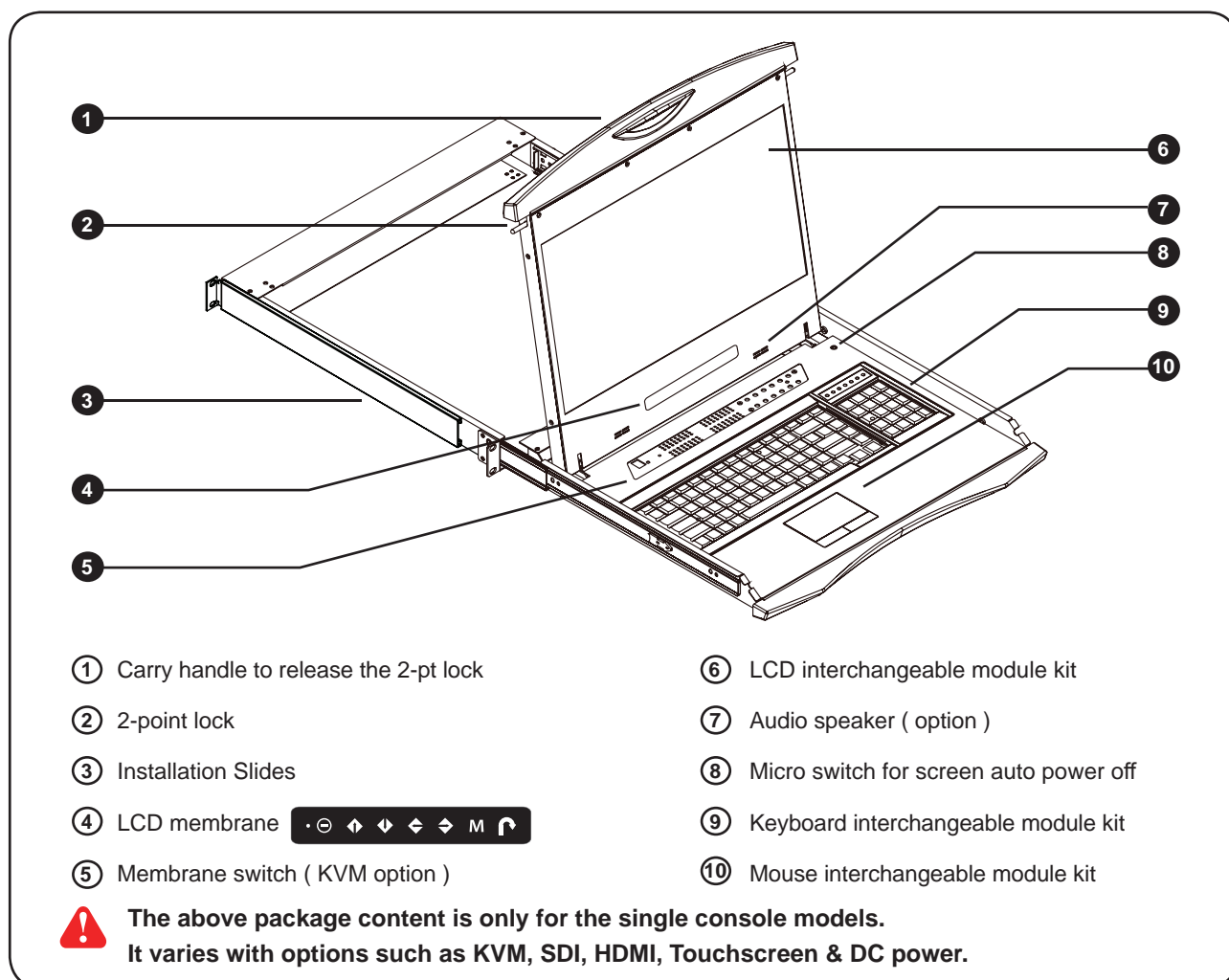
< 1.1 > Package Content

LCD1U17-46



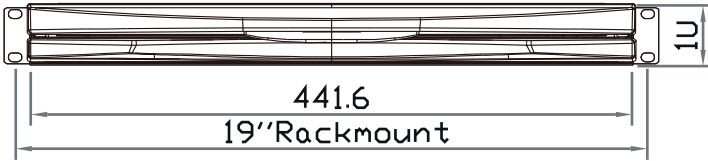
- LCD-A3010 6ft HDMI console cable X 1
(Alternative : LCD-A1014A 6ft VGA console cable)
- Power cord X 1
- M6 screw, cage nut & cup washer X 8

< 1.2 > Structure Diagram

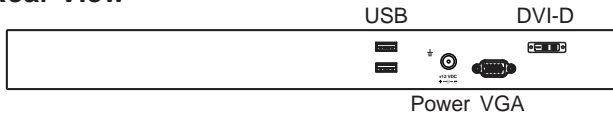


< 1.2 > Dimension

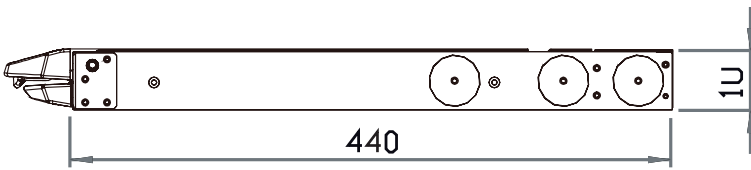
Front View



Rear View



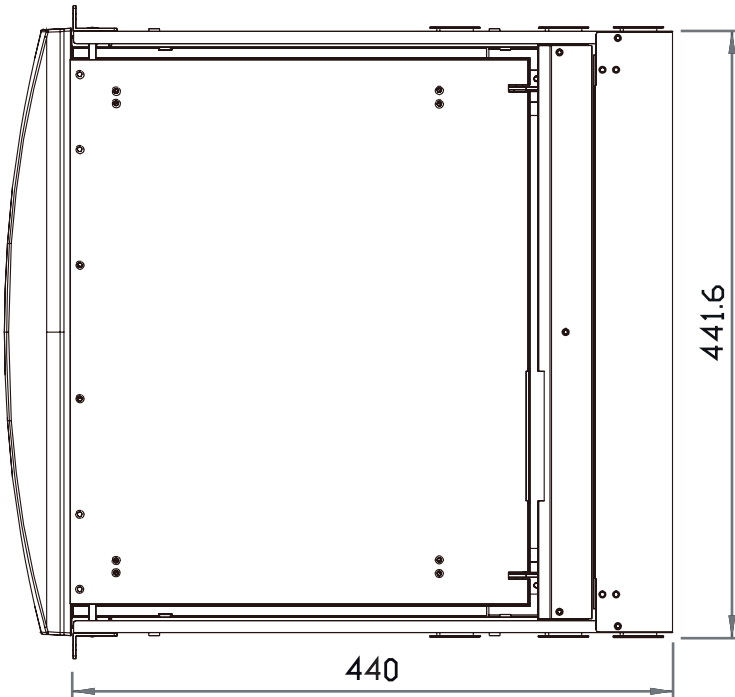
Side View



Side View

UNIT : mm
1mm = 0.03937 inch

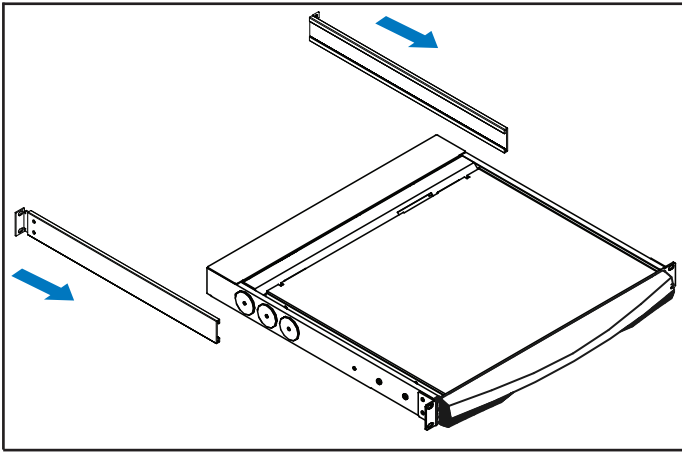
Top View



Model	Product Dimension (W x D x H)	Net Weight
LCD1U17-46	441.6 x 440 x 44 mm 17.4 x 17.3 x 1.73 inch	12 kg 26.4 lb

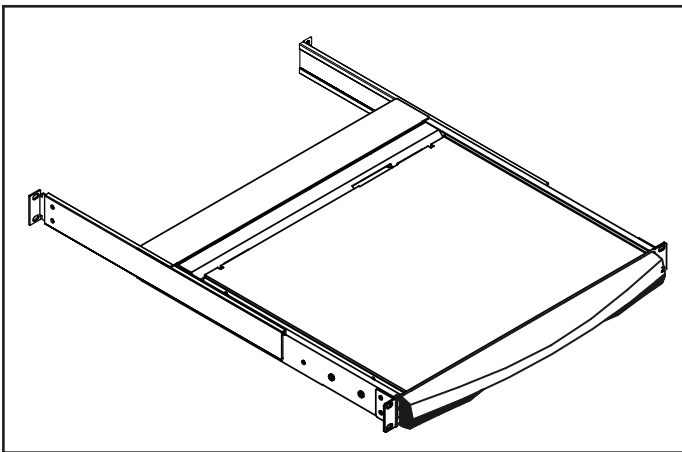


The weight is only for the single console models. It varies with accessories & options such as KVM, HDMI & DC power.



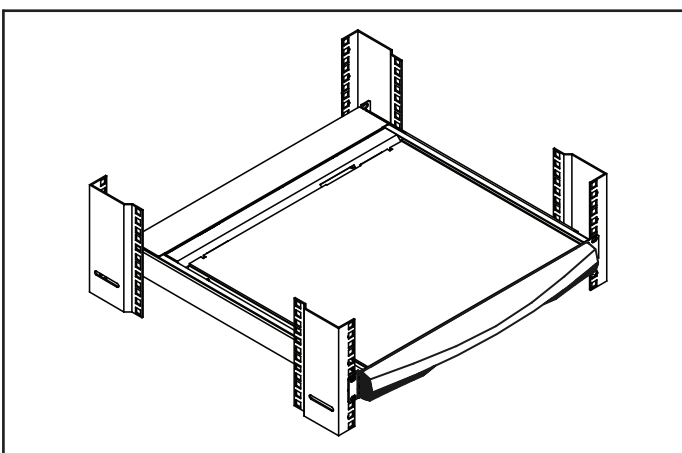
Step 1

- 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



- Pull the tab on the front handle and gently slide out the drawer.

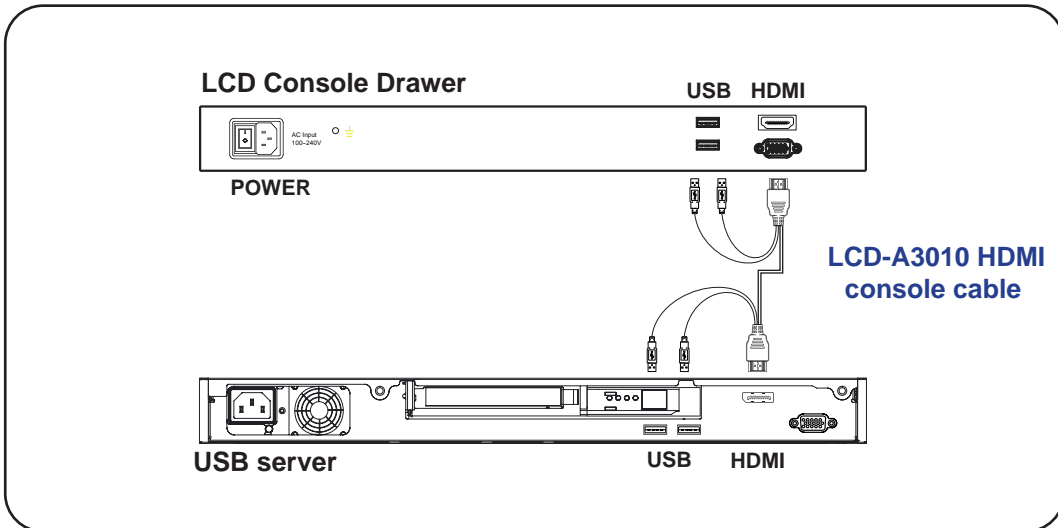


- Flip up the LCD to a suitable angle.

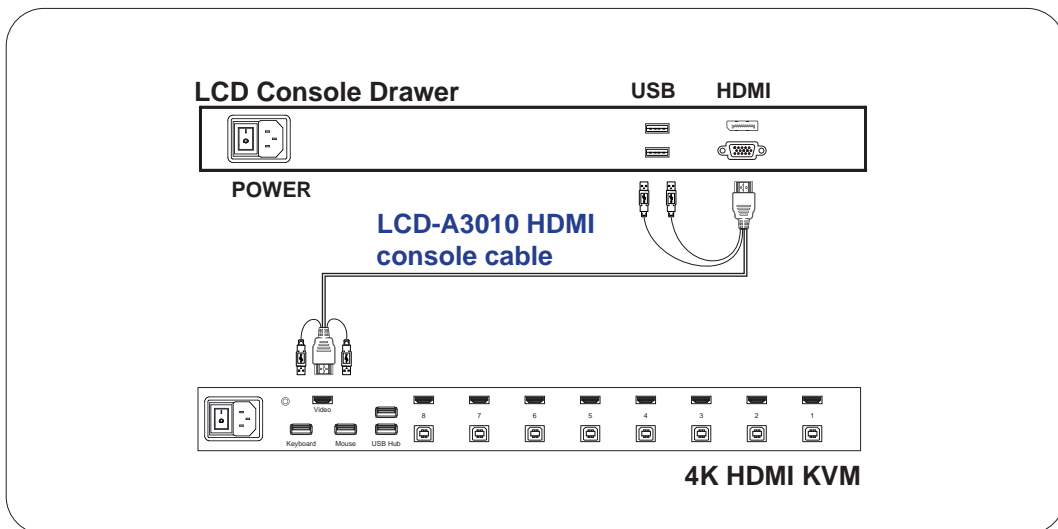


- Operate the LCD console drawer.

< 1.4 > Connection to **USB Server** via LCD-A3010 cable

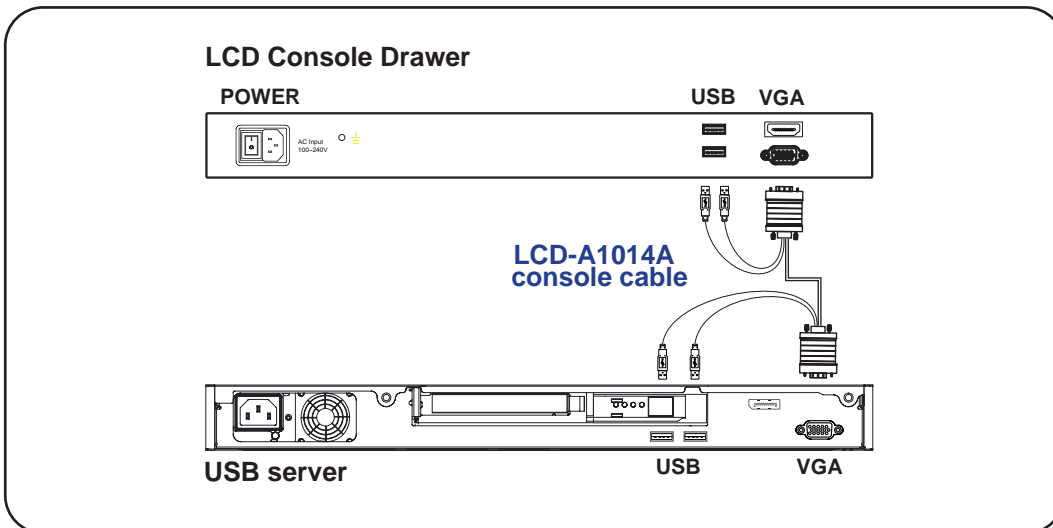


< 1.4 > Connection to **external KVM** via LCD-A3010 cable

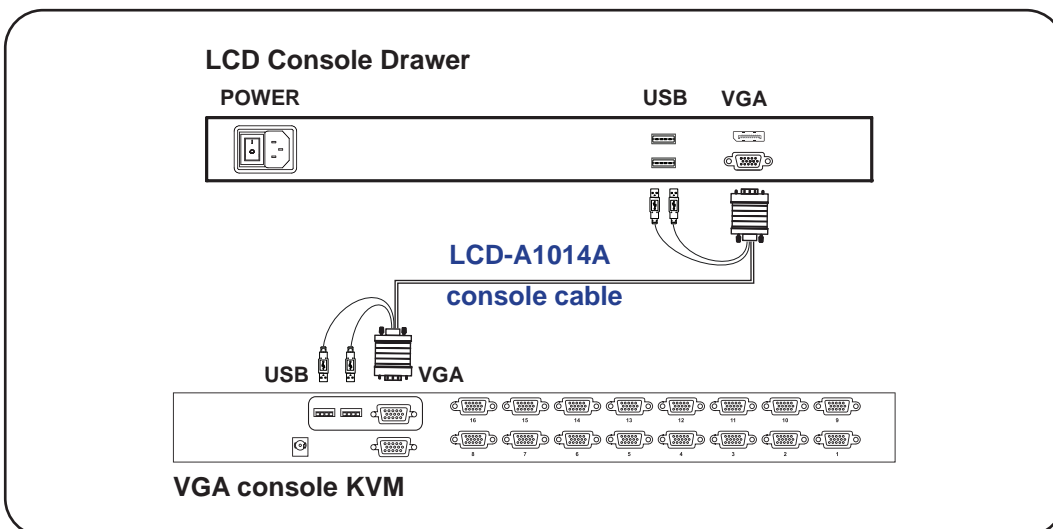


Caution : The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting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

LED-backlit LCD Panel	Panel Size (diagonal)	17.3-inch Widescreen TFT color LED-backlit LCD
	Display pixel (dots x lines)	1920 x 1080
	Brightness (typ.)	300
	Contrast Ratio (typ.)	1000:1
	Color	16.7 M, 8-bit
	Viewing Angle (L/R/U/D)	85/85/85/85
	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)	15,000	

Video Connectivity	Digital	HDMI	HDMI 1.4, HDCP 1.4
		DVI	DVI-D, TMDS single link
		Display Port	DP 1.0 / HDCP 1.3
	Analog	VGA	Analog 0.7Vp-p
		Composite (BNC)	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. 14W
		Power saving mode	Max. 2W
		Power button OFF	Max. 1W
	Power Consumption with KVM integration	Screen ON	Max. 45W
		Power saving mode	Max. 34W

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

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

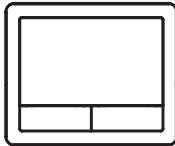
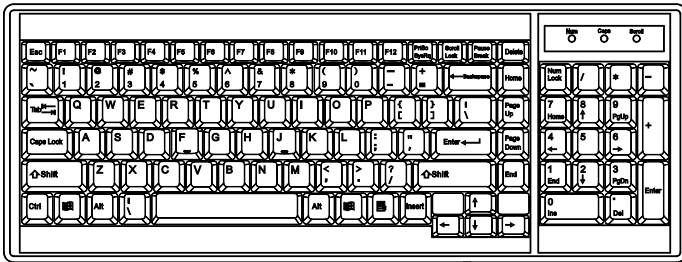
Physical Specification		LCD1U17-46
	Product (W x D x H)	441.6 x 440 x 44 mm 17.4 x 17.3 x 1.73 inch
	Net Weight	12 kg / 26.4 lb

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

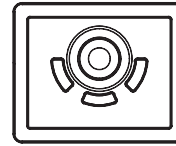
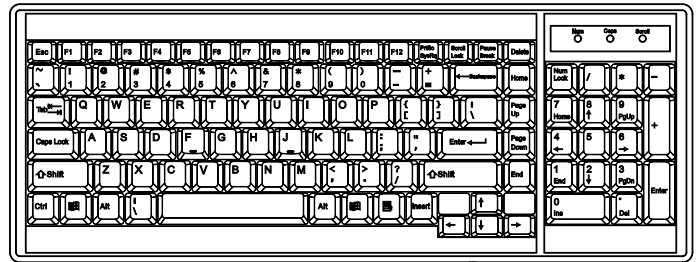
Applicable Format	DVI-D / VGA Input	PC Signal	1920 x 1080 x 60Hz	
			1680 x 1050 x 60Hz	
			1440 x 900 x 60Hz	
			1360 x 768 x 60Hz	
			1280 x 1024 x 60Hz	
	HDMI Input	PC Signal	1280 x 768 x 60Hz	
			1280 x 720 x 60Hz	
			1152 x 864 x 60Hz	
			1024 x 768 x 60Hz	
			800 x 600 x 60Hz	
	Display port Input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

*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.

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



EMEA

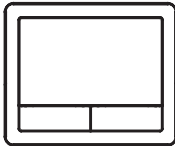
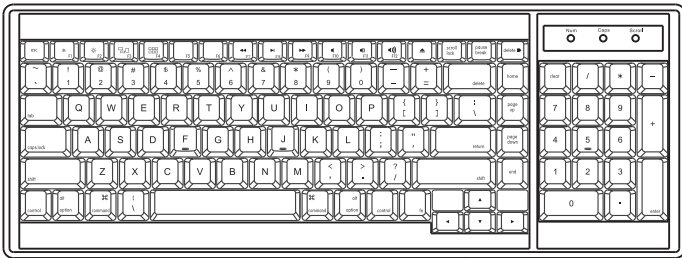


Asia

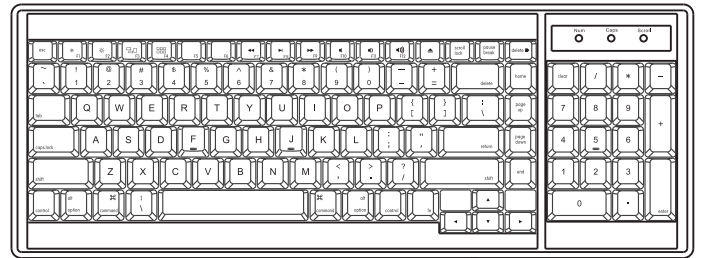


< 2.2 > MAC Keyboard / Mouse Options

Mn MAC keyboard integrated with touchpad



Mb MAC keyboard integrated with trackball

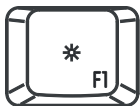


Supporting layouts

America 
United States

How to Use "MAC" Keyboard

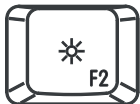
Keyboard Features



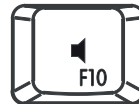
F1
Decrease display brightness



F9
Fast-forward



F2
Increase display brightness



F10
Mute sound



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



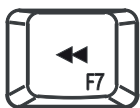
F11
Decrease volume



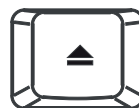
F4
Dashboard



F12
Increase volume



F7
Rewind



Eject disc

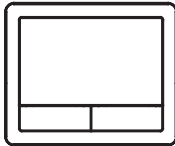
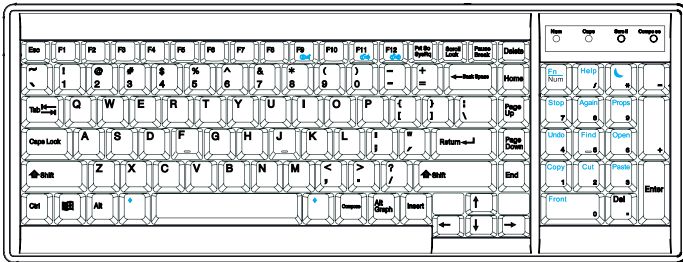


F8
Play / Pause

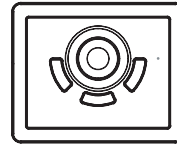
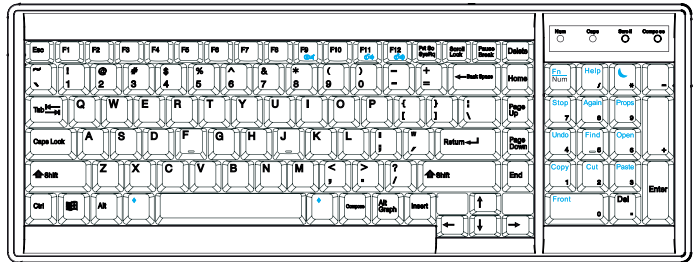


Command

Sn SUN keyboard integrated with touchpad



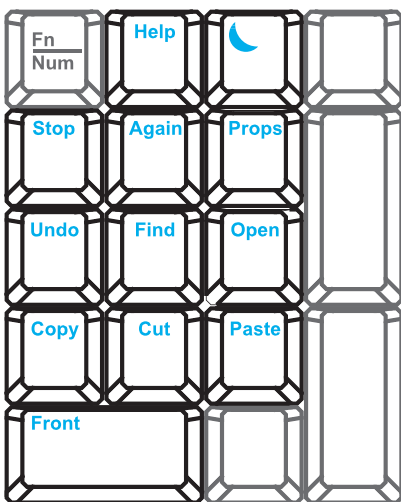
Sb SUN keyboard integrated with trackball



S keyboard integrated with touchpad / trackball

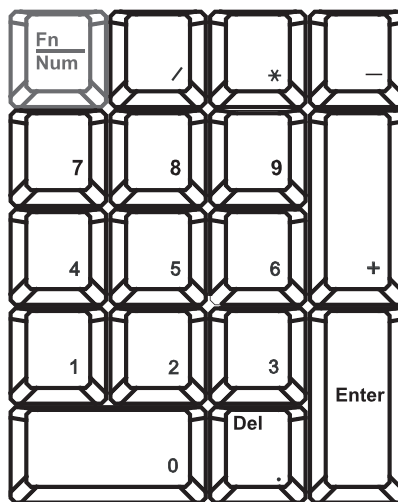
- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface
- US layout only

How to Use "S" Keyboard



Num LED in Off mode

Key pad behaves as a SUN Solar system administration command mode

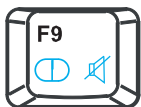


Num LED in Green mode

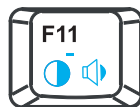
Key pad behaves as a normal key pad mode

Audio / Display Keys

* Please ask your supplier for full details



F9
Audio : Mute
Display : Degauss



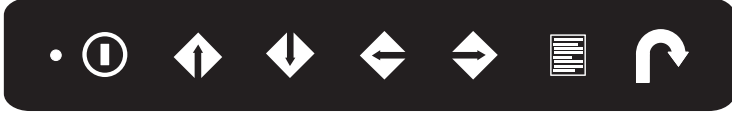
F11
Audio : Decrease volume
Display : Decrease contrast








F12
Audio : Increase volume
Display : Increase contrast





< 2.3 > 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)

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 select the video input
- (c) Press the button  to confirm the selection

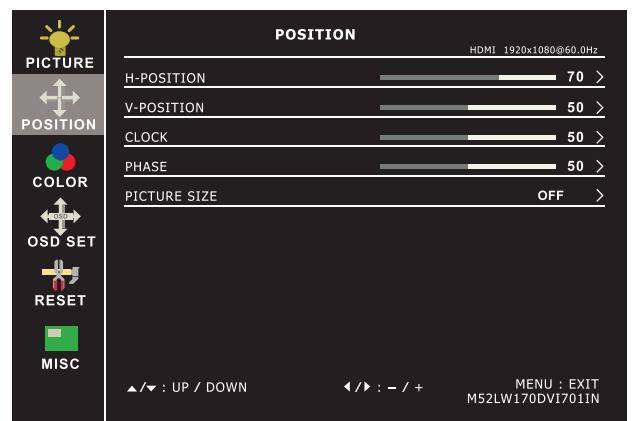
① Picture

- 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



② Position

- H-Position : To adjust the horizontal position of the video
- V-Position : To adjust the vertical position of the video
- Clock : To auto adjust H. Size of the screen
- Phase : To tune the screen.
- Picture size : FULL SCREEEN / 4:3 / 5:4 / 16:10

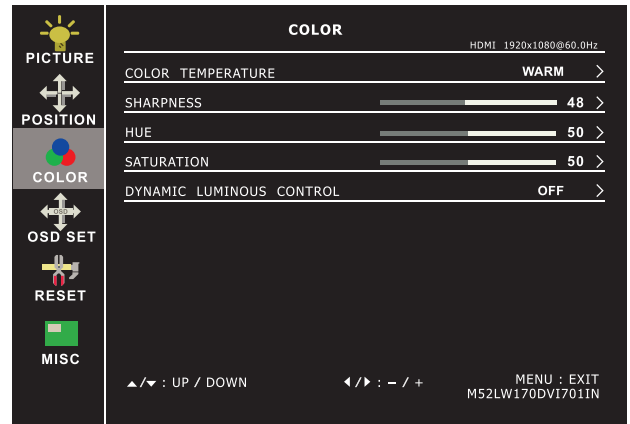


< 2.3 > On-screen Display Operation (OSD)

LCD1U17-46

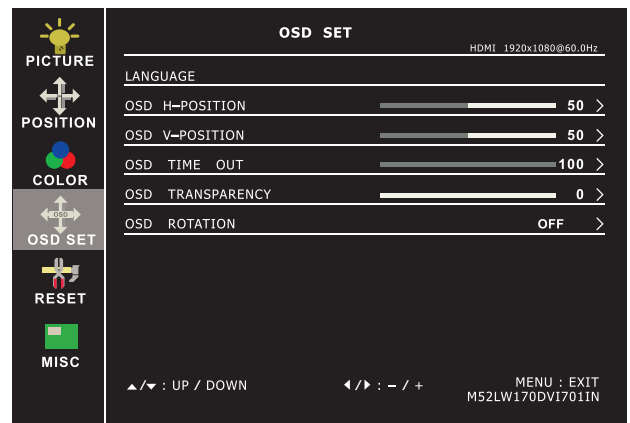
③ Color

- 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



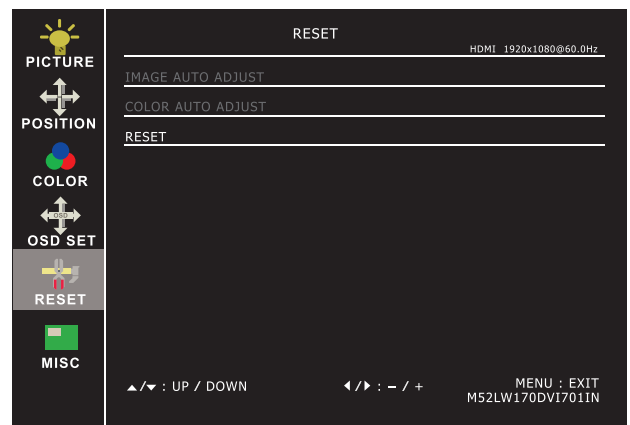
④ OSD Set

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



⑤ Reset

- Reset : Return the adjustment back to factory setting



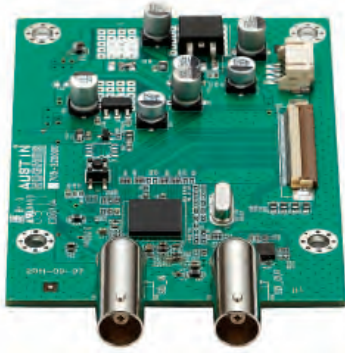
⑥ MISC

- 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



< Part 3 >

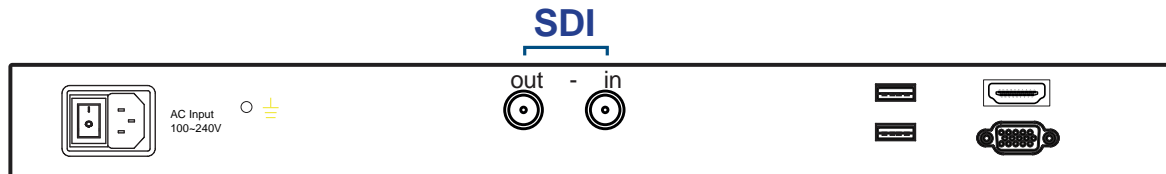
< 3.1 > Options : 3G / HD / SD-SDI input



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 option comes with speakers.



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

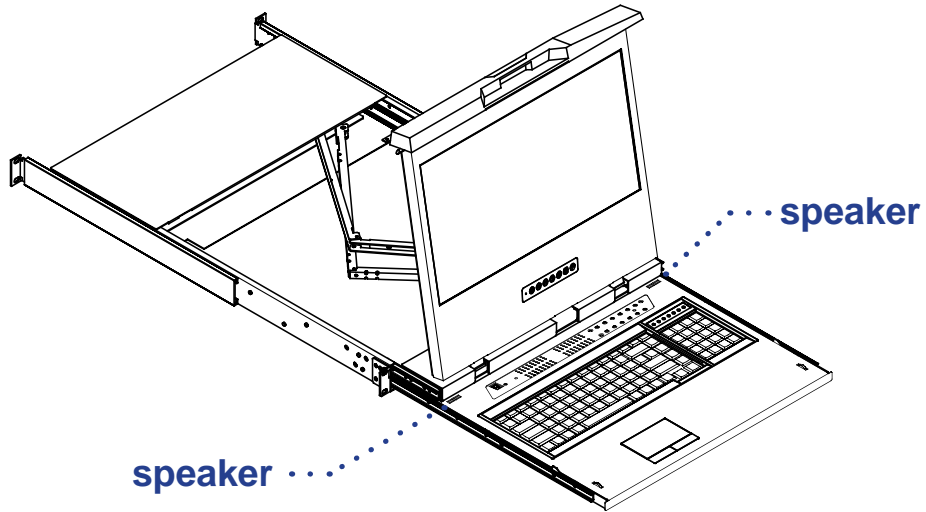
Compatible Audio Format	3G-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
	HD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized Video
	SD-SDI	48kHz, 16 / 20 / 24 bit, 2 CH, Synchronized / Asynchronized Video

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

* For reference only. Actual layout may vary based on selected options

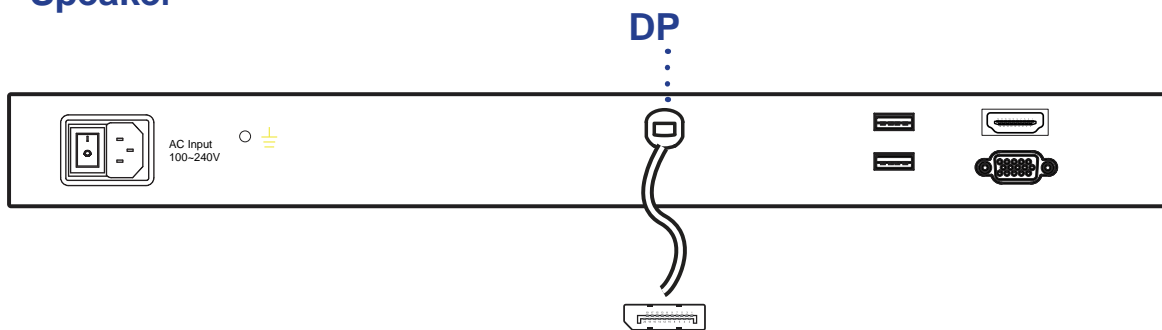
Speaker Option



DP Option

- Display Port (DP 1.0, HDCP 1.3)

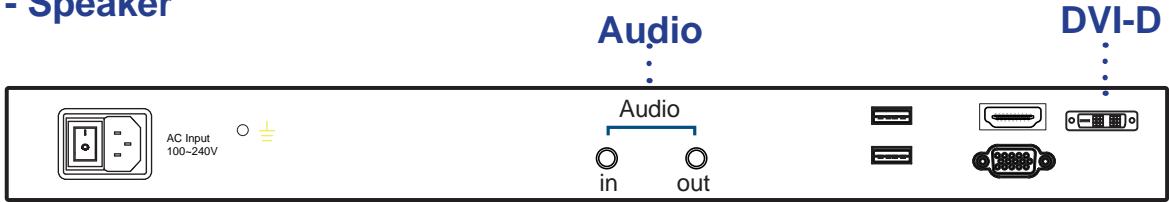
- Speaker



< 3.2 > Options :

DVI-D Option

- DVI-D (DVI-D, TMDS single link)
- Audio input & output
- Speaker



BNC Option

- BNC (Composite, BNC)
- Audio IN
- Speaker



< 3.3 > 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



*** For DC power option :

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

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


< 4.2 > LCD1U17-46 KVM Integration

** Resolution related to LCD specification






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

2K KVM Cable		
		Resolution 16:9 - max. 2560 x 1440 Support **: 16:10 - max. 1920 x 1200 4:3 - max. 1600 x 1200
LCD-A3011 (6 ft) DVI-D KVM cable	LCD-A3012 (6 ft) HDMI KVM cable	

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

DVI-D USB KVM Cable		
Resolution 16:10 - max. 1920 x 1200 Support **: 16:9 - max. 1920 x 1080 4:3 - max. 1600 x 1200		LCD-A3005 (6 ft) LCD-A3006 (15 ft)




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

Cat6 KVM Dongle		
		
LCD-A2005 DP - USB dongle	LCD-A2004 HDMI - USB dongle	LCD-A2003 DVI - USB dongle
		
LCD-A2001 VGA - USB dongle	LCD-A2002 VGA - PS/2 dongle	
Resolution 16:10 - max. 1920 x 1200 Support **: 16:9 - max. 1920 x 1080 4:3 - max. 1600 x 1200		

** Resolution related to LCD specification

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

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

DB-15 VGA USB KVM Cable		
		
LCD-A1014 (6 ft)	LCD-A1015 (10 ft)	LCD-A1016 (15 ft)
Resolution 16:10 - max. 1920 x 1200 Support : 16:9 - max. 1920 x 1080 4:3 - max. 1600 x 1200		
** Resolution related to LCD specification		

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

Model	Product Dimension (W x D x H)	Net Weight
LCD1U17-46 w/KVM	441.6 x 530 x 44 mm 17.4 x 20.9 x 1.73 inch	13 kg 28.6 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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