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User Manual 17" FHD 1080p LED-backlit LCD



LCD1U17-31

1U Dual Slide LED-backlit LCD Console Drawer

Options :

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

FC CE LA 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.
 - $\hfill\square$ 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.
 - $\hfill\square$ Use of supplies or parts not meeting our specifications.
 - \Box Normal wear and tear.
 - $\hfill\square$ 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

A 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 :

- 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



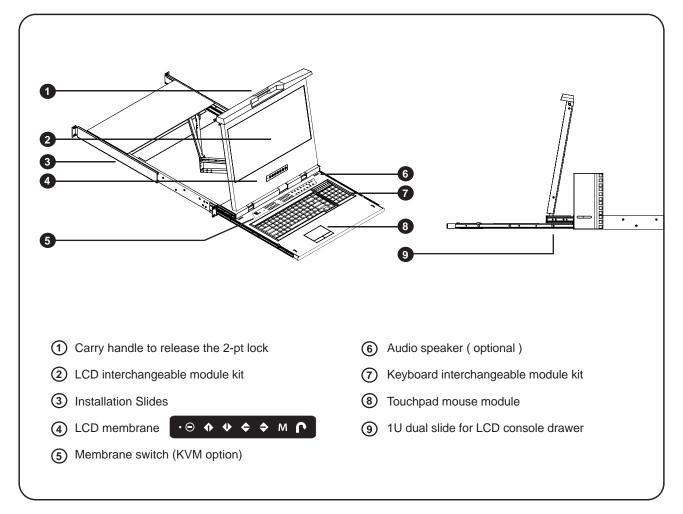
LCD1U17-31 unit X 1

- LCD-A3010 6ft HDMI console cable X 1 (Alternative : LCD-A1014A 6ft VGA console cable)
- Power cord X1
- 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, SDI, DVI-D & DC power.

< 1.2 > Structure Diagram

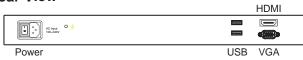


< 1.2 > Dimension

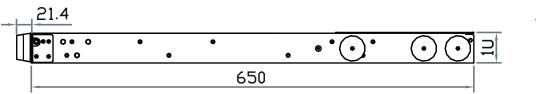
Front View



Rear View

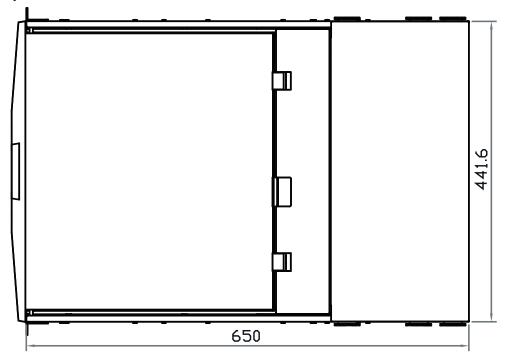


Side View



UNIT : mm 1mm = 0.03937 inch

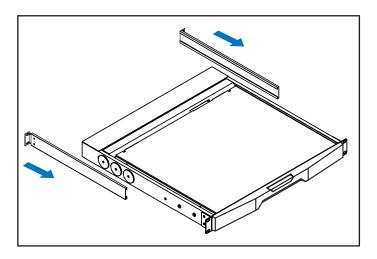
Top View



Model	Model Product Dimension (W x D x H)	
LCD1U17-31	441.6 x 650 x 44 mm 17.4 x 25.6 x 1.73 inch	11.9 kg 26.2 lb

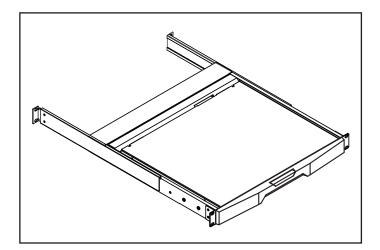
The weight is only for the single console models. It varies with accessories & options such as KVM, SDI, DVI-D & DC power.

< 1.3 > Installation - How to install Installation Slides



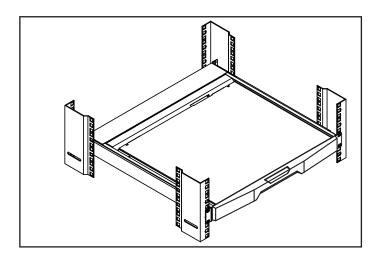


Insert the left and right rear mounting brackets into the LCD console drawer.





- Measure the depth of the front and rear mounting rails.
- Align each rear mounting bracket to a suitable length.





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 Dual Slides







Press the handle button and gently slide out the drawer.

■ Flip up the LCD to a suitable angle.

■ Operate the LCD console drawer.

< 1.3 > Installation - How to Use the Dual Slides



■ Flip down the front panel.

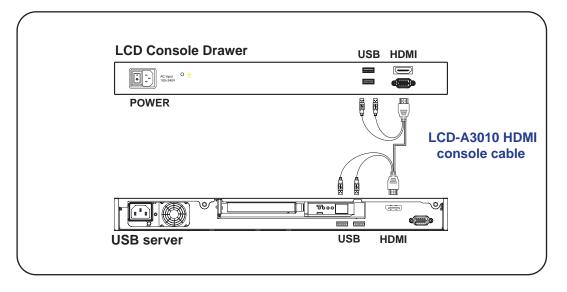




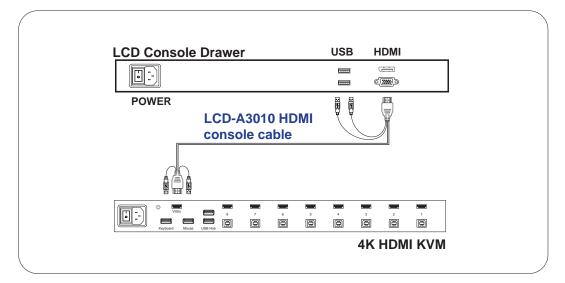
Press the handle button and gently push back the drawer into the rack.

Return the LCD console drawer to park position.

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

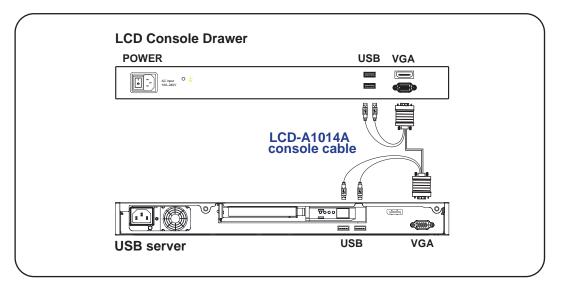


< 1.4 > Connection to external KVM via LCD-A3010 cable

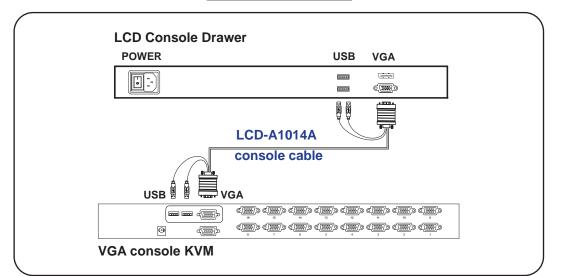


Caution : The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting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

< Part 2 >

< 2.1 > Product Specifications

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
	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	3Н
	Backlight Type	LED
	MTBF (hrs)	15,000

Video	Digital	HDMI	HDMI 1.4, HDCP 1.4
Connectivity		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	Screen ON	Max. 14W
for Single Console	for Single Console	Power saving mode	Max. 2W
		Power button OFF	Max. 1W
	Screen ON	Max. 45W	
	with KVM integration	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	Operating Storage / Non-operating	Temperature	0 to 55°C degree
Conditions		Humidity	10~90%, non-condensing
		Altitude	16,000 ft
		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	Product (W x D x H)	441.6 x 650 x 44 mm 17.4 x 25.6 x 1.73 inch
	Net Weight	11.9 kg / 26.2 lb

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

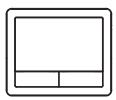
Applicable	DVI-D / VGA Input	PC Signal	1920 x 1080 x 60Hz
Format			1680 x 1050 x 60Hz
			1440 x 900 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60Hz
			1280 x 768 x 60Hz
			1280 x 720 x 60Hz
			1152 x 864 x 60Hz
			1024 x 768 x 60Hz
			800 x 600 x 60Hz
			640 x 480 x 60Hz
		Audio Signal	2ch Linear PCM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

< 2.2 > Keyboard / Mouse Specifications

Ν

keyboard integrated with touchpad

$ \begin{array}{ c } \hline \hline \\ $



Key force	55 ± 5g
Travelling distance	3 ± 0.3mm
Switch life	> 10 million life cycle time
OS support	Windows / Linux / Unix / Mac OS

Supporting layouts

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

< 2.2 > SUN Keyboard / Mouse Options



SUN keyboard integrated with touchpad

	<u> </u>
	En Help
	Undo 11 Find 1 Open
<u>◆•m Z X G V B N M < } (7 em m</u>	Copy Cut Paste

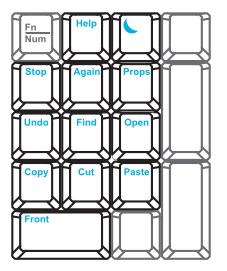


SUN keyboard integrated with touchpad



- 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

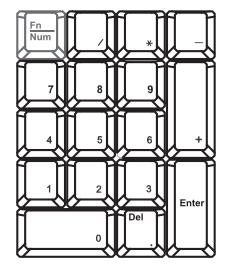


Num LED in Off mode Key pad behaves as a SUN Solar system administration command mode

Audio / Display Keys



F9 Audio : Mute Display : Degauss



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

* Please ask your supplier for full details

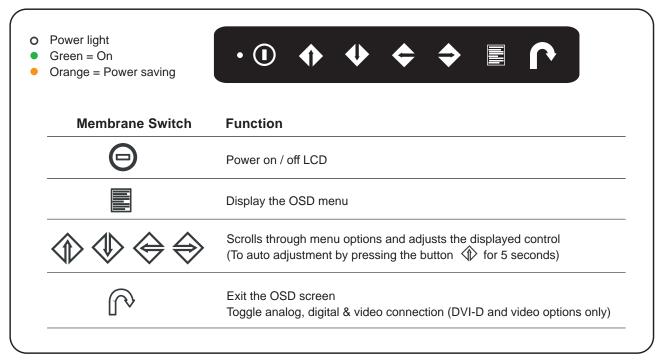


F11 Audio : Decrease volume Display : Decrease contrast



F12 Audio : Increase volume Display : Increase contrast

< 2.3 > On-screen Display Operation (OSD)



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

- (a) Press the button \bigcap to call up the on-screen video mode on top right corner.
- (c) Press the button M 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

		PICTURE	HDMI 1920x1080@60.0Hz
	BRIGHTNESS		70 >
←	CONTRAST		50 >
POSITION	BLACK LEVEL		50 >
COLOR	ECO		STANDARD >
OSD SET			
RESET			
MISC			
	▲/ ▼ : UP / DOWN	∢ / 	MENU : EXIT M52LW170DVI701IN

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 fine tune the screen.
Picture size	: FULL SCREEEN / 4:3 / 5:4 / 16:10

		POSITION	HDMI 1920x1080@60.0Hz
	H-POSITION		70 >
←↓→	V-POSITION		<u> </u>
POSITION	<u>CLOCK</u>		50 >
COLOR	PHASE		50 >
	PICTURE SIZE		OFF >
OSD SET			
RESET			
MISC			
	▲/ ▼ : UP / DOWN	∢/ ▶ : - / +	MENU : EXIT M52LW170DVI701IN

On-screen Display Operation (OSD)

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 Iuminous control : Control the dynamic brightness		

	COLO	R	HDMI 1920x1080@60.0Hz
PICTURE	COLOR TEMPERATURE		WARM >
←	SHARPNESS		48 >
POSITION	HUE		50 <u>></u>
COLOR	SATURATION		50 >
	DYNAMIC LUMINOUS CONTRO	ı <u>L</u>	<u> </u>
RESET			
MISC			
	▲ /▼ : UP / DOWN	∢/ ▶ : - / +	MENU : EXIT M52LW170DVI701IN

(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°

	OSD	SET	HDMI 1920x1080@60.0Hz
	LANGUAGE		
←	OSD H-POSITION		50 >
POSITION	OSD V-POSITION		50 >
COLOR	OSD TIME OUT		100 >
	OSD TRANSPARENCY		 0 >
	OSD ROTATION		OFF >
RESET			
MISC			
	▲/ ▼ : UP / DOWN	∢/ ▶ : - / +	MENU : EXIT M52LW170DVI701IN

5 Reset

Reset : Return the adjustment back to factory setting

		RESET	HDMI 1920x1080@60.0Hz
PICTURE	IMAGE AUTO ADJUST		
	COLOR AUTO ADJUST		
POSITION	RESET		
COLOR			
• •]•			
OSD SET			
RESET			
MISC			
MISC.	▲/▼ : UP / DOWN	∢/ ▶ : - / +	MENU : EXIT M52LW170DVI701IN

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				

		MISC	HDMI 1920x1080@60.0	147
PICTURE	SIGNAL SOURCE		HDMI	>
←] →	MUTE		OFF	>
POSITION	AUDIO IN		Αυτο	>
	VOLUME		70	>
COLOR	SLEEP MODE		OFF	>
+				
OSD SET				
7				
RESET				
MISC				
	▲/▼ : UP / DOWN	∢/ ▶ : - / +	MENU : EX M52LW170DVI701	

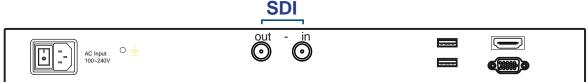
< Part 3 > < 3.1 > Options : 3G / HD / SD-SDI input



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

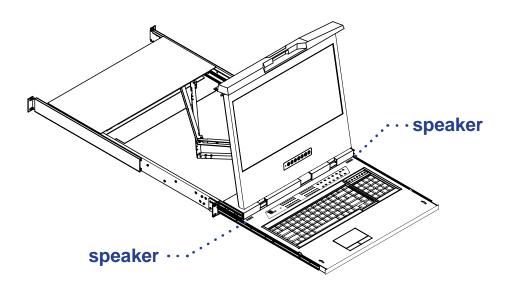
Compatible Video Format	3G-SDI	1080p 1080p 1080i 720p	@60 / 50Hz, 4:2:2 @30 / 25 / 24Hz, 4:4:4 @60 / 50Hz, 4:4:4 @60 / 50Hz, 4:4:4
	HD-SDI	1080p 1080i 720p	@30 / 25 / 24Hz, 4:2:2 @60 / 50Hz, 4:2:2 @60 / 50Hz, 4:2:2
	SD-SDI	480i	@60Hz, 4:2:2
	ITU-R BT.656	576i	@50Hz, 4:2:2

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

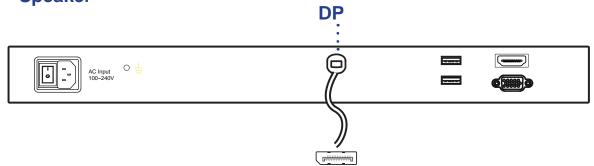
< 3.2 > Options :

Speaker Option



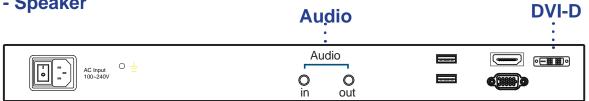
DP Option

- Display Port (DP 1.0, HDCP 1.3)
- Speaker



DVI-D Option

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



BNC Option

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

BNC Audio IN

 •			
•	•		
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•	•		I
0	0		

< 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

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- ******* For DC power option :
 - (1) If the unit with LCD, earthing may be required
 - (2) DC option excludes AC power adapter and power cord.

< Part. 4 > KVM Integration

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

DVI-D	○ⅢⅢⅢ○	Local	Remote	IP	12-port	-	-
KVM	A	1	0	0	-12DVI	-	-

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

Cat6	Local	Remote	IP	8-port	16-port	32-port
Combo	1	0	1	-U8KVM2IP	-U16KVM2IP	-U32KVM2IP
KVM	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	-

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

SL = Scroll Lock OSD Manu : SL + SL + Space Bar Lopout KVM : SL + SL + P Default User Name : 0000000 Default Pasaword :: 0000000	eq:Change Port : SL + SL + Up / Down Arrow Select Port : SL + SL + Bank No. + Port No. Auto Scan : SL + SL + S Reset KVM : 2.0 + 0. on KVM membrane	
		Hot-key label

Model	Product Dimension (W x D x H)	Net Weight	
LCD1U17-31 with KVM	441.6 x 650 x 44 mm 17.4 x 25.6 x 1.73"	12.9 kg 28.4 lb	

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