

# Toll Free: 1-888-865-6888 Tel: 510-226-8368 Fax: 510-226-8968 Email: sales@RackmountMart.com

# User Manual 17" Full HD 1080p



# LCD1U17-46

1U Monitor Rack Console Short Depth

Short depth 440mm / 17.3"

Options :

- HDMI
- DC power
- 8-Port HDMI KVM



# Legal Information

First English printing, April 2022

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.
  - $\hfill\square$  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.

# Contents

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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 :

- 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.

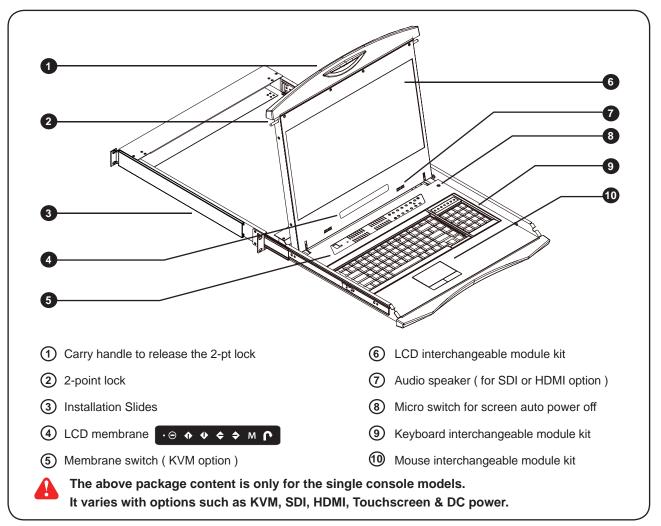


# LCD1U17-46



- LCD-A3004A 6ft DVI-D console cable X 1 (Alternative : LCD-A1014A 6ft VGA console cable )
- 2.5A Power adapter & Power cord X1
- M6 screw, cage nut & cup washer X8

# < 1.2 > Structure Diagram

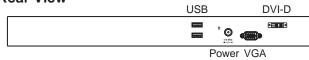


# < 1.2 > Dimension

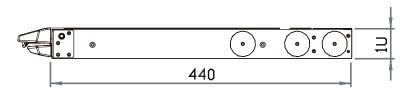
## **Front View**



## **Rear View**



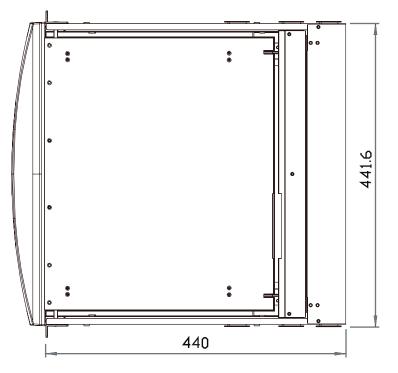
# Side View



Side View

UNIT : mm 1mm = 0.03937 inch





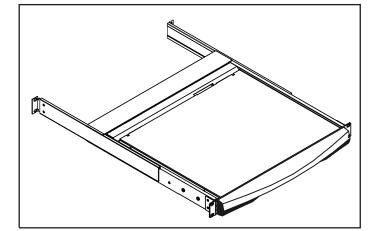
Model	Product Dimension (W x D x H)	Net Weight
LCD1U17-46	441.6 x 440 x 44 mm 17.4 x 17.3 x 1.73 inch	12 kg 26.4 lb

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

# < 1.3 > Installation - How to install Installation Slides

# Step 1

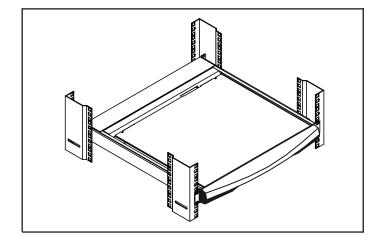
Insert the left and right rear mounting brackets into the LCD console drawer.





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

P.3

■ Fix the LCD console drawer into the rack.





# < 1.3 > Installation- How to use the drawer



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



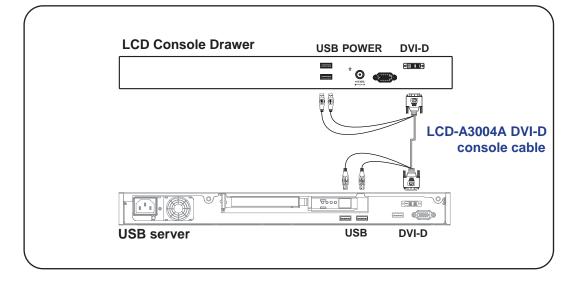
■ Flip up the LCD to a suitable angle.



• Operate the LCD console drawer.

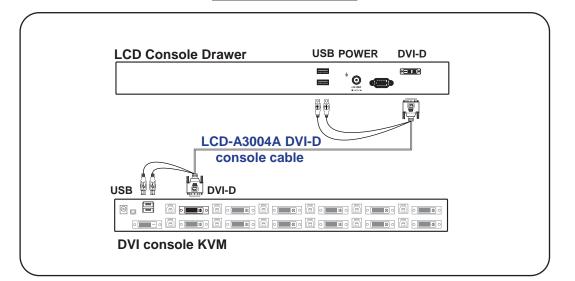
< 1.4 > Connection to USB Server

via LCD-A3004A cable



< 1.4 > Connection to external KVM

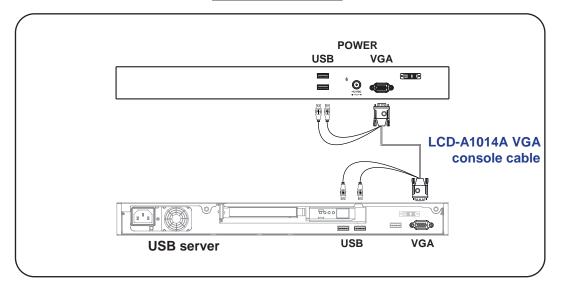
# (VM via LCD-A3004A cable



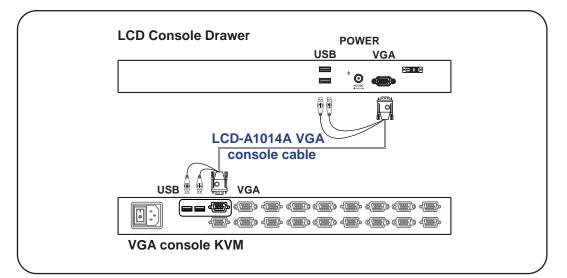
**Caution :** The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before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

er 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

# LCD1U17-46

LCD		LCD1U17-46
Panel	Native Resolution	1920 x 1080
	Panel Size ( diagonal )	17.3"
	Brightness ( cd/m <sup>2</sup> )	300
	Contrast Ratio ( typ. )	1000:1
	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	ЗН
	Backlight Type	LED
	MTBF ( hrs )	15,000

Video	Digital	HDMI	HDMI 1.4, HDCP 1.4
Connectivity		DVI	DVI-D, TMDS single link
	Analog	VGA	Analog 0.7Vp-p
		Display Port	DP 1.0 / HDCP 1.3
		Composite (BNC)	NTSC & PAL
	Plug & Play	DVI / VGA	VESA EDID structure 1.3
	Synchronization	VGA	Separate, Composite & SOG

Power	Power Supply		Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption for	Screen ON	Max. 14W
	Single Console	Power saving mode	Max. 2W
		Power button OFF	Max. 1W
Power Consumption with KVM integration		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
	Environment	RoHS3 & REACH

Environmental	Operating	Temperature	0 to 55°C degree
Conditions		Humidity	20~90%, non-condensing
		Altitude	16,000 ft
	Storage /	Temperature	-20 to 60°C degree
	Non-operating	Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	10~300Hz 0.5G RMS random

Environmental Conditions	1 5	Temperature Humidity	0 to 55°C degree 20~90%, non-condensing
	Storage /	Altitude	16,000 ft
	Non-operating	Temperature	-20 to 60°C degree
	Non-operating	Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	10~300Hz 0.5G RMS random

Physical		LCD1U17-46
Specification	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	DVI-D / VGA Input	PC Signal	1020 v 1080 v 60H-
Format		r o Signai	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
	HDMI Input	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
	Display port 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
			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

\*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.

# < 2.2 > Standard Keyboard / Mouse Specifications

LCD1U17-46



keyboard integrated with touchpad

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[ <u></u>	1 2 3 PgDn 0 ·

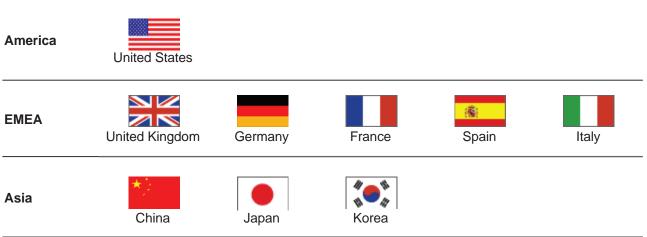
**B** keyboard integrated with trackball

	<b>0 0</b>
[、]]; ]]; ]]; ]]; ]]; ]]; ]]; ]]; ]]; ]];	Num Look / * - 7 8 9
	Home T PgUp + 4 5 8 +
	1 2 3 Bad ↓ PgDn 0 - Enter 0 Del



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**



# < 2.2 > MAC Keyboard / Mouse Options



MAC keyboard integrated with touchpad

Nun Capa Scal
7 8 9 4 5 6 4 5



# Mb MAC keyboard integrated with trackball

]	O O O
	dez / * -
	7 8 9 + 4 5 6 +
	1 2 3



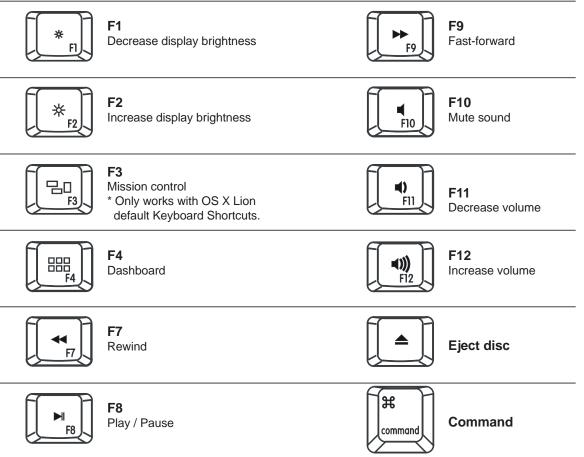
# Supporting layouts

America



# How to Use "MAC" Keyboard

# **Keyboard Features**



# < 2.2 > SUN Keyboard / Mouse Options

# LCD1U17-46

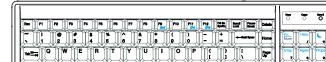
Page



SUN keyboard integrated with touchpad

	<u> </u>
	Stop Again Props
	Copy Cut Passe 1 2 9 Enter
	Front
<u>1. 11. 11. 11</u>	





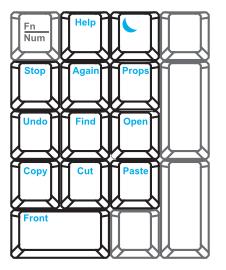
J



**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 "S" Keyboard

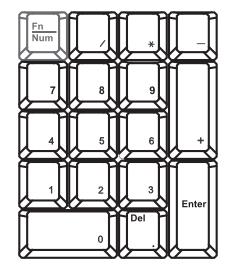


Num LED in Off mode Key pad behaves as a SUN Solar system administration command mode

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

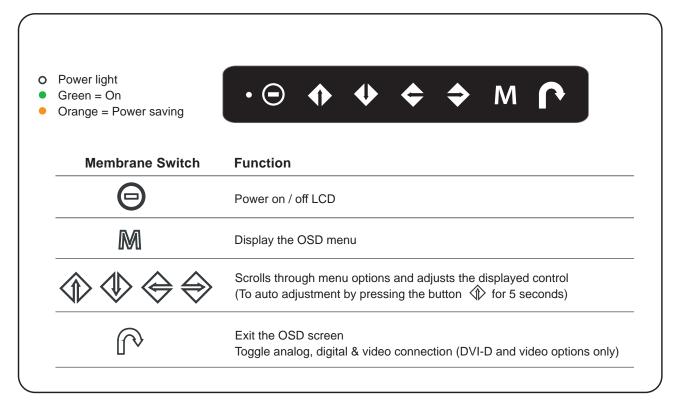


F12 Audio : Increase volume **Display : Increase contrast** 

Sb SUN keyboard integrated with trackball



# < 2.3 > On-screen Display Operation ( OSD )



# < 2.3 > On-screen Display Operation ( OSD )

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

# 3 Color

Color temperature	e: 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°

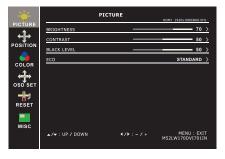
# **5** Reset

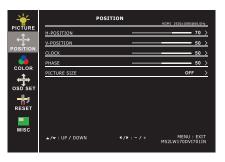
Reset : Return the adjustment back to factory setting

# 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					

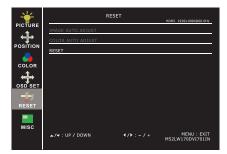
# LCD1U17-46





- <del>\</del>	COLOR	HDMI 1920x1080@60.0Hz	
PICTURE	COLOR TEMPERATURE	warm >	
++	SHARPNESS	48 >	
POSITION	HUE	50 >	
COLOR	SATURATION	50 >	
. 1.	DYNAMIC LUMINOUS CONTROL	OFF >	
OSD SET			
MISC			
	▲/ <del>▼</del> : UP / DOWN	: - / + MENU : EXIT M52LW170DVI701IN	

- <del>\</del>	OSD :	SET	HDMI 1920x1080#60.0Hz
PICTURE	LANGUAGE		
-+‡+	OSD H-POSITION		
POSITION	OSD V-POSITION		50 >
	OSD TIME OUT		100 >
COLOR	OSD TRANSPARENCY		<u> </u>
OSD SET	OSD ROTATION		OFF >
RESET			
MISC			
	▲/♥: UP / DOWN	<b>∢/</b> ▶ : = / +	MENU : EXIT M52LW170DVI701IN

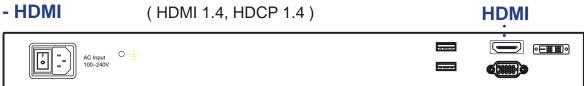


- <del>\</del>		MISC	HDMI 1920×1080@60.0	-1z
PICTURE	SIGNAL SOURCE		HDMI	>
- +}-	MUTE		OFF	>
POSITION	AUDIO IN		AUTO	>
- <b>-</b>	VOLUME		70	>
COLOR	SLEEP MODE		OFF	>
OSD SET				
RESET				
MISC				
	▲/▼ : UP / DOWN	<b>∢/</b> ▶ : = / +	MENU : EX M52LW170DVI7011	T N

# < Part 3 > < 3.1 > Video options : LCD1U17-46 DP Option - Display Port (DP 1.0, HDCP 1.3)

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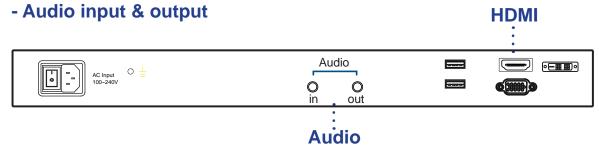
# **HDMI** Option



### BNC Option - Composite (BNC) AC Input IOD-240V C = BNC ···· ③ E

# **ADH Option**

- HDMI (HDMI 1.4, HDCP 1.4)



# < 3.2 > 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

# LCD1U17-46

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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.

(3) LCD1U17-46 chassis extension in depth to 510mm (20.1")

# < 4.2 > LCD1U17-46 KVM Integration

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

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

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

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

DD 45	IP	Remote	8-port	16-port
DB-15	1	1	-M83IP	-M163IP
Matrix KVM		I	-M84IP2	-M164IP2
	2	1	••••••	
	0	1	-M82	-M162
	0	2	-M83	-M163
	0	3	-M84	-M164
		:		
DB-15	IP	Remote	8-port	16-port
Combo KVM	1	0	-8KVM2IP	-16KVM2IP
	0	1	-8KVM2	-16KVM2
	0	0	-8KVM-u	-16KVM-u

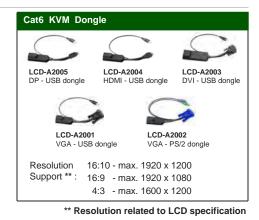
		** Resolutio	on related to LCD specification
2K KVM Cable			
	0	Resolution Support ** :	16:9 - max. 2560 x 1440 16:10 - max. 1920 x 1200
LCD-A3011 (6 ft) DVI-D KVM cable	LCD-A3012 ( 6 ft ) HDMI KVM cable		4:3 - max. 1600 x 1200

## 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)



DB-15 VGA USB KVM Cable			
+0	101	10.	
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			
Resolution related to LCD specification			

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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