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## User Manual 17" FHD 1080p LCD

## LCD1U17-018



1920 x 1080 native resolution



## LCD1U17-020



1920 x 1080 native resolution



Ultra short depth 400mm / 15.7"







#### **Legal Information**

First English printing, July 2023

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 littl e pressure as possible.

#### Cleaning Tough Marks and Smudges

To remove tough marks and smudges, please follow these steps:

- ① Disconnect the power cord.
- 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 > U17-018 / LCD1U17-020

#### < 1.1 > Package Content



#### LCD1U17-018 unit X 1

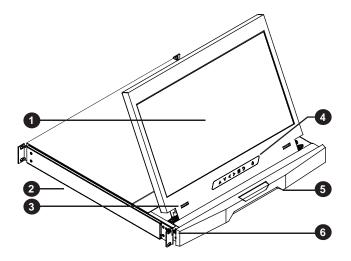
- 6ft VGA cable X 1
- Power cord X 1
- M6 screw, cage nut & cup washer X8



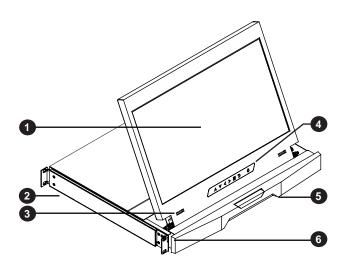
#### LCD1U17-020 unit X 1

- 6ft VGA cable X 1
- 2.5A Power adapter & Power cord X 1
- M6 screw, cage nut & cup washer X8

#### < 1.2 > Structure Diagram



- 1 LCD panel
- 2 Installation Slide
- 3 Audio speaker (optional)
- (5) Carry handle to release the 2-pt lock
- 6 2-point lock



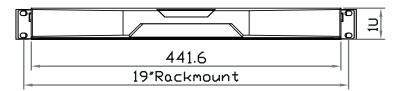
- 1 LCD panel
- 2 Installation Slide
- 3 Audio speaker (optional)



- 5 Carry handle to release the 2-pt lock
- 6 2-point lock

#### < 1.2 > Dimension - LCD1U17-018

#### **Front View**

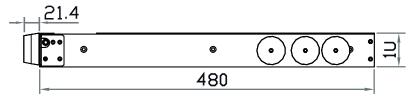


#### **Rear View**

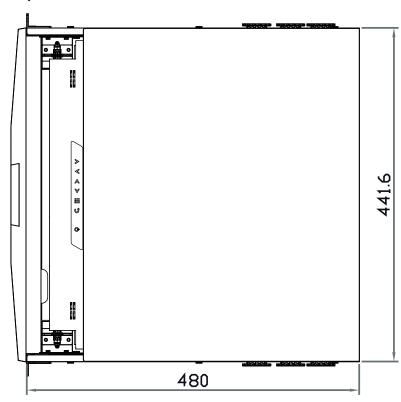


UNIT: mm 1mm = 0.03937 inch

#### **Side View**



#### **Top View**



Model	Product Dimension (W x D x H)	Net Weight
LCD1U17-018	441.6 x 460 x 44 mm 17.4 x 18.1 x 1.73 inch	11 kg 24.2 lb



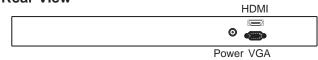
The weight is only for the pure models. It varies with accessories & options such as SDI, DVI-D, audio, touchscreen & DC power.

## < 1.2 > Dimension - LCD1U17-020

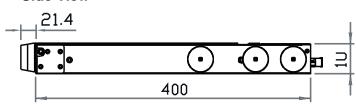
#### **Front View**



#### **Rear View**

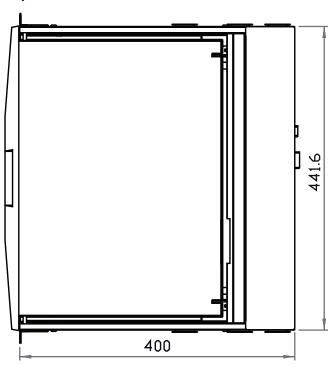


#### **Side View**



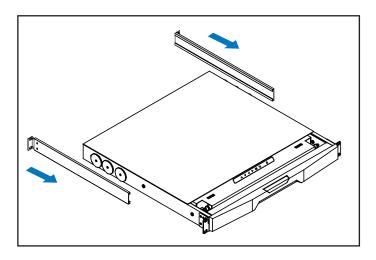
## $\begin{array}{c} \text{UNIT: mm} \\ \text{1mm} = 0.03937 \text{ inch} \end{array}$

#### **Top View**



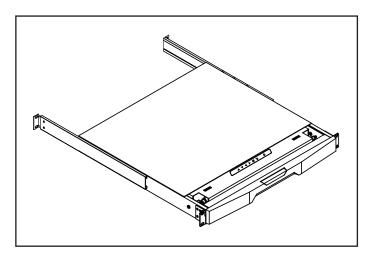
Model	Product Dimension (W x D x H)	Net Weight	
LCD1U17-020	441.6 x 400 x 44 mm 17.4 x 15.7 x 1.73 inch	8.7 kg 19.1 lb	

## < 1.3 > Installation - How to install Installation Slides



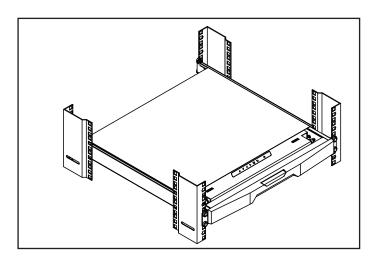
## Step 1

■ Insert the left and right rear mounting brackets into the display drawer.



## Step 2

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



## Step 3

#### Complete the installation

Fix the display drawer into the rack.



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



#### After use the drawer

Basically, user can push in the drawer back to park position by releasing the left & right slide lock arrow (as long as the drawer starts moving, he/she can release their finger right away, holding the arrow is not necessary).

## < Part 2 > Specifications / OSD

## < 2.1 > Product Specifications

LCD Panel	Panel Size ( diagonal )	17.3-inch W	idescreen TFT color LCD	
ranei	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		glare, Hard-coating	
	Surface hardness	7 414 5	3H	
	Backlight Type		LED	
	MTBF ( hrs )		15,000	
/ideo	Digital	1		
Connectivity	Digital	HDMI	HDMI 1.4, HDCP 1.4	
, , , , , , , , , , , , , , , , , , , ,		DVI Disales Part	DVI-D, TMDS single link	
	Analog	Display Port VGA	DP 1.0 / HDCP 1.3	
	Analog		Analog 0.7Vp-p  NTSC & PAL	
	Plug & Play	Composite ( BNC ) DVI / VGA	VESA EDID structure 1.3	
	Synchronization	VGA	Separate, Composite & SOC	
	Synchronization	IVGA	Separate, Composite & 300	
Audio	Audio Input	Connector	2 Emm stores isok	
Connectivity	Addio Input	Impedance / Power lev	3.5mm stereo jack el 30kΩ / 750mV	
	Audio Output	Connector	3.5mm stereo jack	
	·	Resistance / Power lev	<del></del>	
	Speaker	Dual Stereo Speaker	2W x 2	
When the audio output is	connected, speaker output is OFF			
Power	Power Supply	Range	Auto-sensing 100 to 240VAC 50 / 60Hz	
	Power Consumption	Screen ON	Max. 14W	
		Power saving mode	Max. 2W	
		Power button OFF	Max. 1W	
		,	'	
Compliance	EMC	FCC & CE		
	Safety	CE / LVD & UKCA		
	Environmental	RoHS3 & REACH / WEEE		
		'		
<b>Environmental</b>	Operating	Temperature	0 to 55°C degree	
Conditions		Humidity	10~90%, non-condensing	
		Altitude	16,000 ft	
	Storage / Non-operating	Temperature	-20 to 60°C degree	
	Storage / Non-operating	Temperature Humidity	5~90%, non-condensing	
	Storage / Non-operating	Temperature Humidity Altitude	5~90%, non-condensing 40,000 ft	
	Storage / Non-operating	Temperature Humidity	5~90%, non-condensing	

Physical		LCD1U1-018	LCD1U17-020
Specification	Product (WxDxH)	441.6 x 480 x 44 mm	442 x 400 x 44 mm
		17.4 x 18.9 x 1.73 inch	17.4 x 15.7 x 1.73 inch
	Net Weight	11 kg / 24.2 lb	8.7 kg / 19.1 lb

<sup>\*</sup> 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	BVI B / V G/( III pat	1 O Oigilai	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 Cianol	<del></del>
	HDMI Input	Audio Signal	2ch Linear PCM
	пымі прас	PC Signal HDMI 1.4	Same as VGA
		INDIVII 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

#### < 2.2 > On-screen Display Operation (OSD)



Membrane Switch	Function
<b>&amp;</b>	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** 🕲 ).
- (3) 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.

## < 2.2 > On-screen Display Operation ( OSD )

#### 1) Picture

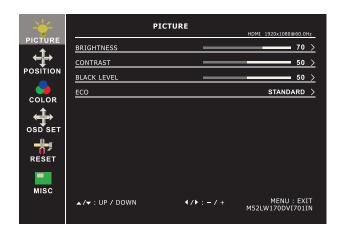
Brightness: Adjust the screen brightness

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

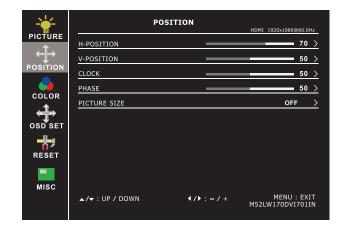


#### (2) Position

H-Position : To adjust the horizontal position of the videoV-Position : To adjust the vertical position of the videoClock : 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: User / Warm / Cool / 5400k mode and

Red / Green / Blue color balance

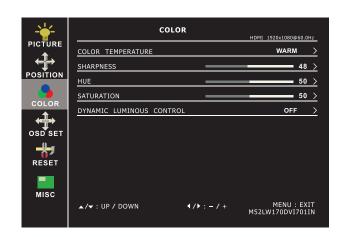
Sharpness : Adjust the image from weak to sharp

Hue : Adjust the screen hue value

Saturation : Adjust the saturation of the image color

Dynamic

luminous control : Control the dynamic brightness



#### < 2.2 > On-screen Display Operation (OSD)

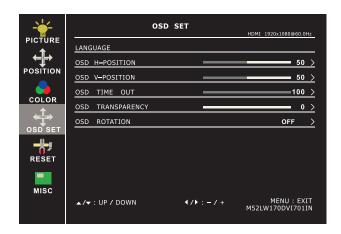
#### (4) OSD Set

Language : Select the language in which the OSD menu is

displayed - English

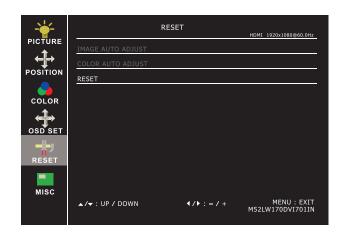
OSD H-Position : Align the screen image left or right
OSD V-Position : Align the screen image up or down

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

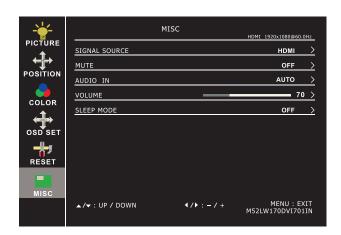
Mute : Turn off the surrounding sound

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 > Options

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

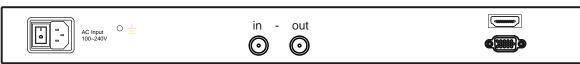


Our SDI input is an ideal solution for the broadcast-grade video and high resolution CCTV market.

Designed for use with CyberView displays, a SDI input module can support up to 1080p @60Hz resolution without using additional space or power.

\* SDI option comes with speakers.

## **SDI** LCD1U17-018



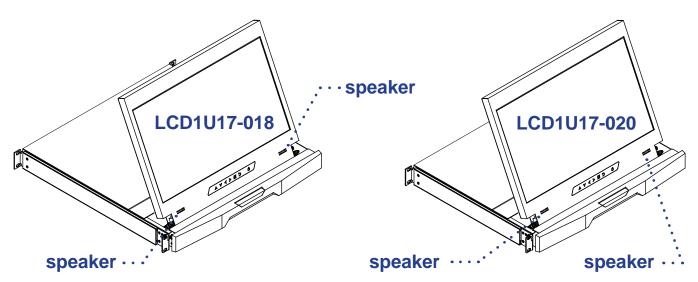
## LCD1U17-020 SDI



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 chronized	/ 20 / 24 bit, 2 CH, Synchronized / Asyn- Video	
Max. Transmission Distance	3G-SDI	150m at 2.	.97Gb/s	
75 ohm coaxial cable	HD-SDI	250m at 1.485Gb/s		

## < 3.2 > Options : Speaker, DP, DVI-D, BNC

## **Speaker Option**



#### **DP Option**

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

# LCD1U17-018 DP ... DP ...

## LCD1U17-020

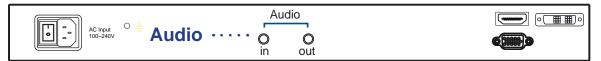


#### < 3.2 > Display port, HDMI, BNC, Audio

#### **DVI-D Option**

- DVI-D ( DVI-D, TMDS single link )
- Audio input & output \*LCD1U17-018 only
- Speaker

#### LCD1U17-018



#### LCD1U17-020



### **BNC Option**

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

  BNC Audio IN

  LCD1U17-018

  AC Input 100-240V



## < 3.3 > Options : Touchscreen & driver



#### **Projected Capacitive 10-pt Touch screen Specification**

	LCD1U17-018 / LCD1U17-020		
Model	TPC Multi-touch		
Technology	Projected Capacitive		
Touch Point	10		
Input Type	Finger or Capacitive Stylus		
Resolution	4096 x 4096		
Touch Point Accuracy	± 2 mm		
Response Speed	< 5 ms		
Activation Force	< 5 g		
Surface Hardness	6H		
Light Transmission	> 85%		
Haze	3%↓		
Durability	50 million touches		
Top Layer	1.8 mm Glass		
Bottom Layer	0.7 mm Sensor Glass		
Thickness	2.7 ± 0.1 mm		
Connector	USB		
Compatibility	Linux / Android / Windows / Mac		

#### **Resistive 1-pt Touchscreen Specification**

Model	LCD1U17-018 / LCD1U17-020			
	TRB Resistive			
Technology	5-Wire Resistive			
Touch Point	Single			
Method	Stylus or Finger			
Activation Force	≤ 50g / Stylus=R0.8			
Durability	10 million touches			
Response Time	15 ms			
Optical Transmittance	80% ± 3%			
Surface Hardness	3H			
Haze	8% ± 3%			
Glass	2.2 ±0.2 mm			
Connector	USB Type A			
Compatibility	Windows 7 / XP / Vista, Linux			

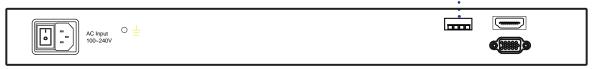
- LCD1U17-018 Dimension will be changed if touchscreen required
- USB touchscreen package includes 1 x 6ft USB cable, quick reference guideline and CD disc
- For detailed information, please refer to the attached CD disc
- As the touchscreen unit is not made of toughened glass, please handle it carefully

#### < 3.3 > Options : Touchscreen & driver



#### LCD1U17-018

#### **USB Touchscreen**



## LCD1U17-020 USB Touchscreen

#### **TPC** Driver



Connect the USB cable from the USB port on the LCD to a computer. The touch screen supports easy Plug-and-Play operations. There is no need to install additional drivers on the computer.

#### **TRB Driver**

#### Please follow the below steps to setup the touch screen:-

- **Step 1.** Run the bundled CD disc or download the driver from the link below : https://www.rackmountmart.com/downloads.html
- Step 2. Double click the Setup.exe
- Step 3. Follow the installation instruction to finish the setup
- Step 4. After installation, run the TouchKit program & the "4 point calibration"



Please do the initial calibration after the first setup



## < 3.4 > Options : DC Power



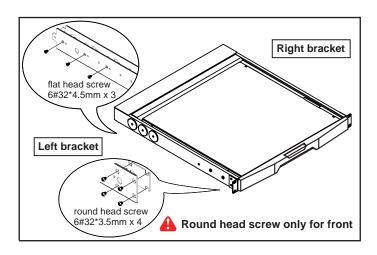
Model	12V	24V	48V	125V	250V
Input rating					
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt	300-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V	180 ~ 425V
Input current					
- No load	50 mA	50 mA	50 mA	35 mA	10 mA
- Full load	4950 mA	2450 mA	1220 mA	749 mA	600 mA
Output rating					
Output voltage:	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.
  - (3) LCD1U17-018 Dimension will be changed if DC power required

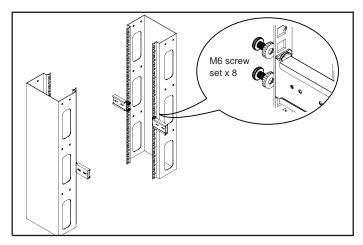
#### < 3.6 > LCD1U17-020 Options : 2-Post Rack Mounting Brackets



## Step 1

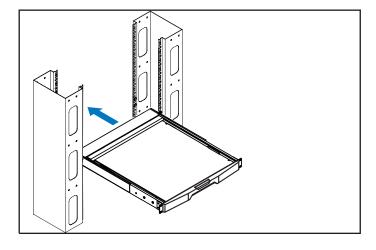
- Before apply 2-post rack brackets, please release front mounting ears and rear mounting wheels.
- Attach left and right mounting brackets to the drawer with the screws below :

6#32\*3.5 mm screw x 8 (only for front) 6#32\*4.5 mm screw x 6 (only for rear)



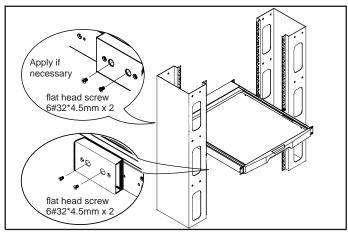
## Step 2

- Attach the set of 4 mini brackets to the 2-post rack.
- M6 screw set is not provided.



## Step 3

■ Insert the drawer into the mini brackets.



## Step 4

- Fix the LCD console drawer to the mini brackets with 6#32\*4.5 mm screw x 8.
- Installation completed



This step is necessary for front.
Failure to complete this will cause damage.

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