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User Manual 21.5" High Brightness FHD LCD 1000 cd/m²



LCDR8U21-04

8U Rackmount Display Panel



Options:

- SDI / MCS
- DVI-D / DP / Audio
- Touchscreen / DC power
- MIL-type or lockable connector



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 little pressure as possible.

Cleaning Tough Marks and Smudges

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

- ① Disconnect the power cord.
- 2 Spray a small amount of non-abrasive cleanser on a microfiber cloth.
- Caution: Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.
- Gently wipe the surface. Use as little pressure as possible.
- 4 Wait until your monitor is completely dry before plugging it in and powering it up.

< Part 1 >

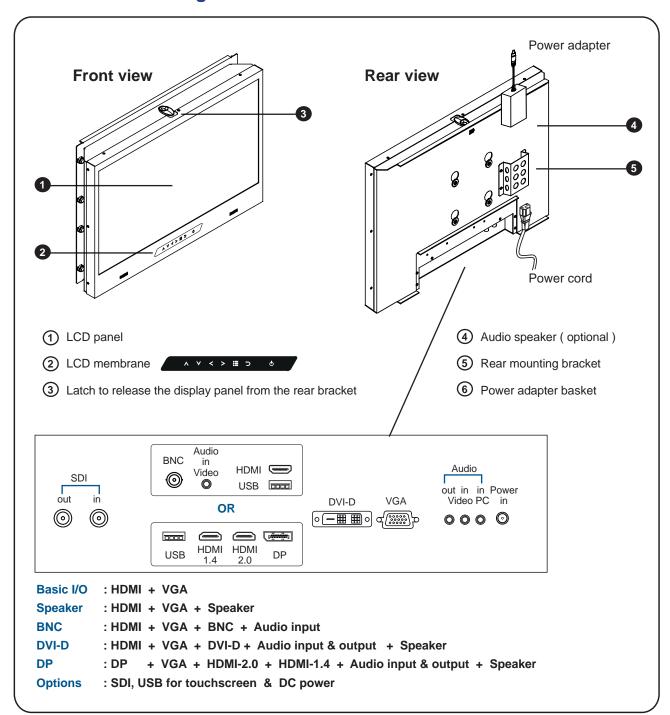
< 1.1 > Package Content



LCDR8U21-04 unit X 1

- 6ft VGA cable X1
- Power adapter X 1
- Power cord X 1
- Fastener screw for rear bracket x 2

< 1.2 > Structure Diagram

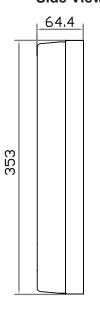


< 1.2 > Dimension

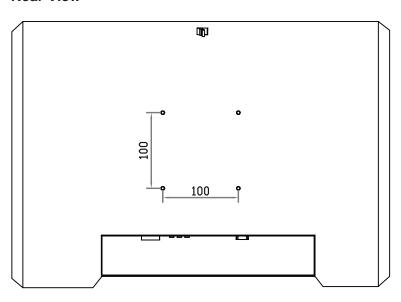
Front View

477,5 477,5 501,9 507,9

Side View

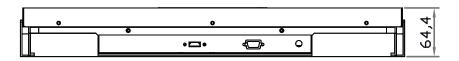


Rear View



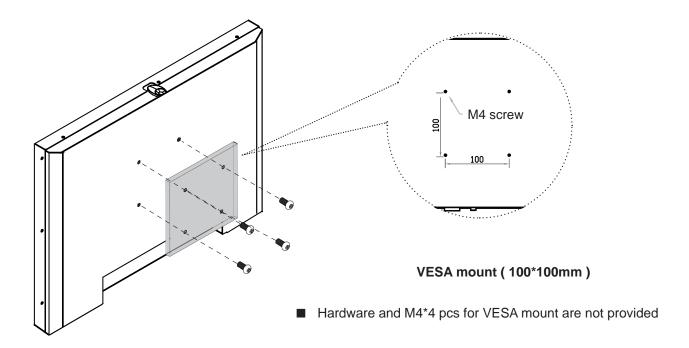
UNIT : mm 1mm = 0.03937 inch

Bottom View

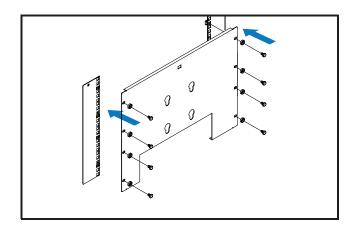


Model	Product Dimension (W x D x H)	Net Weight
LCDR8U21-04	501.9 x 64 x 353 mm 19.8 x 2.5 x 13.9 inch	8.8 kg 19.4 lb

< 1.3 > VESA mount Installation



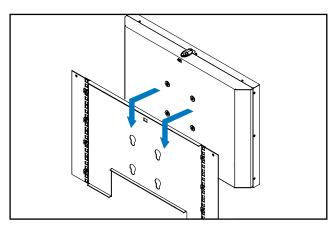
< 1.3 > Rear Mounting Bracket Installation



Step 1

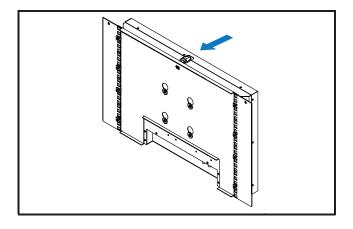
- Mount the rear bracket with M6 screw set.
- 8 x M6 screw set are required.

M6 screw sets are not provided.



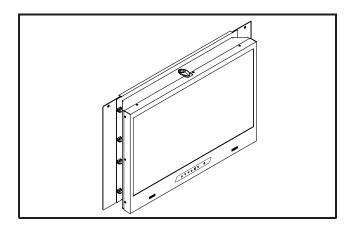
Step 2

■ Insert the LCDR8U21-04 display panel into the rear bracket.



Step 3

■ Fix the unit to the bracket with the top latch.



Step 4
Complete the installation

< Part 2 >

< 2.1 > Product Specifications

LCD	Panel Size (diagonal)	21.5-inch Widescreen TFT color LCD
Panel	Display pixel (dots x lines)	1920 x 1080
	Brightness (typ.)	1000
	Contrast Ratio (typ.)	5000:1
	Color	16.7 M
	Viewing Angle (L/R/U/D)	89/89/89
	Response Time (ms)	16
	Dot pitch (mm)	0.248
	Display Area (mm)	476.64H x 268.11V
	Surface treatment	Anti-glare
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	50,000

Video Connectivity	Digital	HDMI	HDMI 1.4, HDCP 1.4
Connectivity			HDMI 2.0 / HDCP 2.2
		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

Audio Input		Connector	3.5mm stereo jack
Connectivity		Impedance / Power level	30kΩ / 750mV
	Audio Output	Connector	3.5mm stereo jack
		Resistance / Power level	30kΩ / 2.8V
	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. 32W
		Power saving mode	Max. 2W
		Power button OFF	Max. 1W

Compliance	EMC	FCC & CE
	Safety	CE / LVD & UKCA
	Environmental	RoHS3 & REACH / WEEE

Environmental	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
		Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	10~300Hz 0.5G RMS random

Physical Specification	Product (WxDxH)	501.9 x 64 x 353 mm 19.8 x 2.5 x 13.9 inch
	Net Weight	8.8 kg / 19.4 lb

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

Format 1360 x 768 x 60Hz 1280 x 1024 x 60 / 75Hz 1280 x 768 x 60Hz 1280 x 768 x 60 / 75Hz 1280 x 768 x 60 / 75Hz 1152 x 864 x 75Hz 1024 x 768 x 60 / 70 / 75Hz 848 x 480 x 60Hz 800 x 600 x 60 / 72 / 75Hz 720 x 400 x 70Hz 640 x 480 x 60 / 72 / 75Hz 640 x 480 x 60 / 72 / 75Hz 640 x 480 x 60 / 72 / 75Hz 640 x 350 x 70Hz 640 x 350	Applicable	DVI-D / VGA Input	PC Signal	1920 x 1080 x 60Hz
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720 x 400 x 70Hz				1024 x 768 x 60 / 70 / 75Hz
				800 x 600 x 60 / 72 / 75Hz
640 x 480 x 60 / 72 / 75Hz				720 x 400 x 70Hz
				640 x 480 x 60 / 72 / 75Hz
Audio Signal 2ch Linear PCM			Audio Signal	2ch Linear PCM

< 2.2 > On-screen Display Operation (OSD)



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

Remark : All LED touch buttons in WHITE light.

The LED of $\textbf{Power} \ \textcircled{\scriptsize b}$ 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 \bigcirc to call up the on-screen video mode on top right corner.
 - (b) Use up/down arrow $\ \ \, \bigwedge \ \ \bigvee \ \$ to the select the video input

< 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

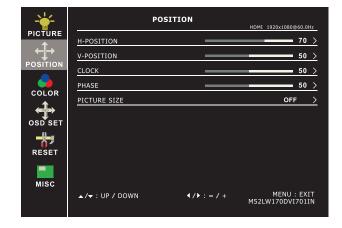


(2) Position

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

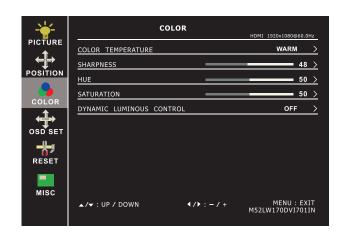
Sharpness : Adjust the image from weak to sharp

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)

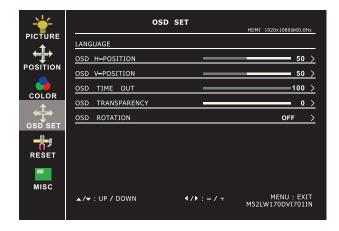
(4) OSD Set

Language : Select the language in which the OSD menu is

displayed - English

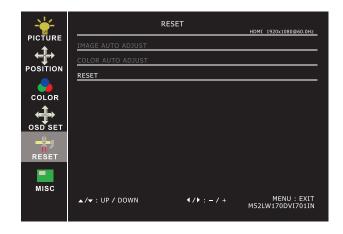
OSD H-Position : Align the screen image left or right
OSD V-Position : Align the screen image up or down

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

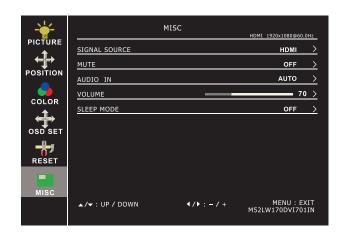
Mute : Turn off the surrounding sound

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



< 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 / Asyn-
		chronized Video

Max. Transmission Distance 75 ohm coaxial cable	3G-SDI	150m at 2.97Gb/s
75 Offiti Coaxiai Cable	HD-SDI	250m at 1.485Gb/s
	SD-SDI	480m at 270Mb/s

< 3.2 > Options : MC (Multi-display Control)



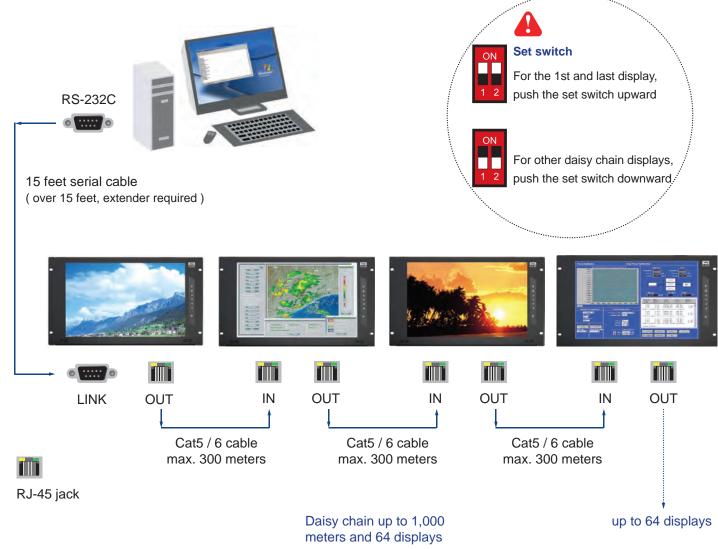
More control is always good. Especially when it is necessary and easy. Synergy Global Technology provides MC solution to control the OSD of various Industrial LCD displays up to 64 units.

The RS-232C is used for the communication between the PC and the Prst display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

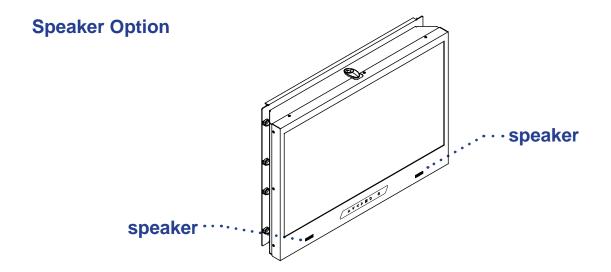
Designed for use with our Industrial LCD displays, we provide a MC input module without using additional space or power.



- *** Please download the protocol of MC control at : https://www.rackmountmart.com/downloads.html
- *** For **MC** option, casing depth will be changed.

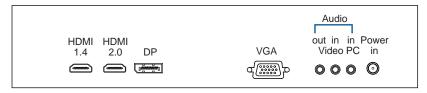


< 3.3 > Options : Speaker, DP, DVI-D, BNC



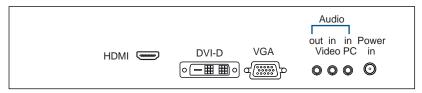
DP Option

- Display Port (DP 1.0, HDCP 1.3
- **HDMI 2.0** (HDMI 2.0, HDCP 2.2)
- **HDMI 1.4** (HDMI 1.4, HDCP 1.4)
- Audio (Audio input & output)
- Speaker



DVI-D Option

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



BNC Option

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



< 3.4 > Options : Touchscreen & driver



Projected Capacitive 10-pt Touch screen Specification

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	1.1 mm Glass		
Bottom Layer	0.7 mm Sensor Glass		
Thickness	2 mm		
Connector	USB		
Compatibility	Linux / Android / Windows / Mac		

Resistive 1-pt / Capacitive 1-pt Touchscreen Specification

Model	TRB Resistive	TCB Capacitive	
Technology	5-Wire Resistive	Capacitive	
Touch Point	Single	Single	
Method	Stylus or Finger	Finger	
Activation Force	≤ 50g / Stylus=R0.8	≤ 50g	
Durability	10 million touches	300 million touches	
Response Time	15 ms	20 ms	
Optical Transmittance	80% ± 3%	87% ±2%	
Surface Hardness	3H	9H	
Haze	8% ± 3%	7%	
Glass	3.2 ±0.2 mm	2.8 mm ±10%	
Connector	USB Type A		
Compatibility	Windows 7 / XP / Vista, Linux		

- 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

< 3.4 > Options : Touchscreen & driver





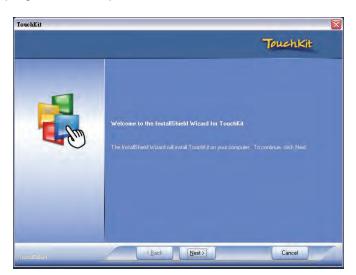
TRB & TCB Driver

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



< 3.5 > 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%

*** For DC power option :

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



< 3.6 > Options : MIL-type or Lockable Connector

	Input	Part no.	MIL Standard
MIL - type Connector	DC Power *** (Male)	MS3470W8-33P	MIL - DTL - 26482
	VGA *** (Male)	MS3470W14-15P	MIL - DTL - 26482

^{***} There are several additional MIL DC and VGA connector types with varying design characteristics to meet cost considerations and to provide users with the most design ßexibility possible. For more information, please contact us.

	Input	Part no.	Standard
Lockable Connector	DC Power (Male)	YM-Ext-461CP001	D-type 3W3
	USB	LUSB - A111 - 00	-

^{***} MIL - type or Lockable connectors above can be integrated with our LCD displays. Sale service just for connectors not provided.

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