



Toll Free: 1-888-865-6888

Tel: 510-226-8368 Fax: 510-226-8968

Email: [sales@RackmountMart.com](mailto:sales@RackmountMart.com)

# User Manual 17" FHD 1080p LCD

**LCD1U17-50** 1920 x 1080 native resolution

**1U Dual Slide Ultra Short Depth**

**LCD Console Drawer**



**Options :**  
- SDI  
- DC power

Ultra short depth  
480mm / 18.9"



## Legal Information

First English printing, March 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.

# Contents

## < Part. 1 > LCD1U17-50

1.1	Package Content	P.1
1.2	Structure Diagram & Dimension	P.1
1.3	Installation	P.3
1.4	Connection	P.6

## < Part. 2 > Specifications / OSD

2.1	Product Specifications	P.8
2.2	Keyboard / Mouse Specifications	P.10
2.3	Video connectivity	P.12
2.4	On-screen Display Operation ( OSD )	P.13

## < Part. 3 > Options

3.1	3G / HD / SD-SDI Broadcast-grade input	P.15
3.2	DC Power : 12V / 24V / 48V / 125V / 250V	P.16

## Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

## Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

## How To Clean Your LCD Monitor



### Caution :

- To avoid the risk of electric shock, make sure your hands are dry before unplugging your monitor from or plugging your monitor into an electrical outlet.
- When you clean your monitor, do not press down on the LCD screen. Pressing down on the screen can scratch or damage your display. Pressure damage is not covered under warranty.
- Use only cleansers made specifically for cleaning monitors and monitor screens. Cleansers not made to clean monitors and monitor screens can scratch the LCD display or strip off the finish.
- Do not spray any kind of liquid directly onto the screen or case of your monitor. Spraying liquids directly onto the screen or case can cause damage which is not covered under warranty.
- Do not use paper towels or abrasive pads to clean your monitor. Using an abrasive pad or any wood based paper product such as paper towels can scratch your LCD screen.

## Cleaning Your Monitor

To clean your LCD safely, please follow these steps :

- ① Disconnect the power cord.
- ② Gently wipe the surface using a clean, dry microfiber cloth. Use as little pressure as possible.

## Cleaning Tough Marks and Smudges

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

- ① Disconnect the power cord.
- ② Spray a small amount of non-abrasive cleanser on a microfiber cloth.



**Caution : Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.**

- ③ Gently wipe the surface. Use as little pressure as possible.
- ④ Wait until your monitor is completely dry before plugging it in and powering it up.

## < Part 1 >

### < 1.1 > Package Content



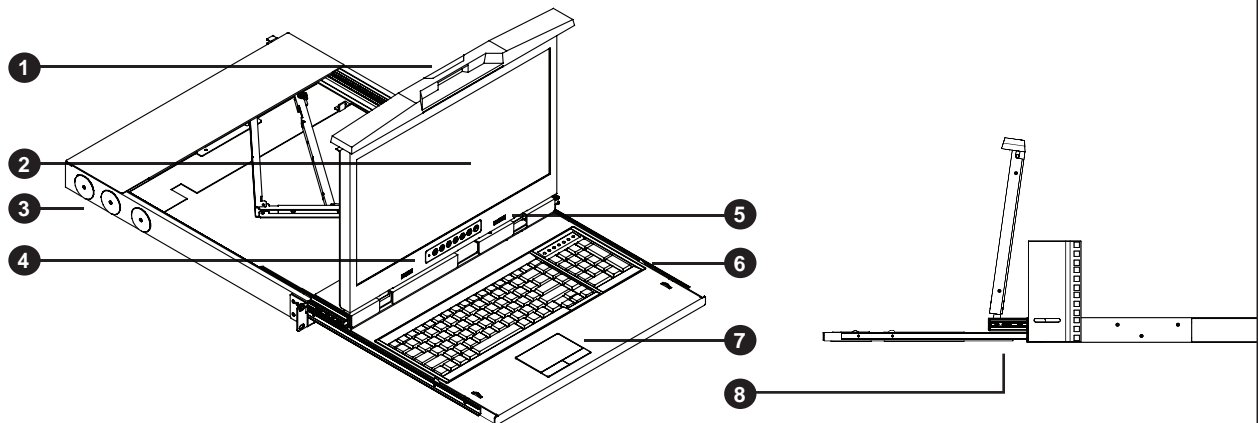
#### LCD1U17-50 unit X 1

- 6ft HDMI cable X 1
- 6ft USB cable X 2
- 4A power adapter & Power cord X 1
- M6 screw, cage nut & cup washer X 8



The above package content is only for the single console models.  
It varies with DC power option.

### < 1.2 > Structure Diagram



① Carry handle to release the 2-pt lock

② LCD interchangeable module kit

③ Installation Slides

④ LCD membrane



⑤ Audio speaker ( for HDMI, DP & SDI option )

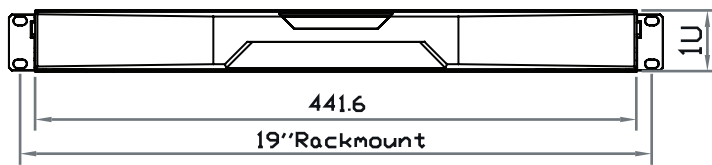
⑥ Keyboard interchangeable module kit

⑦ Touchpad mouse module

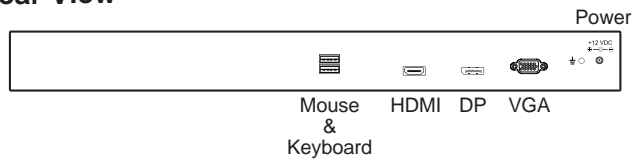
⑧ 1U dual slide for LCD console drawer

## < 1.2 > Dimension

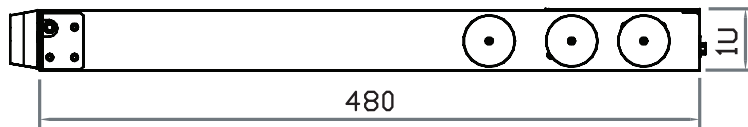
Front View



Rear View

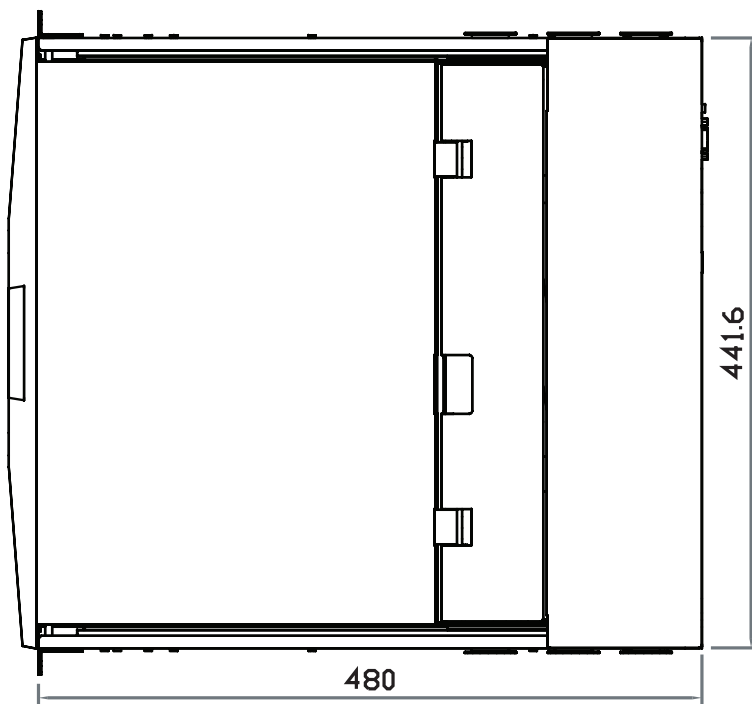


Side View



UNIT : mm  
1mm = 0.03937 inch

Top View

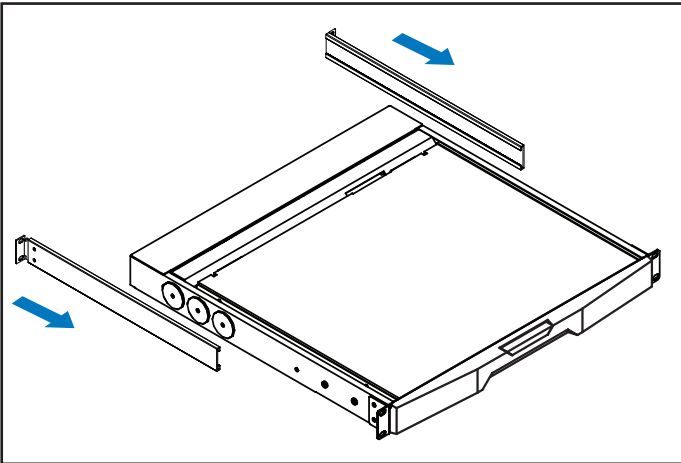


Model	Product Dimension (W x D x H)	Net Weight
LCD1U17-50	441.6 x 480 x 44.5 mm 17.4 x 18.9 x 1.75 inch	10.6 kg 23.4 lb

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

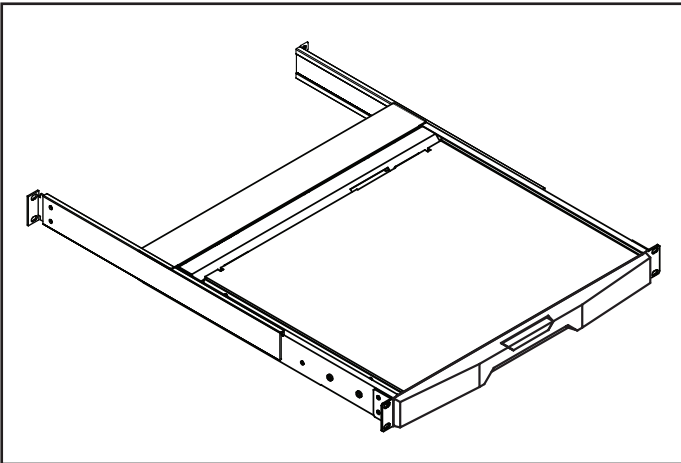
### Step 1

- 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.



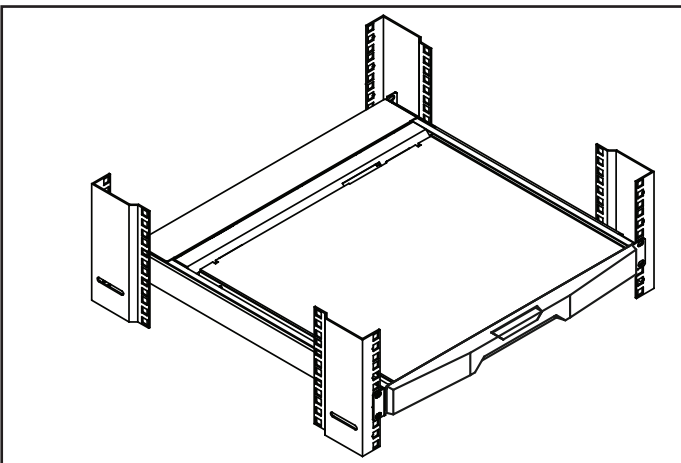
### Step 3

#### Complete the installation

- Fix the LCD console drawer into the rack.



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

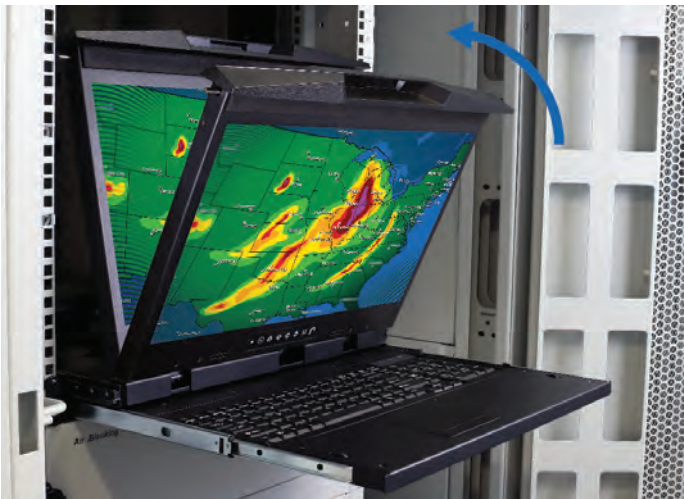




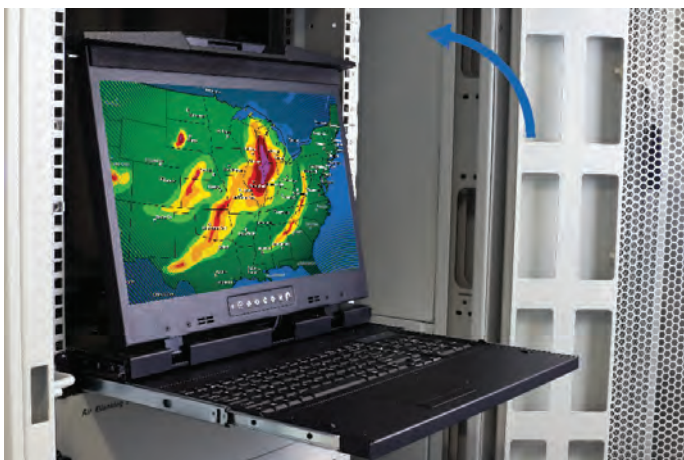
## < 1.3 > Installation - How to Use the Dual Slides



- 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.

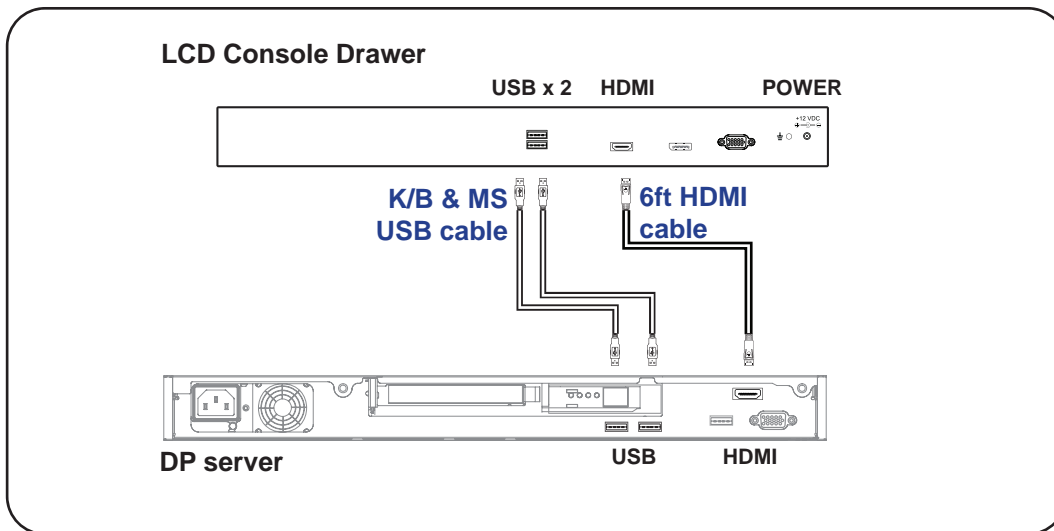


- Press the handle button and gently push back the drawer into the rack.

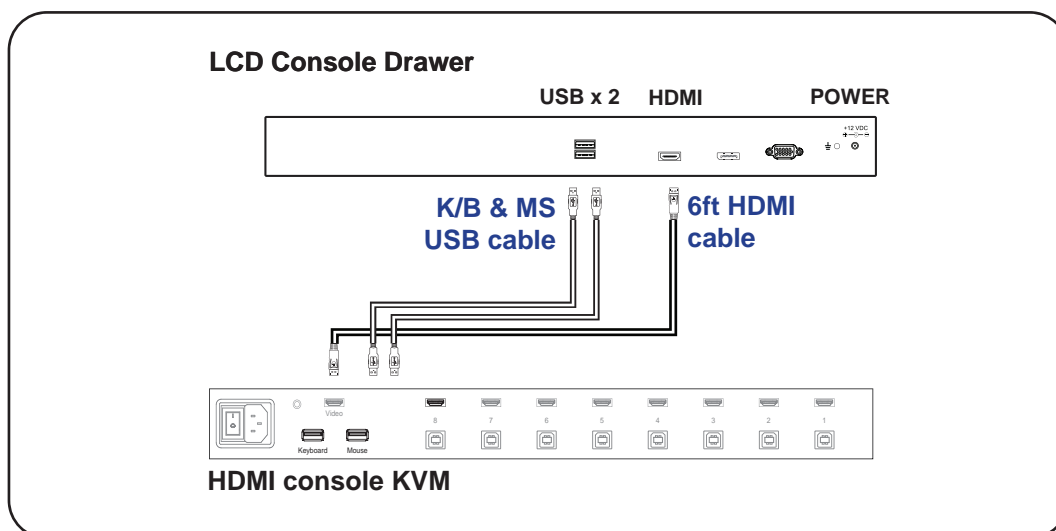


- Return the LCD console drawer to park position.

## < 1.4 > Connection to **HDMI Server**



## < 1.4 > Connection to **external KVM**



**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

<b>LCD Panel</b>	Panel Size ( diagonal )	17.3-inch Widescreen TFT color LCD
	Display pixel ( dots x lines )	1920 x 1080
	Brightness ( typ. )	300
	Contrast Ratio ( typ. )	1000:1
	Color	16.7 M, 8-bit
	Viewing Angle ( L/R/U/D )	85/85/85/85
	Response Time ( ms )	25
	Dot pitch ( mm )	0.1989
	Display Area ( mm )	381.888H x 214.812V
	Surface treatment	Anti-glare, Hard-coating
	Surface hardness	3H
	Backlight Type	LED
MTBF ( hrs )	15,000	

<b>Video Connectivity</b>	Digital	HDMI	HDMI 1.4, HDCP 1.4
		DVI	DVI-D, TMDS single link
		Display Port	DP 1.2 / HDCP 1.3
	Analog	VGA	Analog 0.7Vp-p
	Plug & Play	DVI / VGA	VESA EDID structure 1.3
	Synchronization	VGA	Separate, Composite & SOG

<b>Power</b>	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption for Single Console	Screen ON	Max. 14W
		Power saving mode	Max. 2W
		Power button OFF	Max. 1W
	Power Consumption with KVM integration	Screen ON	Max. 45W
		Power saving mode	Max. 34W

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

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

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

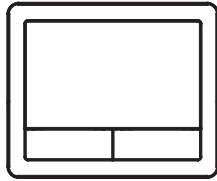
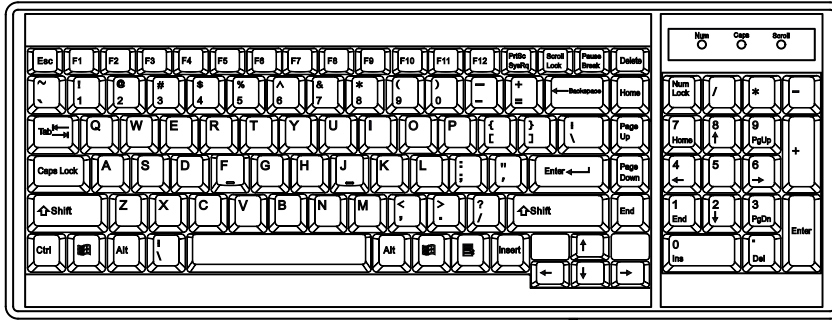
<b>Physical Specification</b>	Product ( W x D x H )	441.6 x 480 x 44.5 mm 17.4 x 18.9 x 1.75 inch
	Net Weight	10.6 kg / 23.4 lb

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

<b>Applicable Format</b>	VGA Input	PC Signal	1920 x 1080 x 60Hz
			1680 x 1050 x 60Hz
			1440 x 900 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60Hz
			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		
	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 )		
	Display port Input	PC Signal	2ch Linear PCM
			1920 x 1080 x 60Hz
			1680 x 1050 x 60Hz
1440 x 900 x 60Hz			
1360 x 768 x 60Hz			
1280 x 1024 x 60Hz			
1280 x 768 x 60Hz			
1280 x 720 x 60Hz			
1152 x 864 x 60Hz			
1024 x 768 x 60Hz			
800 x 600 x 60Hz			
640 x 480 x 60Hz			
Audio Signal		2ch Linear PCM	

## < 2.2 > Keyboard / Mouse Specifications

**N** keyboard integrated with touchpad



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

### Supporting layouts

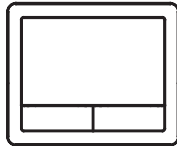
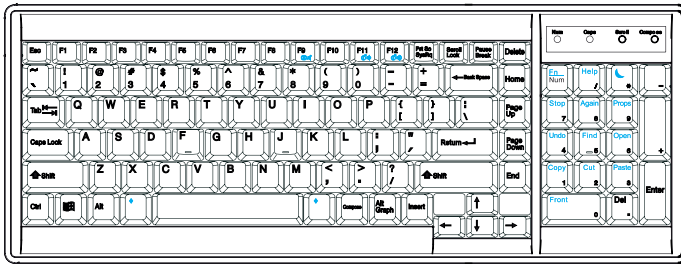
America   
United States

EMEA        
United Kingdom    Germany    France    Russia    Spain    Italy

Asia    
Japan    Korea

## < 2.2 > SUN Keyboard / Mouse Options

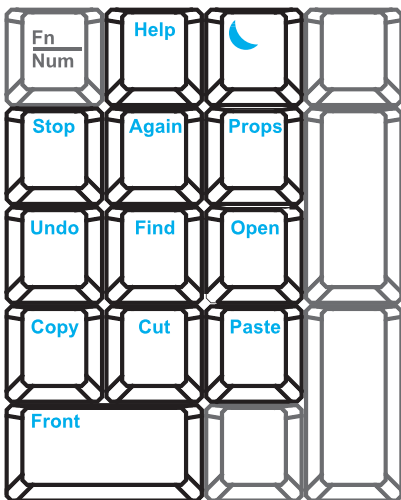
**Sn** SUN keyboard integrated with touchpad



### SUN keyboard integrated with touchpad / trackball **SOLARIS**

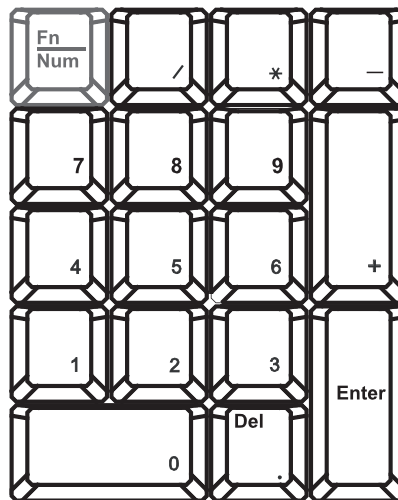
- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface
- US layout only

### How to Use "SUN" Keyboard



#### Num LED in Off mode

Key pad behaves as a SUN Solar system administration command mode

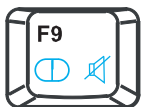


#### Num LED in Green mode

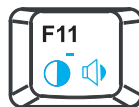
Key pad behaves as a normal key pad mode

### Audio / Display Keys

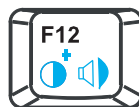
\* Please ask your supplier for full details



**F9**  
Audio : Mute  
Display : Degauss

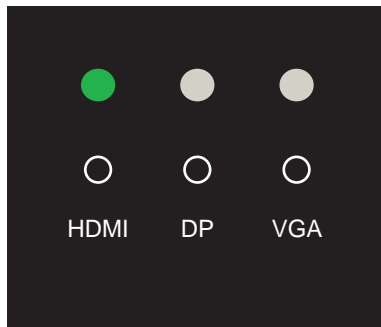


**F11**  
Audio : Decrease volume  
Display : Decrease contrast



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

## < 2.3 > Video connectivity



### LED light

- No light = OFF
- Green = ON / Connected
- Red = Disconnected


..... Video selection button






- HDMI LED will be ON after power ON (Default video input = HDMI)
- Select VGA or DP video input by pressing the desired video selection button
- LED light will be **Green** if the video signal is selected ; others will be OFF
- LED light will be **Red** if no video signal input
- To auto adjust under VGA mode, by pressing the VGA button 3 ~ 5 seconds to confirm



## < 2.4 > On-screen Display Operation ( OSD )

- Power light
- Green = On
- Orange = Power saving



Membrane Switch	Function
	Power on / off LCD
	Display the OSD menu
	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button  for 5 seconds)
	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)

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

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

( b ) Use up/down arrow   to the select the video input

( c ) Press the button  to confirm the selection

### ① Picture

Brightness : Adjust the screen brightness

Contrast : Adjust the difference between the image background ( black level ) and the foreground ( white level )

Black level : Adjust background black level of the screen

Eco : Screen in power saving mode



### ② Position

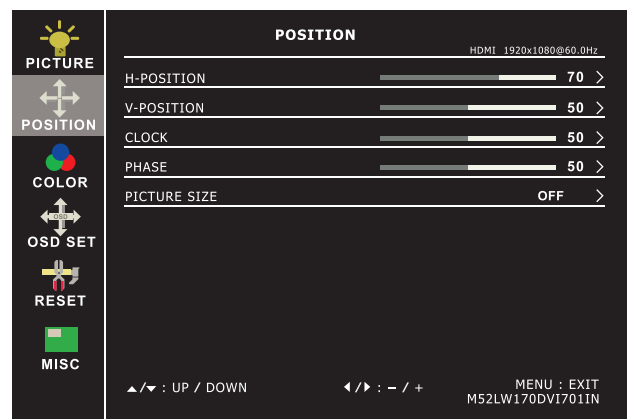
H-Position : To adjust the horizontal position of the video

V-Position : To adjust the vertical position of the video

Clock : To auto adjust H. Size of the screen

Phase : To fine tune the screen.

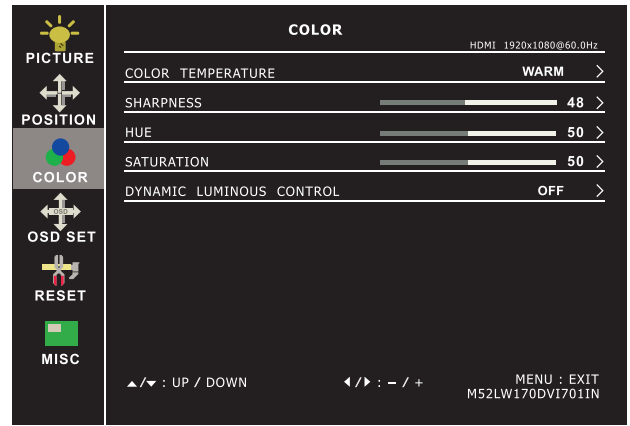
Picture size : FULL SCREEEN / 4:3 / 5:4 / 16:10



# On-screen Display Operation ( OSD )

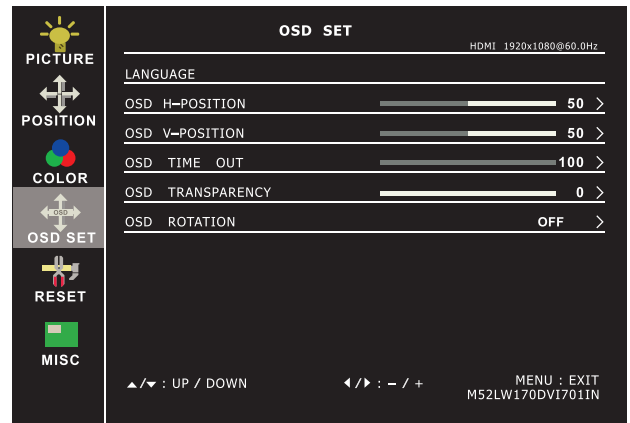
## ③ Color

- 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 luminous control : Control the dynamic brightness



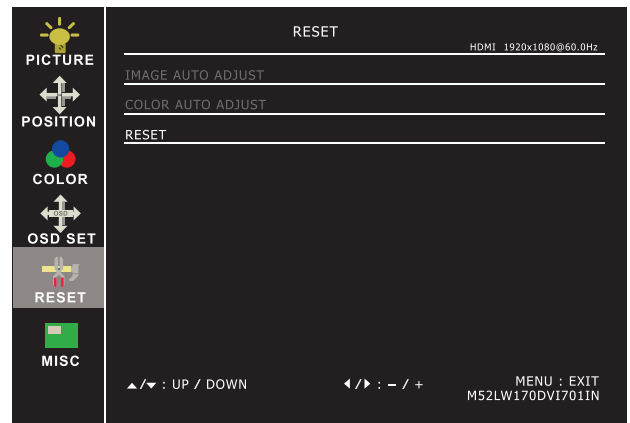
## ④ OSD Set

- Language : Select the language in which the OSD menu is displayed - English
- OSD H-Position : Align the screen image left or right
- OSD V-Position : Align the screen image up or down
- OSD time out : Adjust the screen timeout
- OSD transparency : Adjust the screen transparency
- OSD rotation : Rotate the screen - 90° / 180° / 270°



## ⑤ Reset

- Reset : Return the adjustment back to factory setting



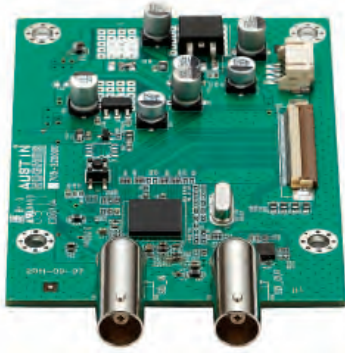
## ⑥ MISC

- Signal source : Select the signal source - DP / HDMI1 / HDMI2
- Mute : Turn off the surrounding sound
- Audio in : Auto / Line in / DP
- Volume : Adjust the volume of sound
- Sleep mode : Set the off time - 10 min / 20 min / 30 min / 50 min / 60 min / 120 min / 240 min



< Part 3 >

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



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

Designed for use with CyberView Full HD 1080p and ultra high resolution 1920 x 1200 LCD displays, We provide a SDI input module without using additional space or power and it comes standard with a 1-year warranty.

**SDI**  
in - out



<b>INPUT</b>	3G-SDI IN	BNC x 1 / 0.8Vp-p ( 75 ohm )
	3G-SDI OUT	BNC x 1 / Active through, equalized & relocked

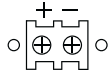
<b>Standard Compliance</b>	Video	SMPTE 425M / 274M / 296M / 125M ITU-R BT.656
	Audio	SMPTE 299M / 272M-C

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

<b>Compatible Audio Format</b>	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

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

## < 3.2 > Options : DC Power



Model	12V	24V	48V	125V	250V
<b>Input rating</b>					
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
<b>Output rating</b>					
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	6.25A	12.5A
<b>Efficiency</b>	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.

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.

All brand names, logo and registered trademarks are properties of their respective owners.

Copyright 2023 Synergy Global Technology Inc. All rights reserved.