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# User Manual 17" Ultra High Resolution LCD 1920 x 1200



## LCD1U17-42

1U Dual Slide LCD Console Drawer

Options :

- SDI
- HDMI
- DC power

FC CE  REACH

## Legal Information

First English printing, November 2019

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.**

- 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



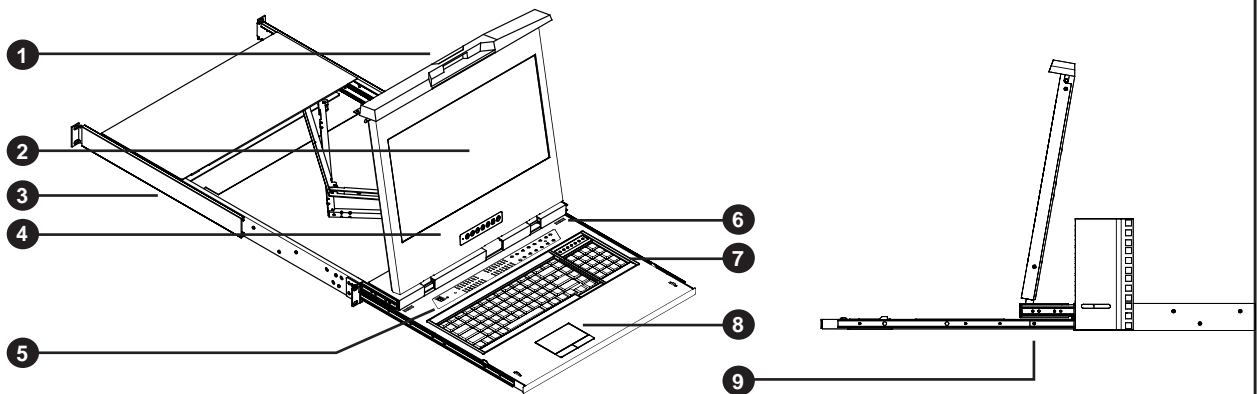
#### LCD1U17-42 unit X 1


- USB cable X 2
- 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 options such as KVM, SDI, HDMI & DC power.

### < 1.2 > Structure Diagram

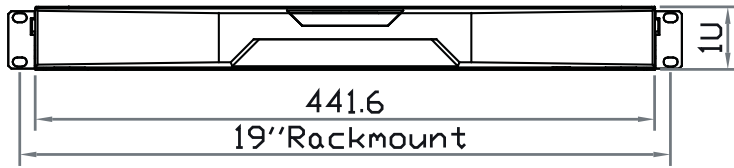


- ① Carry handle to release the 2-pt lock
- ② LCD interchangeable module kit
- ③ Installation Slides
- ④ LCD membrane 
- ⑤ Membrane switch (KVM option)

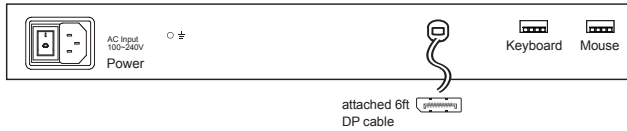
- ⑥ Audio speaker ( for SDI or HDMI option )
- ⑦ Keyboard interchangeable module kit
- ⑧ Touchpad mouse module
- ⑨ 1U dual slide for LCD console drawer

## < 1.2 > Dimension

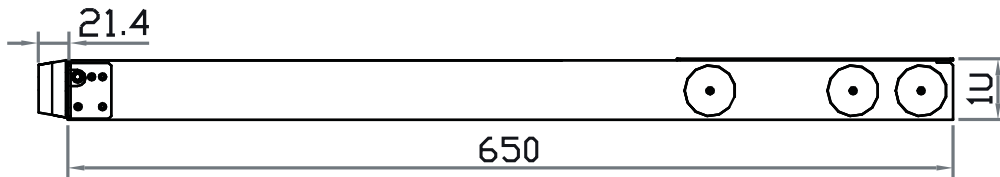
### Front View



### Rear View

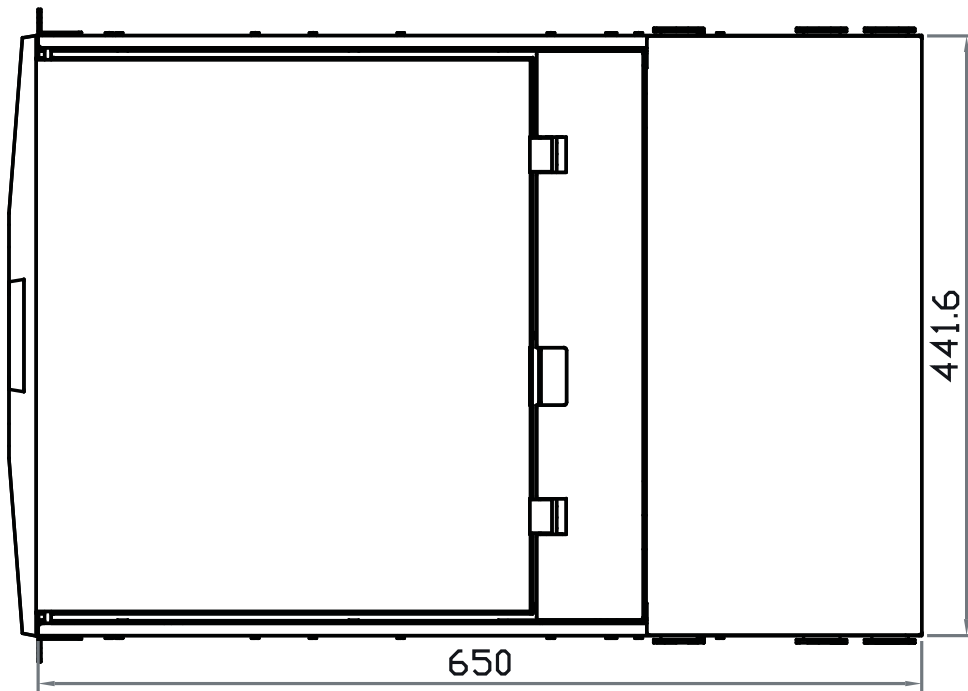


### Side View



UNIT : mm  
1mm = 0.03937 inch

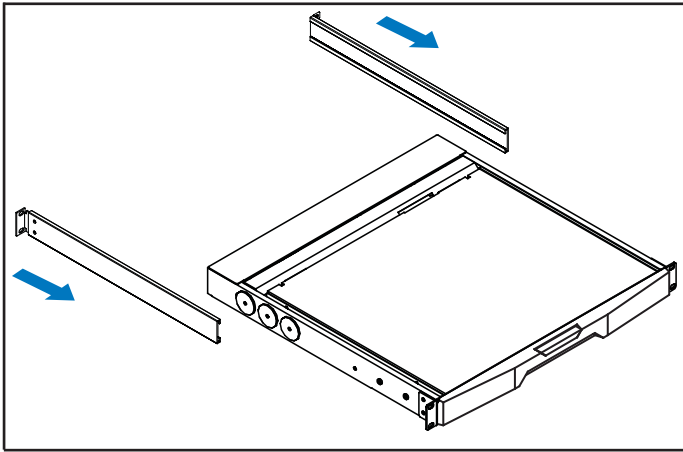
### Top View



Model	Product Dimension (W x D x H)	Net Weight
LCD1U17-42	441.6 x 650 x 44 mm 17.4 x 25.6 x 1.73 inch	12 kg 26.4 lb

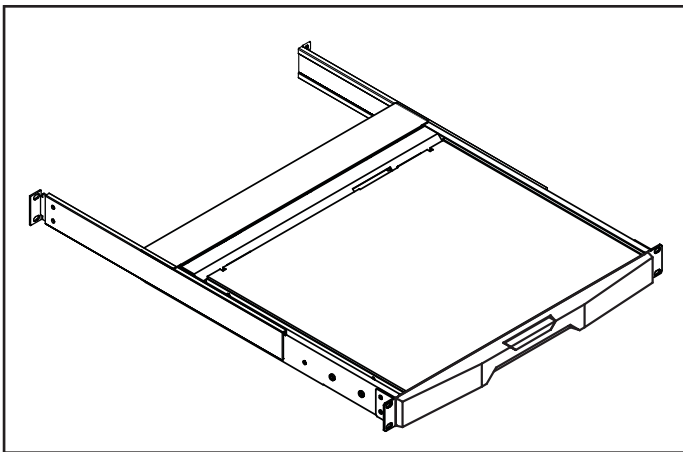
**!** The weight is only for the single console models. It varies with accessories & options such as KVM, SDI, HDMI & DC power.

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



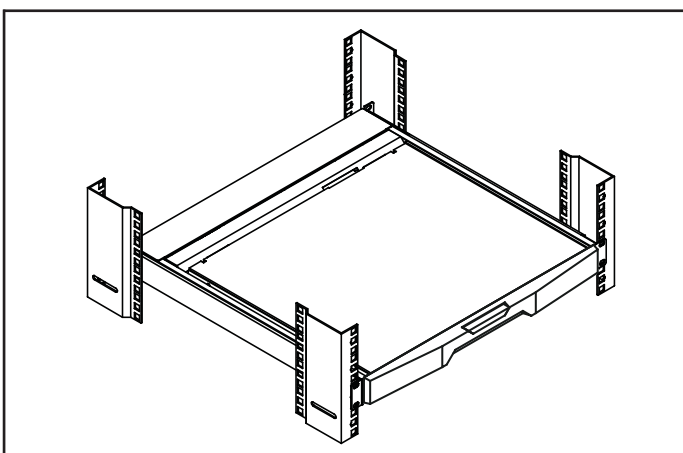
### Step 1

- 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

- 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.

## Installation - How to Use the Dual Slides



- Flip down the front panel.

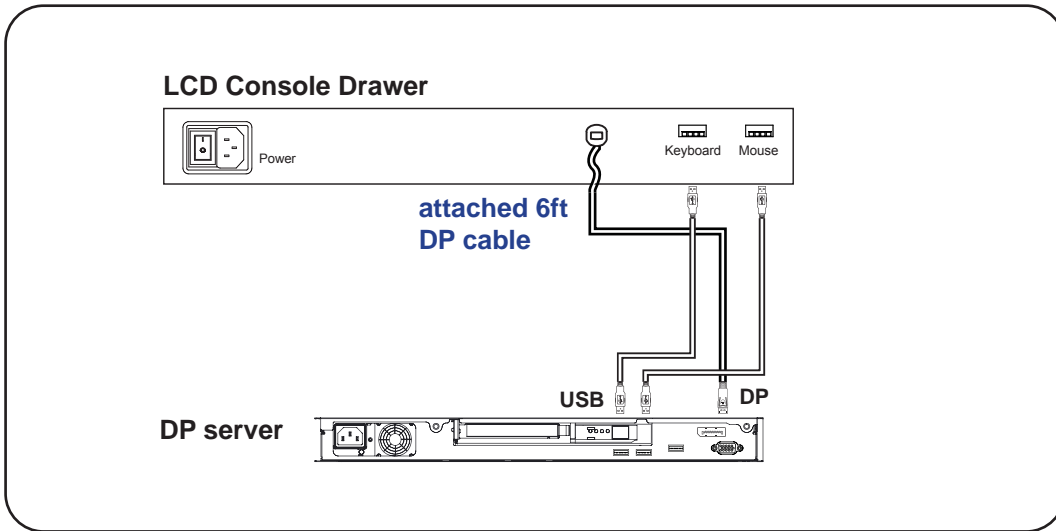


- Press the handle button and gently push back the drawer into the rack.

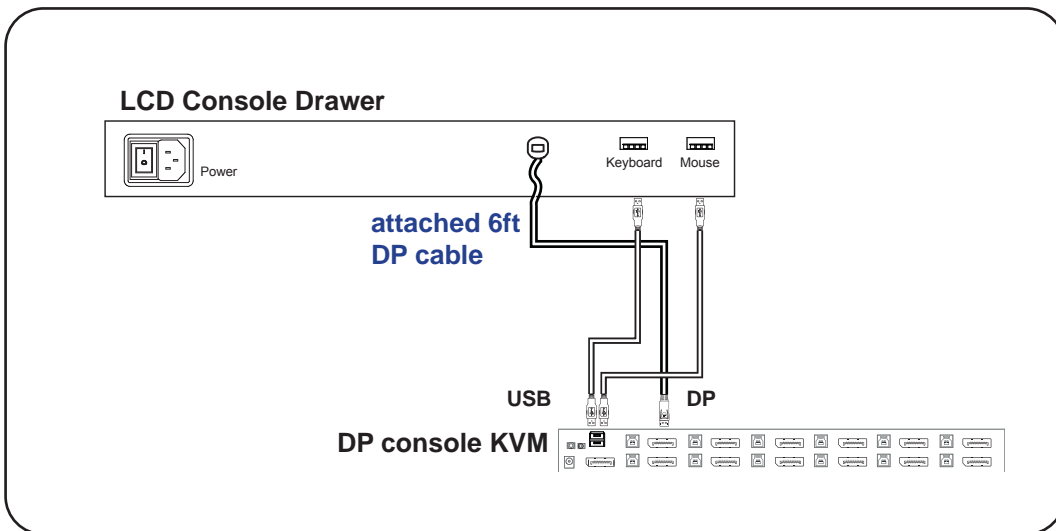


- Return the LCD console drawer to park position.

## < 1.4 > LCD1U17-42 Connection to DP Server



## LCD1U17-42 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 )	3840 x 2160
	Brightness ( typ. )	300
	Contrast Ratio ( typ. )	1000:1
	Color	16.7 M, 8-bit
	Viewing Angle ( L/R/U/D )	89/89/89/89
	Response Time ( ms )	16
	Dot pitch ( mm )	0.0995
	Display Area ( mm )	382.12H x 214.94V
	Surface treatment	Anti-glare
	Surface hardness	3H
	Backlight Type	LED
	MTBF ( hrs )	20,000

<b>Video</b>	Package	DP 1.2 / HDCP 1.3
	Option	HDMI 2.0 / HDCP 2.2

<b>Power</b>	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz
	Power Consumption for Single Console	Screen ON	Max. 29W
		Power saving mode	Max. 9W
		Power button OFF	Max. 2W
	Power Consumption with KVM integration	Screen ON	Max. 38W
		Power saving mode	Max. 18W

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

<b>Regulatory</b>	Safety	FCC & CE certified
	Environmental	RoHS2 & REACH compliant

<b>Environmental Conditions</b>	Operating	Temperature	0 to 55°C degree
		Humidity	20~90%, 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	5~500Hz 1G RMS random

## Product Specifications

<b>Physical Specification</b>	Product ( W x D x H )	441.6 x 650 x 44 mm 17.4 x 25.6 x 1.73 inch
	Net Weight	12 kg / 26.4 lb

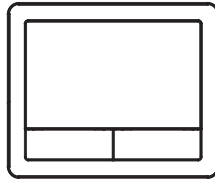
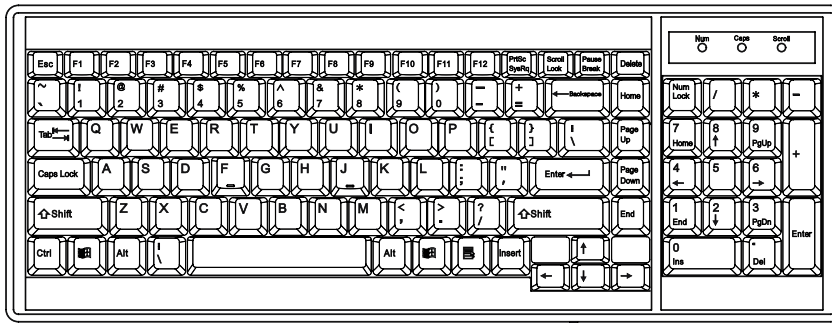
\* All dimensions stated are subject to change if options are selected / integrated to base model part codes

<b>Applicable Format</b>	Display Port Input	PC Signal	3840 x 2160 x 60Hz		
			1920 x 1080 x 60Hz		
			1600 x 1200 x 60Hz		
			1360 x 768 x 60Hz		
			1280 x 1024 x 60 / 75Hz		
			1280 x 768 x 60Hz		
			1024 x 768 x 60 / 70 / 75Hz		
			800 x 600 x 60 / 72 / 75Hz		
			720 x 400 x 70Hz		
			640 x 480 x 60 / 72 / 75Hz		
	HDMI Input	Audio Signal	2ch Linear PCM		
			HDMI 2.0	3840 x 2160 x 60Hz	
				HDMI 2.0 / 1.4	3840 x 2160 x 30Hz
					1920 x 1080 x 50 / 60Hz ( 1080p )
1920 x 1080 x 25 / 30Hz ( 1080i )					
HDMI Input	Audio Signal	1280 x 720 x 50 / 60Hz ( 720p )			
		720 x 480 x 50 / 60Hz ( 576p / 480p )			
HDMI Input	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 > Keyboard / Mouse Specifications

**N** keyboard integrated with touchpad



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

### Supporting layouts

America



United States



United Kingdom



Germany



France



Spain



Norway

EMEA



Italy



Russia



Switzerland



Netherlands



Portugal

Asia



China



Japan



Korea



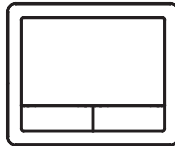
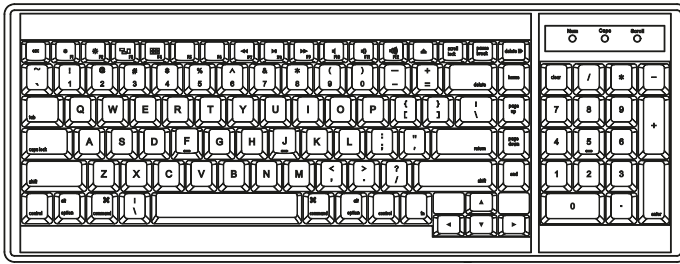
Arabia



Turkey

# MAC Keyboard / Mouse Options

**Mn** MAC keyboard integrated with touchpad



## Supporting layouts

America   
United States

## How to Use "MAC" Keyboard

### Keyboard Features



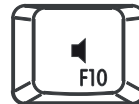
**F1**  
Decrease display brightness



**F9**  
Fast-forward



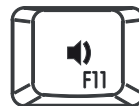
**F2**  
Increase display brightness



**F10**  
Mute sound



**F3**  
Mission control  
\* Only works with OS X Lion  
default Keyboard Shortcuts.



**F11**  
Decrease volume



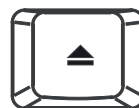
**F4**  
Dashboard



**F12**  
Increase volume



**F7**  
Rewind



**Eject disc**



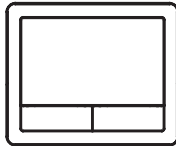
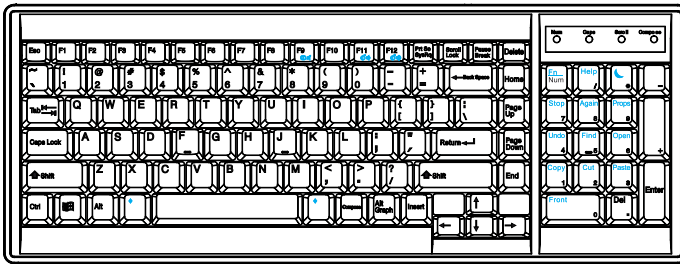
**F8**  
Play / Pause



**Command**

## < 2.2 > SUN Keyboard / Mouse Options

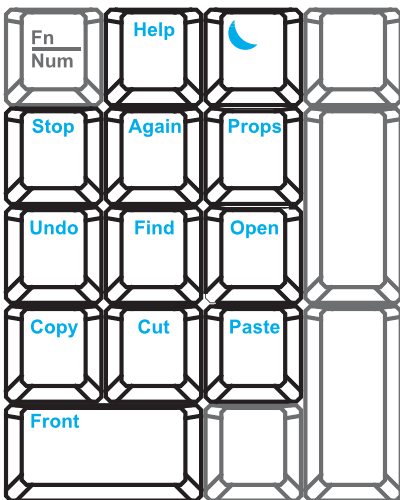
**Sn** SUN keyboard integrated with touchpad



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

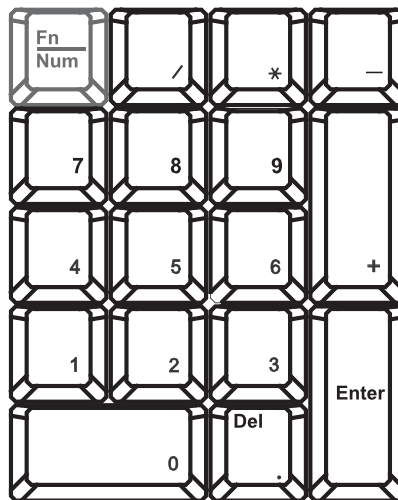
- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface
- US layout only

### How to Use "S" Keyboard



#### Num LED in Off mode

Key pad behaves as a SUN Solar system administration command mode

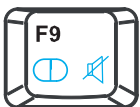


#### Num LED in Green mode

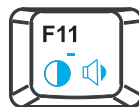
Key pad behaves as a normal key pad mode

### Audio / Display Keys

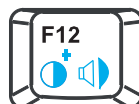
\* Please ask your supplier for full details



**F9**  
Audio : Mute  
Display : Degauss



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

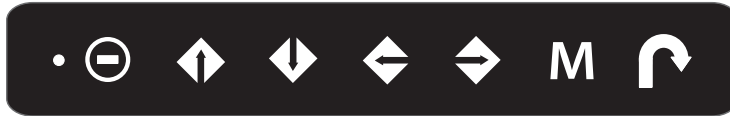







**F12**  
Audio : Increase volume  
Display : Increase contrast



## < 2.3 > 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)

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

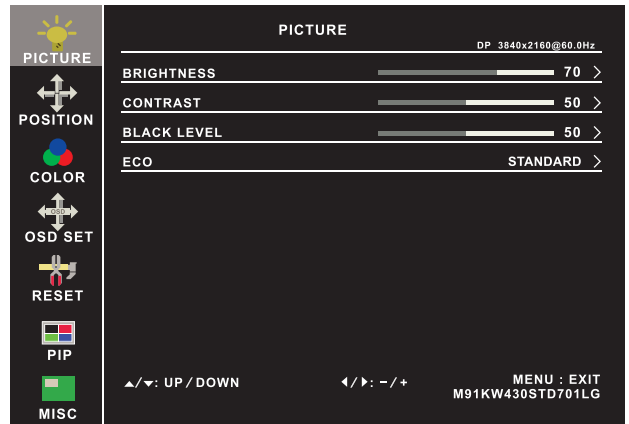
### ① Picture

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

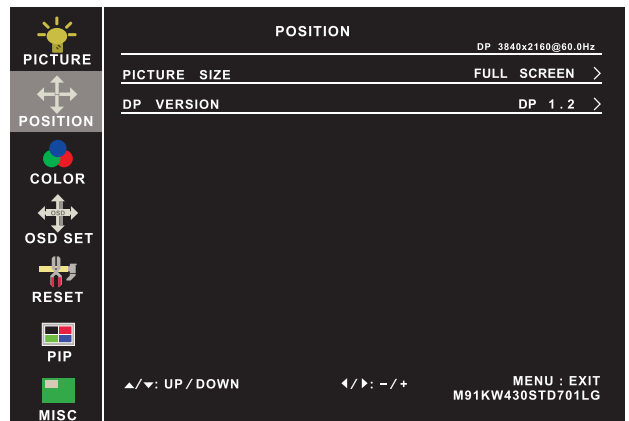
Eco : Screen in power saving mode



### ② Position

Picture size : Adjust the image size  
- Full Screen / 4:3 / 5:4 / Pixel to Pixel

DP version : Select the DP version



### ③ Color

Color temperature : User / Warm / Cool / 5400k mode and Red / Green / Blue color balance

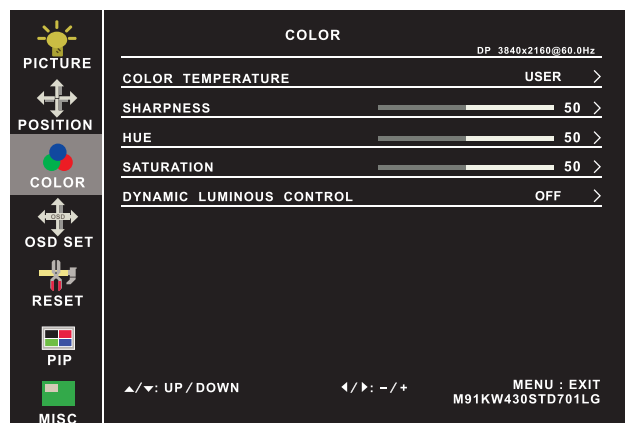
Sharpness : Adjust the image from weak to sharp

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

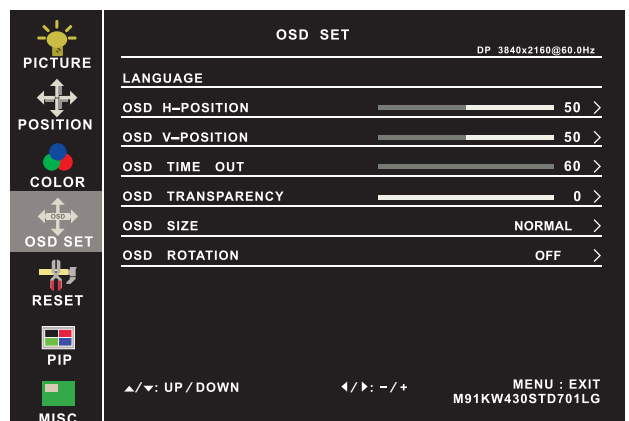
OSD V-Position : Align the screen image up or down

OSD time out : Adjust the screen timeout

OSD transparency : Adjust the screen transparency

OSD size : Adjust the screen size - Normal / Small

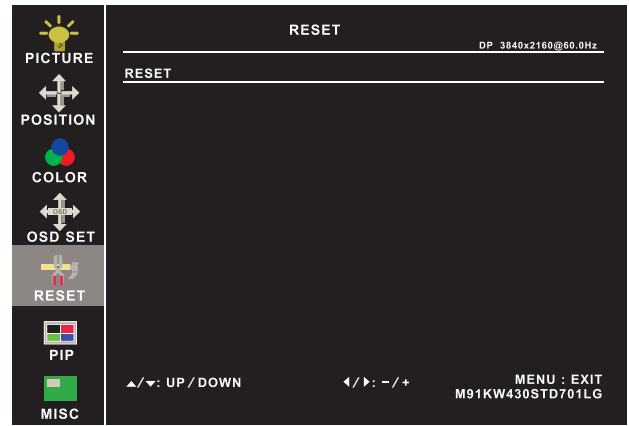
OSD rotation : Rotate the screen - 90° / 180° / 270°



# On-screen Display Operation ( OSD )

## ⑤ Reset

Reset : Return the adjustment back to factory setting



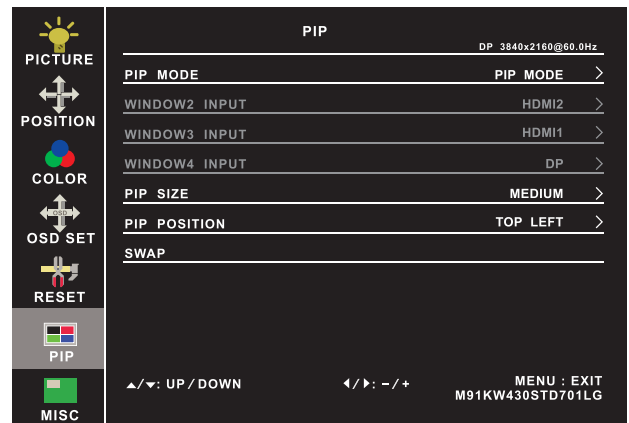
## ⑥ PIP

PIP mode : Enter into PIP / PBP setting - PIP MODE / PBP 2WIN ( Main screen + 1 sub screen ) / PBP 3WIN ( Main screen + 2 sub screen ) / PBP 4WIN ( Main screen + 3 sub screen )  
Select the signal input of each sub screen

PIP size : Adjust the size of the Sub screen  
- Small / Medium / Large / Huge

PIP position : Adjust the position of the Sub screen  
- Top Left / Top Right / Bottom Left / Bottom Right

Swap : Swap the input signal of PIP / PBP sub screen



## ⑦ MISC

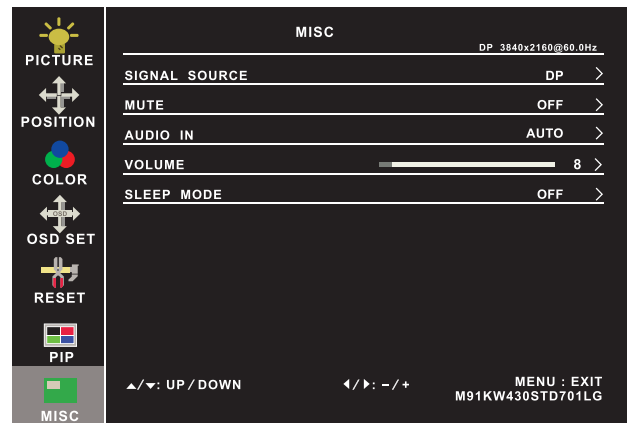
Signal source : Select the signal source - DP / HDMI1 / HDMI2

Mute : Turn off the surrounding sound

Audio in : Auto / Line in / DP

Volume : Adjust the volume of sound

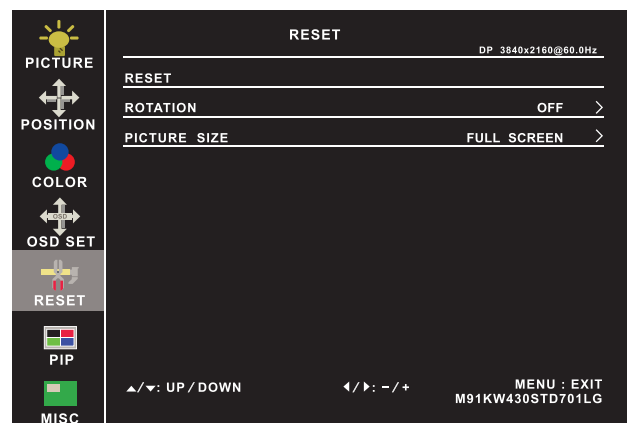
Sleep mode : Set the off time - 10 min / 20 min / 30 min / 50 min / 60 min / 120 min / 240 min



### Options on Reset page

Rotation : Rotate the image in Full screen or 1:1  
- 90° / 180° / 270°

Picture size : Adjust the image size in Full screen or 1:1

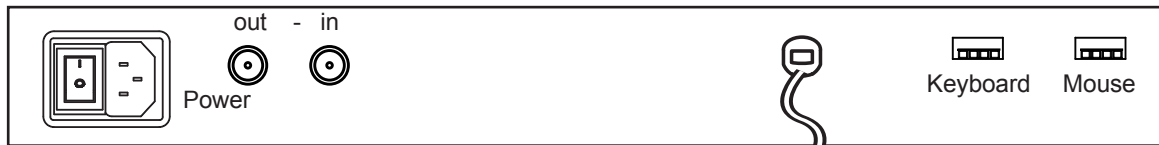


< Part 3 >

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



SDI



attached 6ft DP cable

<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 : HDMI

### - HDMI 2.0 ( HDCP 2.2 )



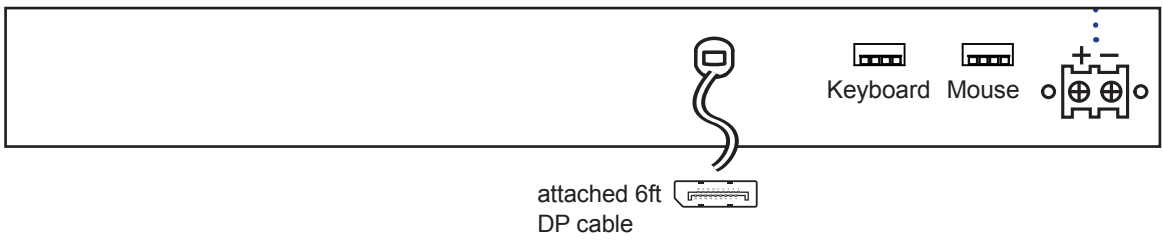
( 1 ) In some circumstances, if the user connects the LCD to PC via HDMI port for video and audio signals, the LCD may display incorrectly on a full screen. If so, please adjust the display card setting on display size to fix the issue.




### < 3.3 > Options : DC Power



Model	12V	24V	48V	125V
<b>Input rating</b>				
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V
Input current				
- No load	50 mA	50 mA	50 mA	35 mA
- Full load	4950 mA	2450 mA	1220 mA	460 mA
<b>Output rating</b>				
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	4.16A
<b>Efficiency</b>	84%	88%	90%	89%

### 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.

< Part. 4 > KVM Integration

<b>4K 60Hz KVM</b>  	Local	Remote	<b>IP</b>	8-port	-	-
	0	0	0	-801K	-	-

Model	Product Dimension (W x D x H)	Net Weight
LCD1U17-42 with KVM	441.6 x 650 x 44 mm 17.4 x 25.6 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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