

## User Manual 16.2" Ultra High Resolution LCD 1920 x 1200



### X117

#### 1U LCD Console Drawer

Options :

- SDI
- DC power



REACH

Designed and manufactured by Austin Hughes

751



## Legal Information

First English printing, October 2002

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 > X117

1.1	Package Content	P.1
1.2	Structure Diagram & Dimension	P.1 - 2
1.3	Installation	P.3 - 5
1.4	Connection	P.6 - 9

## < Part. 2 > Specifications / OSD

2.1	Product Specifications	P.10 - 11
2.2	Keyboard / Mouse Specifications	P.12 - 14
2.3	On-screen Display Operation ( OSD )	P.15 - 16
2.4	Picture In Picture ( PIP ) / Picture By Picture ( PBP )	P.17 - 18

## < Part. 3 > Options

3.1	3G / HD / SD- <b>SDI</b> Broadcast-grade input	P.19
3.2	DC Power : 12V / 24V / 48V / 125V / 250V	P.20

## < Part. 4 > KVM Integration

P.21

## 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



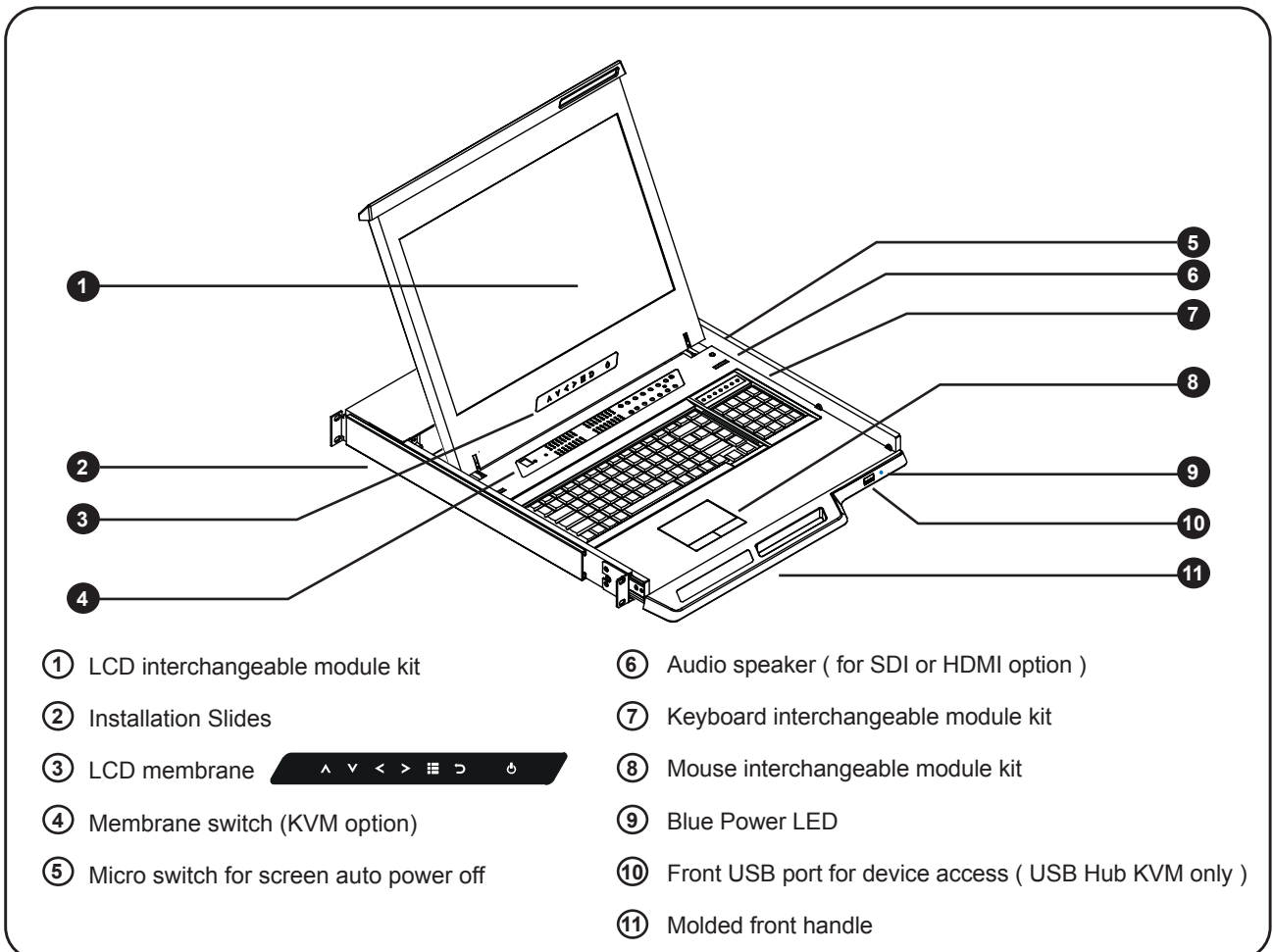
#### X117 unit X 1

- CX-6 6ft DVI-D console cable X 1  
( Alternative : CB-6 6ft VGA console cable )
- Power cord X 1
- M6 screw, cage nut & cup washer X 8

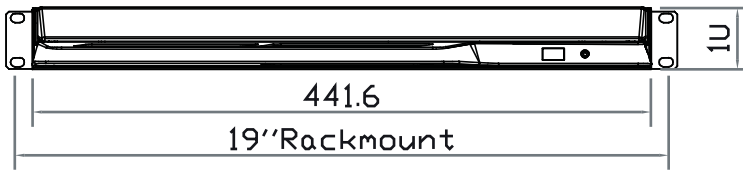


The above package content is only for the single console models.  
It varies with options such as KVM, SDI & DC power.

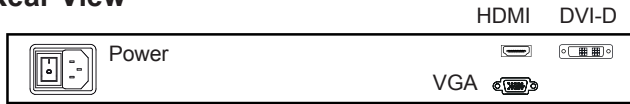
### < 1.2 > Structure Diagram



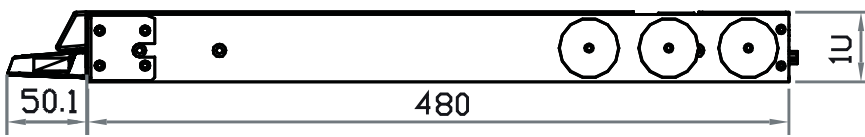
Front View



Rear View

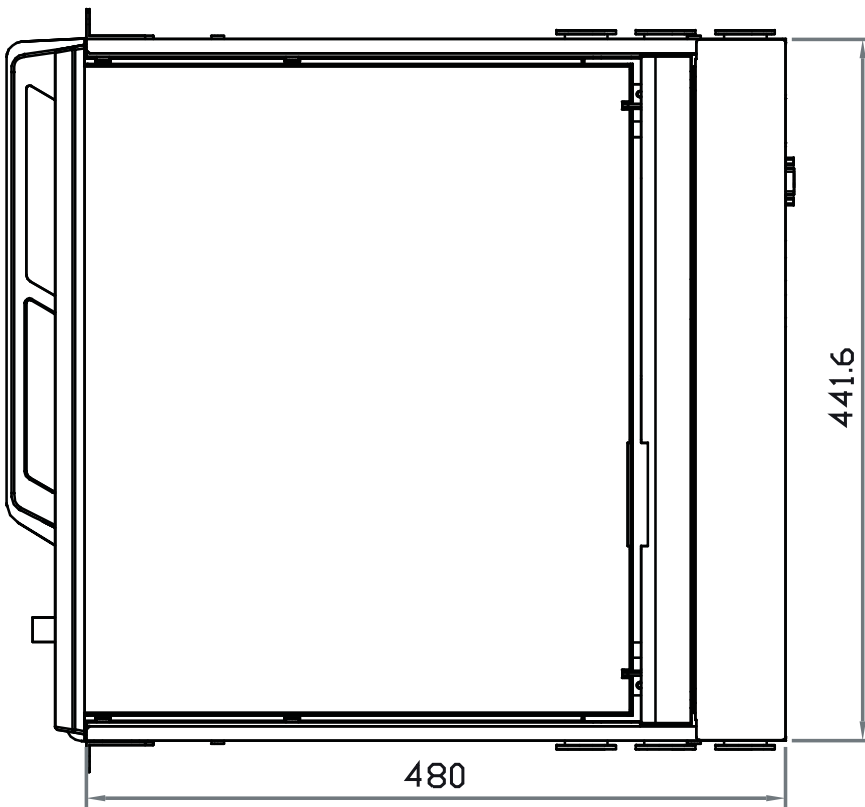


Side View




UNIT : mm  
1mm = 0.03937 inch

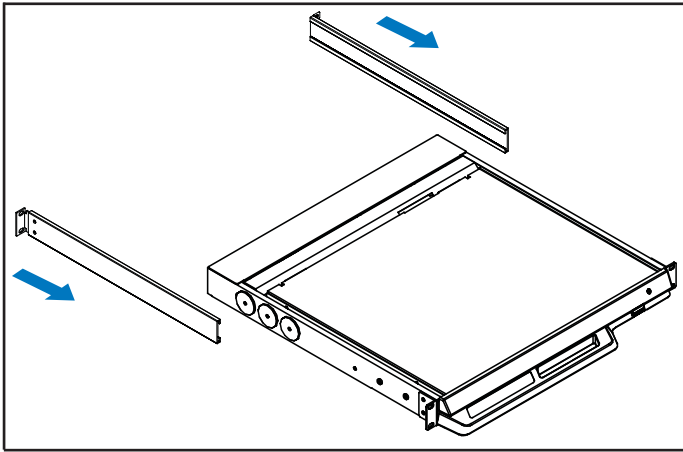
Top View



Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
X117	441.6 x 480 x 44 mm 17.4 x 18.9 x 1.73"	590 x 808 x 140 mm 23.2 x 31.8 x 5.5"	10.9 kg 24 lb	15.8 kg 34.8 lb

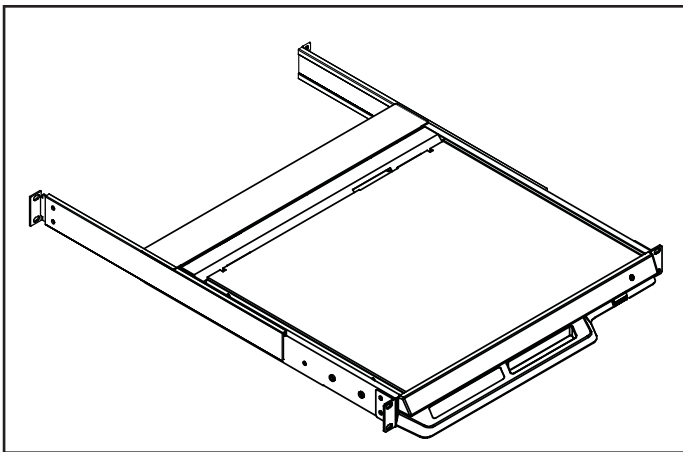
 The weight is only for the single console models. It varies with accessories & options such as KVM, SDI, HDMI & DC power.

## < 1.3 > Installation - Installation Slides



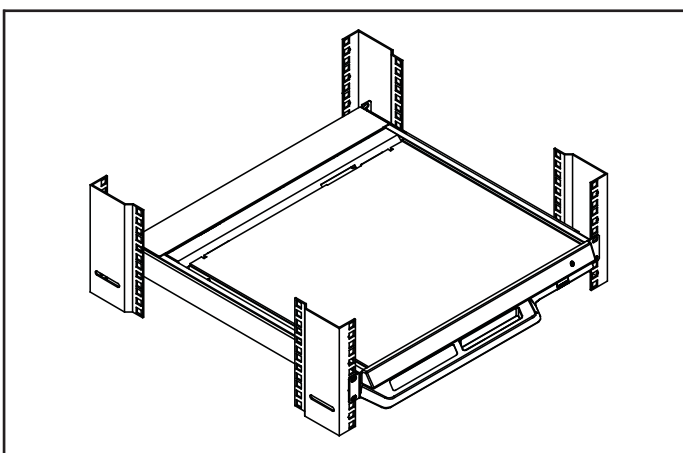
### Step 1

- 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

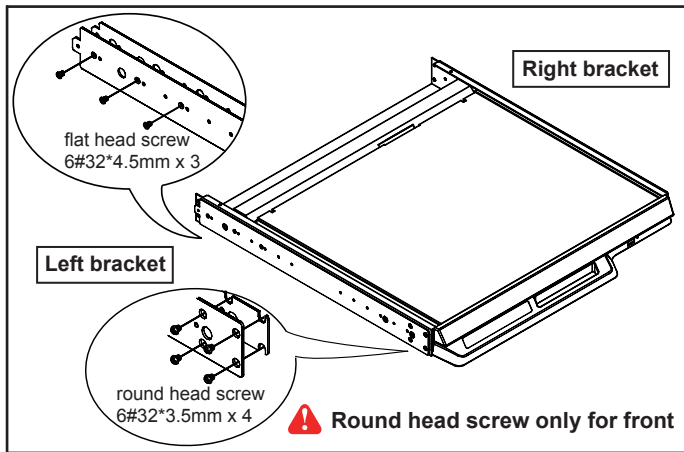
#### Complete the installation

- Fix the LCD console drawer into the rack.

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

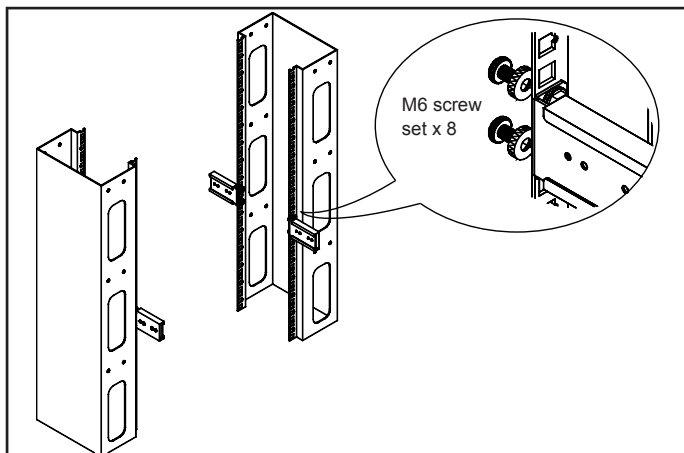


## < 1.3 > Installation - **ORB-2.1** 2-Post Rack Mounting Brackets ( Option ) X117



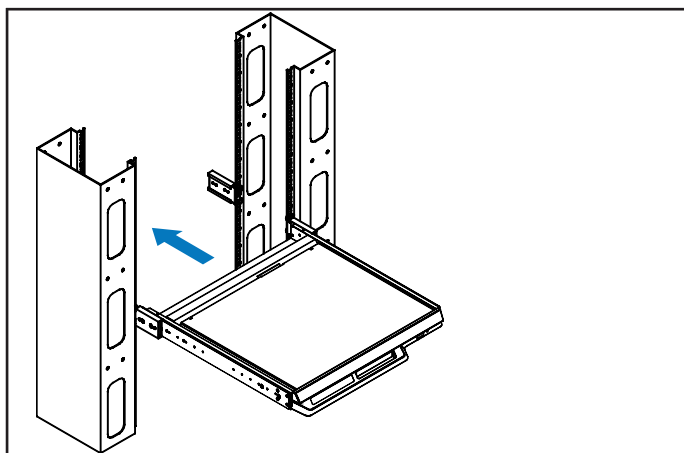
### Step 1

- 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 )



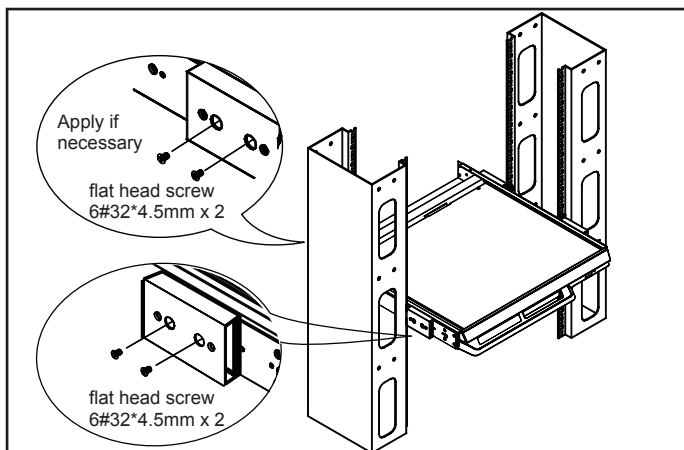
### Step 2

- 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.**

### < 1.3 > Installation- How to use the drawer



- Hold the handle and slide out the drawer.

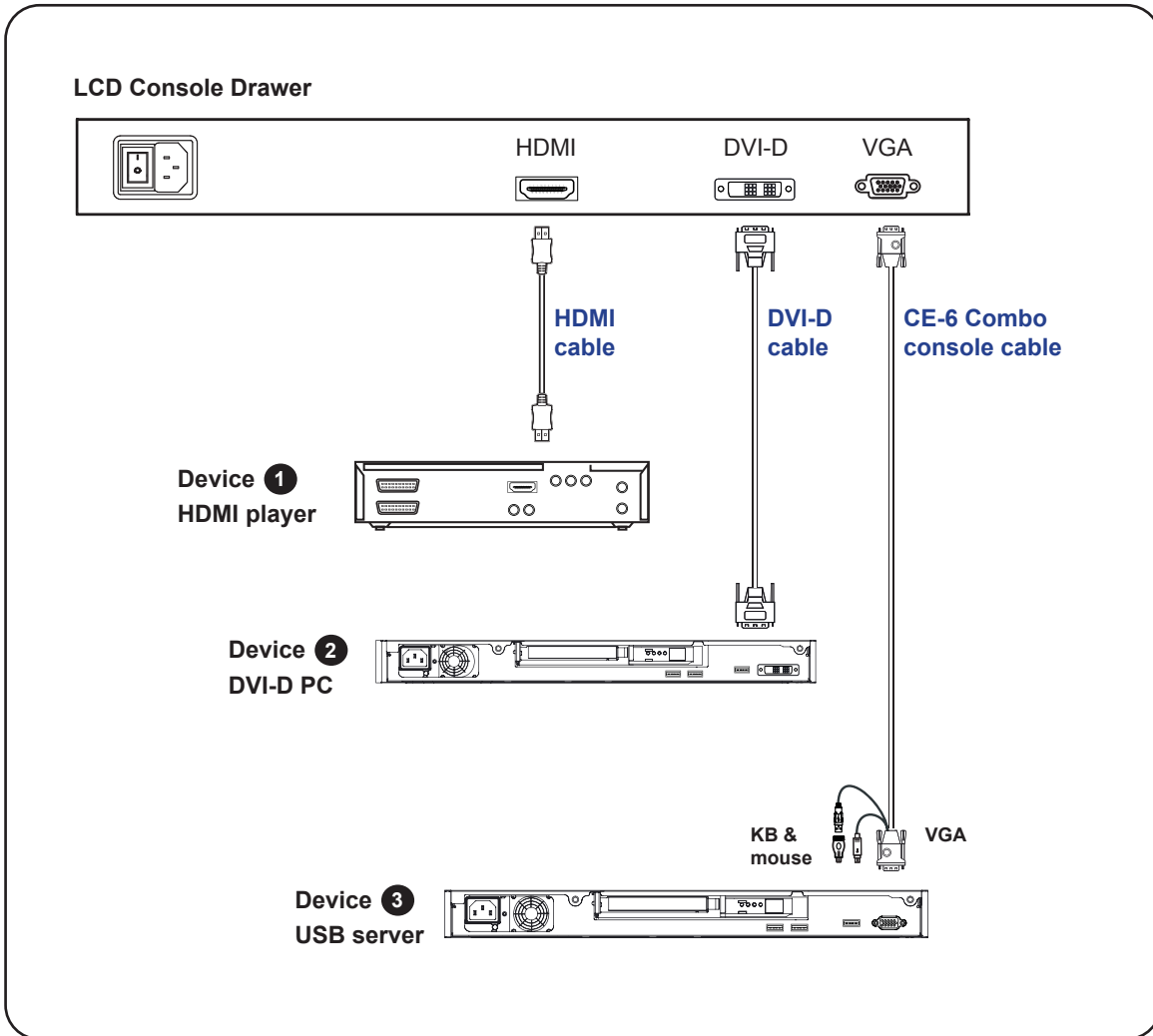


- Flip up the LCD to a suitable angle.



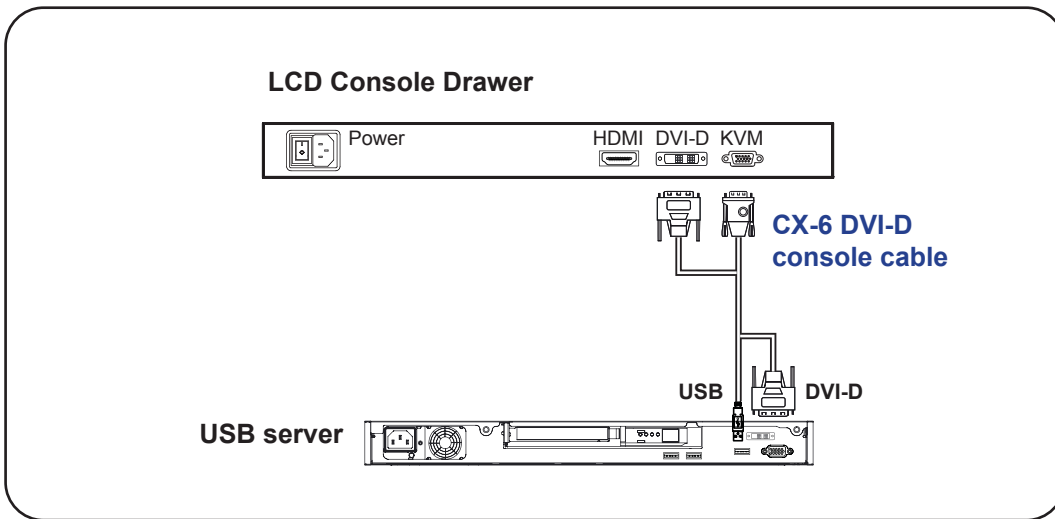
- Operate the LCD console drawer.

X117 provides three signal input - DVI-D, VGA & HDMI. By PIP function, user can view two different signal inputs on the display ( please refer to P.17-18 ).

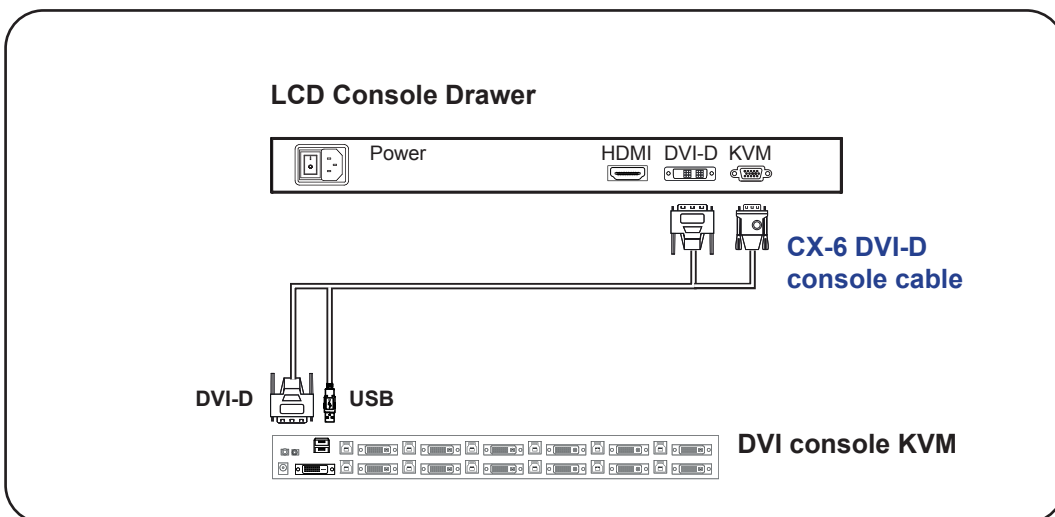


**Caution :** The LCD console drawer is hot-pluggable, but components of connected devices, such as the servers and KVM switch, may not be hot-pluggable. Plugging and unplugging cables while servers and KVM are powered on may cause irreversible damage to the servers, KVM and LCD console drawer. Before attempting to connect anything to the LCD console drawer, we suggest turning off the power to all devices. Apply power to connected devices again only after the LCD console drawer is receiving power. The company is not responsible for damage caused in this way.

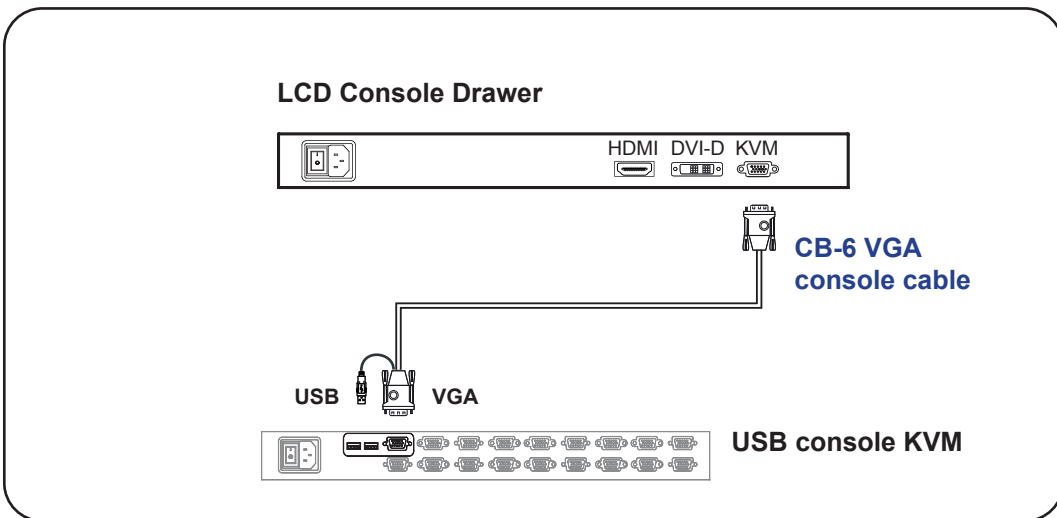
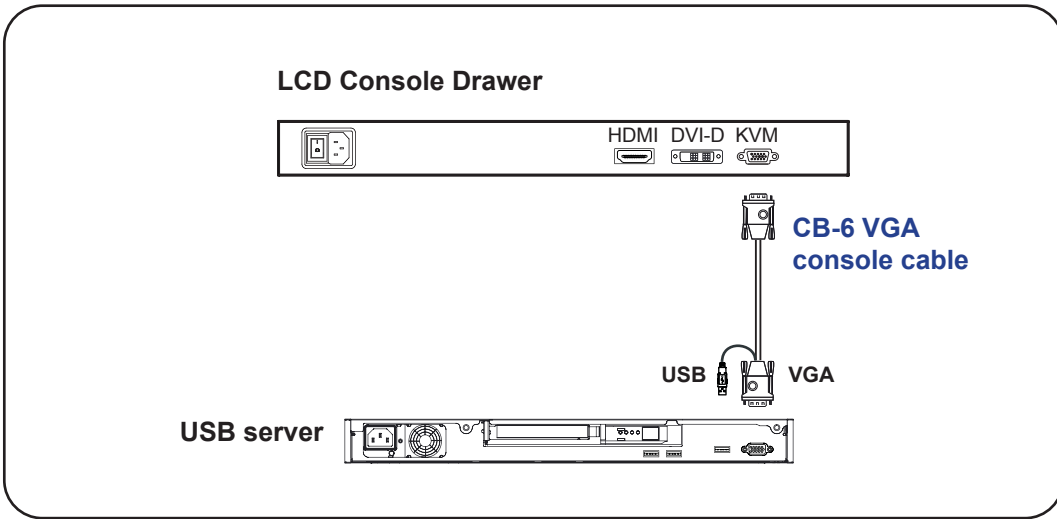
## < 1.4 > Connection to **USB Server** via CX-6 cable



## < 1.4 > Connection to **external KVM** via CX-6 cable

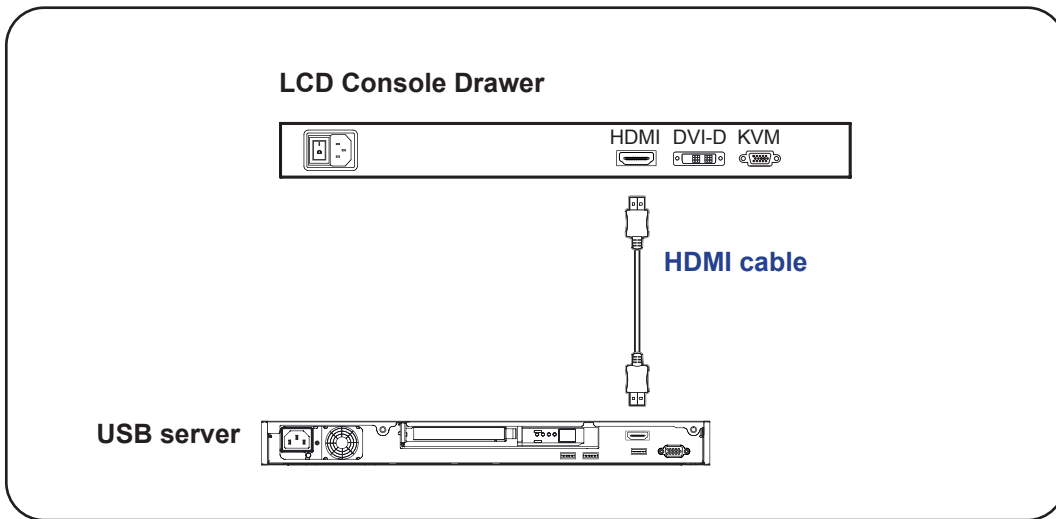


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## < 1.4 > Connection to **HDMI Device** via \*HDMI cable



\* HDMI cable is not provided.



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<b>LCD Panel</b>	Panel Size ( diagonal )	16.2-inch Widescreen TFT color LCD
	Display pixel ( dots x lines )	1920 x 1200
	Brightness ( typ. )	300
	Contrast Ratio ( typ. )	800:1
	Color	16.7 M, 8-bit
	Viewing Angle ( L/R/U/D )	89/89/89/89
	Response Time ( ms )	30
	Dot pitch ( mm )	0.191
	Display Area ( mm )	343.80H x 214.90V
	Surface treatment	Anti-glare, Hard-coating
	Surface hardness	3H
	Backlight Type	LED
	MTBF ( hrs )	20,000

<b>Video Connectivity</b>	Digital	HDMI	HDMI 1.4, CEA-861-D
		DVI	DVI-D, TMDS single link
	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. 34W
		Power saving mode	Max. 4W
		Power button OFF	Max. 1W
	Power Consumption with KVM integration	Screen ON	Max. 59W
		Power saving mode	Max. 29W

\*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

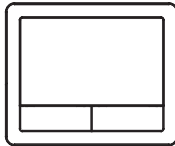
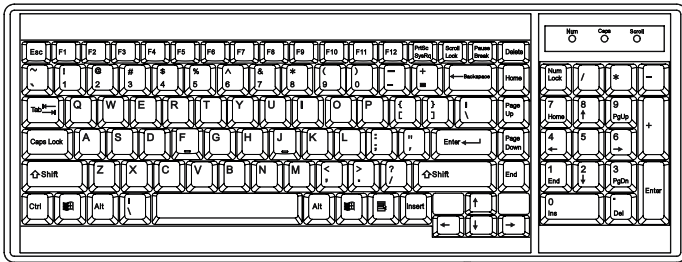
<b>Physical Specification</b>	Product ( W x D x H )	441.6 x 480 x 44 mm 17.4 x 18.9 x 1.73 inch
	Packing ( W x D x H )	590 x 808 x 140 mm 23.2 x 31.8 x 5.5 inch
	Net Weight	10.9 kgs / 24 lbs
	Gross Weight	15.8 kgs / 34.8 lbs

<b>Applicable Format</b>	DVI-D / VGA Input	PC Signal	1920 x 1200 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			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 400 x 70Hz
	640 x 350 x 70Hz		
	HDMI Input	PC Signal	Same as VGA
			Video Signal
		Video Signal	720p : 50 / 60Hz
480p : 60Hz			
576p : 50Hz			
Audio Signal	2ch Linear PCM ( 32 / 44.1 / 48 KHz )		
Speaker	Dual Stereo Speaker, 2 x 2W		

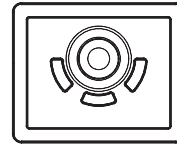
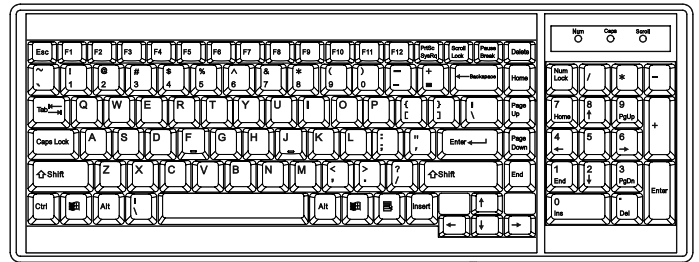
\*In some circumstances, if the user connects the LCD to PC via HDMI port for video and audio signals, the LCD may display incorrectly on a full screen. If so, please adjust the display card setting on display size to fix the issue.



**Ge** G keyboard integrated with touchpad



**Gb** G keyboard integrated with trackball



<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



United Kingdom



Germany



France



Spain



Norway

**EMEA**



Italy



Russia



Switzerland



Netherlands



Portugal

**Asia**



China



Japan



Korea



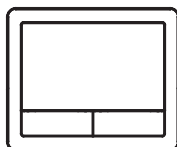
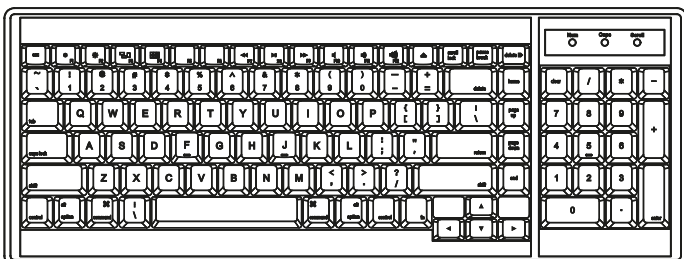
Arabia



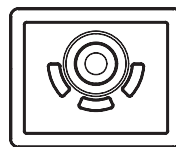
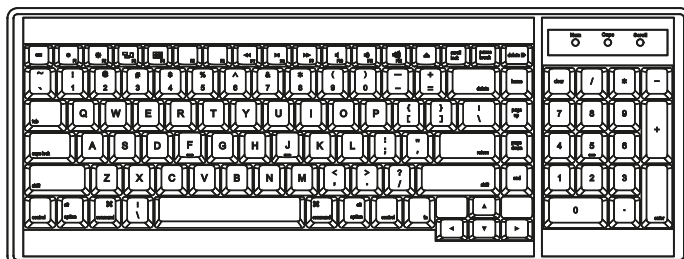
Turkey

## < 2.2 > MAC Keyboard / Mouse Options

**Me** MAC keyboard integrated with touchpad



**Mb** MAC keyboard integrated with trackball



### Supporting layouts

America



United States

## How to Use "MAC" Keyboard

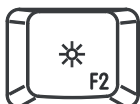
### Keyboard Features



**F1**  
Decrease display brightness



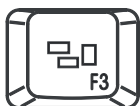
**F9**  
Fast-forward



**F2**  
Increase display brightness



**F10**  
Mute sound



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



**F11**  
Decrease volume



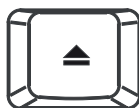
**F4**  
Dashboard



**F12**  
Increase volume



**F7**  
Rewind



**Eject disc**

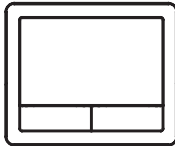
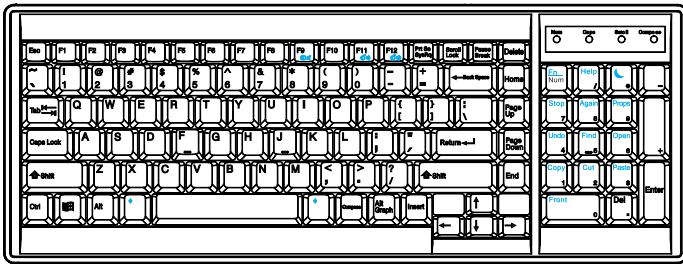


**F8**  
Play / Pause

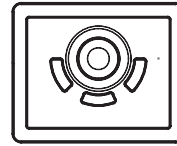
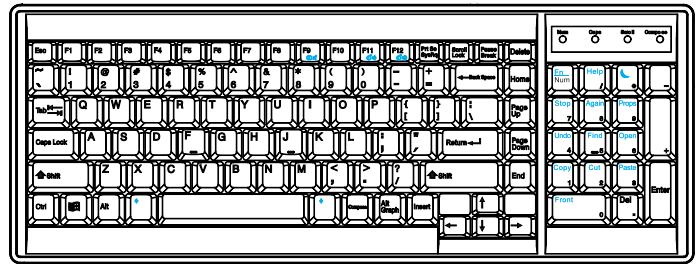


**Command**

**Se** S keyboard integrated with touchpad



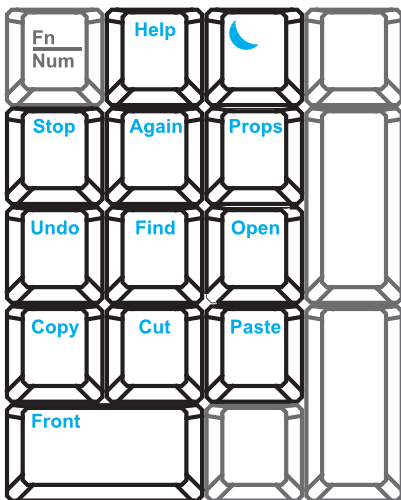
**Sb** S keyboard integrated with trackball



**S keyboard integrated with touchpad / trackball**

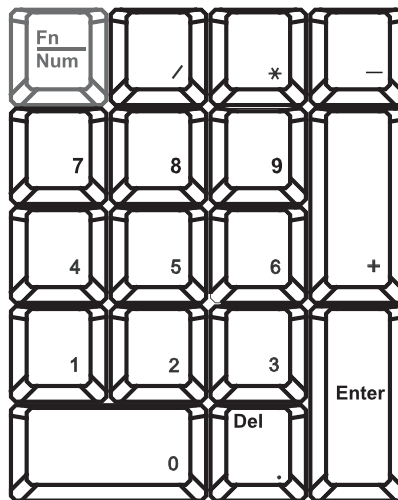
- Incorporates SUN keys, including Stop, Cut, Paste, Compose, Copy and Help
- 104 key notepad keyboard with full numerical pad and SUN function
- USB interface
- US layout only

**How to Use "S" Keyboard**



**Num LED in Off mode**

Key pad behaves as a SUN Solar system administration command mode

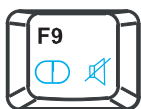


**Num LED in Green mode**

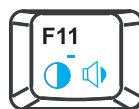
Key pad behaves as a normal key pad mode

**Audio / Display Keys**

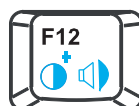
\* Please ask your supplier for full details



**F9**  
Audio : Mute  
Display : Degauss





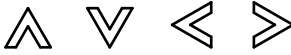

**F11**  
Audio : Decrease volume  
Display : Decrease contrast




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



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



Membrane Switch	Function
	Turn the monitor on or off
	Display the OSD menu Act as an Enter key to select screen setting options
	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

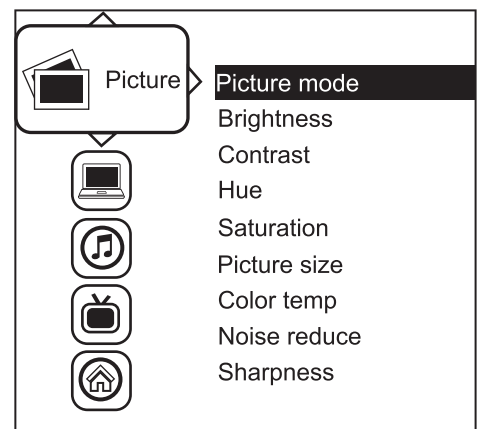
Remark : All LED touch buttons in **WHITE** light.

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**  ).

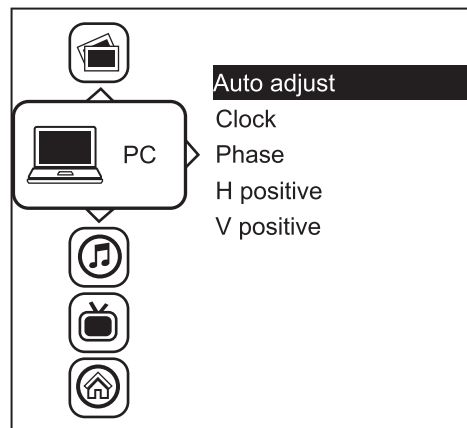
### ① Picture

Picture mode :	Standard / Vivid / Soft / User mode to choose
Brightness :	Adjust background black level of the screen image
Contrast :	Adjust the difference between the image background (black level) and the foreground (white level)
Hue:	Adjust the screen hue value
Saturation :	Adjust the saturation of the image color
Picture size :	Adjust the image size
Color temp :	Standard / Cool / Warm / User to choose
Noise reduce :	Reduce the noise of the image
Sharpness :	Adjust the image from weak to sharp



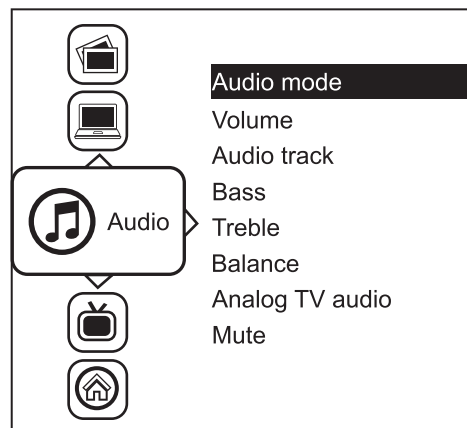
② PC

- Auto adjust : Automatically adjust sizes, centers and fine tunes the video signal to eliminate waviness and distortion.
- Clock : Adjust the clock value
- Phase : Adjust the phase value
- H. Position : Align the screen image left or right
- V. Position : Align the screen image up or down



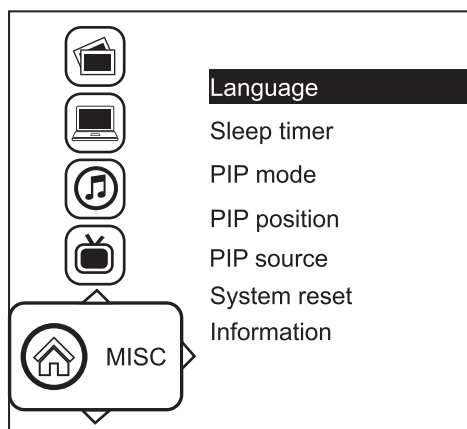
③ Audio

- Audio mode : Movie / Voice / Normal / Music mode to choose
- Volume : Adjust the volume of sound
- Bass : Set the value of bass sound
- Treble : Set the value of treble sound
- Balance : Set the balance value of treble and bass sound
- Analog TV audio : Set the value of analog TV audio sound
- Mute : Turn off the surrounding sound



④ MISC

- Language : Select the language in which the OSD menu is displayed - English
- Sleep timer : Set the off time
- PIP mode : Adjust picture in picture setting
- PIP position : Enter into PIP position
- PIP source : Enter into the Sub source and sound source
- System reset : Return the adjustment back to factory setting
- Information : Select for Help



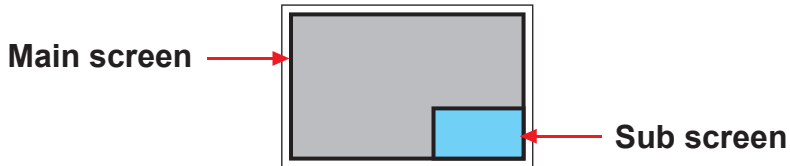
## < 2.4 > How to Use Picture In Picture ( PIP ) / Picture By Picture ( PBP )

### < 2.4.1 > Picture in Picture ( PIP )

#### Mode

Display the Sub screen in the Main screen.

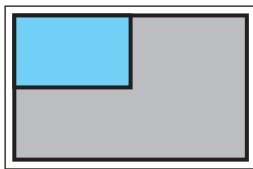
OSD Menu → MISC → PIP Mode → Large / Small / OFF



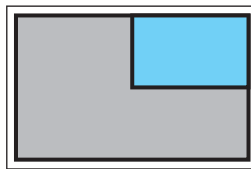
#### Position

Adjust the position of the Sub screen ( top left, bottom left, top right, bottom right )

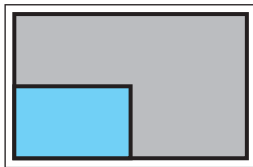
OSD Menu → MISC → PIP Position → top left / top right / bottom left / bottom right



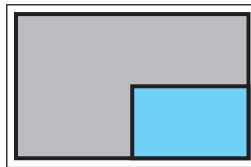
top left



top right



bottom left



bottom right

#### Size

Adjust the size of the Sub screen ( Large / Small )

OSD Menu → MISC → PIP Mode → Large / Small

#### Size of Sub screen

LCD Monitor	Large Sub screen	Small Sub screen
1920 x 1200	552 x 414	480 x 360
1920 x 1080	552 x 414	480 x 360
1440 x 900	414 x 310	360 x 270
1366 x 768	392 x 294	340 x 254
1280 x 1024	368 x 276	320 x 240

### < 2.4.2 > Picture By Picture ( PBP )

#### Mode

Display the Sub screen next to the Main screen.

OSD Menu → MISC → PIP Mode → PBP



#### Size

LCD Monitor	Main / Sub screen
1920 x 1200	955 x 716
1920 x 1080	955 x 716
1440 x 900	715 x 536
1366 x 768	678 x 508
1280 x 1024	635 x 476

### < 2.4.3 > PIP / PBP Source

To select an input signal for PIP / PBP Sub screen.

OSD Menu → MISC → PIP Source → VGA / S-Video / Composite / DVI / HDMI / SDI / YPbPr / TV

The PIP / PBP is operable in the following table :

Main \ Sub	VGA	S-Video	Composite	DVI-D	HDMI	SDI	YPbPr	TV
VGA	X	O	O	O	O	O	O	O
S-Video	O	X	X	O	O	O	O	X
Composite	O	X	X	O	O	O	O	X
DVI	O	O	O	X	X	O	O	O
HDMI	O	O	O	X	X	O	O	O
SDI	O	O	O	O	O	X	X	O
YPbPr	O	O	O	O	O	X	X	O
TV	O	X	X	O	O	O	O	X

< Part 3 >

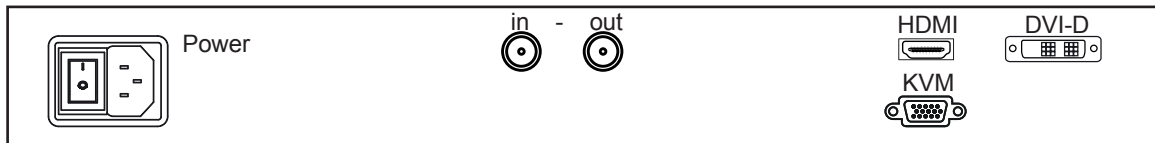
< 3.1 > Options : 3G / HD / SD-SDI input



Austin Hughes' 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 and it comes standard with a 2-year warranty.

**SDI**



\*\*\* For SDI option, casing depth will be changed from 480mm ( 18.9" ) to 530mm ( 20.9" )

<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



### < 3.3 > Options : DC Power


X117

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.
- ( 3 ) Casing depth will be extended from 480mm ( 18.9" ) to 530mm ( 20.9" )

## < Part. 4 > KVM Integration



[www.austin-hughes.com/support/usermanual/cyberview/UM-CV-MKVM-KIT.pdf](http://www.austin-hughes.com/support/usermanual/cyberview/UM-CV-MKVM-KIT.pdf)

Matrix DB-15 KVM 	Local	Remote		8-port	16-port	32-port
	1	1	1	-MIP813	-MIP1613	-
	1	1	2	-MIP824	-MIP1624	-
	1	1	0	-M802	-M1602	-
	1	2	0	-M803	-M1603	-
	1	3	0	-M804	-M1604	-



[www.austin-hughes.com/support/usermanual/cyberview/UM-CV-SKVM-KIT.pdf](http://www.austin-hughes.com/support/usermanual/cyberview/UM-CV-SKVM-KIT.pdf)

Combo DB-15 KVM 	Local	Remote		8-port	16-port	32-port
	1	0	1	-IP802	-IP1602	-
	1	1	0	-802	-1602	-
	1	0	0	-S801	-S1601	-

[www.austin-hughes.com/support/usermanual/cyberview/UM-CV-DVIKVM-KIT.pdf](http://www.austin-hughes.com/support/usermanual/cyberview/UM-CV-DVIKVM-KIT.pdf)

DVI-D KVM 	Local	Remote		12-port	-	-
	1	0	0	-1201D	-	-

[www.austin-hughes.com/support/usermanual/cyberview/UM-CV-USBKVM-KIT.pdf](http://www.austin-hughes.com/support/usermanual/cyberview/UM-CV-USBKVM-KIT.pdf)

USB Hub DB-15 KVM 	Local	Remote		8-port	16-port	32-port
	1	0	1	-IP802H	-IP1602H	-
	1	1	0	-802H	-1602H	-
	1	0	0	-801H	-1601H	-

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
X117 with KVM	441.6 x 580 x 44 mm 17.4 x 22.8 x 1.73"	590 x 808 x 140 mm 23.2 x 31.8 x 5.5"	12.1 kg 26.6 lb	18.1 kg 39.8 lb



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