

dedicated LCD display solutions

User Manual 15" FHD LCD

















Legal Information

First English printing, July 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.
- Wait until your monitor is completely dry before plugging it in and powering it up.

< 1.1 > Package Content

AP-F15 / NAP-F15 / HAP-F15 / HNAP-F15

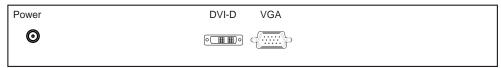


15" FHD LCD display X 1
6ft VGA cable X 1
Power adapter X 1
Power cord X 1

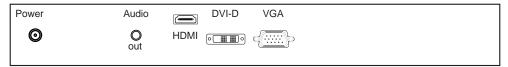
Mounting hardware X 1 pack

- Mounting bracket x 2 pcs
- M4* 6mm screw x 4 pcs
- M4* 50mm screw x 4 pcs

Basic I/O

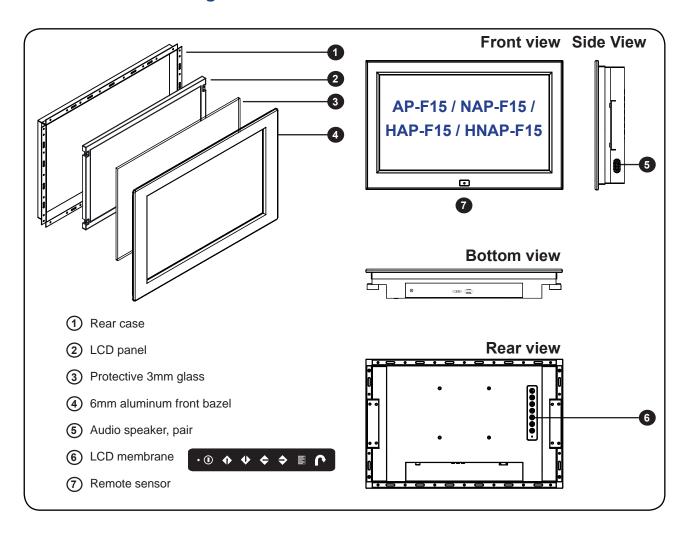


AV3.0 upgrade I/O with advanced features



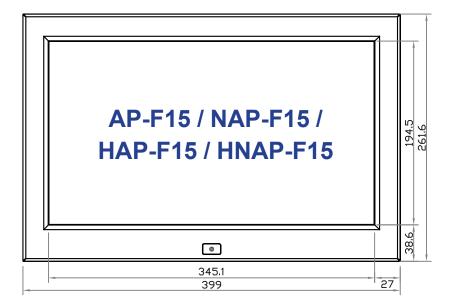
- An abundance of input connections that include HDMI, DVI-D, VGA and audio
- On-chip Faroudja® DCDi Cinema processing

< 1.2 > Structure Diagram

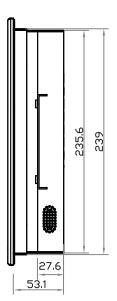


Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
AP-F15 NAP-F15 HAP-F15 HNAP-F15	399 x 53.1 x 261.6 mm 15.7 x 2.1 x 10.3 inch	615 x 113 x 523 mm 24.2 x 4.4 x 20.6 inch	4.7 kg 10.3 lb	7.3 kg 16.1 lb

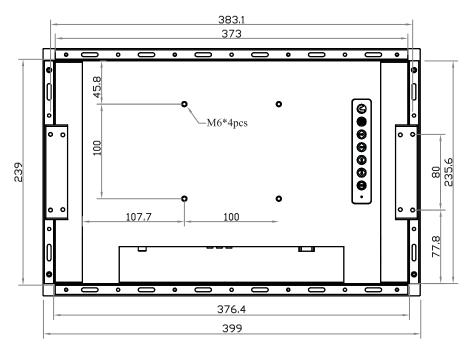
Front View



Side View

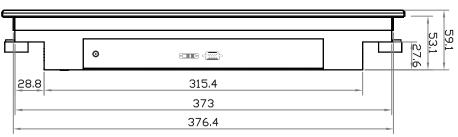


Rear View

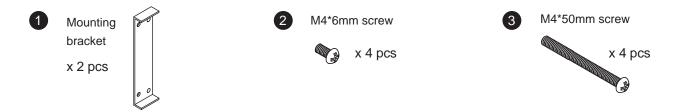


UNIT : mm 1mm = 0.03937 inch

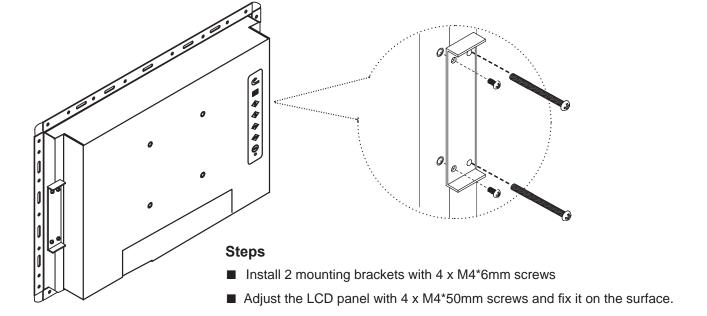
Bottom View



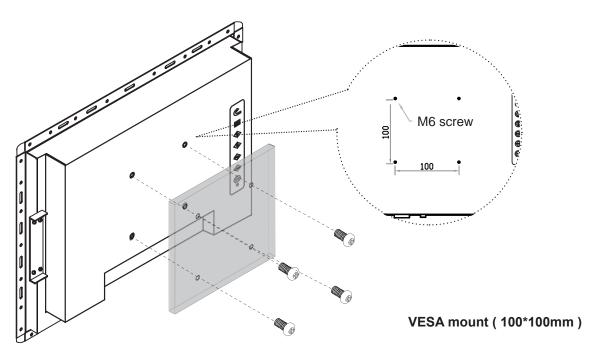
< 1.3 > Installation (I) Panel mount



Hardware set part no. UV-BK#1



(II) VESA mount (100*100mm)



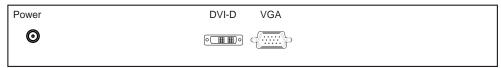
■ Hardware and M6*4 pcs for VESA mount are not provided

DP-F15 / HDP-F15

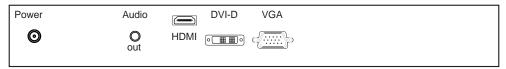


15" FHD LCD Display X 1
6ft VGA cable X 1
Power adapter X 1
Power cord X 1

Basic I/O

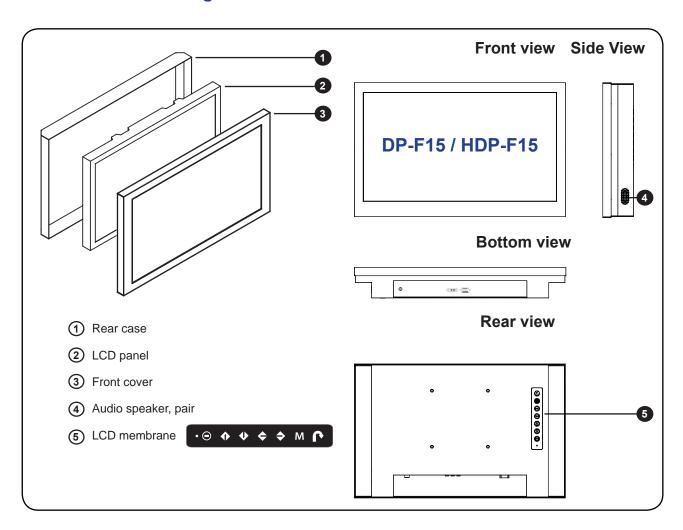


AV3.0 upgrade I/O with advanced features



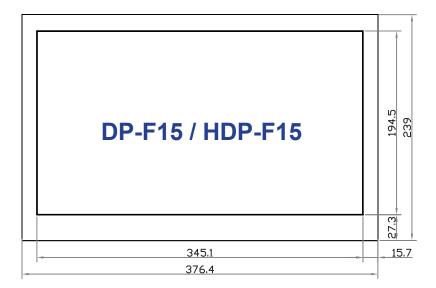
- An abundance of input connections that include HDMI, DVI-D, VGA and audio
- On-chip Faroudja® DCDi Cinema processing

< 2.2 > Structure Diagram

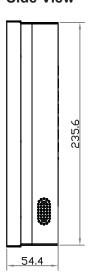


Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
DP-F15	376.4 x 54.4 x 239 mm	615 x 113 x 523 mm	4.1 kg	6.7 kg
HDP-F15	15 x 2.1 x 9.4 inch	24.2 x 4.4 x 20.6 inch	9 lb	14.7 lb

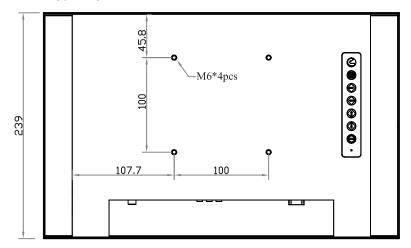
Front View



Side View

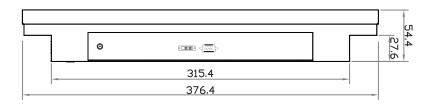


Rear View

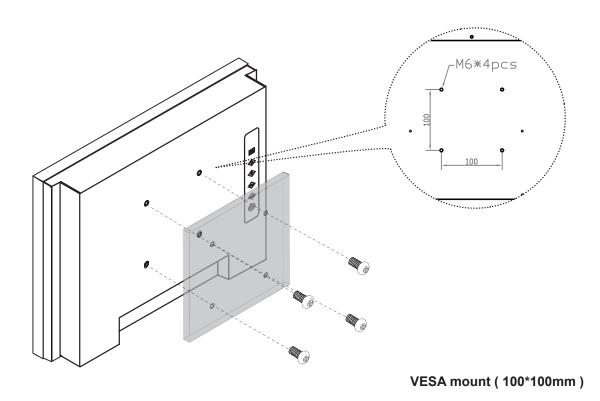


UNIT : mm 1mm = 0.03937 inch

Bottom View



< 2.3 > VESA Installation



■ Hardware and M6*4 pcs for VESA mount are not provided

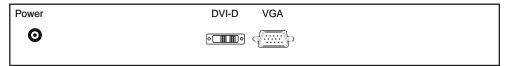
< 3.1 > Package Content

OP-F15 / HOP-F15

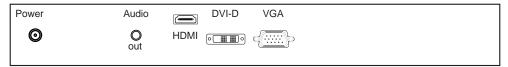


15" FHD LCD display X 1
6ft VGA cable X 1
Power adapter X 1
Power cord X 1

Basic I/O

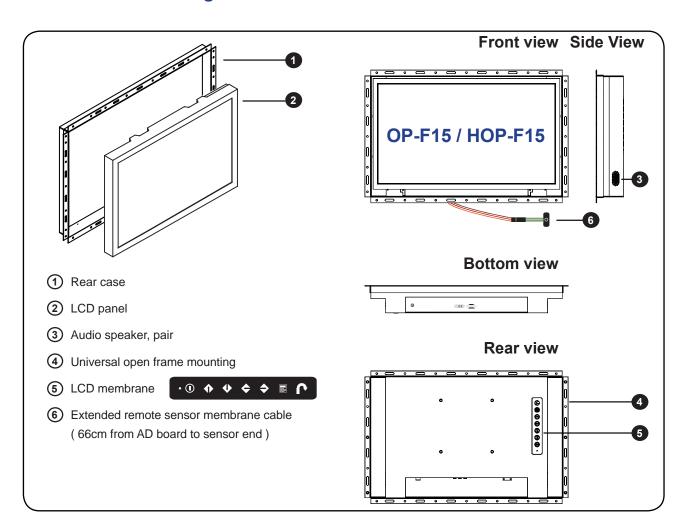


AV3.0 upgrade I/O with advanced features



- An abundance of input connections that include HDMI, DVI-D, VGA and audio
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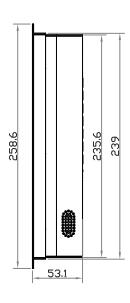
< 3.2 > Structure Diagram



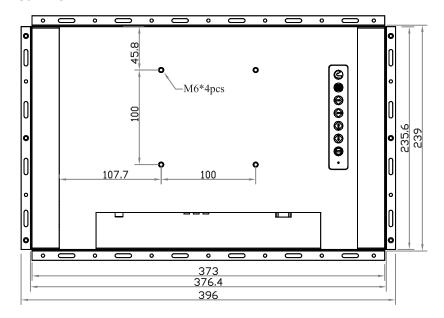
Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
OP-F15	396 x 53.1 x 258.6 mm	615 x 113 x 523 mm	3.5 kg	6.1 kg
HOP-F15	15.6 x 2.1 x 10.2 inch	24.2 x 4.4 x 20.6 inch	7.7 lb	13.4 lb

Front View

Side View

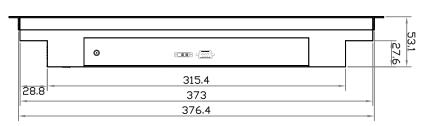


Rear View



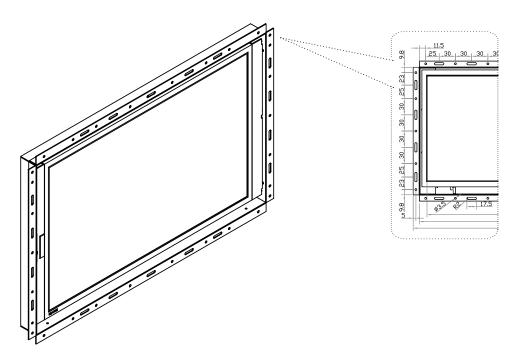
$UNIT:mm \\ 1mm = 0.03937 inch$

Bottom View

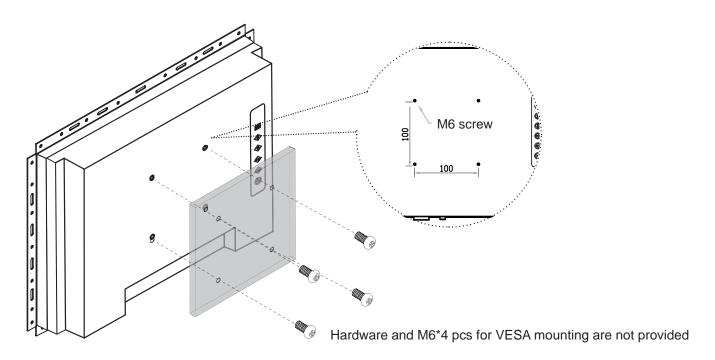


< 3.3 > Installation

(I) Universal mount



(II) VESA mount (100*100mm)



< 4.1 > Product Specifications

15" FHD LCD Display

Mechanical Design	AP-F15 / HAP-F15	NAP-F15 / HHAP-F15	DP-F15 / HDP-F15	OP-F15 HOP-F15
Protection	6mm front bezel	NEMA 4 / IP65	front cover	open frame
Front Panel	Black, RAL 9005			-
Rear Casing	Black, RAL 9005			
VESA mount 100 x 100 mm		00 mm		
Universal mount	-		-	ready
Desktop stnad	option		option	-
panel mount	bundled		-	-

LCD Panel	Standard	Sunlight Readable	
Brightness (cd/m ²)	300	1000∜€	
Contrast Ratio (typ.)	800:1	500:1	
Colors	16.7 M, 8-bit	16.2 M, 6-bit	
Viewing Angle (L/R/U/D)	89/89/89	70/70/60/60	
Response Time (ms)	30	8	
Dot pitch (mm)	0.0897	0.17925	
Display Area (mm)	344.448H x 193.752V	344.16H X 193.59V	
MTBF (hrs)	20,000	50,000	
Panel Size (diagonal)	15.6-inch Widescreen TFT color LCD		
Native Resolution	1920 x 1080		
Surface treatment	Anti-glare		
Surface hardness	3H		
Backlight Type	LED		

Video		
VGA	Analog 0.7Vp-p	
DVI	DVI-D single link	
Option HDMI	HDMI 1.4 / HDCP 1.4	

Audio Option	
Output Connector	3.5mm stereo jack
Resistance / Power level	30kΩ / 2.8V
Speaker: Dual Stereo	2W x 2

^{*}When the audio output is connected, speaker output is OFF

Power	Standard	Sunlight Readable	
Input	Auto-sensing 100 to 240VAC, 50 / 60Hz		
Consumption:			
Screen ON	Max. 24W	Max. 65W	
Power saving mode	Max. 9W	Max. 6W	
Power button OFF	Max. 2W	Max. 2W	

Compliance		
EMC	FCC & CE certified	
Safety	CE / LVD certified	
Environment	RoHS2 & REACH compliant	

< 4.1 > Product Specifications

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

Physical Specification	AP-F15 / HAP-F15	NAP-F15 / HHAP-F15	DP-F15 / HDP-F15	OP-F15 HOP-F15
Product (WxDxH)				
mm	399 x 59.	1 x 261.6	376.4 x 54.4 x 239	396 x 53.1 x 258.6
inch	15.7 x 2	.3 x 10.3	15 x 2.1 x 9.4	15.6 x 2.1 x 10.2
Packing (WxDxH)				
mm	615 x 113 x 523		615 x 113 x 523	615 x 113 x 523
inch	24.2 x 4.4 x 20.6		24.2 x 4.4 x 20.6	24.2 x 4.4 x 20.6
Net Weight	4.7 kg / 10.3 lb	4.7 kg / 10.3 lb	4.1 kg / 9 lb	3.5 kg / 7.7 lb
Gross Weight	7.3 kg / 16.1 lb		6.7 kg / 14.7 lb	6.1 kg / 13.4 lb
Chassis color	Dark			
Chassis materials	Aluminum			

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

Applicable Format		
DVI-D / VGA Input	PC Signal	1920 x 1080 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
	Audio Signal	2ch Linear PCM
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)
	Audio Signal	2ch Linear PCM

^{*} 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.

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



Membrane Switch Function



Power on / off LCD



Display the OSD menu





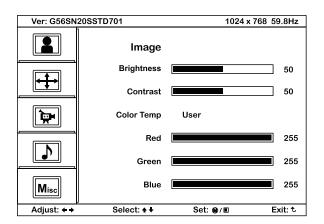


Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button \diamondsuit for 5 seconds)



Exit the OSD screen

Toggle analog, digital & video connection (DVI-D and video options only)



OSD Configuration Page



Image:

for the brightness, contrast, color temp, red, green, and blue



Geometry:

for the auto adjust, H position, V position, phase and clock



Video:

for the colour, tint, sharpness, noise reduction, DCDi and TV Setup



Audio:

for volume, bass, treble, balance, AVL and mute



Misc:

for the language, OSD position, graphic mode, ratio, reset and timer

< Part 5 > Options

< 5.1 > Option Table

Options	AP / NAP	HAP / HNAP	DP	HDP	ОР	НОР
SDI ***	/	✓	✓	✓	✓	✓
HDMI *	✓	✓	✓	✓	✓	✓
Audio	/	✓	✓	✓	✓	✓
Touchscreen	✓	✓	✓	✓	✓	✓
MCS multi-display control	/	✓	✓	✓	✓	✓
DC Power	✓	✓	✓	✓	✓	✓
MIL-type / lockable connector	/	/	✓	✓	√	/
Auto / switch dimming		/		✓		✓



*** About SDI

(1) The AD board will be upgraded to version 3.0, and this comes standard with HDMI, DVI-D, VGA, audio and RC-2 remote controller.

* About HDMI

- (1) If the user needs HDMI and DVI-D, AV3.0 upgrade can be applied.
- (2) 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.

15" FHD LCD Display



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

Designed for use with Crystal Image displays, an 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

Power	Audio	DVI-D VGA	
0	O out	HDMI • III • III	0 0
			out - in

*** For **SDI** option, the AD board comes standard with HDMI, DVI-D, VGA, audio inputs and RC-2 remote controller (please refer to P.20)

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 / Asynchronized Video

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

< 5.3 > Options : MCS

MCS (Multi-display Control)

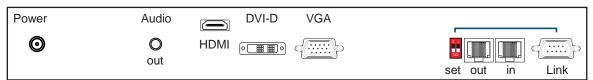


More control is always good. Especially when it is necessary and easy. Crystal Image provides MCS solution to control the **OSD** of various Crystal Image LCD display up to 64 units.

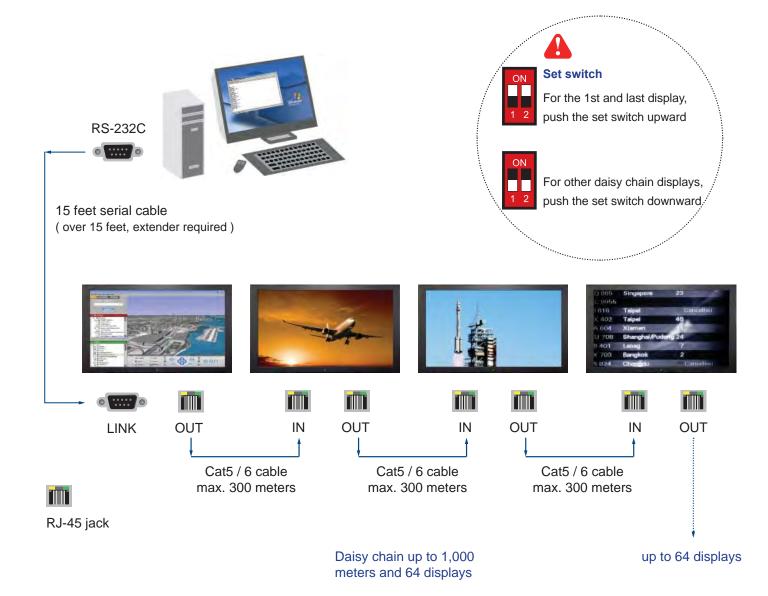
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

Designed for use with CIT LCD displays, Crystal Image provides a MCS input module without using additional space or power and it comes standard with a 2-year warranty.

MCS



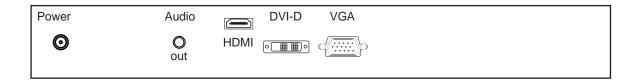
*** Please download the protocol of MCS control at : http://www.rackmountsales.com/v/.pdf/citummcs.pdf



< 5.4 > AV3.0 Upgrade Options :

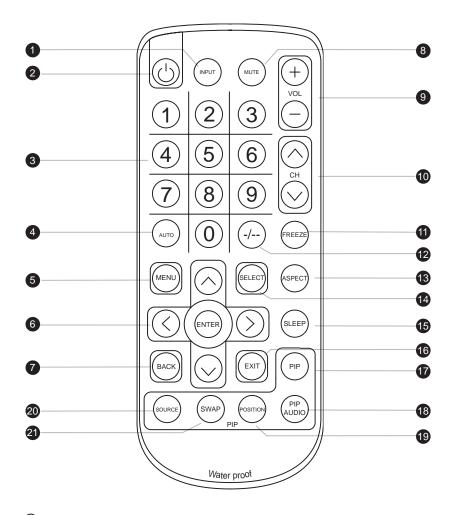
15" FHD LCD Display

 - HMDI (HDMI 1.4, CEA-861-E)
 - Audio (Built-in Dual Stereo Speakers, 2W x 2) (3.5mm audio jacks for audio in & out)



- (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.
- (2) AV3.0 upgrade option comes with RC-2 remote controller x 2 (please refer to P.20)

How to Use RC-2 Remote Controller



1	INPUT	Select the source
2	ტ	Switches on or off the TV
3	0 - 9	Only use in TV mode. Select channels. For channel numbers 10 and above, enter the second digit within two seconds.
4	AUTO	Auto adjust
(5)	MENU	Display the menu on the screen or go to the previous menu
6	▲ / ♥ / ◄ / ▶ / ENTER	Go to the upper menu or select the previous value / Go to the next menu or select the next value / Decrease the setting value / Increase the setting value or enter to the select item setting Enter to the select item settings or excude the setting
7	BACK	Back to previous value
8	MUTE	Turn on or off the speaker
9	Vol + / -	Increase or decrease the speaker volume
10	CH + / -	For TV model only, increase or decrease the channel number
11	FREEZE	Reserve for OEM model
① ①	- /	For setting input single or double digits
13	ASPECT	Adjust the screen size
(<u>1</u> 4)	SELECT	To select the existing item
<u>(15)</u>	SLEEP	Select the sleeping time
16	EXIT	Exit the menu or cancel
	PIP functions	
<u> 17</u>	PIP	Picture in picture
18	PIP AUDIO	To set the audio of in PIP mode
(19 (20 (21)	POSITION	To set the screen position in PIP mode
20	SOURCE	PIP Source
21	SWAP	Swap screen in PIP mode

< 5.5 > Options : Touchscreen & driver

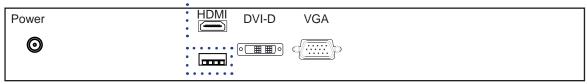


F15" USB Touchscreen Specification

Model	TPC-10 Multi-touch	TRB e-Resistive	
Technology	Projected Capacitive	5-Wire Resistive	
Touch Point	10	Single	
Input Type	USB	Finger or Stylus	
Resolution	4096 x 4096	2048 x 2048	
Touch Point Accuracy	± 2 mm	-	
Response Speed	< 5 ms	15 ms	
Activation Force	< 5 g	≤ 50 g	
Surface Hardness	6H	3H	
Light Transmission	> 85%	80% ± 3%	
Haze	3% ↓ 8% ± 3%		
Durability	50 million touches	nes 10 million touches	
Top Layer	1.8 mm Glass ITO Film		
Bottom Layer	Bottom Layer 0.7 mm Sensor Glass		
Thickness	2.7 ± 0.1 mm	2.2 ± 0.2 mm	
Connector	USB USB Type A		
Compatibility	Linux / Android / Windows / Mac	Windows 7 / XP / Vista, Linux	

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

USB Touch creen



< 5.5 > Options : Touchscreen & driver



TPC-10 Driver



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

TRB Driver

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

- Step 1. Run the bundled CD disc or download the driver from the link below : http://www.eeti.com/tw
- 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





Model	12V	24V	48V	125V
Input rating				
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	749 mA
Output rating				
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	6.25A
Efficiency	84%	85%	85%	91%

*** For DC power option :

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



< 5.7 > Options : MIL-type or Lockable Connector

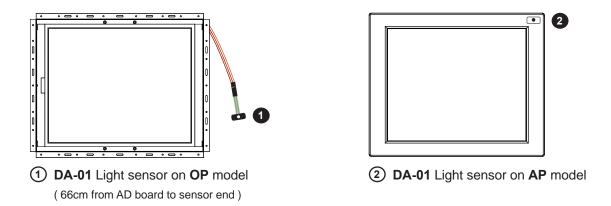
	Input	Part no.	MIL Standard
MIL - type Connector	DC Power *** (Male)	MS3470W8-33P	MIL - DTL - 26482
	VGA *** (Male)	MS3470W14-15P	MIL - DTL - 26482

^{***} 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 flexibility 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.

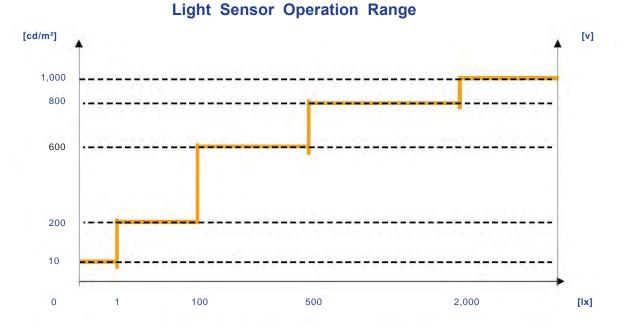
< 5.8 > Options for Sunlight Readable : Auto Dimming 15" FHD LCD Display



DA-01 light sensor installed on the display front panel. Users can set auto dimming ON or OFF from OSD menu. Then display brightness changes according to its ambient brightness. Each change causes 10% increase or decrease on display brightness.

Once the auto dimming is ON, users cannot adjust brightness from OSD menu.

Steps: OSD Menu > Picture > Auto Dimming > ON



Options: Switch Dimming

DS-01 is a IP54 dimming knob installed on the bottom right side of the front panel. The display can support hyper dimming function to adjust brightness from nearly 0% to 100% via the easy-to-use knob. One click on dimming knob causes 2% increase or decrease on display brightness.



< 6 > Ultraview F15 Family

300 cd/m² Brightness

6mm aluminum front bezel



AP-F15

6mm aluminum front bezel NEMA 4 / IP65 front protection



NAP-F15

Aluminum front cover



DP-F15

Universal open frame



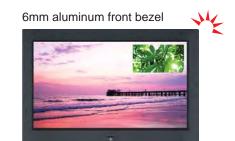
OP-F15

MP-F15

Industrial Display Kit

- FHD 15" LED
- LCD controller
- AC power

1000 cd/m² Sunlight Readable Brightness



HAP-F15



HNAP-F15



HDP-F15



HOP-F15

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