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User Manual 19" Widescreen High Brightness LCD



ID-H19Aw-LED
Front NEMA4 / IP65



ID-H19Pw-LED
Universal Mounting Open Frame



REACH

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.

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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.



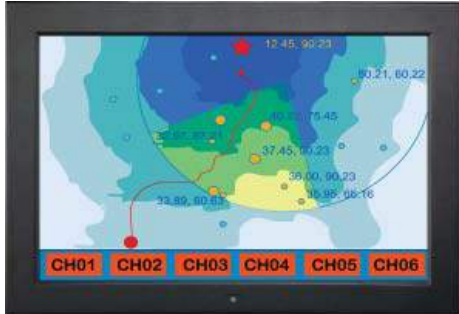
Caution : Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.

- 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 - ID-H19Aw-LED

ID-H19Aw-LED

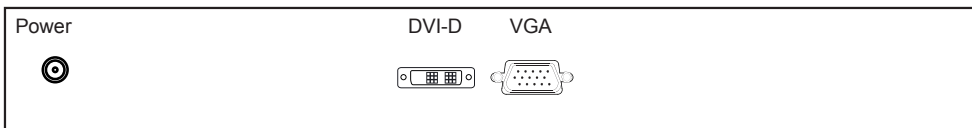


- W19" High Brightness LCD display X 1**
- 6ft VGA cable X 1**
- Power adapter X 1**
- Power cord X 1**

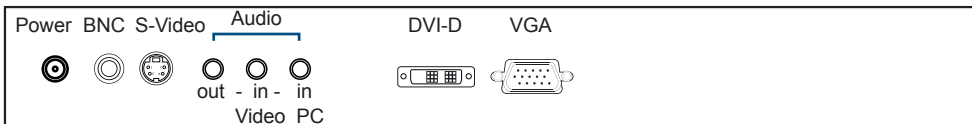
Mounting hardware X 1 pack

- Mounting bracket x 4 pcs
- M4* 6mm screw x 8 pcs
- M4* 50mm screw x 8 pcs

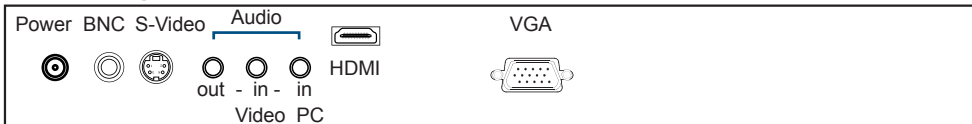
Basic I/O



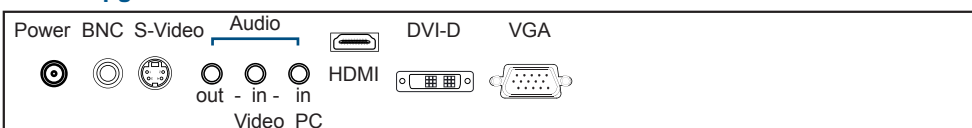
Ver 2.2D upgrade I/O



Ver 2.2H upgrade I/O

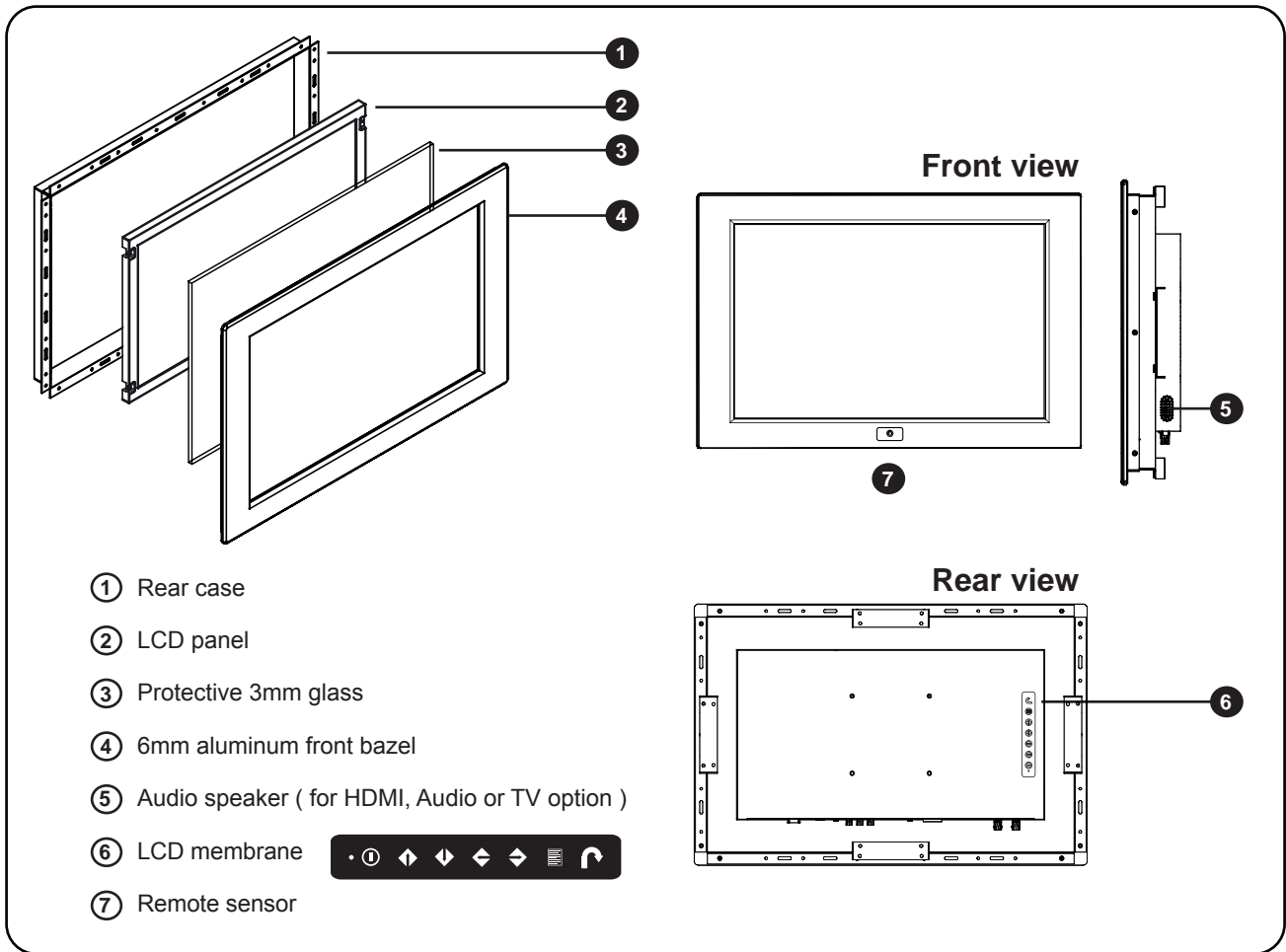


Ver 3.0 upgrade I/O with advanced features



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

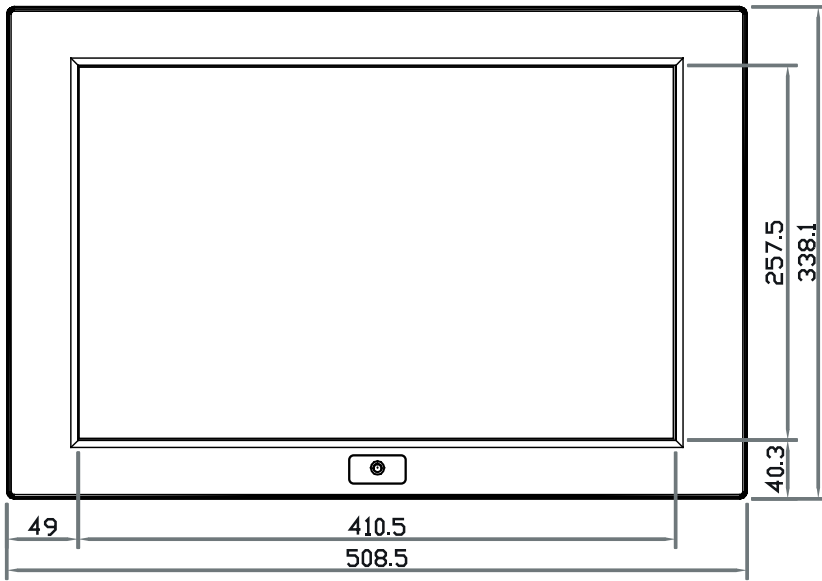
< 1.2 > Structure Diagram - ID-H19Aw-LED



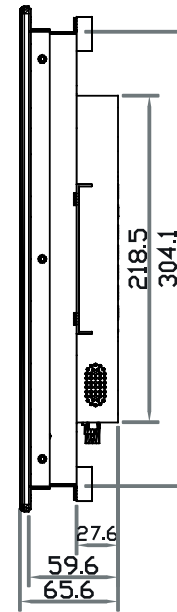
Model	Product Dimension (W x D x H)	Net Weight
ID-H19Aw-LED	508.5 x 65.6 x 338.1 mm 20 x 2.6 x 13.3 inch	5 kg 11 lbs

< 1.2 > Dimension - ID-H19Aw-LED

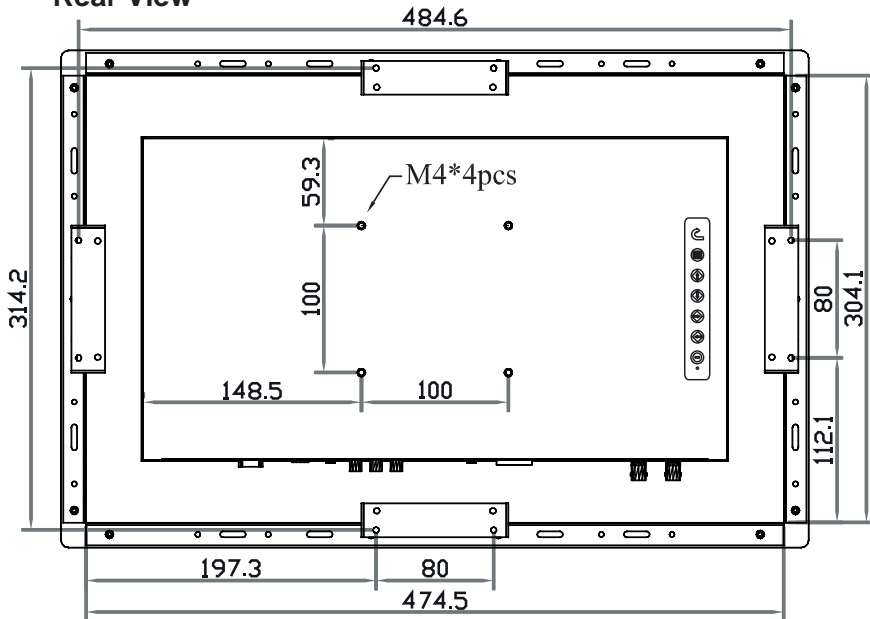
Front View



Side View

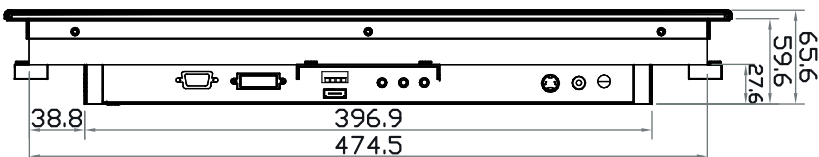


Rear View



UNIT : mm
1mm = 0.03937 inch

Bottom View



< 1.3 > Panel Mount Installation - ID-H19Aw-LED

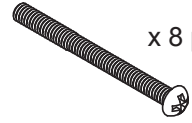
1 Mounting
bracket
x 4 pcs



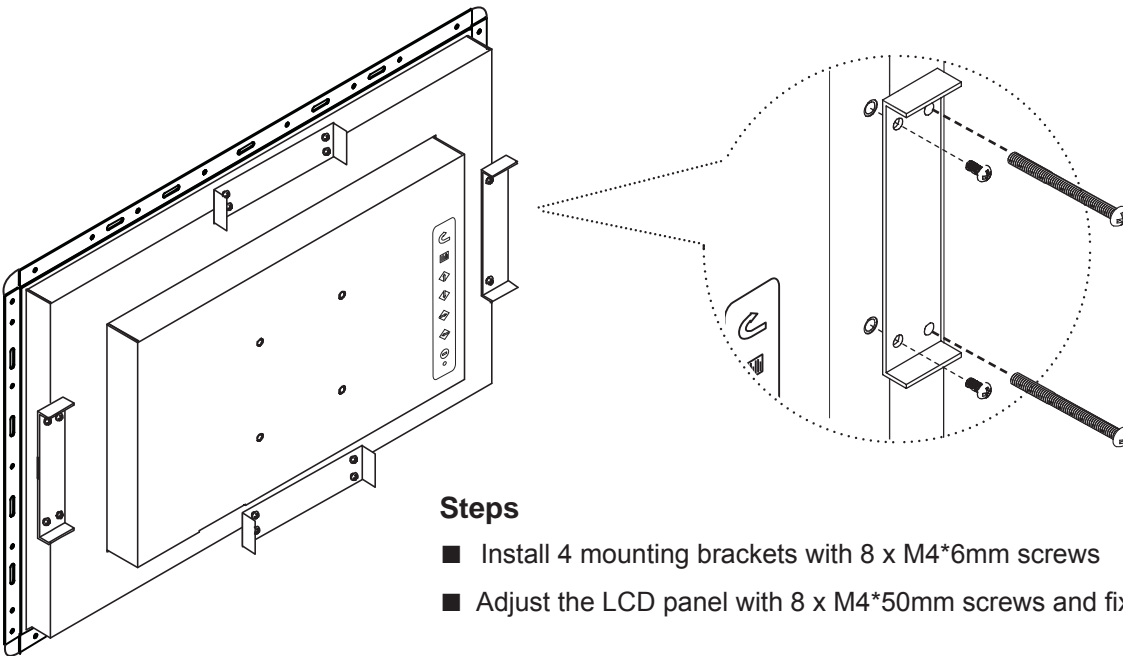
2 M4*6mm screw
x 8 pcs



3 M4*50mm screw
x 8 pcs



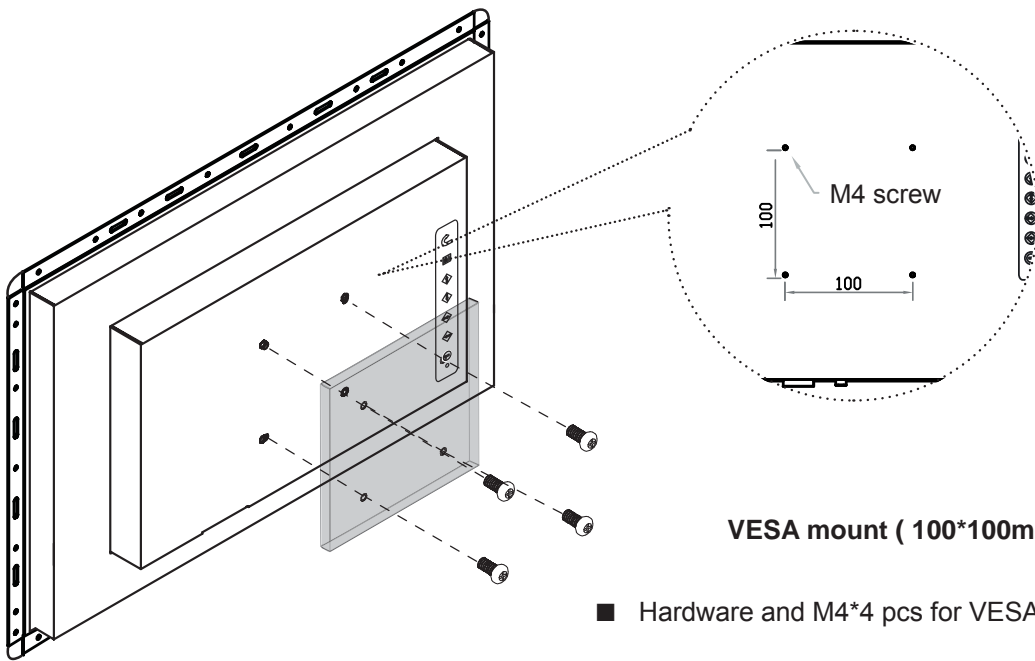
Hardware set part no. UV-BK#2



Steps

- Install 4 mounting brackets with 8 x M4*6mm screws
- Adjust the LCD panel with 8 x M4*50mm screws and fix it on the surface.

< 1.3 > VESA mount Installation - ID-H19Aw-LED



< Part 2 >

< 2.1 > Package Content - ID-H19Pw-LED

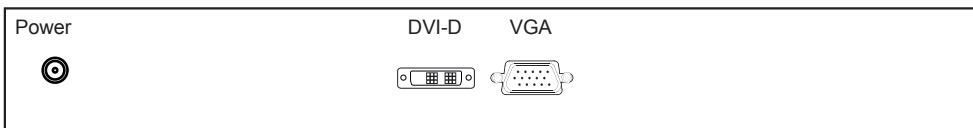
ID-H19Pw-LED



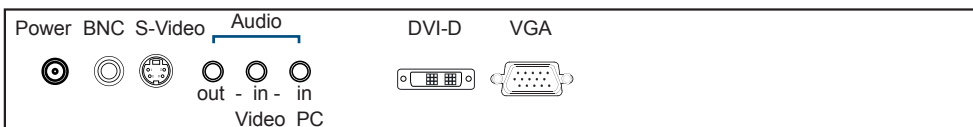


W19" High Brightness LCD display X 1
6ft VGA cable X 1
Power adapter X 1
Power cord X 1

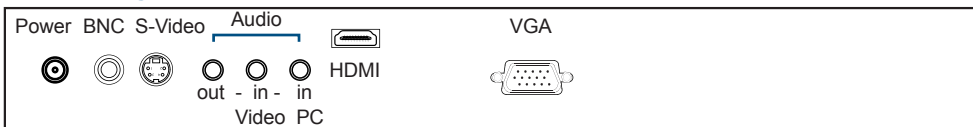
Basic I/O



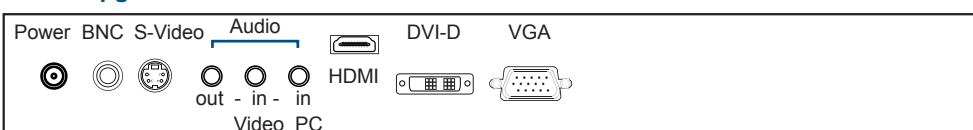
Ver 2.2D upgrade I/O



Ver 2.2H upgrade I/O

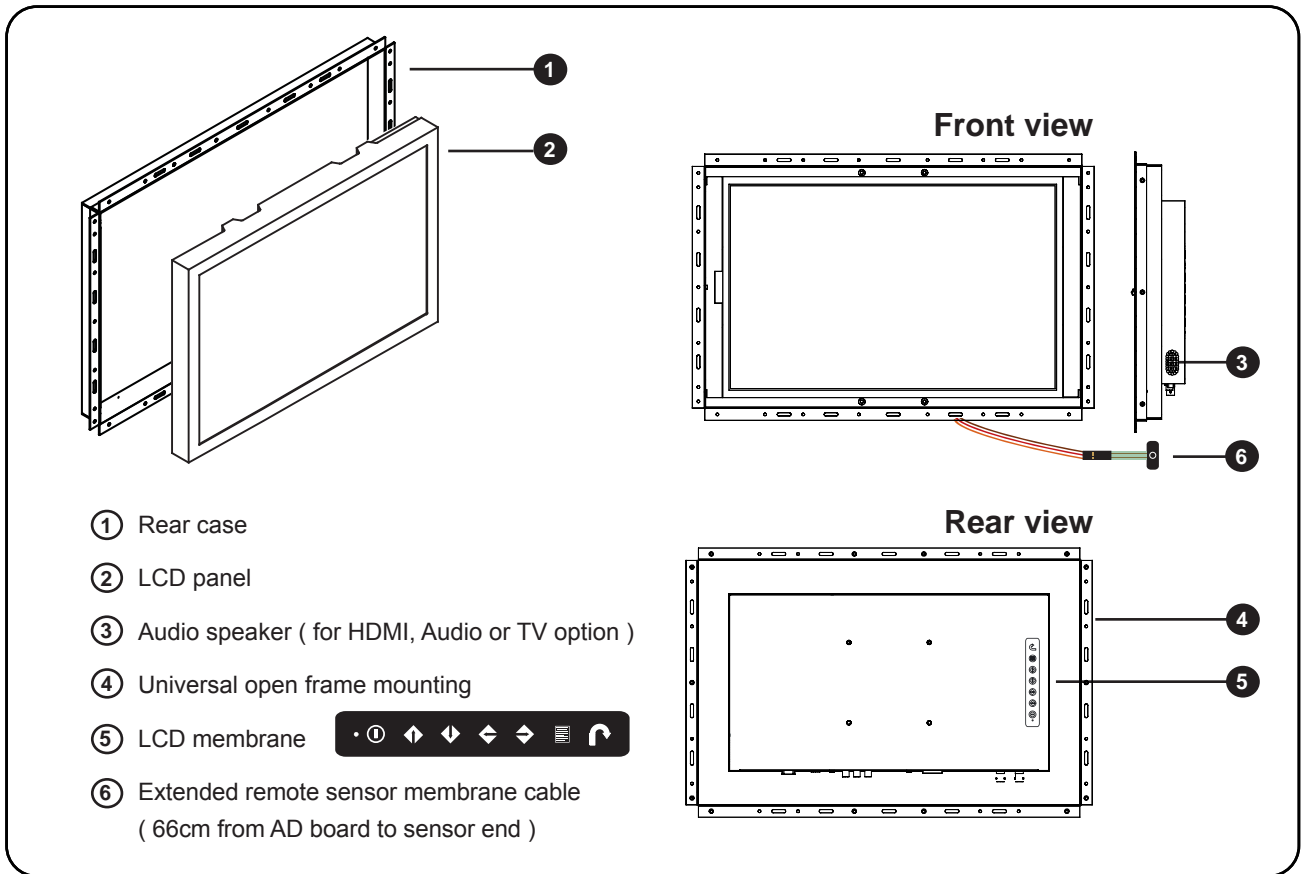


Ver 3.0 upgrade I/O with advanced features



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

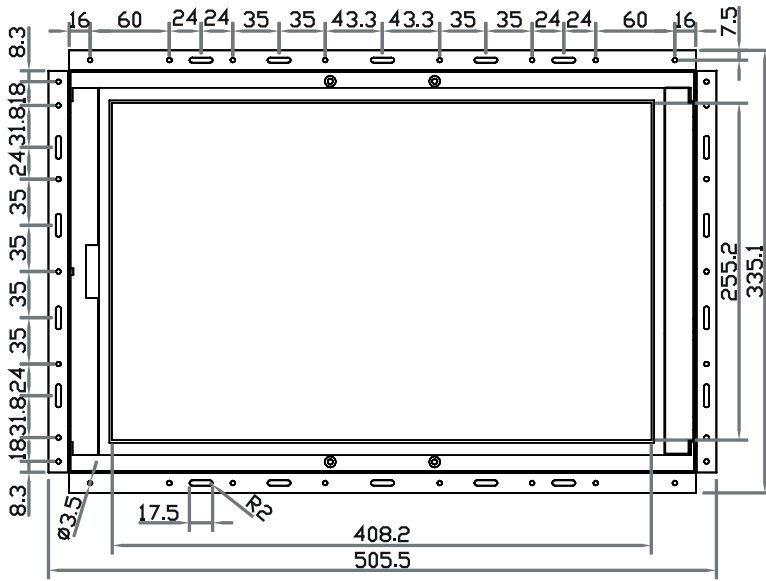
< 2.2 > Structure Diagram - ID-H19Pw-LED



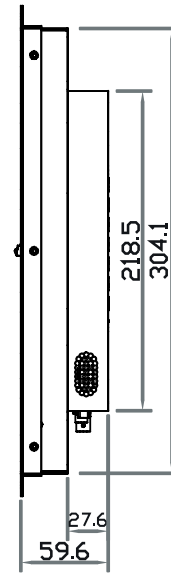
Model	Product Dimension (W x D x H)	Net Weight
ID-H19Pw-LED	505.5 x 59.6 x 335.1 mm 19.9 x 2.3 x 13.2 inch	5 kg 11 lbs

< 2.2 > Dimension - ID-H19Pw-LED

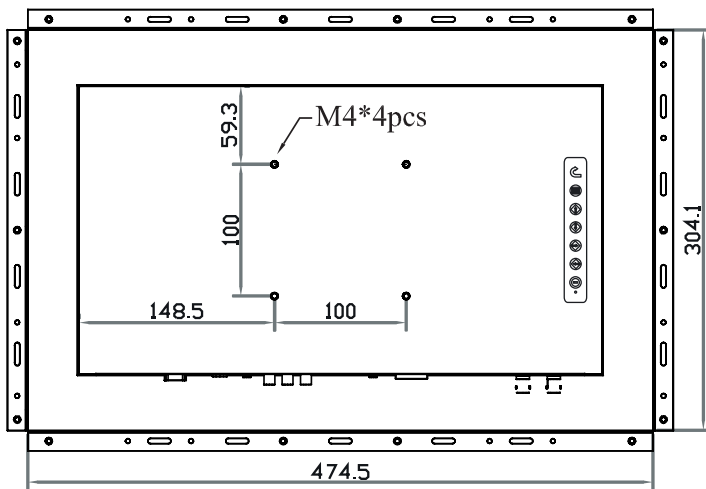
Front View



Side View

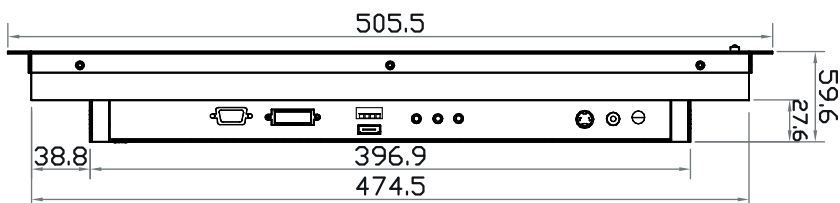


Rear View



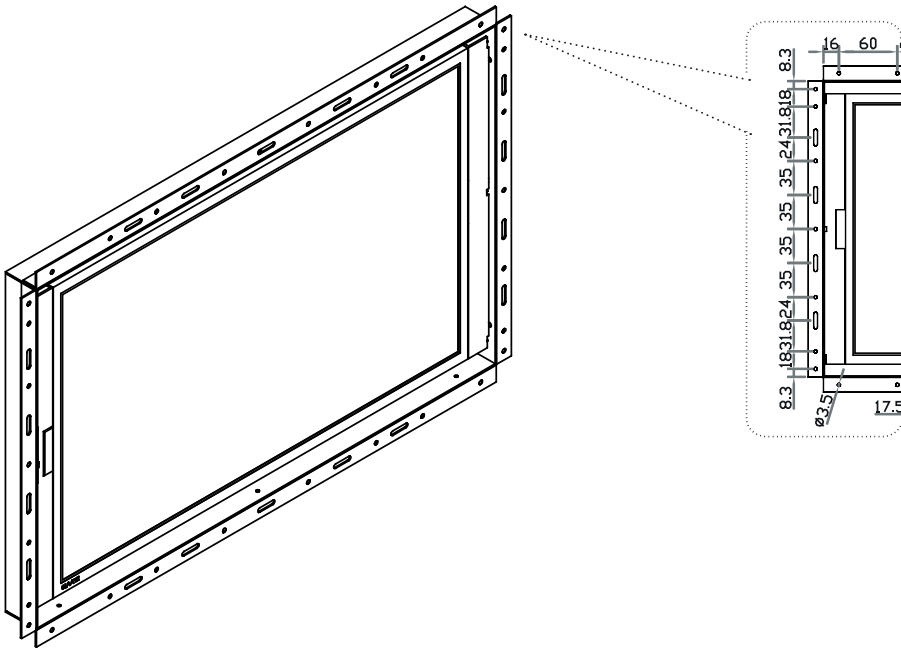
UNIT : mm
1mm = 0.03937 inch

Bottom View

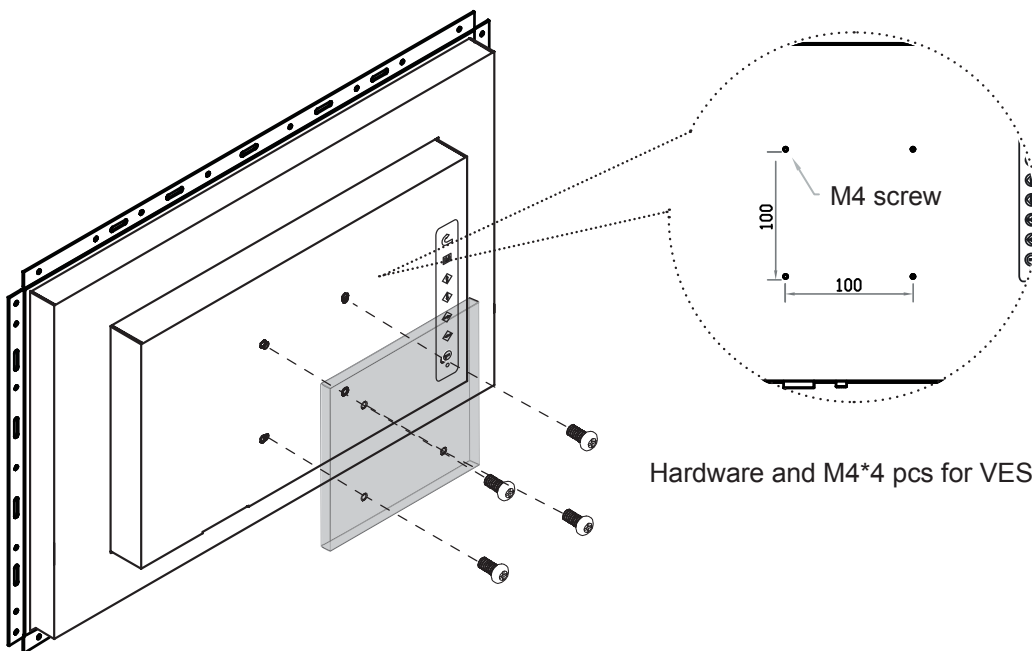


< 2.3 > Installation - ID-H19Pw-LED

(I) Universal mount



(II) VESA mount (100*100mm)



Hardware and M4*4 pcs for VESA mounting are not provided

< Part 3 >

< 3.1 > Product Specifications

Mechanical Design		ID-H19Aw-LED	ID-H19Pw-LED
	Front Panel	Black, RAL 9005	-
	Rear Casing	Dark grey, RAL 7037	Dark grey, RAL 7037
	VESA Mounting	100 x 100mm	100 x 100mm
	Other Mounting	Panel mount	Universal mount
	Protection	3mm protective glass	-

LCD Panel	Panel Size (diagonal)	19-inch Widescreen TFT color LCD
	Display pixel (dots x lines)	1440 x 900
	Brightness (typ.)	1000
	Contrast Ratio (typ.)	1000:1
	Color	16.7 M
	Viewing Angle (L/R/U/D)	80/80/80/80
	Response Time (ms)	5
	Dot pitch (mm)	0.2835
	Display Area (mm)	408.24H x 255.15V
	Surface treatment	Haze 25%, Hard-coating
	Surface hardness	3H
	Backlight Type	LED
	MTBF (hrs)	50,000

Video Connectivity	Analog	VGA	Analog 0.7Vp-p

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50/60Hz
	Power Consumption	Screen display ON	35W or less
		Power saving mode	4W or less
		Power button OFF	1W or less

Regulatory	Safety	FCC & CE certified
	Environmental	RoHS2 & REACH compliant

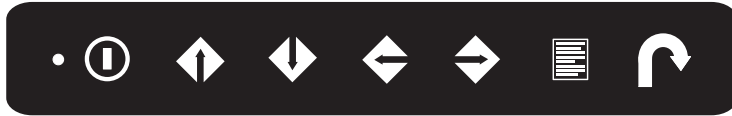
Environmental Conditions	Operating	Temperature	0 to 50°C degree
		Humidity	20~90%, non-condensing
	Storage	Temperature	-5 to 60°C degree
		Humidity	5~90%, non-condensing
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

Physical Specification		ID-H19Aw-LED	ID-H19Pw-LED
	Product (W x D x H)	508.5 x 65.6 x 338.1 mm 20 x 2.6 x 13.3 inch	505.5 x 59.6 x 335.1 mm 19.9 x 2.3 x 13.2 inch
	Net Weight	5 kgs / 11 lbs	5 kgs / 11 lbs

Applicable Format	VGA Input	PC Signal	1440 x 900 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 960 x 60Hz
			1280 x 760 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

< 3.2 > 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)

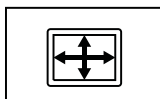
Ver: G56SN20SSTD701 1024 x 768 59.8Hz

	Image
	Brightness 50
	Contrast 50
	Color Temp User
	Red 255
	Green 255
	Blue 255
Adjust:	Select: Set: Exit:

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 4 > Options

< 4.1 > Option Table

Basic Option	A	P
SDI ***	✓	✓
HDMI * or DVI-D	✓	✓
S-Video * + Composite (BNC)	✓	✓
Audio	✓	✓
Touchscreen	✓	✓
MCS multi-display control	✓	✓
DC Power	✓	✓
MIL-type / lockable connector	✓	✓
Quad display	✓	✓
TV (Analog) *	✓	✓
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, S-Video, BNC, audio inputs and remote controller.

* About HDMI and DVI-D

(1) For Ver 2.2 upgrade, either HDMI or DVI-D is provided.

(2) If the user needs HDMI and DVI-D, Ver 3.0 upgrade can be applied.

* Remote Controller

(1) Ver 2.2 upgrade comes with remote controller.

(2) TV option comes with remote controller.

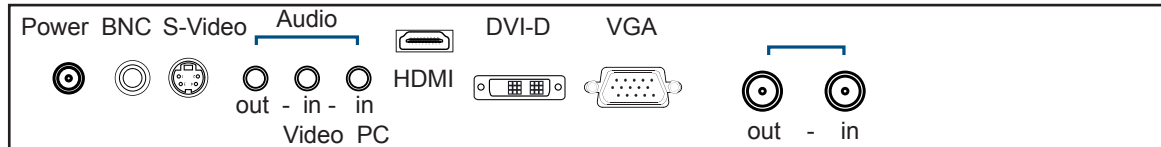
< 4.2 > Options : 3G / HD / SD-SDI input



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

Designed for use with Full HD 1080p and ultra high resolution 1920 x 1200 LCD displays, we provide a SDI input module without using additional space or power.

SDI



*** For **SDI** option, the AD board will be upgraded to Ver 3.0, and this comes standard with HDMI, DVI-D, VGA, S-Video, BNC, audio inputs and remote controller (please refer to P.17)

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

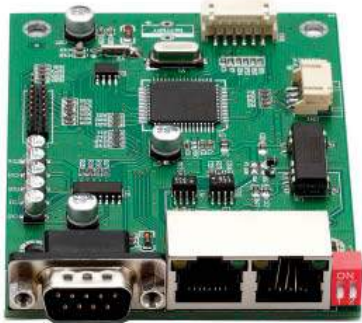
Compatible Video Format	3G-SDI	1080p @60 / 50Hz, 4:2:2
		1080p @30 / 25 / 24Hz, 4:4:4
		1080i @60 / 50Hz, 4:4:4
		720p @60 / 50Hz, 4:4:4
	HD-SDI	1080p @30 / 25 / 24Hz, 4:2:2
		1080i @60 / 50Hz, 4:2:2
		720p @60 / 50Hz, 4:2:2
	SD-SDI	480i @60Hz, 4:2:2
	ITU-R BT.656	576i @50Hz, 4:2:2

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

< 4.3 > Options : MC (Multi-display Control)

MC (Multi-display Control)

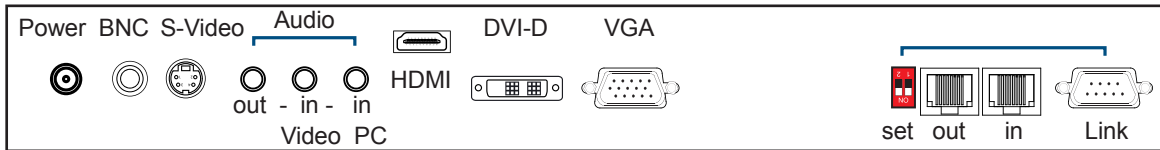


More control is always good. Especially when it is necessary and easy. Synergy Global Technology provides MC solution to control the OSD of various Industrial LCD displays up to 64 units.

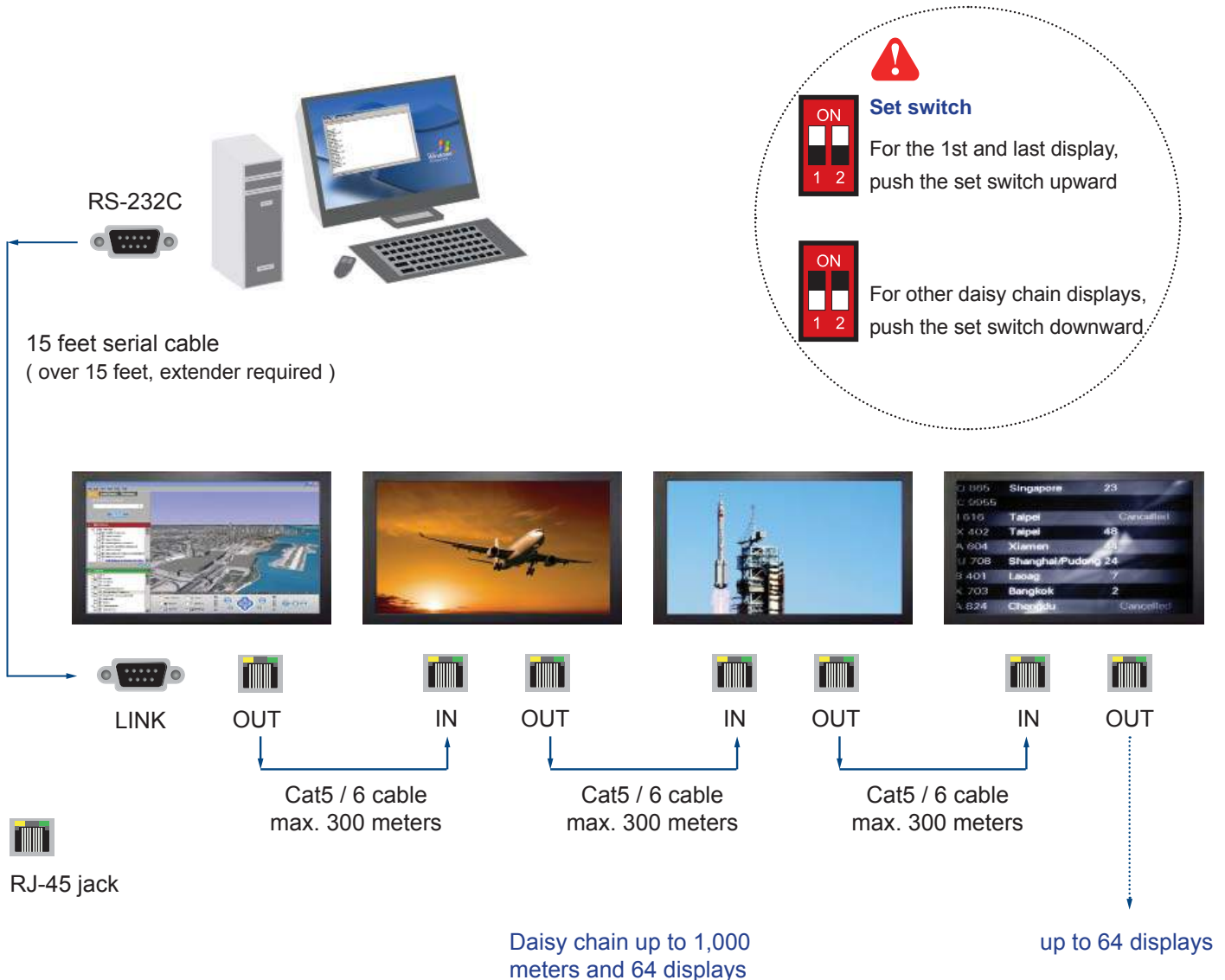
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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

MC



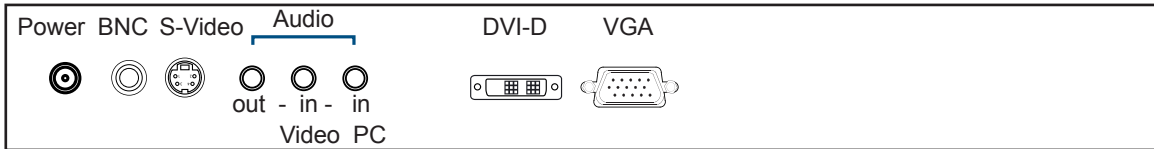
*** Please download the protocol of MCS control at :
<http://www.rackmountmart.com/downloads.html>



< 4.4 > Options :

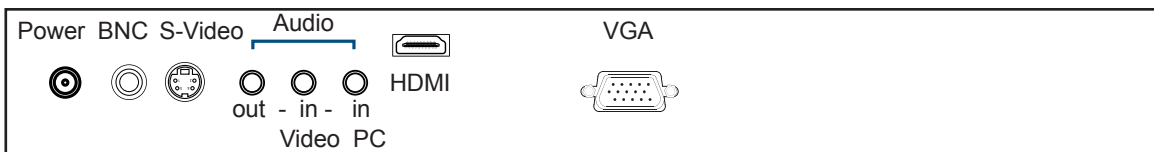
Ver 2.2D Upgrade Options

- **DVI-D** (DVI-D TMDS single link)
- **AV** (S-Video + Composite, BNC)
- **Audio** (3.5mm audio jacks for audio in & out, and 2W + 2W speakers)



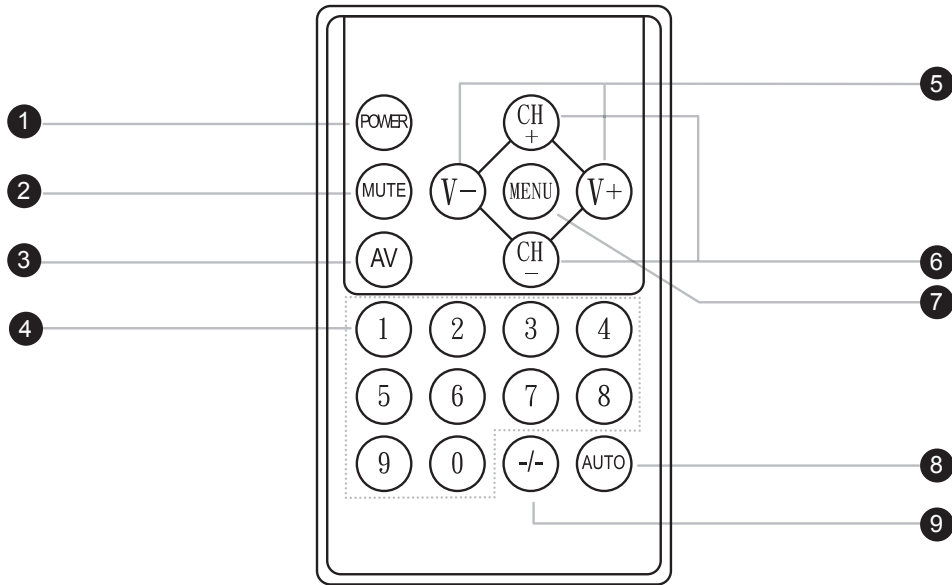
Ver 2.2H Upgrade Options

- **HDMI** (HDMI 1.1, CEA-861-D)
- **AV** (S-Video + Composite, BNC)
- **Audio** (3.5mm audio jacks for audio in & out, and 2W + 2W speakers)



Ver 2.2 upgrade option comes with remote controller x 1.

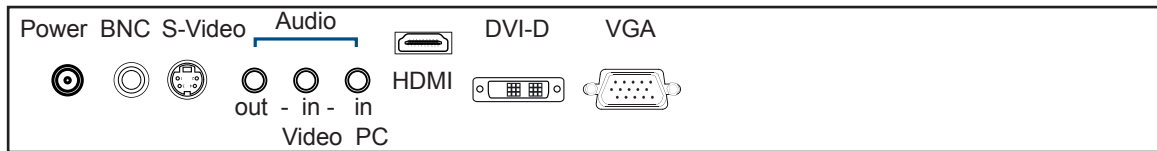
How to Use Remote Controller



①	POWER	Switches on or off the TV
②	MUTE	Turn on or off the speaker
③	AV	Switch to AV mode
④	0-9	Select channels. For channel numbers 10 and above, enter the second digit within two seconds.
⑤	V +/-	Increase or decrease the speaker volume
⑥	CH +/-	Increase or decrease the channel number
⑦	MENU	Display the menu on the screen or go to the previous menu
⑧	AUTO	For auto searching
⑨	-/-	For setting one or two input digit

< 4.5 > Ver 3.0 Upgrade Options :

- **HMDI** (HDMI 1.1, CEA-861-D)
- **DVI-D** (DVI-D TMDS single link)
- **AV** (S-Video + Composite, BNC)
- **Audio** (3.5mm audio jacks for audio in & out, and 2W + 2W speakers)



< 4.6 > Options : Touchscreen & driver

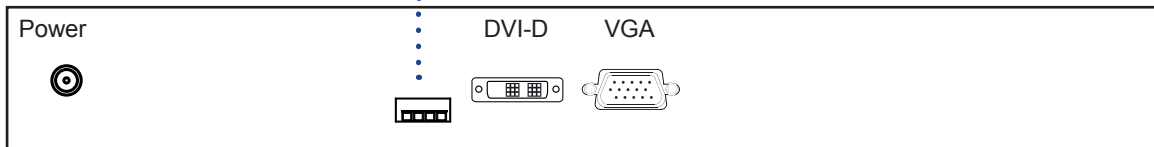


19" USB Touchscreen Specification

Model	TRB Resistive	TCB Capacitive
Technology	5-Wire Resistive	Capacitive
Touch Point	Single	Single
Input Type	Finger or Stylus	Finger
Resolution	2048 x 2048	2048 x 2048
Touch Point Accuracy	-	-
Response Speed	15 ms	20 ms
Activation Force	≤ 50 g	≤ 50 g
Surface Hardness	3H	9H
Light Transmission	80% ± 3%	92% ± 2%
Haze	8% ± 3%	7%
Durability	10 million touches	300 million touches
Top Layer	ITO Film	Glass
Bottom Layer	ITO Glass	
Thickness	3.2 ± 0.2 mm	2.8 mm ± 10%
Connector	USB Type A	USB Type A
Compatibility	Windows 7 / XP / Vista, Linux	

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

USB Touchscreen



< 4.6 > Options : Touchscreen & driver



TRB / TCB Driver

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

Step 1. Run the bundled CD disc or download the driver from the link below :

<http://www.rackmountmart.com/downloads.html>

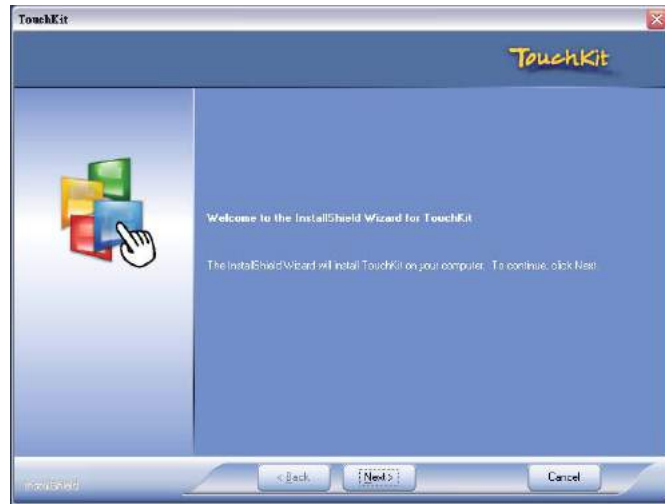
Step 2. Double click the Setup.exe

Step 3. Follow the installation instruction to finish the setup

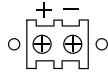
Step 4. After installation, run the TouchKit program & the “4 point calibration”



Please do the initial calibration
after the first setup





< 4.7 > Options : DC Power





Model	24V	48V
Input rating		
Input voltage:	24-Volt	48-Volt
Input range:	18 ~ 36V	36 ~ 75V
Input current		
- No load	50 mA	50 mA
- Full load	4880 mA	2442 mA
Output rating		
Output voltage:	12-Volt	12-Volt
Output current:	8.3A	8.3A
Efficiency	85%	86%

< 4.8 > Options : MIL-type or Lockable Connector

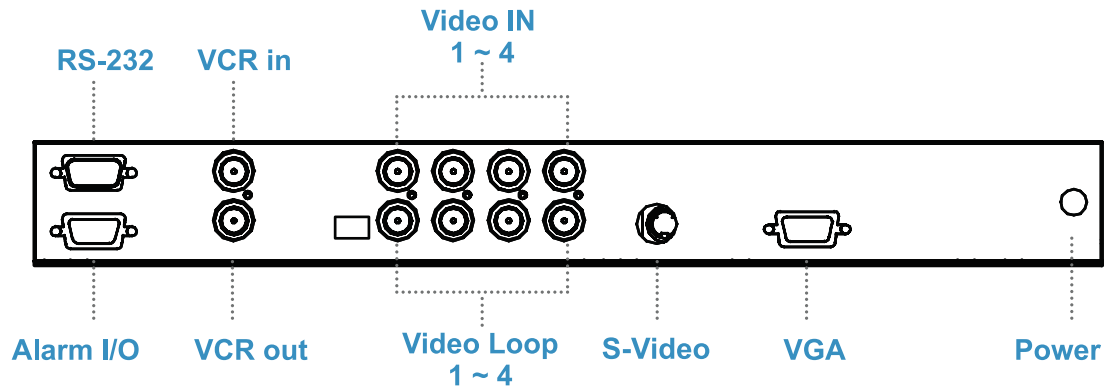
	Input	Part no.	MIL Standard
MIL - type Connector	DC Power *** (Male)	-MD (MS3470W8-33P) 	MIL - DTL - 26482
	VGA *** (Male)	-MA (MS3470W14-15P) 	MIL - DTL - 26482

*** 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)	-LD 	D-type 3W3
	USB	-LS 	

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

< 4.9 > Options : Quad Display

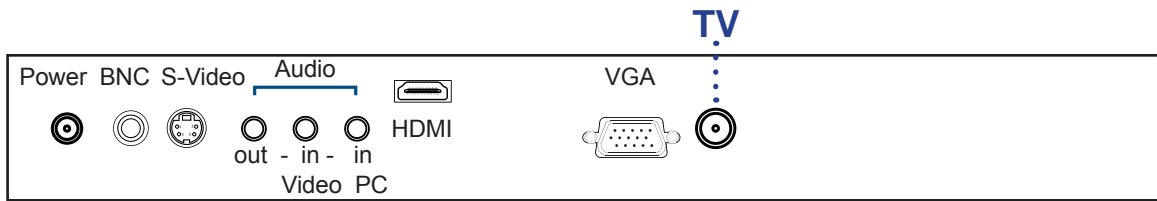


QD Specification

Item		Description
Model Number		QD (NTSC) QD (PAL)
Number of Color		16.7 M 16.7 M
Imaging System		NTSC PAL
Resolution		1024 x 525 1024 x 625
Refresh Rate		60 50
Video Input	Camera Input	1.0 Vpp, 75 Ohm x 4
	VCR Input	1.0 Vpp, 75 Ohm x 1
Video Output	Live Monitor	1.0 Vpp, 75 Ohm x 1
	Loop Through Out	1.0 Vpp, 75 Ohm x 4
	VCR Output	1.0 Vpp, 75 Ohm x 1
Auto Gain Control		Yes
Time / Date		Yes
On Screen Display		Yes
Camera Title		8 Character Title
Display Format	2 x Zoom On Playback	Yes
	QUAD	Yes
	FULL	Yes
	SEQUENCY	Yes
Dwell Time		0 to 99 Sec Adjustable
Alarm Inputs		Selectable NO/NC Contacts x 4
Relay Outputs		NO/NC contacts x 1: 1A @DC24V Max.
Alarm Hold Time		1 Sec to Non-stop
Built-in Buzzer		Yes
Key Lock		Yes

***** For QD option, casing dimensions will be changed.**

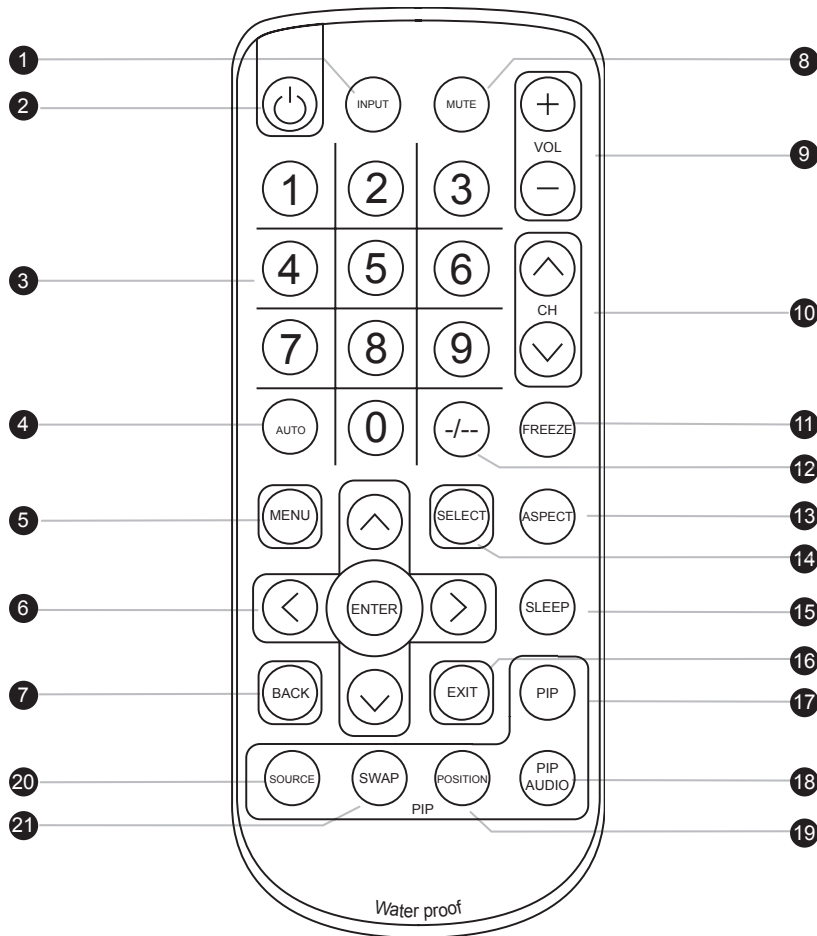
< 4.10 > Options : TV (Analog)



*** For TV option :

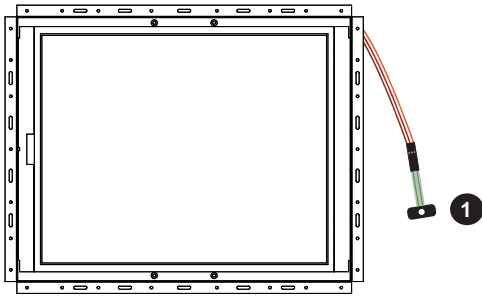
- (1) The AD board comes standard with HDMI, VGA, S-Video, BNC, audio inputs and remote controller.
- (2) Casing dimensions will be changed.

How to Use TV Remote Controller

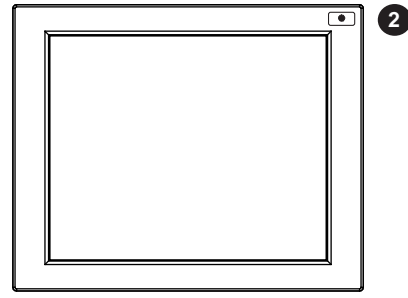


①	INPUT	Select the source
②		Switches on or off the TV
③	0 - 9	Only use in TV mode. Select channels. For channel numbers 10 and above, enter the second digit within two seconds.
④	AUTO	Auto adjust
⑤	MENU	Display the menu on the screen or go to the previous menu
⑥	▲ / ▼ / ◀ / ▶ / ENTER	Go to the upper 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
⑫	- / --	For setting input single or double digits
⑬	ASPECT	Adjust the screen size
⑭	SELECT	To select the existing item
⑮	SLEEP	Select the sleeping time
⑯	EXIT	Exit the menu or cancel
PIP functions		
⑰	PIP	Picture in picture
⑱	PIP AUDIO	To set the audio of in PIP mode
⑲	POSITION	To set the screen position in PIP mode
⑳	SOURCE	PIP Source
㉑	SWAP	Swap screen in PIP mode

< 4.11 > Options : Auto Dimming



① DA-01 Light sensor on **OP** model
(66cm from AD board to sensor end)



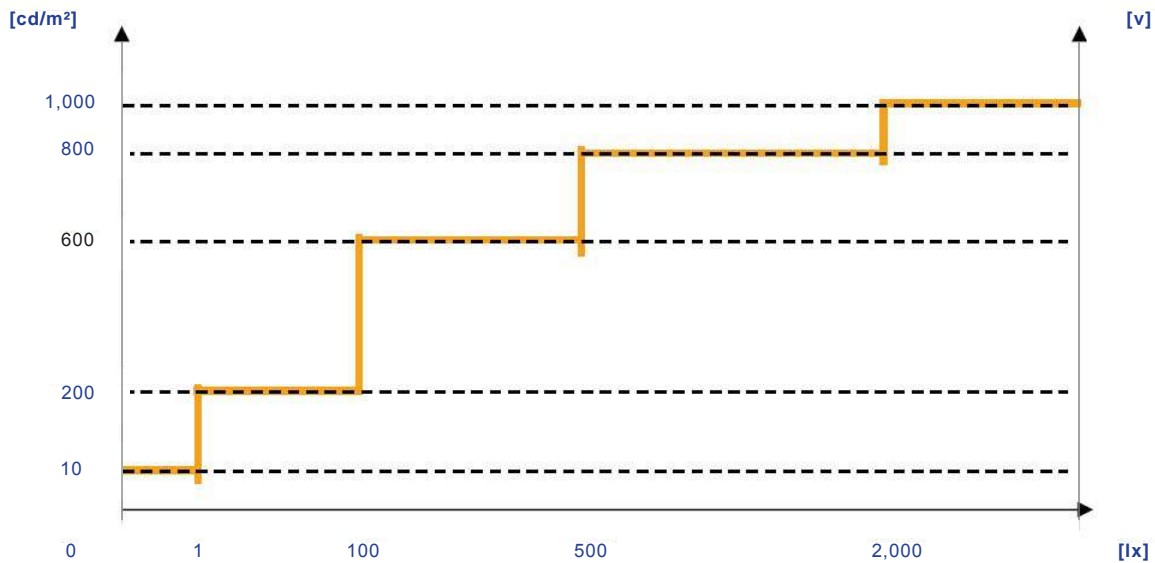
② DA-01 Light sensor on **AP** model

DA-01 light sensor will be installed on the display front panel when auto dimming is ON in OSD menu. Then the brightness of display is changed according to its environmental brightness.

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

Steps : OSD Menu > Picture > Auto Dimming > ON

Light Sensor Operation Range



Options : Switch Dimming

DS-01 is a IP54 dimming knob installed on the display front panel. The display can support hyper dimming function to adjust brightness from nearly 0% to 100% via a easy to use VR knob.

Dimming Knob



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