Synergy Global Technology Inc

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User Manual   19" High Brightness LCD

ID-H19A-LED
Front NEMA4 / IP65

ID-H19P-LED

Universal Mounting Open Frame

FC   CE   RoHS   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 40º Celsius (104º 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

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 >
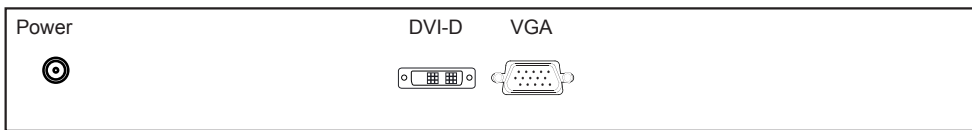## < 1.1 > Package Content - ID-H19A-LED

ID-H19A-LED

19" High Brightness LCD display X 1

6ft VGA cable X 1

Power adapter X 1

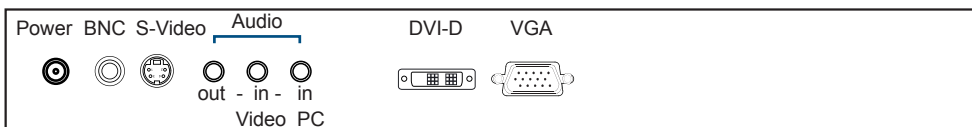**Power cord X 1**

Mounting hardware X 1 pack

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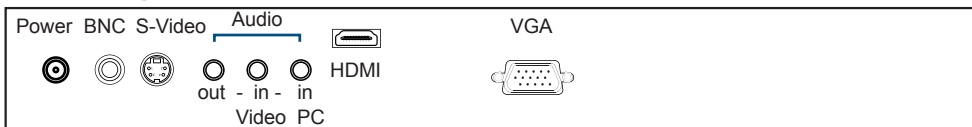
- M4* 6mm screw x 8 pcs
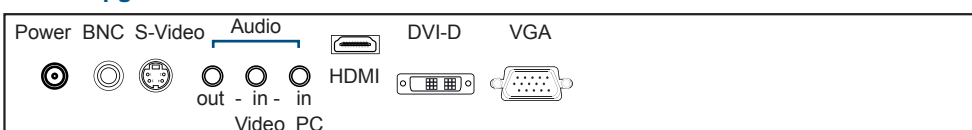
- M4* 50mm screw x 8 pcs

Basic I/O

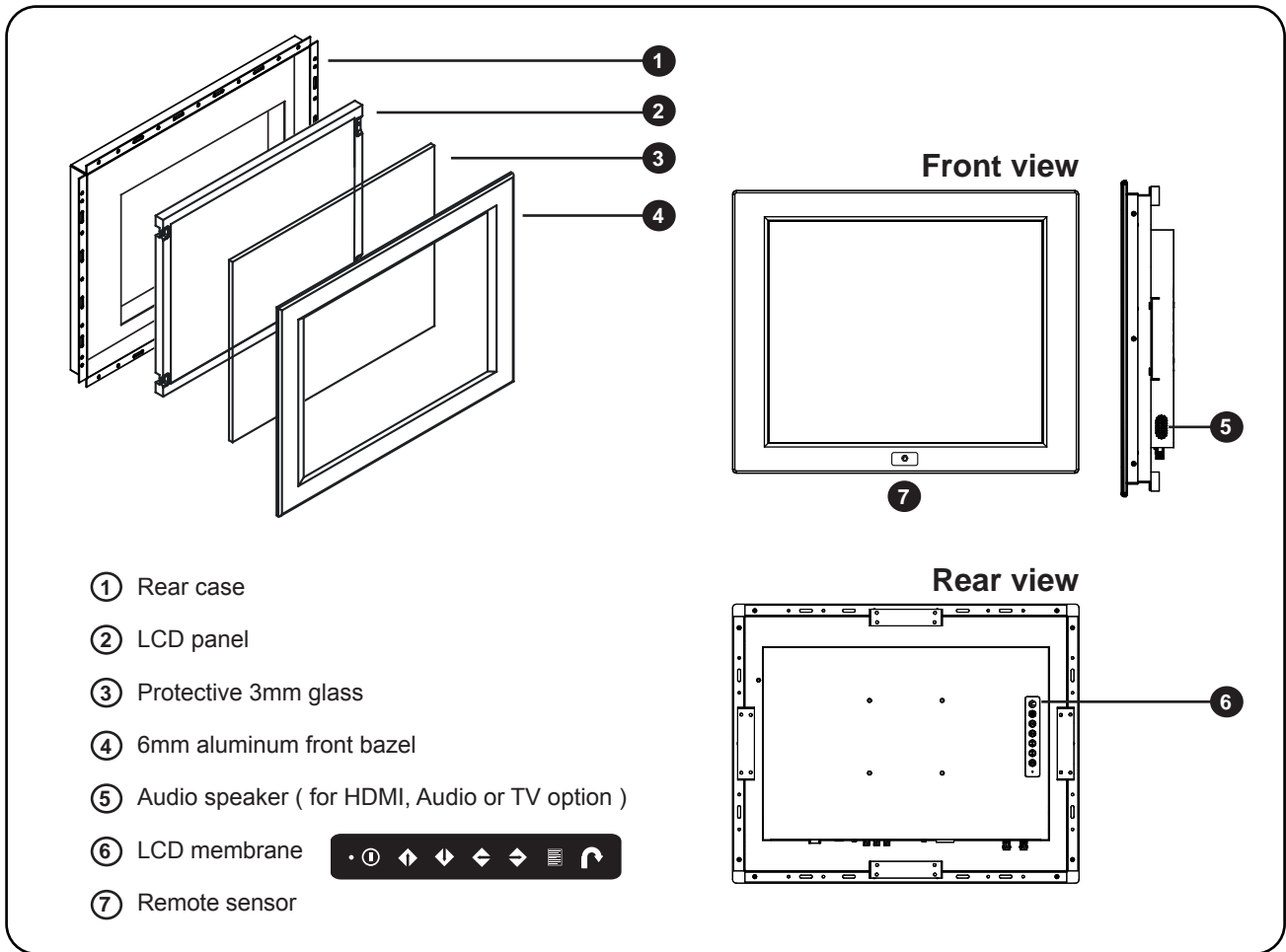Power   DVI-D   VGA

Ver 2.2D upgrade I/O

Power BNC S-Video   Audio   DVI-D   VGA

out - in - in
Video PC

Ver 2.2H upgrade I/O

Power BNC S-Video   Audio   VGA

HDMI

out - in - in
Video PC

Ver 3.0 upgrade I/O with advanced features

Power BNC S-Video   Audio   DVI-D   VGA

HDMI

out - in - in
Video PC

- An abundance of input connections that include HDMI, DVI-D, VGA, S-Video + BNC and audio

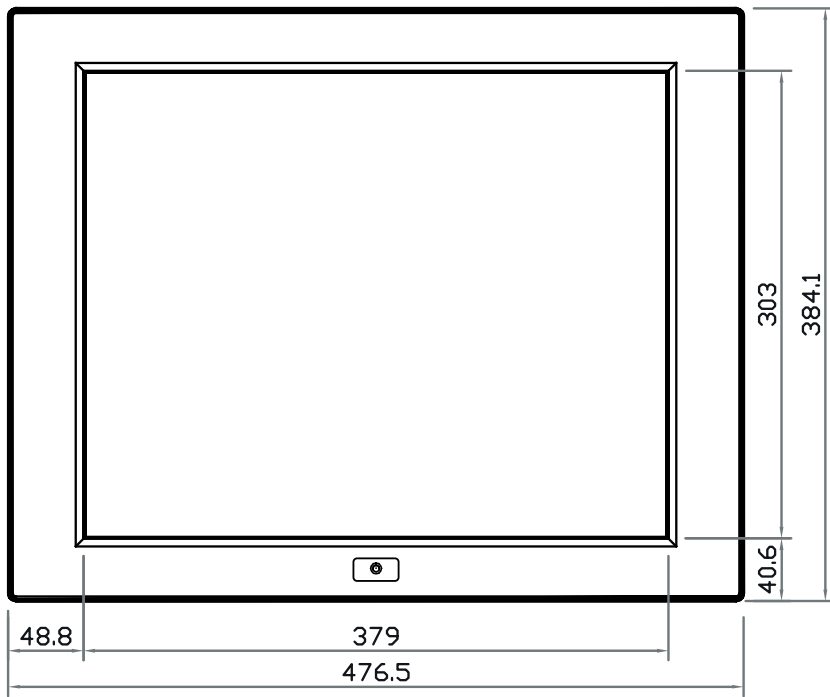**- On-chip Faroudja® DCDi Cinema processing**

- Casing dimensions will be changed

< 1.2 > Structure Diagram - ID-H19A-LED

Front view

Rear view

1. Rear case
2. LCD panel
3. Protective 3mm glass
4. 6mm aluminum front bazel
5. Audio speaker (for HDMI, Audio or TV option)
6. LCD membrane
7. Remote sensor

Model	Product Dimension (W x D x H)	Net Weight
ID-H19A-LED	476.5 x 63.6 x 384.1 mm 18.8 x 2.5 x 15.1 inch	7.7 kg 16.9 lbs

< 1.2 > Dimension - ID-H19A-LED

Front View

303
384.1
40.6
48.8
379
476.5

Side View

264.5
350.1
27.6
57.6
63.6

Rear View

452.6
72.8
M4*4pcs
100
146.3
100
360.2
80
350.1
135.1
181.3
80
442.5

UNIT : mm
1mm = 0.03937 inch

Bottom View

57.6
63.6
27.6
25
392.5
442.5
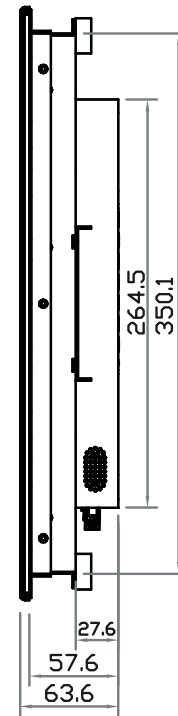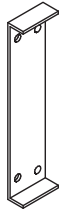
< 1.3 > Panel Mount Installation - ID-H19A-LED

1 Mounting bracket

x 4 pcs

2 M4*6mm screw
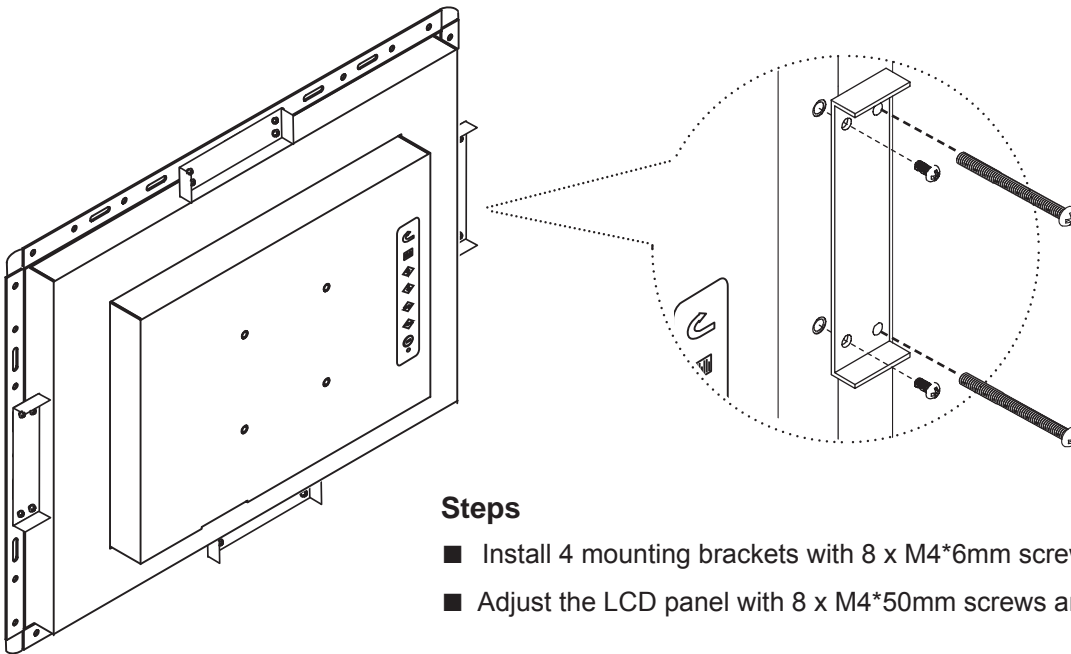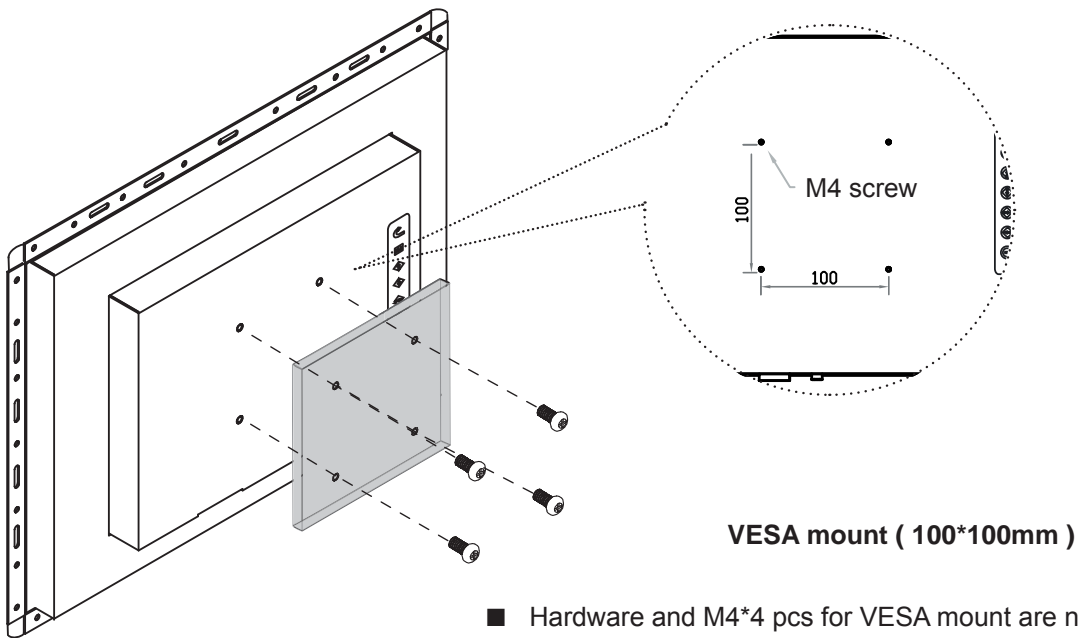
x 8 pcs

3 M4*50mm screw

x 8 pcs
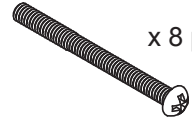
Hardware set part no. UV-BK#2

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.

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< 1.3 > VESA mount Installation - ID-H19A-LED

M4 screw

100

100

VESA mount (100*100mm)

■ Hardware and M4*4 pcs for VESA mount are not provided

< Part 2 >
< 2.1 > Package Content - ID-H19P-LED

ID-H19P-LED

19" High Brightness LCD display X 1

6ft VGA cable X 1

Power adapter X 1

Power cord X 1

Basic I/O
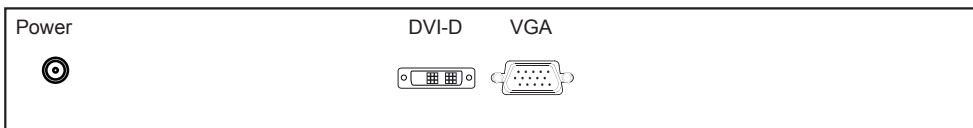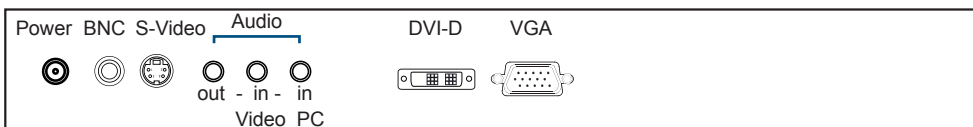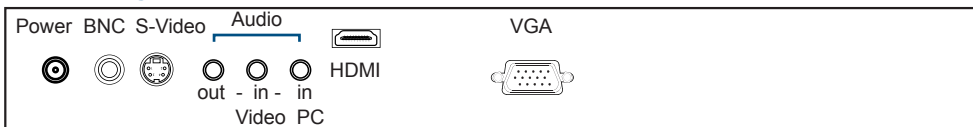
Power   DVI-D   VGA

Ver 2.2D upgrade I/O

Power BNC S-Video   Audio   DVI-D   VGA

out - in - in
Video PC

Ver 2.2H upgrade I/O

Power BNC S-Video   Audio   VGA

HDMI

out - in - in
Video PC

Ver 3.0 upgrade I/O with advanced features

Power BNC S-Video   Audio   DVI-D   VGA

HDMI

out - in - in
Video PC
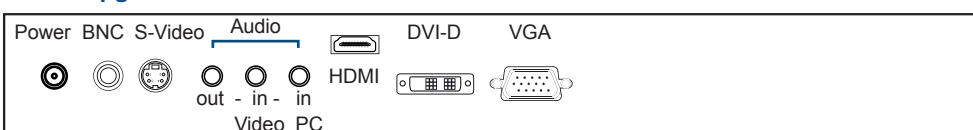
- **An abundance of input connections that include HDMI, DVI-D, VGA, S-Video + BNC and audio**
- **On-chip Faroudja® DCDi Cinema processing**
- **Casing dimensions will be changed**

< 2.2 > Structure Diagram - ID-H19P-LED

① Rear case

② LCD panel

③ Audio speaker (for HDMI, Audio or TV option)

④ Universal open frame mounting

⑤ LCD membrane

⑥ Extended remote sensor membrane cable
   (66cm from AD board to sensor end)

Front view
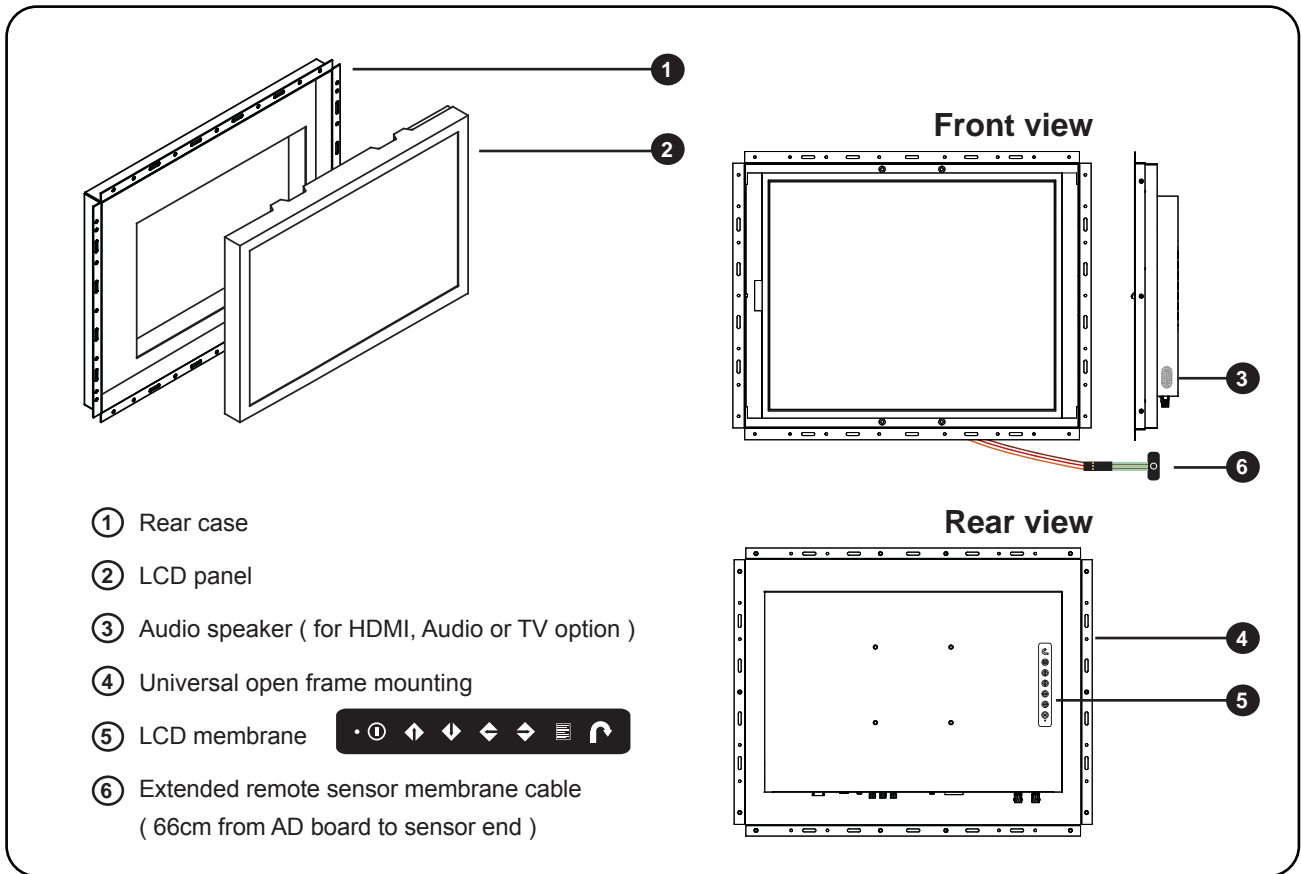
Rear view

Model	Product Dimension (W x D x H)	Net Weight
ID-H19P-LED	473.5 x 57.6 x 381.1 mm 18.6 x 2.3 x 15 inch	5.7 kg 12.5 lbs

< 2.2 > Dimension - ID-H19P-LED

Front View

Side View
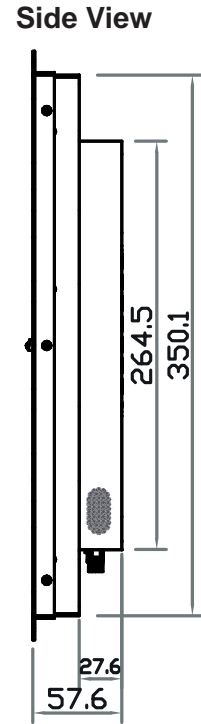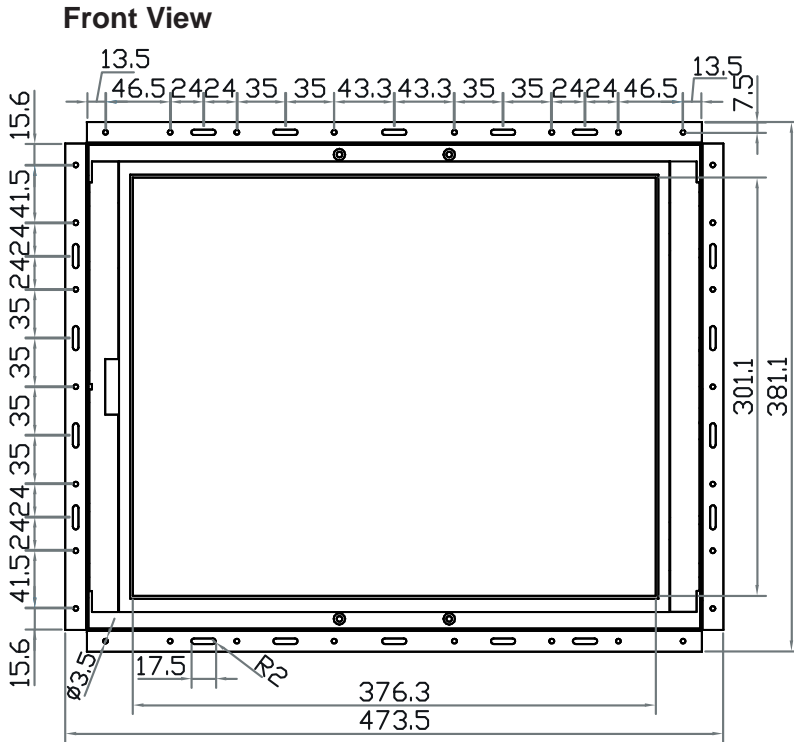
Rear View
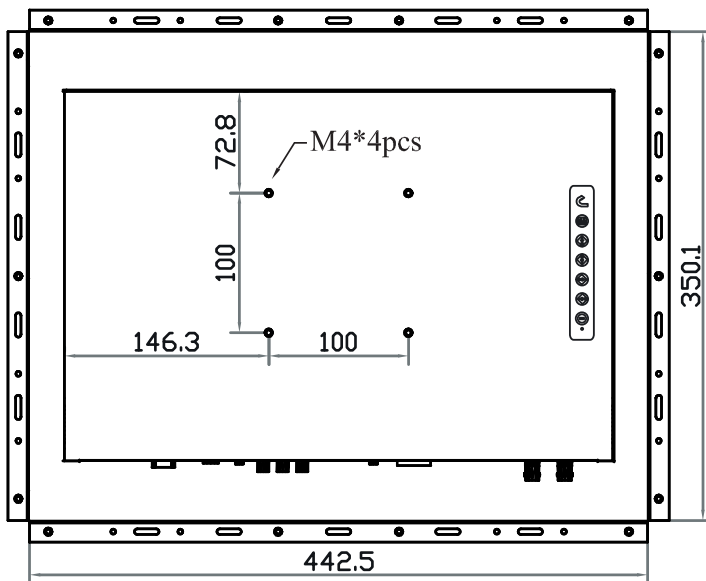
M4*4pcs

UNIT : mm
1mm = 0.03937 inch

Bottom View
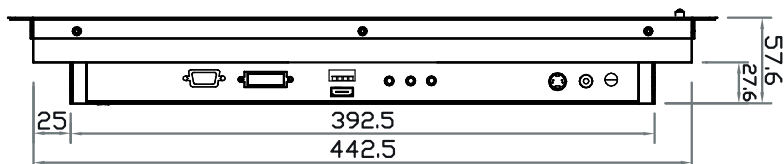
< 2.3 > Installation - ID-H19P-LED

(I) Universal mount

(II) VESA mount (100*100mm)

M4 screw

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

< Part 3 >

< 3.1 > Product Specifications

Mechanical Design		ID-H19A-LED	ID-H19P-LED
	Front Panel	Black, RAL 9005	-
	Rear Casing	Black, RAL 9005	Black, RAL 9005
	VESA Mounting	100 x 100mm	100 x 100mm
	Other Mounting	Panel mount	Universal mount
	Protection	3mm protective glass	-

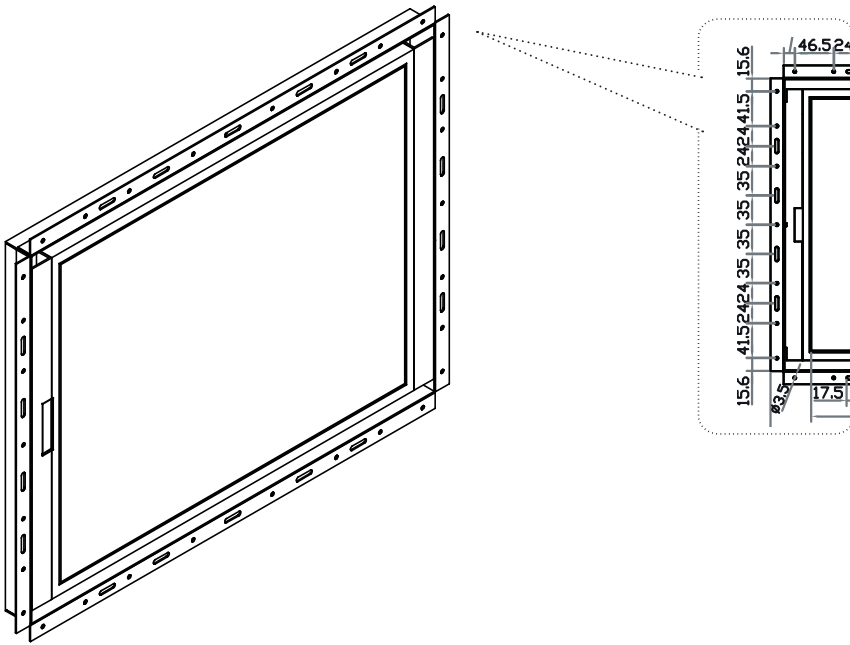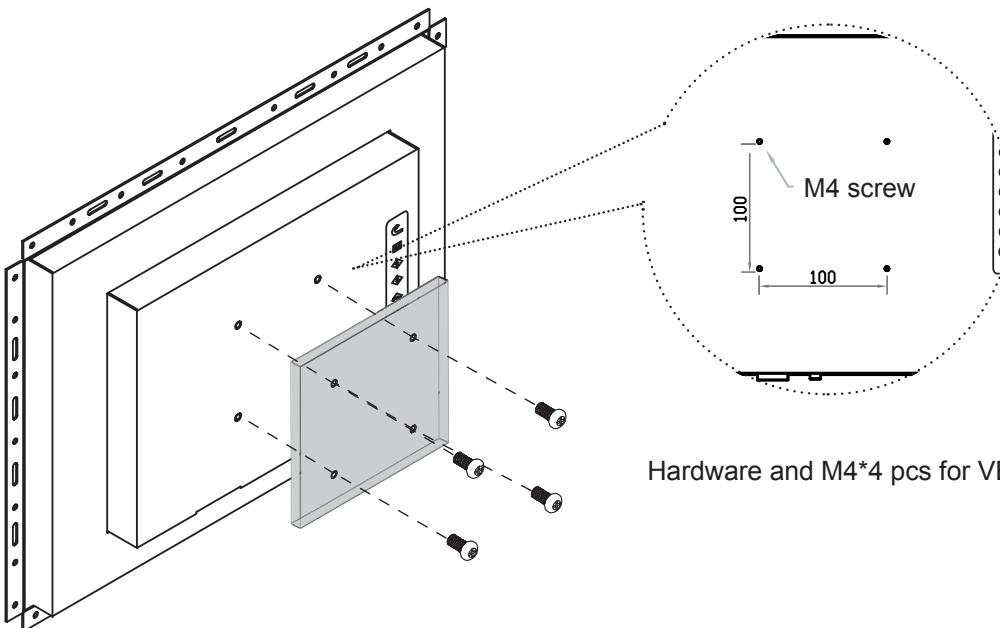| LCD Panel		
	Panel Size (diagonal)	19-inch TFT color LCD
	Display pixel (dots x lines)	1280 x 1024
	Brightness (typ.)	1000
	Contrast Ratio (typ.)	1000:1
	Color	16.7 M
	Viewing Angle (L/R/U/D)	80/80/80/80
	Response Time (ms)	5
	Dot pitch (mm)	0.294
	Display Area (mm)	376.32H x 301.05V
	Surface treatment	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

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Physical Specification		ID-H19A-LED	ID-H19P-LED
	Product (W x D x H)	476.5 x 63.6 x 384.1 mm 18.8 x 2.5 x 15.1 inch	473.5 x 57.6 x 381.1 mm 18.6 x 2.3 x 15 inch
	Net Weight	7.7 kgs / 16.9 lbs	5.7 kgs / 12.5 lbs

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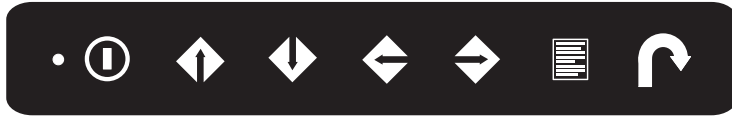
Membrane Switch	Function
⊖	Power on / off LCD
▤	Display the OSD menu
◈ ◈ ◈ ◈	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button ◈ for 5 seconds)
↰	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)

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

Icon	Description
👤	**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	**Misc:** for the language, OSD position, graphic mode, ratio, reset and timer
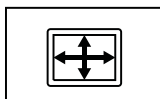
< Part 4 > Options

< 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.
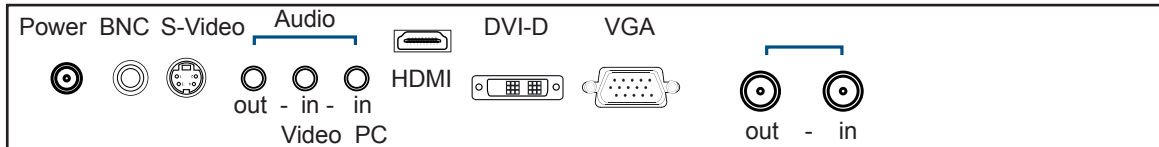
www.rackmountmart.com

< 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). Casing dimensions will be changed.

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

www.rackmountmart.com

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

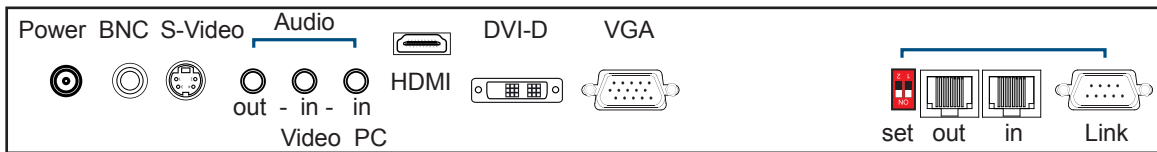## MC
(Multi-display Control)
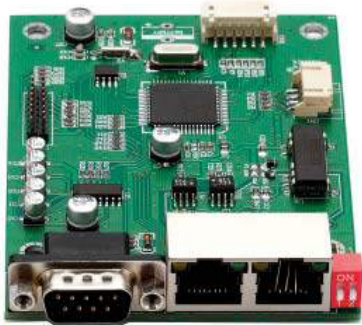
More control is always good. Especially when it is necessary and easy. Synergy Global Technology provides MC solution to control the OSD of various Industrial LCD displays up to 64 units.
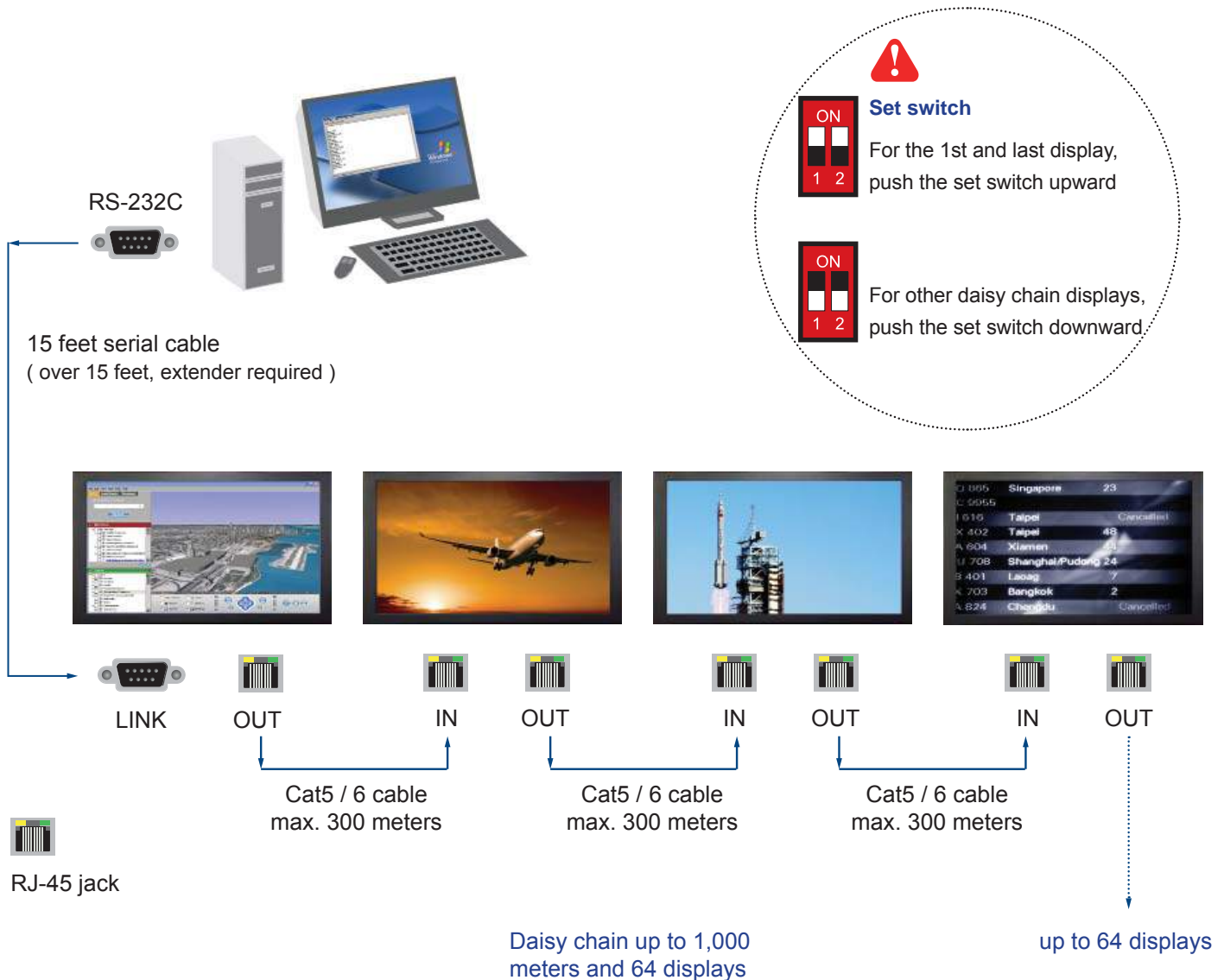
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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

MC

| Power | BNC | S-Video | Audio | | | HDMI | DVI-D | VGA | | set | out | in | Link |

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

Set switch

For the 1st and last display, push the set switch upward

For other daisy chain displays, push the set switch downward

RS-232C

15 feet serial cable
(over 15 feet, extender required)

LINK   OUT   IN   OUT   IN   OUT   IN   OUT

Cat5 / 6 cable
max. 300 meters

Cat5 / 6 cable
max. 300 meters

Cat5 / 6 cable
max. 300 meters

RJ-45 jack

Daisy chain up to 1,000 meters and 64 displays

up to 64 displays

P.15

< 4.4 > Options :
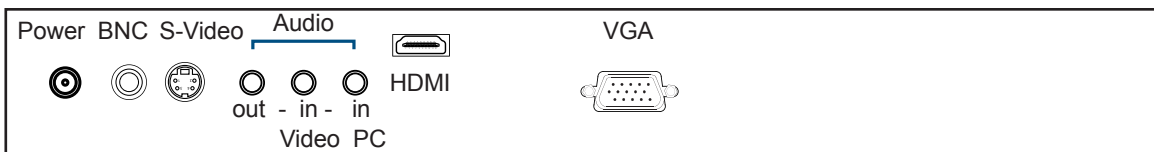
Ver 2.2D Upgrade Options

- **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)
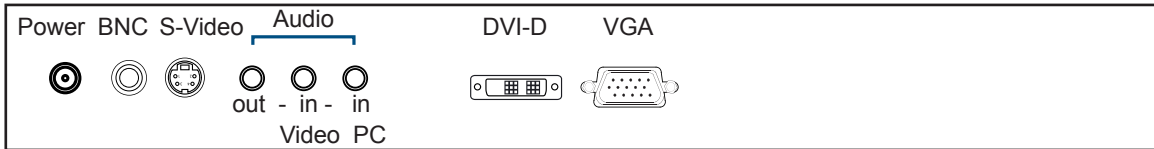
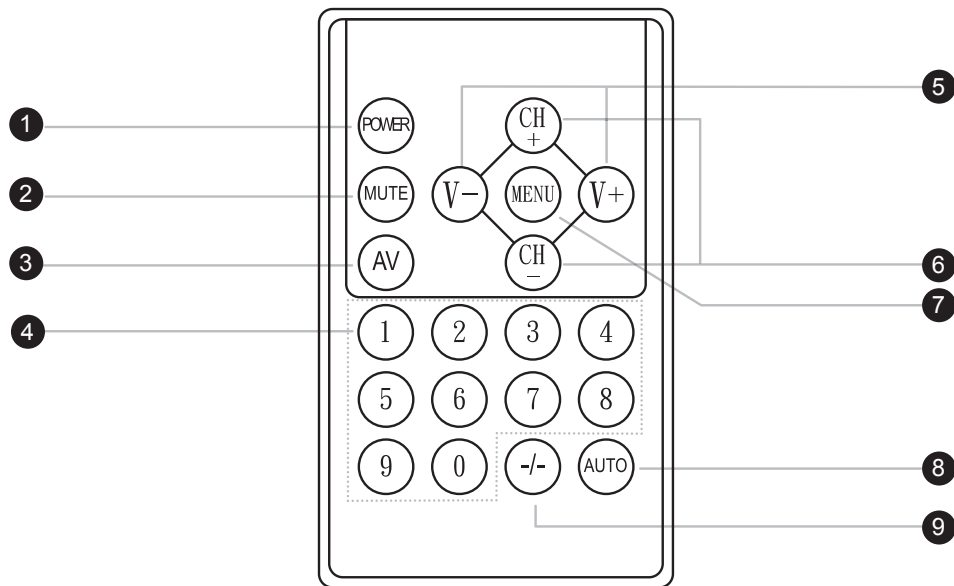## Ver 2.2H Upgrade Options

- **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)

***
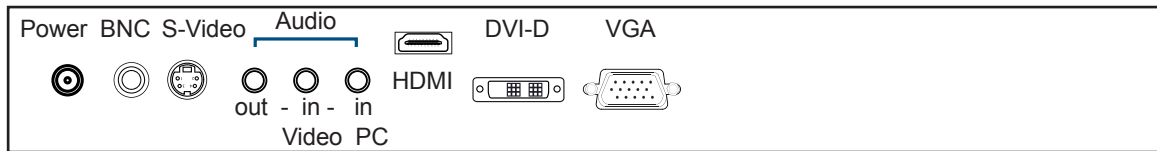**Ver 2.2 upgrade option comes with remote controller x 1.**

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

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< 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)

| Power | BNC | S-Video | Audio | | HDMI | DVI-D | VGA |

Power BNC S-Video Audio   DVI-D   VGA

HDMI

out - in - in
Video PC

***
Casing dimensions will be changed.

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< 4.6 > Options : Touchscreen & driver

19" USB Touchscreen Specification

Model	TMC Multi-touch	TRB Resistive	TCB Capacitive
Technology	Projected Capacitive	5-Wire Resistive	Capacitive
Touch Point	4	Single	Single
Input Type	Finger or Capacitive Stylus	Finger or Stylus	Finger
Resolution	2048 x 2048	2048 x 2048	2048 x 2048
Touch Point Accuracy	± 10 mm offset	-	-
Response Speed	Max. 20 ms	15 ms	20 ms
Activation Force	≤ 10 g	≤ 50 g	≤ 50 g
Surface Hardness	7H	3H	9H
Light Transmission	≥ 88%	80% ± 3%	92% ± 2%
Haze	≤ 2%	8% ± 3%	7%
Durability	> 100 million touches	10 million touches	300 million touches
Top Layer	1.8 mm Tempered Glass	ITO Film	Glass
Bottom Layer	Film	ITO Glass	Glass
Thickness	2.2 mm	3.2 ± 0.2 mm	2.8 mm ± 10%
Connector	USB Type A	USB Type A	USB Type A
Compatibility	Windows 7	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 Touchscreen

Power   DVI-D   VGA
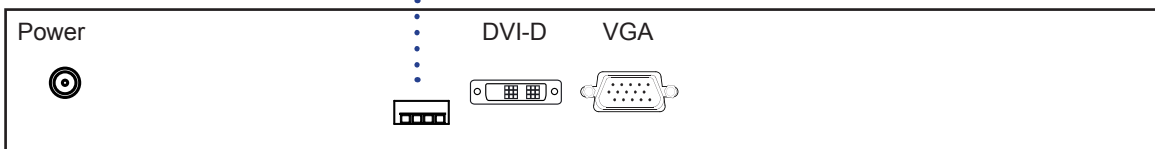
< 4.6 > Options : Touchscreen & driver

TMC 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 / 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 :
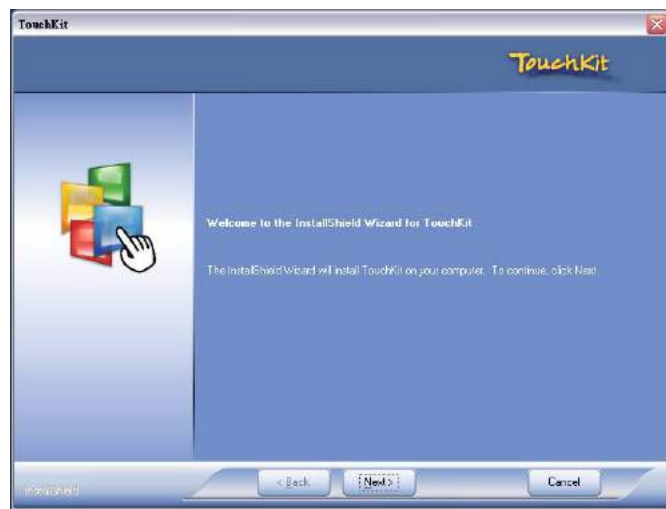http://www.rackmountmart.com/downloads.html

Step 2. Double click the Setup.exe

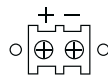**Step 3.** Follow the installation instruction to finish the setup

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.
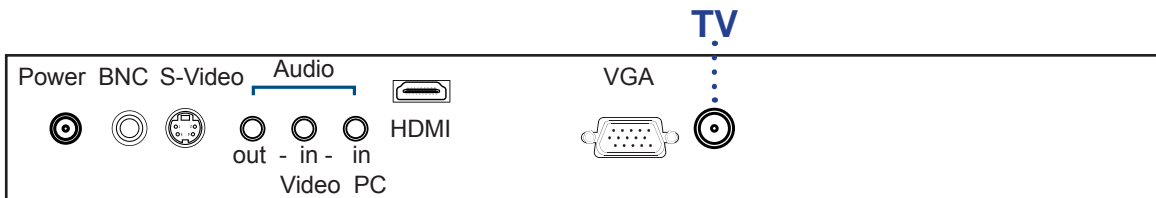
< 4.9 > Options : Quad Display

RS-232   **VCR in**   **Video IN 1 ~ 4**

Alarm I/O   **VCR out**   **Video Loop 1 ~ 4**   **S-Video**   **VGA**   **Power**
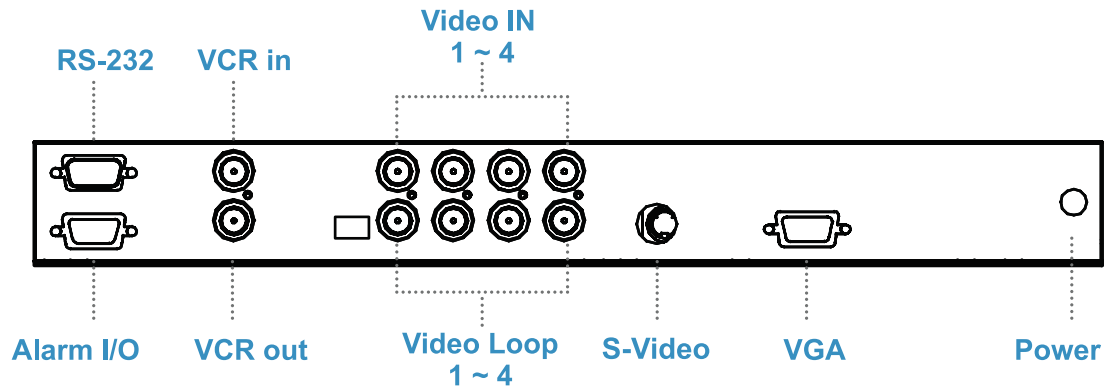
QD Specification

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.

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< 4.10 > Options : TV (Analog)

TV

| Power | BNC | S-Video | Audio | | | HDMI | VGA | TV |

Power BNC S-Video Audio

out - in - in
Video PC

HDMI
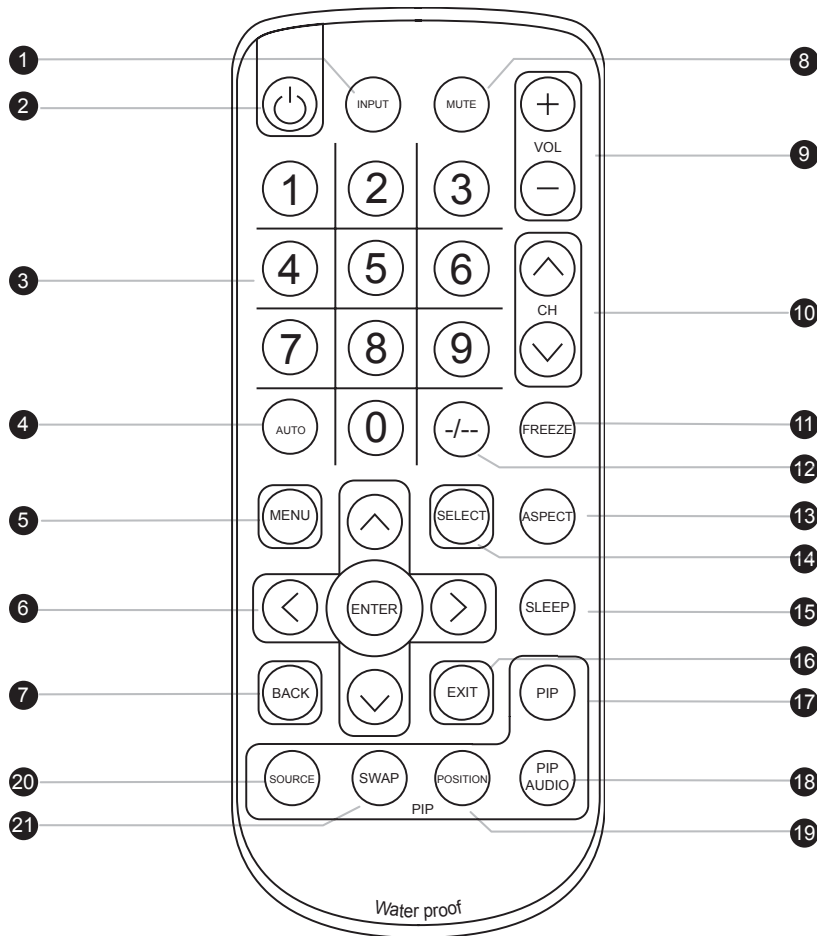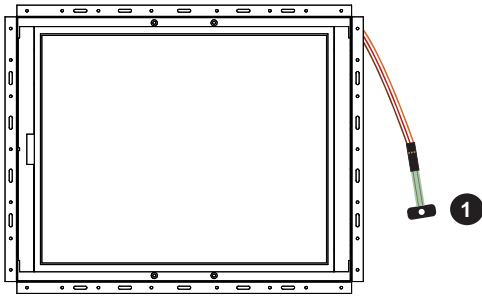
VGA

***   **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.

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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

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< 4.10 > Options : Auto Dimming

① **DA-01** Light sensor on **OP** model
(66cm from AD board to sensor end)
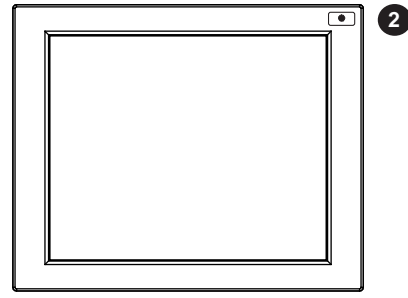
② **DA-01** Light sensor on **AP** model

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
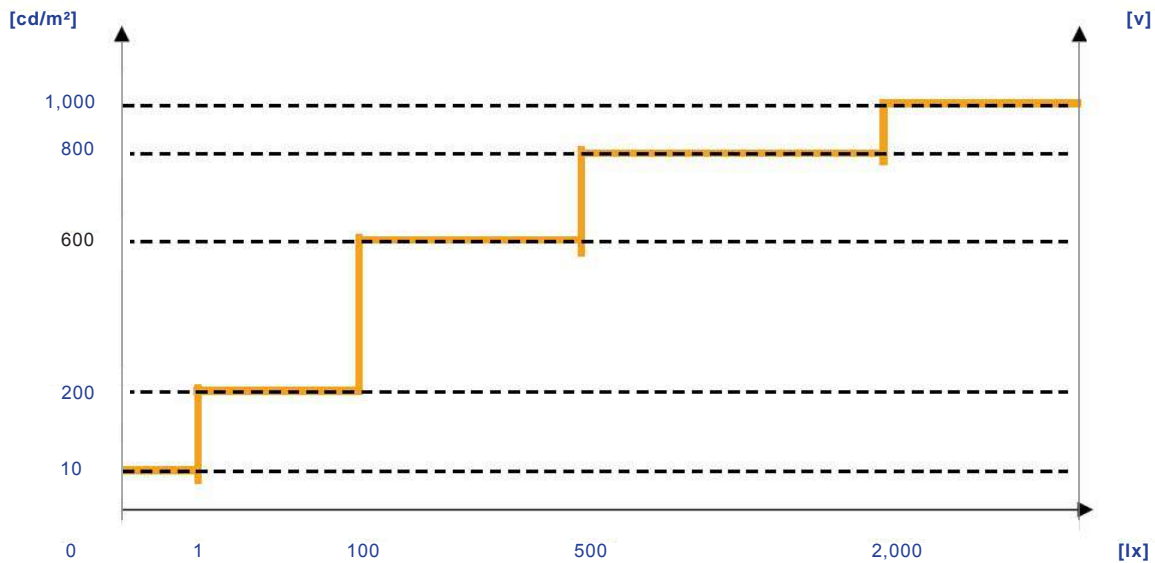
Options : Switch Dimming

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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