

Toll Free: 1-888-865-6888

Tel: 510-226-8368 Fax: 510-226-8968

Email: sales@RackmountMart.com

User Manual 17" High Brightness LCD









ID-H17P-LED Universal Mounting Open Frame







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 >	ID-H17A-LED	
1.1 1.2	Package Content Structure Diagram & Dimension	P.1 P.2 - 3
1.3	Mounting Hardware & Installation	P.4 - 5
< Part. 2 >	ID-H17P-LED	
2.1	Package Content	P.6
2.2 2.3	Structure Diagram & Dimension Mounting Hardware & Installation	P.7 - 8 P.9
	ŭ	
< Part. 3 >	Specifications / OSD	
3.1	Product Specifications	P.10 - 11
3.2	On-screen Display Operation (OSD)	P.12
< Part. 4 >	Options	
4.1	Option Table	P.13
4.2	MC Multi-display control solution	P.14
4.3	Ver 2.2D Upgrade : DVI-D, S-Video + BNC & Audio Ver 2.2H Upgrade : HDMI, S-Video + BNC & Audio	P.15 - 16
4.4	Projected Capacitive (4-point touch) Resistive / Capacitive (single point touch)	P.17 - 18
4.5	48V or 24VDC power	P.18
4.6	MIL-type or lockable connector	P.19
4.7	Quad display for CCTV	P.20
4.8	TV (Analog)	P.21 - 22
4.9	Auto / switch dimming	P.23

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.
- 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 - ID-H17A-LED

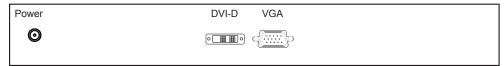


17" High Brightness LCD display X 1
6ft VGA cable X 1
Power adapter X 1
Power cord X 1

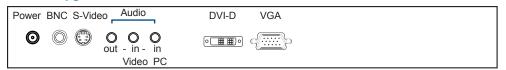
Mounting hardware X 1 pack

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

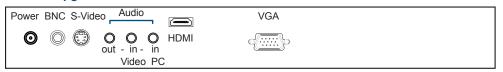
Basic I/O



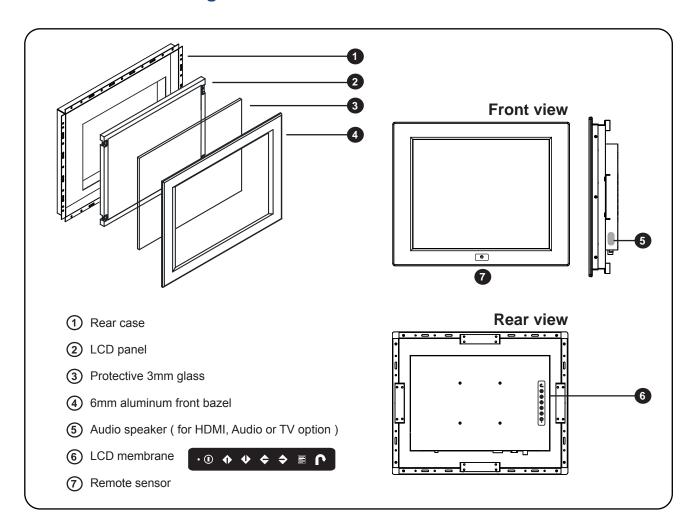
Ver 2.2D upgrade I/O



Ver 2.2H upgrade I/O



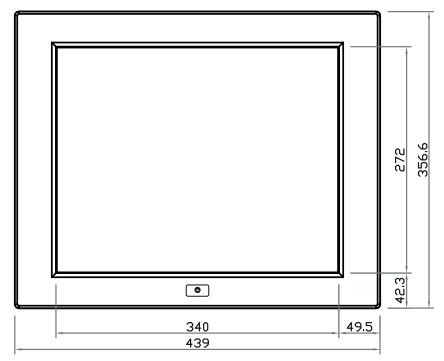
< 1.2 > Structure Diagram - ID-H17A-LED

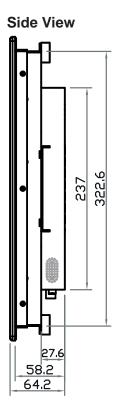


Model Product Dimension (W x D x H)		Net Weight
ID-H17A-LED	439 x 64.2 x 356.6 mm 17.3 x 2.5 x 14 inch	6.6 kg 14.5 lbs

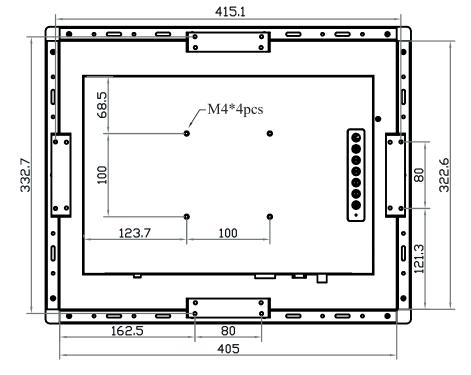
< 1.2 > Dimension - ID-H17A-LED

Front View

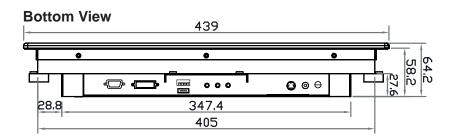




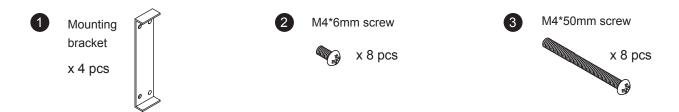
Rear View



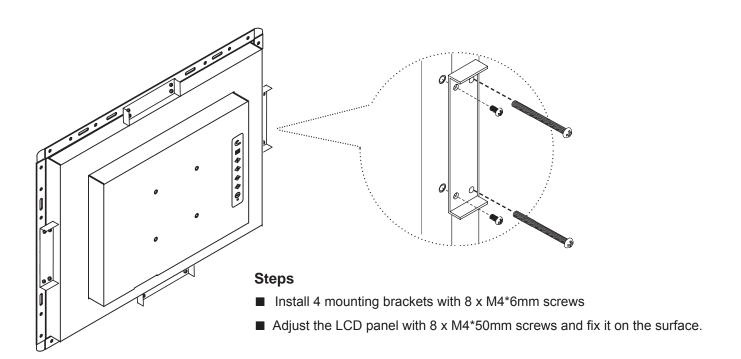
UNIT : mm 1mm = 0.03937 inch



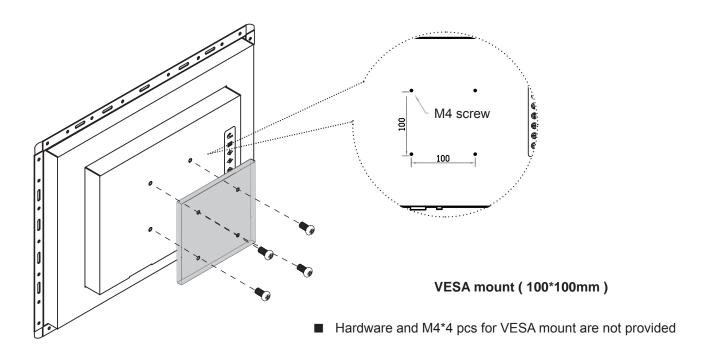
< 1.3 > Mounting Hardware - ID-H17A-LED



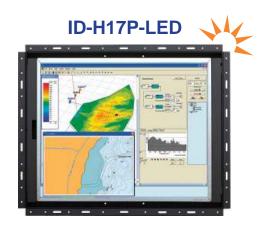
Hardware set part no. UV-BK#2



< 1.3 > VESA mount Installation - ID-H17A-LED

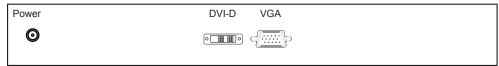


< 2.1 > Package Content - ID-H17P-LED

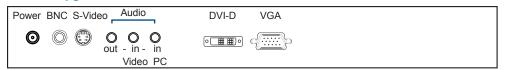


17" High Brightness LCD display X 1
6ft VGA cable X 1
Power adapter X 1
Power cord X 1

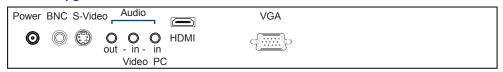
Basic I/O



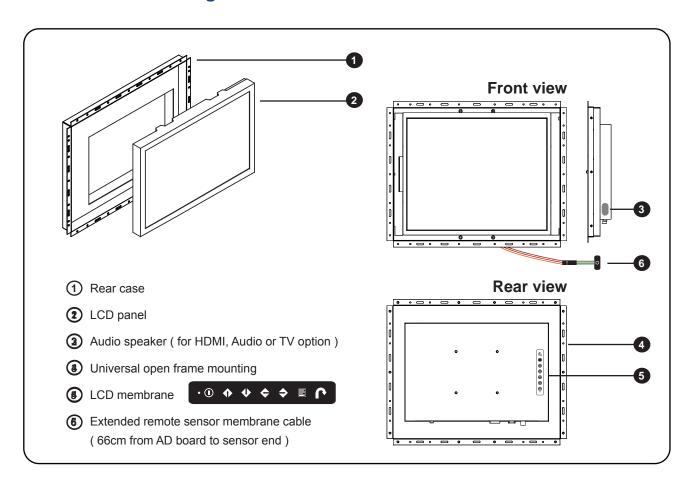
Ver 2.2D upgrade I/O



Ver 2.2H upgrade I/O

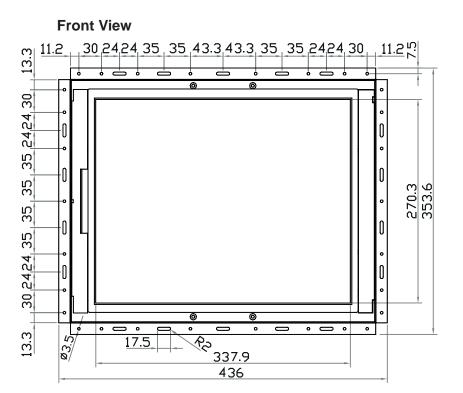


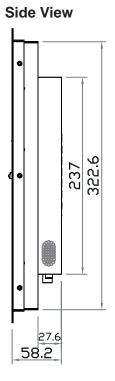
< 2.2 > Structure Diagram - ID-H17P-LED



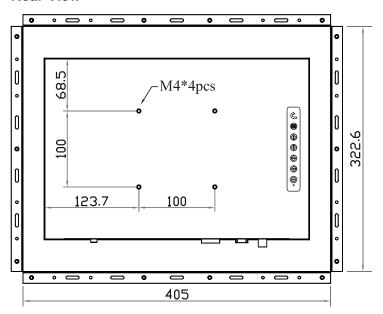
Model	Product Dimension (W x D x H)	Net Weight
ID-H17P-LED	436 x 58.2 x 353.6 mm 17.2 x 2.3 x 13.9 inch	4.9 kg 10.8 lbs

< 2.2 > Dimension - ID-H17P-LED

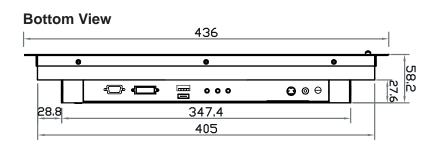




Rear View

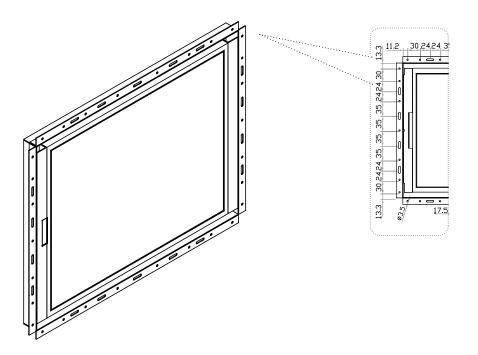


UNIT : mm 1mm = 0.03937 inch

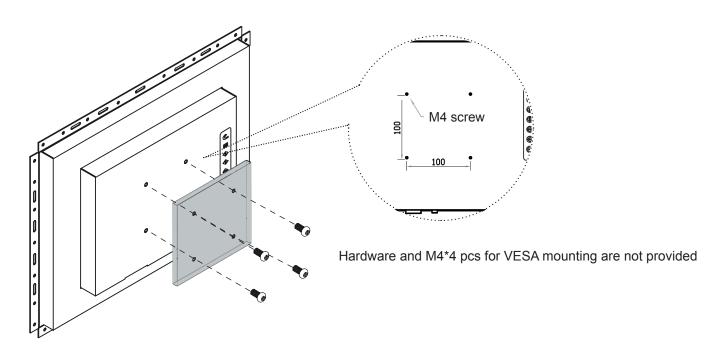


< 2.3 > Installation - ID-H17P-LED

(I) Universal mount



(II) VESA mount (100*100mm)



< Part 3 >

< 3.1 > Product Specifications

Mechanical		ID-H17A-LED	ID-H17P-LED
Design	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 gla	ISS -
		'	'
_CD	Panel Size (diagonal)	17-i	nch TFT color LCD
Panel	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)		85/85/80/80
	Response Time (ms)		5
	Dot pitch (mm)		0.264
	Display Area (mm)	33	37.92H x 270.33V
	Surface treatment		Anti-glare
	Surface hardness		3H
		LED	
	Backlight Type		
	MTBF (hrs)		50,000
		VGA	
Video Connectivity	MTBF (hrs)	VGA	50,000
Connectivity	MTBF (hrs)	VGA	50,000
Connectivity	MTBF (hrs) Analog		50,000 Analog 0.7Vp-p Auto-sensing 100 to 240VAC,
Connectivity	MTBF (hrs) Analog Power Supply	Range	50,000 Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz
	MTBF (hrs) Analog Power Supply	Range Screen display ON	Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz 35W or less
Connectivity	MTBF (hrs) Analog Power Supply	Range Screen display ON Power saving mode	Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz 35W or less 4W or less
Connectivity	MTBF (hrs) Analog Power Supply	Range Screen display ON Power saving mode	Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz 35W or less 4W or less
Connectivity	Analog Power Supply Power Consumption	Range Screen display ON Power saving mode Power button OFF	Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz 35W or less 4W or less 1W or less
Connectivity	Analog Power Supply Power Consumption Safety	Range Screen display ON Power saving mode Power button OFF FCC & CE certified	Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz 35W or less 4W or less 1W or less
Power Regulatory Environmental	Analog Power Supply Power Consumption Safety	Range Screen display ON Power saving mode Power button OFF FCC & CE certified	Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz 35W or less 4W or less 1W or less
Power Regulatory	Analog Power Supply Power Consumption Safety Environmental	Range Screen display ON Power saving mode Power button OFF FCC & CE certified RoHS2 & REACH con	Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz 35W or less 4W or less 1W or less
Connectivity Cower Regulatory Environmental	Analog Power Supply Power Consumption Safety Environmental	Range Screen display ON Power saving mode Power button OFF FCC & CE certified RoHS2 & REACH con Temperature	Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz 35W or less 4W or less 1W or less npliant 0 to 50°C degree
Connectivity Cower Regulatory	Analog Power Supply Power Consumption Safety Environmental Operating	Range Screen display ON Power saving mode Power button OFF FCC & CE certified RoHS2 & REACH con Temperature Humidity	Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz 35W or less 4W or less 1W or less 1 or to 50°C degree 20~90%, non-condensing
Power Regulatory Environmental	Analog Power Supply Power Consumption Safety Environmental Operating	Range Screen display ON Power saving mode Power button OFF FCC & CE certified RoHS2 & REACH con Temperature Humidity Temperature	Analog 0.7Vp-p Auto-sensing 100 to 240VAC, 50/60Hz 35W or less 4W or less 1W or less npliant 0 to 50°C degree 20~90%, non-condensing -5 to 60°C degree

Physical		ID-H17A-LED	ID-H17P-LED
Specification	Product (WxDxH)	439 x 64.2 x 356.6 mm	436 x 58.2 x 353.6 mm
		17.3 x 2.5 x 14 inch	17.2 x 2.3 x 13.9 inch
	Net Weight	6.6 kgs / 14.5 lbs	4.9 kgs / 10.8 lbs

Applicable	VGA Input	PC Signal	1280 x 1024 x 60 / 75Hz
Format			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

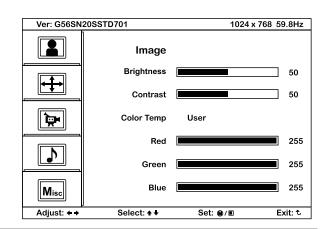
Membrane Switch
Function

Power on / off LCD

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

Display the OSD menu

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:

Misc

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	Р
HDMI* or DVI-D	✓	✓
S-Video * + Composite (BNC)	✓	✓
Audio	✓	✓
Touchscreen	✓	✓
MC multi-display control ***	✓	✓
DC Power	✓	✓
MIL-type / lockable connector	✓	✓
Quad display	✓	✓
TV (Analog) *	✓	✓
Auto / switch dimming	✓	✓



- * About HDMI and DVI-D
 - (1) For Ver 2.2 upgrade, either HDMI or DVI-D is provided.
 - * Remote Controller
 - (1) Ver 2.2 upgrade comes with remote controller.
 - (2) TV option comes with remote controller.

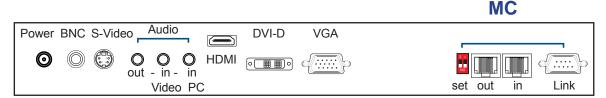
< 4.2 > Options : MC (Multi-display Control)



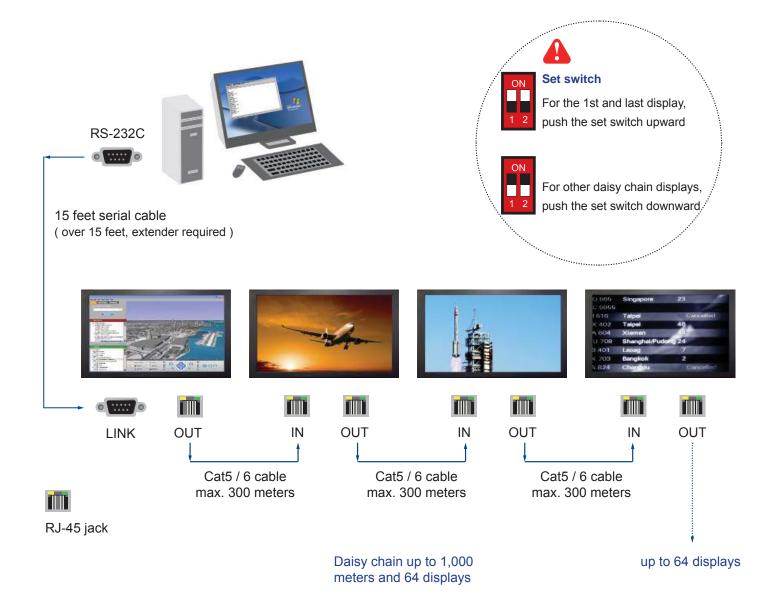
More control is always good. Especially when it is necessary and easy. Synergy Global Technology provides MC solution to control the OSD of various Industrial LCD displays up to 64 units.

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.



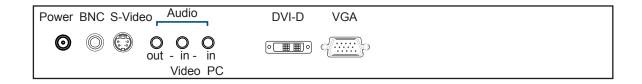
*** Please download the protocol of MC control at : http://www.rackmountmart.com/downloads.html



< 4.3 > Options:

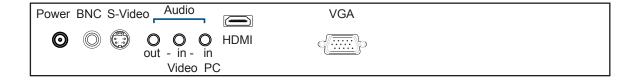
Ver 2.2D Upgrade Options

- 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)



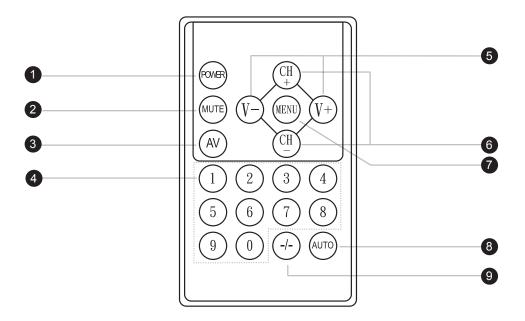
Ver 2.2H Upgrade Options

- **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

< 4.4 > Options : Touchscreen & driver

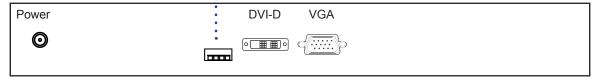


17" USB Touchscreen Specification

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	2.2 ± 0.2 mm	2.8 mm ± 10%	
Connector	USB Type A	USB Type A	USB Type A	
Compatibility	Windows 7	Windows 7 / X	P / 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



< 4.4 > 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



< 4.5 > 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%

< 4.6 > Options : MIL-type or Lockable Connector

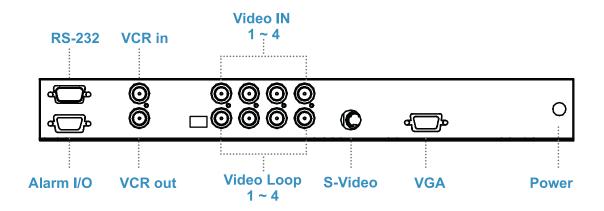
	Input	Part no.	MIL Standard
MIL - type Connector	DC Power *** (Male)	-MD (MS3470W8-33P)	MIL - DTL - 26482
	VGA *** (Male)	-MA (MS3470W14-15P)	MIL - DTL - 26482

^{***} 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.

< 4.7 > Options : Quad Display

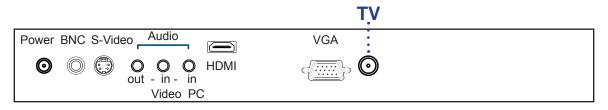


QD Specification

	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	
	2 x Zoom On Playback	Yes	
Display Format	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.

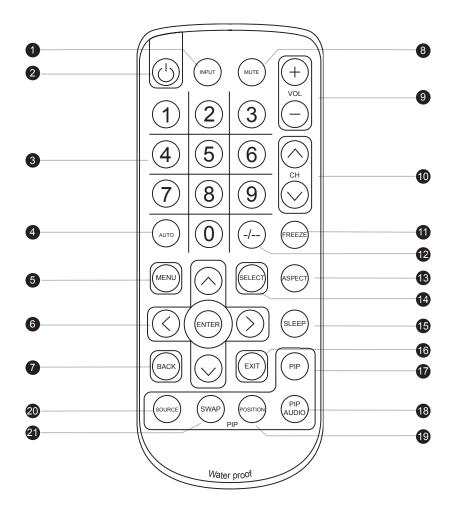
< 4.8 > Options : TV (Analog)



*** For TV option:

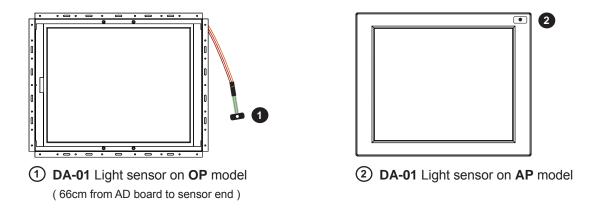
- (1) The AD board comes standard with HDMI, VGA, S-Video, BNC, audio inputs and remote controller.
- (2) Casing dimensions will be changed.

How to Use TV Remote Controller



1	INPUT	Select the source	
2	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	
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) (20)	POSITION	To set the screen position in PIP mode	
20	SOURCE	PIP Source	
20	SWAP	Swap screen in PIP mode	

< 4.9 > Options : Auto Dimming



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

[cd/m²]

1,000

800

200

10

1 100 500 2,000 [[x]]

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.



