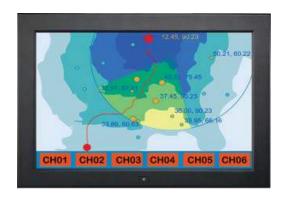


Toll Free: 1-888-865-6888

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

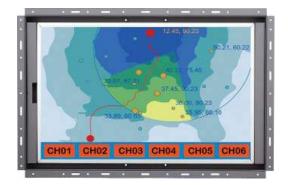
Email: sales@RackmountMart.com

# **User Manual** 19" Widescreen LCD



ID-19Aw-LED
Aluminum front bezel





**ID-19Pw-LED**Universal Mounting Open Frame

F© (E

#### **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**

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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.

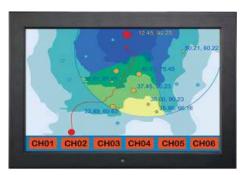
### Cleaning Tough Marks and Smudges

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.
- 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-19Aw-LED / ID-19AwN-LED

#### ID-19Aw-LED / ID-19AwN-LED

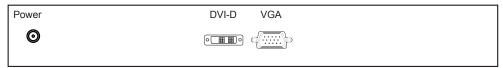


19" Widescreen LCD display X 1
6ft VGA cable X 1
Power adapter X 1
Power cord X 1

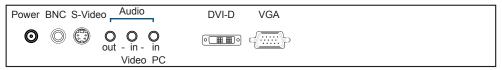
#### Mounting hardware X 1 pack

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

#### Basic I/O



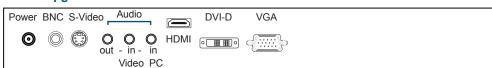
#### Ver 2.2D upgrade I/O



#### Ver 2.2H upgrade I/O

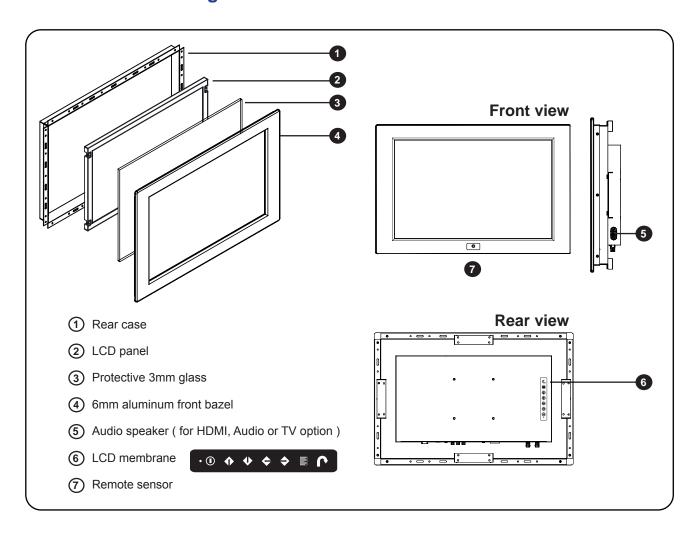


#### Ver 3.0 upgrade I/O with advanced features



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

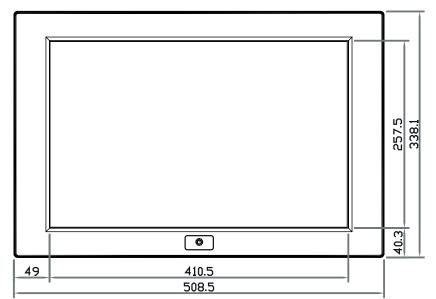
### < 1.2 > Structure Diagram - ID-19Aw-LED / ID-19AwN-LED



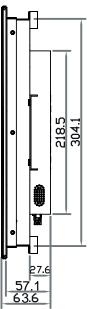
Model	Model Product Dimension (W x D x H)	
ID-19Aw-LED	508.5 x 63.6 x 338.1 mm	5 kg
ID-19AwN-LED	20 x 2.5 x 13.3 inch	11 lbs

### < 1.2 > Dimension - ID-19Aw-LED / ID-19AwN-LED

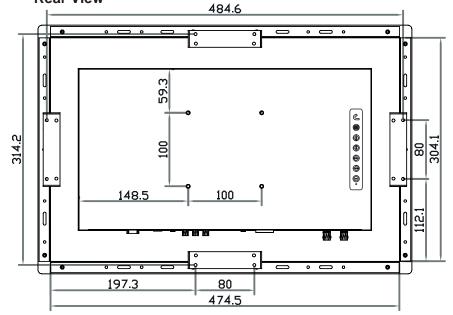
#### **Front View**



### Side View

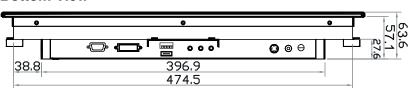


#### **Rear View**

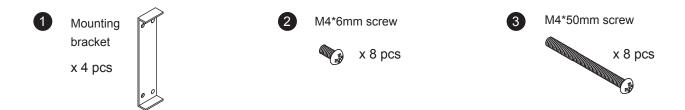


UNIT : mm 1mm = 0.03937 inch

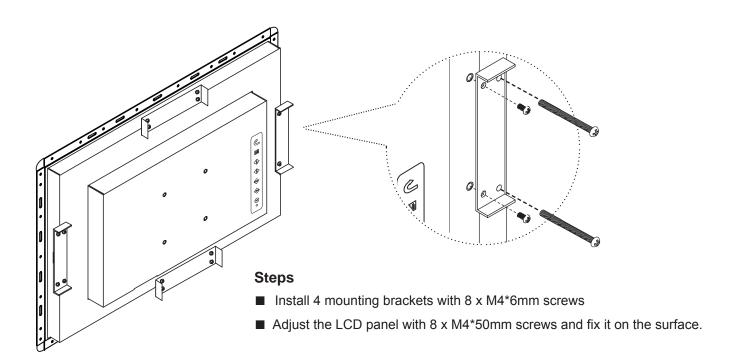
#### **Bottom View**



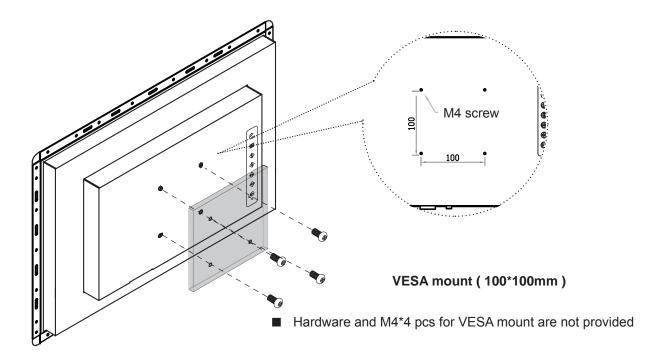
### < 1.3 > Panel Mount Installation - ID-19Aw-LED / ID-19AwN-LED



Hardware set part no. UV-BK#2

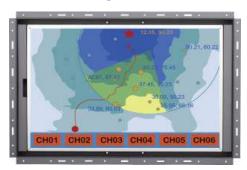


### < 1.3 > VESA mount Installation - ID-19Aw-LED / ID-19AwN-LED



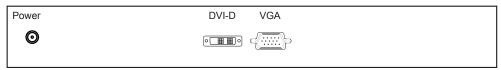
### < 2.1 > Package Content - ID-19Pw-LED

#### **ID-19Pw-LED**

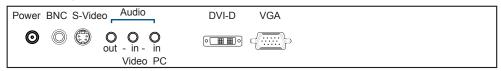


19" Widescreen LCD display X 1
6ft VGA cable X 1
Power adapter X 1
Power cord X 1

#### Basic I/O



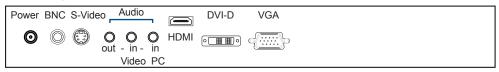
#### Ver2.2D upgrade I/O



#### Ver2.2H upgrade I/O

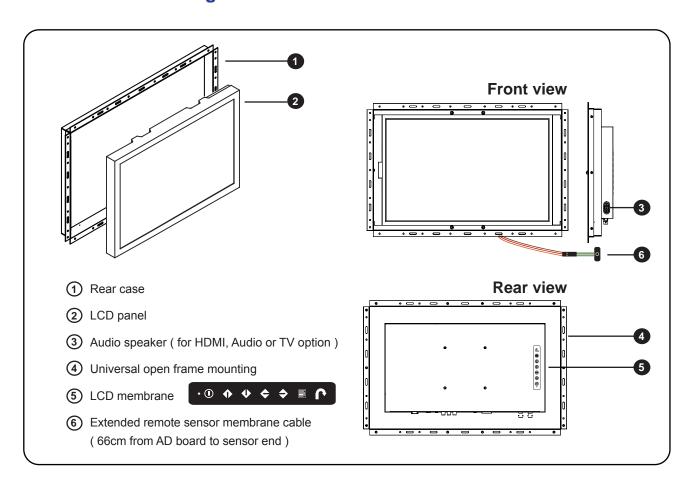


#### Ver3.0 upgrade I/O with advanced features



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

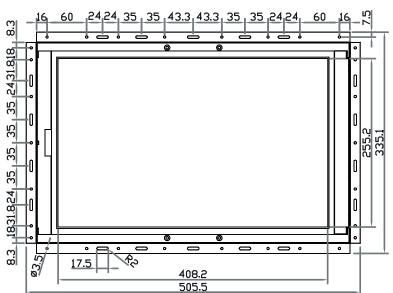
### < 2.2 > Structure Diagram - ID-19Pw-LED



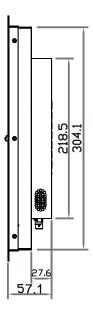
Model	Product Dimension (W x D x H)	Net Weight
ID-19Pw-LED	505.5 x 57.1 x 335.1 mm 19.9 x 2.2 x 13.2 inch	5 kg 11 lbs

### < 2.2 > Dimension - ID-19Pw-LED

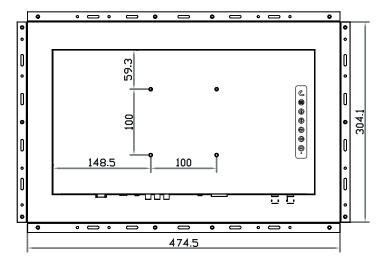
#### **Front View**



#### **Side View**

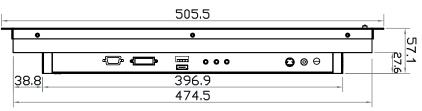


#### **Rear View**



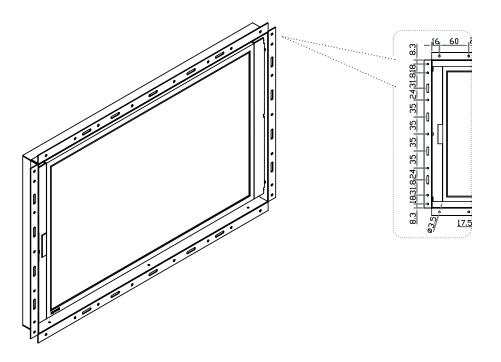
#### UNIT : mm 1mm = 0.03937 inch

#### **Bottom View**

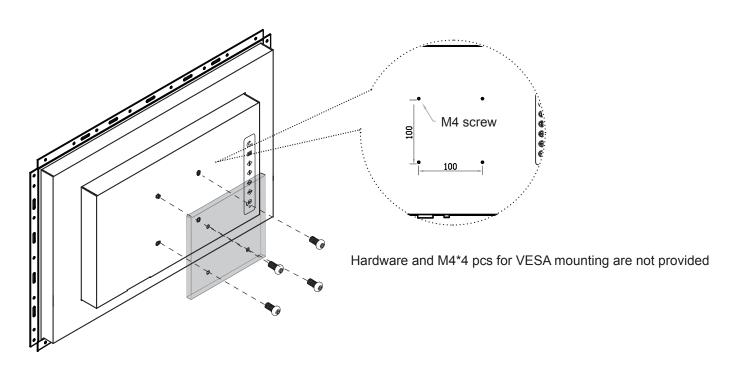


### < 2.3 > Installation - ID-19Pw-LED

### (I) Universal mount



### (II) VESA mount (100\*100mm)



### < Part 3 >

### < 3.1 > Product Specifications

No. of the second		ID-19Aw/AwN-L	ED ID-19Pw-LED
Design	Front Panel	Black, RAL 9005	5 -
	Rear Casing	Dark grey, RAL 70	37 Dark grey, RAL 7037
	VESA Mounting	100 x 100mm	100 x 100mm
	Other Mounting	Panel mount	Universal mount
	Protection	3mm protective gla	ass -
			<u>'</u>
_CD	Manufacturer		SAMSUNG
Panel	Panel Size ( diagonal )	19-inch W	idescreen TFT color LCD
	Display pixel ( dots x lines )		1440 x 900
	Brightness ( typ. )		250
	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	e 25%, Hard-coating
	Surface hardness		3H
	Backlight Type		LED
	MTBF ( hrs )		30,000
	,		
/ideo		VGA	Analog 0.7Vp-p
	Analog	VGA DVI	Analog 0.7Vp-p DVI-D, TMDS single link
			+ • • •
Connectivity			+ • • •
Connectivity	Analog	DVI	DVI-D, TMDS single link  Auto-sensing 100 to 240VAC,
Connectivity	Analog Power Supply	DVI	DVI-D, TMDS single link  Auto-sensing 100 to 240VAC, 50/60Hz
Connectivity	Analog Power Supply	DVI  Range  Screen display ON	DVI-D, TMDS single link  Auto-sensing 100 to 240VAC, 50/60Hz  25W or less
Connectivity	Analog Power Supply	DVI  Range  Screen display ON  Power saving mode  Power button OFF	DVI-D, TMDS single link  Auto-sensing 100 to 240VAC, 50/60Hz  25W or less  4W or less
Connectivity	Analog Power Supply	DVI  Range  Screen display ON  Power saving mode	DVI-D, TMDS single link  Auto-sensing 100 to 240VAC, 50/60Hz  25W or less  4W or less
Connectivity	Analog  Power Supply  Power Consumption	DVI  Range  Screen display ON  Power saving mode  Power button OFF	DVI-D, TMDS single link  Auto-sensing 100 to 240VAC, 50/60Hz  25W or less  4W or less
Power Regulatory	Analog  Power Supply  Power Consumption	DVI  Range  Screen display ON  Power saving mode  Power button OFF	DVI-D, TMDS single link  Auto-sensing 100 to 240VAC, 50/60Hz  25W or less  4W or less
Video Connectivity  Power  Regulatory  Environmental Conditions	Analog  Power Supply  Power Consumption  Safety Approval	DVI  Range  Screen display ON  Power saving mode  Power button OFF  FCC & CE	DVI-D, TMDS single link  Auto-sensing 100 to 240VAC, 50/60Hz  25W or less  4W or less  1W or less

Humidity

Shock Vibration 5~90%, non-condensing

5~500Hz 1G RMS random

10G acceleration (11ms duration)

Physical		ID-19Aw/AwN-LED	ID-19Pw-LED
Specification	Product (WxDxH)	508.5 x 63.6 x 338.1 mm 20 x 2.5 x 13.3 inch	505.5 x 57.1 x 335.1 mm 19.9 x 2.2 x 13.2 inch
	Net Weight	5 kgs / 11 lbs	5 kgs / 11 lbs

Applicable	VGA Input	PC Signal	1440 x 900 x 60Hz
Format			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

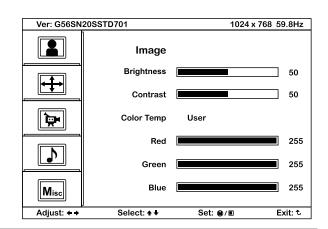
Membrane Switch
Function

Power on / off LCD

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

Options	Aw / AwN	Pw
SDI ***	✓	✓
HDMI* or DVI-D	✓	✓
S-Video * + Composite ( BNC )	✓	✓
Audio	✓	✓
Touchscreen	✓	✓
MCS multi-display control	✓	✓
DC Power	✓	✓
MIL-type / lockable connector	✓	✓
Quad display	<b>✓</b>	<b>✓</b>
TV ( Analog ) *	<b>✓</b>	<b>√</b>



#### \*\*\* 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 RM-1 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 RM-1 remote controller.
- (2) TV option comes with RM-2 remote controller.

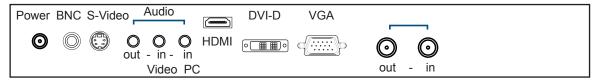
### < 4.2 > Options : 3G / HD / SD-SDI input



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 RM-1 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 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
75 ohm coaxial cable	HD-SDI	250m at 1.485Gb/s
	SD-SDI	480m at 270Mb/s

#### < 4.3 > Options : MCS

# MC (Multi-display Control)

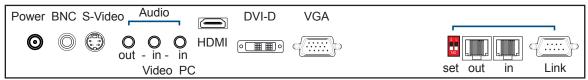


More control is always good. Especially when it is necessary and easy. Synergy Global Technology provides MC solution to control the OSD of various Industrial LCD displays up to 64 units.

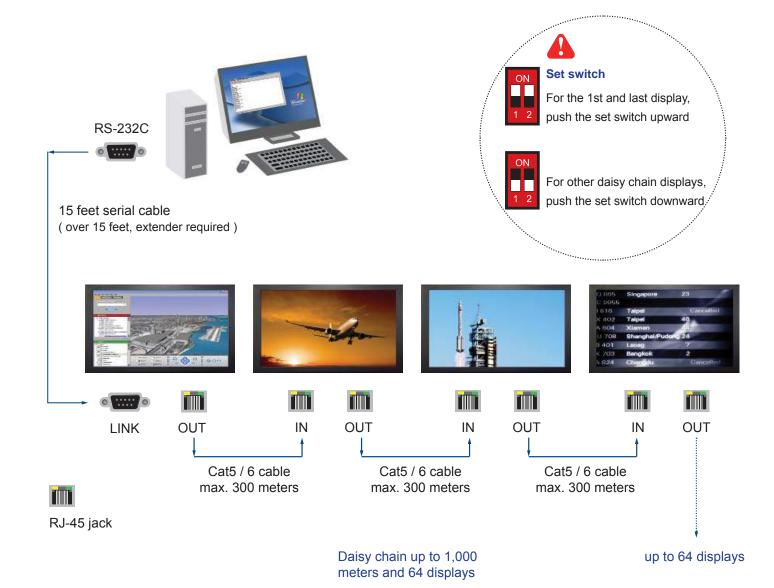
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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

#### MC



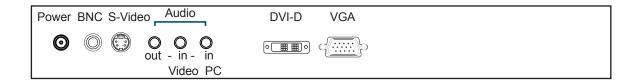
\*\*\* Please download the protocol of MC control at : http://www.rackmountmart.com/dataSheet/SGTI-Multi-Display\_Spec\_20703.pdf



### < 4.4 > Options:

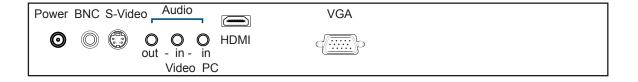
### **Ver 2.2D Upgrade Options**

- 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)



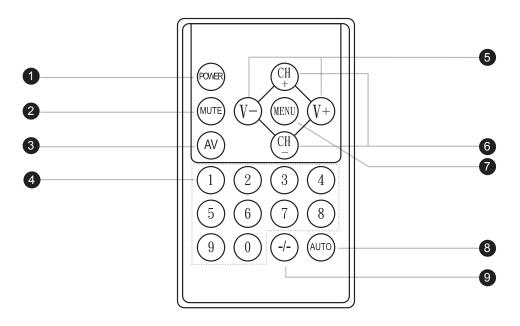
### **Ver 2.2H Upgrade Options**

- **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)



\*\*\*

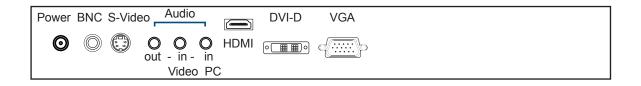
Ver 2.2 upgrade option comes with RM-1 remote controller x 1.



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

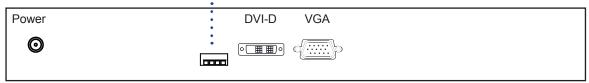


#### W19" USB Touchscreen Specification

Model	TRB Resistive	TCB Capacitive	
Technology	5-Wire Resistive	Capacitive	
<b>Touch Point</b>	Single	Single	
Method	Stylus or Finger	Finger	
<b>Activation Force</b>	≤ 50g / Stylus=R0.8	≤ 50g	
Durability	35 million touches	300 million touches	
Response Time	15 ms	20 ms	
Optical Transmittance	80% ± 3%	87% ±2%	
Surface Hardness	3H	9H	
Haze	8% ± 3%	7%	
Glass	3.2 ±0.2 mm	2.8 mm ±10%	
Connector	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**



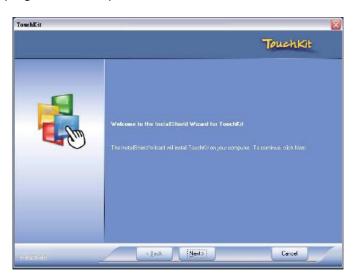
#### TRB & TCB Driver

#### 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	12V	24V	48V
Input rating			
Input voltage:	12-Volt	24-Volt	48-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V
Input current			
- No load	50 mA	50 mA	50 mA
- Full load	4950 mA	2450 mA	1220 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	84%	85%	85%

### < 4.8 > Options : MIL-type or Lockable Connector

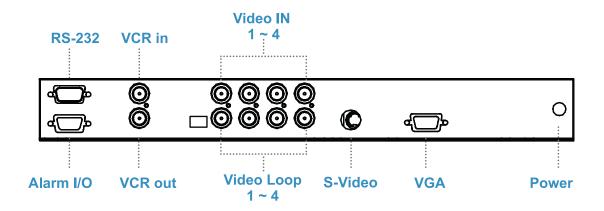
	Input	Part no	).	MIL Standard
MIL - type Connector	DC Power *** ( Male )	-MD (MS3470W8-33P)		MIL - DTL - 26482
	VGA *** ( Male )	-MA (MS3470W14-15P)		MIL - DTL - 26482

<sup>\*\*\*</sup> 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	

<sup>\*\*\*</sup> 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

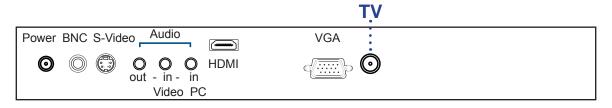


### **QD** Specification

	Item	Des	scription	
Model Number		QD (NTSC)	QD (PAL)	
Number of Color		16.7 M	16.7 M	
Imaging Systen	n	NTSC	PAL	
Resolution		1024 x 525	1024 x 625	
Refresh Rate		60	50	
Video Input	Camera Input	1.0 Vpp	o, 75 Ohm x 4	
video iriput	VCR Input	1.0 Vpp	o, 75 Ohm x 1	
	Live Monitor	1.0 Vpp	o, 75 Ohm x 1	
Video Output	Loop Through Out	1.0 Vpp	o, 75 Ohm x 4	
	VCR Output	1.0 Vpp, 75 Ohm x 1		
Auto Gain Cont	rol	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	

<sup>\*\*\*</sup> For QD option, casing dimensions will be changed.

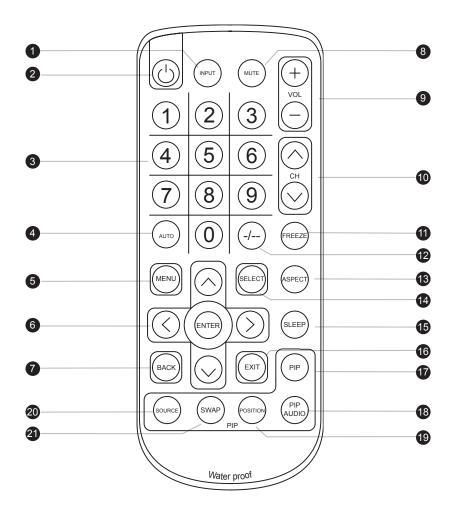
### < 4.10 > Options : TV ( Analog )



#### \*\*\* For TV option:

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

### **How to Use RM-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	<b>▲</b> / ♥ / <b>◄</b> / ▶ / 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	
<u> 17</u>	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
1	SWAP	Swap screen in PIP mode

