

## User Manual

17" / 19" High Brightness LED-backlit LCD 1000 cd/m<sup>2</sup>



### RP-H717 / RP-H819 Rackmount Display Panel

#### Options :

- SDI / MCS
- AV / DVI-D / Audio
- Touchscreen / DC power
- MIL-type or lockable connector



751

Designed and manufactured by Austin Hughes

## Legal Information

First English printing, January 2024

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 labelled 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 A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in business, industrial and commercial environments.

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

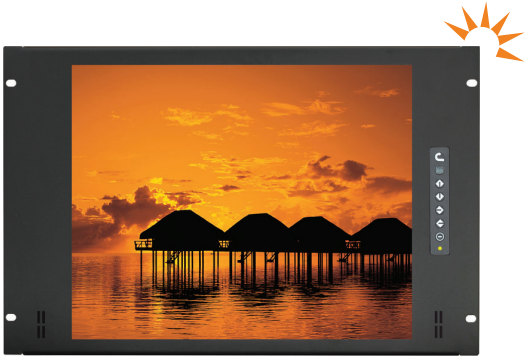
To remove tough marks and smudges, please follow these steps :

- ① Disconnect the power cord.
- ② Spray a small amount of non-abrasive cleanser on a microfiber cloth.



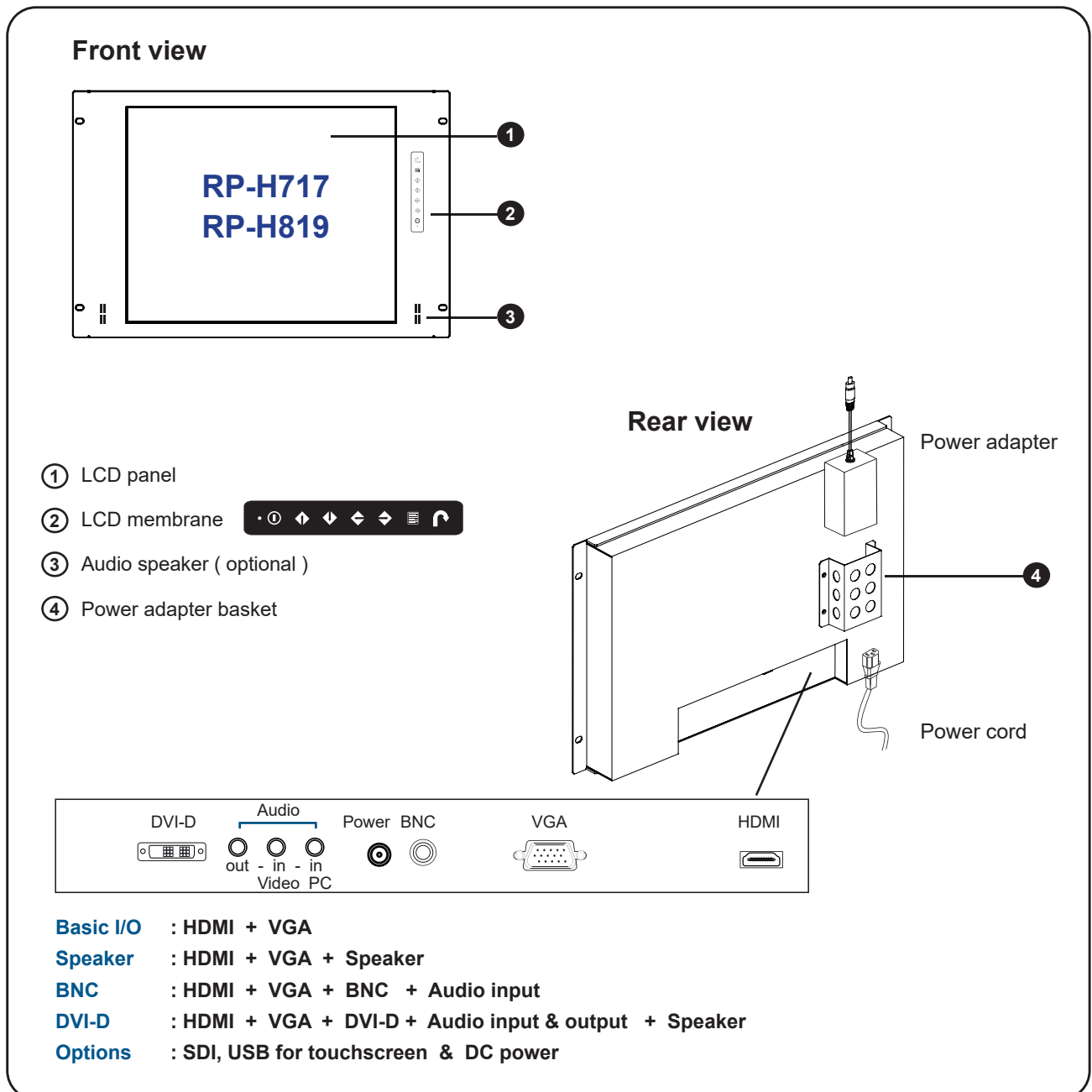
**Caution : Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.**

- 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.



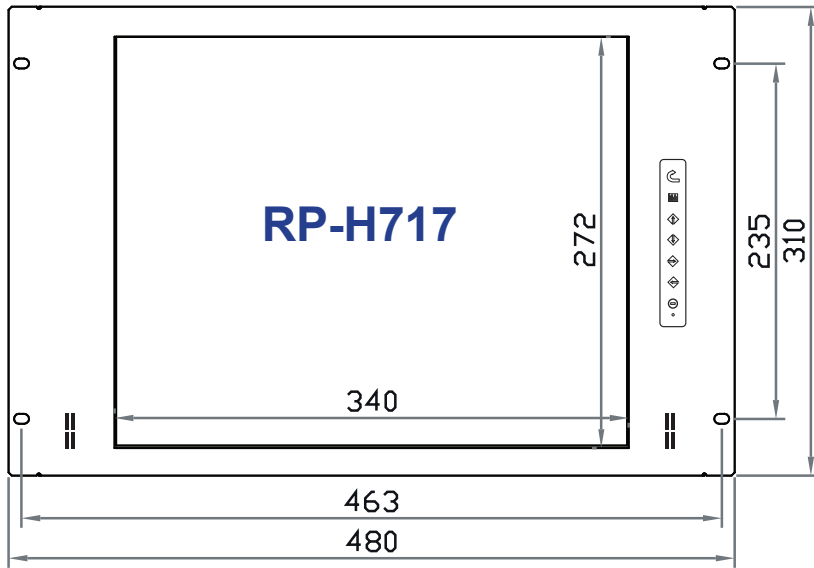
- RP-H717 or RP-H819 X 1
- 6ft VGA cable X 1
- Power adapter X 1
- Power cord X 1

< 1.2 > Structure Diagram

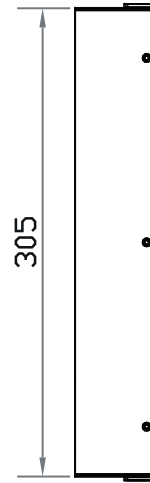


## < 1.2 > Dimension - RP-H717

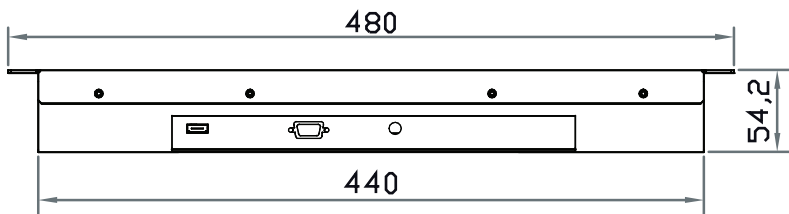
Front View



Side View



Bottom View

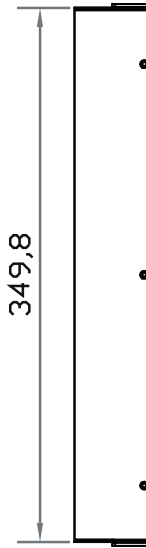
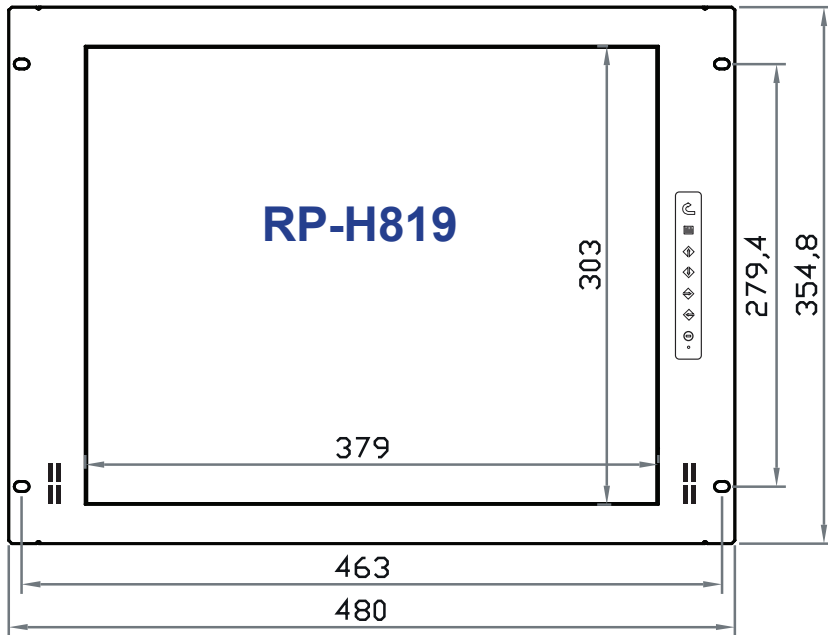


UNIT : mm  
1mm = 0.03937 inch

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
RP-H717	480 x 54.2 x 310 mm 18.9 x 2.1 x 12.2 inch	529 x 124 x 495 mm 20.8 x 4.9 x 19.5 inch	5.5 kg 12.1 lb	7.6 kg 16.7 lb

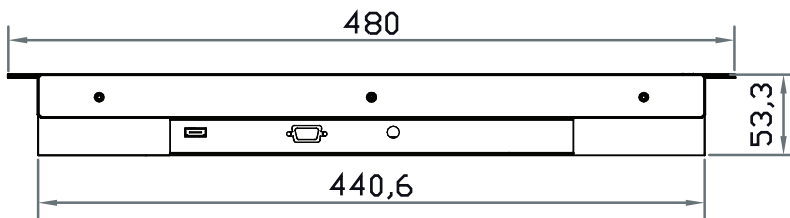
Front View

Side View



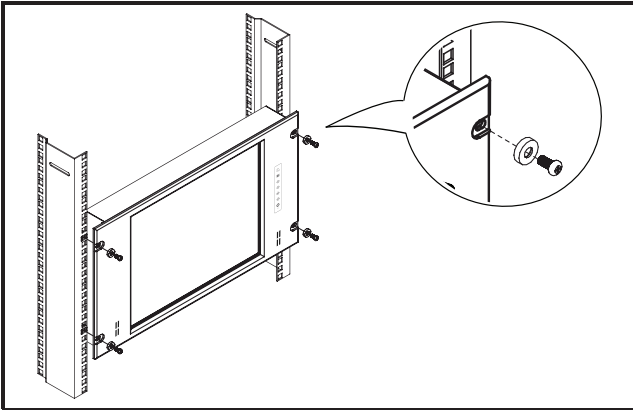
Bottom View

UNIT : mm  
1mm = 0.03937 inch



Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
RP-H819	480 x 53.3 x 354.8 mm 18.9 x 2.1 x 14 inch	539 x 129 x 529 mm 21.2 x 5.1 x 20.8 inch	5.7 kg 12.5 lb	8 kg 17.6 lb

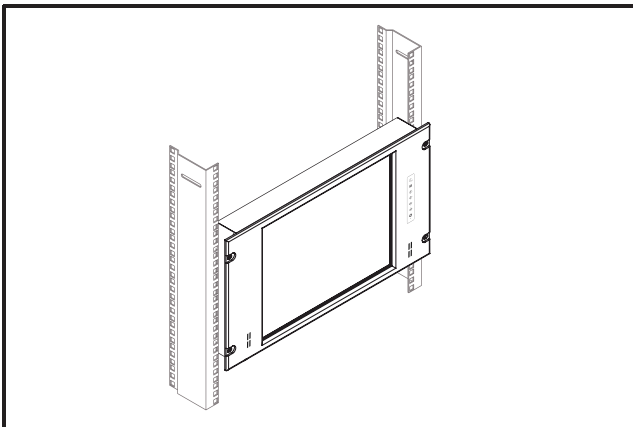
## < 1.3 > Installation



### Step 1

- Mount the display panel with M6 screw set.
- M6 screw x 4 pcs required ( Left & right side ).

**M6 screw sets are not provided.**



### Step 2

- Fix the LCD into the rack.



## < Part 2 > Specifications / OSD

### < 2.1 > Product Specifications - RP-H717 / RP-H819

RP-H717 / H819

LED-backlit LCD Panel		RP-H717	RP-H819
	Panel Size ( diagonal )	17-inch TFT color LED-backlit LCD	19-inch TFT color LED-backlit LCD
	Display pixel ( dots x lines )	1280 x 1024	1280 x 1024
	Brightness ( typ. )	1000	1000
	Contrast Ratio ( typ. )	1000:1	1000:1
	Color	16.7 M	16.7 M
	Viewing Angle ( L/R/U/D )	85/85/80/80	85/85/80/80
	Response Time ( ms )	5	5
	Dot pitch ( mm )	0.264	0.294
	Display Area ( mm )	337.92H x 270.33V	376.32H x 301.06V
	Surface treatment	Anti-glare	Haze 25%, Hard-coating
	Surface hardness	3H	3H
	Backlight Type	LED	LED
	MTBF ( hrs )	50,000	30,000

Video Connectivity	Digital	HDMI	HDMI 1.4, HDCP 1.4
		DVI	DVI-D, TMDS single link
	Analog	VGA	Analog 0.7Vp-p
		Composite ( BNC )	NTSC & PAL
	Plug & Play	DVI / VGA	VESA EDID structure 1.3
Synchronization	VGA	Separate, Composite & SOG	

Audio Connectivity	Audio Input	Connector	3.5mm stereo jack
		Impedance / Power level	30kΩ / 750mV
	Audio Output	Connector	3.5mm stereo jack
		Resistance / Power level	30kΩ / 2.8V
	Speaker	Dual Stereo Speaker	2W x 2

\* When the audio output is connected, speaker output is OFF

Power	Power Supply	Range	Auto-sensing 100 to 240VAC, 50 / 60Hz	
	Power Consumption	Screen ON	( RP-H717 ) ( RP-H819 )	Max. 30W Max. 39W
		Power saving mode		Max. 2W
		Power button OFF		Max. 1W

Compliance	EMC	FCC & CE
	Safety	CE / LVD & UKCA
	Environmental	RoHS3 & REACH / WEEE

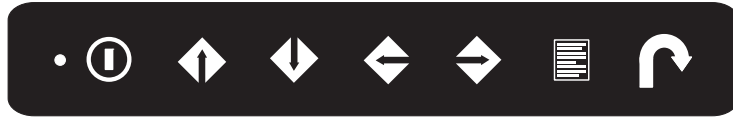
<b>Environmental Conditions</b>	Operating	Temperature	0 to 55°C degree
		Humidity	10~90%, non-condensing
		Altitude	16,000 ft
	Storage / Non-operating	Temperature	-20 to 60°C degree
		Humidity	5~90%, non-condensing
		Altitude	40,000 ft
		Shock	10G acceleration (11ms duration)
		Vibration	10~300Hz 0.5G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

<b>Physical Specification</b>		<b>RP-H717</b>	<b>RP-H819</b>
	Product ( W x D x H )	480 x 54.2 x 310 mm 18.9 x 2.1 x 12.2 inch	480 x 53.3 x 354.8 mm 18.9 x 2.1 x 14 inch
	Packing ( W x D x H )	529 x 124 x 495 mm 20.8 x 4.9 x 19.5 inch	539 x 129 x 529 mm 21.2 x 5.1 x 20.8 inch
	Net Weight	5.5 kg / 12.1 lb	5.7 kg / 12 lb
	Gross Weight	7.6 kg / 16.7 lb	8 kg / 17.6 lb

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

<b>Applicable Format</b>	DVI-D / VGA Input	PC Signal	1280 x 1024 x 60 / 75Hz	
			1280 x 960 x 60Hz	
			1280 x 768 x 60 / 75Hz	
			1152 x 864 x 75Hz	
			1024 x 768 x 60 / 70 / 75Hz	
			848 x 480 x 60Hz	
			800 x 600 x 60 / 72 / 75Hz	
			720 x 400 x 70Hz	
			640 x 480 x 60 / 72 / 75Hz	
			640 x 400 x 70Hz	
	640 x 350 x 70Hz			
	HDMI Input	PC Signal	Same as VGA	
			Video Signal	720p : 50 / 60Hz
				480p : 60Hz
576p : 50Hz				
Audio Signal	2ch Linear PCM ( 32 / 44.1 / 48 KHz )			

- 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)

**Select another video input (only available for models with multiple video input) :**

- ( a ) Press the button to call up the on-screen video mode on top right corner.
- ( b ) Use up/down arrow to the select the video input
- ( c ) Press the button to confirm the selection

## < 2.2 > On-screen Display Operation ( OSD )

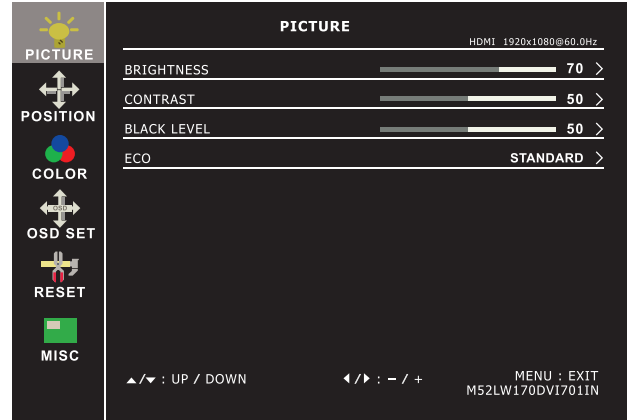
### ① Picture

Brightness : Adjust the screen brightness

Contrast : Adjust the difference between the image background ( black level ) and the foreground ( white level )

Black level : Adjust background black level of the screen

Eco : Screen in power saving mode



### ② Position

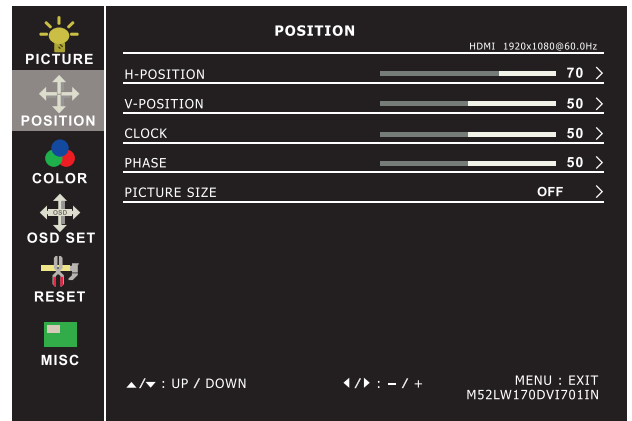
H-Position : To adjust the horizontal position of the video

V-Position : To adjust the vertical position of the video

Clock : To auto adjust H. Size of the screen

Phase : To fine tune the screen.

Picture size : FULL SCREEN / 4:3 / 5:4 / 16:10



### ③ Color

Color temperature : User / Warm / Cool / 5400k mode and Red / Green / Blue color balance

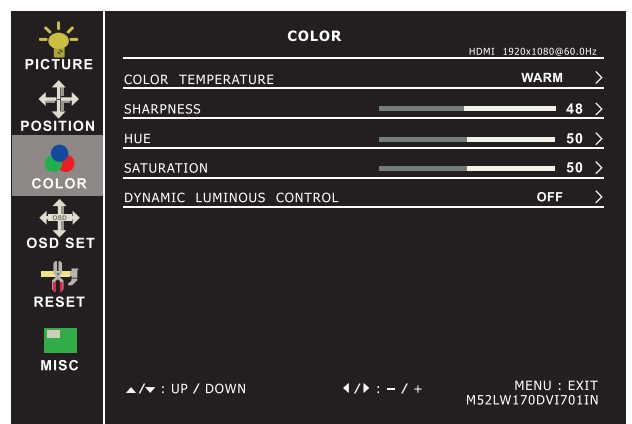
Sharpness : Adjust the image from weak to sharp

Hue : Adjust the screen hue value

Saturation : Adjust the saturation of the image color

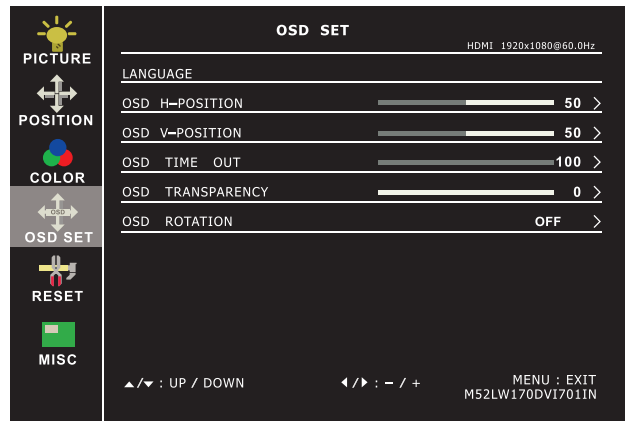
Dynamic

luminous control : Control the dynamic brightness



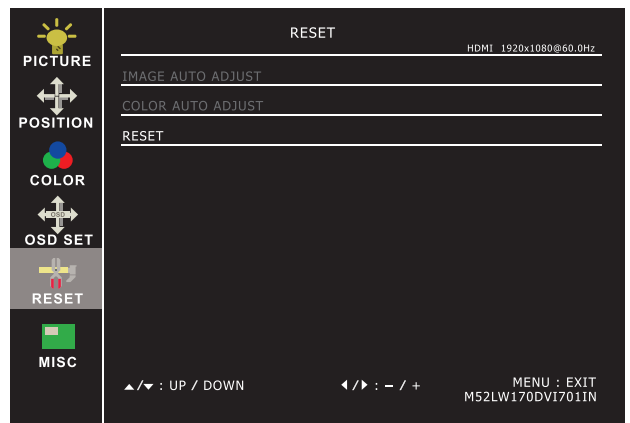
**④ OSD Set**

- Language : Select the language in which the OSD menu is displayed - English
- OSD H-Position : Align the screen image left or right
- OSD V-Position : Align the screen image up or down
- OSD time out : Adjust the screen timeout
- OSD transparency : Adjust the screen transparency
- OSD rotation : Rotate the screen - 90° / 180° / 270°



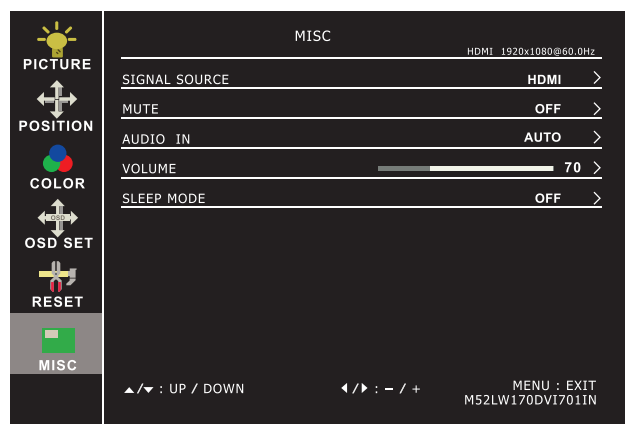
**⑤ Reset**

- Reset : Return the adjustment back to factory setting



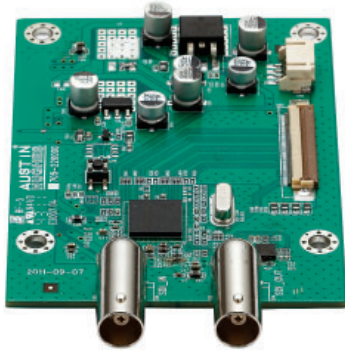
**⑥ MISC**

- Signal source : Select the signal source - DP / HDMI1 / HDMI2
- Mute : Turn off the surrounding sound
- Audio in : Auto / Line in / DP
- Volume : Adjust the volume of sound
- Sleep mode : Set the off time - 10 min / 20 min / 30 min / 50 min / 60 min / 120 min / 240 min



## < Part 3 > Options

### < 3.1 > Options : 3G / HD / SD-SDI input

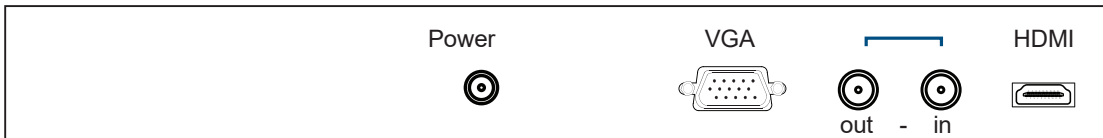


Austin Hughes' SDI input is an ideal solution for the broadcast-grade video and high resolution CCTV market.

Designed for use with CyberView displays, a SDI input module can support up to 1080p @60Hz resolution without using additional space or power and it comes standard with a 2-year warranty.

\* SDI option comes with speakers.

#### SDI



<b>INPUT</b>	3G-SDI IN	BNC x 1 / 0.8Vp-p ( 75 ohm )
	3G-SDI OUT	BNC x 1 / Active through, equalized & relocked

<b>Standard Compliance</b>	Video	SMPTE 425M / 274M / 296M / 125M ITU-R BT.656
	Audio	SMPTE 299M / 272M-C

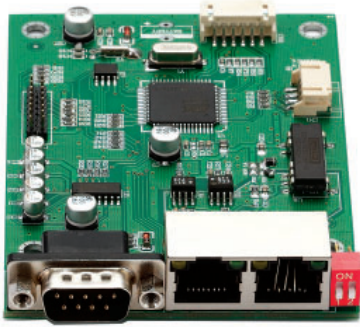
<b>Compatible Video Format</b>	3G-SDI	1080p @60 / 50Hz, 4:2:2
		1080p @30 / 25 / 24Hz, 4:4:4
		1080i @60 / 50Hz, 4:4:4
		720p @60 / 50Hz, 4:4:4
	HD-SDI	1080p @30 / 25 / 24Hz, 4:2:2
		1080i @60 / 50Hz, 4:2:2
	SD-SDI	720p @60 / 50Hz, 4:2:2
ITU-R BT.656	480i @60Hz, 4:2:2	
	576i @50Hz, 4:2:2	

<b>Compatible Audio Format</b>	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 / Asynchronous Video

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

## < 3.2 > Options : MCS ( Multi-display Control )

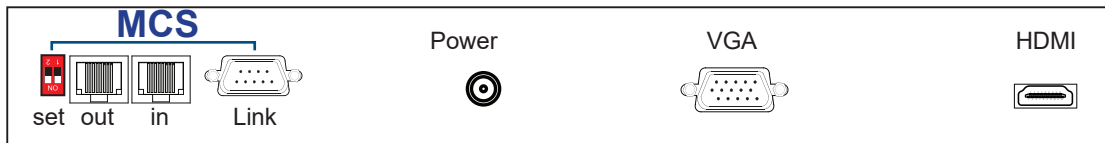
RP-H717 / H819



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

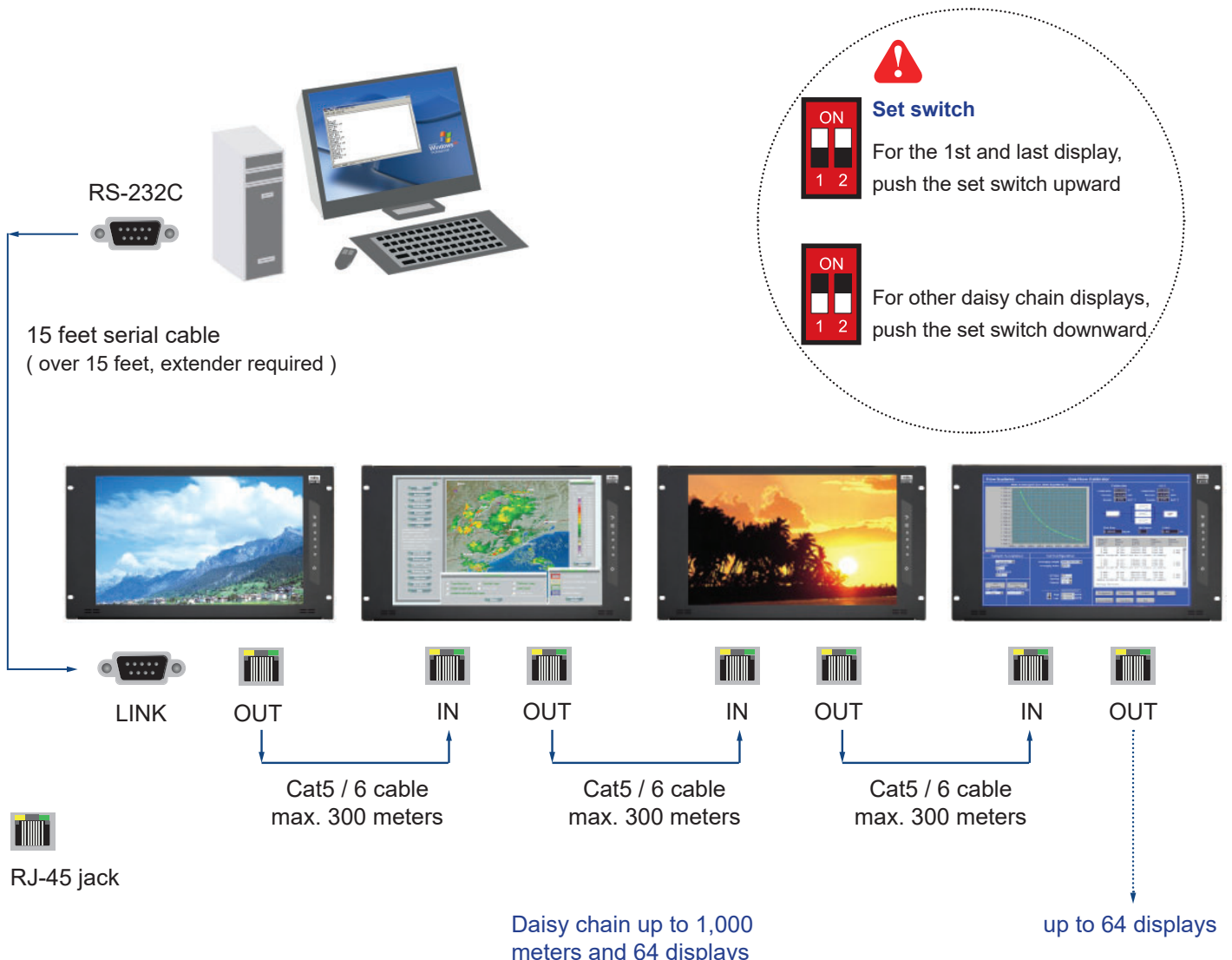
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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



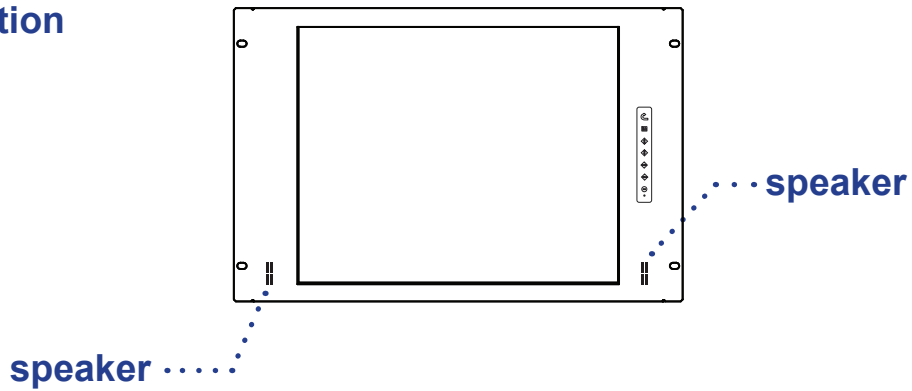
\*\*\* Please download the protocol of MCS control at :  
<http://www.austin-hughes.com/support/usermanual/cyberview/UM-CV-MCS.pdf>

\*\*\* For **MCS** option, casing depth will be changed.



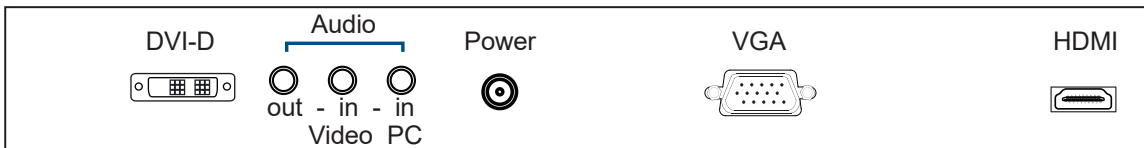
### < 3.3 > Options : Speaker, DVI-D, BNC

#### Speaker Option



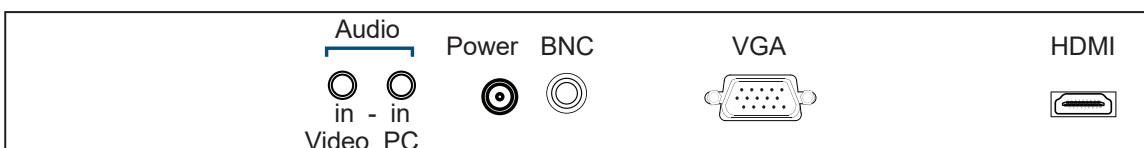
#### DVI-D Option

- DVI-D ( DVI-D, TMDS single link )
- Audio input & output
- Speaker



#### BNC Option

- BNC ( Composite, BNC )
- Audio IN
- Speaker







**Projected Capacitive 10-pt Touch screen Specification**

RP-H717	
Model	<b>TPC-10</b> Multi-touch
Technology	Projected Capacitive
Touch Point	10
Input Type	Finger or Capacitive Stylus
Resolution	4096 x 4096
Touch Point Accuracy	± 2 mm
Response Speed	< 5 ms
Activation Force	< 5 g
Surface Hardness	6H
Light Transmission	> 85%
Haze	3% ↓
Durability	50 million touches
Top Layer	1.8 mm Glass
Bottom Layer	0.7 mm Sensor Glass
Thickness	2.7 ± 0.1 mm
Connector	USB
Compatibility	Linux / Android / Windows / Mac

**Resistive 1-pt / Capacitive 1-pt Touchscreen Specification**

Model	RP-H717		RP-H719	
	Technology	TRB e-Resistive		TCB e-Capacitive
Touch Point	5-Wire Resistive		Capacitive	
Method	Single		Single	
Activation Force	Stylus or Finger		Finger	
Durability	≤ 50g / Stylus=R0.8		≤ 50g	
Response Time	35 million touches		300 million touches	
Optical Transmittance	15 ms		20 ms	
Surface Hardness	80% ± 3%		93% ±2%	
Haze	3H		9H	
Glass	8% ± 3%		7%	
Connector	1.4 ±0.2 mm	3.2 ±0.2 mm	2.8 mm ±10%	2.8 mm ±10%
Compatibility	USB Type A		USB Type A	
Compatibility	Windows 7 / XP / Vista, Linux		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
- Extra 1U chassis height will be increased after integration.

**USB Touchscreen**



## < 3.4 > 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.austin-hughes.com/resources/driver/rackmount-display>

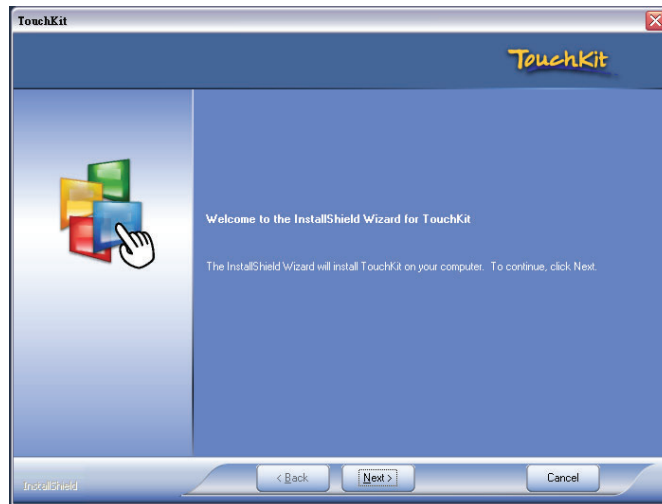
**Step 2.** Double click the Setup.exe

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

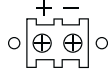
**Step 4.** After installation, run the TouchKit program & the “4 point calibration”



Please do the initial calibration  
after the first setup



## < 3.5 > DC Power



RP-H717 / H819

Model	12V	24V	48V	125V	250V
<b>Input rating</b>					
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt	300-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V	180 ~ 425V
Input current					
- No load	50 mA	50 mA	50 mA	35 mA	10 mA
- Full load	4950 mA	2450 mA	1220 mA	749 mA	600 mA
<b>Output rating</b>					
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	6.25A	12.5A
<b>Efficiency</b>	84%	85%	85%	91%	86%



\*\*\* For DC power option :

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

## < 3.6 > MIL-type or Lockable Connector

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

\*\*\* There are several additional MIL DC and VGA connector types with varying design characteristics to meet cost considerations and to provide users with the most design flexibility possible. For more information, please contact us.

	Input	Part no.	Standard
<b>Lockable Connector</b>	DC Power ( Male )	YM-Ext-461CP001 	D-type 3W3
	USB	LUSB - A111 - 00 	-

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

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