

User Manual 17" LCD



Designed and manufactured by Austin Hughes

Legal Information

First English printing, December 2018

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.
 - \Box Normal wear and tear.
 - $\hfill\square$ Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

How To Clean Your LCD Monitor

A 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 > AP-17 / NAP-17 / HAP-17 / HNAP-17 < 1.1 > Package Content

6ft VGA cable X 1	
Power adapter X 1 Power cord X 1	
- Mounting bracket x 4 pcs - M4* 6mm screw x 8 pcs	
- M4* 50mm screw x 8 pcs	

Basic I/O

Power	DVI-D VGA
O	

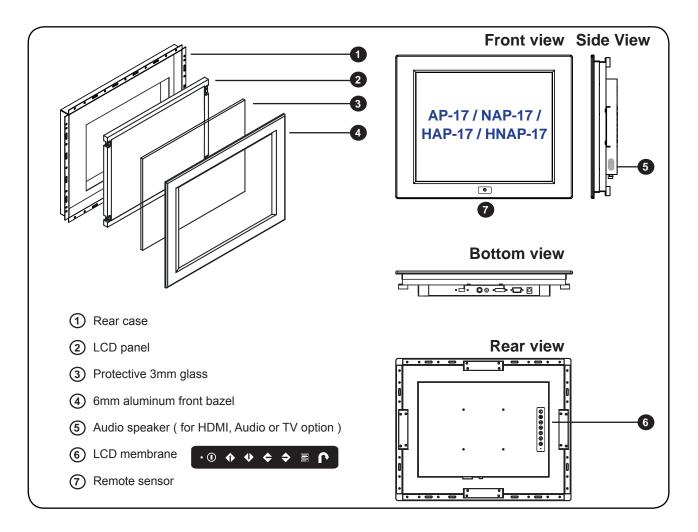
AV2.2D upgrade I/O

Power BNC S-Video Audio	DVI-D VGA	
OOO out - in - in Video PC		

AV2.2H upgrade I/O

Power BNC S-Video Audio	VGA	
O O C HDMI out - in - in Video PC	<i>در</i>	

< 1.2 > Structure Diagram



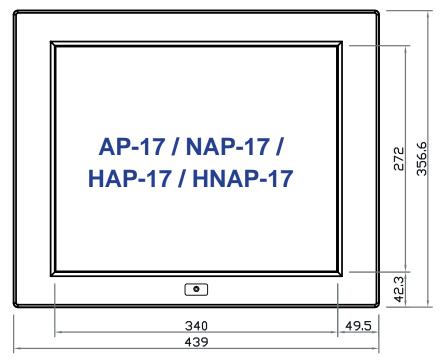
Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
AP-17 NAP-17 HAP-17 HNAP-17	439 x 64.2 x 356.6 mm 17.3 x 2.5 x 14 inch	615 x 113 x 523 mm 24.2 x 4.4 x 20.6 inch	6.6 kg 14.5 lb	9.2 kg 20.2 lb

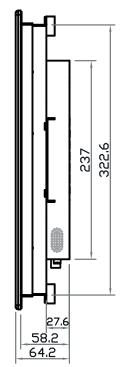
< 1.2 > Dimension

17" LCD Display

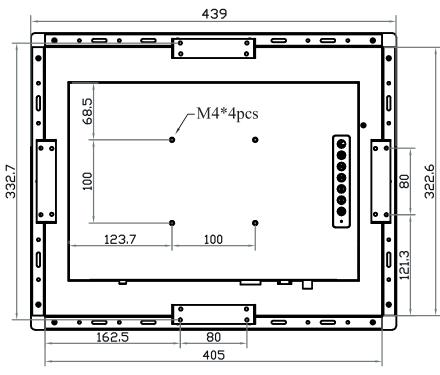
Front View

Side View



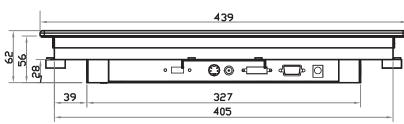


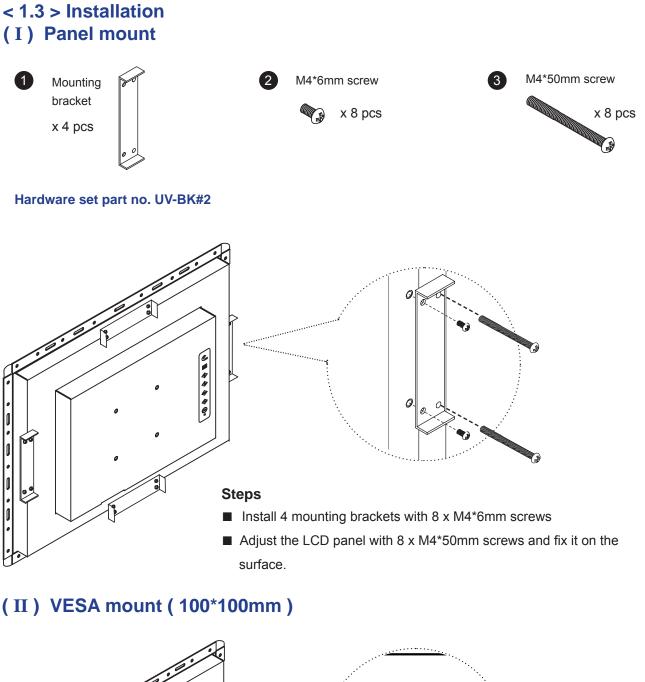
Rear View

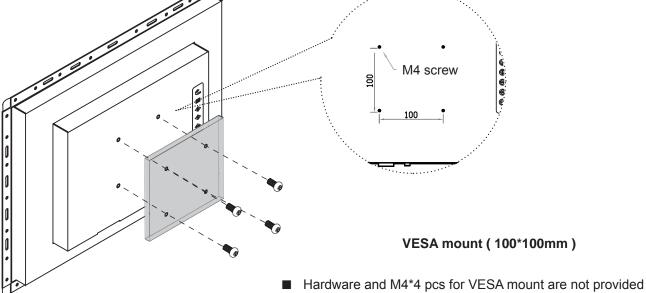


UNIT : mm 1mm = 0.03937 inch

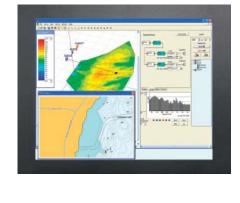
Bottom View







DP-17 / HDP-17



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

Basic I/O

Power	DVI-D VGA
Ø	

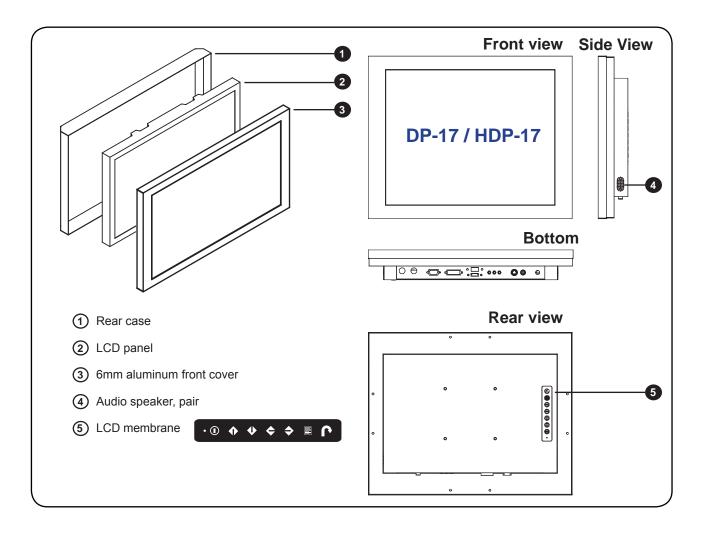
AV2.2D upgrade I/O

Power BNC S-Video Audio	DVI-D VGA	
O O O out - in - in Video PC		

AV2.2H upgrade I/O

Power BNC S-Video Audio	VGA	
OOCHDMI out - in - in Video PC		

< 2.2 > Structure Diagram



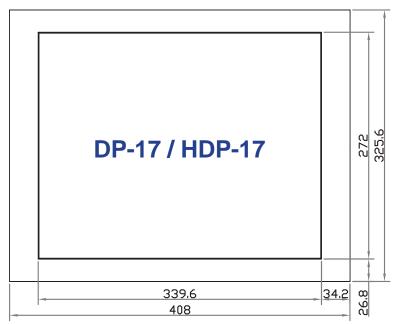
Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
DP-F17	408 x 59.5 x 325.6 mm	615 x 113 x 523 mm	5.8 kg	8.4 kg
HDP-F17	16.1 x 2.3 x 12.8 inch	24.2 x 4.4 x 20.6 inch	12.8 lb	18.5 lb

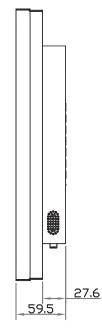
< 2.2 > Dimension

17" LCD Display

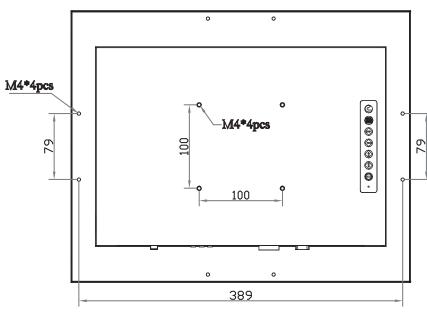
Front View

Side View



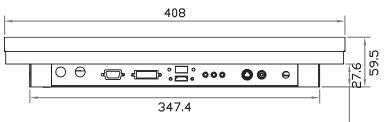


Rear View

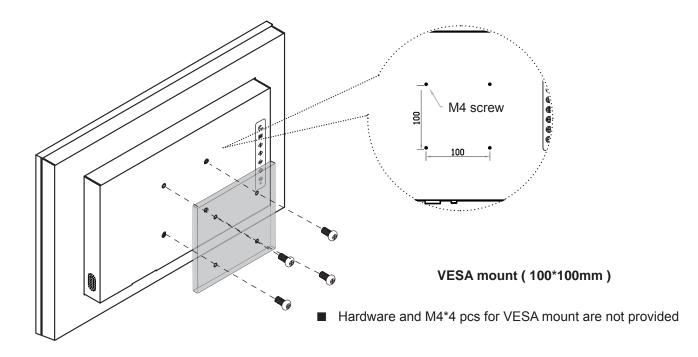


UNIT : mm 1mm = 0.03937 inch

Bottom View



< 2.3 > VESA mount Installation



< Part 3 > OP-17 / HOP-17 < 3.1 > Package Content

OP-17 / HOP-17



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

Basic I/O

Power	DVI-D VGA
O	

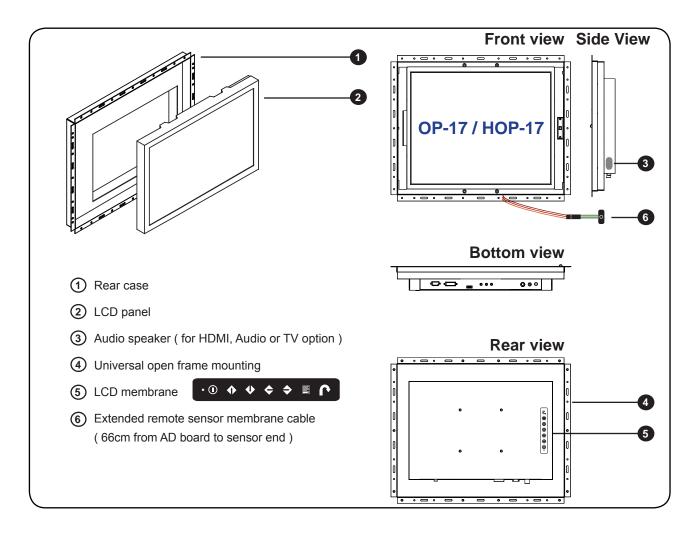
AV2.2D upgrade I/O

Power BNC S-Video Audio	DVI-D VGA	
O O O O O O O O O O O O O O O O O O O	• •	

AV2.2H upgrade I/O

Power BNC S-Video Audio	VGA
OOOH out - in - in Video PC	MI <u>(</u>)

< 3.2 > Structure Diagram



Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
OP-17	436 x 58.2 x 353.6 mm	615 x 113 x 523 mm	4.9 kg	7.5 kg
HOP-17	17.2 x 2.3 x 13.9 inch	24.2 x 4.4 x 20.6 inch	10.8 lb	16.5 lb

< 3.2 > Dimension

17" LCD Display

Front View

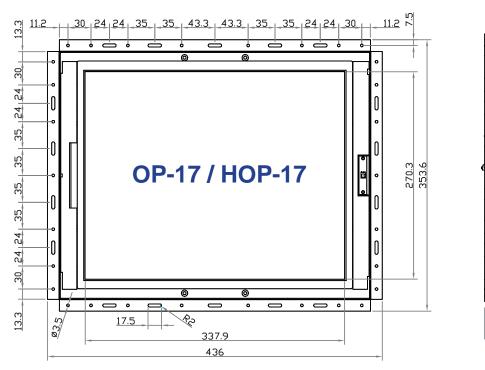
Side View

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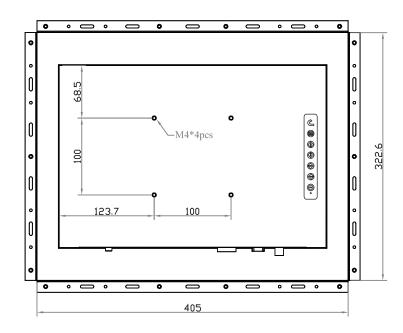
27.6

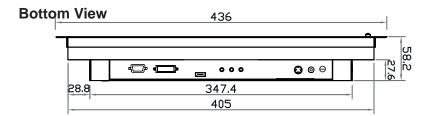
58.2



UNIT : mm 1mm = 0.03937 inch

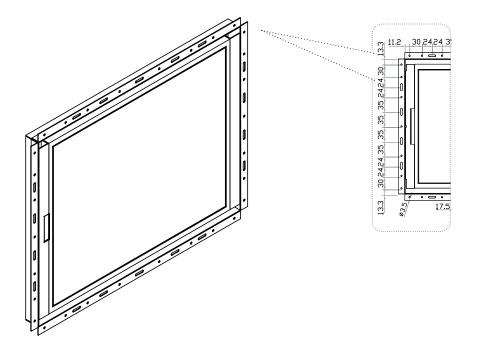
Rear View



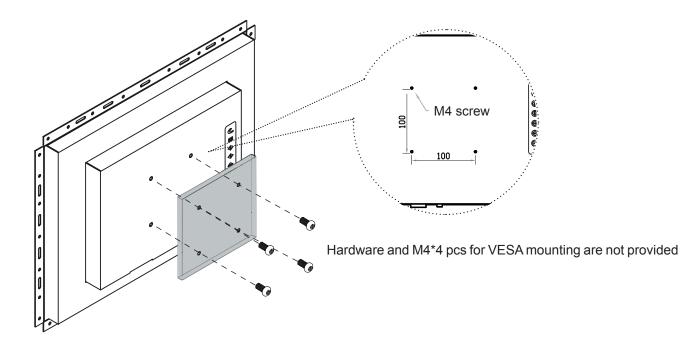


< 3.3 > Installation

(I) Universal mount



(II) VESA mount (100*100mm)



< Part 4 >

< 4.1 > Product Specifications

17" LCD Display

Mechanical Design	AP-17 / HAP-17	NAP-17 / HNAP-17	DP-17 / HDP-17	OP-17 / HOP-17
Protection	6mm front bezel	NEMA 4 / IP65	front cover	open frame
Front Panel	Black, RAL 9005 -			
Rear Casing	Black, RAL 9005			
VESA mount	100 x 100 mm			
Universal mount	rea		ready	
Desktop stand	option option		option	-
Panel mount	bundled		-	-

LCD Panel	Standard	Sunlight Readable	
Brightness (cd/m ²)	250	1000 ~' £	
Surface treatment	Haze 25%, Hard-coating	Anti-glare	
MTBF (hrs)	30,000	50,000	
Panel Size (diagonal)	17-inch TF	Γ color LCD	
Native resolution	1280 >	< 1024	
Contrast Ratio (typ.)	1000 : 1		
Colors	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)	337.92H x 270.33V		
Surface hardness	3Н		
Backlight Type	LED		

Video	
VGA	Analog 0.7Vp-p
DVI	DVI-D single link
Option HDMI	HDMI 1.2 / HDCP 1.1
Composite (BNC)	NTSC & PAL
S-Video (4-pin)	NTSC & PAL

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

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

Power	Standard	Sunlight Readable	
Input	Auto-sensing 100 to 240VAC, 50 / 60Hz		
Consumption:			
Screen ON	Max. 25W	Max. 35W	
Power saving mode	Max. 4W	Max. 4W	
Power button OFF	Max. 1W	Max. 1W	

Compliance	
EMC	FCC & CE certified
Safety	CE / LVD certified
Environment	RoHS2 & REACH compliant

< 4.1 > Product Specifications

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

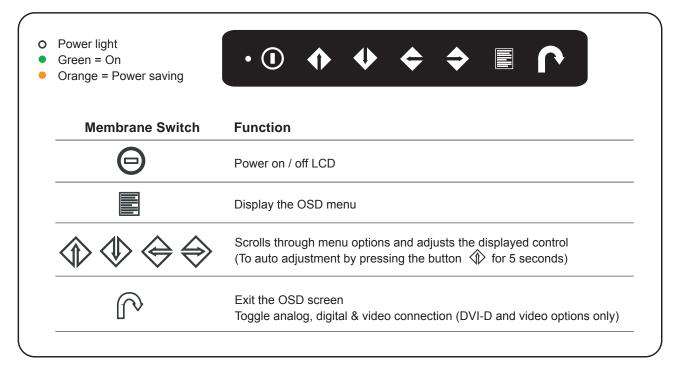
Physical Specification	AP-17 / HAP-17	NAP-17 / HNAP-17	DP-17 / HDP-17	OP-17 / HOP-17
Product (W x D x H)				
mm	439 x 64.	2 x 356.6	408 x 59.5 x 325.6	436 x 58.2 x 353.6
inch	17.3 x 2.5 x 14		16.1 x 2.3 x 12.8	17.2 x 2.3 x 13.9
Packing (W x D x H)				
mm	615 x 113 x 523		615 x 113 x 523	615 x 113 x 523
inch	24.2 x 4.4 x 20.6		24.2 x 4.4 x 20.6	24.2 x 4.4 x 20.6
Net Weight	6.6 kg / 14.5 lb	6.6 kgs / 14.5 lb	5.8 kg / 12.8 lb	4.9 kg / 10.8 lb
Gross Weight	9.2 kg / 20.2 lb	9.2 kgs / 20.2 lb	8.4 kg / 18.5 lb	7.5 kg / 16.5 lb
Chassis color	dark			
Chassis materials	Aluminum			

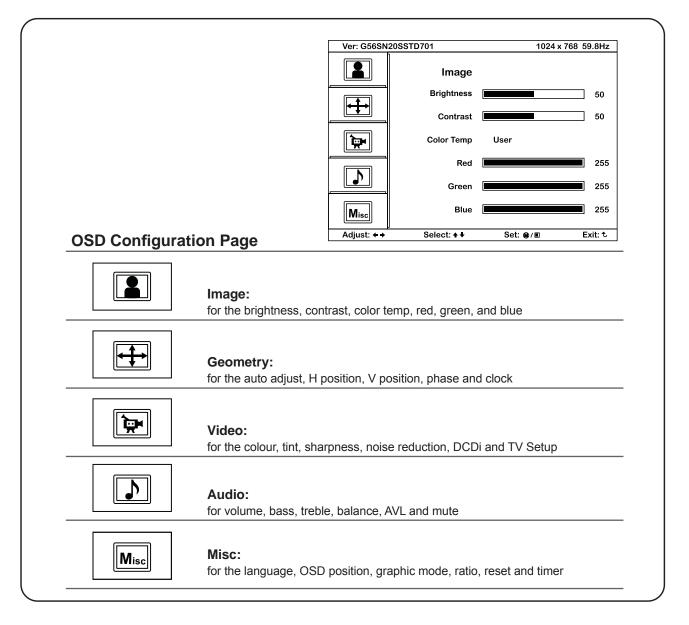
Applicable Format		
PC Signal	1280 x 1024 x 60 / 75Hz	
	1280 x 960 x 60Hz	
	1280 x 768 x 60 / 75Hz	
	1152 x 864 x 75Hz	
	1024 x 768 x 60 / 70 / 75Hz	
	848 x 480 x 60Hz	
	800 x 600 x 60 / 72 / 75Hz	
	720 x 400 x 70Hz	
	640 x 480 x 60 / 72 / 75Hz	
	640 x 400 x 70Hz	
	640 x 350 x 70Hz	
Audio Signal	2ch Linear PCM	
PC signal	Same as VGA	
HDMI 1.2	1280 x 720 x 50 / 60Hz (720p)	
	720 x 480 x 50 / 60Hz (576p / 480p)	
Audio Signal	2ch Linear PCM	
	Audio Signal PC signal HDMI 1.2	

* In some circumstances, if the user connects the LCD to PC via HDMI port for video and audio signals, the LCD may display incorrectly on a full screen. If so, please adjust the display card setting on display size to fix the issue.

< 4.2 > On-screen Display Operation (OSD)

17" LCD Display





< Part 5 > Option < 5.1 > Option Table

Options	AP / NAP	HAP / HNAP	DP	HDP	ОР	НОР
HDMI * or DVI-D	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
S-Video * + Composite (BNC)	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Audio	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Touchscreen	 ✓ 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
MCS multi-display control	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
DC Power	 ✓ 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
MIL-type / lockable connector	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Quad display	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
TV (Analog) *	 ✓ 	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Auto / switch dimming		\checkmark		\checkmark		\checkmark



* About HDMI and DVI-D

(1) For AV2.2 upgrade, either HDMI or DVI-D is provided.

(2) In some circumstances, if the user connects the LCD to PC via HDMI port for video and audio signals, the LCD may display incorrectly on a full screen. If so, please adjust the display card setting on display size to fix the issue.

- * Remote Controller
- (1) AV2.2 upgrade comes with RC-2 remote controller.
- (2) TV option comes with RC-2 remote controller.

< 5.2 > Options : MCS (Multi-display Control)

17" LCD Display

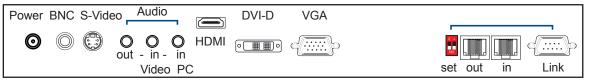


More control is always good. Especially when it is necessary and easy. Austin Hughes provides MCS solution to control the **OSD** of various UltraView LCD display up to 64 units.

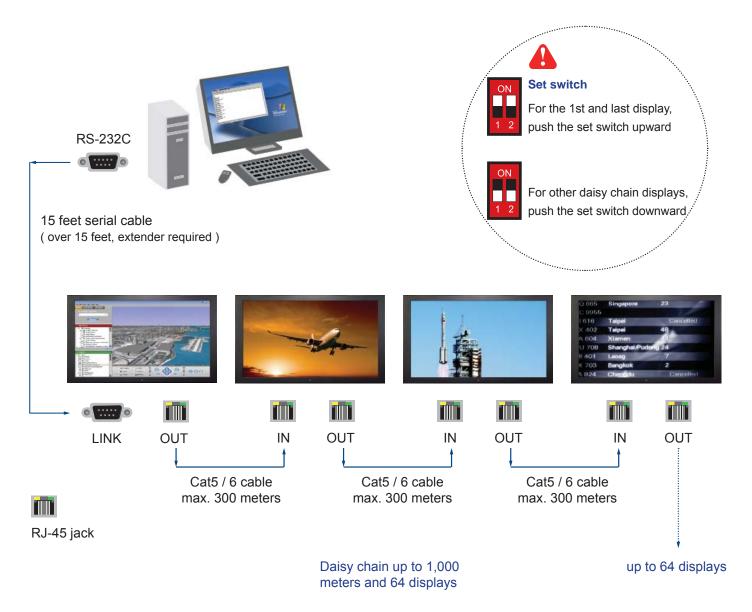
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

Designed for use with UltraView 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/ultraview/UM-UV-MCS.pdf



< 5.3 > Options :

AV2.2D Upgrade Options

- DVI-D (DVI-D TMDS single link
- AV (S-Video + Composite, BNC)
- Audio (Built-in Dual Stereo Speakers, 2W x 2)
 (3.5mm audio jacks for audio in & out)

Power BNC S-Video Audio	DVI-D	VGA
OOO out - in - in Video PC		

)

AV2.2H Upgrade Options

- HDMI (HDMI 1.2, CEA-861-D)
- AV (S-Video + Composite, BNC)
- Audio (Built-in Dual Stereo Speakers, 2W x 2) (3.5mm audio jacks for audio in & out)

Power	BNC S-Video Audio	VGA	
0	O O O HDMI out - in - in Video PC		

- (1) In some circumstances, if the user connects the LCD to PC via HDMI port for video and audio signals, the LCD may display incorrectly on a full screen. If so, please adjust the display card setting on display size to fix the issue.
- (2) AV2.2 upgrade option comes with RC-2 remote controller x 1 (please refer to P.25)

< 5.4 > Options : Touchscreen & driver



Model	17TPC-10 Multi-touch	TRB e-Resistive	TCB e-Capacitive	
Technology	Projected Capacitive	5-Wire Resistive	Capacitive	
Touch Point	10	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	Olasa	
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 / XP / Vista, Linux		P / Vista, Linux	

17" USB Touchscreen Specification

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
Ο	

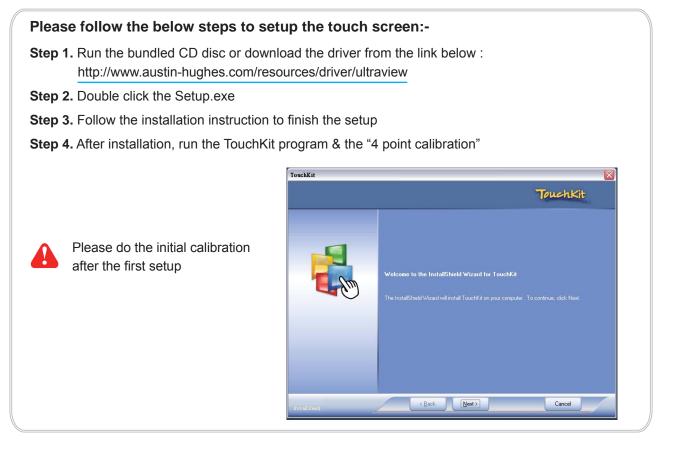
< 5.4 > Options : Touchscreen & driver



17TPC-10 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



< 5.5 > Options : DC Power

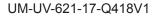


17" LCD Display

Model	12V	24V	48V	125V
Input rating				
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V
Input current				
- No load	50 mA	50 mA	50 mA	35 mA
- Full load	4950 mA	2450 mA	1220 mA	749 mA
Output rating				
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	4.16A	6.25A
Efficiency	84%	85%	85%	91%

******* For DC power option :

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



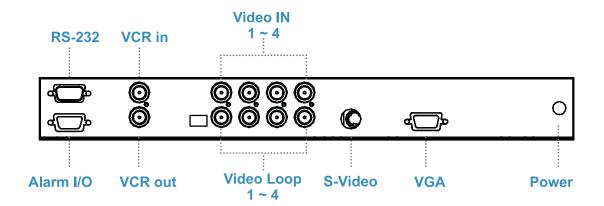
< 5.6 > Options : MIL-type or Lockable Connector

	Input	Part no	0.	MIL Standard
MIL - type Connector	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
Lockable Connector	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.

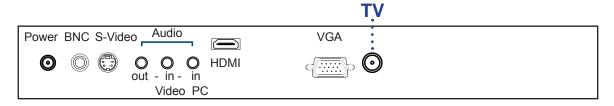


QD Specification

Item Descri		cription		
Model Number		QD (NTSC)	QD (PAL)	
Number of Color		16.7 M	16.7 M	
Imaging Syster	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	o, 75 Ohm x 1	
Auto Gain Control		Yes		
Time / Date		Yes		
On Screen Display		Yes		
Camera Title 8 Character Title		aracter Title		
	2 x Zoom On Playback		Yes	
Display Format	QUAD		Yes	
	FULL		Yes	
	SEQUENCY		Yes	
Dwell Time		0 to 99 S	Sec Adjustable	
Alarm Inputs		Selectable NO/NC Contacts x 4		
Relay Outputs		NO/NC contacts x 1: 1A @DC24V Max.		
Alarm Hold Time 1 S		1 Sec	to Non-stop	
Built-in Buzzer Yes		Yes		
Key Lock			Yes	

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

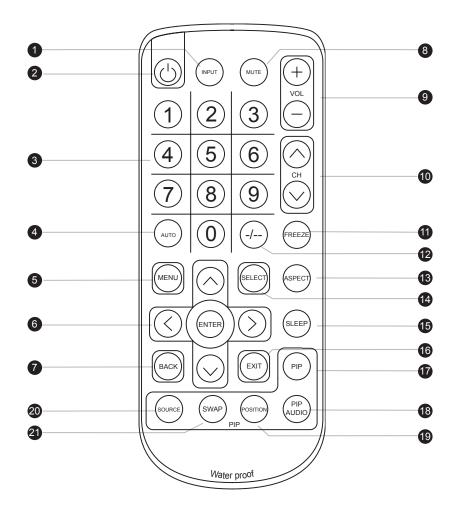
< 5.8 > Options : TV (Analog)



******* For TV option :

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

How to Use RC-2 Remote Controller

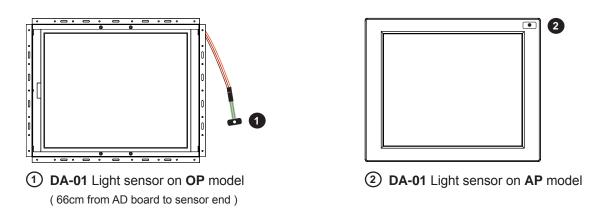


1	INPUT	Select the source
2	Ċ	Switches on or off the TV
3	0 - 9	Only use in TV mode. Select channels. For channel numbers 10 and above, enter the second digit within two seconds.
4	AUTO	Auto adjust
5	MENU	Display the menu on the screen or go to the previous menu
6	▲ / ▼ / ◀ / ► / ENTER	Go to the upper 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
2)	SWAP	Swap screen in PIP mode

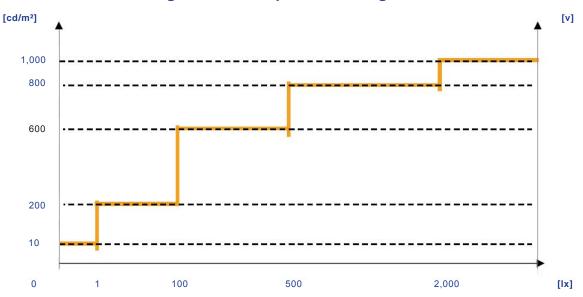
< 5.9 > Options for Sunlight Readable : Auto Dimming



DA-01 light sensor installed on the display front panel. Users can set auto dimming ON or OFF from OSD menu. Then display brightness changes according to its ambient brightness. Each change causes 10% increase or decrease on display brightness.

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

Steps : OSD Menu > Picture > Auto Dimming > ON



Light Sensor Operation Range

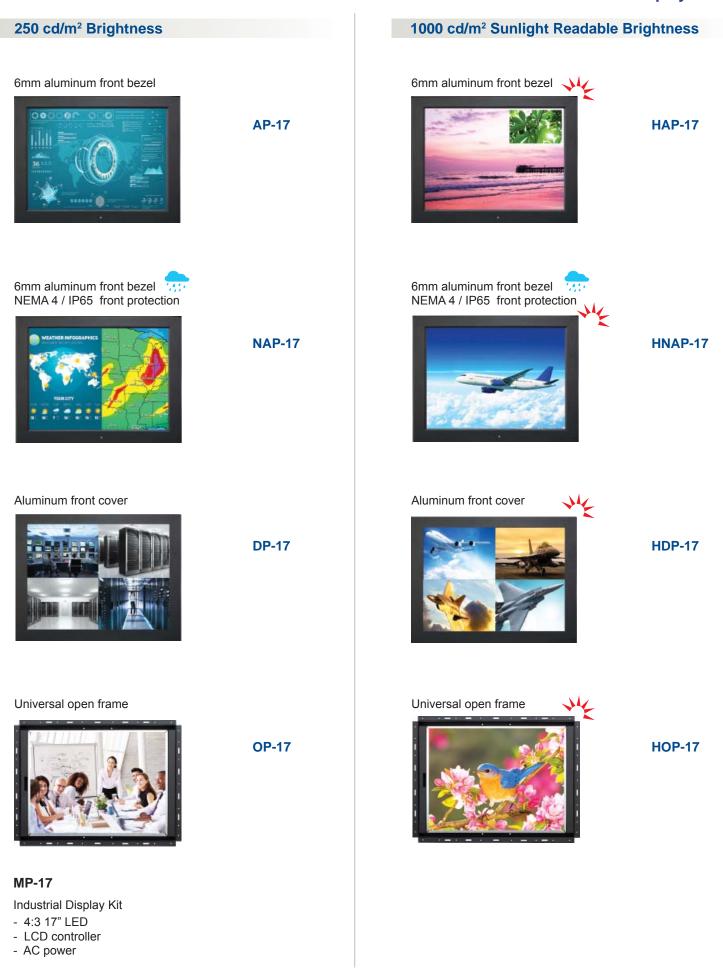
Options : Switch Dimming

DS-01 is a IP54 dimming knob installed on the bottom right side of the front panel. The display can support hyper dimming function to adjust brightness from nearly 0% to 100% via the easy-to-use knob. One click on dimming knob causes 2% increase or decrease on display brightness.





17" LCD Display



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