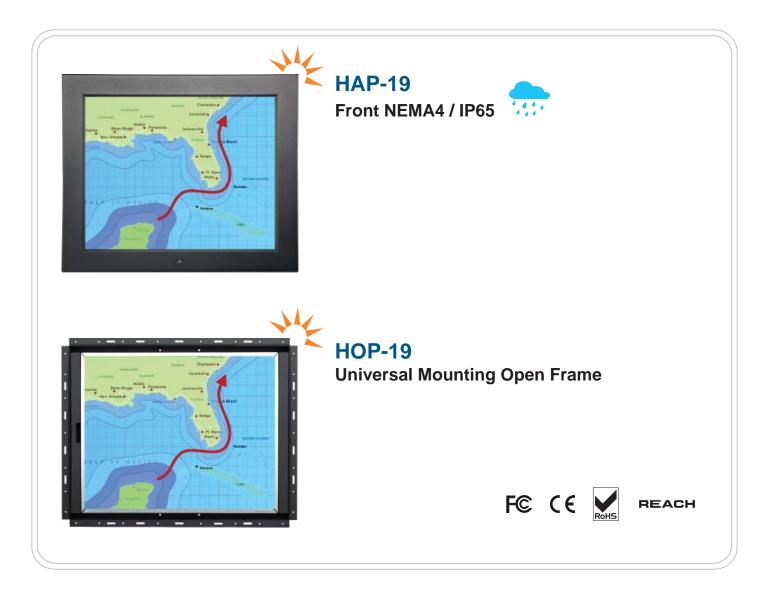


User Manual 19" High Brightness LCD



Designed and manufactured by Austin Hughes

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 >	HAP-19	
1.1 1.2 1.3	Package Content Structure Diagram & Dimension Mounting Hardware & Installation	P.1 P.2 - 3 P.4 - 5
< Part. 2 >	HOP-19	
2.1	Package Content	P.6
2.2	Structure Diagram & Dimension	P.7 - 8
2.3	Mounting Hardware & Installation	P.9
< 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	3G / HD / SD- SDI Broadcast-grade input	P.14
4.3	MCS Multi-display control solution	P.15
4.4	AV2.2D Upgrade : DVI-D, S-Video + BNC & Audio	P.16 - 17
	AV2.2H Upgrade : HDMI, S-Video + BNC & Audio	
4.5	AV3.0 Upgrade : HDMI, DVI-D, S-Video + BNC & Audio	P.18
4.6	Projected Capacitive (4-point touch)	P.19 - 20
4.7	Resistive / Capacitive (single point touch)	D 20
4.7 4.8	DC Power: 24V / 48V / 110 ~ 125V MIL-type or lockable connector	P.20 P.21
4.0	Quad display for CCTV	P.22
4.10	TV (Analog)	P.23 - 24
4.11	Auto / switch dimming	P.25

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.

Caution: Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your

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.
- 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 - HAP-19



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

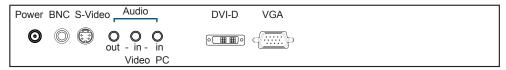
Mounting hardware X 1 pack

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

Basic I/O



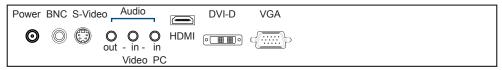
AV2.2D upgrade I/O



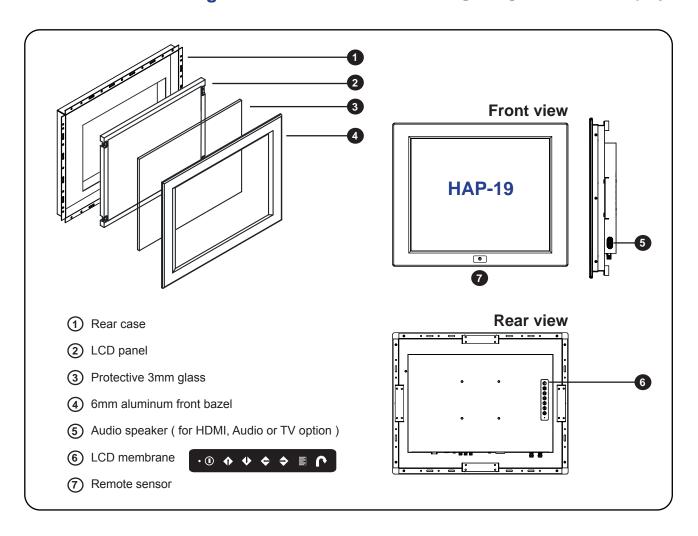
AV2.2H upgrade I/O



AV3.0 upgrade I/O with advanced features



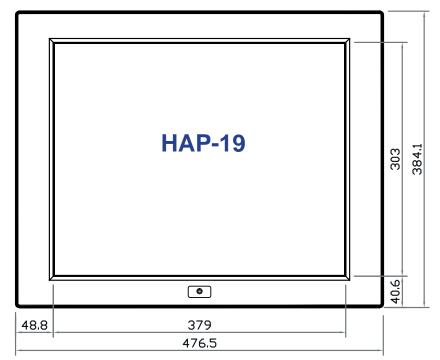
- An abundance of input connections that include HDMI, DVI-D, VGA, S-Video + BNC and audio
- On-chip Faroudja® DCDi Cinema processing
- Casing dimensions will be changed

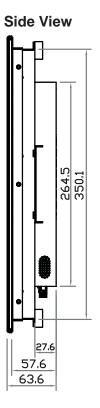


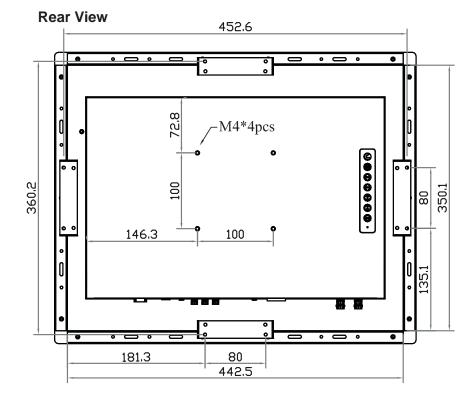
Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
HAP-19	476.5 x 63.6 x 384.1 mm	651 x 124 x 597 mm	7.7 kg	10.5 kg
	18.8 x 2.5 x 15.1 inch	25.6 x 4.9 x 23.5 inch	16.9 lbs	23.1 lbs

< 1.2 > Dimension - HAP-19

Front View

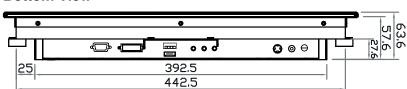






UNIT : mm 1mm = 0.03937 inch

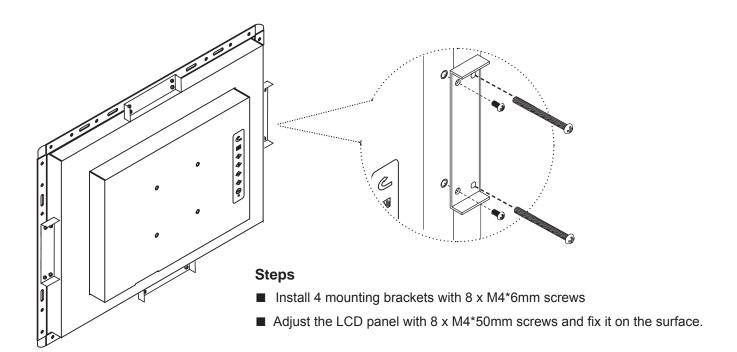
Bottom View



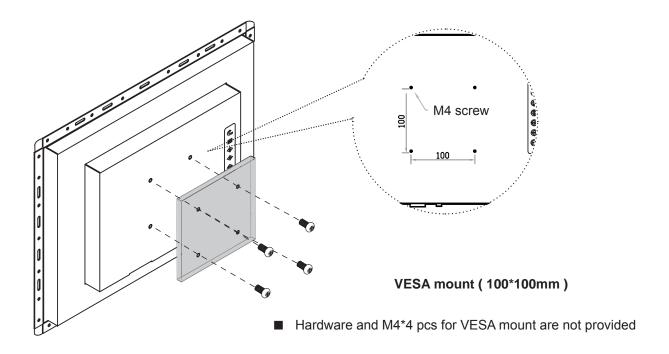
< 1.3 > Panel Mount Installation - HAP-19 19" High Brightness LCD Display



Hardware set part no. UV-BK#2



< 1.3 > VESA mount Installation - HAP-19

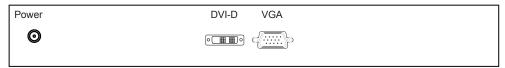


< 2.1 > Package Content - HOP-19 19" High Brightness LCD Display

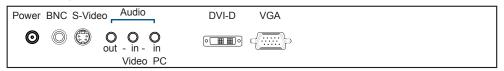


19" High Brightness LCD display X 1 6ft VGA cable X 1 Power adapter X 1 Power cord X1

Basic I/O



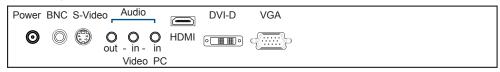
AV2.2D upgrade I/O



AV2.2H upgrade I/O

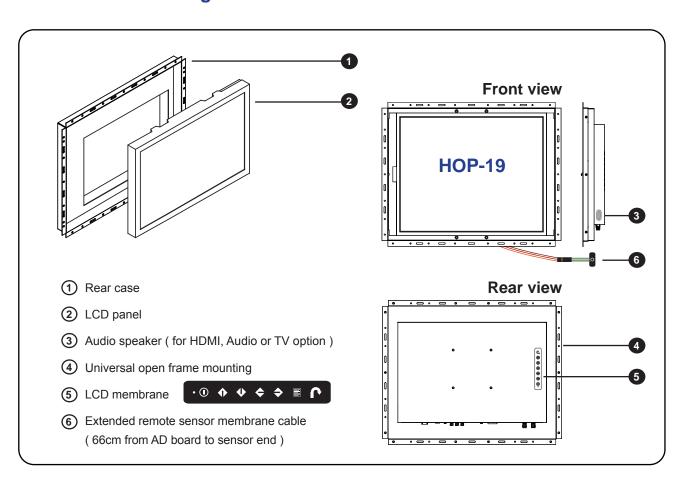


AV3.0 upgrade I/O with advanced features



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

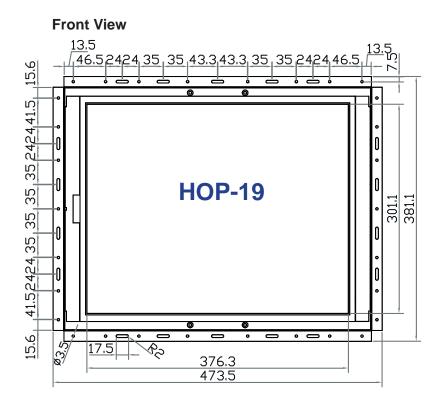
< 2.2 > Structure Diagram - HOP-19

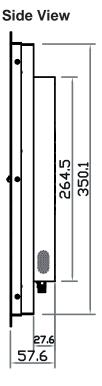


Model	Product Dimension	Packing Dimension	Net	Gross
	(W x D x H)	(W x D x H)	Weight	Weight
HOP-19	473.5 x 57.6 x 381.1 mm	651 x 124 x 597 mm	5.7 kg	8.5 kg
	18.6 x 2.3 x 15 inch	25.6 x 4.9 x 23.5 inch	12.5 lbs	18.7 lbs

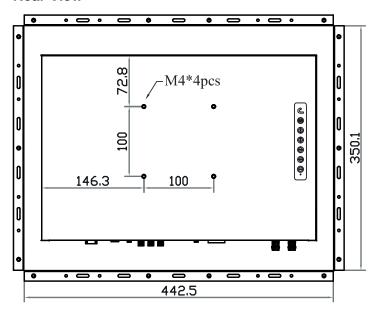
< 2.2 > Dimension - HOP-19

19" High Brightness LCD Display



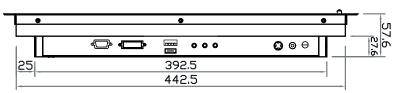


Rear View



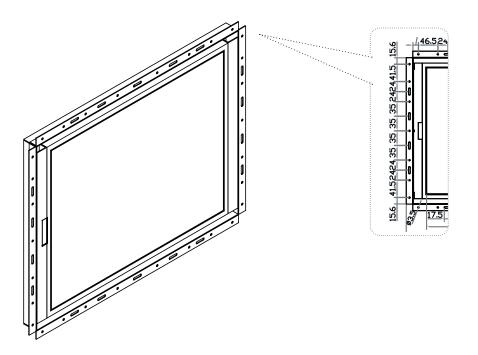
UNIT : mm 1mm = 0.03937 inch

Bottom View

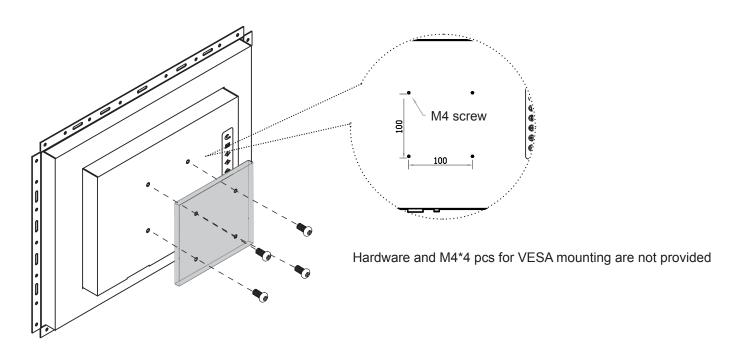


< 2.3 > Installation - HOP-19

(I) Universal mount



(II) VESA mount (100*100mm)



< 3.1 > Product Specifications

19" High Brightness LCD Display

Mechanical		HAP-19	HOP-19	
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	ass -	
LCD	Panel Size (diagonal)	19-i	inch 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)	0.294		
	Display Area (mm)	376.32H x 301.06V		
	Surface treatment	Haze 25%, Hard-coating		
	Surface hardness	3H		
	Backlight Type		LED	
	MTBF (hrs)	30,000		
Video		I		
Video Connectivity	Analog	VGA	Analog 0.7Vp-p	
,				
Power	Power Supply		Auto-sensing 100 to 240VAC,	
	ι όνιοι σαρριγ	Range	50/60Hz	
	Power Consumption	Screen display ON	35W or less	
		Power saving mode	4W or less	
		5 055	43.47	

		00/001 IE
Power Consumption	Screen display ON	35W or less
	Power saving mode	4W or less
	Power button OFF	1W or less

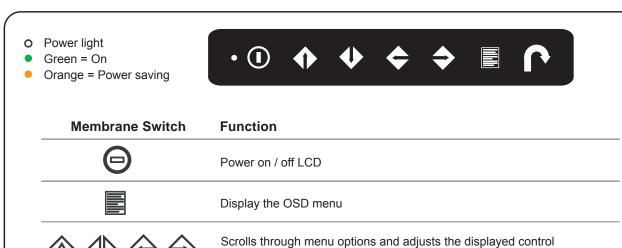
Regulatory	Safety	FCC & CE certified
	Environmental	RoHS2 & REACH compliant

Environmental Conditions	Operating	Temperature	0 to 55°C degree
		Humidity	20~90%, non-condensing
	Storage	Temperature	-5 to 60°C degree
		Humidity 5~90%, non-condensing	5~90%, non-condensing
		Shock	10G acceleration (11ms duration)
		Vibration	5~500Hz 1G RMS random

Physical		HAP-19	HOP-19
Specification	Product (WxDxH)	476.5 x 63.6 x 384.1 mm	473.5 x 57.6 x 381.1 mm
		18.8 x 2.5 x 15.1 inch	18.6 x 2.3 x 15 inch
	Packing (WxDxH)	651 x 124 x 597 mm	651 x 124 x 597 mm
		25.6 x 4.9 x 23.5 inch	25.6 x 4.9 x 23.5 inch
	Net Weight	7.7 kgs / 16.9 lbs	5.7 kgs / 12.5 lbs
	Gross Weight	10.5 kgs / 23.1 lbs	8.5 kgs / 18.7 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) 19" High Brightness LCD Display

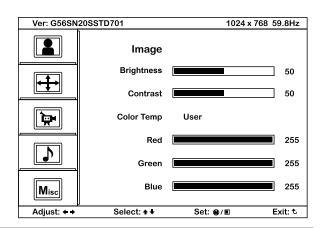




Exit the OSD screen

Toggle analog, digital & video connection (DVI-D and video options only)

(To auto adjustment by pressing the button \diamondsuit for 5 seconds)



OSD Configuration Page



Image:

for the brightness, contrast, color temp, red, green, and blue



Geometry:

for the auto adjust, H position, V position, phase and clock



Video:

for the colour, tint, sharpness, noise reduction, DCDi and TV Setup



Audio:

for volume, bass, treble, balance, AVL and mute



Misc:

for the language, OSD position, graphic mode, ratio, reset and timer

< Part 4 > Options

< 4.1 > Option Table

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



*** About SDI

- (1) The AD board will be upgraded to version 3.0, and this comes standard with HDMI, DVI-D, VGA, S-Video, BNC, audio inputs and RC-1 remote controller.
- * About HDMI and DVI-D
- (1) For AV2.2 upgrade, either HDMI or DVI-D is provided.
- (2) If the user needs HDMI and DVI-D, AV3.0 upgrade can be applied.
- * Remote Controller
- (1) AV2.2 upgrade comes with RC-1 remote controller.
- (2) TV option comes with RC-2 remote controller.

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

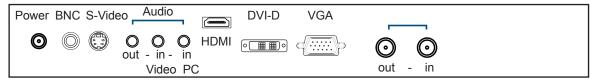
19" High Brightness LCD Display



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

Designed for use with UltraView Full HD 1080p and ultra high resolution 1920 x 1200 LCD displays, Austin Hughes provides a SDI input module without using additional space or power and it comes standard with a 2-year warranty.

SDI



*** For **SDI** option, the AD board will be upgraded to AV3.0, and this comes standard with HDMI, DVI-D, VGA, S-Video, BNC, audio inputs and RC-1 remote controller (please refer to P.17). Casing dimensions will be changed.

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

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

Compatible Video Format	3G-SDI	1080p 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

MCS (Multi-display Control)

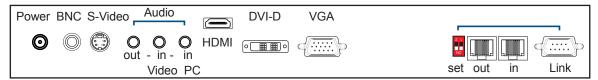


More control is always good. Especially when it is necessary and easy. Austin Hughes provides MCS solution to control the **OSD** of various UltraView LCD display up to 64 units.

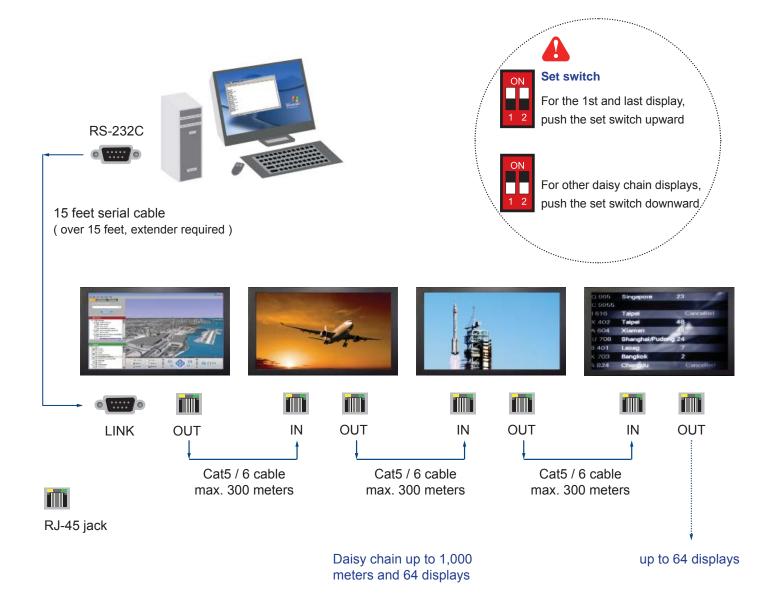
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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.

MCS



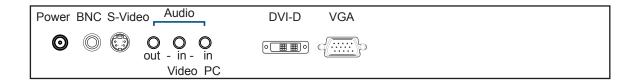
*** Please download the protocol of MCS control at : http://www.austin-hughes.com/support/usermanual/ultraview/UM-UV-MCS.pdf



< 4.4 > Options:

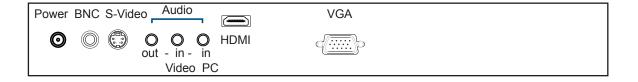
AV2.2D Upgrade Options

- 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)



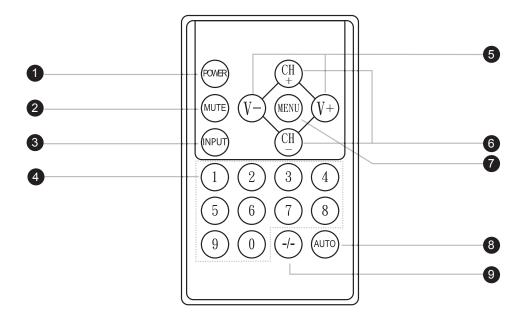
AV2.2H Upgrade Options

- **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)



AV2.2 upgrade option comes with RC-1 remote controller x 1.

How to Use RC-1 Remote Controller

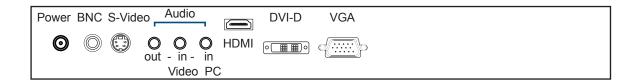


1	POWER	Switches on or off the TV
2	MUTE	Turn on or off the speaker
3	INPUT	Switch to signal input mode
4	0- 9	Select channels. For channel numbers 10 and above, enter the second digit within two seconds.
5	V + / -	Increase or decrease the speaker volume
6	CH + / -	Increase or decrease the channel number
7	MENU	Display the menu on the screen or go to the previous menu
8	AUTO	For auto searching
9	-1-	For setting one or two input digit

< 4.5 > AV3.0 Upgrade Options :

19" High Brightness LCD Display

- **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)



Casing dimensions will be changed.

< 4.6 > Options : Touchscreen & driver

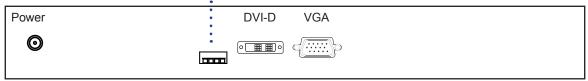


H19" USB Touchscreen Specification

Model	TPC-19 Multi-touch	TRB e-Resistive	TCB e-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	Oleses	
Bottom Layer	Film	ITO Glass	Glass	
Thickness	2.2 mm 3.2 ± 0.2 mm 2.8 mm :		2.8 mm ± 10%	
Connector	USB Type A	USB Type A	USB Type A	
Compatibility	Windows 7	Windows 7 / XP / Vista, Linux		

- Dimension will be changed if Multi-touch required
- USB touchscreen package includes 1 x 6ft USB cable, quick reference guideline and CD disc
- For detailed information, please refer to the attached CD disc
- As the touchscreen unit is not made of toughened glass, please handle it carefully

USB Touchscreen





TPC-19 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.austin-hughes.com/downloads/UVDL/driver.html
- Step 2. Double click the Setup.exe
- Step 3. Follow the installation instruction to finish the setup
- Step 4. After installation, run the TouchKit program & the "4 point calibration"



Please do the initial calibration after the first setup



< 4.7 > Options : DC Power



Model	24V	48V	110 ~ 125V
Input rating			
Input voltage:	24-Volt	48-Volt	110-Volt
Input range:	18 ~ 36V	36 ~ 75V	66 ~ 160V
Input current			
- No load	50 mA	50 mA	40 mA
- Full load	4880 mA	2442 mA	993 mA
Output rating			
Output voltage:	12-Volt	12-Volt	12-Volt
Output current:	4.16A	4.16A	8.4A
Efficiency	85%	85%	92%

< 4.8 > Options : MIL-type or Lockable Connector

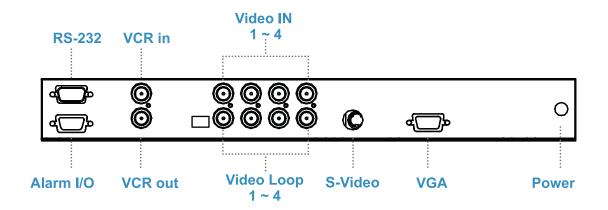
	Input	Part no).	MIL Standard
MIL - type Connector	DC Power *** (Male)	MS3470W8-33P		MIL - DTL - 26482
	VGA *** (Male)	MS3470W14-15P		MIL - DTL - 26482

^{***} 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.

< 4.9 > Options : Quad Display

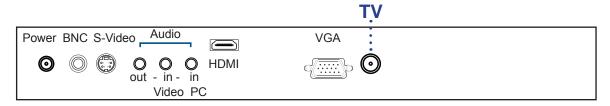


QD Specification

	Item	Description		
Model Number		QD (NTSC)	QD (PAL)	
Number of Colo	r	16.7 M	16.7 M	
Imaging System	1	NTSC	PAL	
Resolution		1024 x 525	1024 x 625	
Refresh Rate		60	50	
Video Input	Camera Input	1.0 Vpp, 75	Ohm x 4	
video iriput	VCR Input	1.0 Vpp, 75	Ohm x 1	
	Live Monitor	1.0 Vpp, 75	Ohm x 1	
Video Output	Loop Through Out	1.0 Vpp, 75	Ohm x 4	
	VCR Output	1.0 Vpp, 75	Ohm x 1	
Auto Gain Cont	rol	Yes		
Time / Date		Yes		
On Screen Disp	olay	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		

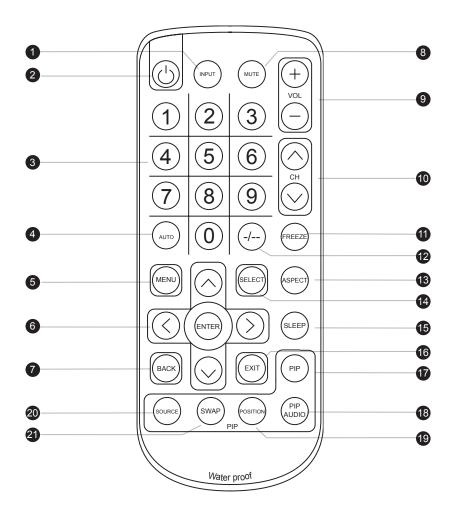
^{***} For QD option, casing dimensions will be changed.

< 4.10 > Options : TV (Analog)



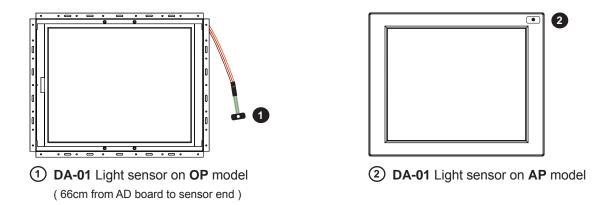
*** For TV option:

- (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.



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
<u> 16</u>	EXIT	Exit the menu or cancel
	PIP functions	
17	PIP	Picture in picture
18	PIP AUDIO	To set the audio of in PIP mode
19	POSITION	To set the screen position in PIP mode
20	SOURCE	PIP Source
21	SWAP	Swap screen in PIP mode

< 4.11 > 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



Options: Switch Dimming

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



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