

User Manual 31.5" FHD 1920 x 1080 LCD



AP-F32 / HAP-F32 Aluminum front bezel





DP-F32 / HDP-F32 Aluminum Front Panel





Designed and manufactured by Austin Hughes

Legal Information

First English printing, August 2020

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.
 - $\hfill\square$ Repair or attempted repair by anyone not authorized by us.
 - □ Any damage of the product due to shipment.
 - $\hfill\square$ Removal or installation of the product.
 - $\hfill\square$ Causes external to the product, such as electric power fluctuation or failure.
 - $\hfill\square$ Use of supplies or parts not meeting our specifications.
 - \Box Normal wear and tear.
 - \Box 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

👍 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.

AP-F32 / NAP-F32 HAP-F32 / HNAP-F32



31.5" FHD LCD display X 16ft VGA cable X 1Power cord X 1Remote controller X 1

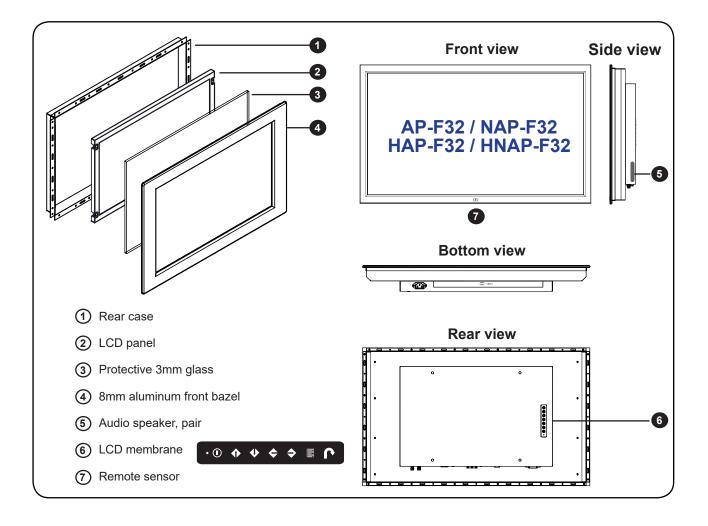
Basic I/O

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Upgrade I/O with advanced features

Audio	[<u></u>]		VGA	BNC	Power
Out in	DP	HDMI		\bigcirc	

< 1.2 > Structure Diagram



Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
AP-F32 HAP-F32	780 x 88.2 x 474 mm 30.7 x 3.5 x 18.7 inch	910 x 195 x 580 mm	20.9 kg 46 lb	25.7 kg 56.5 lb
NAP-F32 HNAP-F32		35.8 x 7.7 x 22.8 inch	23.9 kg 52.6 lb	28.7 kg 63.1 lb

< 1.2 > Dimension

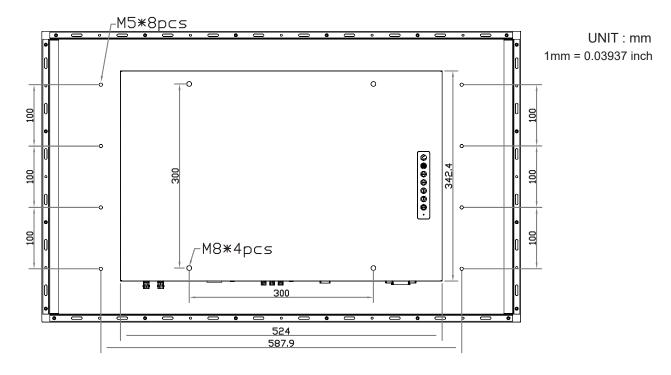
31.5" FHD LCD Display

Front View

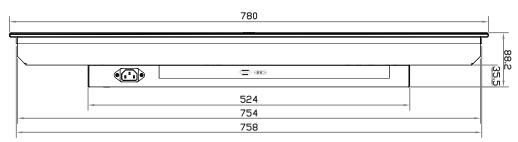
Side View



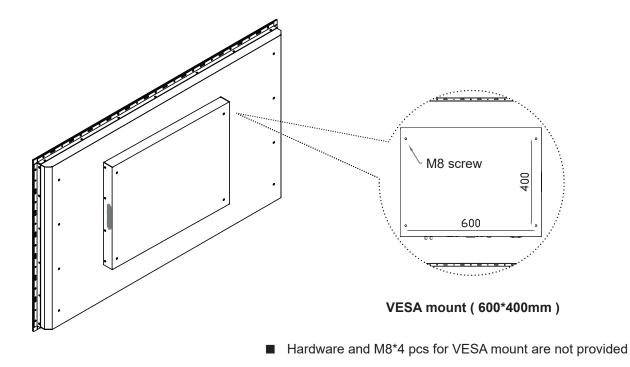
Rear View



Bottom View



< 1.3 > VESA Installation



31.5" FHD LCD Display

< Part 2 > DP-F32 / HDP-F32 < 2.1 > Package Content

DP-F32 / HDP-F32



31.5" FHD LCD display X 1 6ft VGA cable X 1 Power cord X 1 Remote controller X 1

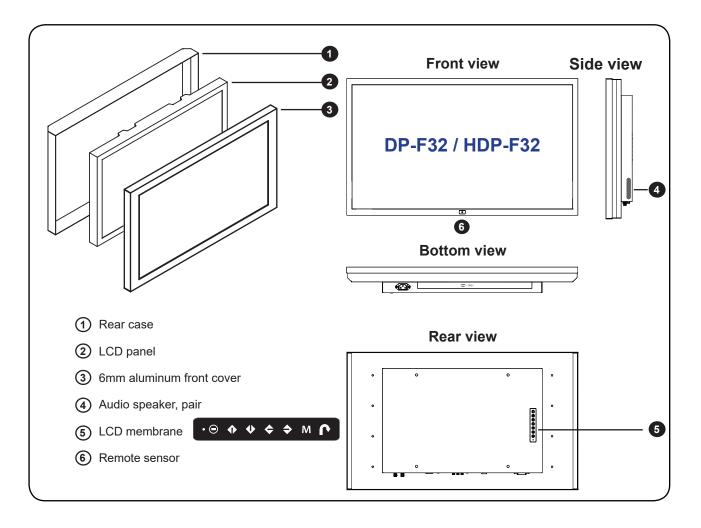
Basic I/O

DVI-D	VGA	Power
■■		

Upgrade I/O with advanced features

Audio	C		VGA	BNC	Power
Out in	DP	HDMI	Q	\odot	

< 2.2 > Structure Diagram



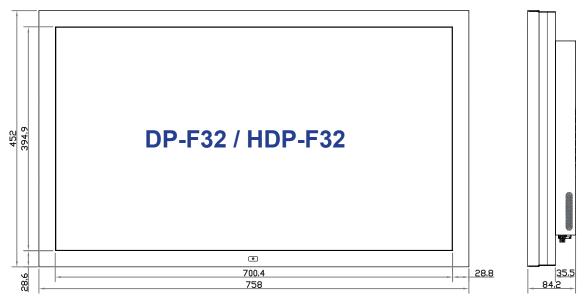
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
DP-F32	758 x 84.2 x 452 mm	910 x 195 x 580 mm	18.7 kg	23.5 kg
HDP-F32	29.8 x 3.3 x 17.8 inch	35.8 x 7.7 x 22.8 inch	41.1 lb	51.7 lb

< 2.2 > Dimension

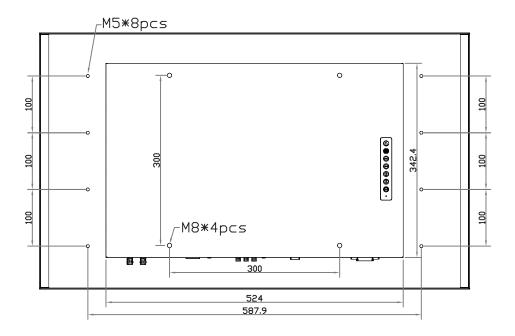
31.5" FHD LCD Display

Front View

Side View

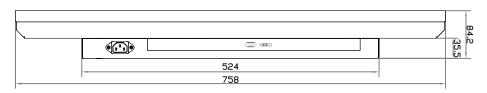


Rear View

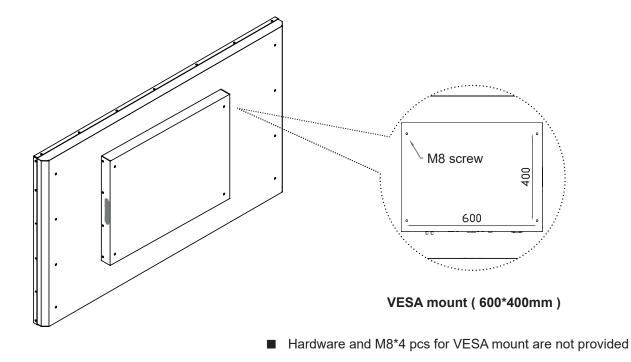


UNIT : mm 1mm = 0.03937 inch

Bottom View



< 2.3 > VESA Installation



< Part 3 > OP-F32 / HOP-F32 < 3.1 > Package Content

OP-F32 / HOP-F32



31.5" FHD LCD display X 16ft VGA cable X 1Power cord X 1Remote controller X 1

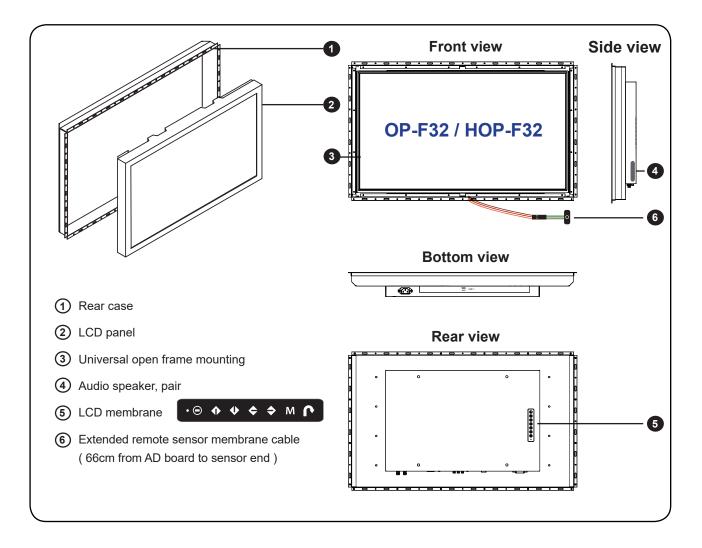
Basic I/O

DVI-D	VGA	Power
□ ■ ■ ○		

Upgrade I/O with advanced features

Audio	C		VGA	BNC	Power
Out in	DP	HDMI	Q	\odot	

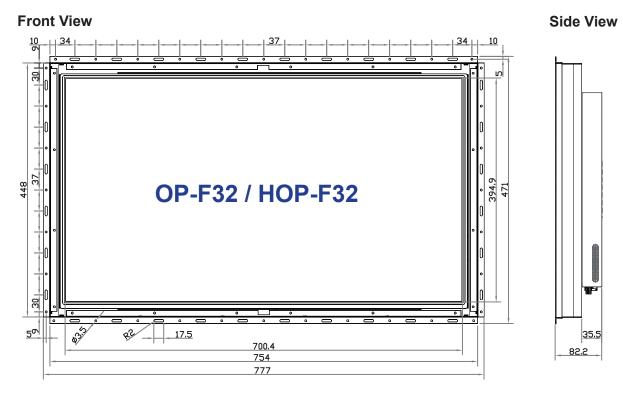
< 3.2 > Structure Diagram



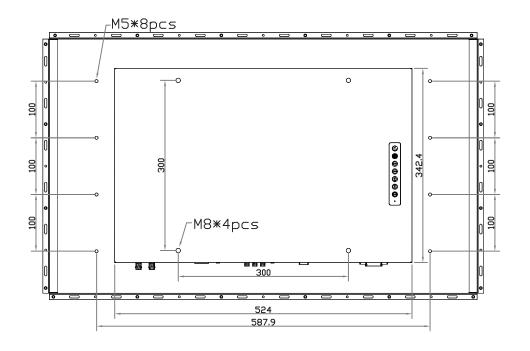
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
OP-F32	777 x 82.2 x 471 mm	910 x 195 x 580 mm	16.4 kg	21.2 kg
HOP-F32	30.6 x 3.2 x 18.5 inch	35.8 x 7.7 x 22.8 inch	36.1 lb	46.6 lb

< 3.2 > Dimension

31.5" FHD LCD Display

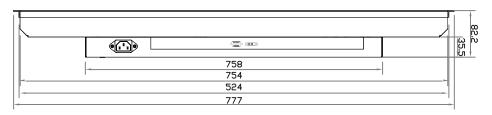


Rear View



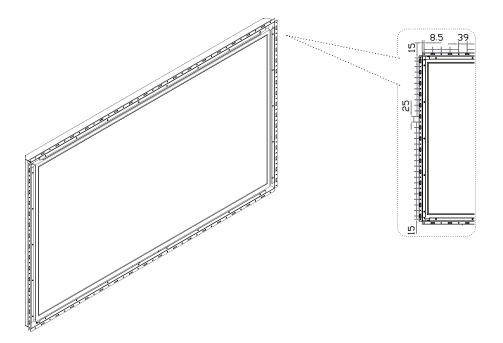
UNIT : mm 1mm = 0.03937 inch

Bottom View

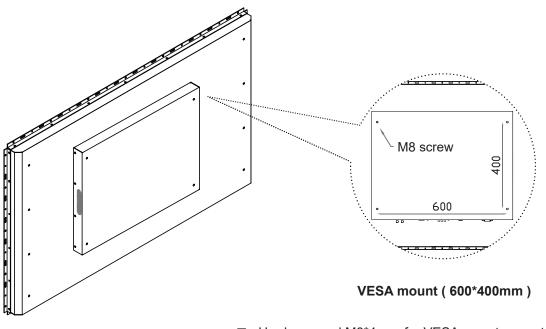


< 3.3 > Installation

(I) Universal mount



(II) VESA mount (600*400mm)



Hardware and M8*4 pcs for VESA mount are not provided

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< Part 4 >

< 4.1 > Product Specifications

Mechanical Design	AP-F32 / HAP-F32	NAP-F32 / HNAP-F32	DP-F32 / HDP-F32	OP-F32 / HOP-F32
Protection	6mm front bezel	NEMA 4 / IP65	front cover	open frame
Front Panel	Black, RAL 9005 -			-
Rear Casing	Black, RAL 9005			
VESA mount	600 x 400 mm			
Universal mount	-		-	ready
Overhead tilted wall-mount	option		option	-
Desktop stnad	option		option	-

LCD Panel	Standard	Sunlight Readable	
Brightness(cd/m²)	300	1500	
Contrast Ratio (typ.)	1000 : 1	3000 : 1	
MTBF (hrs)	30,000	50,000	
Panel Size (diagonal)	31.5-inch Widesc	reen TFT color LCD	
Native resolution	1920 x 1080		
Colors	1.07 Billion, 10-bit		
Viewing Angle(L/R/U/D)	89/89/89		
Response Time (ms)	20		
Dot pitch (mm)	0.181		
Display Area (mm)	698.4H x 392.85V		
Surface treatment	Anti-glare		
Surface hardness	3H		
Backlight Type	LED		

Video	
VGA	Analog 0.7Vp-p
DVI	DVI-D single link
Option	
HDMI	HDMI 1.4 / HDCP 1.4
Display port	DP 1.0 / HDCP 1.3
Composite(BNC)	NTSC & PAL

Audio Option	
Input	
Connector	3.5mm stereo jack 30kΩ / 750mV
Impedance / Power level	30kΩ / 750mV
Output	
Connector	3.5mm stereo jack 30kΩ / 2.8V
Resistance / Power level	30kΩ / 2.8V
Speaker: Dual Stereo	
Dual Stereo	10W 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. 56W	Max. 160W	
Power saving mode	Max. 9W	Max. 9W	
Power button OFF	Max. 2W	Max. 2W	

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

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	

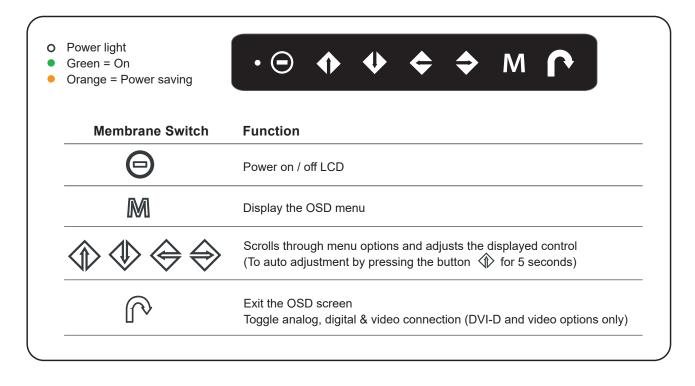
Physical Specification	AP-F32 / HAP-F32	NAP-F32 / HNAP-F32	DP-F32 / HDP-F32	OP-F32 / HOP-F32
Product (W x D x H)		-		
mm	780 x 88	3.2 x 474	758 x 84.2 x 452	777 x 82.2 x 471
inch	30.7 x 3	.5 x 18.7	29.8 x 3.3 x 17.8	30.6 x 3.2 x 18.5
Packing (W x D x H)				
mm	910 x 19	95 x 580	910 x 195 x 580	910 x 195 x 580
inch	35.8 x 7	.7 x 22.8	35.8 x 7.7 x 22.8	35.8 x 7.7 x 22.8
Net Weight	20.9 kg / 46 lb	23.9 kg / 52.6 lb	18.7 kg / 41.4 lb	16.4 k g / 36.1 lb
Gross Weight	25.7 kg / 56.5 lb	28.7 kg / 63.1 lb	23.5 kg / 51.7 lb	21.2 kg / 46.6 lb
Chassis color	Dark			
Chassis materials	Aluminum			

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

Applicable Format			
DVI-D / VGA Input	PC Signal	1920 x 1080 x 60Hz	
	_	1360 x 768 x 60Hz	
		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	
HDMI Input	PC Signal	Same as VGA	
	HDMI 1.4 <u>1920 x 1080 x 50 / 60Hz (1080p)</u>		
		1920 x 1080 x 25 / 30Hz (1080i)	
		1280 x 720 x 50 / 60Hz (720p)	
		720 x 480 x 50 / 60Hz (576p / 480p)	
	Audio Signal	2ch Linear PCM	
Display port Input	PC Signal	1920 x 1080 x 60Hz	
		1600 x 1200 x 60Hz	
		1360 x 768 x 60Hz	
		1280 x 768 x 60 / 75Hz	
		1280 x 768 x 60Hz	
		1024 x 768 x 60 / 70 / 75Hz	
		800 x 600 x 60 / 72 / 75Hz	
		720 x 400 x 70Hz	
		640 x 480 x 60 / 72 / 75Hz	
	Audio Signal	2ch Linear PCM	

* 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)



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

		PICTURE	HDMI 1920x1080@60.0Hz
PICTURE	BRIGHTNESS		70 >
←	CONTRAST		50 >
POSITION	BLACK LEVEL		50 >
	ECO		STANDARD >
COLOR			
OSD SET			
RESET			
MISC	▲/ ▼ : UP / DOWN	≻:-/+</td <td>MENU : EXIT M52LW170DVI701IN</td>	MENU : EXIT M52LW170DVI701IN

- \	Р	OSITION	HDMI 1920x1080@60.0Hz
PICTURE	H-POSITION		70 >
←	V-POSITION		50 >
POSITION	CLOCK		50 >
	PHASE		50 >
COLOR	PICTURE SIZE		OFF >
OSD SET			
RESET			
MISC			
	▲/▼ : UP / DOWN	∢/ ▶ : - / +	MENU : EXIT M52LW170DVI701IN

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 SCREEEN / 4:3 / 5:4 / 16:10

< 4.2 > On-screen Display Operation (OSD)

3 Color

e: User / Warm / Cool / 5400k mode and Red / Green / Blue color balance
: Adjust the image from weak to sharp
: Adjust the screen hue value
: Adjust the saturation of the image color
: Control the dynamic brightness

31.5" FHD LCD Display

	COLOR	HDMI 1920x1080@60.0Hz
PICTURE	COLOR TEMPERATURE	WARM >
	SHARPNESS	<u> </u>
POSITION	HUE	<u> </u>
COLOR	SATURATION	50 >
OSD SET	DYNAMIC LUMINOUS CONTROL	OFF >
RESET		
MISC		
	▲/▼:UP / DOWN	

(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°

	osc) SET	HDMI 1920x1080@60.0Hz
PICTURE	LANGUAGE		
←₽	OSD H-POSITION		50 >
POSITION	OSD V-POSITION		50 >
	OSD TIME OUT		100 >
COLOR	OSD TRANSPARENCY		0 >
OSD SET	OSD ROTATION		OFF >
RESET			
MISC			
	▲/▼ : UP / DOWN	∢/ ▶ : - / +	MENU : EXIT M52LW170DVI701IN

5 Reset

Reset : Return the adjustment back to factory setting

		RESET	HDMI 1920x1080@60.0Hz
	IMAGE AUTO ADJUST		
←ţ→	COLOR AUTO ADJUST		
POSITION	RESET		
COLOR			
OSD SET			
RESET			
MISC			
	▲/ ▼ : UP / DOWN	▶: - / +</th <th>MENU : EXIT M52LW170DVI701IN</th>	MENU : EXIT M52LW170DVI701IN



Signal source : Select the signal source - DP / HDMI1 / HDMI2

Mute: Turn off the surrounding soundAudio in: Auto / Line in / DPVolume: Adjust the volume of soundSleep mode: Set the off time - 10 min / 20 min / 30 min /
50 min / 60 min / 120 min / 240 min

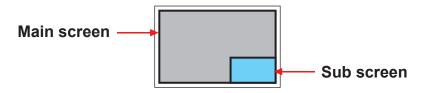
		MISC	HDMI 1920x1080@60.0H	z
	SIGNAL SOURCE		номі	>
←₽	MUTE		OFF	>
POSITION	AUDIO IN		AUTO	>
	VOLUME		70	>
COLOR	SLEEP MODE		OFF	>
OSD SET				
RESET				
MISC				
	▲/▼ : UP / DOWN	∢/ ▶ : - / +	MENU : EXI M52LW170DVI701I	

< 4.3 > How to Use Picture In Picture (PIP) / Picture By Picture (PBP)

< 4.3.1 > Picture in Picture (PIP)

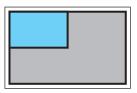
Mode

Display the Sub screen in the Main screen. OSD Menu \rightarrow MISC \rightarrow PIP Mode \rightarrow Large / Small / OFF



Position

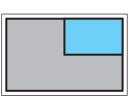
Adjust the position of the Sub screen (top left, bottom left, top right, bottom right) OSD Menu \rightarrow MISC \rightarrow PIP Position \rightarrow top left / top right / bottom left / bottom right



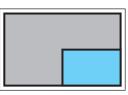
top left



bottom left



top right



bottom right

Size

Adjust the size of the Sub screen (Large / Small) OSD Menu \rightarrow MISC \rightarrow PIP Mode \rightarrow Large / Small

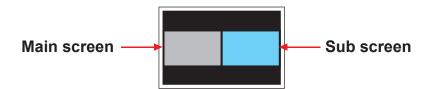
Size of Sub screen

LCD Monitor	Large Sub screen	Small Sub screen
1920 x 1200	552 x 414	480 x 360
1920 x 1080	552 x 414	480 x 360
1440 x 900	414 x 310	360 x 270
1366 x 768	392 x 294	340 x 254
1280 x 1024	368 x 276	320 x 240

< 4.3.2 > Picture By Picture (PBP)

Mode

Display the Sub screen next to the Main screen. OSD Menu \rightarrow MISC \rightarrow PIP Mode \rightarrow PBP



Size

LCD Monitor	Main / Sub screen
1920 x 1200	955 x 716
1920 x 1080	955 x 716
1440 x 900	715 x 536
1366 x 768	678 x 508
1280 x 1024	635 x 476

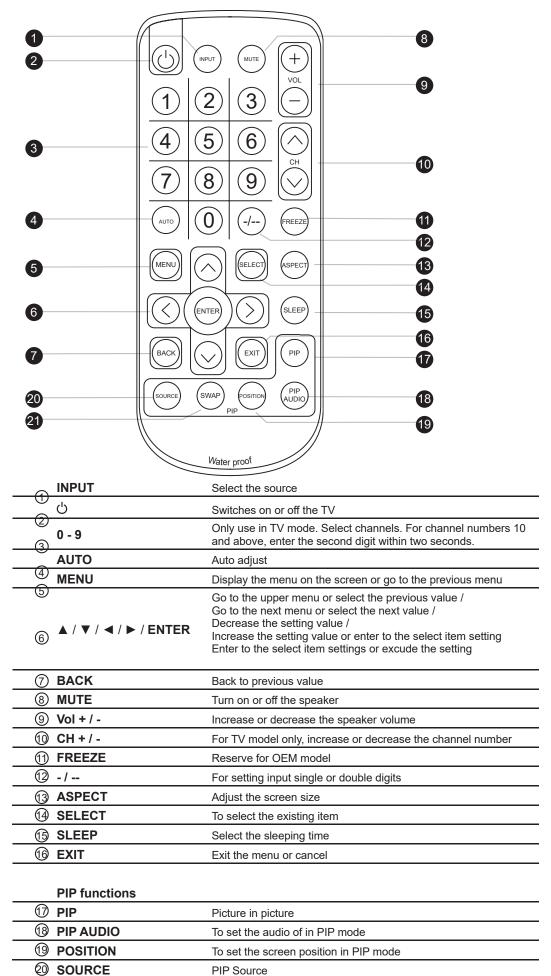
< 4.3.3 > PIP / PBP Source

To select an input signal for PIP / PBP Sub screen. OSD Menu \rightarrow MISC \rightarrow PIP Source \rightarrow HDMI / SDI

The PIP / PBP is operable in the following table :

Sub Main	HDMI	SDI
НОМІ	Х	0
SDI	0	х

< 4.4 > Remote Controller (RC-2)



< Part 5 > Options < 5.1 > Option Table

31.5" FHD LCD Display

Options	AP / NAP	HAP / HNAP	DP	HDP	ОР	НОР
SDI	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
MCS multi-screen control	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Touchscreen	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
DC Power	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
MIL-type / lockable connector	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Quad display	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark	\checkmark
Auto / switch dimming		\checkmark		\checkmark		\checkmark

< 5.2 > Options : 3G / HD / SD-SDI input



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

Designed for use with UltraView 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

	DVI-D	VGA	Power
out - in	○ <u>⊞</u> ⊞)○	Q	

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	@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
		720p	@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 / Asyn- chronized 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

< 5.3 > Options : MCS

31.5" FHD LCD Display

MCS (Multi-display Control)



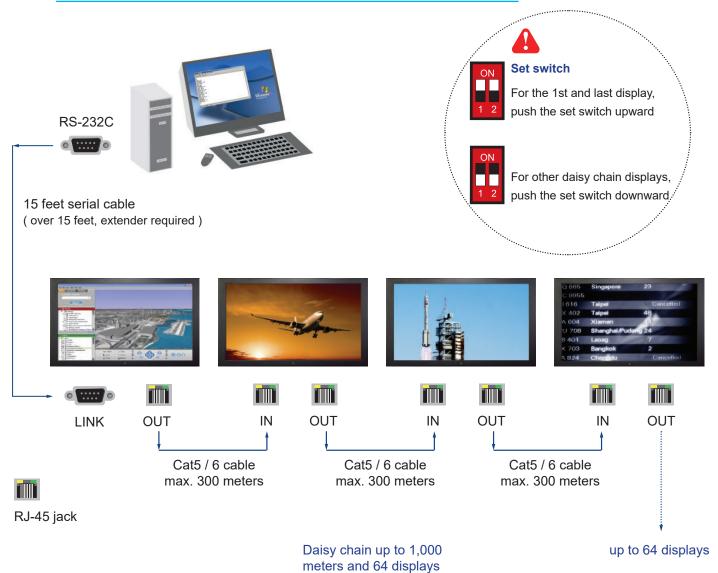
More control is always good. Especially when it is necessary and easy. Austin Hughes provides MCS solution to control the **OSD** of various UltraView LCD display up to 64 units.

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.



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



< 5.4 > Upgrade Options :

- HMDI
- (HDMI 1.4, CEA-861-E)
- Display Port
- Audio

(DP 1.0, HCDP 1.3) (Built-in Dual Stereo Speakers, 2W x 2)

(3.5mm audio jacks for audio in & out)

Audio			VGA	BNC	Power
Out in	DP	HDMI	q p	\bigcirc	

< 5.5 > Options : Touchscreen & driver



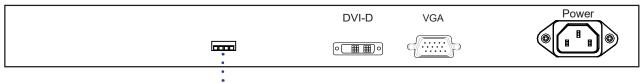
Model	TPC-10 Multi-touch	IR10 Multi-touch	
Technology	Projected Capacitive	Infrared	
Touch Point	10	10	
Input Type	Finger or Capacitive Stylus	Pen, Finger, Finger of gloved hand activation	
Resolution	4096 x 4096	-	
Touch Point Accuracy	± 2 mm	± 2 mm	
Response Speed	< 5 ms	≤ 15 ms	
Activation Force	< 5 g	No minimum touch activation force	
Surface Hardness 6H		-	
Light Transmission > 85%		-	
Haze	3% ↓	-	
Durability	50 million touches	Unlimited	
Top Layer	1.1 mm Glass	3 mm	
Bottom Layer	0.7 mm Sensor Glass	-	
Thickness	2 mm	-	
Connector	USB	A-type USB	
Compatibility Linux / Android / Windows / Mac		Windows 7 / Windows 10	

F31.5" USB Touchscreen Specification

Dimension will be changed if touchscreen 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

IR10 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.

< 5.6 > Options : DC Power



Model	24V	48V	125V
Input rating			
Input voltage:	24-Volt	48-Volt	110-Volt
Input range:	18 ~ 36V	36 ~ 75V	43 ~ 160V
Input current			
- No load	100 mA	50 mA	10 mA
- Full load	7386 mA	3611 mA	1540 mA
Output rating			
Output voltage:	24-Volt	24-Volt	24-Volt
Output current:	6.25A	6.25A	6.25A
Efficiency	88%	90%	89%

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

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

< 5.7 > Options : MIL-type or Lockable Connector 31.5" FHD LCD Display

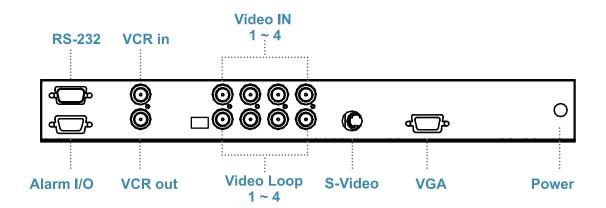
	Input	Part no.	MIL Standard
MIL - type Connector	DC Power *** (Male)	MS3470W8-33P	MIL - DTL - 26482
	VGA *** (Male)	MS3470W14-15P	MIL - DTL - 26482

*** 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.

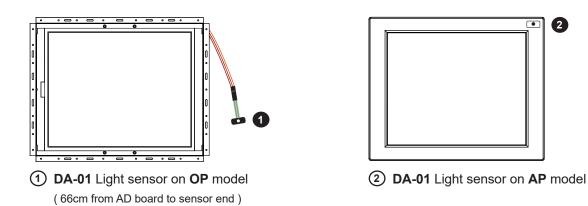
< 5.8 > Options : Quad Display



QD Specification

	Item	Description			
Model Number		QD (NTSC)	QD (PAL)		
Number of Color		16.7 M 16.7 M			
Imaging System		NTSC PAL			
Resolution		1024 x 525 1024 x 625			
Refresh Rate		60 50			
Video Input	Camera Input	1.0 Vpp, 75	5 Ohm x 4		
	VCR Input	1.0 Vpp, 75	5 Ohm x 1		
	Live Monitor	1.0 Vpp, 75	5 Ohm x 1		
Video Output	Loop Through Out	1.0 Vpp, 75	5 Ohm x 4		
	VCR Output	1.0 Vpp, 75	5 Ohm x 1		
Auto Gain Cont		Yes			
Time / Date					
On Screen Dis	play	Ye			
Camera Title		8 Charac			
	2 x Zoom On Playback	Ye			
Display Format	QUAD	Yes			
Display Format	FULL	Ye	es		
	SEQUENCY	Ye	2S		
Dwell Time		0 to 99 Sec Adjustable			
Alarm Inputs		Selectable NO/N	Selectable NO/NC Contacts x 4		
Relay Outputs NO/NC contacts x 1: 1A @DC24V Max.		: 1A @DC24V Max.			
Alarm Hold Time		1 Sec to I	1 Sec to Non-stop		
Built-in Buzzer		Yes			
Key Lock		Ye	Yes		

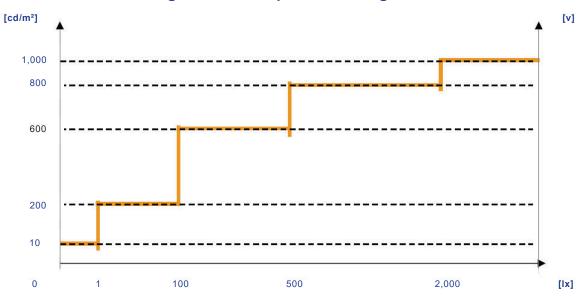
< 5.9 > Options for Sunlight Readable : Auto Dimming1.5" FHD LCD Display



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

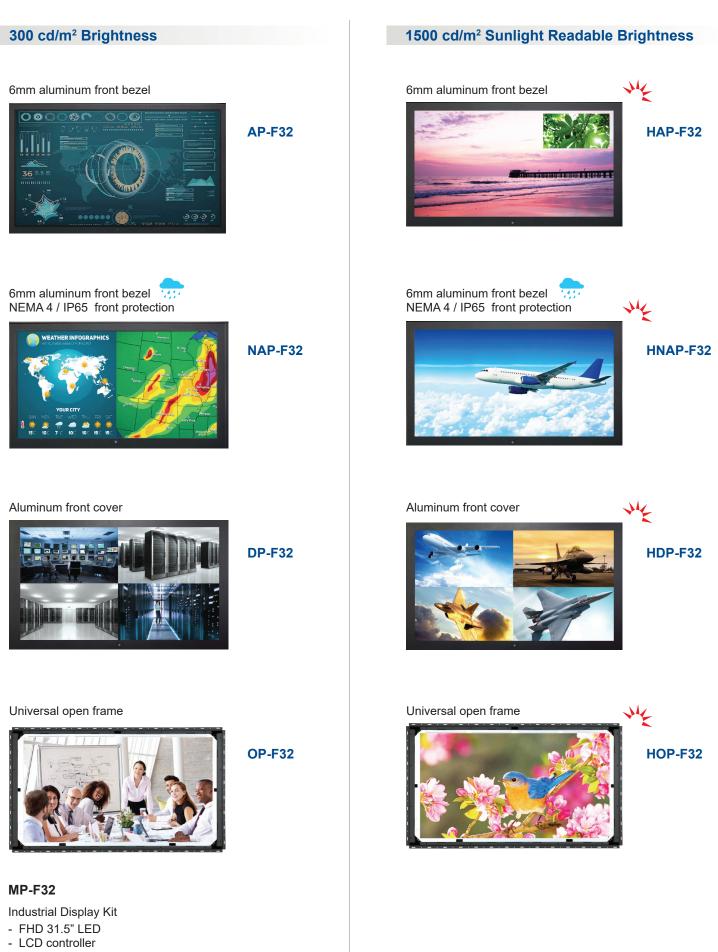
Options : Switch Dimming

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.



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< 6 > Ultraview F32 Family



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