

User Manual 21.5" FHD 1920 x 1080 LCD























Designed and manufactured by Austin Hughes

Legal Information

First English printing, July 2022

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.

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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:

Disconnect the power cord.

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:

Disconnect the power cord.

Spray a small amount of non-abrasive cleanser on a microfiber cloth.

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

Gently wipe the surface. Use as little pressure as possible.

Wait until your monitor is completely dry before plugging it in and powering it up.

AP-F21 / NAP-F21 / HAP-F21 / HNAP-F21

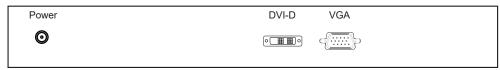


21.5" FHD LCD display X 1
6ft VGA cable X 1
Power adapter X 1
Power cord X 1

Mounting hardware X 1 pack

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

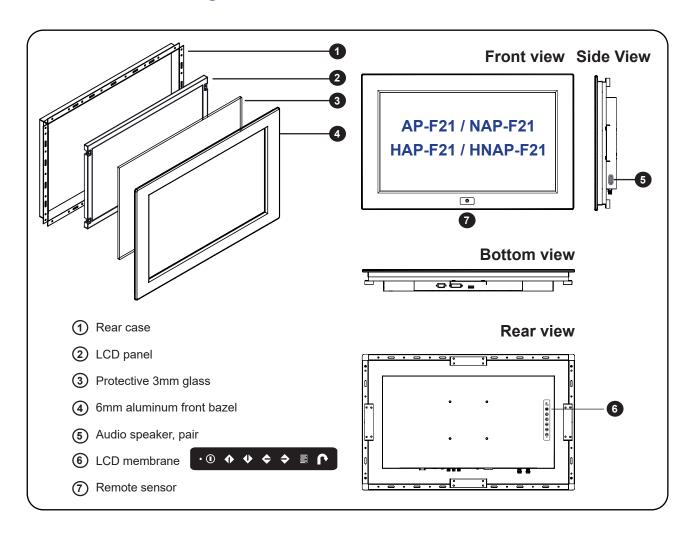
Basic I/O



Upgrade I/O with advanced features

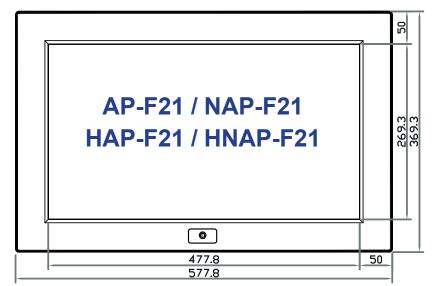


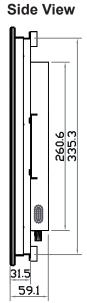
< 1.2 > Structure Diagram



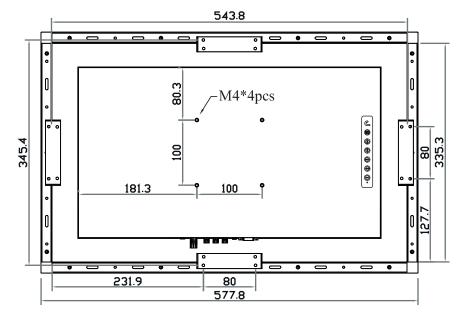
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
AP-F21 NAP-F21 HAP-F21	577.8 x 59.1 x 369.3 mm 22.7 x 2.3 x 14.5 inch	659 x 117 x 640 mm 25.9 x 4.6 x 25.2 inch	9 kg 19.8 lb	12.7 kg 27.9 lb
HNAP-F21	22.7 X 2.0 X 14.0 IIIOII	20.0 X 4.0 X 20.2 IIIOII	10.015	27.016

Front View



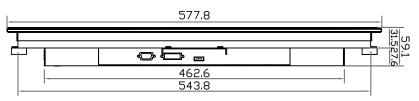


Rear View



UNIT : mm 1mm = 0.03937 inch

Bottom View

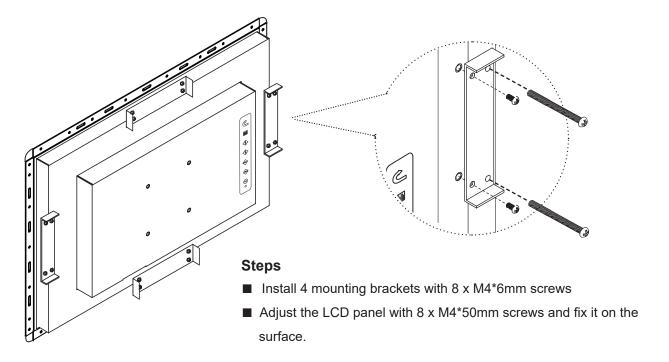


< 1.3 > Installation

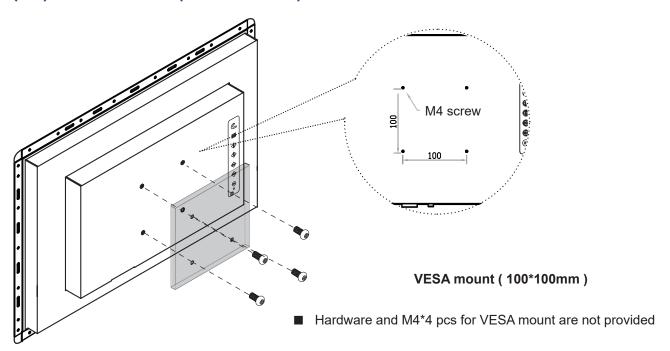
(I) Panel mount



Hardware set part no. UV-BK#2



(II) VESA mount (100*100mm)



< 2.1 > Package Content

DP-F21 / HDP-F21



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

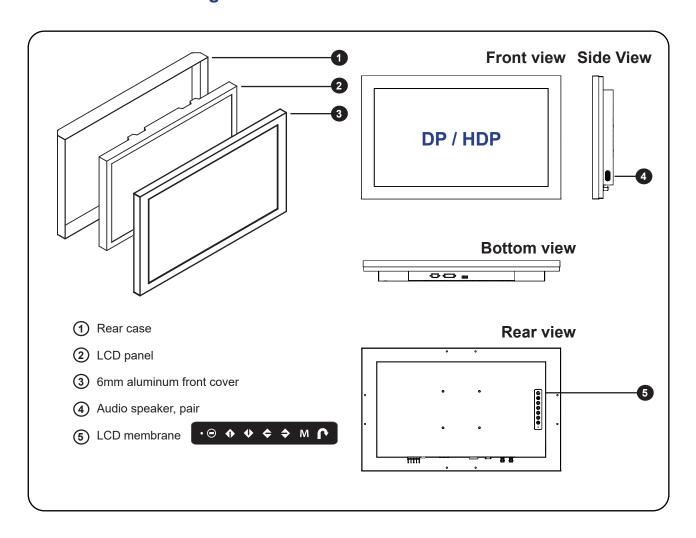
Basic I/O



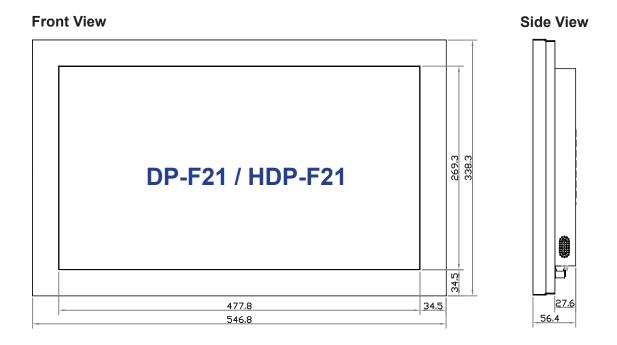
Upgrade I/O with advanced features

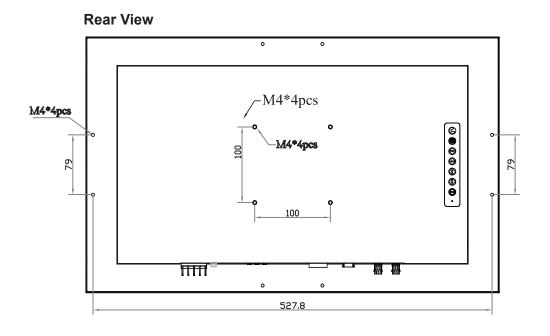


< 2.2 > Structure Diagram



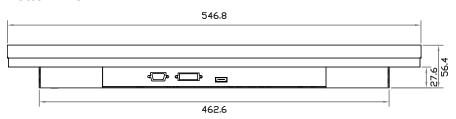
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
DP-F21 546.8 x 56.4 x 338.3 mm 21.5 x 2.2 x 14.5 inch		659 x 117 x 640 mm	7.9 kg	11.6 kg
		25.9 x 4.6 x 25.2 inch	17.4 lb	25.5 lb



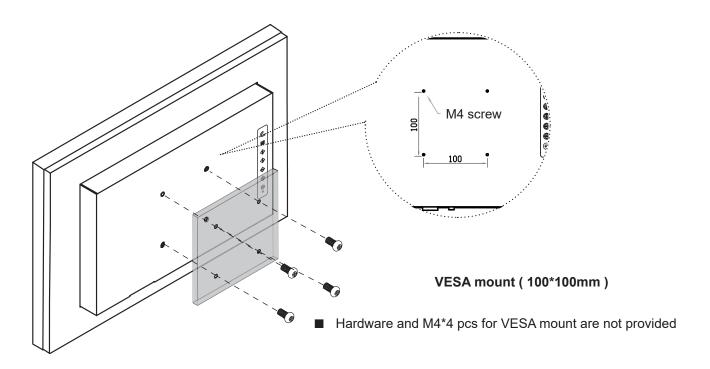


UNIT : mm 1mm = 0.03937 inch

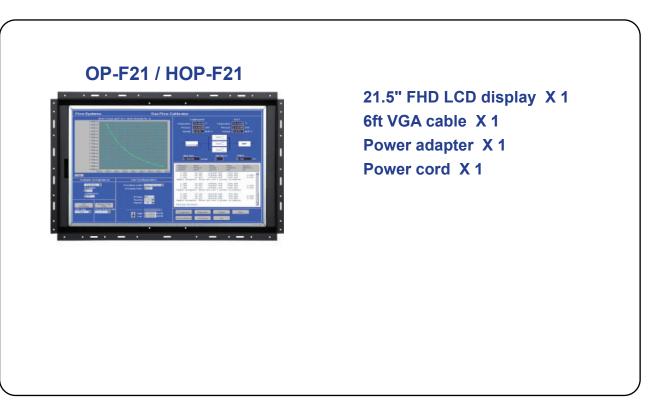
Bottom View



< 2.3 > VESA mount Installation



< 3.1 > Package Content



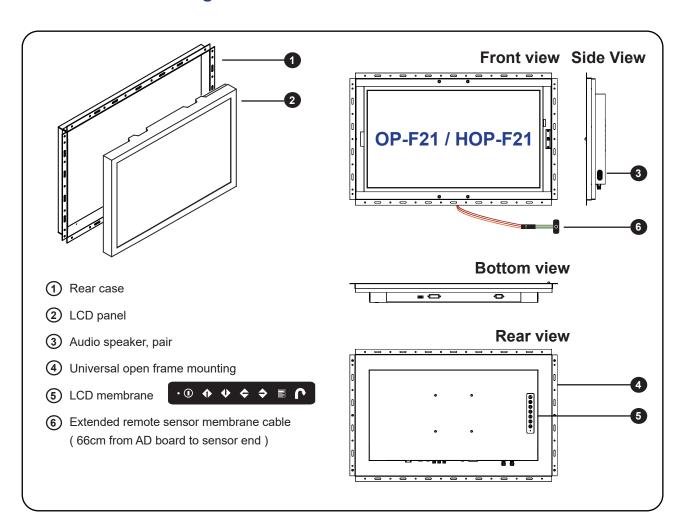
Basic I/O



Upgrade I/O with advanced features



< 3.2 > Structure Diagram



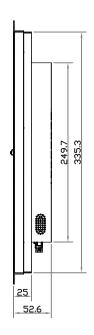
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
OP-F21	574.8 x 52.6 x 366.3 mm	659 x 117 x 640 mm	6.7 kg	10.4 kg
HOP-F21	22.6 x 2.1 x 14.4 inch	25.9 x 4.6 x 25.2 inch	14.7 lb	22.9 lb

Front View

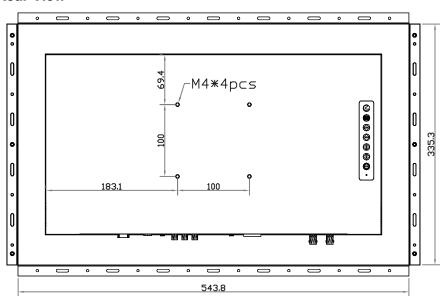
OP-F21 / HOP-F21

476.6
574.8

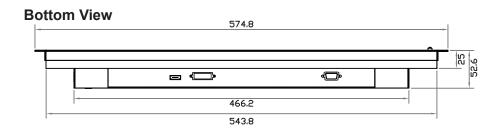
Side View



Rear View

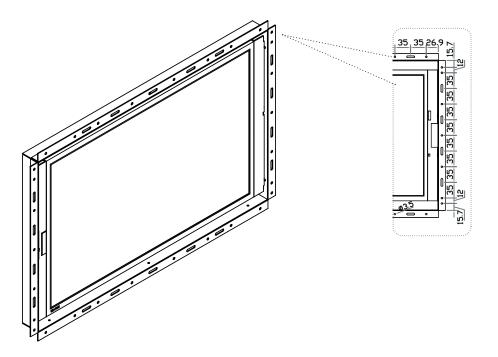


UNIT : mm 1mm = 0.03937 inch

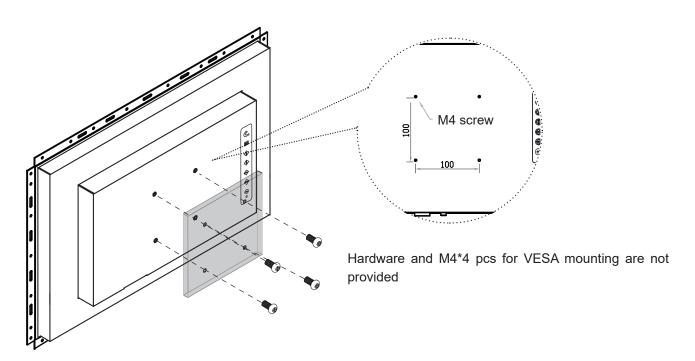


< 3.3 > Installation

(I) Universal mount



(II) VESA mount (100*100mm)



Intentionally Left Blank

< Part 4 >

< 4.1 > Product Specifications

Mechanical Design	AP-F21 / HAP-F21	NAP-F21 / HNAP-F21	DP-F21 / HDP-F21	OP-F21 / HOP-F21
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	-		-	ready
Desktop stnad	option		option	-
Panel mount	bundled		-	-

LCD Panel	Standard	Sunlight Readable	
Brightness (cd/m ²)	250	1000∜€	
Contrast Ratio (typ.)	1000 : 1	5000 : 1	
MTBF (hrs)	30,000	50,000	
Panel Size (diagonal)	21.5-inch Widescre	een TFT color LCD	
Native resolution	1920 >	(1080	
Colors	16.7 M		
Viewing Angle (L/R/U/D)	85/85/80/80		
Response Time (ms)	5		
Dot pitch (mm)	0.248		
Display Area (mm)	476.64H x 268.11V		
Surface treatment	Haze 25%, Hard-coating		
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	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. 28W		Max. 32W	
Power saving mode	Max. 2W		Max. 2W	
Power button OFF	Max. 1W		Max. 1W	

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

< 4.1 > Product Specifications

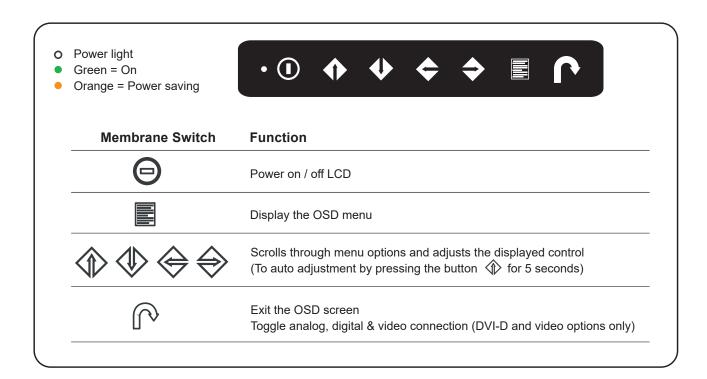
Environmental Conditions				
Operating	Temperature	0 to 55°C degree		
	Humidity	10~90%, non-condensing		
	Altitude	16,000 ft		
Storage /	Temperature	-20 to 60°C degree		
Non-operating	Humidity	5~90%, non-condensing		
	Altitude	40,000 ft		
	Shock	10G acceleration (11ms duration)		
	Vibration	10~300Hz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

Physical Specification	AP-F21 /	NAP-F21 /	DP-F21 /	OP-F21 /
	HAP-F21	HNAP-F21	HDP-F21	HOP-F21
Product (WxDxH)				
mm	577.8 x 59	0.1 x 369.3	546.8 x 56.4 x 338.3	574.8 x 52.6 x 366.3
inch	22.7 x 2	.3 x 14.5	21.5 x 2.2 x 13.3	22.6 x 2.1 x 14.4
Packing (WxDxH)				
mm	659 x 11	17 x 640	659 x 117 x 640	659 x 117 x 640
inch	25.9 x 4.	.6 x 25.2	25.9 x 4.6 x 25.2	25.9 x 4.6 x 25.2
Net Weight	9 kg / 19.8 lb	9 kg / 19.8 lb	7.9 kg / 17.4 lb	6.7 kg / 14.7 lb
Gross Weight	12.7 kg / 27.9 lb	12.7 kg / 27.9 lb	11.6 kg / 25.5 lb	10.4 kg / 22.9 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	1920 x 1080 x 50 / 60Hz (1080p)		
		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		

< 4.2 > On-screen Display Operation (OSD)



1 Picture

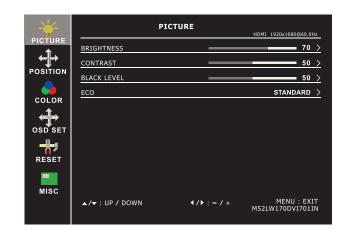
Brightness: Adjust the screen brightness

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

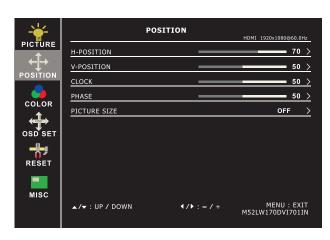


2 Position

H-Position : To adjust the horizontal position of the videoV-Position : To adjust the vertical position of the videoClock : To auto adjust H. Size of the screen

Phase : To fine tune the screen.

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



21.5" FHD LCD Display

(3) Color

Color temperature: User / Warm / Cool / 5400k mode and

Red / Green / Blue color balance

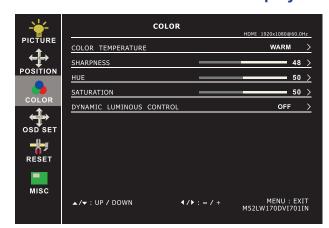
Sharpness : Adjust the image from weak to sharp

Hue : Adjust the screen hue value

Saturation : Adjust the saturation of the image color

Dynamic

luminous control : Control the dynamic brightness



4 OSD Set

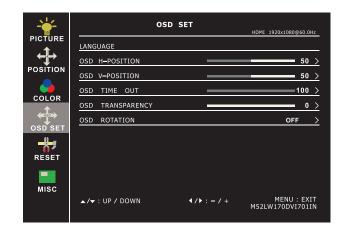
Language : Select the language in which the OSD menu is

displayed - English

OSD H-Position : Align the screen image left or right
OSD V-Position : Align the screen image up or down

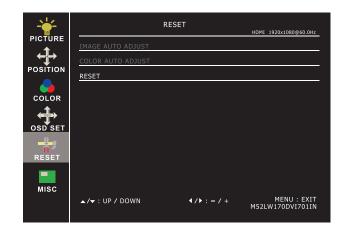
OSD time out : Adjust the screen timeout
OSD transparency : Adjust the screen transparency

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

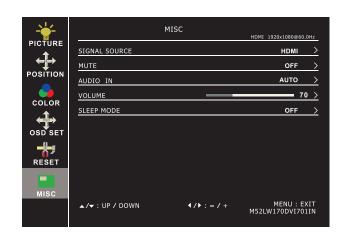
Mute : Turn off the surrounding sound

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 5 > Options

< 5.1 > Option Table

Options	AP / NAP	HAP / HNAP	DP	HDP	OP	НОР
SDI ***	✓	✓	✓	✓	✓	✓
S-Video * + Composite (BNC)	√	✓	√	/	✓	/
Audio	\checkmark	\checkmark	/	/	/	\checkmark
Touchscreen	\checkmark	\checkmark	\checkmark	/	/	\checkmark
MCS multi-display control	/	/	\checkmark	/	/	\checkmark
DC Power	/	✓	/	/	/	\checkmark
MIL-type / lockable connector	/	✓		/	/	/
Quad display	/	✓	/	✓	/	/
Auto / switch dimming		✓		/		\checkmark



*** About SDI

The AD board comes standard with HDMI, VGA, S-Video, BNC, audio inputs and RC-2 remote controller.

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

21.5" FHD 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 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

Power	Audio	VGA	
0	O O HDMI out in		
	PC	out - in	

*** For **SDI** option, the AD board comes standard with HDMI, VGA, S-Video, BNC, audio inputs and RC-2 remote controller (please refer to P.20)

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

MCS (Multi-display Control)

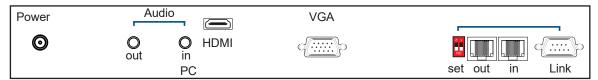


More control is always good. Especially when it is necessary and easy. Austin Hughes provides MCS solution to control the **OSD** of various UltraView LCD display up to 64 units.

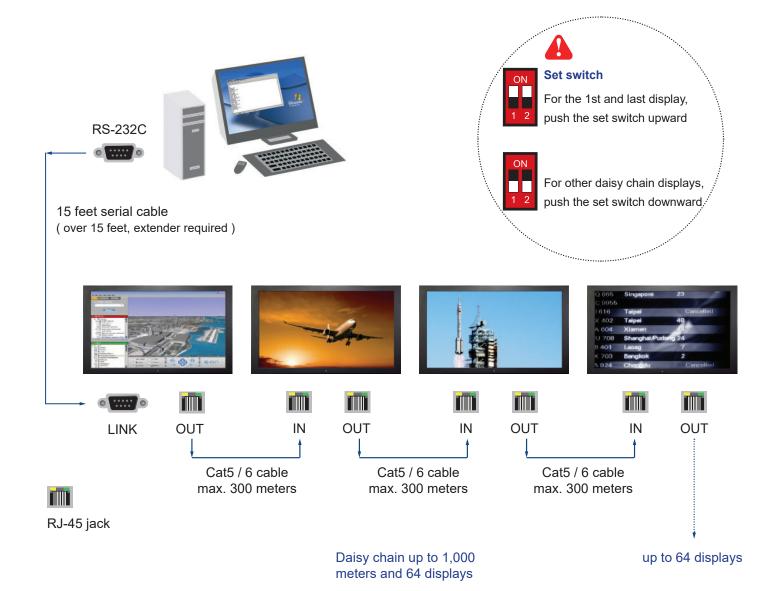
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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



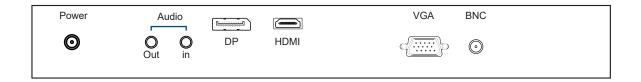
*** Please download the protocol of MCS control at : http://www.austin-hughes.com/support/usermanual/ultraview/UM-UV-MCS.pdf



< 5.4 > Upgrade Options :

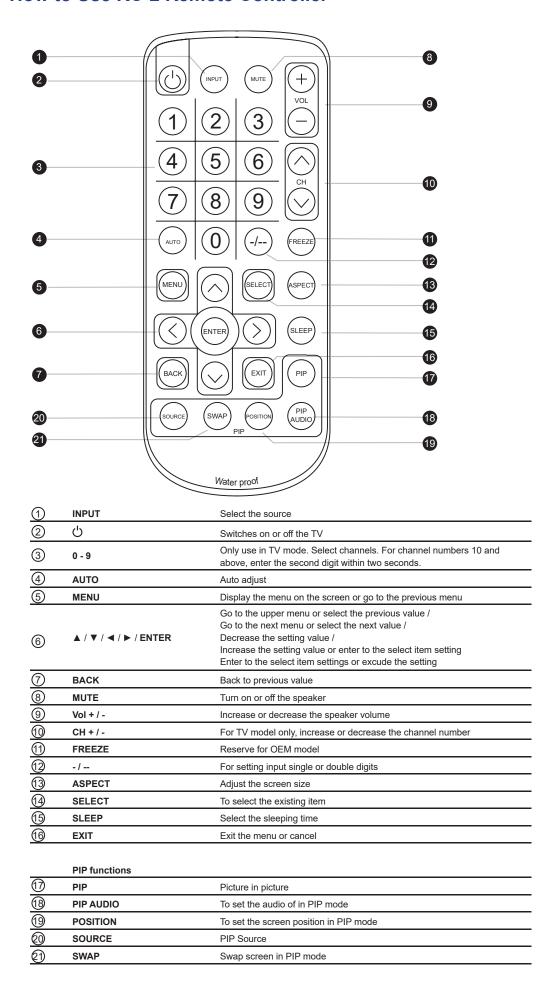
21.5" FHD LCD Display

- HMDI (HDMI 1.4, CEA-861-E)
- Display Port (DP 1.0, HCDP 1.3)
- Audio (Built-in Dual Stereo Speakers, 2W x 2) (3.5mm audio jacks for audio in & out)



Upgrade option comes with RC-2 remote controller x 2 (please refer to P.21)

How to Use RC-2 Remote Controller



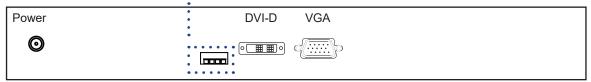


F21" USB Touchscreen Specification

Model	TPC-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	± 25 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	3.2 ± 0.2 mm	2.8 mm ± 10%	
Connector	USB Type A	USB Type A	USB Type A	
Compatibility	Windows 7	Windows 7 / X	P / Vista, Linux	

- 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



< 5.5 > Options : Touchscreen & driver



TPC-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

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/ultraview
- 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





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 🚹



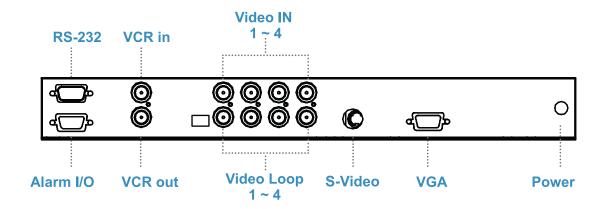
< 5.7 > Options : MIL-type or Lockable Connector

	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.

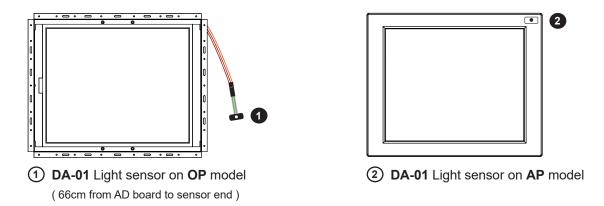


QD Specification

	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	1.0 Vpp, 75 Ohm x 4		
	VCR Input	1.0 Vpp, 75 Ohm x 1			
Video Output	Live Monitor	1.0 Vpp, 75 Ohm x 1			
	Loop Through Out	1.0 Vpp, 75 Ohm x 4			
	VCR Output	1.0 Vpp, 75 Ohm x 1			
Auto Gain Control		Yes			
Time / Date		Ye	Yes		
On Screen Display		Ye	Yes		
Camera Title		8 Charac	8 Character Title		
	2 x Zoom On Playback	Yes	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		Ye	Yes		
Key Lock		Ye:	Yes		

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

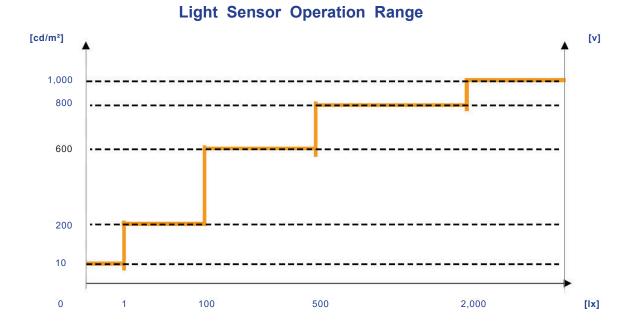
< 5.9 > Options for Sunlight Readable : Auto Dimming



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



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.



< 6 > Ultraview F21 Family

21.5" FHD LCD Display

250 cd/m² Brightness

6mm aluminum front bezel



AP-F21

6mm aluminum front bezel NEMA 4 / IP65 front protection



NAP-F21

Aluminum front cover



DP-F21

Universal open frame



OP-F21

MP-F21

Industrial Display Kit

- FHD 21" LED
- LCD controller
- AC power

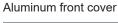
1000 cd/m² Sunlight Readable Brightness



HAP-F21



HNAP-F21





HDP-F21



HOP-F21

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