

User Manual 28" FHD 1920 x 1080 LCD



AP-F28 Aluminum front bezel

NAP-F28 Front NEMA4 / IP65





DP-F28 Aluminum Front Panel



Designed and manufactured by Austin Hughes

Legal Information

First English printing, April 2021

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.
 - □ Removal or installation of the product.
 - □ 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.
 - $\hfill\square$ 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-F28 / NAP-F28 < 1.1 > Package Content

AP-F28 / NAP-F28



28" FHD LCD Display X 1 6ft VGA cable X 1 Power adapter X 1 Power cord X 1

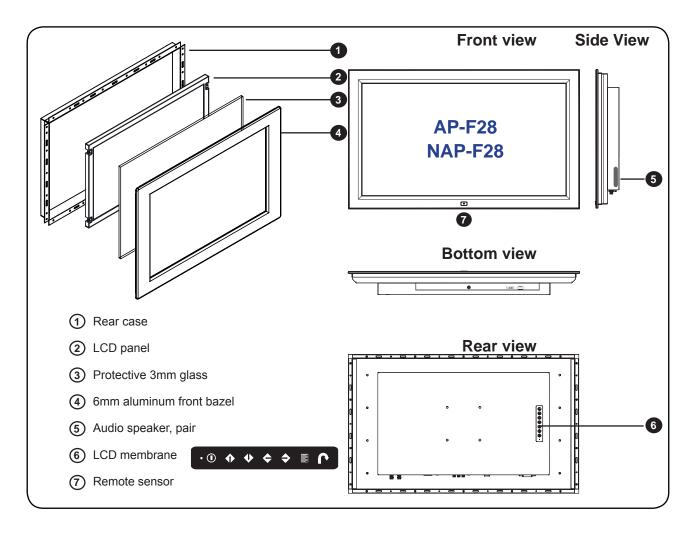
Basic I/O

Power	DVI-D VGA
Ø	

Upgrade I/O with advanced features

Power	Audio	······		VGA	BNC
0	Out in	DP	HDMI	q p	\odot

< 1.2 > Structure Diagram



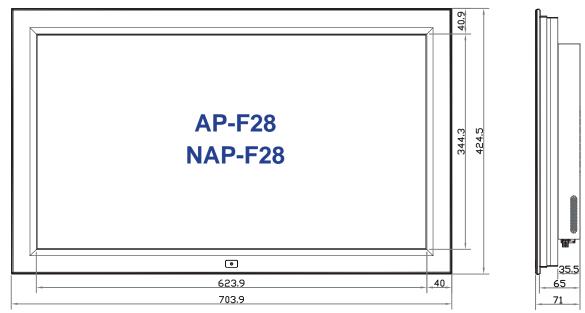
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
AP-F28	703.9 x 71 x 424.5 mm	785 x 175 x 527 mm	16.8 kg	20.4 kg
	27.7 x 2.8 x 16.7 inch	30.9 x 6.9 x 20.7 inch	37 lb	44.9 lb
NAP-F28	703.9 x 71 x 424.5 mm	785 x 175 x 527 mm	18.6 kg	22.2 kg
	27.7 x 2.8 x 16.7 inch	30.9 x 6.9 x 20.7 inch	40.9 lb	48.8 lb

28" FHD LCD Display

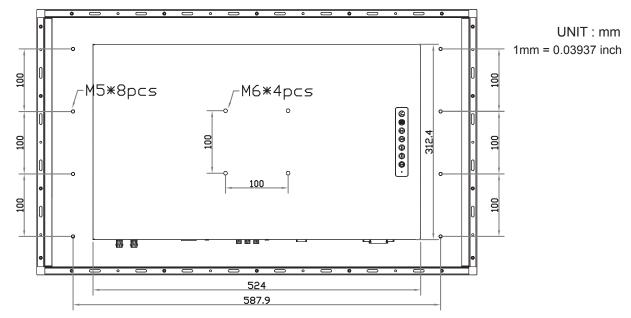
< 1.2 > Dimension

Front View

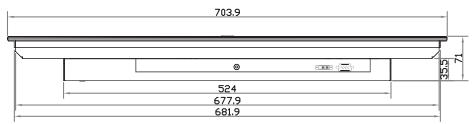
Side View



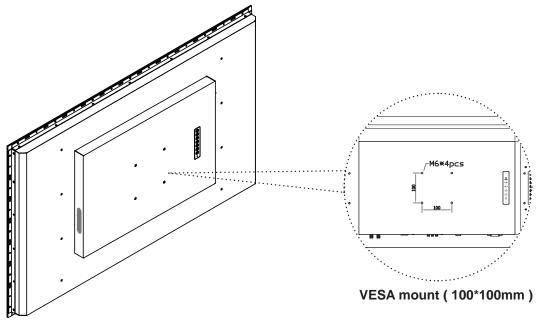
Rear View



Bottom View



< 1.3 > VESA Installation



■ Hardware and M6*4 pcs for VESA mount are not provided

< Part 2 > DP-F28 < 2.1 > Package Content

DP-F28



28" FHD LCD Display X 1 6ft VGA cable X 1 Power cord X 1 Remote controller X 1

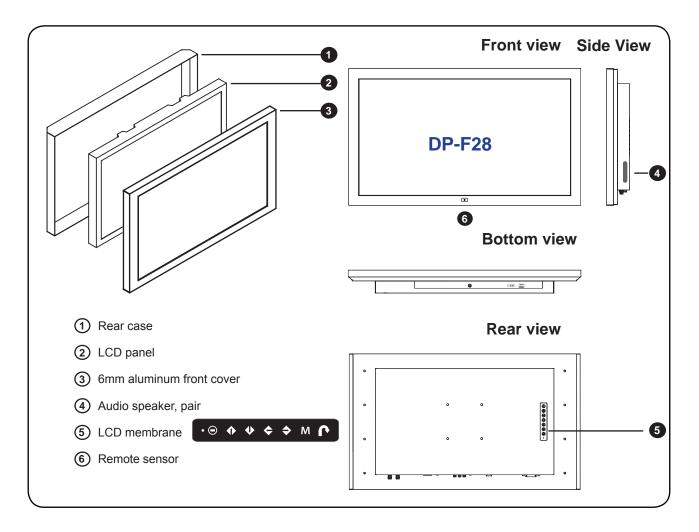
Basic I/O

Power	DVI-D VGA
Θ	

Upgrade I/O with advanced features

Power	Audio	······		VGA	BNC
0	Out in	DP	HDMI	q p	\odot

< 2.2 > Structure Diagram



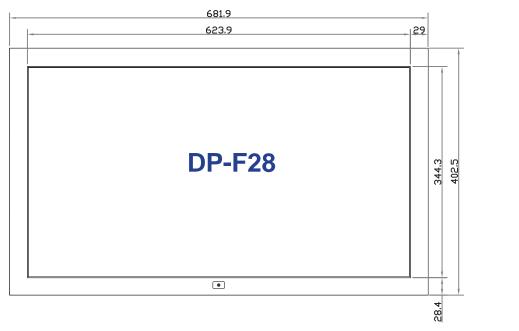
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
DP-F28	681.9 x 67 x 402.5 mm	785 x 175 x 527 mm	14.8 kg	18.4 kg
	26.8 x 2.6 x 15.8 inch	30.9 x 6.9 x 20.7 inch	32.6 lb	40.5 lb

< 2.2 > Dimension

28" FHD LCD Display

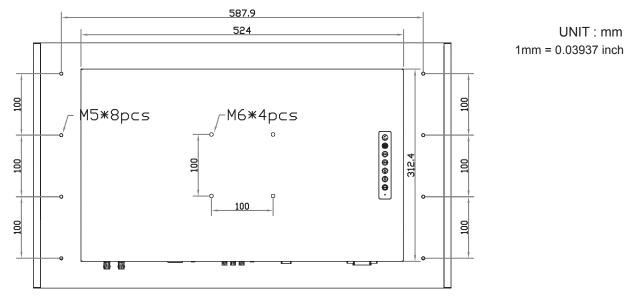
Front View

Side View

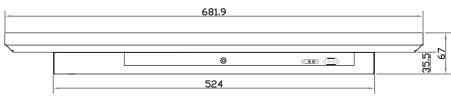




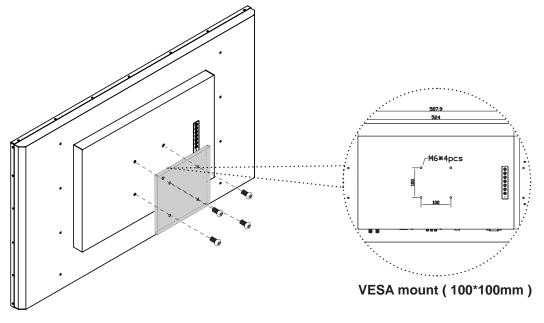
Rear View



Bottom View



< 2.3 > VESA Installation



■ Hardware and M6*4 pcs for VESA mount are not provided

< Part 3 > OP-F28 < 3.1 > Package Content

OP-F28



28" FHD LCD Display X 1 6ft VGA cable X 1 Power adapter X 1 Power cord X 1

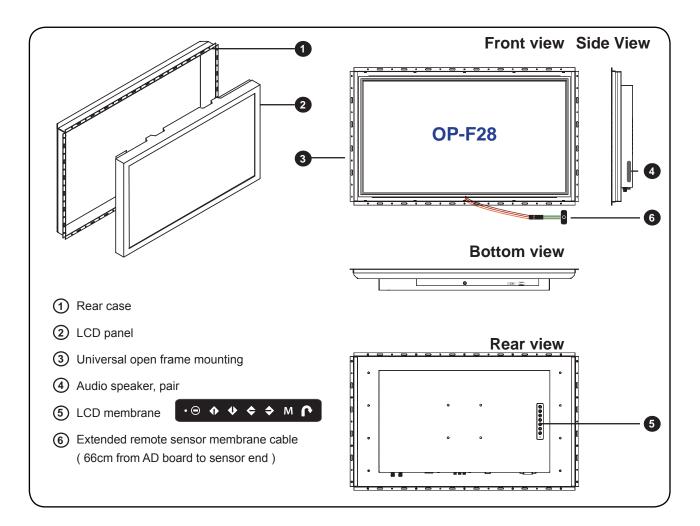
Basic I/O

Power	DVI-D VGA
Ø	

Upgrade I/O with advanced features

Power	Audio		VGA BNC
0	O O DP Out in	HDMI	

< 3.2 > Structure Diagram



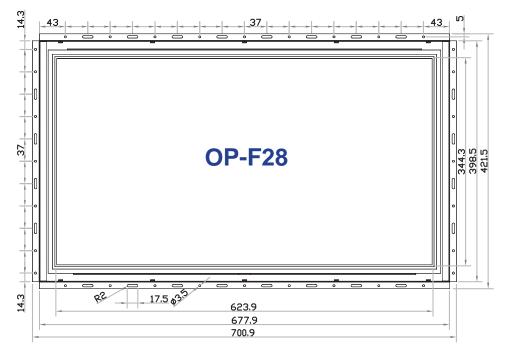
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
OP-F28	700.9 x 65 x 421.5 mm	785 x 175 x 527 mm	12.7 kg	16.3 kg
	27.6 x 2.6 x 16.6 inch	30.9 x 6.9 x 20.7 inch	27.9 lb	35.9 lb

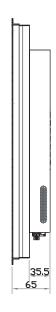
< 3.2 > Dimension

28" FHD LCD Display

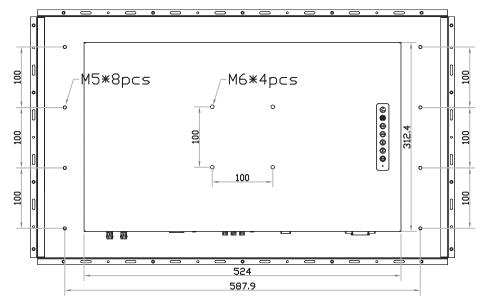
Front View

Side View



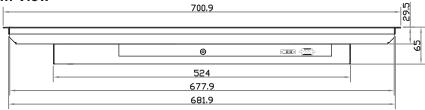


Rear View



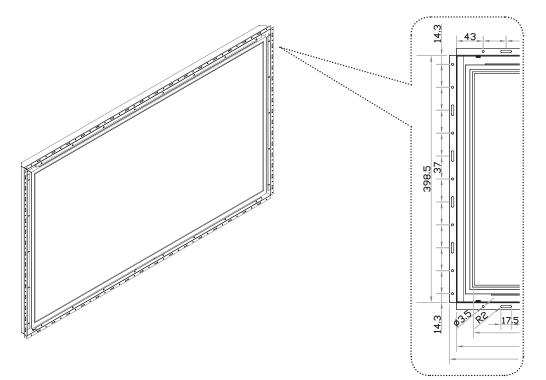
UNIT : mm 1mm = 0.03937 inch

Bottom View

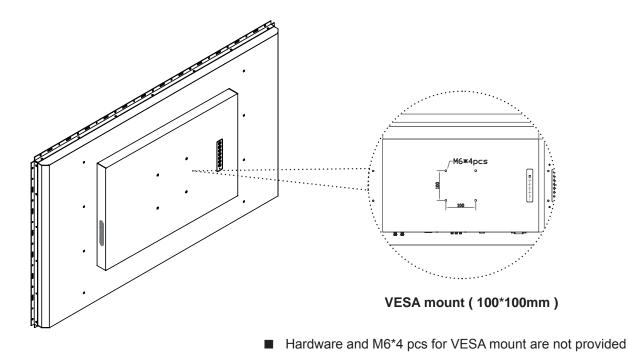


< 3.3 > Installation

(I) Universal mount



(II) VESA mount (100*100mm)



< Part 4 >

< 4.1 > Product Specifications

28" FHD LCD Display

Mechanical Design	AP-F28	NAP-F28	DP-F28	OP-F28	
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 1	00 mm		
Universal mount	-		-	ready	
Overhead titled wall-mount	option		option	-	
Desktop stand	option		option	-	

LCD Panel	
Panel Size (diagonal)	28-inch Widescreen TFT color LCD
Native resolution	1920 x 1080
Brightness (cd/m ²)	300
Contrast Ratio (typ.)	1000 : 1
Colors	1.07 Billion, 10-bit
Viewing Angle (L/R/U/D)	85/85/80/80
Response Time (ms)	5
Dot pitch (mm)	0.181
Display Area (mm)	620.93H x 341.28V
Surface treatment	Anti-glare
Surface hardness	ЗН
Backlight Type	LED
MTBF(hrs)	30,000

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
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	
Input	Auto-sensing 100 to 240VAC, 50 / 60Hz
Consumption:	
Screen ON	Max. 52W
Power saving mode	Max. 9W
Power button OFF	Max. 2W

Compliance	
EMC	FCC & CE certified
Safety	CE / LVD certified
Environment	RoHS3 & REACH compliant

< 4.1 > Product Specifications

	peomodilon			
Environmental Condition	ons			
Operating	Temperature		0 to 55°C degree	
	Humidity		20~90%, non-condens	ing
	Altitude		16,000 ft	
Storage /	Temperature		-20 to 60°C degree	
Non-operating	Humidity		5~90%, non-condensir	າg
	Altitude		40,000 ft	
	Shock		10G acceleration (11ms duration)	
	Vibration		10~300Hz 0.5G RMS random vibration	
Physical Specification	AP-F28	NAP-F28	DP-F28	OP-F28
Product (WxDxH)				
mm	703.9 x 7	1 x 424.5	681.9 x 67 x 402.5	700.9 x 65 x 421.5
inch	27.7 x 2	.8 x 16.7	26.8 x 2.6 x 15.8	27.6 x 2.6 x 16.6
Packing (W x D x H)				
mm		75 x 527	785 x 175 x 527	785 x 175 x 527
inch	30.9 x 6	.9 x 20.7	30.9 x 6.9 x 20.7	30.9 x 6.9 x 20.7
Net Weight	16.8 kg / 37 lb	18.6 kg / 40.9 lb	14.8 kg / 32.6 lb	12.7 kg / 27.9 lb
Gross Weight	20.4 kg / 44.9 lb 22.2 kg / 48.8 lb		18.4 kg / 40.5 lb 16.3 kg / 35.9 lb	
Chassis color	Dark			
Chassis motorials	Aluminum			

Chassis materials Aluminum

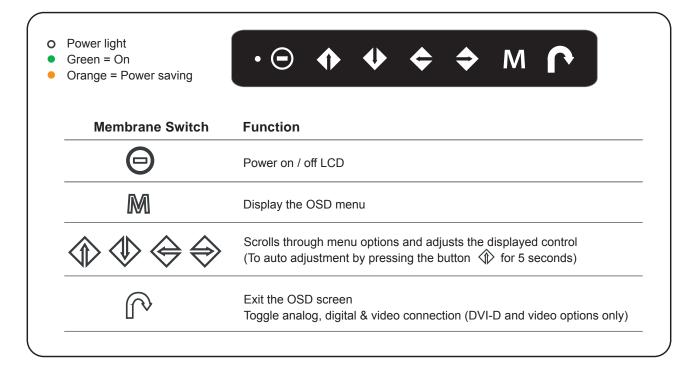
* All dimensions stated are subject to change if options are selected / integrated to base model part codes

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	

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)

28" FHD LCD Display



< 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 >
COLOR	ECO		STANDARD >
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

	PC	DSITION	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

3 Color

Color temperature	e: 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

		COLOR	HDMI 1920x1080@60.0Hz
	COLOR TEMPERATURE		warm >
←	SHARPNESS		48 >
POSITION	HUE		50 >
	SATURATION		50 >
COLOR	DYNAMIC LUMINOUS C	CONTROL	OFF >
*			
OSD SET			
RESET			
RESET			
MISC	▲/▼ : UP / DOWN	∢ / 	MENU : EXIT M52LW170DVI701IN

(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°

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

On-screen Display Operation (OSD)

5 Reset

Reset : Return the adjustment back to factory setting

28" FHD LCD Display

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

6 MISC

Signal source	e : 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

		MISC	HDMI 1920x1080@60.0Hz
PICTURE	SIGNAL SOURCE		ндмі >
←	MUTE		off >
POSITION	AUDIO IN		auto >
	VOLUME		70 >
COLOR	SLEEP MODE		OFF >
OSD SET			
RESET			
MISC			
	▲/▼ : UP / DOWN	∢ / ▶ : - / +	MENU : EXIT M52LW170DVI701IN

< 4.3 > How to Use RC-2 Remote Controller

6			
2—			
3	(4)		
•			
	(7)	$ (8) (9) (\vee) $	
4—		(0) (-/) (FREEZE) (1)	
5-	MENU	(SELECT) (ASPECT) 13	
•			
6			
7-	BACK		
20—		(SWAP) (POSITION) (PIP AUDIO)	
21-			
•			
		Water proof	
		and pro-	
1	INPUT	Select the source	
2	Ċ	Switches on or off the TV	
2 3 4 5	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	
		Go to the upper menu or select the previous value / Go to the next menu or select the next value /	
6	▲ / ▼ / ◀ / ► / ENTER	Decrease the setting value /	
Ŭ		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	
	MUTE	Turn on or off the speaker	
9	Vol + / -	Increase or decrease the speaker volume	
10	CH + / -	· · · · · · · · · · · · · · · · · · ·	
<u>(1)</u>	FREEZE	Reserve for OEM model	
(12)	-/	For setting input single or double digits	
<u>(13)</u>	ASPECT	Adjust the screen size	
(14) (12)	SELECT SLEEP	To select the existing item	
<u>16</u>	EXIT	Select the sleeping time Exit the menu or cancel	
<u>.</u>	-70		
	PIP functions		
17	PIP	Picture in picture	
18		To set the audio of in PIP mode	

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	

< Part 5 > Options

28" FHD LCD Display

< 5.1	> Option Ta	able

Options	AP / NAP	DP	OP
SDI	\checkmark	\checkmark	\checkmark
MCS multi-screen control	\checkmark	\checkmark	\checkmark
Touchscreen			
DC Power	\checkmark	\checkmark	\checkmark
MIL-type / lockable connector	\checkmark	\checkmark	\checkmark
Quad display	\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
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.18)

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
		1

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
	110-11 D1.000	57.01	(4001 12, 7.2.2

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

28" FHD LCD Display

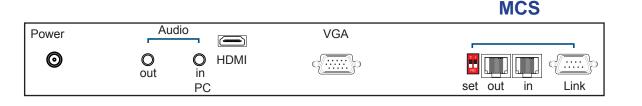
MCS (Multi-display Control)



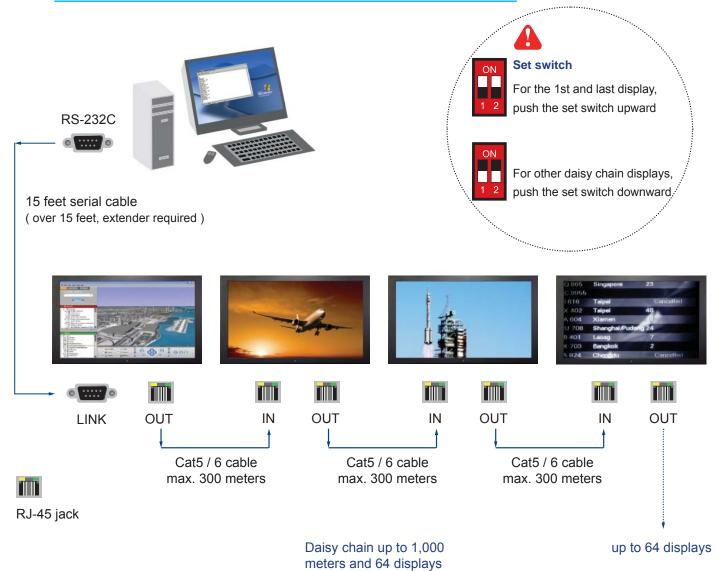
More control is always good. Especially when it is necessary and easy. Austin Hughes provides MCS solution to control the **OSD** of various UltraView LCD display up to 64 units.

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 > Options : DC Power



Model	24V	48V	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:	24-Volt	24-Volt	24-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	88%	90%	92%

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

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

< 5.5 > Options : MIL-type or Lockable Connector

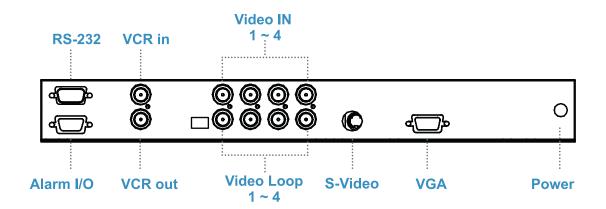
	Input	Part r	10.	MIL Standard
MIL - type Connector	DC Power *** (Male)	MS3470W8-33P		MIL - DTL - 26482
	VGA *** (Male)	MS3470W14-15P		MIL - DTL - 26482

*** 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.

< 5.6 > Options : Quad Display



QD Specification

	Item	Description			
Model Number		QD (NTSC) QD (PAL)			
Number of Cold	Dr	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,	75 Ohm x 4		
	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,	1.0 Vpp, 75 Ohm x 4		
	VCR Output	1.0 Vpp, 75 Ohm x 1			
Auto Gain Cont			Yes		
Time / Date			Yes		
On Screen Disp	blav		Yes		
Camera Title			racter 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.		: 1: 1A @DC24V Max.			
Alarm Hold Time 1 Sec to Non-stop		o Non-stop			
Built-in Buzzer		Yes			
Key Lock			Yes		

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

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