

User Manual 23" FHD 1920 x 1080 LCD



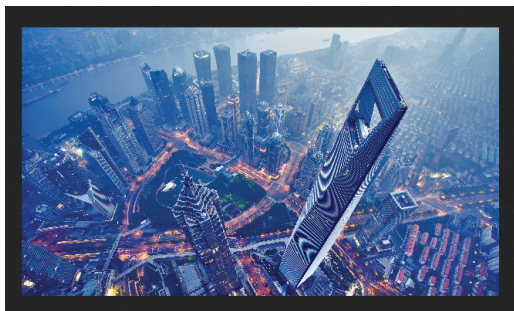
AP-F23

Aluminum front bezel



NAP-F23

Front NEMA4 / IP65



DP-F23

Aluminum Front Panel



OP-F23

Universal Open Frame



REACH

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-F23 / NAP-F23



23" FHD LCD display X 1

6ft VGA cable X 1

Power adapter X 1

Power cord X 1

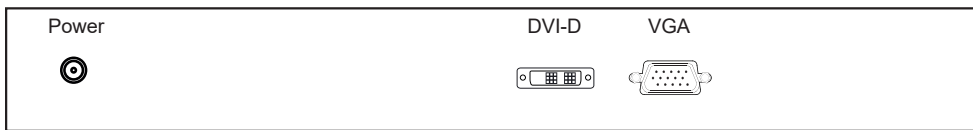
Mounting hardware X 1 pack

- Mounting bracket x 4 pcs

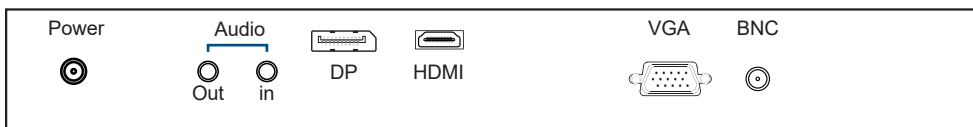
- M4* 6mm screw x 8 pcs

- M4* 50mm screw x 8 pcs

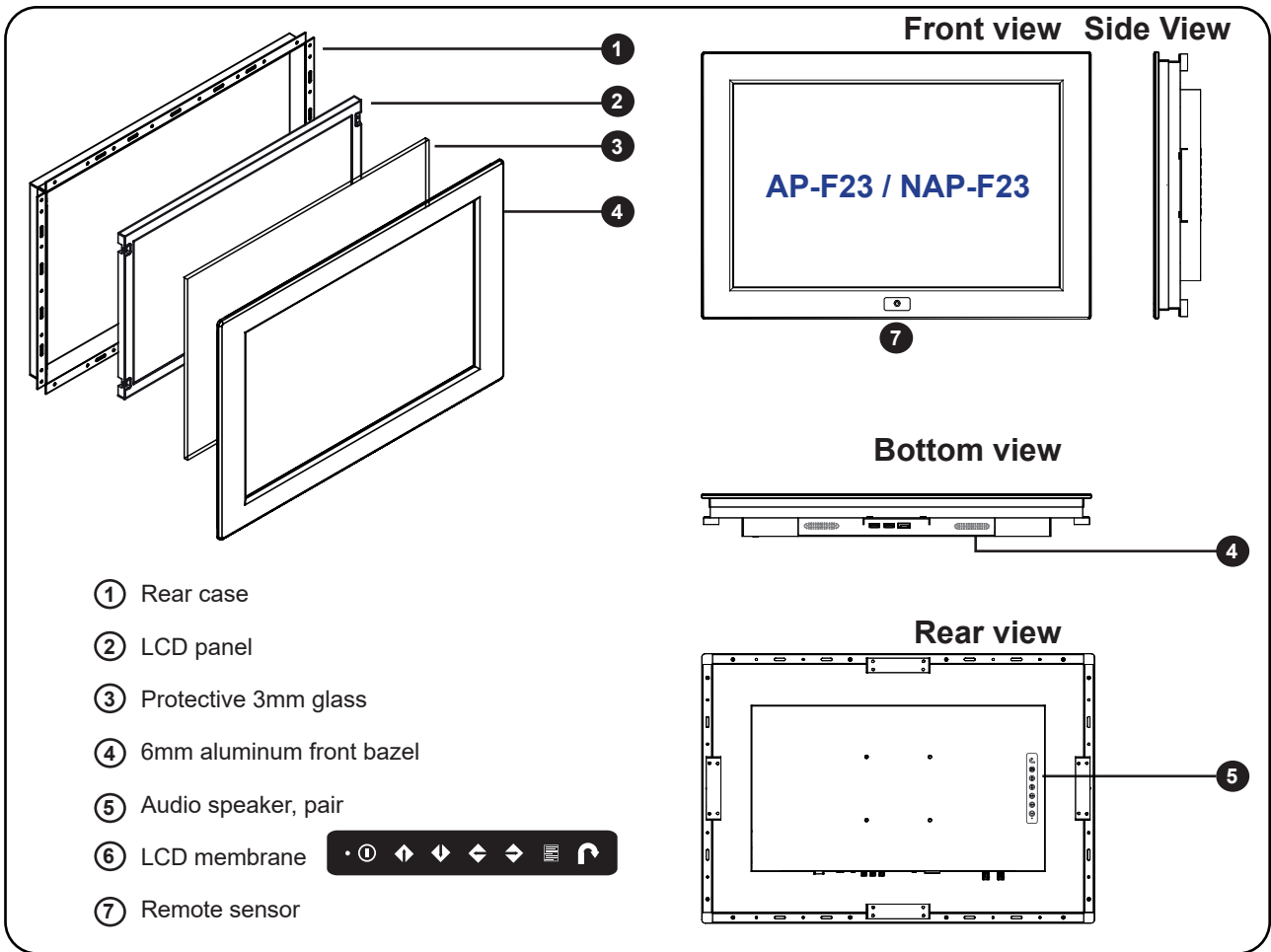
Basic I/O



Upgrade I/O with advanced features

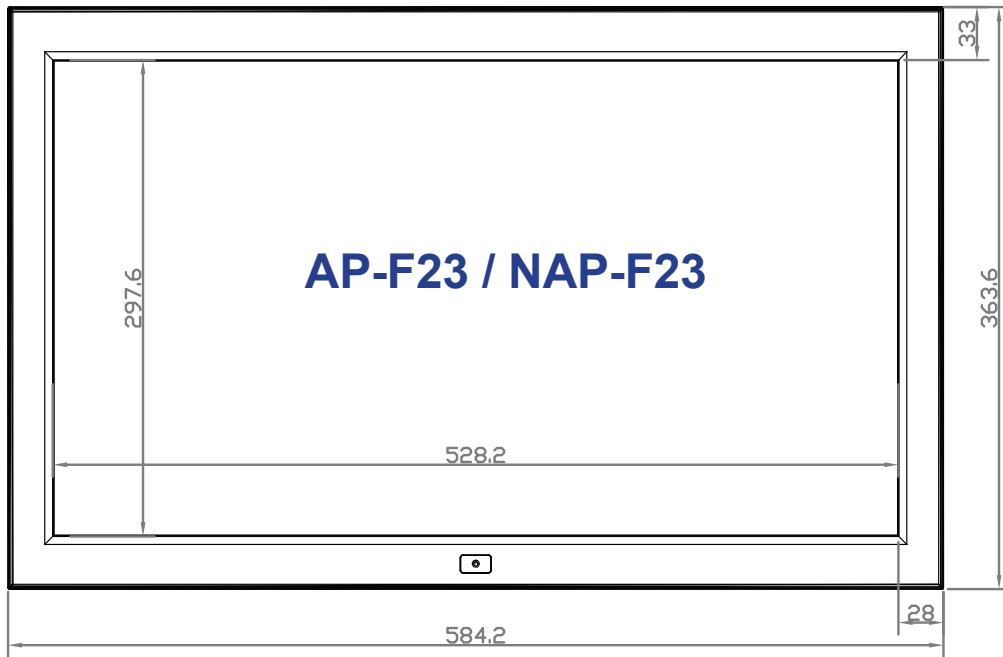


< 1.2 > Structure Diagram

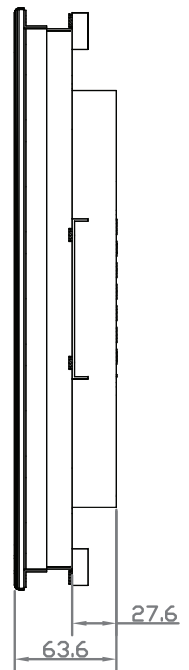


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
AP-F23	584.2 x 63.6 x 363.6 mm 23 x 2.5 x 14.3 inch	659 x 117 x 640 mm 25.9 x 4.6 x 25.2 inch	9 kg 19.8 lb	12.7 kg 27.9 lb
NAP-F23			10.4 kg 22.88 lb	14.1 kg 31.02 lb

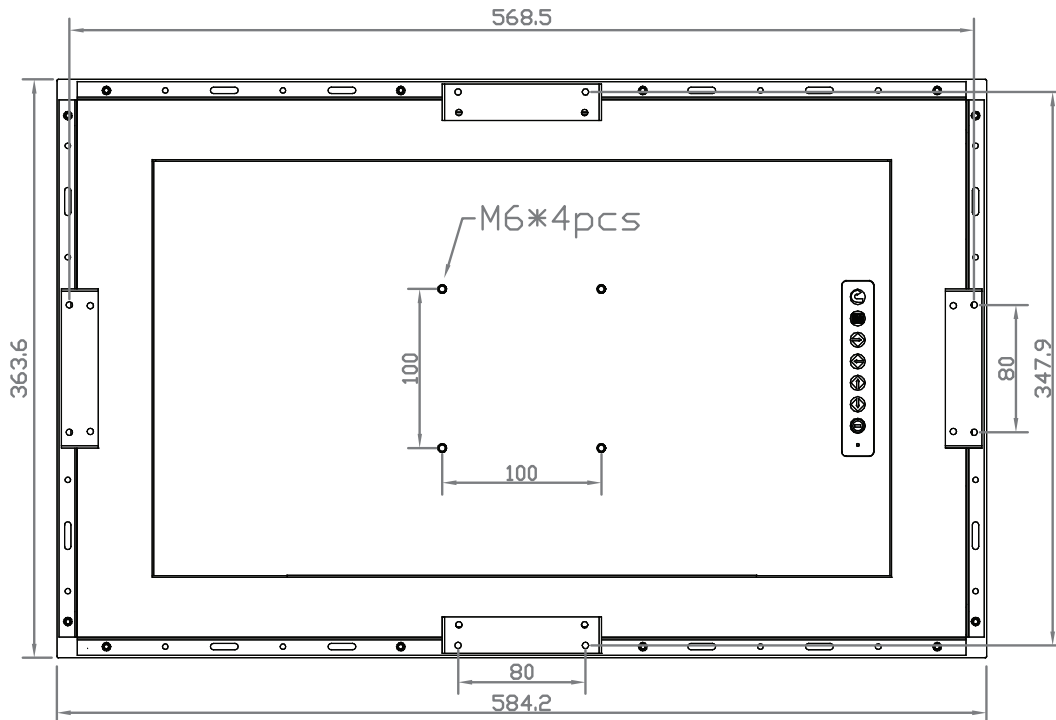
Front View



Side View

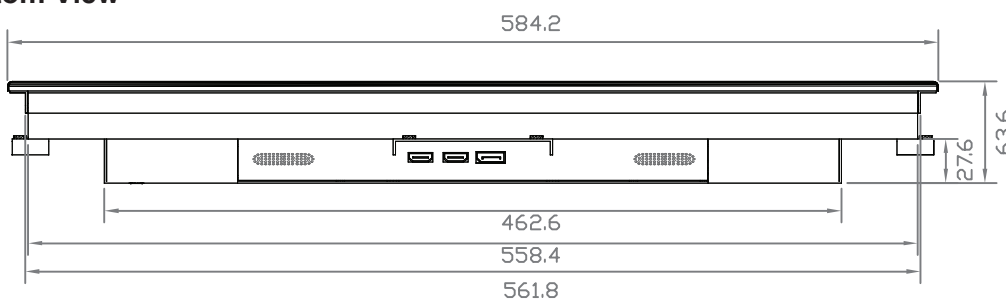


Rear View



UNIT : mm
1mm = 0.03937 inch

Bottom View



< 1.3 > Installation (I) Panel mount

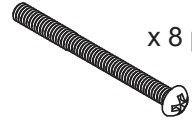
1 Mounting bracket
x 4 pcs



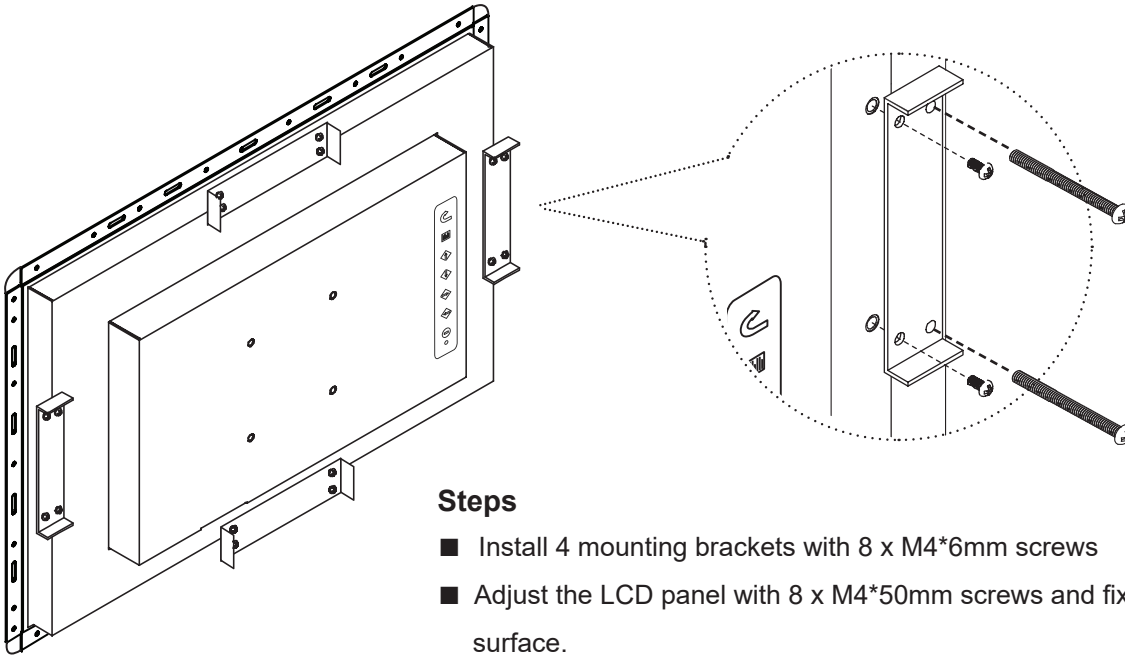
2 M4*6mm screw
x 8 pcs



3 M4*50mm screw
x 8 pcs



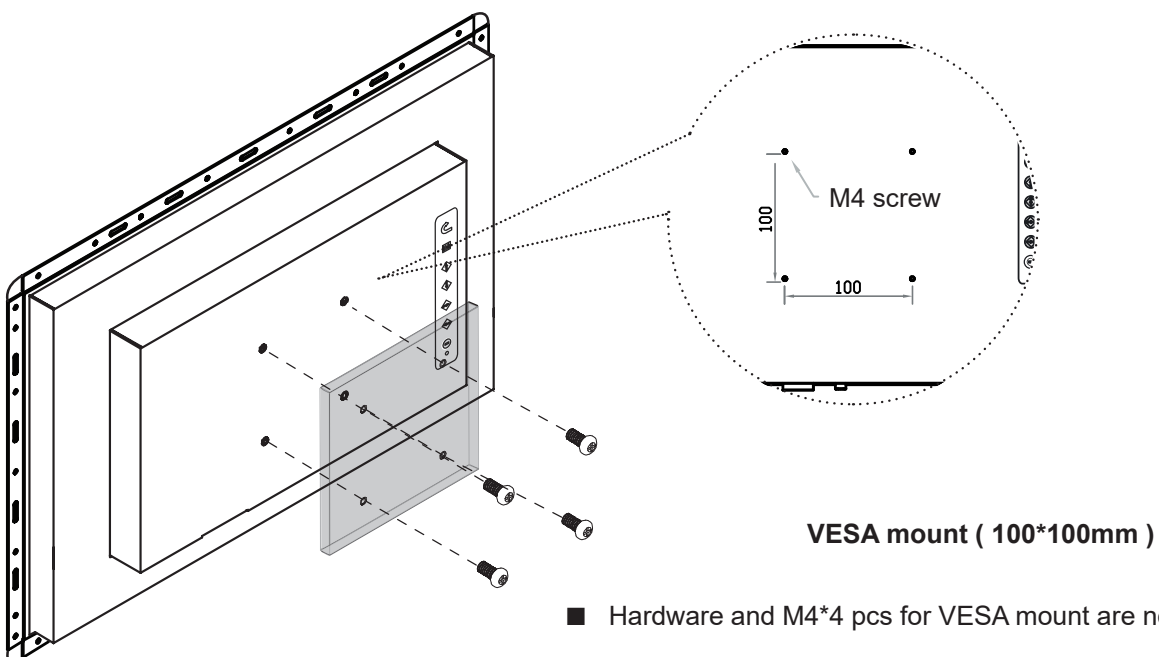
Hardware set part no. UV-BK#2



Steps

- Install 4 mounting brackets with 8 x M4*6mm screws
- Adjust the LCD panel with 8 x M4*50mm screws and fix it on the surface.

(II) VESA mount (100*100mm)



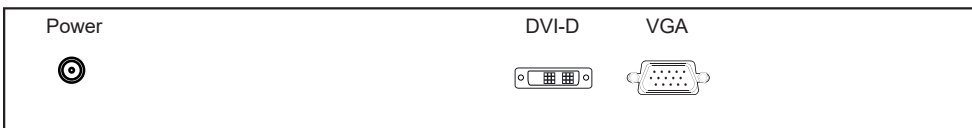
- Hardware and M4*4 pcs for VESA mount are not provided

DP-F23

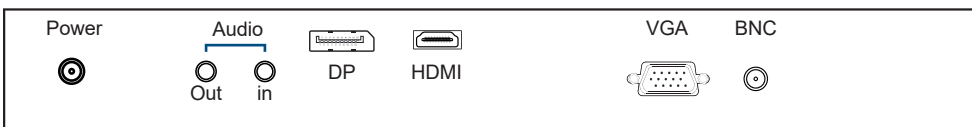


- 23" FHD LCD display X 1
- 6ft VGA cable X 1
- Power adapter X 1
- Power cord X 1

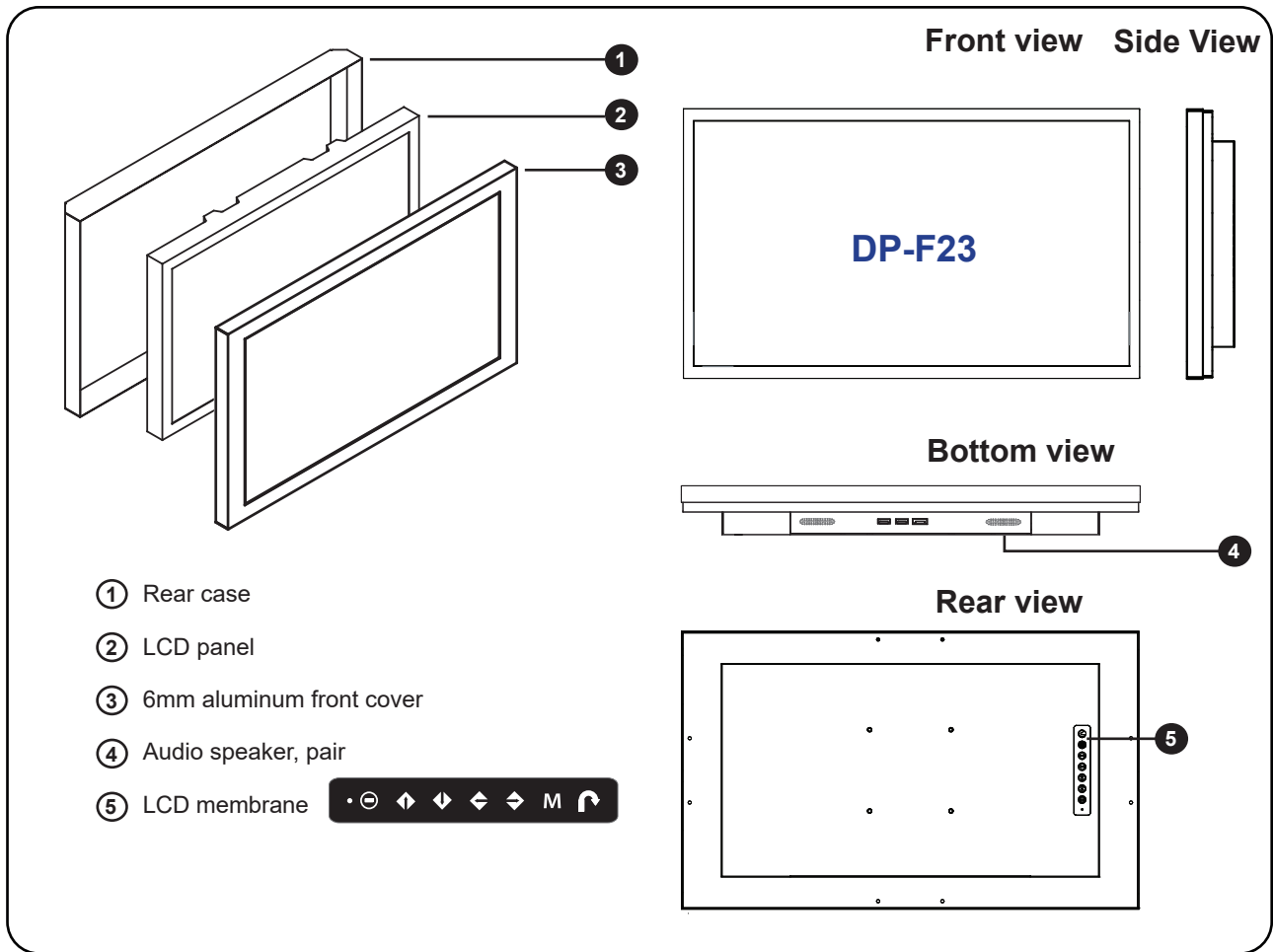
Basic I/O



Upgrade I/O with advanced features

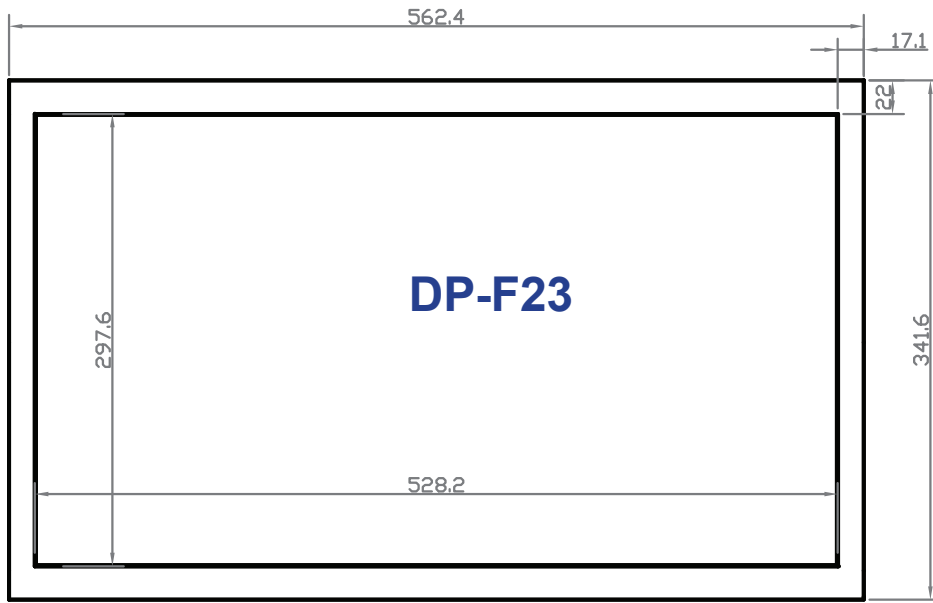


< 2.2 > Structure Diagram

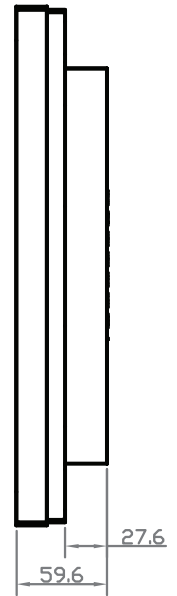


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
DP-F23	562.4 x 59.6 x 341.6 mm 22.1 x 2.3 x 13.4 inch	659 x 117 x 640 mm 25.9 x 4.6 x 25.2 inch	7.9 kg 17.38 lb	11.6 kg 25.52 lb

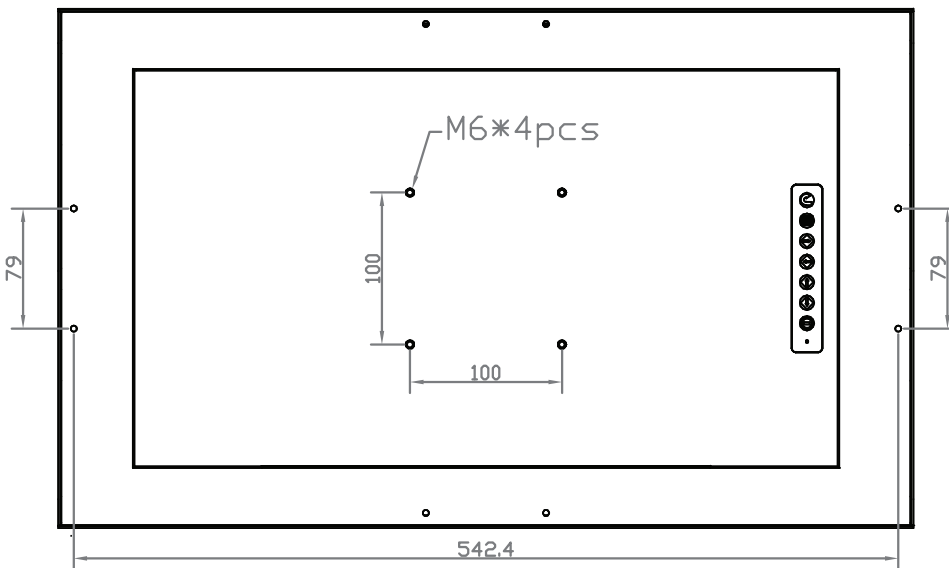
Front View



Side View

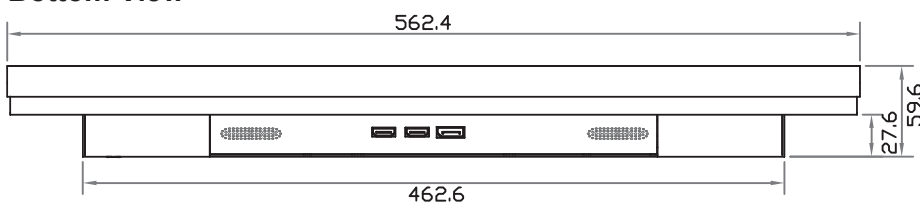


Rear View

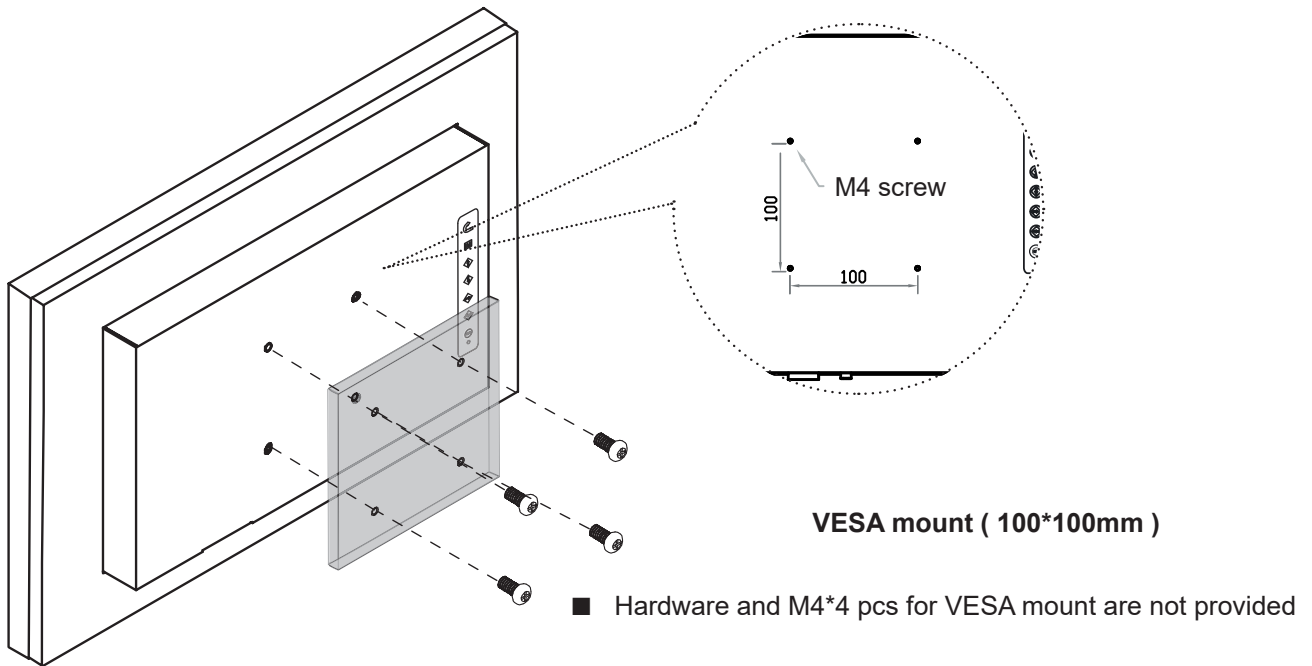


UNIT : mm
1mm = 0.03937 inch

Bottom View



< 2.3 > VESA mount Installation

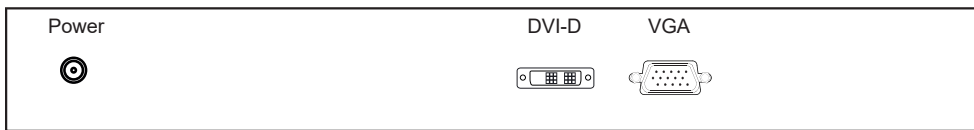


OP-F23

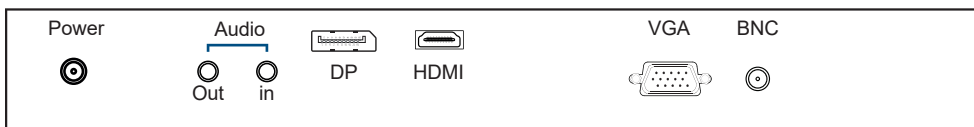


- 23" FHD LCD display X 1
- 6ft VGA cable X 1
- Power adapter X 1
- Power cord X 1

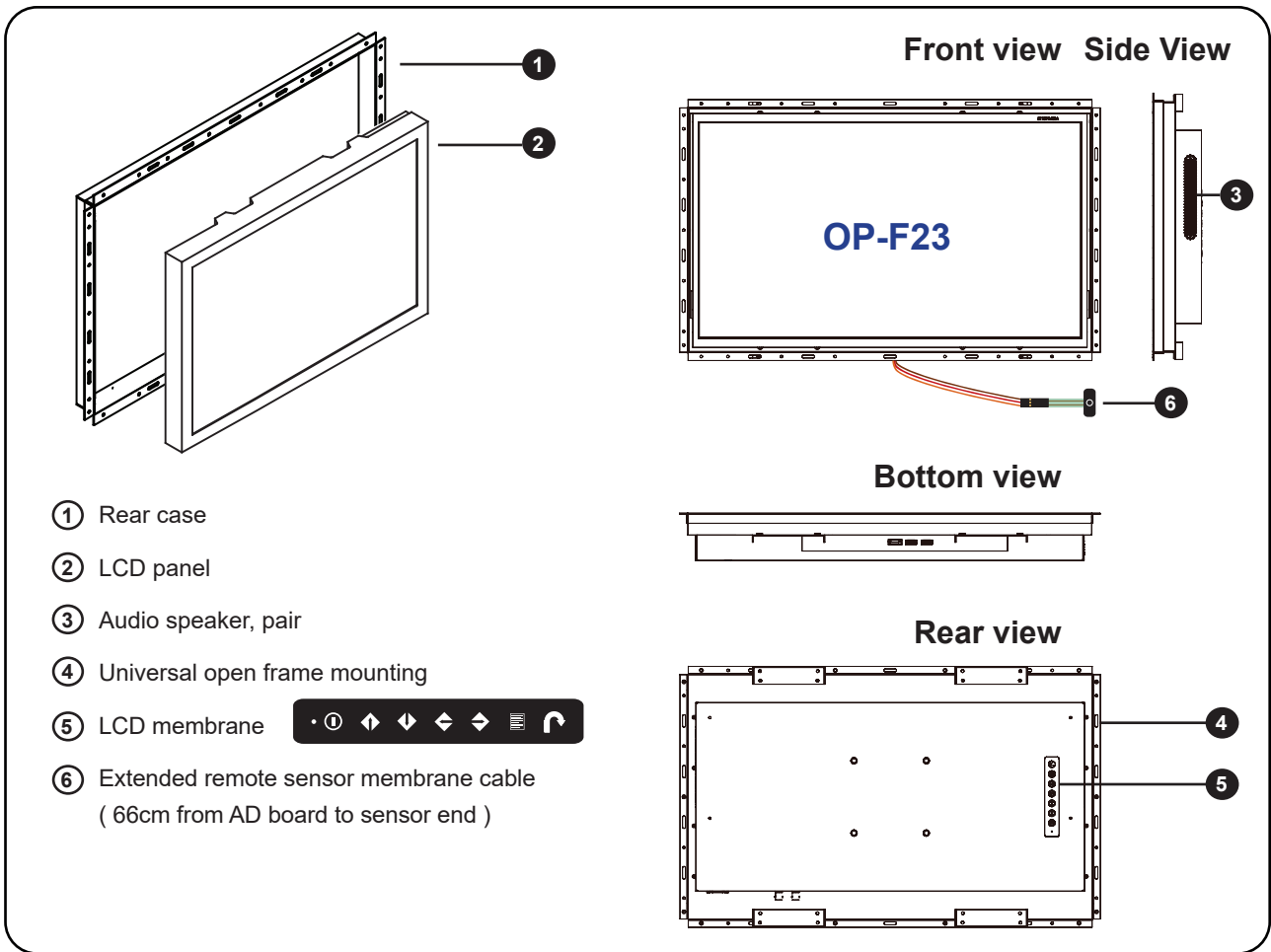
Basic I/O



Upgrade I/O with advanced features



< 3.2 > Structure Diagram

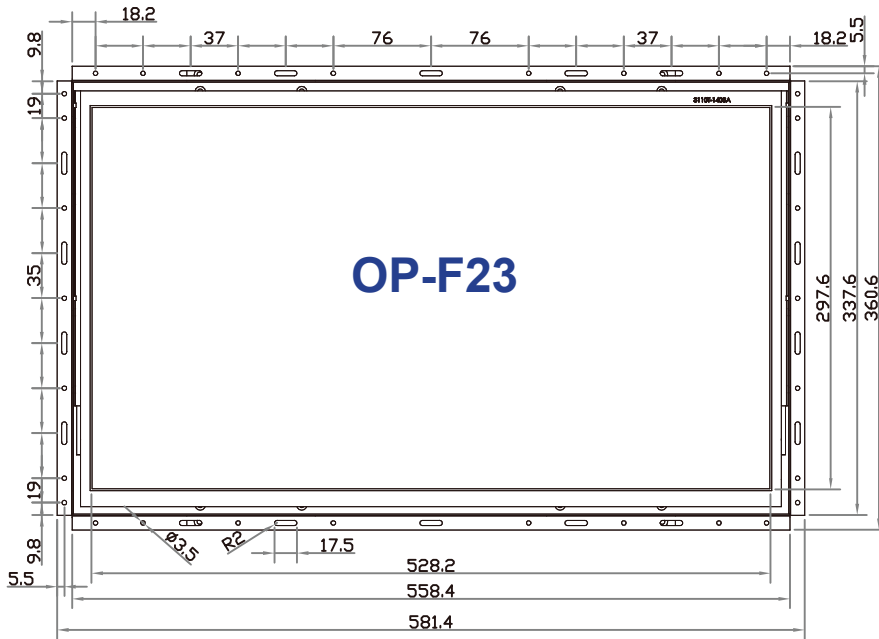


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
OP-F23	581.4 x 65.3 x 360.6 mm 22.9 x 2.6 x 14.2 inch	659 x 117 x 640 mm 25.9 x 4.6 x 25.2 inch	6.7 kg 14.7 lb	10.4 kg 22.9 lb

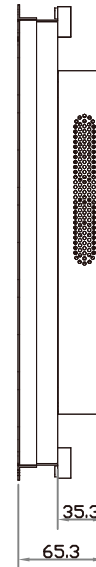
< 3.2 > Dimension

23" FHD LCD Display

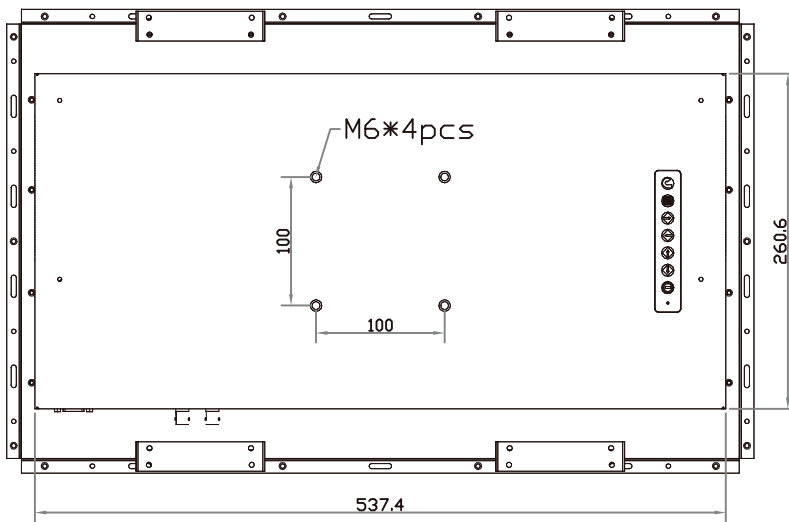
Front View



Side View

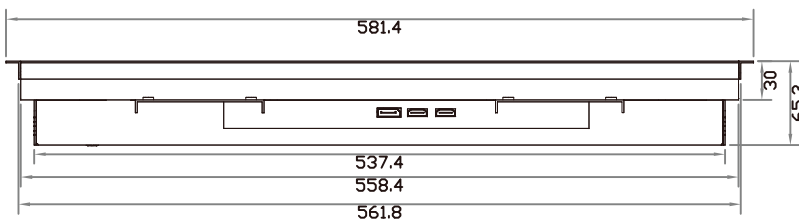


Rear View



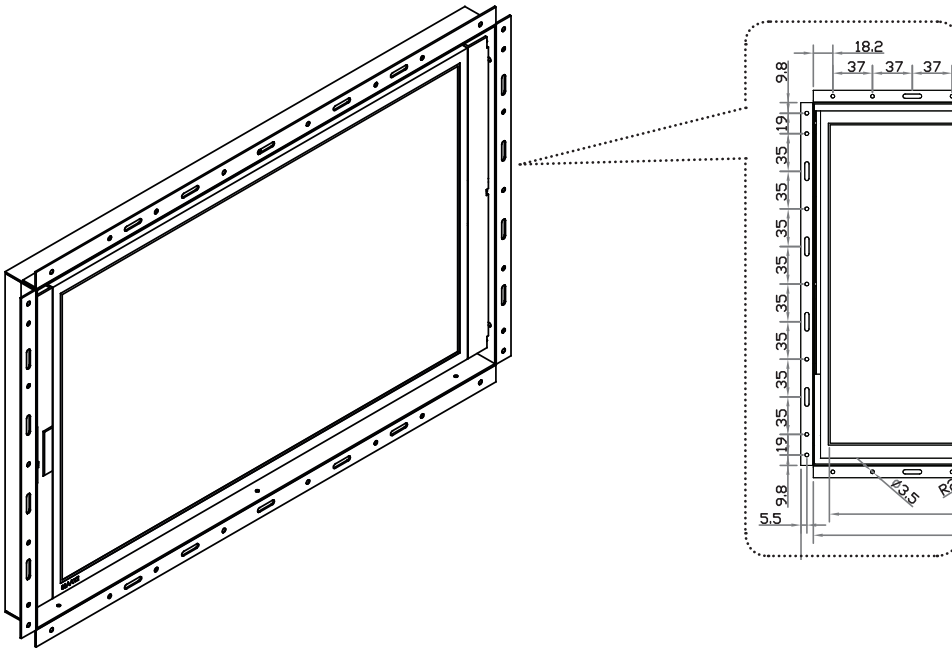
UNIT : mm
1mm = 0.03937 inch

Bottom View

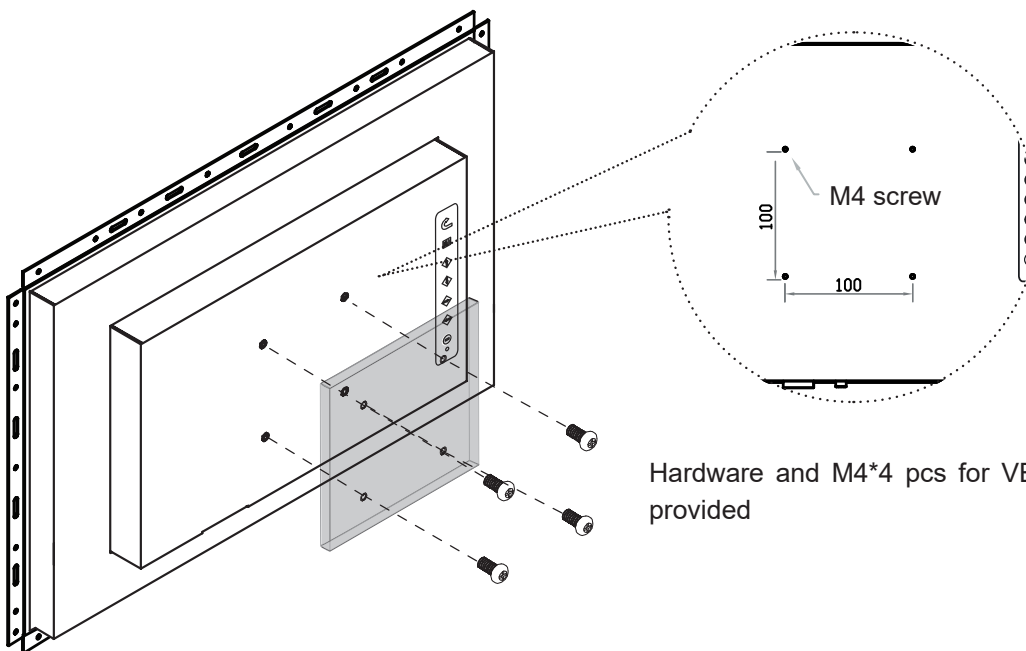


< 3.3 > Installation

(I) Universal mount



(II) VESA mount (100*100mm)



Intentionally Left Blank

< Part 4 >

< 4.1 > Product Specifications

Mechanical Design	AP-F23	NAP-F23	DP-F23	OP-F23
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 stand	option	option	option	-
Panel mount	bundled	-	-	-

LCD Panel	
Panel Size (diagonal)	23-inch Widescreen TFT color LCD
Native resolution	1920 x 1080
Brightness (cd/m ²)	310
Contrast Ratio (typ.)	1000 : 1
Colors	1.07 Billion, 10-bit
Viewing Angle (L/R/U/D)	89/89/89/89
Response Time (ms)	25
Dot pitch (mm)	0.13725
Display Area (mm)	527.04H x 296.46V
Surface treatment	Anti-glare
Surface hardness	3H
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
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. 45W
Power saving mode	Max. 9W
Power button OFF	Max. 2W

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

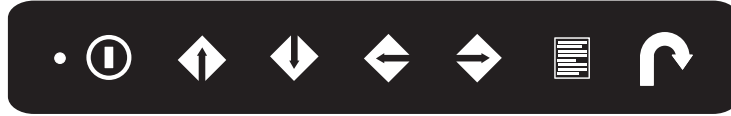
Physical Specification	AP-F23	NAP-F23	DP-F23	OP-F23
Product (W x D x H)				
mm	584.2 x 63.6 x 363.6		562.4 x 59.6 x 341.6	581.4 x 65.3 x 360.6
inch	23 x 2.5 x 14.3		22.1 x 2.3 x 13.4	22.9 x 2.6 x 14.2
Packing (W x D x H)				
mm	659 x 117 x 640		659 x 117 x 640	659 x 117 x 640
inch	25.9 x 4.6 x 25.2		25.9 x 4.6 x 25.2	25.9 x 4.6 x 25.2
Net Weight	9 kg / 19.8 lb	10.4 kg / 22.88 lb	7.9 kg / 17.4 lb	6.7 kg / 14.7 lb
Gross Weight	12.7 kg / 27.9 lb	14.1 kg / 31.02 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	
		1400 x 1050 x 60Hz	
		1440 x 900 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	
HDMI Input	Audio Signal	2ch Linear PCM	
		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)			
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)

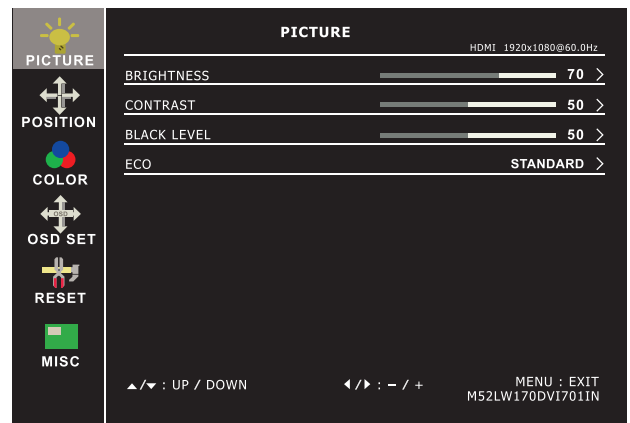
- Power light
- Green = On
- Orange = Power saving



Membrane Switch	Function
	Power on / off LCD
	Display the OSD menu
	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button for 5 seconds)
	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)

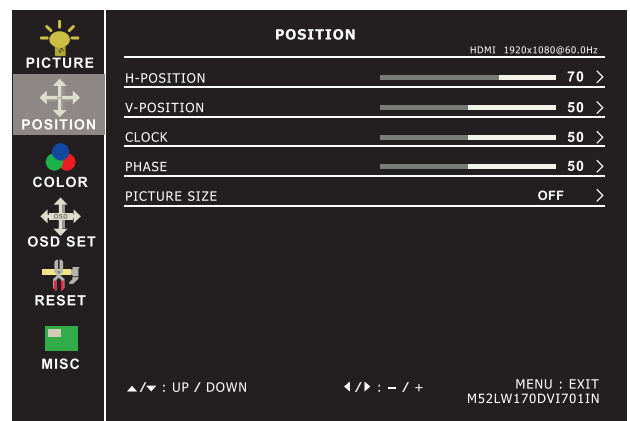
① Picture

- 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



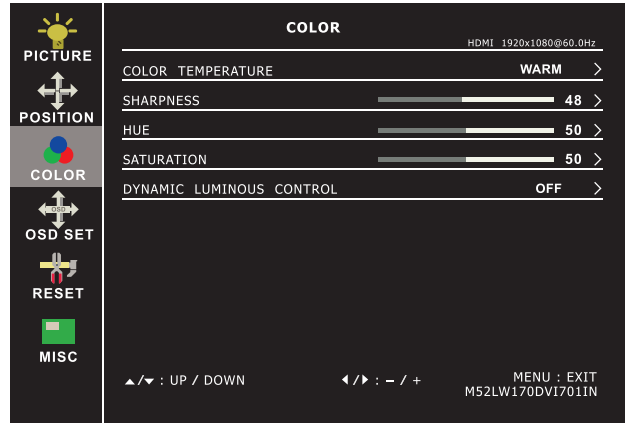
② Position

- H-Position : To adjust the horizontal position of the 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 SCREEN / 4:3 / 5:4 / 16:10



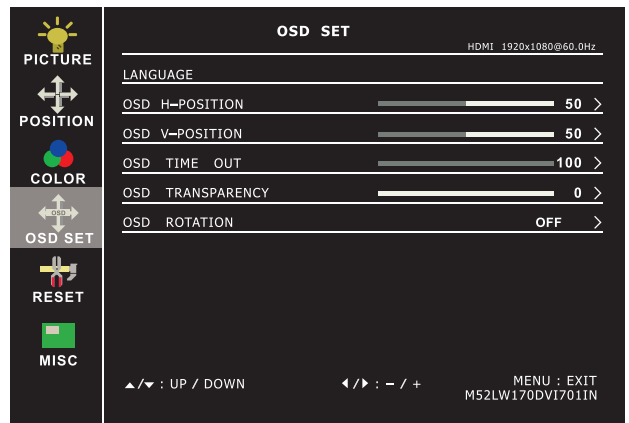
③ Color

- 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



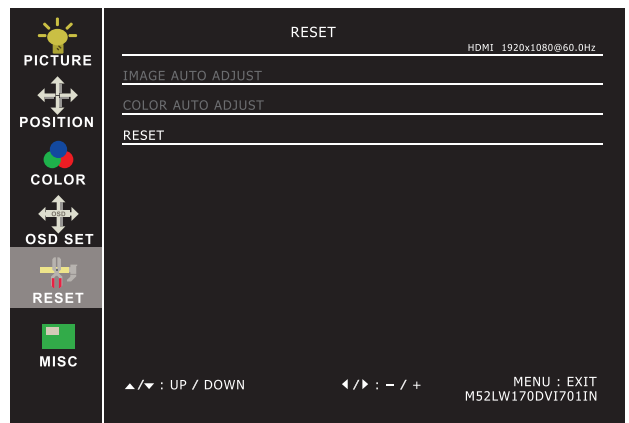
④ OSD Set

- 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°



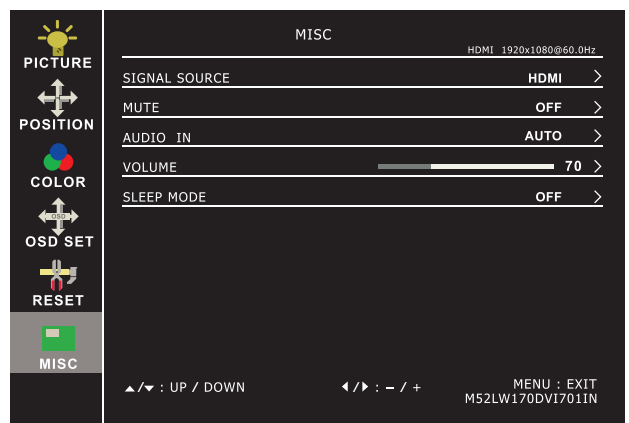
⑤ Reset

- 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

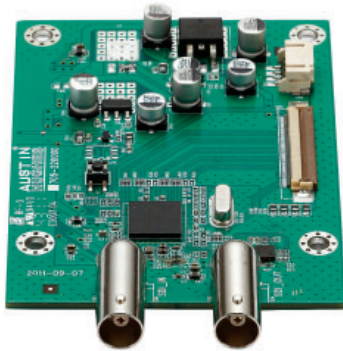
< 5.1 > Option Table

Options	AP / NAP	DP	OP
SDI ***	✓	✓	✓
Composite (BNC)	✓	✓	✓
Audio	✓	✓	✓
Touchscreen	✓	✓	✓
MCS multi-display control	✓	✓	✓
DC Power	✓	✓	✓
MIL-type / lockable connector	✓	✓	✓
Quad display	✓	✓	✓



*** About SDI

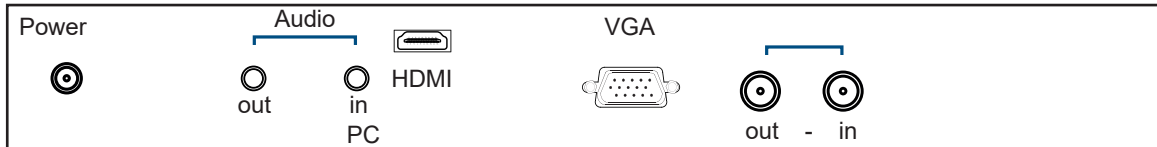
The AD board comes standard with HDMI, VGA, BNC, audio inputs and RC-2 remote controller.



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



*** For **SDI** option, the AD board comes standard with HDMI, VGA, BNC, audio inputs and RC-2 remote controller (please refer to P.22)

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

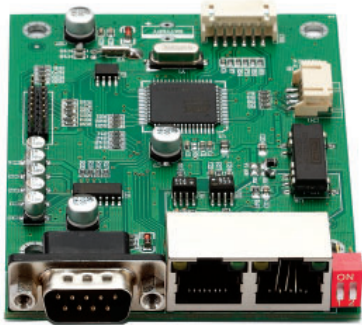
Compatible Video Format	3G-SDI	1080p	@60 / 50Hz, 4:2:2
		1080p	@30 / 25 / 24Hz, 4:4:4
		1080i	@60 / 50Hz, 4:4:4
		720p	@60 / 50Hz, 4:4:4
	HD-SDI	1080p	@30 / 25 / 24Hz, 4:2:2
		1080i	@60 / 50Hz, 4:2:2
		720p	@60 / 50Hz, 4:2:2
SD-SDI	480i	@60Hz, 4:2:2	
ITU-R BT.656	576i	@50Hz, 4:2:2	

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 / Asynchronous Video

Max. Transmission Distance 75 ohm coaxial cable	3G-SDI	150m at 2.97Gb/s
	HD-SDI	250m at 1.485Gb/s
	SD-SDI	480m at 270Mb/s

< 5.3 > Options : MCS

MCS (Multi-display Control)

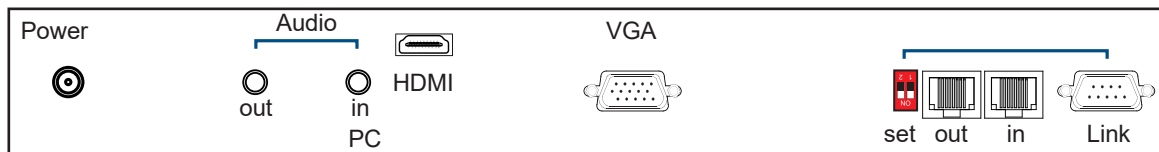


More control is always good. Especially when it is necessary and easy. Austin Hughes provides MCS solution to control the **OSD** of various UltraView LCD display up to 64 units.

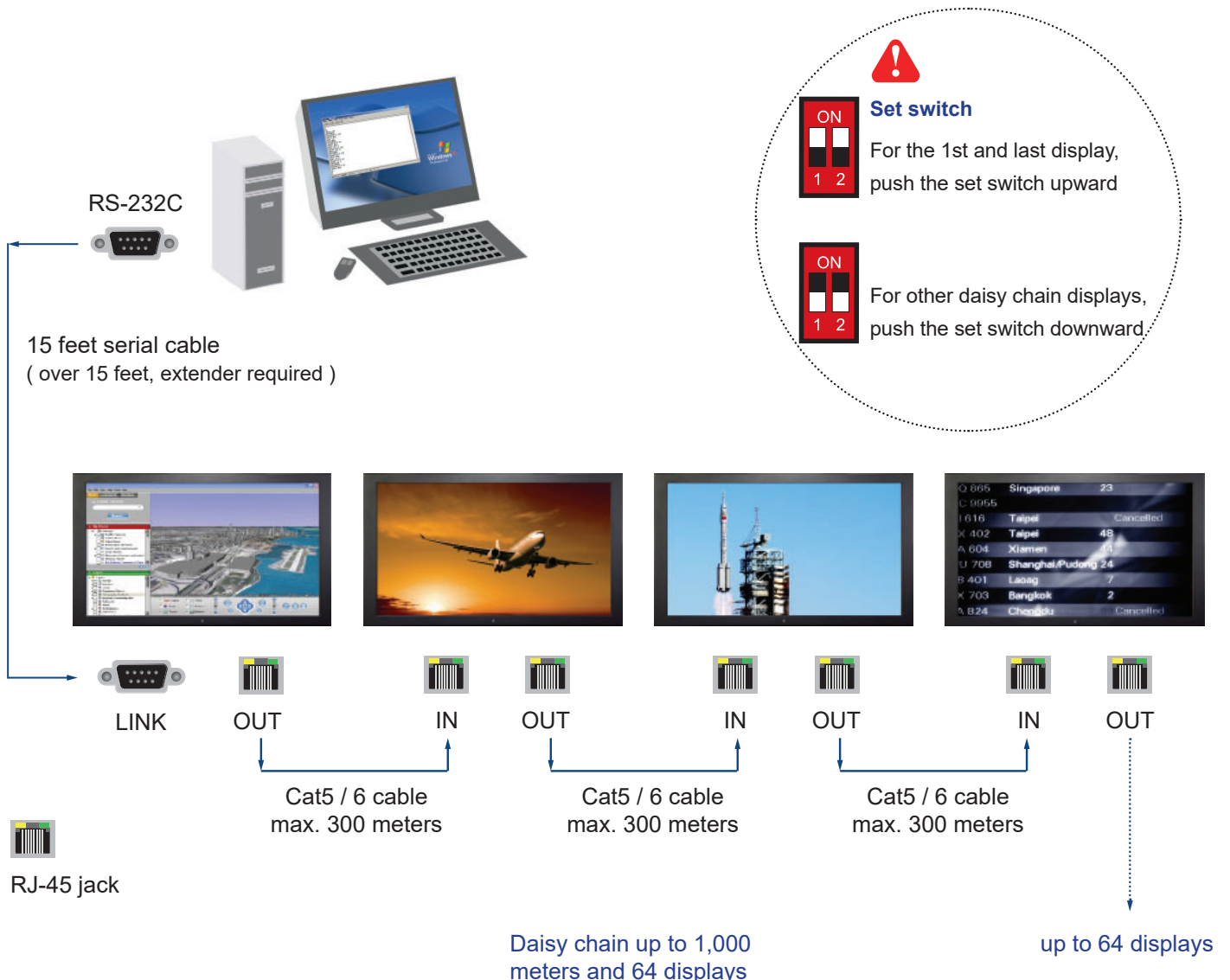
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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



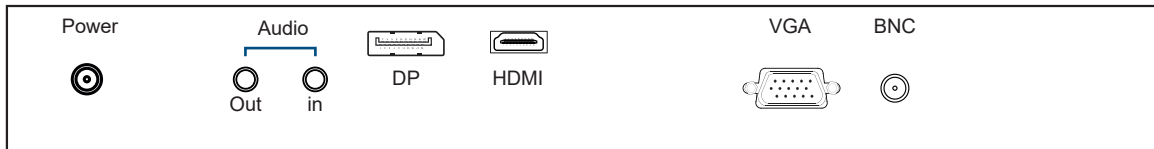
*** Please download the protocol of MCS control at :
<http://www.austin-hughes.com/support/usermanual/ultraview/UM-UV-MCS.pdf>



< 5.4 > Upgrade Options :

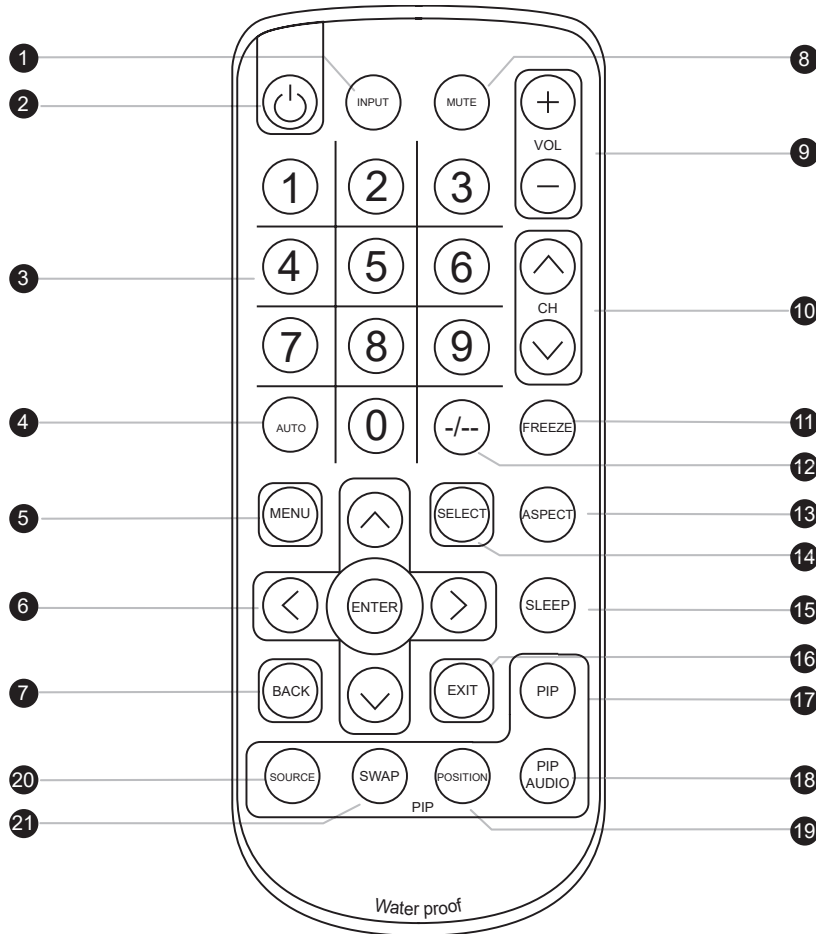
23" FHD LCD Display

- **HDMI** (HDMI 1.4, CEA-861-E)
- **Display Port** (DP 1.0, HDCP 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.22)

How to Use RC-2 Remote Controller



①	INPUT	Select the source
②	⏻	Switches on or off the TV
③	0 - 9	Only use in TV mode. Select channels. For channel numbers 10 and above, enter the second digit within two seconds.
④	AUTO	Auto adjust
⑤	MENU	Display the menu on the screen or go to the previous menu
⑥	▲ / ▼ / ◀ / ▶ / ENTER	Go to the upper menu or select the previous value / Go to the next menu or select the next value / Decrease the setting value / Increase the setting value or enter to the select item setting Enter to the select item settings or excude the setting
⑦	BACK	Back to previous value
⑧	MUTE	Turn on or off the speaker
⑨	Vol + / -	Increase or decrease the speaker volume
⑩	CH + / -	For TV model only, increase or decrease the channel number
⑪	FREEZE	Reserve for OEM model
⑫	- / - -	For setting input single or double digits
⑬	ASPECT	Adjust the screen size
⑭	SELECT	To select the existing item
⑮	SLEEP	Select the sleeping time
⑯	EXIT	Exit the menu or cancel
PIP functions		
⑰	PIP	Picture in picture
⑱	PIP AUDIO	To set the audio of in PIP mode
⑲	POSITION	To set the screen position in PIP mode
⑳	SOURCE	PIP Source
㉑	SWAP	Swap screen in PIP mode

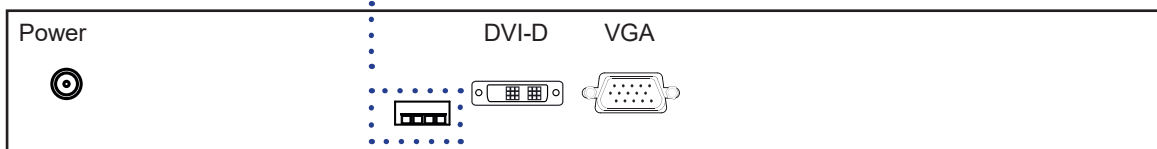


F23" USB Touchscreen Specification

Model	TPC-10 Multi-touch	TRB e-Resistive	IR-06 Infrared
Technology	Projected Capacitive	5-Wire Resistive	Infrared
Touch Point	10	Single	6
Input Type	Finger or Capacitive Stylus	Finger or Stylus	Pen, Finger, Finger of gloved hand activation
Resolution	4096 x 4096	2048 x 2048	-
Touch Point Accuracy	± 2 mm	-	± 2 mm
Response Speed	< 5 ms	15 ms	≤ 8ms
Activation Force	< 5 g	≤ 50 g	No minimum touch activation force
Surface Hardness	6H	3H	-
Light Transmission	> 85%	80% ± 3%	-
Haze	3% ↓	8% ± 3%	-
Durability	50 million touches	10 million touches	Unlimited
Top Layer	3 mm Glass	ITO Film	Glass
Bottom Layer	0.7 mm Sensor Glass	ITO Glass	
Thickness	3.9 ± 0.1 mm	2.2 ± 0.2 mm	2 mm
Connector	USB	USB Type A	USB Type A
Compatibility	Linux / Android / Windows / Mac	Windows 7 / XP / Vista, Linux	Windows 7 / Windows 10

- 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>

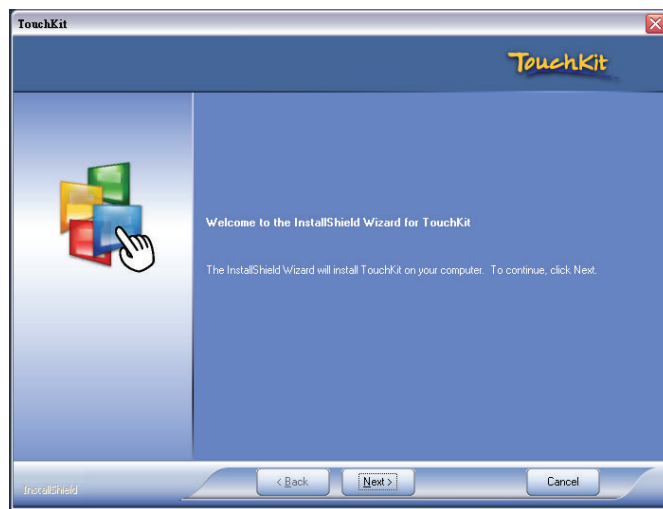
Step 2. Double click the Setup.exe

Step 3. Follow the installation instruction to finish the setup

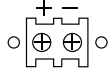
Step 4. After installation, run the TouchKit program & the “4 point calibration”



Please do the initial calibration after the first setup



< 5.6 > Options : DC Power



23" FHD LCD Display

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



*** For DC power option :

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

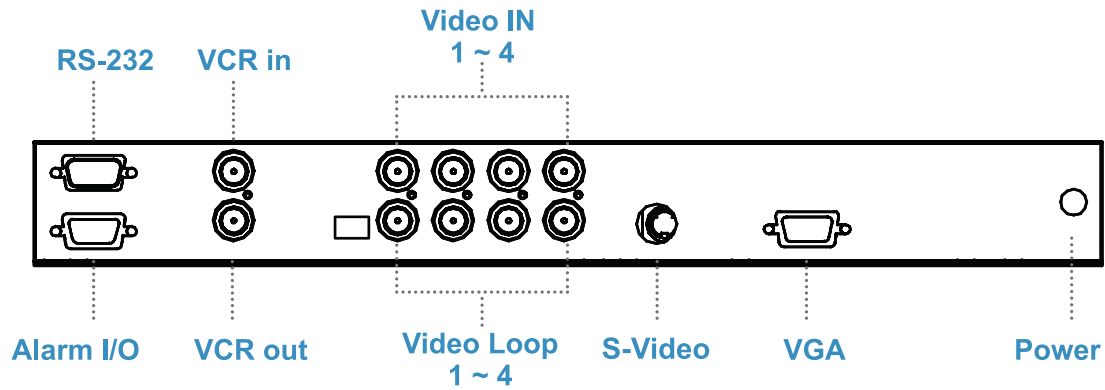
< 5.7 > Options : MIL-type or Lockable Connector

	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 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	Yes
On Screen Display	Yes
Camera Title	8 Character Title
Display Format	2 x Zoom On Playback Yes
	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.

The company reserves the right to modify product specifications without prior notice and assumes no responsibility for any error which may appear in this publication.

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