UltraView

dedicated LCD display solutions

User Manual   16.2" High Resolution 1920 x 1200 LCD

AP-X17
Aluminum front bezel

NAP-X17
Front NEMA4 / IP65

DP-X17
Aluminum front cover

OP-X17
Universal Mounting Open Frame

FC CE RoHS REACH

Designed and manufactured by Austin Hughes

Legal Information

First English printing, June 2023

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 40º Celsius (104º Fahrenheit).

■ When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.

■ When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.

■ Arrange the equipment's power cord in such a way that others won't trip or fall over it.

■ If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.

■ Observe all precautions and warnings attached to the equipment.

■ If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.

■ Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.

■ Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.

■ If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

What the warranty does not cover

■ Any product, on which the serial number has been defaced, modified or removed.

■ Damage, deterioration or malfunction resulting from:

   ☐ Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.

   ☐ Repair or attempted repair by anyone not authorized by us.

   ☐ Any damage of the product due to shipment.

   ☐ Removal or installation of the product.

   ☐ Causes external to the product, such as electric power fluctuation or failure.

   ☐ Use of supplies or parts not meeting our specifications.

   ☐ Normal wear and tear.

   ☐ Any other causes which does not relate to a product defect.

■ Removal, installation, and set-up service charges.

Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

■ Re-position or relocate the receiving antenna.

■ Increase the separation between the equipment and receiver.

■ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Contents

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-X17 / NAP-X17

16.2" High Resolution LCD display X 1

6ft VGA cable X 1
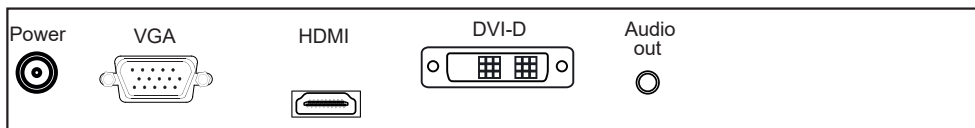
Power cord X 1

Remote controller X 1

Mounting hardware X 1 pack
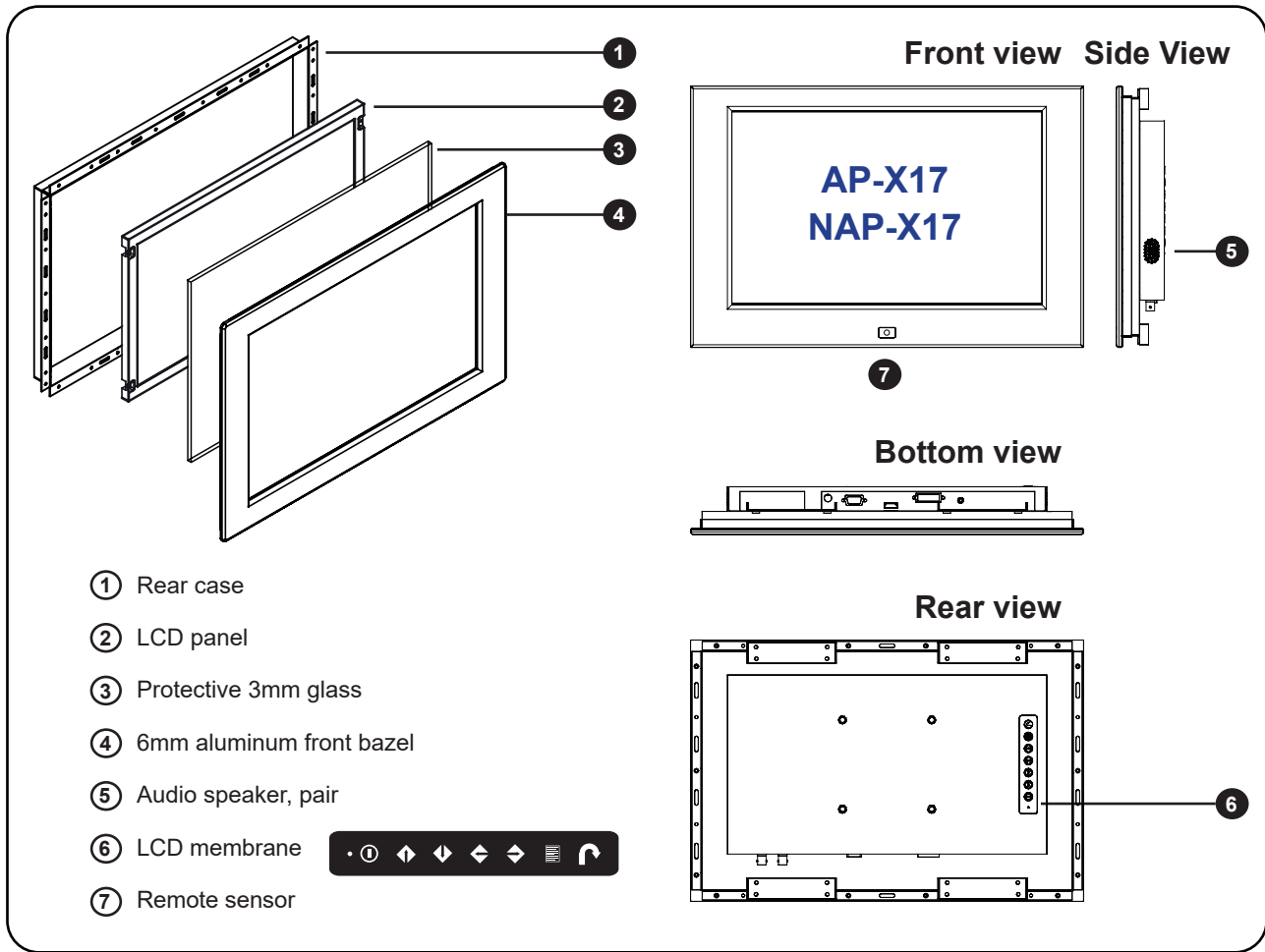
- Mounting bracket x 4 pcs

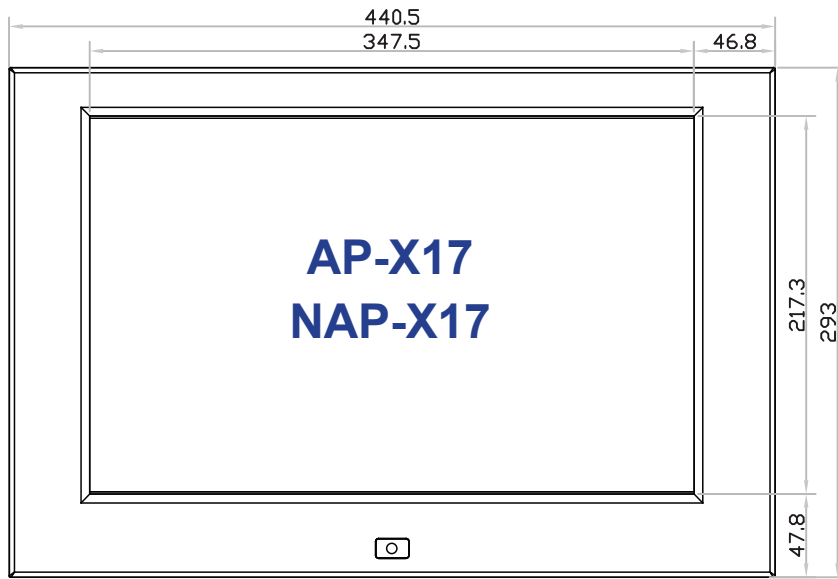- M4* 6mm screw x 8 pcs

- M4* 50mm screw x 8 pcs

Basic I/O

| Power | VGA | HDMI | DVI-D | Audio out |

- **An abundance of input connections that include HDMI, DVI-D, VGA and audio**
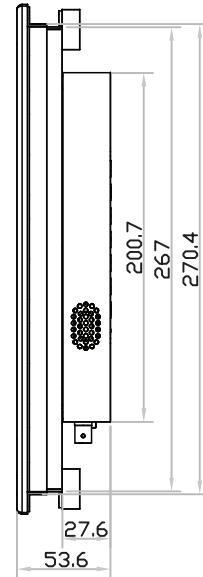- **On-chip Faroudja® DCDi Cinema processing**

< 1.2 > Structure Diagram

Front view **Side View**

AP-X17
NAP-X17

Bottom view

Rear view

1. Rear case
2. LCD panel
3. Protective 3mm glass
4. 6mm aluminum front bazel
5. Audio speaker, pair
6. LCD membrane
7. Remote sensor

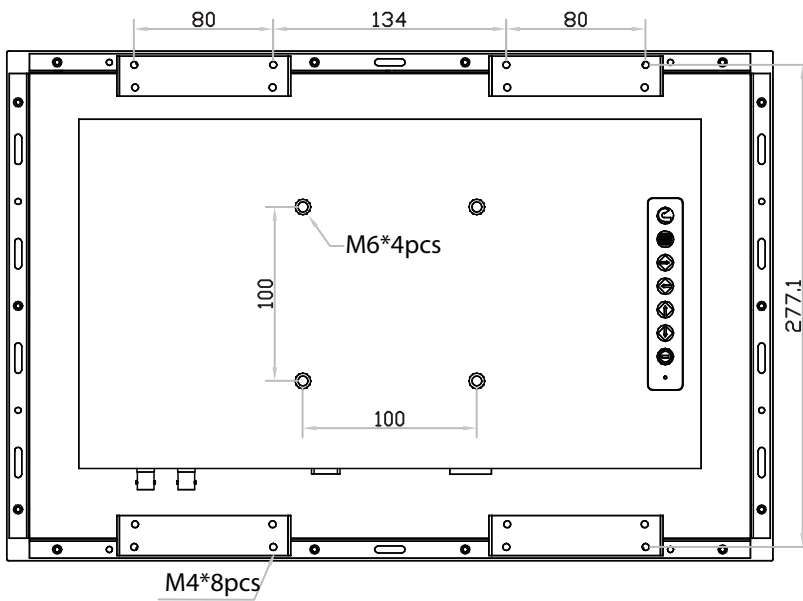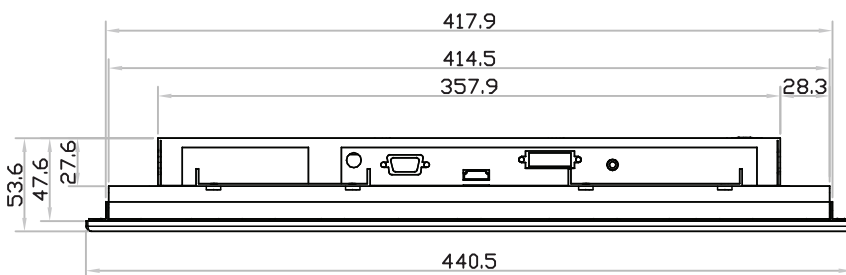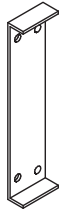| Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
AP-X17	440.5 x 53.6 x 293 mm 17.3 x 2.1 x 11.5 inch	615 x 113 x 523 mm 24.2 x 4.4 x 20.6 inch	4.9 kg 10.8 lb	7.7 kg 16.9 lb
NAP-X17			5.6 kg 12.3 lb	8.4 kg 18.5 lb

Front View

Side View

440.5
347.5
46.8

AP-X17
NAP-X17

217.3
293
47.8

200.7
267
270.4

27.6
53.6

Rear View

80   134   80

M6*4pcs

100

277.1

100

M4*8pcs

UNIT : mm
1mm = 0.03937 inch

Bottom View

417.9
414.5
357.9
28.3

53.6
47.6
27.6

440.5

< 1.3 > Installation
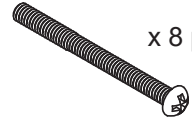## (I) Panel mount

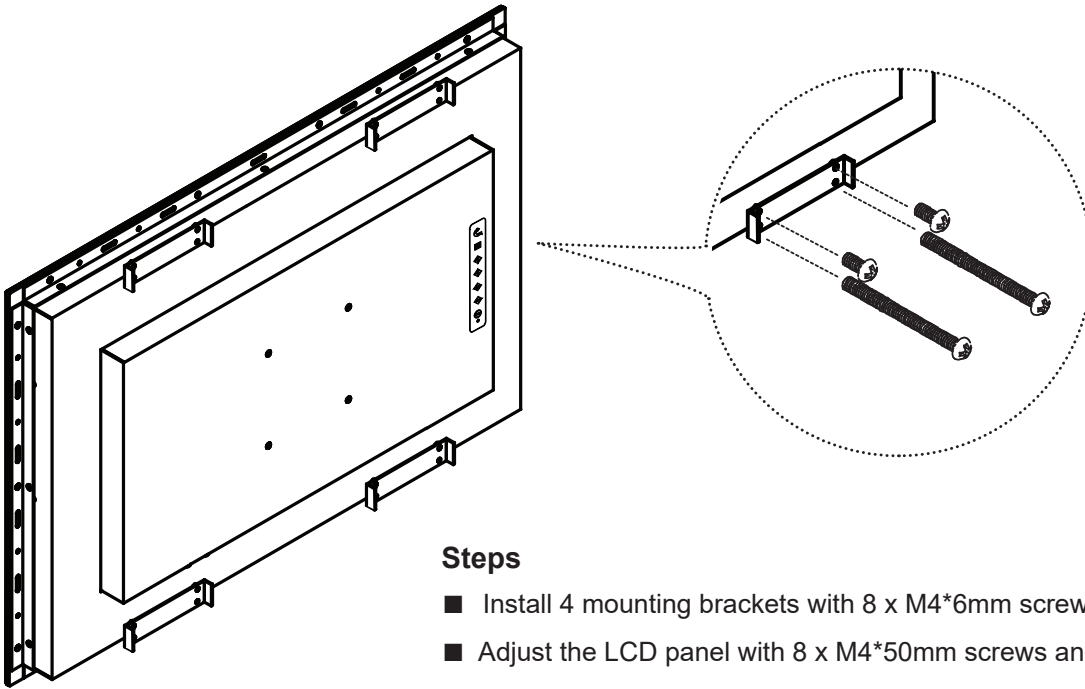**1** Mounting bracket

x 4 pcs

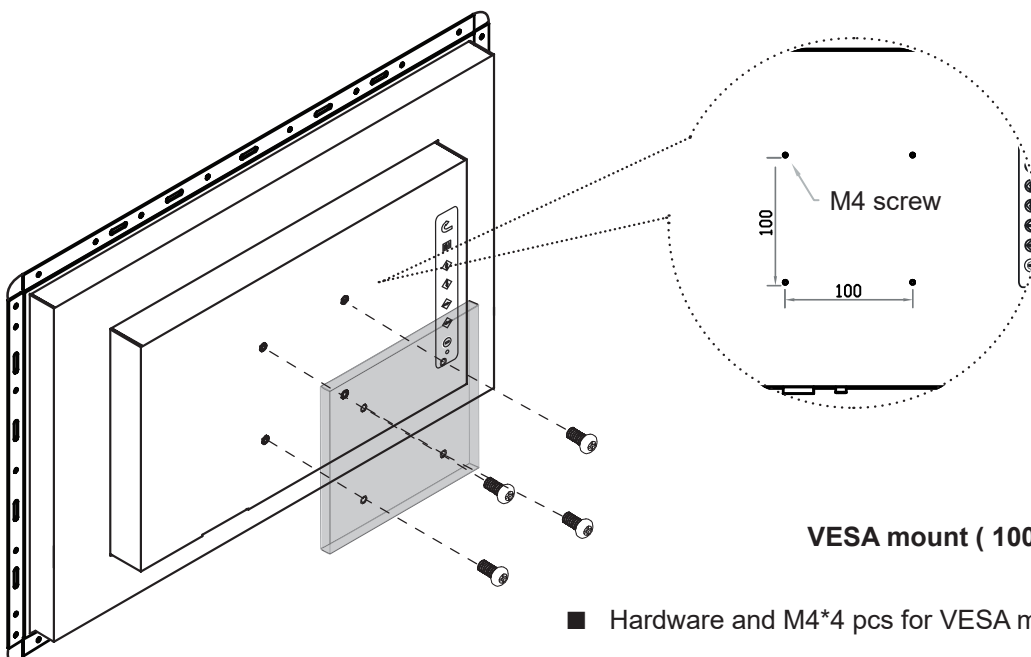**2** M4*6mm screw

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)

M4 screw

100

100

VESA mount (100*100mm)

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

< Part 2 > DP-X17
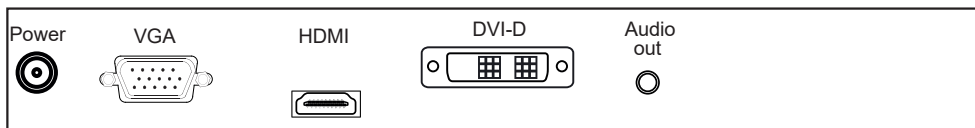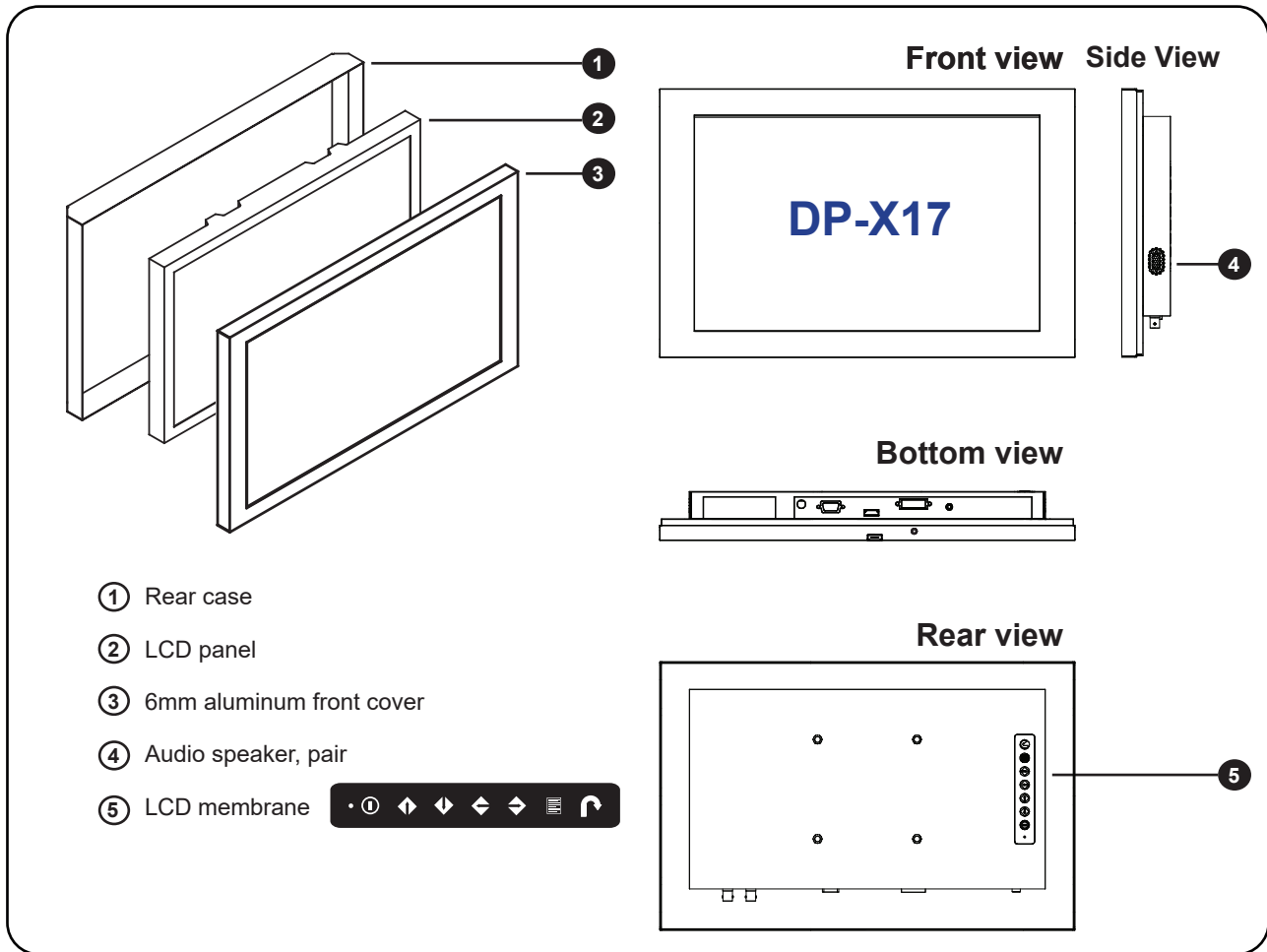## < 2.1 > Package Content

DP-X17

16.2" High Resolution LCD display X 1
6ft VGA cable X 1
Power cord X 1
Remote controller X 1

Basic I/O

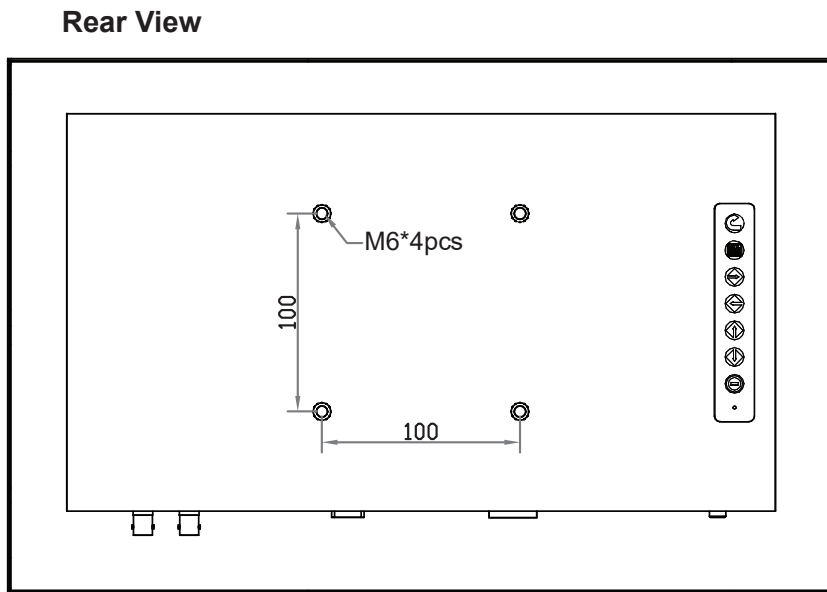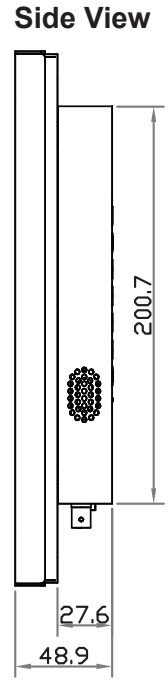Power   VGA   HDMI   DVI-D   Audio out

- **An abundance of input connections that include HDMI, DVI-D, VGA and audio**
- **On-chip Faroudja® DCDi Cinema processing**

< 2.2 > Structure Diagram

Front view **Side View**

DP-X17

Bottom view

Rear view

① Rear case

② LCD panel

③ 6mm aluminum front cover

④ Audio speaker, pair

⑤ LCD membrane

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
DP-X17	417.5 x 48.9 x 270 mm 16.4 x 1.9 x 10.6 inch	615 x 113 x 523 mm 24.2 x 4.4 x 20.6 inch	4.4 kg 9.7 lb	7.1 kg 15.6 lb

Front View

Side View

DP-X17

217.3
270

200.7

347.5
35.2
26.3
417.5

27.6
48.9

Rear View

UNIT : mm
1mm = 0.03937 inch

M6*4pcs

100

100

Bottom View

357.9

48.9
27.6

417.5

< 2.3 > VESA mount Installation

M4 screw

100

100

VESA mount (100*100mm)

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

< Part 3 > OP-X17

< 3.1 > Package Content

OP-X17

16.2" High Resolution LCD display X 1
6ft VGA cable X 1
Power cord X 1
Remote controller X 1

Basic I/O

Power   VGA   HDMI   DVI-D   Audio out

- **An abundance of input connections that include HDMI, DVI-D, VGA and audio**
- **On-chip Faroudja® DCDi Cinema processing**

< 3.2 > Structure Diagram
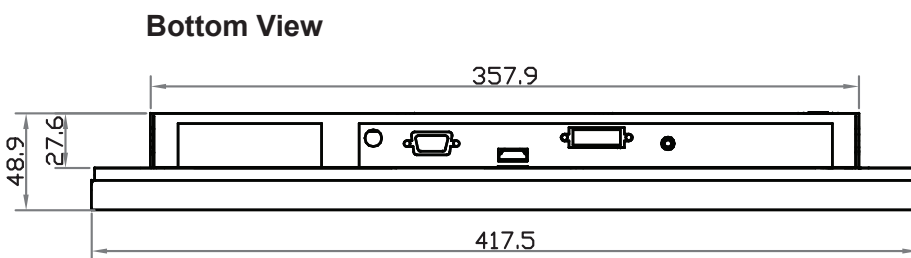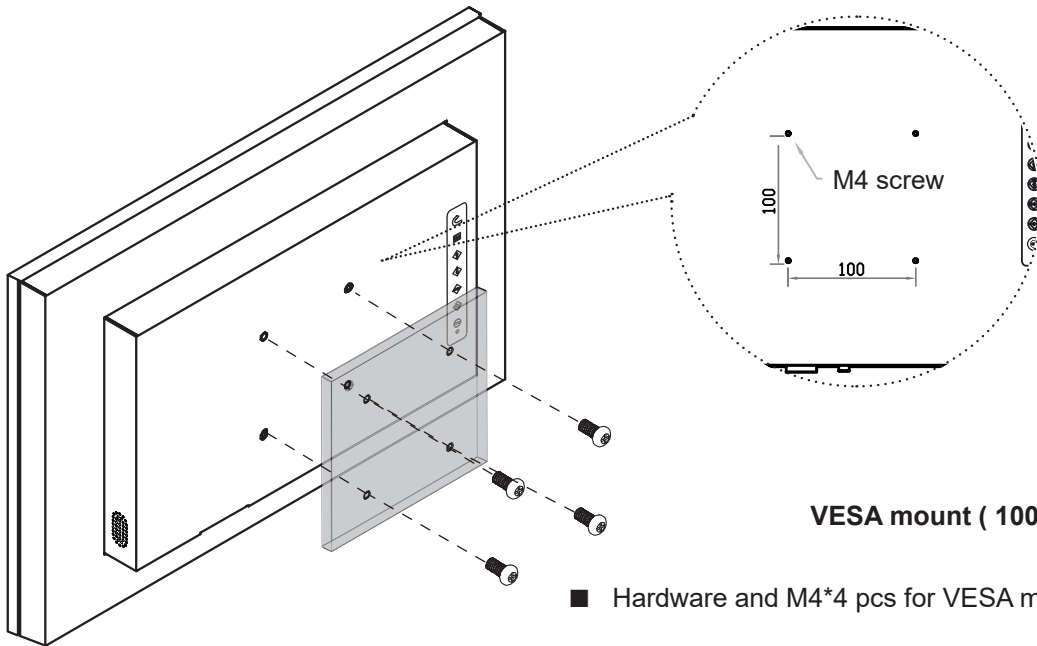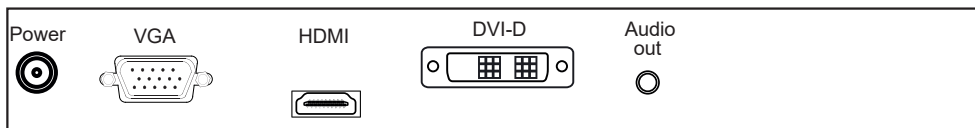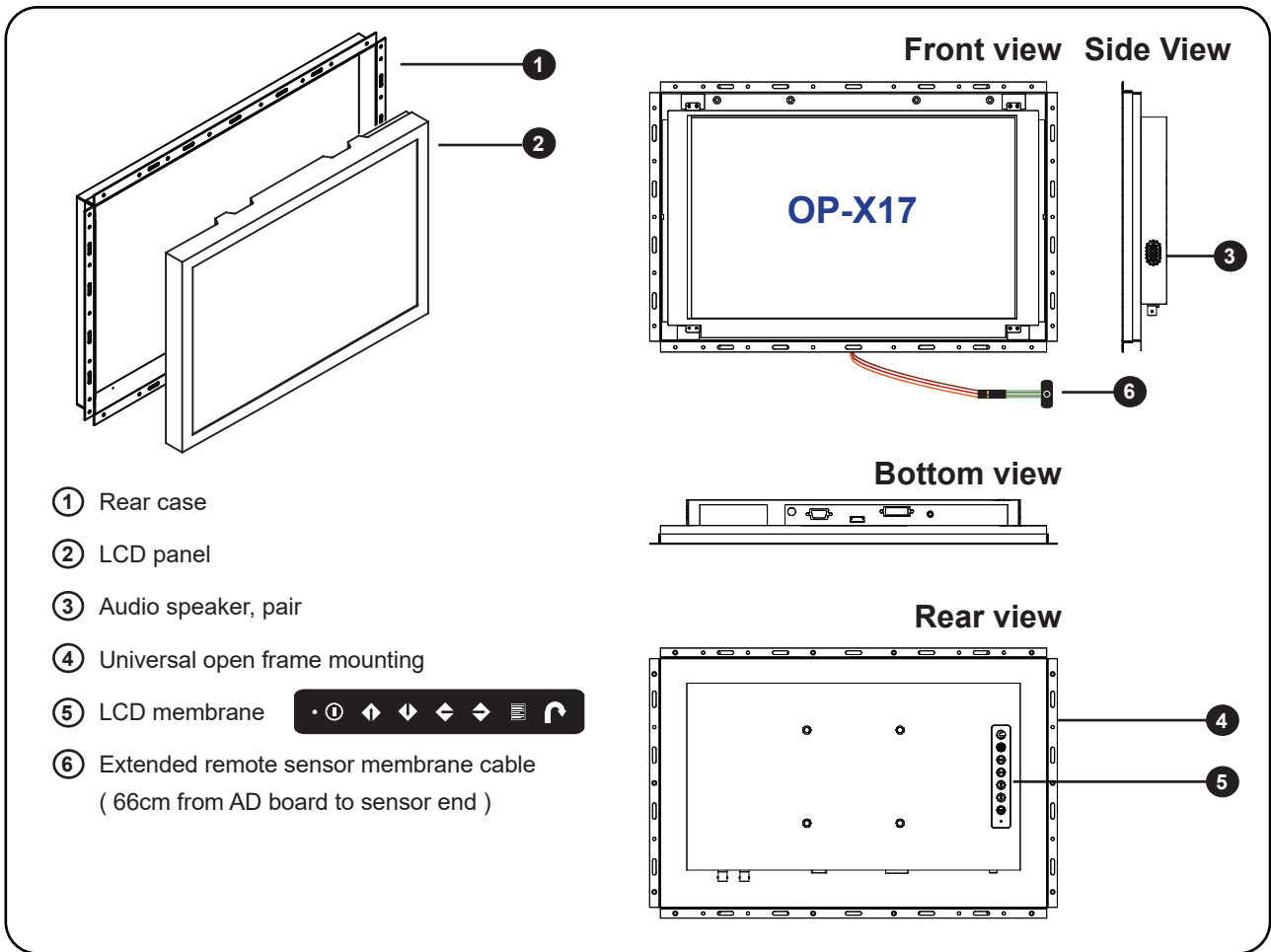
① Rear case

② LCD panel

③ Audio speaker, pair

④ Universal open frame mounting

⑤ LCD membrane

⑥ Extended remote sensor membrane cable
(66cm from AD board to sensor end)

Front view **Side View**

OP-X17

Bottom view

Rear view

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
OP-X17	437.5 x 47.6 x 290 mm 17.2 x 1.9 x 11.4 inch	615 x 113 x 523 mm 24.2 x 4.4 x 20.6 inch	3.8 kg 8.4 lb	6.5 kg 14.3 lb

< 3.2 > Dimension

Front View

Side View

OP-X17

Rear View

M6*4pcs

100

100

UNIT : mm
1mm = 0.03937 inch

Bottom View

417.9
414.5
357.9
28.3
437.5

< 3.3 > Installation

(I) Universal mount

(II) VESA mount (100*100mm)

M4 screw

Hardware and M4*4 pcs for VESA mounting are not provided

< Part 4 >

< 4.1 > Product Specifications

16.2" High Resolution LCD Display

Mechanical Design	AP-X17	NAP-X17	DP-X17	OP-X17
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	-
Panel mount	bundled		-	-

LCD Panel	
Panel Size (diagonal)	16.2-inch Widescreen TFT color LCD
Native resolution	1920 x 1200
Brightness (cd/m²)	300
Contrast Ratio (typ.)	800:1
Colors	16.7M, 8-bit
Viewing Angle (L/R/U/D)	89/89/89/89
Response Time (ms)	30
Dot pitch (mm)	0.191
Display Area (mm)	343.80H x 214.90V
Surface treatment	Anti-glare, Hard-coating
Surface hardness	3H
Backlight Type	LED
MTBF (hrs)	20,000

Video	
Digital DVI	DVI-D single link
HDMI	HDMI 1.4 / HDCP 1.4
Analog VGA	Analog 0.7Vp-p

Audio	
Output Connector Resistance / Power level	3.5mm stereo jack 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. 34W
Power saving mode	Max. 4W
Power button OFF	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 / 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-X17	NAP-X17	DP-X17	OP-X17
Product (W x D x H)				
mm	440.5 x 53.6 x 293		417.5 x 48.9 x 270	437.5 x 47.6 x 290
inch	17.3 x 2.1 x 11.5		16.4 x 1.9 x 10.6	17.2 x 1.9 x 11.4
Packing (W x D x H)				
mm	615 x 113 x 523		615 x 113 x 523	615 x 113 x 523
inch	24.2 x 4.4 x 20.6		24.2 x 4.4 x 20.6	24.2 x 4.4 x 20.6
Net Weight	4.9 kg / 10.8 lb	5.6 kg / 12.3 lb	6.5 kg / 14.3 lb	3.8 kg / 8.4 lb
Gross Weight	7.7 kg / 16.9 lb	8.4 kg / 18.5 lb	8.5 kg / 17 lb	6.5 kg / 14.3 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 1200 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
	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

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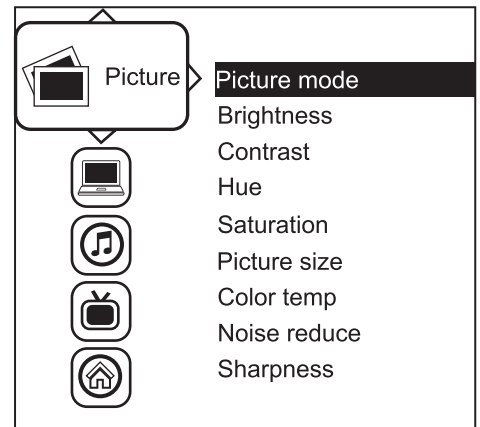
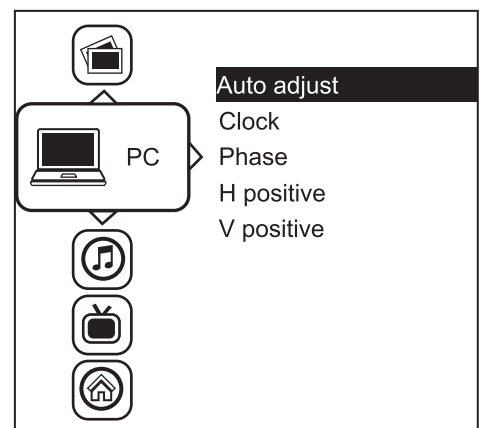| Membrane Switch	Function
⊖	Power on / off LCD
▤	Display the OSD menu
◈ ◈ ◈ ◈	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button ◈ for 5 seconds)
⤴	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)

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

① Picture

Picture mode :	Standard / Vivid / Soft / User mode to choose
Brightness :	Adjust background black level of the screen image
Contrast :	Adjust the difference between the image background (black level) and the foreground (white level)
Hue:	Adjust the screen hue value
Saturation :	Adjust the saturation of the image color
Picture size :	Adjust the image size
Color temp :	Standard / Cool / Warm / User to choose
Noise reduce :	Reduce the noise of the image
Sharpness :	Adjust the image from weak to sharp

Picture

- Picture mode
- Brightness
- Contrast
- Hue
- Saturation
- Picture size
- Color temp
- Noise reduce
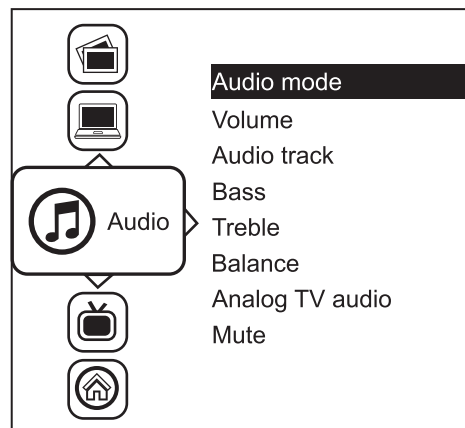- Sharpness

② PC

Auto adjust :	Automatically adjust sizes, centers and fine tunes the video signal to eliminate waviness and distortion.
Clock :	Adjust the clock value
Phase :	Adjust the phase value
H. Position :	Align the screen image left or right
V. Position :	Align the screen image up or down

PC

- Auto adjust
- Clock
- Phase
- H positive
- V positive

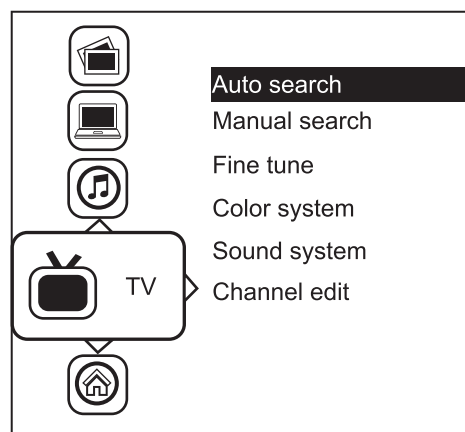# < 4.2 > On-screen Display Operation (OSD)

③ **Audio**

Audio mode :   Movie / Voice / Normal / Music mode to choose

Volume :   Adjust the volume of sound

Bass :   Set the value of bass sound

Treble :   Set the value of treble sound

Balance :   Set the balance value of treble and bass sound

Analog TV audio :   Set the value of analog TV audio sound
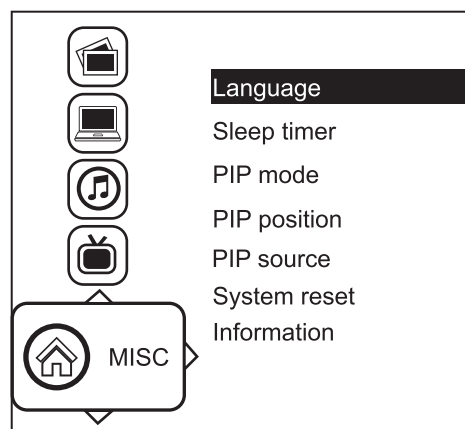
Mute :   Turn off the surrounding sound

Audio	Audio mode
	Volume
	Audio track
	Bass
	Treble
	Balance
	Analog TV audio
	Mute

④ **TV**

Auto search :   Automatically search

Manual search :   Search the TV manual

Fine tune :   Fine tune the TV signal

Color system :   Adjust the TV color

Sound system :   Adjust the TV sound

Channel edit :   Edit the channel

TV	Auto search
	Manual search
	Fine tune
	Color system
	Sound system
	Channel edit

⑤ **MISC**

Language :   Select the language in which the OSD menu is displayed - English

Sleep timer :   Set the off time

PIP mode :   Adjust picture in picture setting

PIP position :   Enter into PIP position

PIP source :   Enter into the Sub source and sound source

System reset :   Return the adjustment back to factory setting
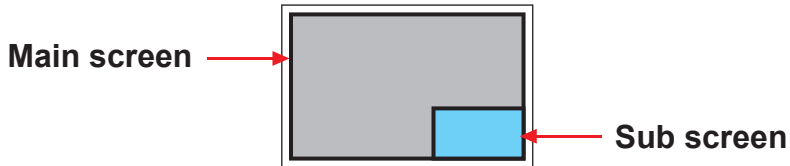
Information :   Select for Help

MISC	Language
	Sleep timer
	PIP mode
	PIP position
	PIP source
	System reset
	Information

< 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 → MISC → PIP Mode → Large / Small / OFF
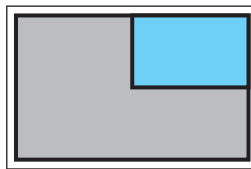
Main screen →
Sub screen

Position

Adjust the position of the Sub screen (top left, bottom left, top right, bottom right)

OSD Menu → MISC → PIP Position → top left / top right / bottom left / bottom right
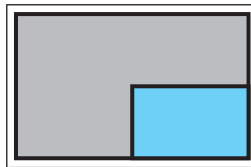
top left

top right

bottom left

bottom right

Size

Adjust the size of the Sub screen (Large / Small)

OSD Menu → MISC → PIP Mode → 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 → MISC → PIP Mode → PBP

Main screen ⟶   ⟵ **Sub screen**

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 → MISC → PIP Source → VGA / S-Video / Composite / DVI / HDMI / SDI / YPbPr / TV

The PIP / PBP is operable in the following table :

Main \ Sub	VGA	S-Video	Composite	DVI-D	HDMI	SDI	YPbPr	TV
VGA	X	O	O	O	O	O	O	O
S-Video	O	X	X	O	O	O	O	X
Composite	O	X	X	O	O	O	O	X
DVI	O	O	O	X	X	O	O	O
HDMI	O	O	O	X	X	O	O	O
SDI	O	O	O	O	O	X	X	O
YPbPr	O	O	O	O	O	X	X	O
TV	O	X	X	O	O	O	O	X

< Part 5 > Option
< 5.1 > Option Table

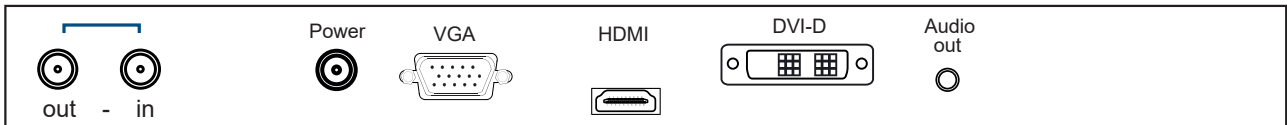| Options	AP / NAP	DP	OP
SDI	✓	✓	✓
MCS multi-display control	✓	✓	✓
Touchscreen	✓	✓	✓
DC Power	✓	✓	✓
MIL-type / lockable connector	✓	✓	✓

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

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   VGA   HDMI   DVI-D   Audio out

out - in

*** For **SDI** option, the AD board comes standard with HDMI, DVI-D, VGA and audio.

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

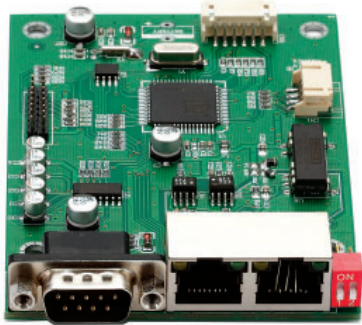| Standard Compliance	Video	SMPTE 425M / 274M / 296M / 125M ITU-R BT.656
	Audio	SMPTE 299M / 272M-C

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 / Asynchronized 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
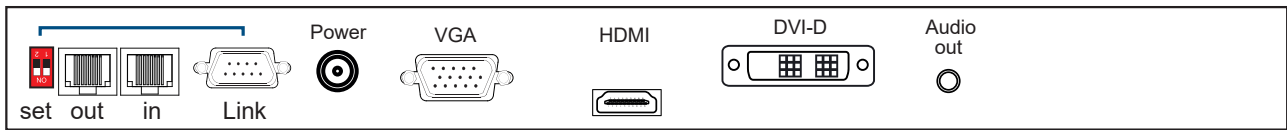
MCS
(Multi-display Control)

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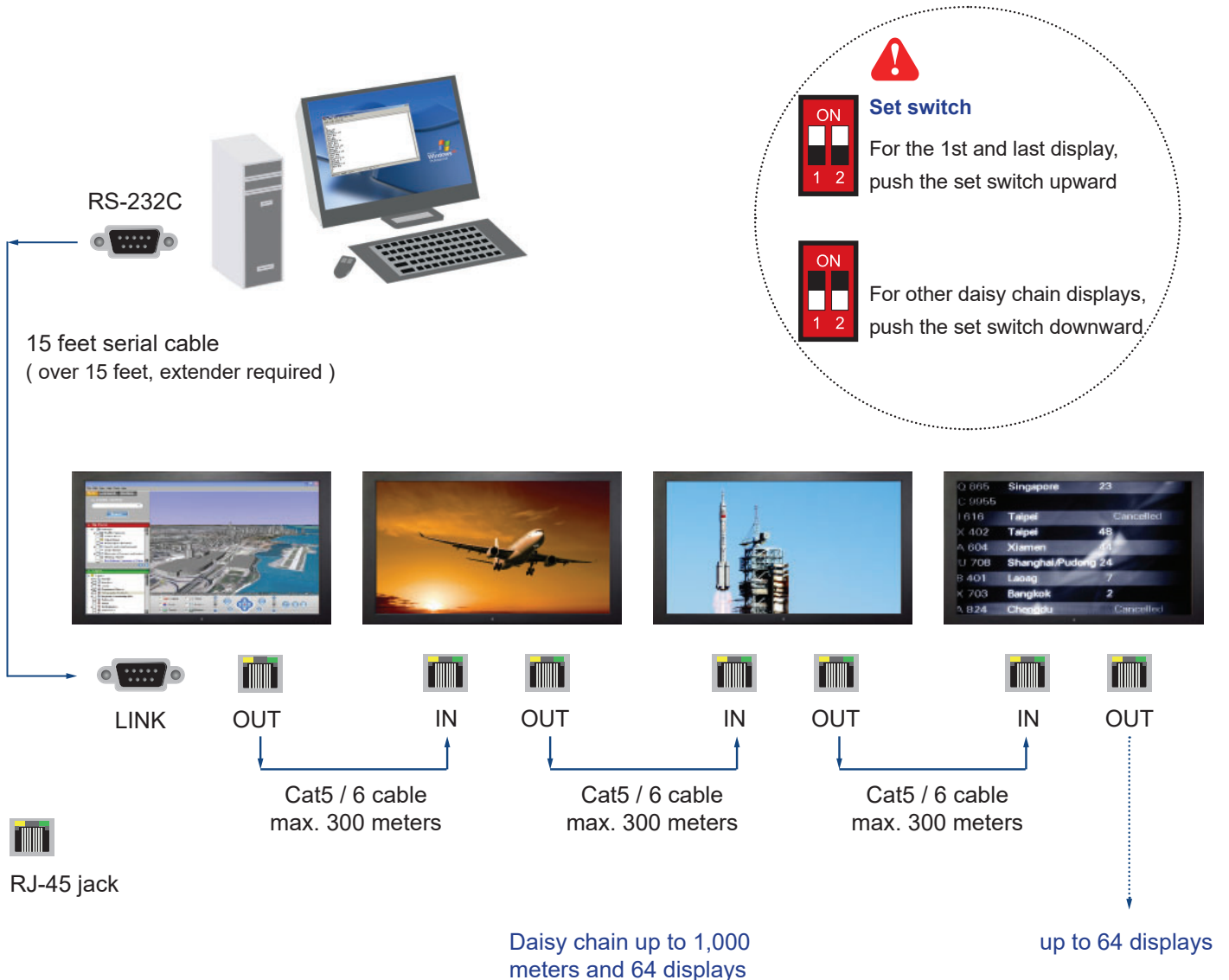
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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

| set | out | in | Link | Power | VGA | HDMI | DVI-D | Audio out |

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

Set switch

For the 1st and last display, push the set switch upward

For other daisy chain displays, push the set switch downward.

RS-232C

15 feet serial cable
(over 15 feet, extender required)

LINK   OUT   IN   OUT   IN   OUT   IN   OUT

Cat5 / 6 cable max. 300 meters

Cat5 / 6 cable max. 300 meters

Cat5 / 6 cable max. 300 meters

RJ-45 jack

Daisy chain up to 1,000 meters and 64 displays

up to 64 displays

X17 USB Touchscreen Specification

Model	TRB e-Resistive
Technology	5-Wire Resistive
Touch Point	Single
Input Type	Finger or Stylus
Resolution	2048 x 2048
Touch Point Accuracy	-
Response Speed	15 ms
Activation Force	≤ 50 g
Surface Hardness	3H
Light Transmission	80% ± 3%
Haze	8% ± 3%
Durability	10 million touches
Top Layer	ITO Film
Bottom Layer	ITO Glass
Thickness	2.2 ± 0.2 mm
Connector	USB Type A
Compatibility	Windows 7 / XP / Vista, Linux

- ■ 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

Power   VGA   DVI-D   Audio out

HDMI

< 5.4 > Options : Touchscreen & driver

TRB 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 :
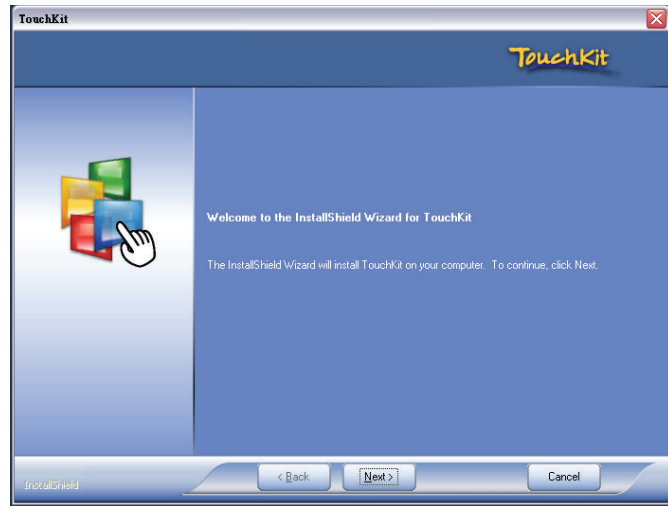http://www.austin-hughes.com/resources/driver/ultraview

Step 2. Double click the Setup.exe

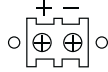**Step 3.** Follow the installation instruction to finish the setup

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** ⚠

< 5.6 > 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.

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