UltraView dedicated professional display solutions

User Manual 10.4" LED-backlit LCD



AP-10 Aluminum front bezel





DP-10 Aluminum front cover



OP-10 Universal Mounting Open Frame

FC (E REACH

Designed and manufactured by Austin Hughes

Legal Information

First English printing, January 2024

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 labelled 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 A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in business, industrial and commercial environments.

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

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

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

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Before Installation

- It is very important to mount the equipment in a suitable cabinet or on a stable surface.
- Make sure the place has a good ventilation, is out of direct sunlight, away from sources of excessive dust, dirt, heat, water, moisture and vibration.

Unpacking

The equipment comes with the standard parts shown in package content. Check and make sure they are included and in good condition. If anything is missing, or damaged, contact the supplier immediately.

How To Clean Your LCD Monitor



Caution :

- To avoid the risk of electric shock, make sure your hands are dry before unplugging your monitor from or plugging your monitor into an electrical outlet.
- When you clean your monitor, do not press down on the LCD screen. Pressing down on the screen can scratch or damage your display. Pressure damage is not covered under warranty.
- Use only cleansers made specifically for cleaning monitors and monitor screens. Cleansers not made to clean monitors and monitor screens can scratch the LCD display or strip off the finish.
- Do not spray any kind of liquid directly onto the screen or case of your monitor. Spraying liquids directly onto the screen or case can cause damage which is not covered under warranty.
- Do not use paper towels or abrasive pads to clean your monitor. Using an abrasive pad or any wood based paper product such as paper towels can scratch your LCD screen.

Cleaning Your Monitor

To clean your LCD safely, please follow these steps:

- ① Disconnect the power cord.
- ② Gently wipe the surface using a clean, dry microfiber cloth. Use as little pressure as possible.

Cleaning Tough Marks and Smudges

To remove tough marks and smudges, please follow these steps:

- ① Disconnect the power cord.
- 2 Spray a small amount of non-abrasive cleanser on a microfiber cloth.
- Caution: Do not spray or apply any liquids directly onto the monitor. Always apply the solution to your microfiber cloth first, not directly on the parts you are cleaning.
- 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-10 / NAP-10



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

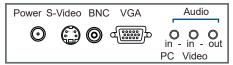
Mounting hardware X 1 pack

- Mounting bracket x 2 pcs
- M4* 6mm screw x 4 pcs
- M4* 50mm screw x 4 pcs

Basic I/O

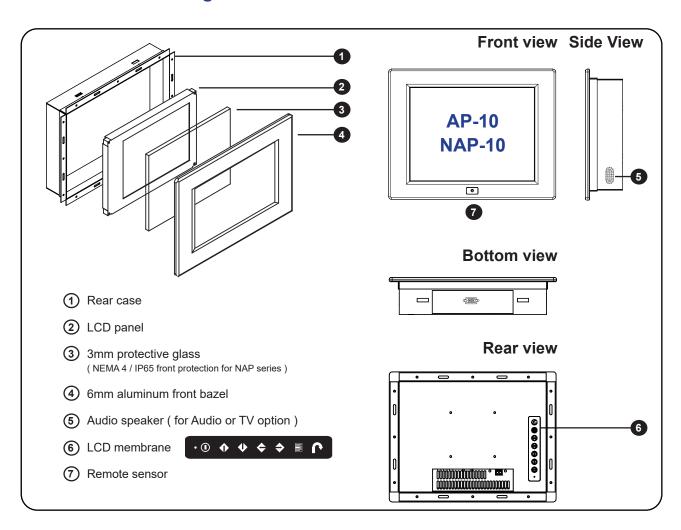


AV1.2 upgrade I/O



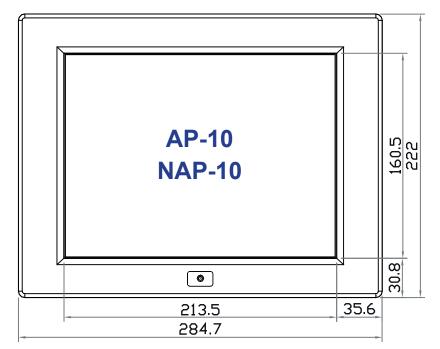
- Options : S-Video + BNC, Audio

< 1.2 > Structure Diagram

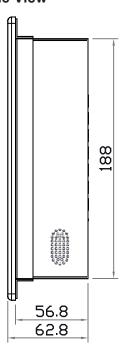


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
AP-10	284.7 x 62.8 x 222 mm	515 x 117 x 429 mm	2.6 kg	4.6 kg
NAP-10	11.2 x 2.5 x 8.7 inch	20.3 x 4.6 x 16.9 inch	5.7 lb	10.1 lb

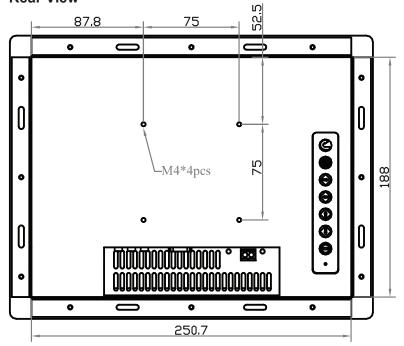
Front View



Side View

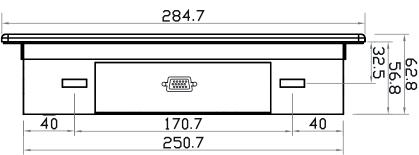


Rear View



UNIT : mm 1mm = 0.03937 inch

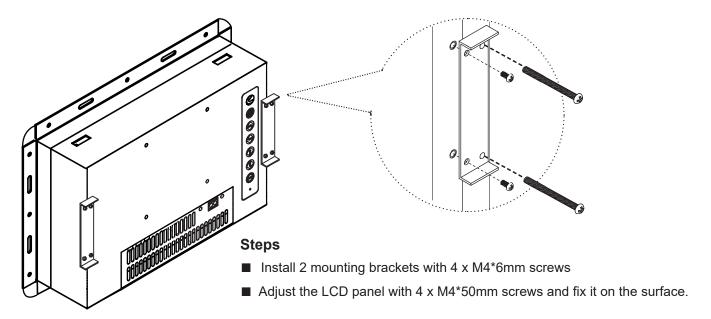
Bottom View



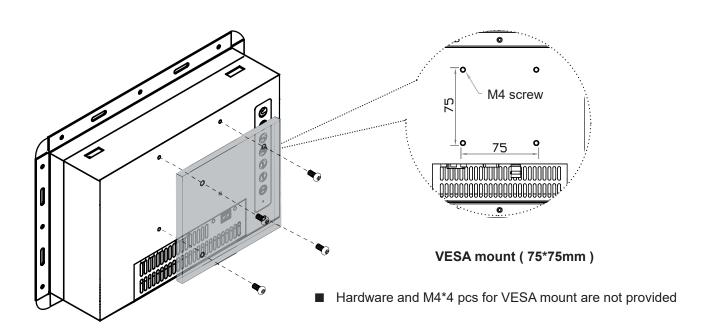
< 1.3 > Installation (I) Panel mount



Hardware set part no. UV-BK#1



(II) **VESA** mount (75*75mm)



< 2.1 > Package Content

DP-10



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

Basic I/O

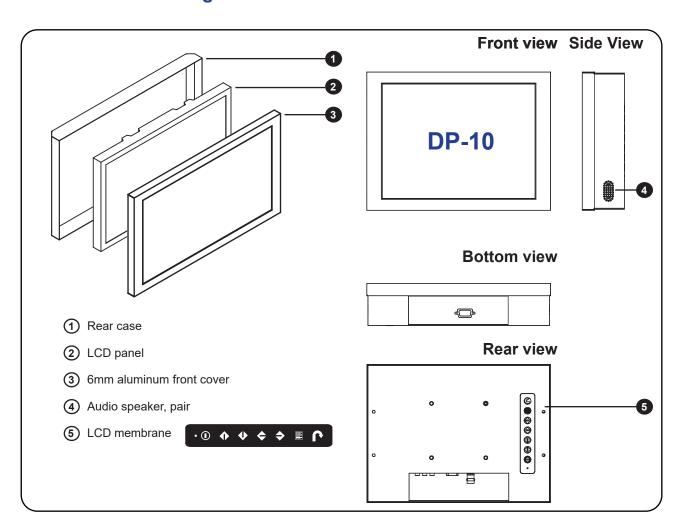


AV1.2 upgrade I/O



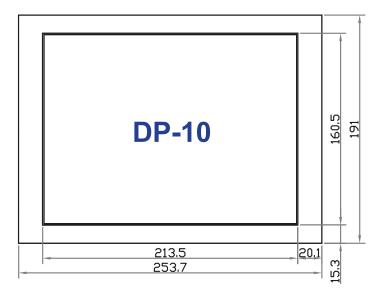
- Options : S-Video + BNC, Audio

< 2.2 > Structure Diagram

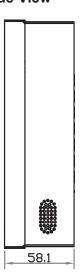


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
DP-10	253.7 x 58.1 x 191 mm	515 x 117 x 429 mm	2.2 kg	4.2 kg
	10 x 2.3 x 7.5 inch	20.3 x 4.6 x 16.9 inch	4.84 lb	9.2 lb

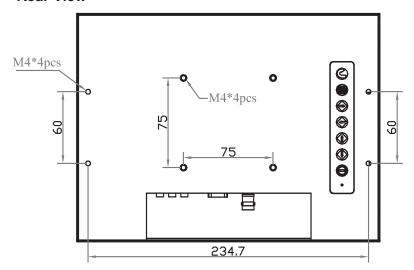
Front View



Side View

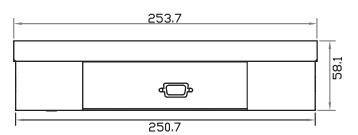


Rear View

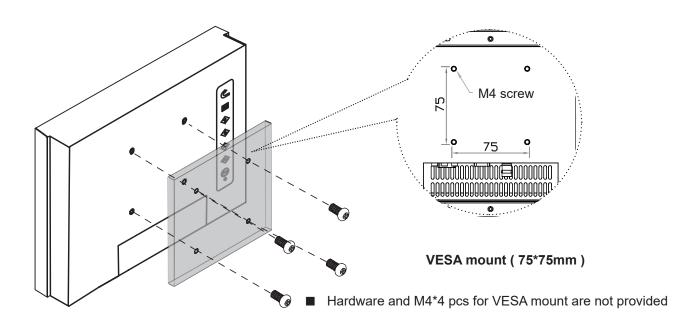


UNIT : mm 1mm = 0.03937 inch

Bottom View

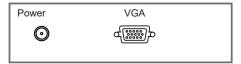


< 2.3 > VESA mount Installation





Basic I/O

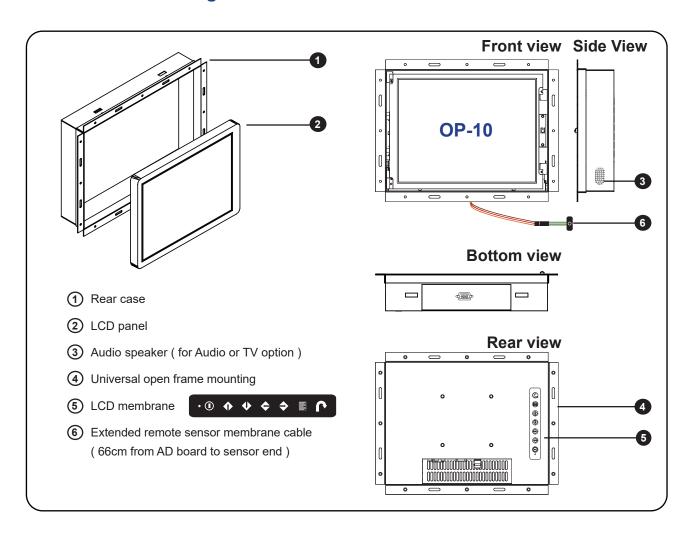


AV1.2 upgrade I/O

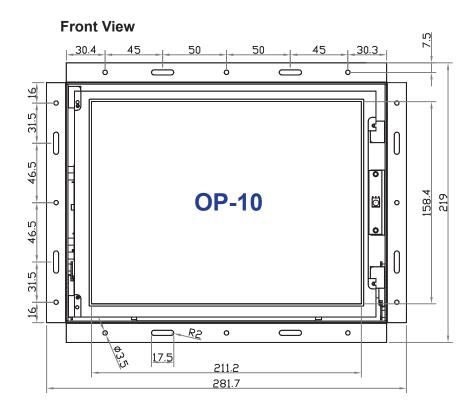


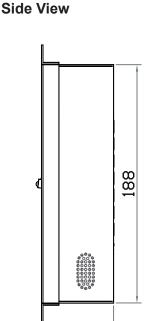
- Options : S-Video + BNC, Audio

< 3.2 > Structure Diagram



Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
OP-10	281.7 x 56.8 x 219 mm	515 x 117 x 429 mm	1.8 kg	3.7 kg
	11.1 x 2.2 x 8.6 inch	20.3 x 4.6 x 16.9 inch	4 lb	8.1 lb





56.8

Rear View

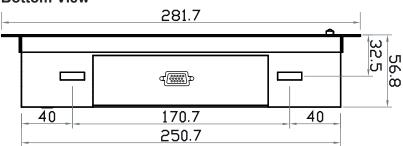
0 0 0 0 52.5 0 **(1)** 75 88 **(** 0 M4*4pcs Θ Θ Ö 87.8

UNIT : mm 1mm = 0.03937 inch

Bottom View

0

0



0

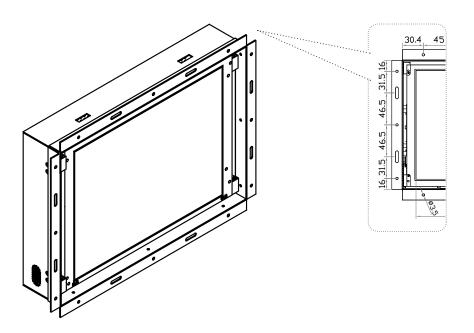
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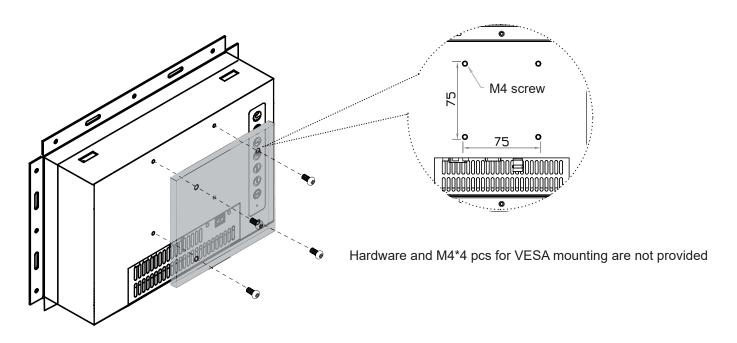
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< 3.3 > Installation

(I) Universal mount



(II) **VESA** mount (**75*75**mm)



< 4.1 > Product Specifications

Mechanical Design	AP-10	NAP-10	DP-10	OP-10
Protection	6mm front bezel	NEMA 4 / IP65	front cover	open frame
Front Panel	Black, RAL 9005			-
Rear Casing	Black, RAL 9005			
VESA mount	75 x 75 mm			
Universal mount	-		-	ready
Desktop stand	option		option	-
Panel mount	bundled		-	-

LED-backlit LCD Panel	
Panel Size (diagonal)	10.4-inch TFT color LCD
Native resolution	800 x 600
Brightness (cd/m ²)	230
Contrast Ratio (typ.)	500:1
Colors	262 K
Viewing Angle (L/R/U/D)	80/80/60/70
Response Time (ms)	35
Dot pitch (mm)	0.213
Display Area (mm)	211.20H x 158.40V
Surface treatment	Anti-glare
Surface hardness	3H
Backlight Type	LED
MTBF (hrs)	30,000

Video	
VGA	Analog 0.7Vp-p
Option Composite (BNC)	NTSC & PAL
	NTSC & PAL

Audio Option	
Input	
Connector	3.5mm stereo jack 30kΩ / 750mV
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	Power			
Input Auto-sensing 100 to 240VAC, 50 / 60Hz				
Consumption:				
Screen ON	Max. 11W			
Power saving mode	Max. 4W			
Power button OFF	Max. 1W			

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

< 4.1 > Product Specifications

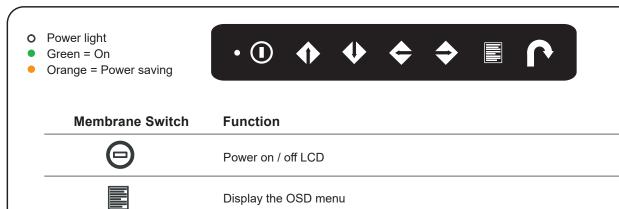
Environmental Conditions				
Operating	Temperature	0 to 55°C degree		
	Humidity	10~90%, non-condensing		
	Altitude	16,000 ft		
Storage /	Temperature	-20 to 60°C degree		
Non-operating	Humidity	5~90%, non-condensing		
	Altitude	40,000 ft		
	Shock	10G acceleration(11ms duration)		
	Vibration	10~300Hz 0.5G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

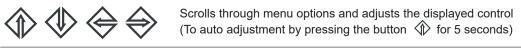
Physical Specification	AP-10	NAP-10	DP-10	OP-10
Product (WxDxH)				
mm	284.7 x 62.8 x 222		253.7 x 58.1 x 191	281.7 x 56.8 x 219
inch	11.2 x 2	2.5 x 8.7	10 x 2.3 x 7.5	11.1 x 2.2 x 8.6
Packing (WxDxH)				
mm	•	17 x 429	515 x 117 x 429	515 x 117 x 429
inch	20.3 x 4	.6 x 16.9	20.3 x 4.6 x 16.9	20.3 x 4.6 x 16.9
Net Weight	2.6 kg / 5.7 lb	2.4 kg / 5.3 lb	2.2 kg / 4.84 lb	1.8 kg / 4 lb
Gross Weight	4.6 kg / 10.1 lb	4.3 kg / 9.5 lb	4.2 kg / 9.2 lb	3.7 kg / 8.1 lb
Chassis color	Dark			
Chassis materials	Aluminum			

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

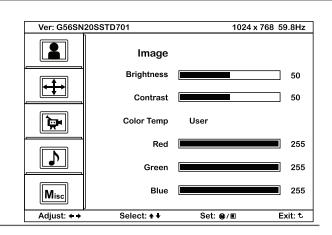
Applicable Format				
VGA Input	PC Signal	800 x 600 x 60 / 72 / 75Hz		
		720 x 400 x 70Hz		
		640 x 480 x 60 / 72 / 75Hz		
		640 x 400 x 70Hz		
		640 x 350 x 70Hz		
	Audio Signal	2ch Linear PCM		

^{*} 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.





Exit the OSD screen
Toggle analog, digital & video connection (DVI-D and video options only)



OSD Configuration Page



Image:

for the brightness, contrast, color temp, red, green, and blue



Geometry:

for the auto adjust, H position, V position, phase and clock



Video:

for the colour, tint, sharpness, noise reduction, DCDi and TV Setup



Audio:

for volume, bass, treble, balance, AVL and mute



Misc:

for the language, OSD position, graphic mode, ratio, reset and timer

< Part 5 > Option

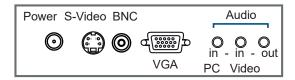
< 5.1 > Option Table

Options	AP / NAP	DP	ОР
S-Video + Composite (BNC)	✓	✓	√
Audio	✓	✓	\checkmark
Touchscreen	✓	✓	\checkmark
DC Power	/	✓	√
TV *	/	/	√



- * Remote Controller
 - (1) AV1.2 upgrade comes with RC-2 remote controller.
 - (2) TV option comes with RC-2 remote controller.

AV (S-Video + Composite, BNC)
 Audio (Built-in Dual Stereo Speakers, 2W x 2)
 (3.5mm audio jacks for audio in & out)



AV1.2 upgrade option comes with RC-2 remote controller x 1 (please refer to P.22)

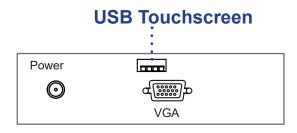
< 5.3 > Options : Touchscreen & driver



10.4" 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	± 10 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	01	
Bottom Layer	Film ITO Glass		Glass	
Thickness	2.2 mm	2.2 ± 0.2 mm	1.8 mm ± 10%	
Connector	USB Type A	USB Type A	USB Type A	
Compatibility	Windows 7	Windows 7 / XP / Vista, Linux		

- Dimension will be changed if Multi-touch 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



< 5.3 > 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



< 5.4 > Options : DC Power

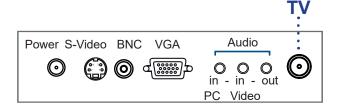


Model	12V	24V	48V	125V
Input rating				
Input voltage:	12-Volt	24-Volt	48-Volt	110-Volt
Input range:	9 ~ 18V	18 ~ 36V	36 ~ 75V	66 ~ 160V
Input current				
- No load	50 mA	50 mA	50 mA	35 mA
- Full load	4950 mA	2450 mA	1220 mA	749 mA
Output rating				
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt
Output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

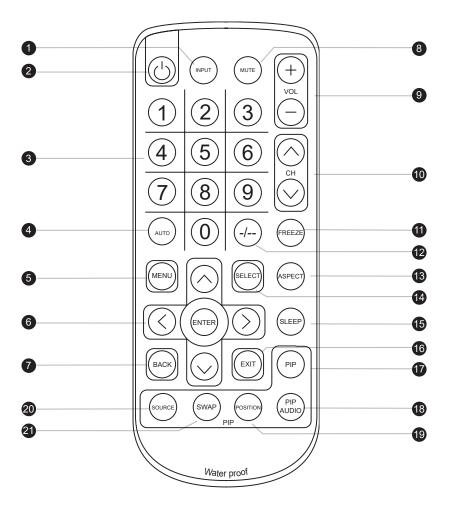




*** For TV option :

- (1)1xRC-2 remote controller included.
- (2) Casing dimensions will be changed.

How to Use RC-2 Remote Controller



_			
<u>①</u>	INPUT	Select the source	
2	ტ	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	
<u>(5)</u>	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 9 9 9 9 9 9 9 9 9 9 9 9 9	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		
<u>17</u>	PIP	Picture in picture	
① ③ ①	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	

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