

# User Manual 17" 4K 3480 x 2160@60Hz LCD



Designed and manufactured by Austin Hughes

### Legal Information

First English printing, July 2022

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

### Safety Instructions

# Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labeled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

#### What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - $\hfill\square$  Repair or attempted repair by anyone not authorized by us.
  - □ Any damage of the product due to shipment.
  - □ Removal or installation of the product.
  - $\hfill\square$  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-K17 / NAP-K17 < 1.1 > Package Content

## AP-K17 / NAP-K17



17" 4K LCD Display X 1 6ft DP cable X 1 Power adapter X 1 Power cord X 1

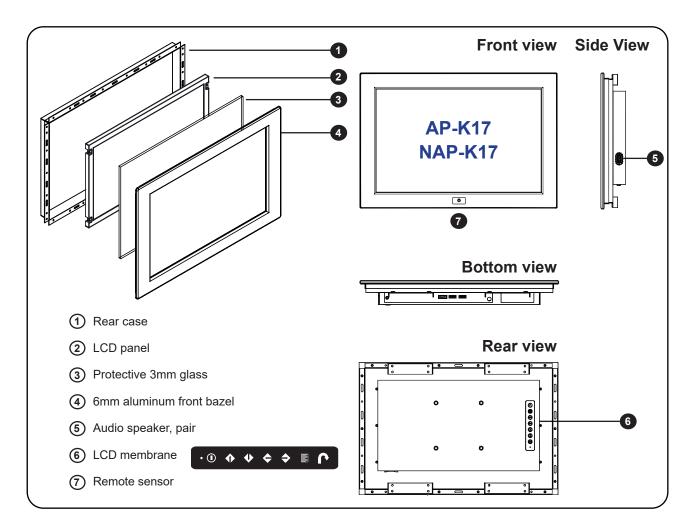
### Mounting hardware X 1 pack

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

#### Basic I/O

Power	HDMI 1.4	HDMI 2.0	DP	Audio out
0			[[]	O

## < 1.2 > Structure Diagram



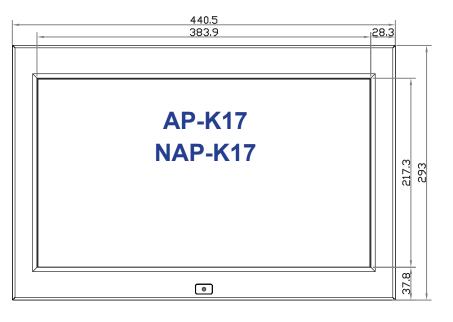
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
AP-K17	440.5 x 54.1 x 293 mm 17.3 x 2.1 x 11.5 inch	615 x 113 x 523 mm	5.2 kg 11.4 lb	8 kg 17.6 lb
NAP-K17		24.2 x 4.4 x 20.6 inch	5.9 kg 13 lb	8.7 kg 19.1 lb

## < 1.2 > Dimension

### 17" 4K LCD Display

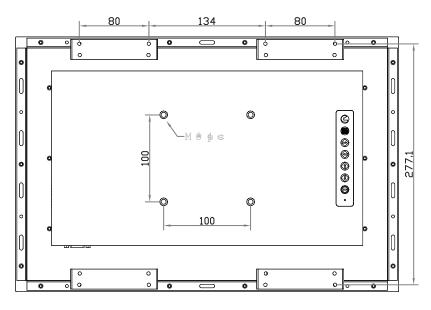
#### **Front View**

Side View



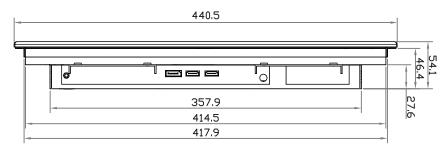


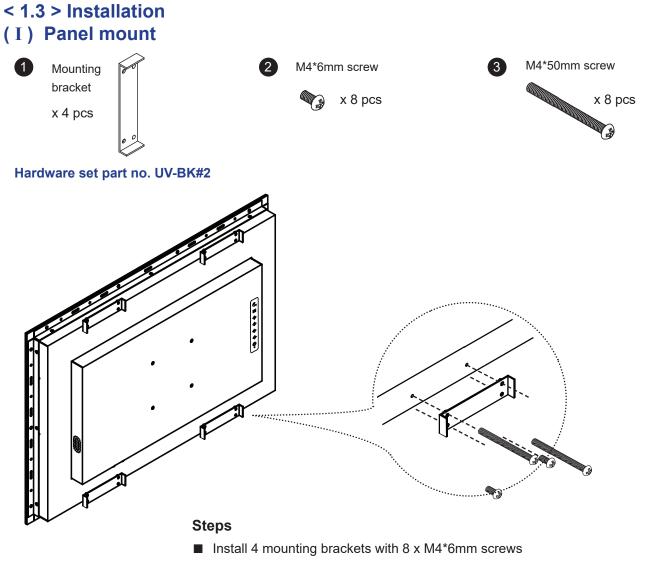
#### **Rear View**



#### UNIT : mm 1mm = 0.03937 inch

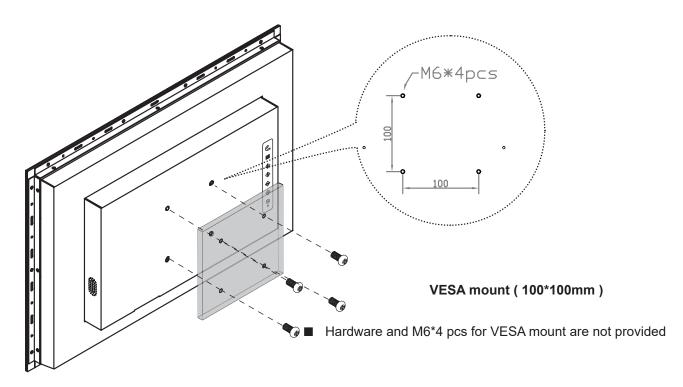
#### **Bottom View**





■ Adjust the LCD panel with 8 x M4\*50mm screws and fix it on the surface.

## (II) VESA mount (100\*100mm)



## < Part 2 > DP-K17 < 2.1 > Package Content

### **DP-K17**

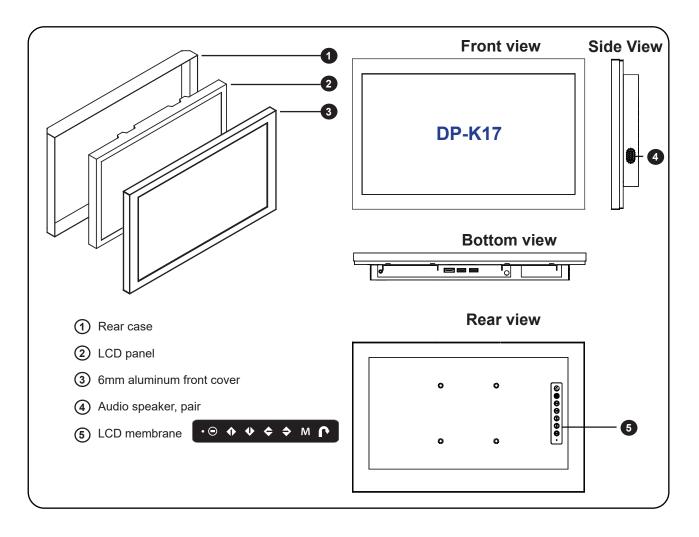


17" 4K LCD Display X 1 6ft DP cable X 1 Power adapter X 1 Power cord X 1

#### Basic I/O

Power	HDMI 1.4	HDMI 2.0	DP	Audio out
0			[Filling]	$\bigcirc$

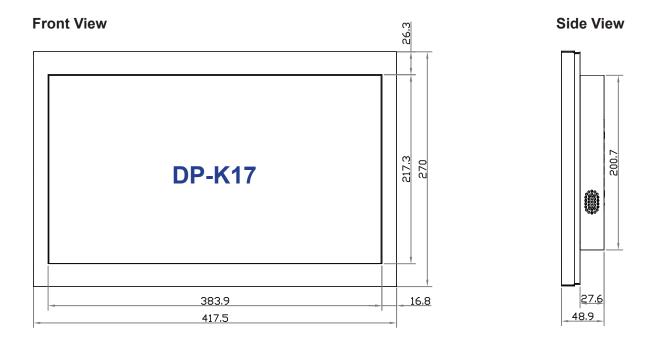
## < 2.2 > Structure Diagram



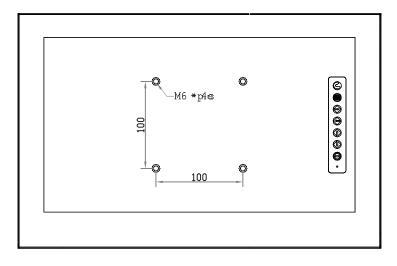
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
DP-K17	417.5 x 48.9 x 270 mm	615 x 113 x 523 mm	4.3 kg	7.1 kg
	16.4 x 1.9 x 10.6 inch	24.2 x 4.4 x 20.6 inch	9.5 lb	15.6 lb

## < 2.2 > Dimension

### 17" 4K LCD Display

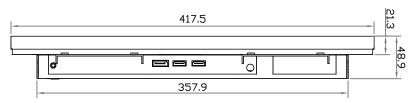


#### **Rear View**

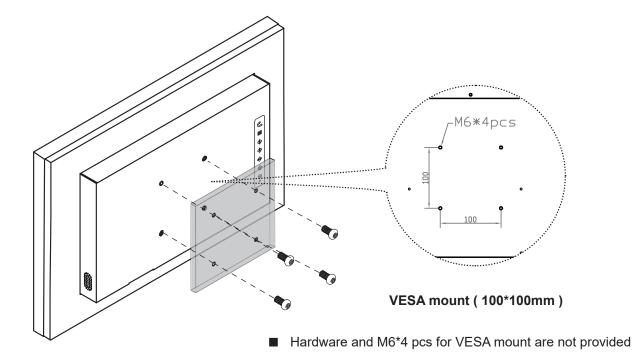


#### UNIT : mm 1mm = 0.03937 inch

#### **Bottom View**



## < 2.3 > VESA Installation



## < Part 3 > OP-17 / HOP-17 < 3.1 > Package Content

### **OP-K17**

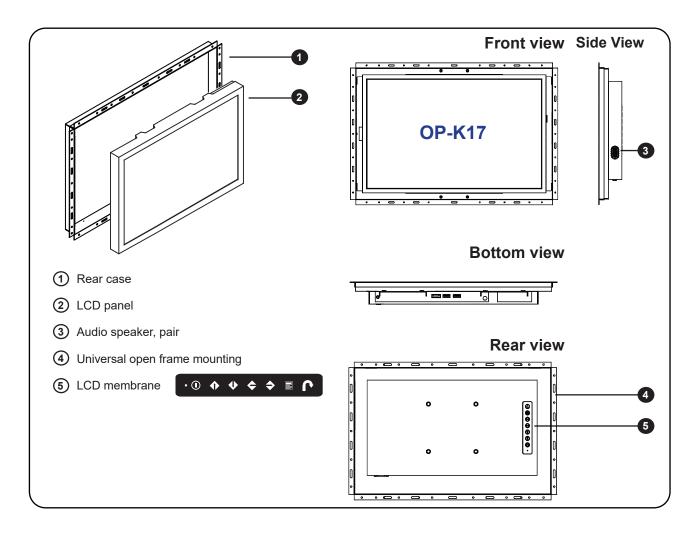


17" 4K LCD Display X 1 6ft DP cable X 1 Power adapter X 1 Power cord X 1

#### Basic I/O

Power	HDMI 1.4	HDMI 2.0	DP	Audi out	0
O			[ <del>]</del>	O	

## < 3.2 > Structure Diagram



Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
OP-K17	437.5 x 47.6 x 290 mm	615 x 113 x 523 mm	3.4 kg	6.2 kg
	17.2 x 1.9 x 11.4 inch	24.2 x 4.4 x 20.6 inch	7.5 lb	13.6 lb

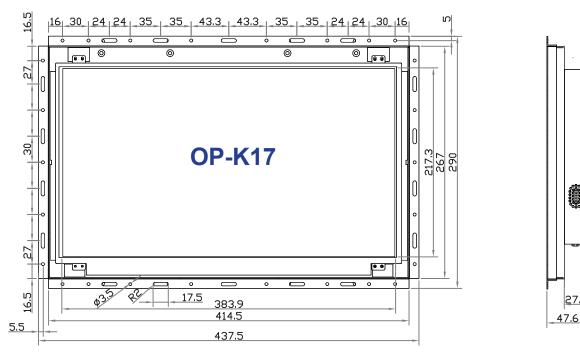
### < 3.2 > Dimension

### 17" 4K LCD Display

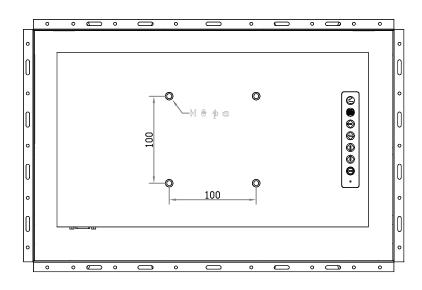
#### **Front View**

**Side View** 

27.6

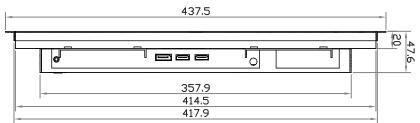


#### **Rear View**



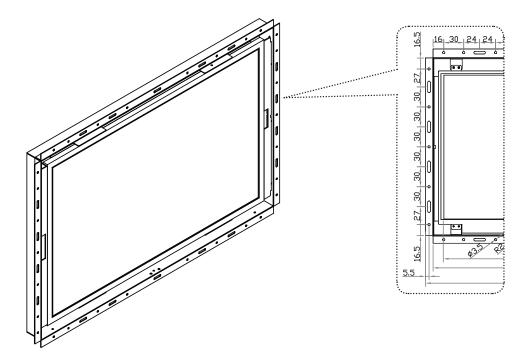
#### UNIT : mm 1mm = 0.03937 inch

#### **Bottom View**

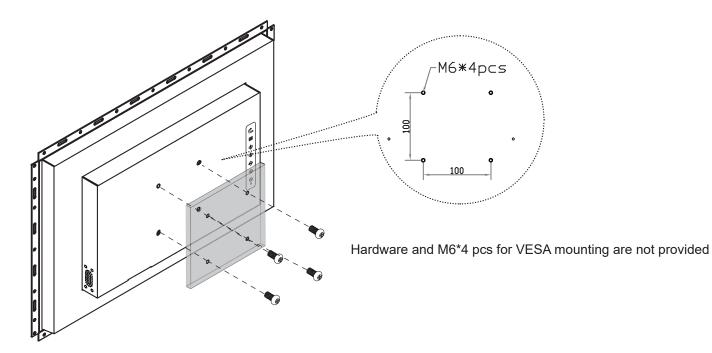


## < 3.3 > Installation

## (I) Universal mount



## (II) VESA mount (100\*100mm)



## < Part 4 >

## < 4.1 > Product Specifications

### 17" 4K LCD Display

Mechanical Design	AP-K17	NAP-K17	DP-K17	OP-K17
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 )	17.3-inch Widescreen TFT color LCD
Native Resolution	3840 x 2160@60Hz
Brightness ( typ. )	400
Contrast Ratio(typ.)	1000:1
Colors	16.7 M, 8-bit
Viewing Angle(L/R/U/D)	89/89/89
Response Time(ms)	16
Dot pitch ( mm )	0.0995
Display Area(mm)	382.12H x 214.94V
Surface treatment	Anti-glare
Surface hardness	ЗН
Backlight Type	LED
MTBF(hrs)	15,000

Video	
Digital Display port	DP 1.2 / HDCP 1.3
HDMI	HDMI 2.0 / HDCP 2.2
	HDMI 1.4 / HDCP 1.4

Audio	
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. 21W
Power saving mode	Max. 2W
Power button OFF	Max. 1W

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

## < 4.1 > Product Specifications

Environmental Cor	nditions	
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

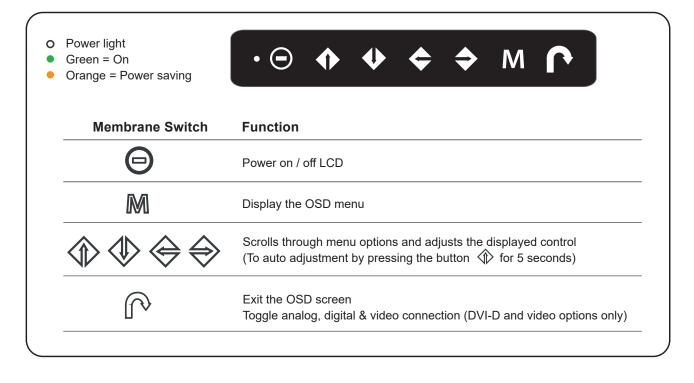
Physical Specification	AP-K17	NAP-K17	DP-K17	OP-K17
Product(W x D x H)		-		
mm	440.5 x 5	4.1 x 293	417.5 x 48.9 x 270	437.5 x 47.6 x 290
inch	17.3 x 2	.1 x 11.5	16.4 x 1.9 x 10.6	17.2 x 1.9 x 11.4
Packing(W x D x H)				
mm		13 x 523	615 x 113 x 523	615 x 113 x 523
inch	24.2 x 4.	.4 x 20.6	24.2 x 4.4 x 20.6	24.2 x 4.4 x 20.6
Net Weight	5.2 kg / 11.4 lb	5.9 kg / 13 lb	4.3 kg / 9.5 lb	3.4 kg / 7.5 lb
Gross Weight	8 kg / 17.6 lb	8.7 kg / 19.1 lb	7.1 kg / 15.6 lb	6.2 kg / 13.6 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		
Display Port Input	PC Signal	3840 x 2160 x 60Hz
		2560 x 1440 x 60Hz
		1920 x 1080 x 60Hz
		1920 x 1200 x 60Hz
		1600 x 1200 x 60Hz
		1280 x 1024 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
HDMI Input	HDMI 2.0 / PC signal	Same as Display port
	HDMI 1.4	3840 x 2160 x 30Hz
		2560 x 1440 x 60Hz
		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

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

### 17" 4K LCD Display



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

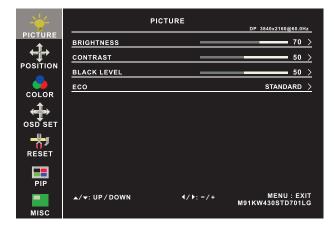
### 1 Picture

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

- Full Screen / 4:3 / 5:4 / Pixel to Pixel

Eco : Screen in power saving mode



	F	POSITION	DP 384	0x2160@60.0I	Ηz
PICTURE	PICTURE SIZE		FULL	SCREEN	>
	DP VERSION			DP 1.2	>
COLOR					
OSD SET					
RESET					
PIP					
MISC	▲/▼: UP/DOWN	<b>∢/</b> ▶: −/+		MENU:EX 30STD7011	

### 3 Color

2

Position

Picture size : Adjust the image size

DP version : Select the DP version

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 Iuminous control	: Control the dynamic brightness

#### COLOR DP 3840x2160@60.0Hz PICTURE COLOR TEMPERATURE USER >←Î→ SHARPNESS 50 > POSITION HUE 50 > COLOR 50 > SATURATION DYNAMIC LUMINOUS CONTROL OFF OSD SET RESET PIP MENU: EXIT M91KW430STD701LG -▲/▼: UP/DOWN <// >: -/+ MISC

### (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 size	: Adjust the screen size - Normal / Small
OSD rotation	: Rotate the screen - 90° / 180° / 270°

	OSE	) SET	DP 3840x2160@60.0Hz
	LANGUAGE		
←	OSD H-POSITION		<b>50</b> >
POSITION	OSD V-POSITION		50 >
	OSD TIME OUT		60 >
COLOR	OSD TRANSPARENCY		0 >
	OSD SIZE		
OSD SET	OSD ROTATION		OFF >
RESET			
PIP			
MISC	▲/▼: UP/DOWN	<b>4/</b> ▶: <b>-</b> /+	MENU:EXIT M91KW430STD701LG

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

### 5 Reset

Reset : Return the adjustment back to factory setting

### 17" 4K LCD Display

		RESET	DP 3840x2160@60.0Hz
PICTURE	RESET		DI JOYOXETOU@00.0112
← <b>}</b> →	RESET		
POSITION			
<b>←</b>			
OSDSET			
RESET			
PIP			
MISC	▲/ <del>▼</del> : UP/DOWN	<b>∢/</b> ▶: −/+	MENU:EXIT M91KW430STD701LG

### 6 PIP

PIP mode	: Enter into PIP / PBP setting - PIP MODE / PBP 2WIN ( Main screen + 1 sub screen ) / PBP 3WIN ( Main screen + 2 sub screen ) / PBP 4WIN ( Main screen + 3 sub screen ) Select the signal input of each sub screen
PIP size	: Adjust the size of the Sub screen - Small / Medium / Large / Huge
PIP position	: Adjust the position of the Sub screen - Top Left / Top Right / Bottom Left / Bottom Right
Swap	: Swap the input signal of PIP / PBP sub screen

		PIP	DP 3840x2160@60.	0Hz
	PIP MODE		PIP MODE	>
←₽→	WINDOW2 INPUT		HDMI2	<u>&gt;</u>
POSITION	WINDOW3 INPUT		HDMI1	>
	WINDOW4 INPUT		DP	>
COLOR	PIP SIZE		MEDIUM	>
<b>*</b>	PIP POSITION		TOP LEFT	>
	SWAP			
RESET				
PIP				
MISC	▲/▼: UP/DOWN	<b>∢/</b> ▶: −/+	MENU:E M91KW430STD701	

### ⑦ MISC

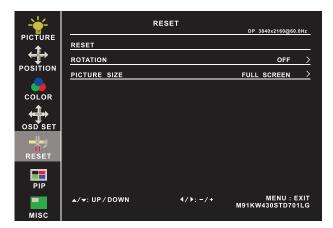
Signal source	e : Select the signal source - DP / HDMI1 / HDMI2
Mute	: Turn off the surrounding sound
Audio in	: Auto / Line in / DP
Volume	: Adjust the volume of sound
Sleep mode	: Set the off time - 10 min / 20 min / 30 min / 50 min / 60 min / 120 min / 240 min

		MISC	DP 3840x2160@60.0Hz
	SIGNAL SOURCE		DP >
←¦→	MUTE		OFF >
POSITION	AUDIO IN		AUTO >
	VOLUME	-	<b>8</b> >
	SLEEP MODE		OFF >
OSD SET			
RESET			
PIP			
MISC	▲/ <del>▼</del> : UP/DOWN	<b>∢/</b> ▶: -/+	MENU:EXIT M91KW430STD701LG

### **Options on Reset page**

Rotation	: Rotate the image in Full screen or 1:1
	- 90° / 180° / 270°

Picture size : Adjust the image size in Full screen or 1:1

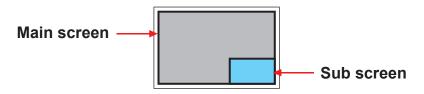


## < 4.3 > How to Use Picture In Picture (PIP) / Picture By Picture (PBP)

### < 4.3.1 > Picture in Picture ( PIP )

#### Mode

Display the Sub screen in the Main screen. OSD Menu  $\rightarrow$  MISC  $\rightarrow$  PIP Mode  $\rightarrow$  Large / Small / OFF



#### Position

Adjust the position of the Sub screen (top left, bottom left, top right, bottom right) OSD Menu  $\rightarrow$  MISC  $\rightarrow$  PIP Position  $\rightarrow$  top left / top right / bottom left / bottom right



top left



bottom left



top right



bottom right

#### Size

Adjust the size of the Sub screen (Large / Small ) OSD Menu  $\rightarrow$  MISC  $\rightarrow$  PIP Mode  $\rightarrow$  Large / Small

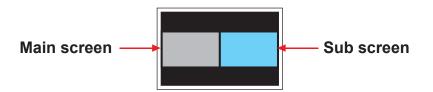
#### Size of Sub screen

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  $\rightarrow$  MISC  $\rightarrow$  PIP Mode  $\rightarrow$  PBP



#### 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  $\rightarrow$  MISC  $\rightarrow$  PIP Source  $\rightarrow$  HDMI / SDI

#### The PIP / PBP is operable in the following table :

Sub Main	HDMI	SDI
номі	х	0
SDI	0	х

# < Part 5 > Options

## < 5.1 > Option Table

Options	AP / NAP	DP	OP
Remote controller	✓	$\checkmark$	√
SDI	✓	✓	✓
MCS multi-screen control	✓	✓	$\checkmark$
Touchscreen	✓	$\checkmark$	$\checkmark$
MIL-type / lockable connector	✓	$\checkmark$	$\checkmark$
DC Power	✓	$\checkmark$	$\checkmark$

## < 5.2 > Remote Controller (RC-2)

1		8
2—		
		2) (3) (-)
3	(4) (5	
	$\overline{7}$	
	(7) (8	<u>3) (9) (~)</u>
4—	AUTO (	
-		
5—		SELECT ASPECT 13
6		
•		
7	BACK	
20		
21		
		Water proof
(1)	INPUT	Select the source
2	Ċ	Switches on or off the TV
1 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 /
۲		Increase the setting value or enter to the select item setting Enter to the select item settings or excude the setting
$\overline{\mathcal{O}}$	BACK	Back to previous value
<u>8</u>	MUTE	Turn on or off the speaker
<u> </u>	Vol + / -	Increase or decrease the speaker volume
<u>0</u>	CH + / -	For TV model only, increase or decrease the channel number
0000000000000	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

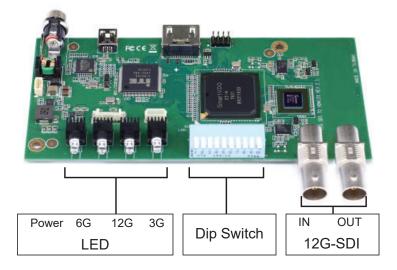
	PIP functions	
17	PIP	Picture in picture
18	PIP AUDIO	To set the audio of in PIP mode
19	POSITION	To set the screen position in PIP mode
20	SOURCE	PIP Source
2	SWAP	Swap screen in PIP mode

\_\_\_\_ \_\_\_\_\_

## < 5.3 > Options : 12G / 4K60 / SD-SDI

Austin Hughes' SDI input is an ideal solution for the broadcast-grade video and high resolution CCTV market.

Designed for use with displays, a SDI input module can support up to 3840 x 2160p @60Hz resolution without using additional space or power and it comes standard with a 2-year warranty.



#### **Product Specifications**

Compatible Video Format		
12G-SDI IN	3840 x 2160p	@60 / 50fps
6G-SDI IN	3840 x 2160p	@30 / 25 / 24fps
3G-SDI IN	1920 x 1080p	@60 / 50fps
	1920 x 1080p	@30 / 25 / 24fps
HD-SDI IN	1920 x 1080i 1280 x 720p	@60 / 50fps @60 / 50fps
	6G-SDI IN	6G-SDI IN         3840 x 2160p           3G-SDI IN         1920 x 1080p           HD-SDI IN         1920 x 1080p

#### **Dip Switch Mode**

Output Color	4	5
YUV444	OFF	OFF
YUV422	OFF	ON
RGB444	ON	OFF
YUV420	ON	ON

EQ	6	7
Auto	OFF	OFF
Disable	OFF	ON
Enable	ON	OFF

Out1 Cable length 8		
Short OFF		
Long	ON	



## < 5.4 > Options : 3G / HD / SD-SDI input

### 17" 4K LCD Display



SDI

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.

in - out	Power O	HDMI 1.4 HDMI 2.0 DP	Audio out ©
----------	------------	----------------------	-------------------

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

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
	HD-SDI SD-SDI	1080p           1080i           720p           HD-SDI         1080p           1080i           720p           SD-SDI         480i

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

## < 5.5 > Options : MCS

## MCS ( Multi-display Control )

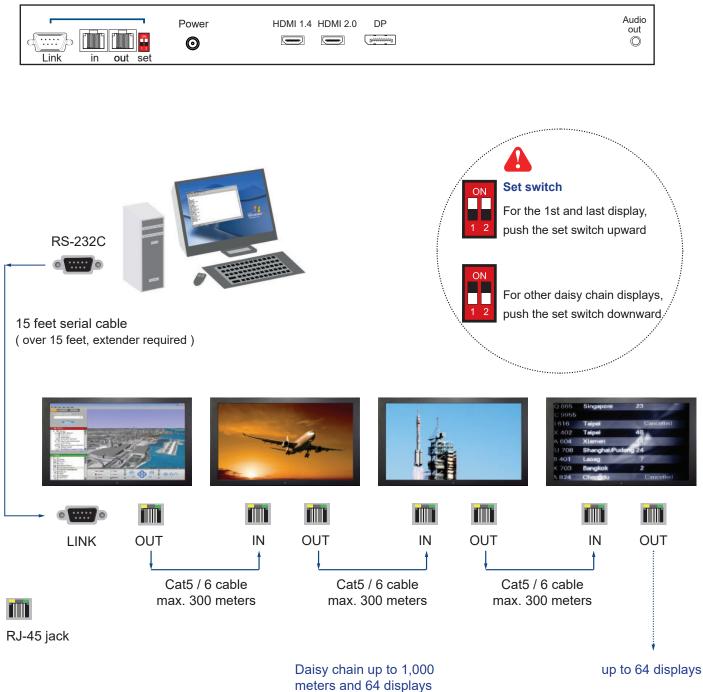


### MCS

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.



# < 5.6 > Options : Touchscreen & driver



Model	TPC-10 Multi-touch	TRB e-Resistive	
Technology	Projected Capacitive 5-Wire Resistive		
Touch Point	10	Single	
Input Type	Finger or Capacitive Stylus	Finger or Stylus	
Resolution	4096 x 4096	2048 x 2048	
Touch Point Accuracy	± 2 mm	-	
Response Speed	< 5 ms	15 ms	
Activation Force	< 5 g	≤ 50 g	
Surface Hardness	6H	3Н	
Light Transmission	> 85%	80% ± 3%	
Haze	3% ↓	8% ± 3%	
Durability	ity 50 million touches 10 million touch		
Top Layer	3 mm Glass ITO F		
Bottom Layer	er 0.7 mm Sensor Glass ITO Gla		
Thickness	3.9 ± 0.1 mm 2.2 ± 0.2 mm		
Connector	USB USB Type A		
Compatibility	Linux / Android / Windows / Mac	Windows 7 / XP / Vista, Linux	

### K17" USB Touchscreen Specification

- 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

## USB Touchscreen



# < 5.5 > Options : Touchscreen & driver

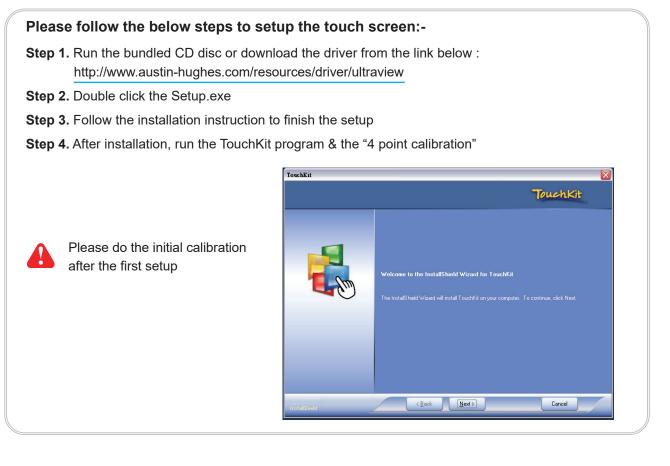


### **TPC-10** Driver



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** Driver



# < 5.7 > Options : DC Power ○⊕⊕○



### 17" 4K 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	7183 mA	3551 mA	1755 mA	749 mA
Output rating				
Output voltage:	12-Volt	12-Volt	12-Volt	12-Volt
Output current:	6.25A	6.25A	6.25A	6.25A
Efficiency	87%	88%	89%	91%

#### **\*\*\*** For DC power option :

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

## < 5.8 > Options : MIL-type or Lockable Connector

	Input	Part	10.	MIL Standard
MIL - type Connector	DC Power *** ( Male )	MS3470W8-33P		MIL - DTL - 26482
	VGA *** ( Male )	MS3470W14-15P	<b>F</b>	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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