

User Manual 28" 4K 3840 x 2160@60Hz LCD

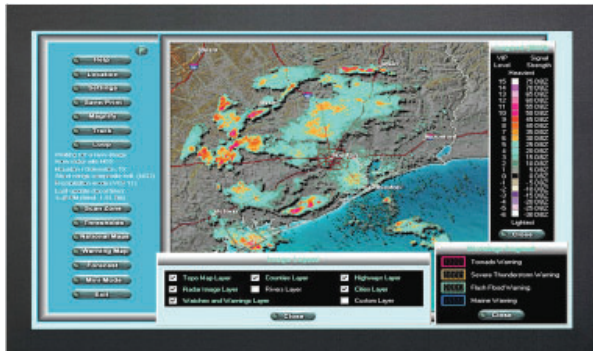


AP-K28

Aluminum front bezel

NAP-K28

Front NEMA4 / IP65



DP-K28

Aluminum Front Panel



OP-K28

Universal Open Frame



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 :

- 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.

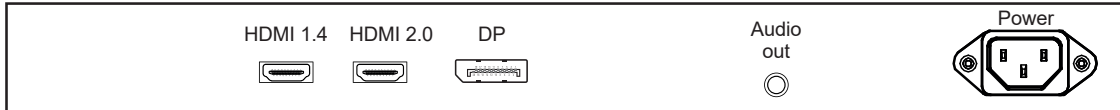
- ③ Gently wipe the surface. Use as little pressure as possible.
- ④ Wait until your monitor is completely dry before plugging it in and powering it up.

AP-K28 / NAP-K28

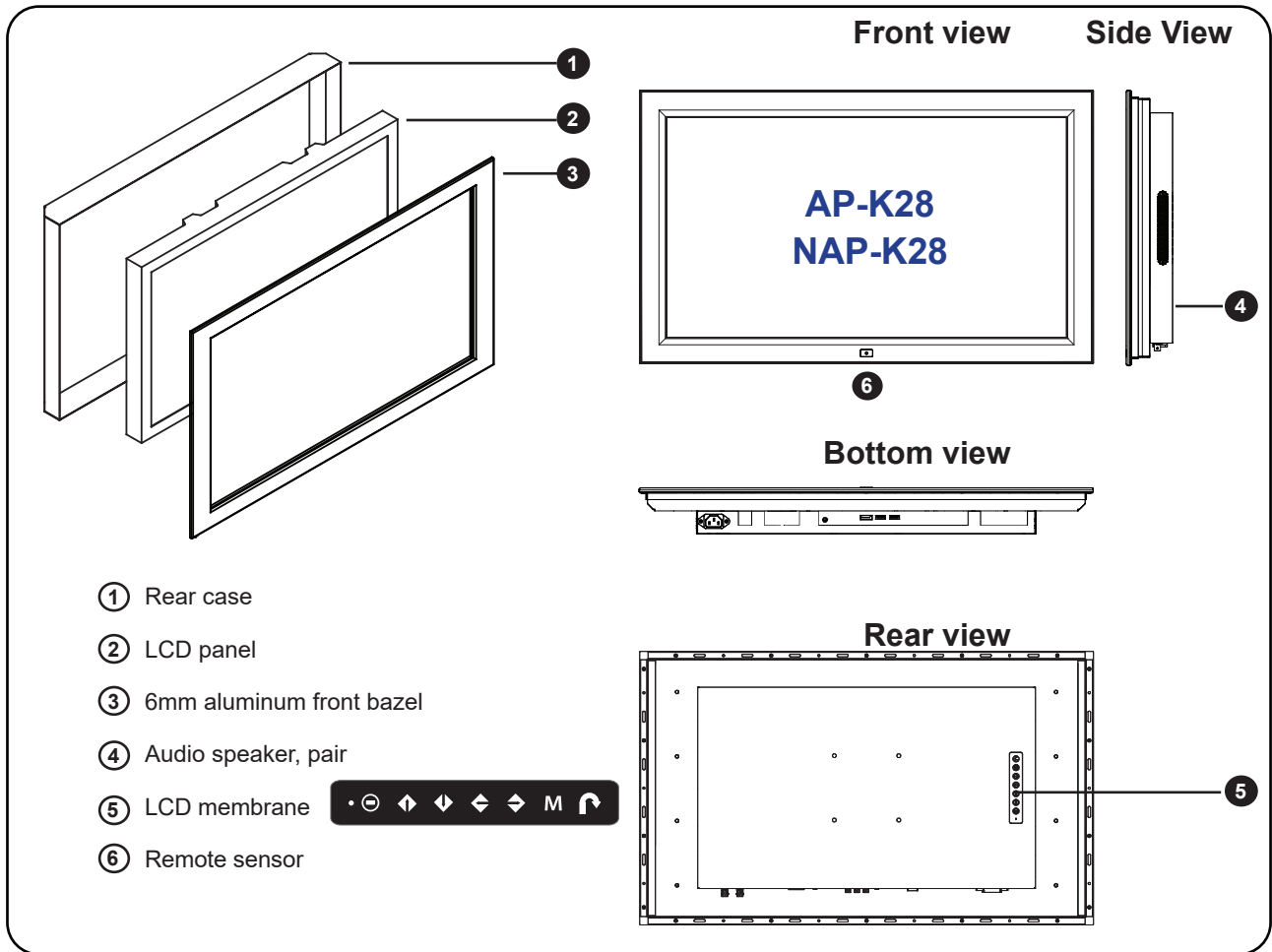


- 28" 4K LCD Display X 1
- 6ft DP cable X 1
- Power cord X 1
- Remote controller X 1

Basic I/O

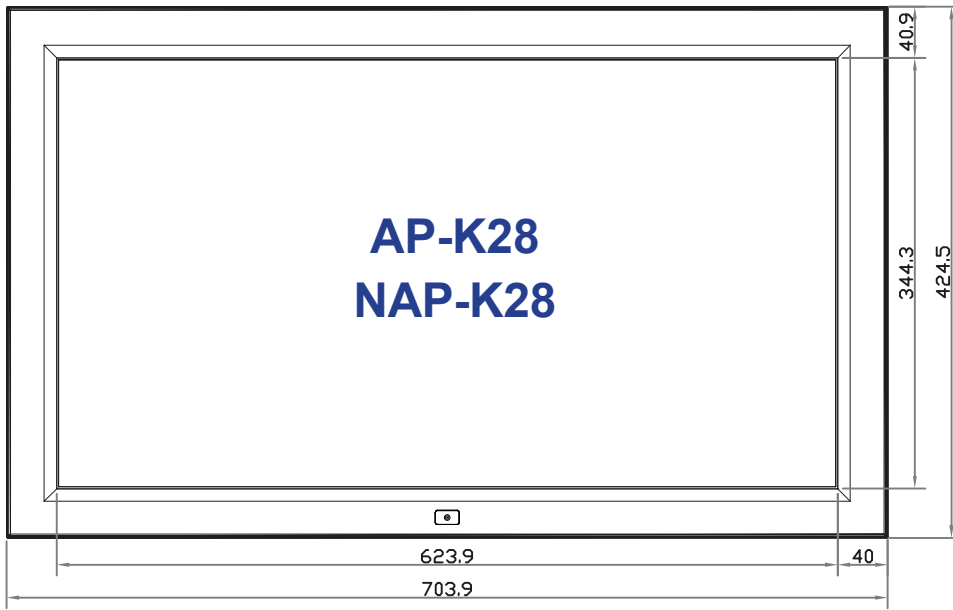


< 1.2 > Structure Diagram

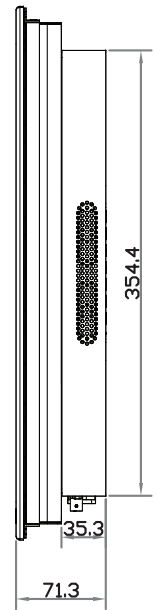


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
AP-K28	703.9 x 71.3 x 424.5 mm 27.7 x 2.8 x 16.7 inch	785 x 175 x 527 mm 30.9 x 6.9 x 20.7 inch	16.8 kg 37 lb	20.4 kg 44.9 lb
NAP-K28	703.9 x 71.3 x 424.5 mm 27.7 x 2.8 x 16.7 inch	785 x 175 x 527 mm 30.9 x 6.9 x 20.7 inch	18.6 kg 40.9 lb	22.2 kg 48.8 lb

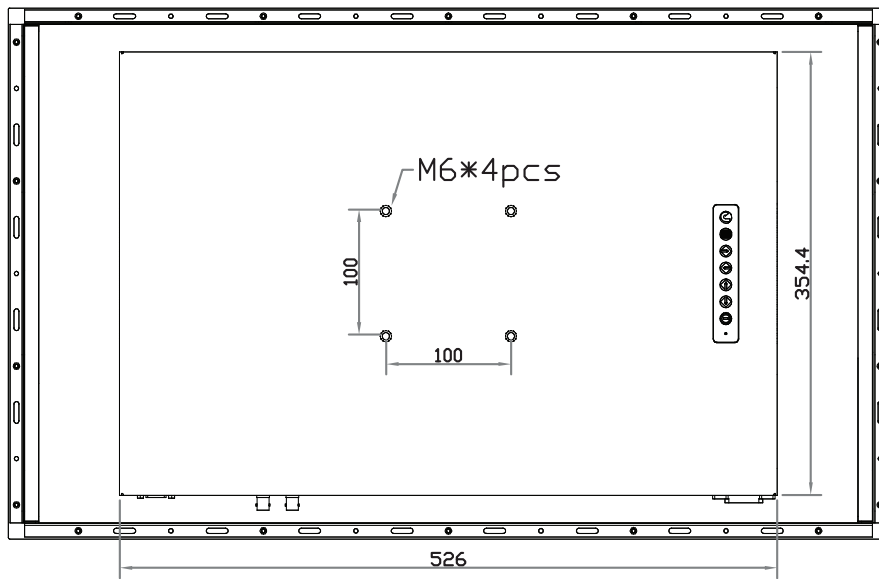
Front View



Side View

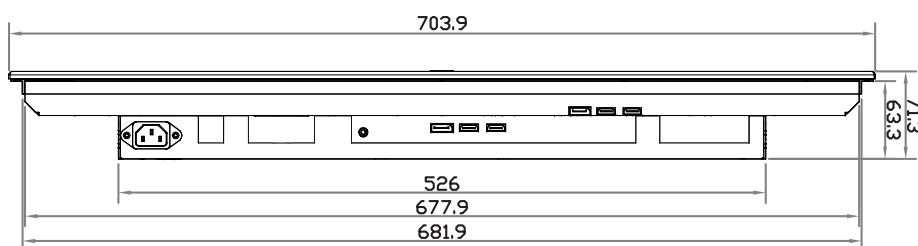


Rear View

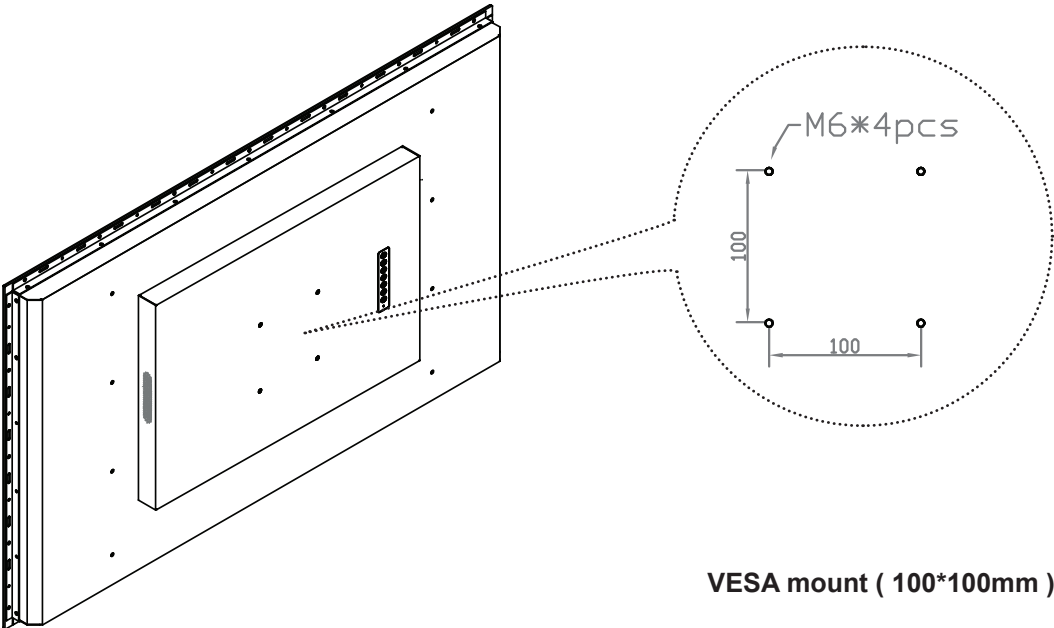


UNIT : mm
1mm = 0.03937 inch

Bottom View



< 1.3 > VESA Installation



VESA mount (100*100mm)

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

< Part 2 > DP-K28

< 2.1 > Package Content

28" 4K LCD Display

DP-K28

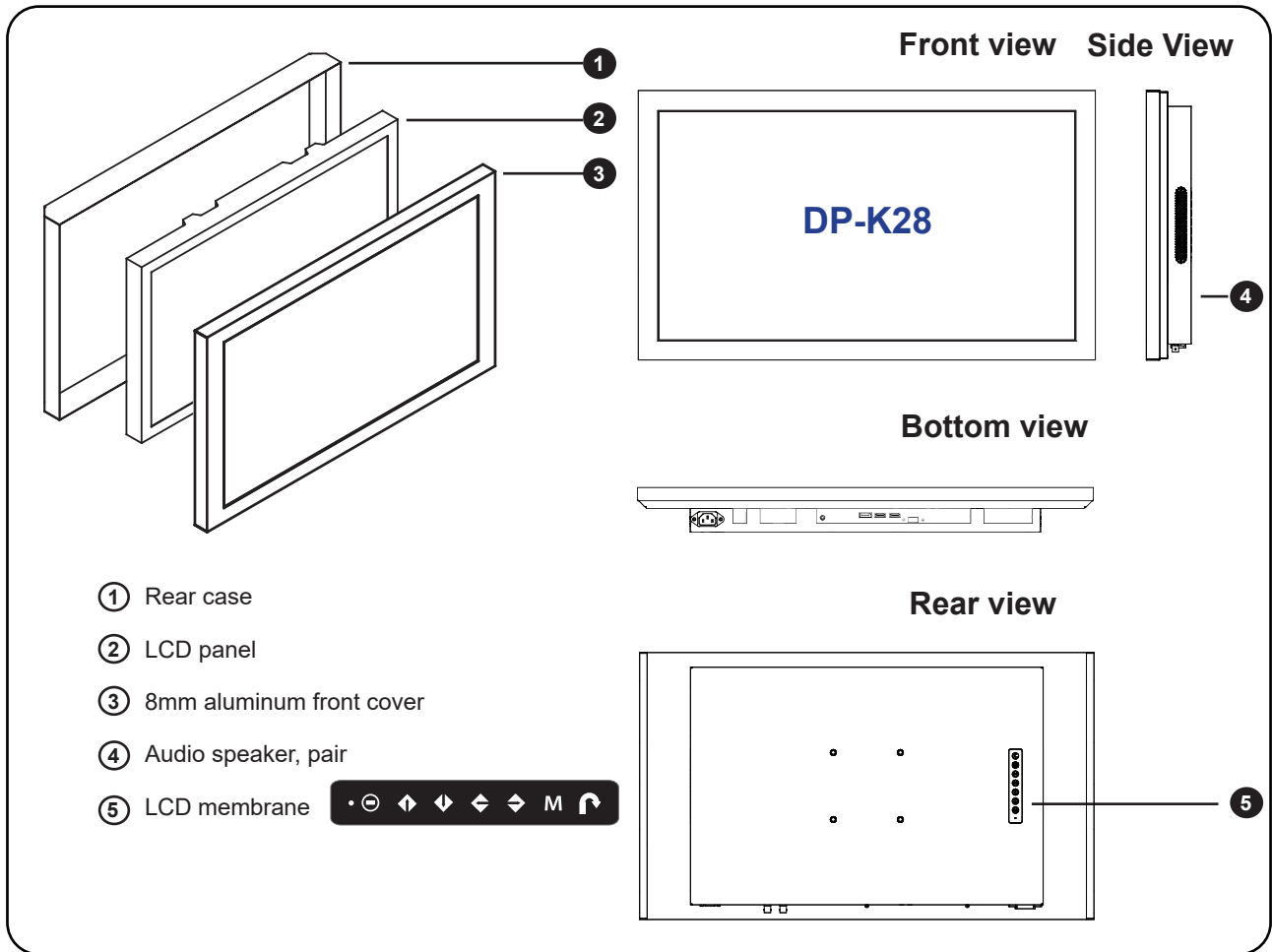


- 28" 4K LCD Display X 1
- 6ft DP cable X 1
- Power cord X 1
- Remote controller X 1

Basic I/O



< 2.2 > Structure Diagram

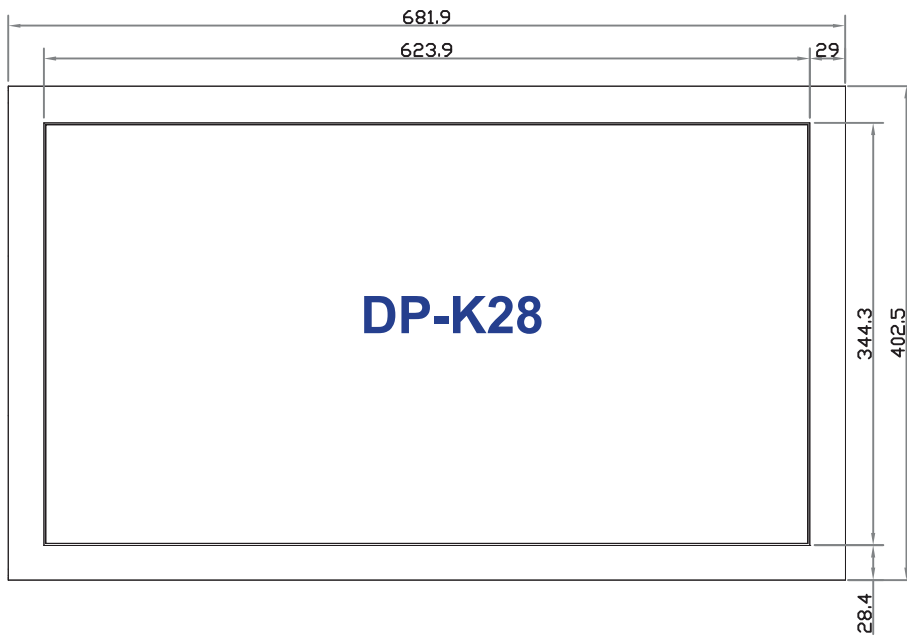


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
DP-K28	681.9 x 66.8 x 402.5 mm 26.8 x 2.6 x 15.8 inch	785 x 175 x 527 mm 30.9 x 6.9 x 20.7 inch	14.8 kg 32.6 lb	18.4 kg 40.5 lb

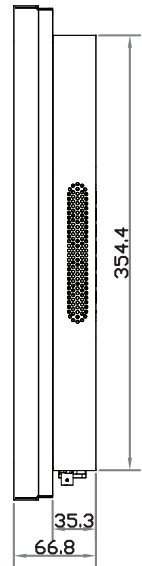
< 2.2 > Dimension

28" 4K LCD Display

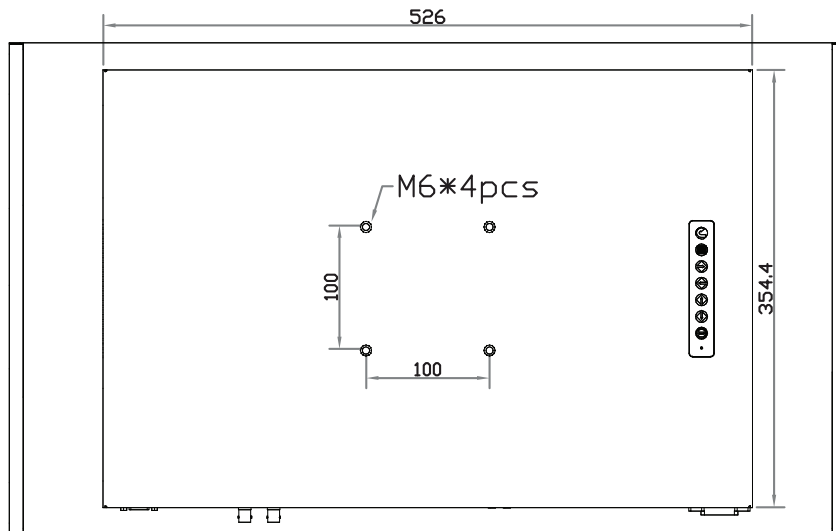
Front View



Side View

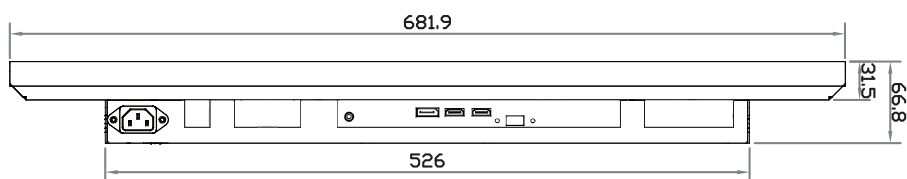


Rear View

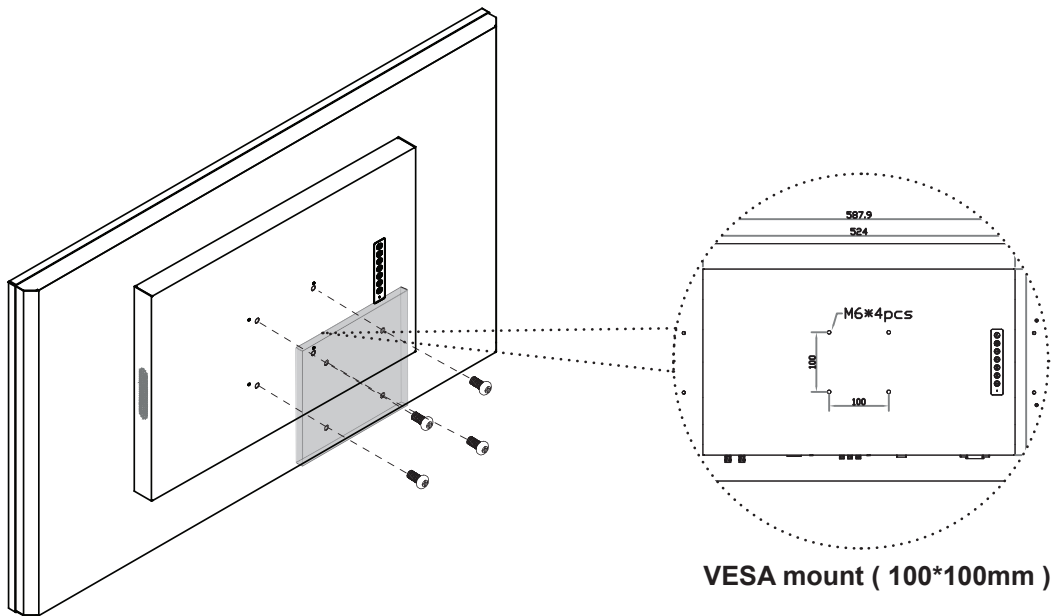


UNIT : mm
1mm = 0.03937 inch

Bottom View



< 2.3 > VESA Installation



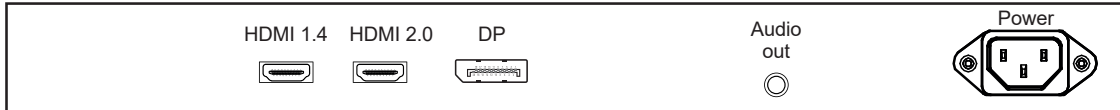
- Hardware and M6*4 pcs for VESA mount are not provided

OP-K28

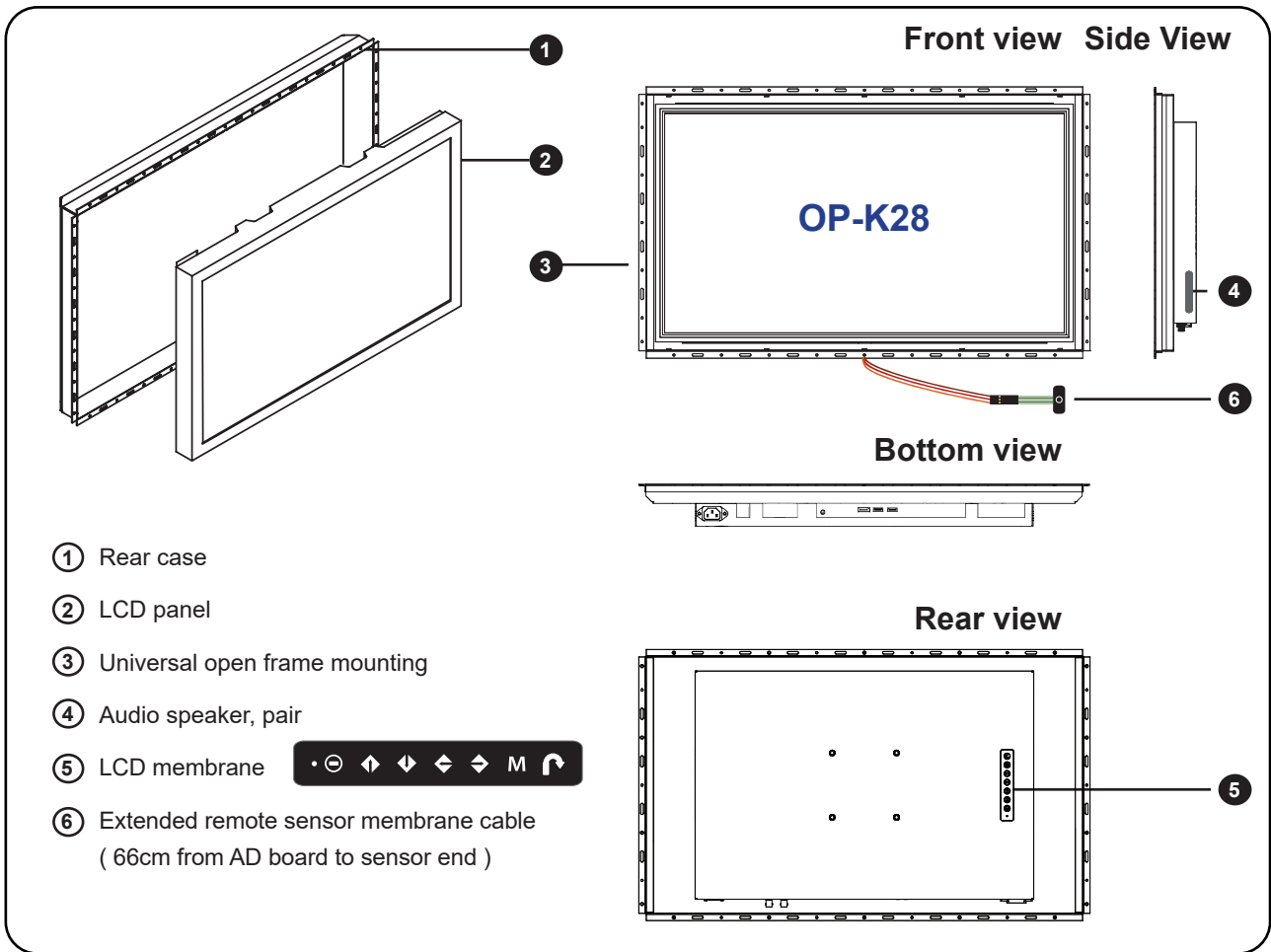


- 28" 4K LCD Display X 1
- 6ft DP cable X 1
- Power cord X 1
- Remote controller X 1

Basic I/O



< 3.2 > Structure Diagram

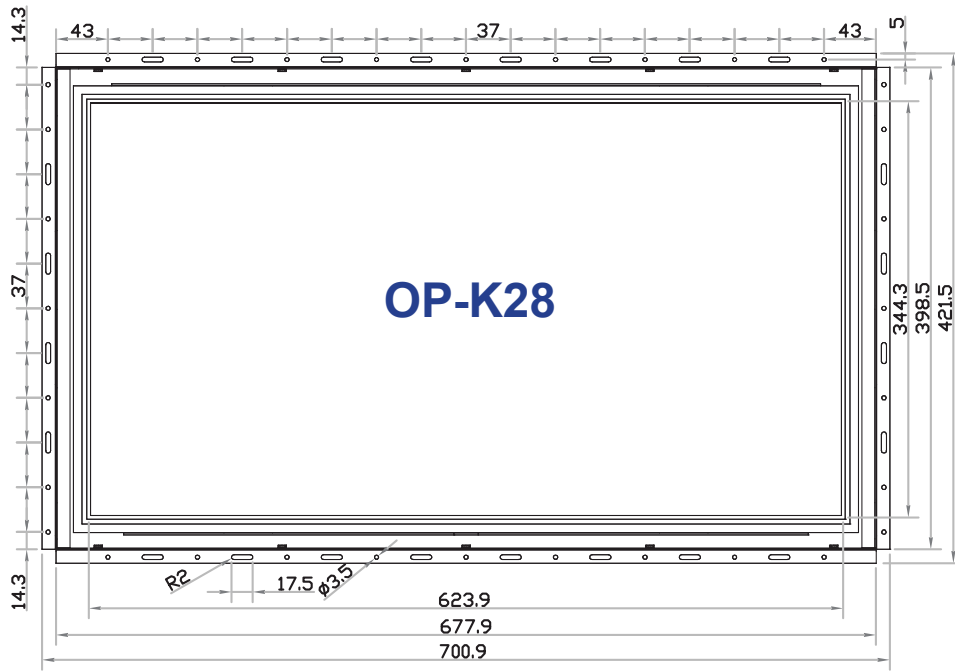


Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
OP-K28	700.9 x 64.8 x 421.5 mm 27.6 x 2.6 x 16.6 inch	785 x 175 x 527 mm 30.9 x 6.9 x 20.7 inch	12.7 kg 27.9 lb	16.3 kg 35.9 lb

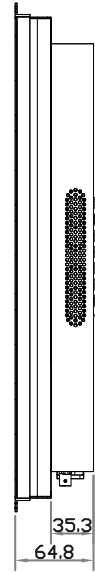
< 3.2 > Dimension

28" 4K LCD Display

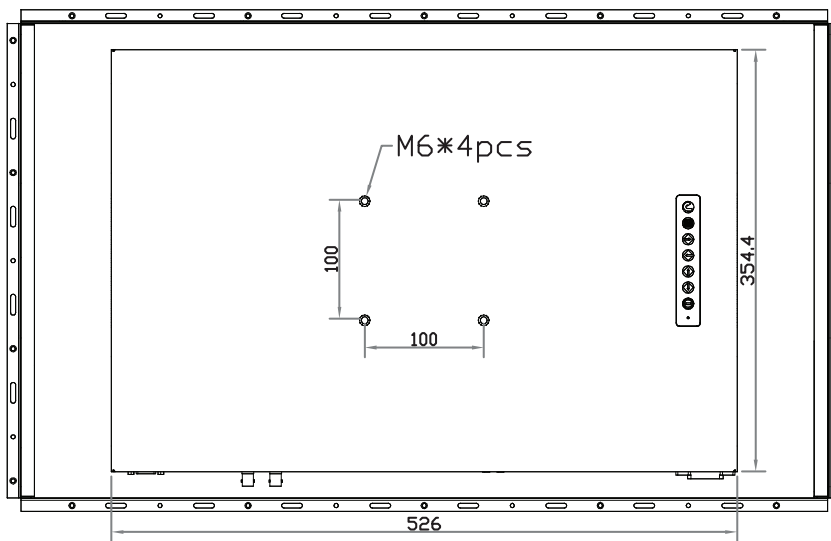
Front View



Side View

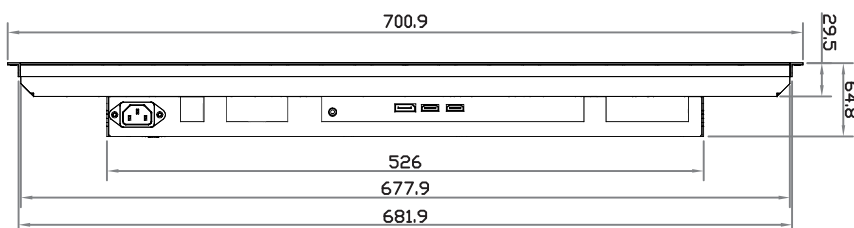


Rear View



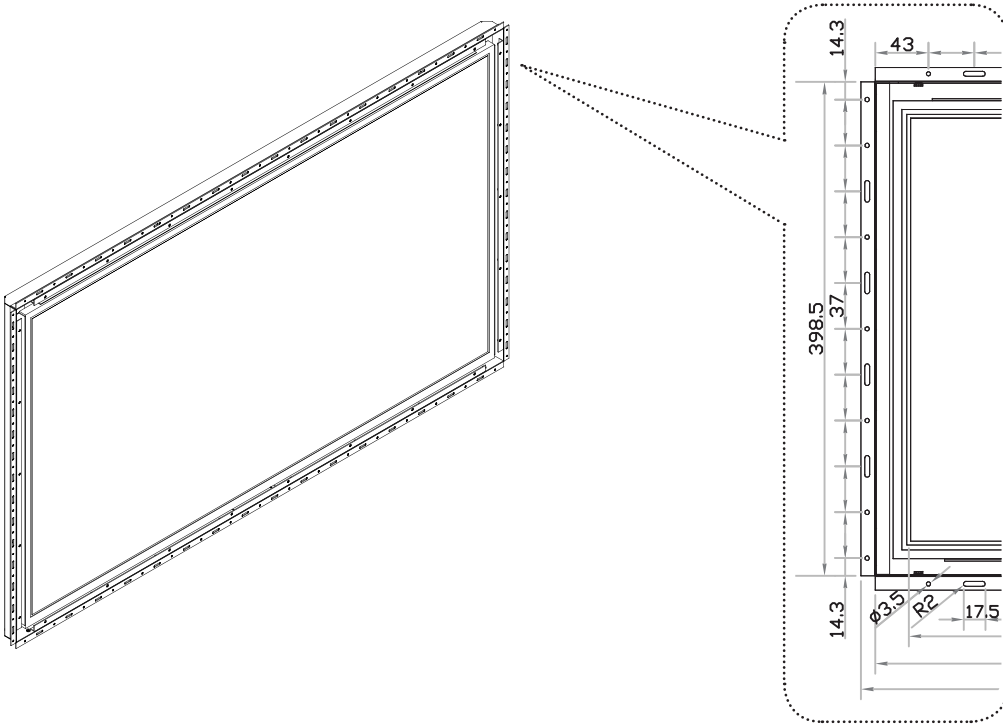
UNIT : mm
1mm = 0.03937 inch

Bottom View

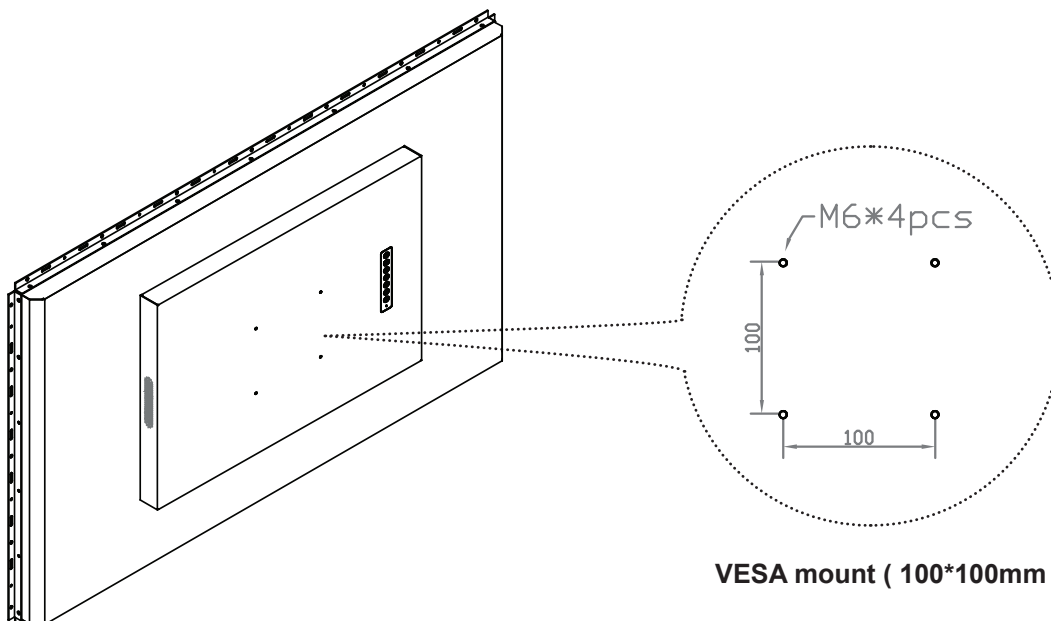


< 3.3 > Installation

(I) Universal mount



(II) VESA mount (100*100mm)



VESA mount (100*100mm)

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

< Part 4 >

< 4.1 > Product Specifications

28" 4K LCD Display

Mechanical Design	AP-K28	NAP-K28	DP-K28	OP-K28
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
Overhead titled wall-mount	option	option	option	-
Desktop stand	option	option	option	-

LCD Panel	
Panel Size (diagonal)	28-inch Widescreen TFT color LCD
Native resolution	3840 x 2160@60Hz
Brightness (cd/m ²)	300
Contrast Ratio (typ.)	1000 : 1
Colors	1.07 Billion, 10-bit
Viewing Angle (L/R/U/D)	85/85/80/80
Response Time (ms)	5
Dot pitch (mm)	0.181
Display Area (mm)	620.93H x 341.28V
Surface treatment	Anti-glare
Surface hardness	3H
Backlight Type	LED
MTBF (hrs)	30,000

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	10W x 2

*When the audio output is connected, speaker output is OFF

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

Compliance	
EMC	FCC & CE
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

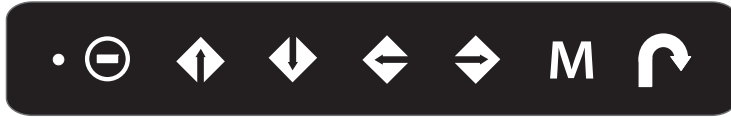
Physical Specification	AP-K28	NAP-K28	DP-K28	OP-K28
Product (W x D x H)	703.9 x 71.3 x 424.5		681.9 x 66.8 x 402.5	700.9 x 64.8 x 421.5
	27.7 x 2.8 x 16.7		26.8 x 2.6 x 15.8	27.6 x 2.6 x 16.6
Packing (W x D x H)	785 x 175 x 527		785 x 175 x 527	785 x 175 x 527
	30.9 x 6.9 x 20.7		30.9 x 6.9 x 20.7	30.9 x 6.9 x 20.7
Net Weight	16.8 kg / 37 lb	18.6 kg / 40.9 lb	14.8 kg / 32.6 lb	12.7 kg / 27.9 lb
Gross Weight	20.4 kg / 44.9 lb	22.2 kg / 48.8 lb	18.4 kg / 40.5 lb	16.3 kg / 35.9 lb
Chassis color	Dark			
Chassis 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 60 / 75Hz	
		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	
HDMI Input	Audio Signal	2ch Linear PCM	
		2ch Linear PCM	
	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)			
HDMI 1.4	1280 x 720 x 50 / 60Hz (720p)		
	720 x 480 x 50 / 60Hz (576p / 480p)		
HDMI Input	Audio Signal	2ch Linear PCM	
		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.

- 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)

< 4.2 > On-screen Display Operation (OSD)

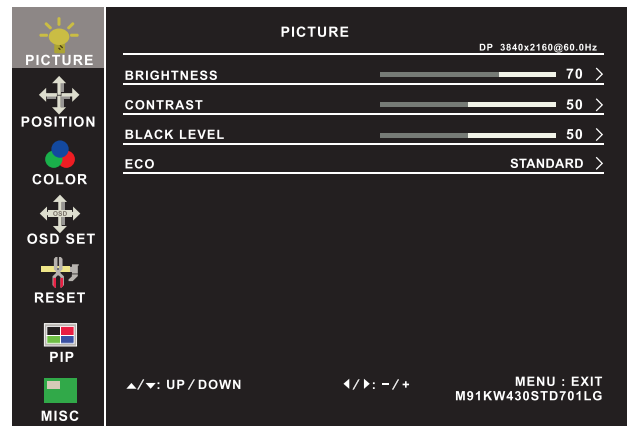
① Picture

Brightness : Adjust the screen brightness

Contrast : Adjust the difference between the image background (black level) and the foreground (white level)

Black level : Adjust background black level of the screen

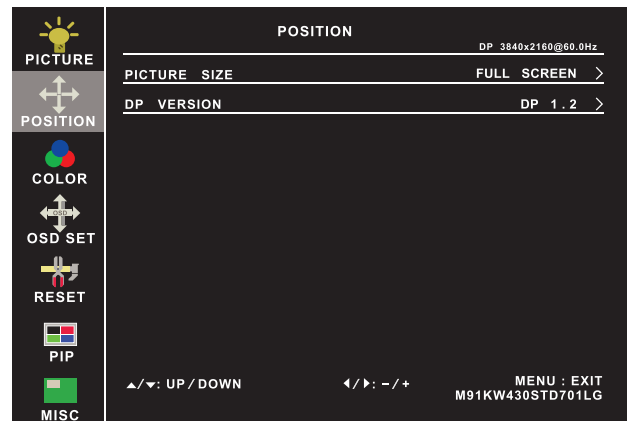
Eco : Screen in power saving mode



② Position

Picture size : Adjust the image size
- Full Screen / 4:3 / 5:4 / Pixel to Pixel

DP version : Select the DP version



③ Color

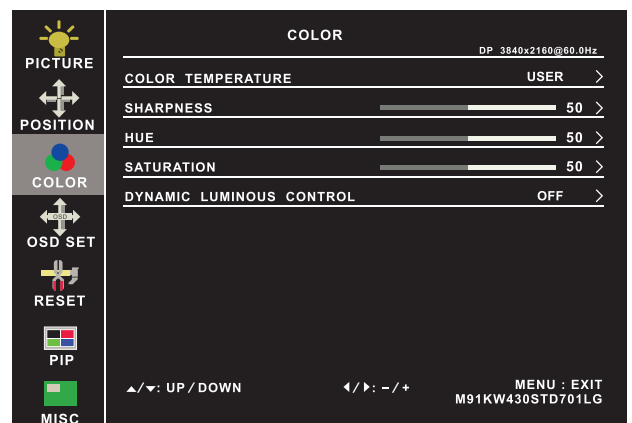
Color temperature : User / Warm / Cool / 5400k mode and Red / Green / Blue color balance

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

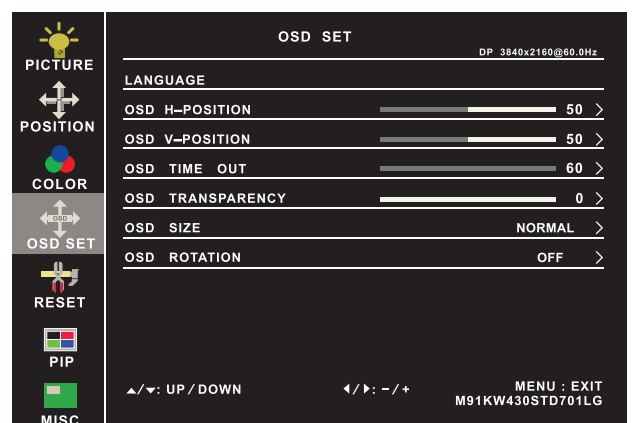
OSD V-Position : Align the screen image up or down

OSD time out : Adjust the screen timeout

OSD transparency : Adjust the screen transparency

OSD size : Adjust the screen size - Normal / Small

OSD rotation : Rotate the screen - 90° / 180° / 270°

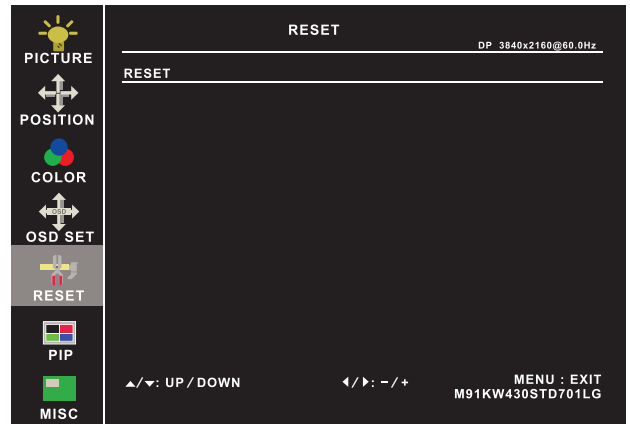


< 4.2 > On-screen Display Operation (OSD)

28" 4K LCD Display

⑤ Reset

Reset : Return the adjustment back to factory setting



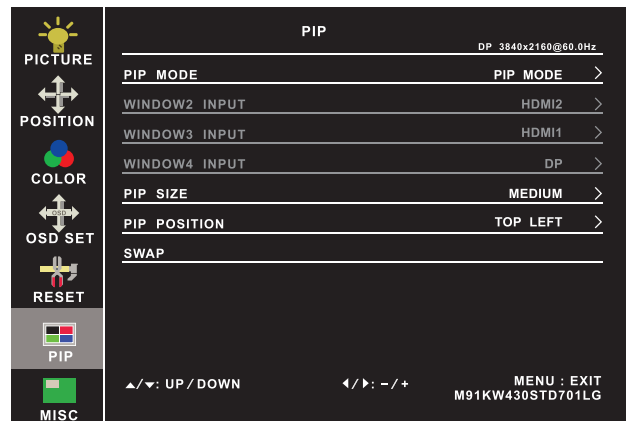
⑥ PIP

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



⑦ MISC

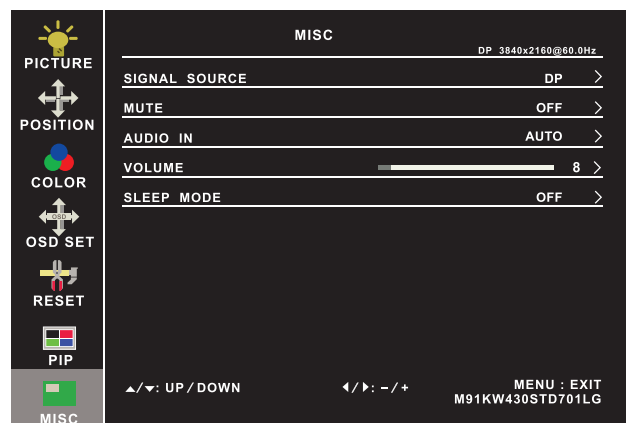
Signal source : Select the signal source - DP / HDMI1 / HDMI2

Mute : Turn off the surrounding sound

Audio in : Auto / Line in / DP

Volume : Adjust the volume of sound

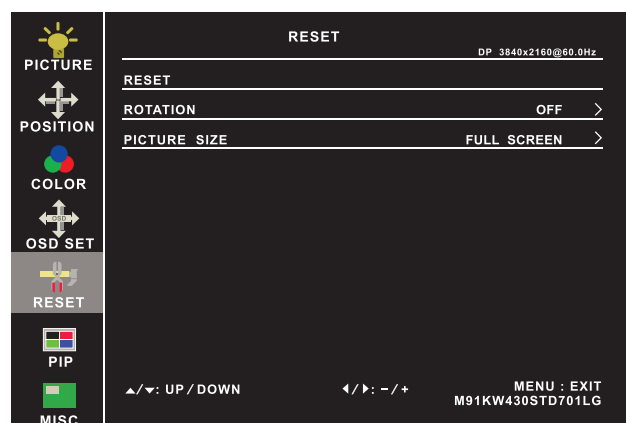
Sleep mode : Set the off time - 10 min / 20 min / 30 min / 50 min / 60 min / 120 min / 240 min



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



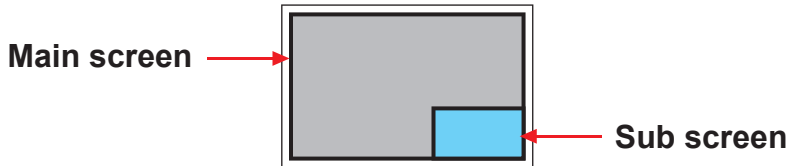
< 4.3 > How to Use Picture In Picture (PIP) / Picture By Picture (PBP)

< 4.3.1 > Picture in Picture (PIP)

Mode

Display the Sub screen in the Main screen.

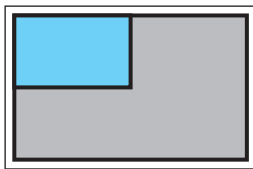
OSD Menu → MISC → PIP Mode → Large / Small / OFF



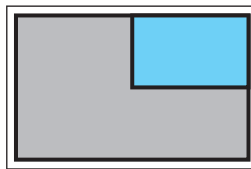
Position

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

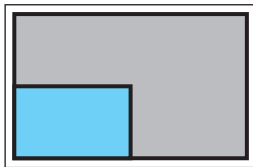
OSD Menu → MISC → PIP Position → top left / top right / bottom left / bottom right



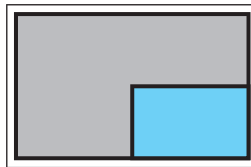
top left



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



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

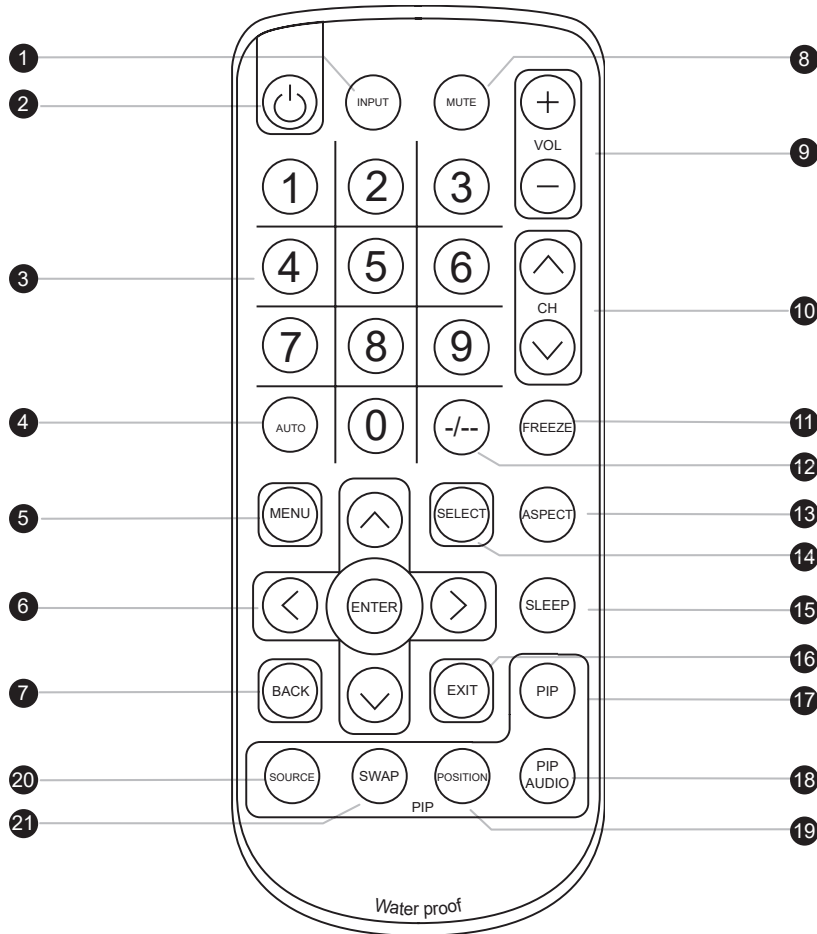
< 4.3.3 > PIP / PBP Source

To select an input signal for PIP / PBP Sub screen.
 OSD Menu → MISC → PIP Source → HDMI / SDI

The PIP / PBP is operable in the following table :

Main \ Sub	HDMI	SDI
HDMI	X	O
SDI	O	X

< 4.4 > 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		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

< Part 5 > Options

< 5.1 > Option Table

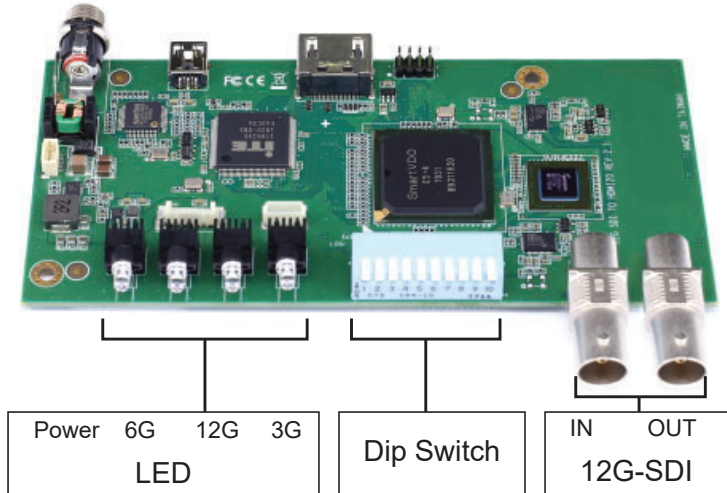
28" 4K LCD Display

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

< 5.2 > 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

INPUT

12G-SDI IN	BNC RG6 / RG59 (75Ω)
------------	------------------------

OUTPUT

12G-SDI OUT	BNC RG6 / RG59 (75Ω)
-------------	------------------------

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
HD-SDI IN	1920 x 1080p	@30 / 25 / 24fps
	1920 x 1080i	@60 / 50fps
	1280 x 720p	@60 / 50fps

Dip Switch Mode

Output Color

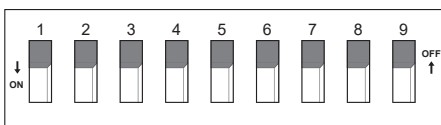
	4	5
YUV444	OFF	OFF
YUV422	OFF	ON
RGB444	ON	OFF
YUV420	ON	ON

EQ

	6	7
Auto	OFF	OFF
Disable	OFF	ON
Enable	ON	OFF

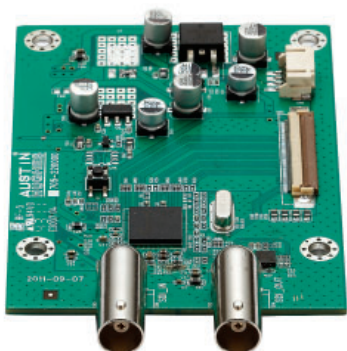
Out1 Cable length

	8
Short	OFF
Long	ON



< 5.3 > Options : 3G / HD / SD-SDI input

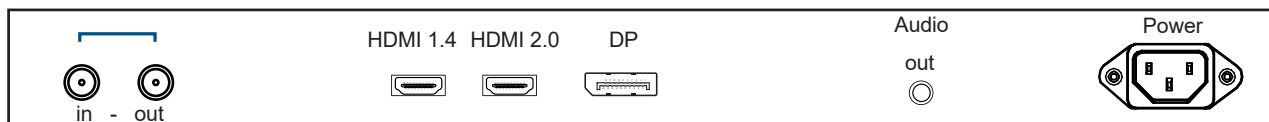
28" 4K LCD Display



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



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

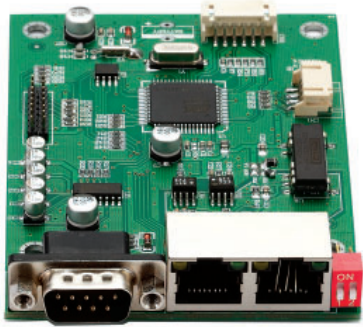
Compatible Video Format	3G-SDI	1080p @60 / 50Hz, 4:2:2
		1080p @30 / 25 / 24Hz, 4:4:4
		1080i @60 / 50Hz, 4:4:4
		720p @60 / 50Hz, 4:4:4
	HD-SDI	1080p @30 / 25 / 24Hz, 4:2:2
		1080i @60 / 50Hz, 4:2:2
	SD-SDI	720p @60 / 50Hz, 4:2:2
ITU-R BT.656	480i @60Hz, 4:2:2	
	576i @50Hz, 4:2:2	

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

< 5.4 > Options : MCS

MCS (Multi-display Control)

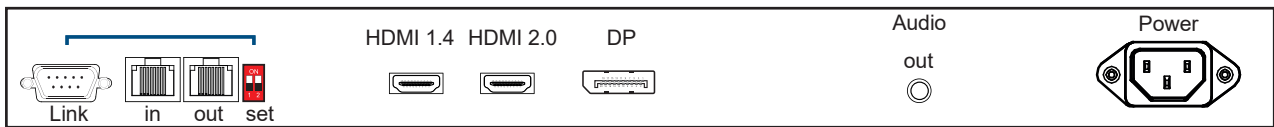


More control is always good. Especially when it is necessary and easy. Austin Hughes provides MCS solution to control the **OSD** of various UltraView LCD display up to 64 units.

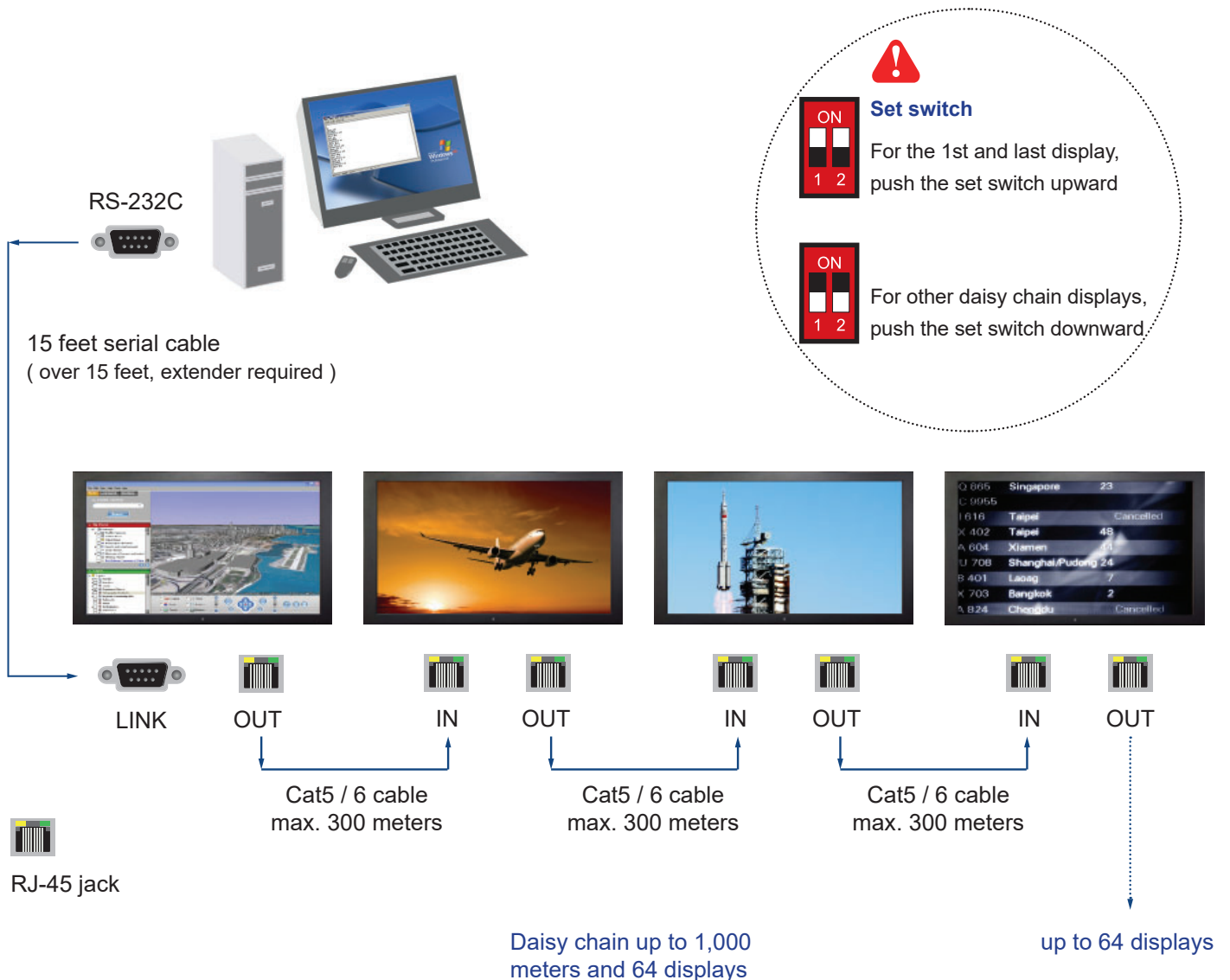
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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.

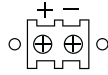
MCS



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



< 5.5 > Options : DC Power



28" 4K LCD Display

Model	24V	48V	125V
Input rating			
Input voltage:	24-Volt	48-Volt	110-Volt
Input range:	18 ~ 36V	36 ~ 75V	66 ~ 160V
Input current			
- No load	50 mA	50 mA	40 mA
- Full load	4880 mA	2442 mA	993 mA
Output rating			
Output voltage:	24-Volt	24-Volt	24-Volt
Output current:	4.16A	4.16A	4.16A
Efficiency	88%	90%	92%



*** For DC power option :

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

< 5.6 > 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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