UltraView
dedicated LCD display solutions

User Manual   55" 4K 3840 x 2160 LCD

AP-K55
8mm Aluminum front bezel

NAP-K55
Front NEMA4 / IP65

DP-K55
Aluminum Front Panel

OP-K55
Universal Open Frame

FC CE RoHS REACH

Designed and manufactured by Austin Hughes

Legal Information

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.**
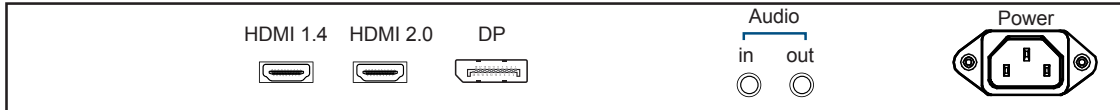
③ Gently wipe the surface. Use as little pressure as possible.

④ Wait until your monitor is completely dry before plugging it in and powering it up.

AP-K55 / NAP-K55
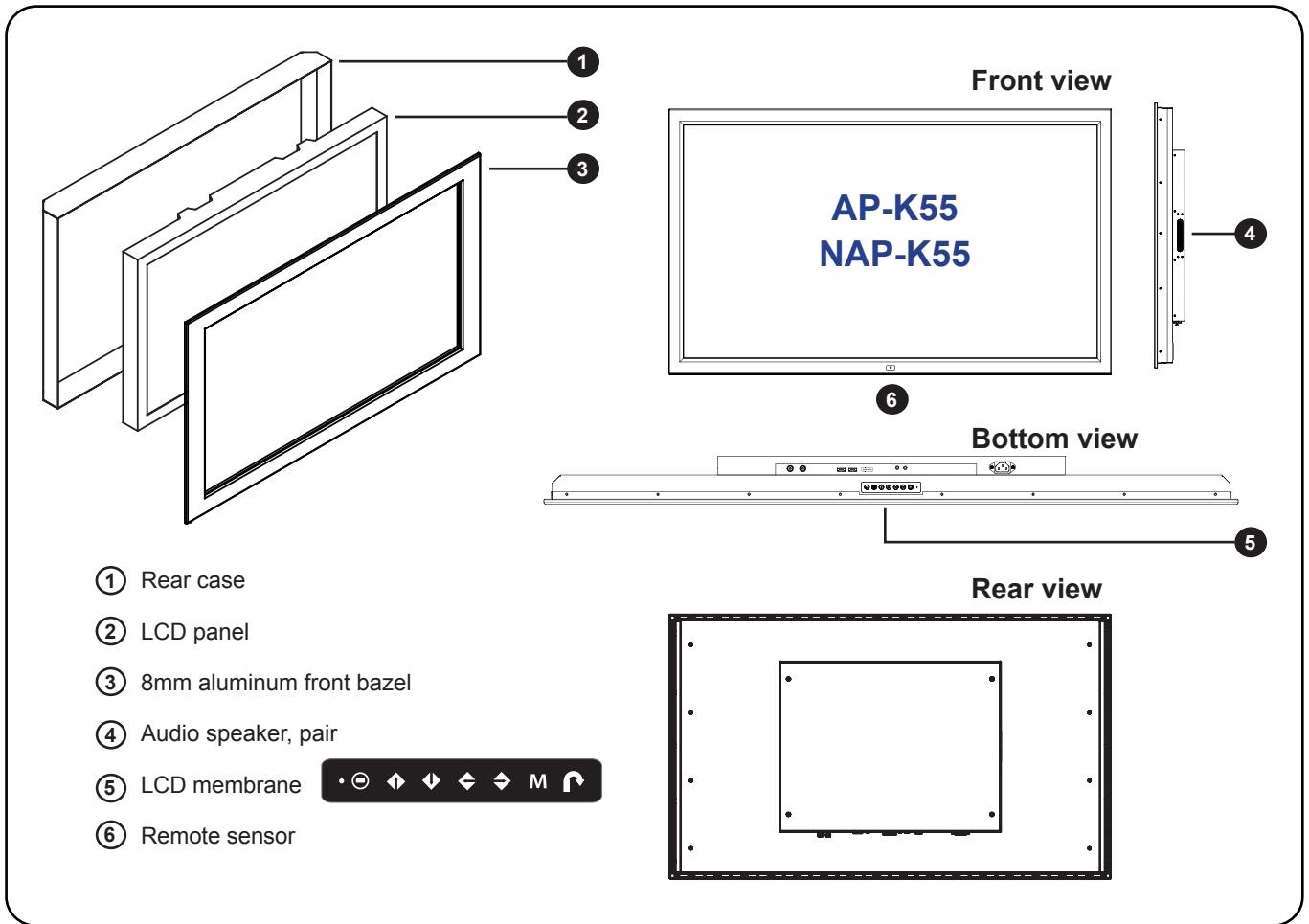
55" 4K LCD display X 1
6ft DP cable X 1
Power cord X 1
Remote controller X 1

Basic I/O

HDMI 1.4	HDMI 2.0	DP	Audio		Power
			in	out	

< 1.2 > Structure Diagram - AP / NAP-K55

Front view

AP-K55
NAP-K55

Bottom view

Rear view

① Rear case

② LCD panel

③ 8mm aluminum front bazel

④ Audio speaker, pair

⑤ LCD membrane

⑥ Remote sensor

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
AP-K55	1295 x 89.3 x 776 mm 51 x 3.5 x 30.6 inch	1455 x 212 x 917 mm 57.3 x 8.3 x 36.1 inch	40 kg 88 lbs	50 kg 110 lbs
NAP-K55	1295 x 89.3 x 776 mm 51 x 3.5 x 30.6 inch	1455 x 212 x 917 mm 57.3 x 8.3 x 36.1 inch	45 kg 99 lbs	55 kg 121 lbs

AP-K55
NAP-K55

684

46

776

1213

41

1295

Side View

35.3

89.3

Rear View

650

200

200

M5*8pcs

200

200

400

500

200

M8*4pcs

600

200

1172
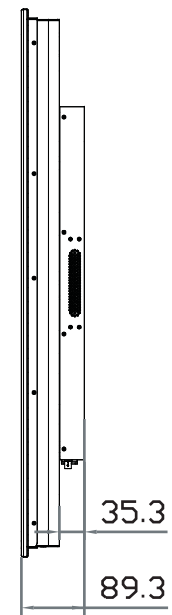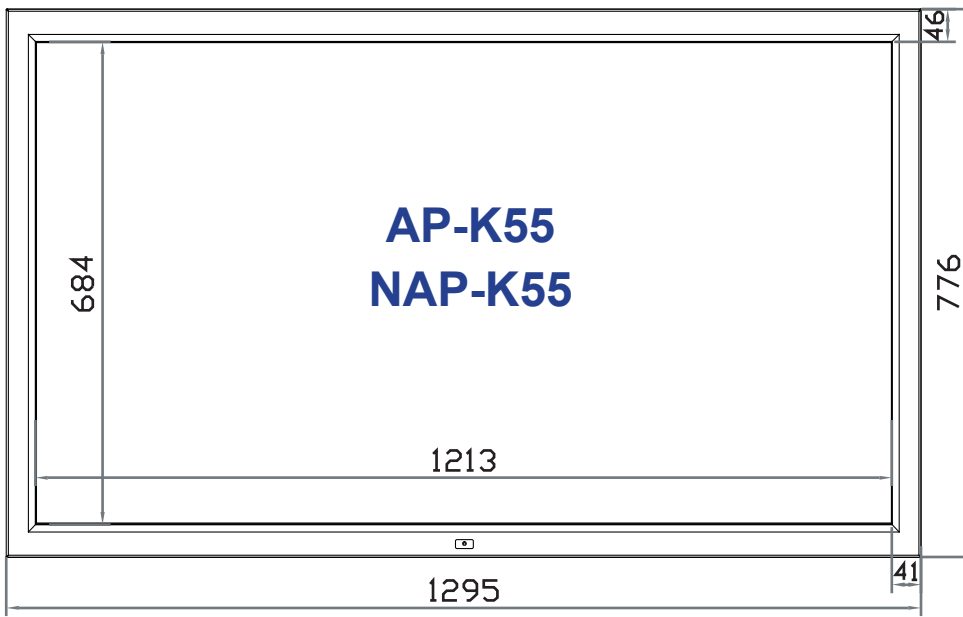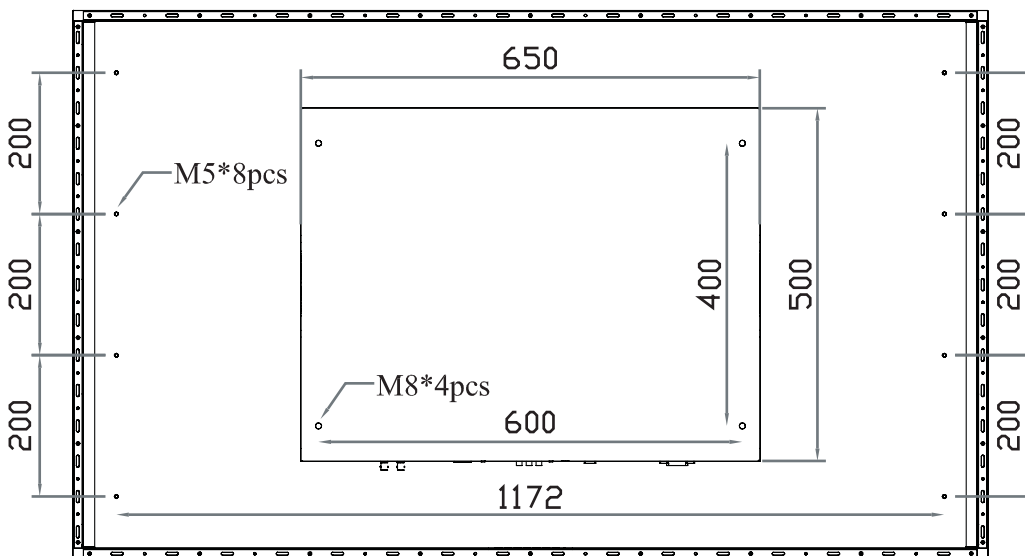
UNIT : mm
1mm = 0.03937 inch

Bottom View

1295

89.3

35.3

650

1265

1269
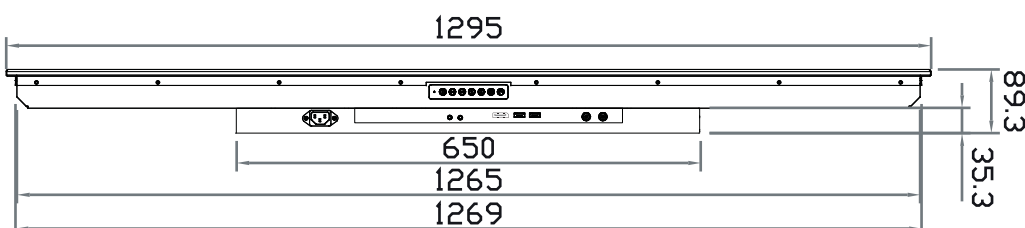
< 1.3 > VESA Installation - AP / NAP-K55

M8 screw

400

600
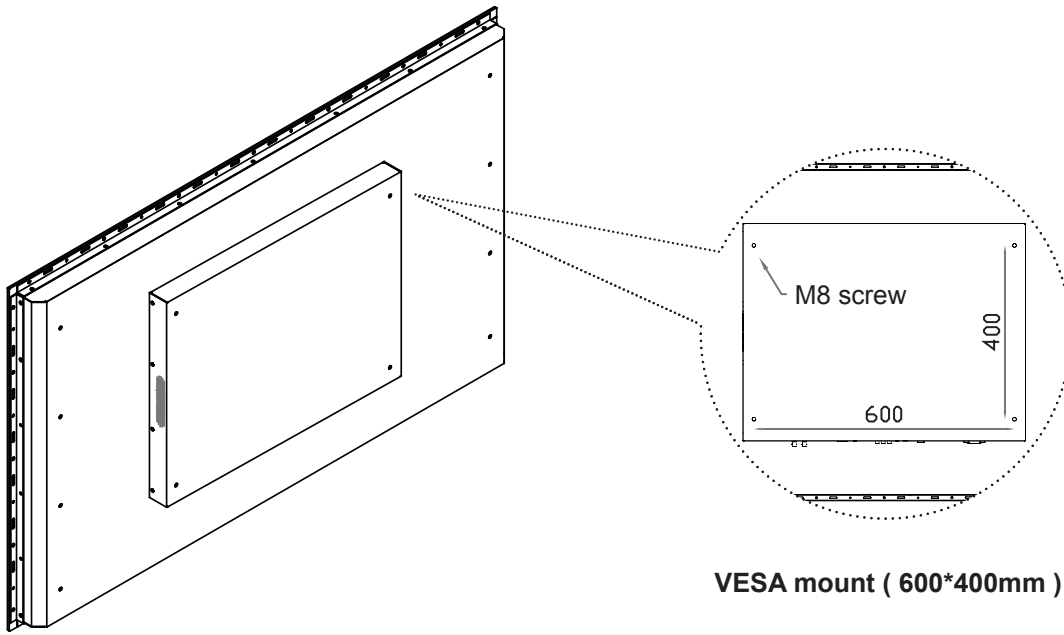
VESA mount (600*400mm)

■ Hardware and M8*4 pcs for VESA mount are not provided

DP-K55

55" 4K LCD display X 1
6ft DP cable X 1
Power cord X 1
Remote controller X 1

Basic I/O

| HDMI 1.4 | HDMI 2.0 | DP | Audio in | out | Power |

< 2.2 > Structure Diagram - DP-K55

Front view

DP-K55

④

Bottom view

⑤

① Rear case

② LCD panel

③ 8mm aluminum front cover

④ Audio speaker, pair

⑤ LCD membrane   · ⊖ ◈ ◈ ◆ ◆ M ↰

Rear view

Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
DP-K55	1269 x 83.1 x 750 mm 50 x 3.3 x 29.5 inch	1455 x 212 x 917 mm 57.3 x 8.3 x 36.1 inch	37 kg 81.4 lbs	47 kg 103.4 lbs

DP-K55

33

750

684

1213

28

1269

Side View

35.3

83.1

Rear View

UNIT : mm
1mm = 0.03937 inch

650

200

200

200

M5*8pcs

M8*4pcs

400

500

200

200

200

600

1172

Bottom View

1269

83.1

35.3

650

1265

< 2.3 > VESA Installation - DP-K55
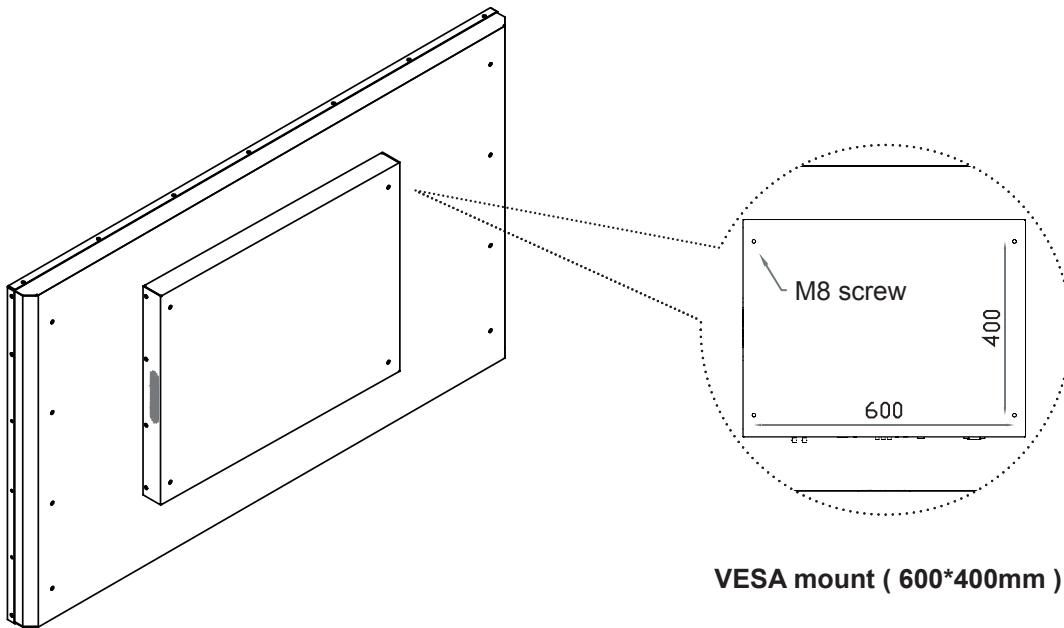
VESA mount (600*400mm)

■ Hardware and M8*4 pcs for VESA mount are not provided

OP-K55

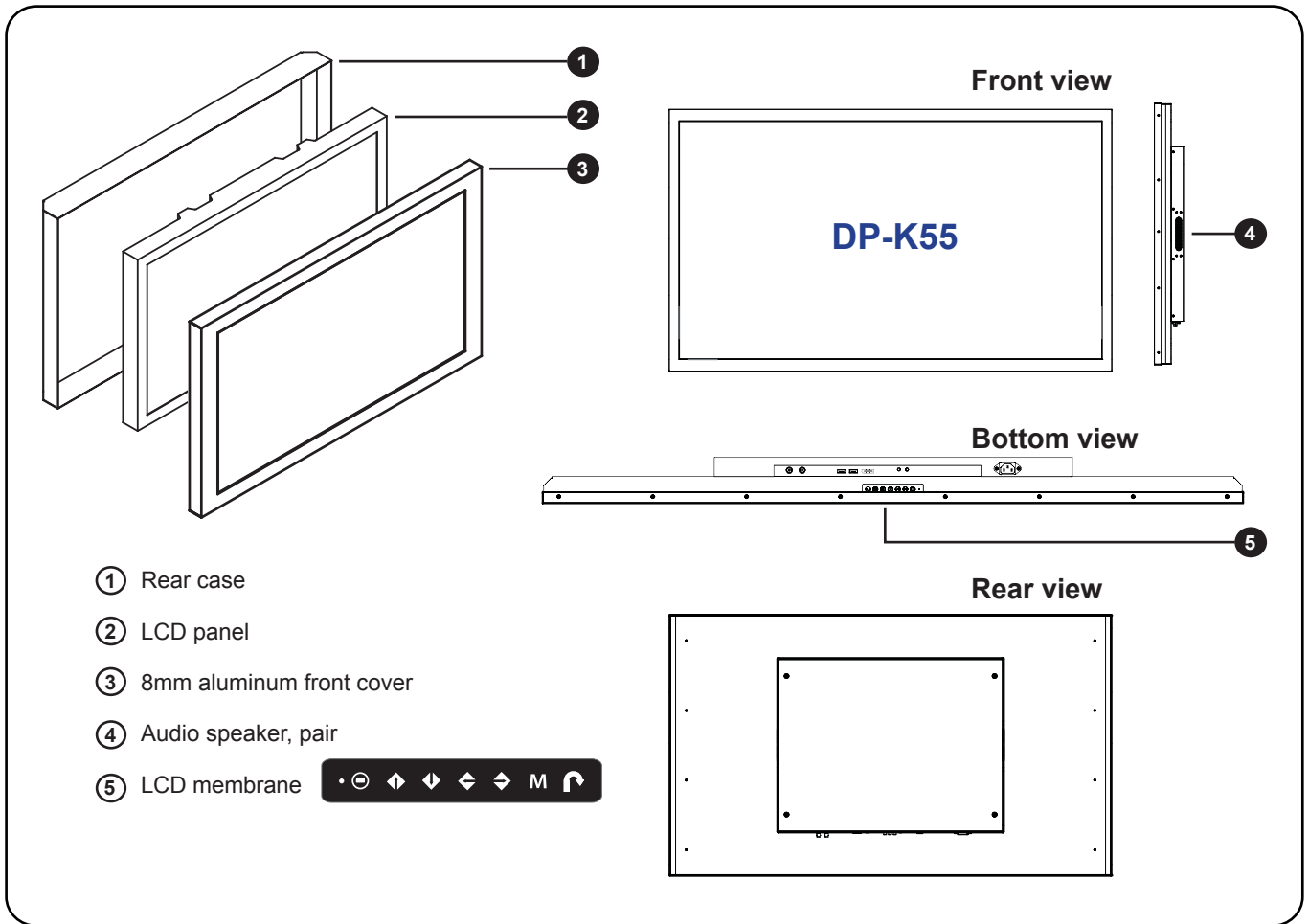**55" 4K LCD display X 1**
6ft DP cable X 1
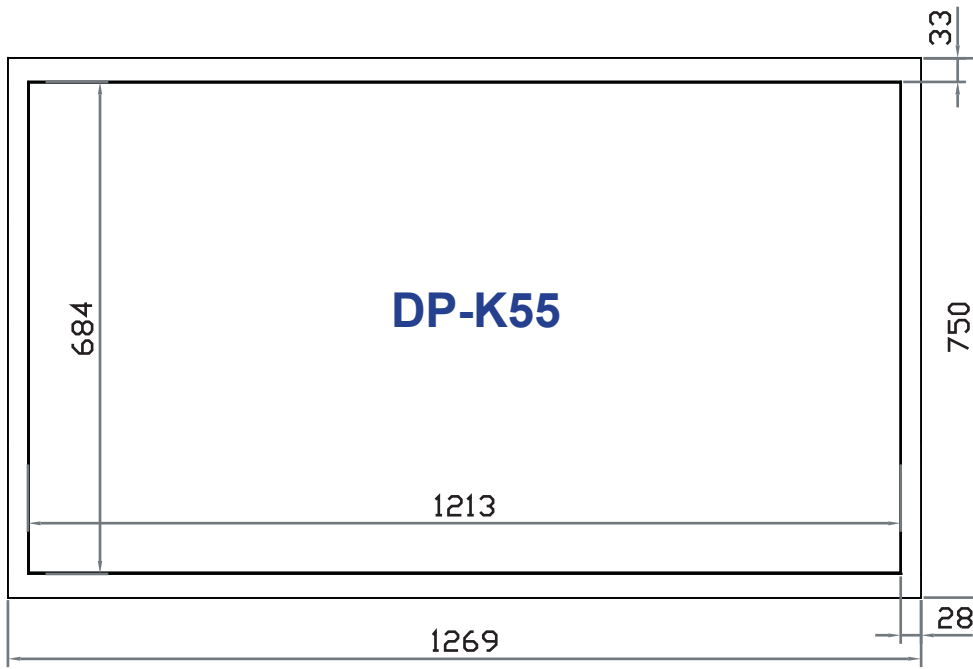**Power cord X 1**
Remote controller X 1

Basic I/O

HDMI 1.4   HDMI 2.0   DP   Audio   Power
                                    in   out

< 3.2 > Structure Diagram - OP-K55

① Rear case

② LCD panel

③ Universal open frame mounting

④ Audio speaker, pair

⑤ LCD membrane

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

Front view

OP-K55

Bottom view

Rear view
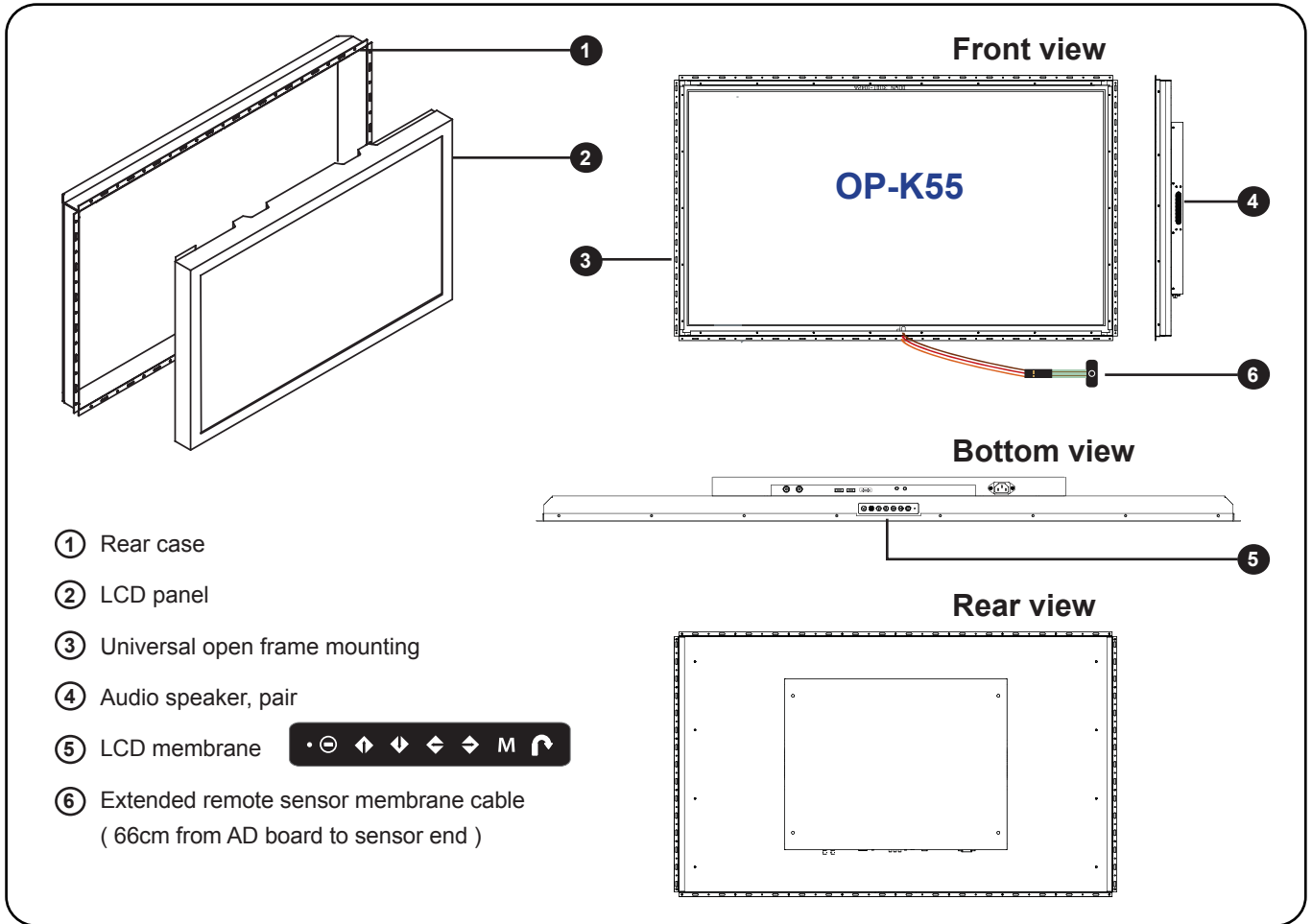
Model	Product Dimension (W x D x H)	Packing Dimension (W x D x H)	Net Weight	Gross Weight
OP-K55	1292 x 81.3 x 773 mm 50.9 x 3.3 x 30.4 inch	1455 x 212 x 917 mm 57.3 x 8.3 x 36.1 inch	33 kg 72.6 lbs	43 kg 94.6 lbs

Front View

Side View

OP-K55

8.5
39
8.5
15
25
684
746
773
1213
1265
1292
15
Ø3.5
R2
17.5
35.3
81.3

Rear View

UNIT : mm
1mm = 0.03937 inch

650
200
200
200
200
400
500
200
200
M5*8pcs
M8*4pcs
600
1172

Bottom View

1292
81.3
650
35.3
1265
1269
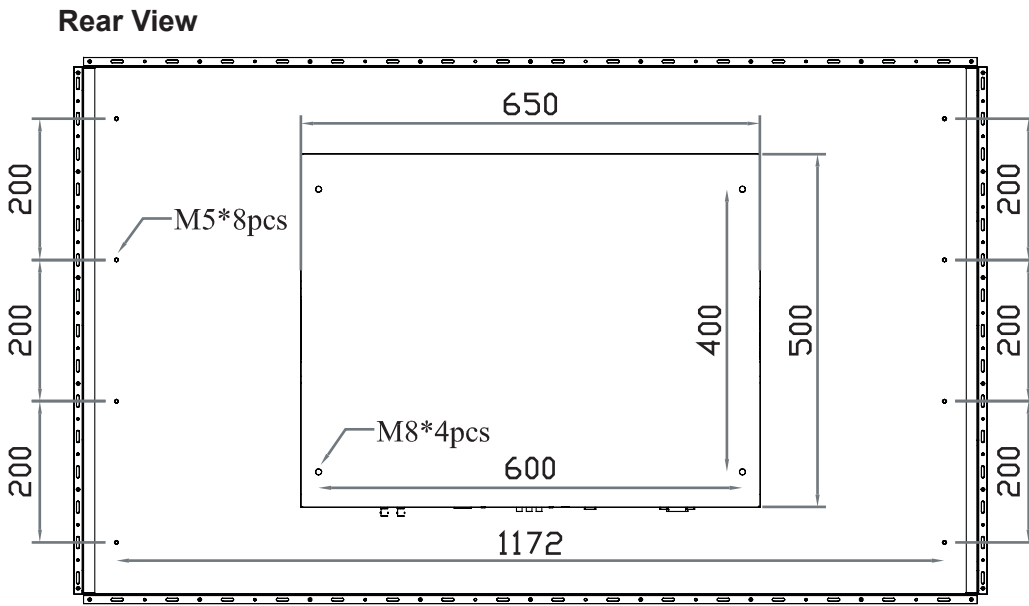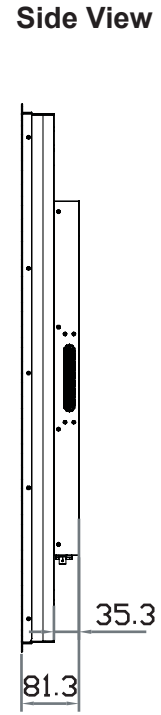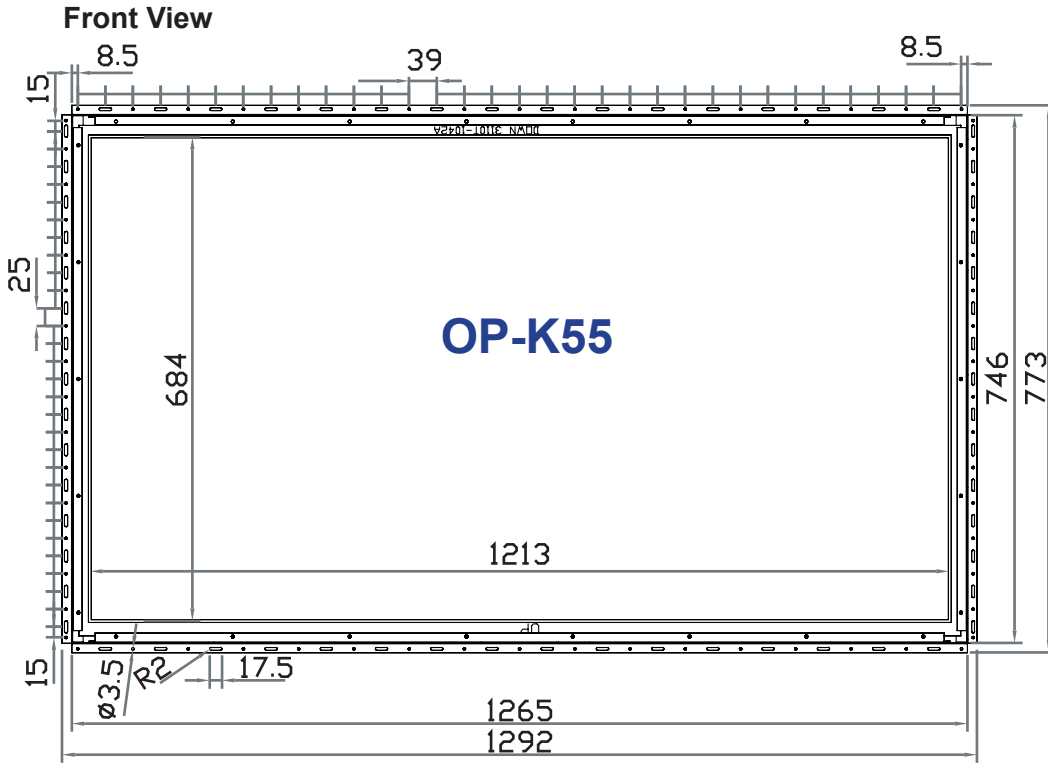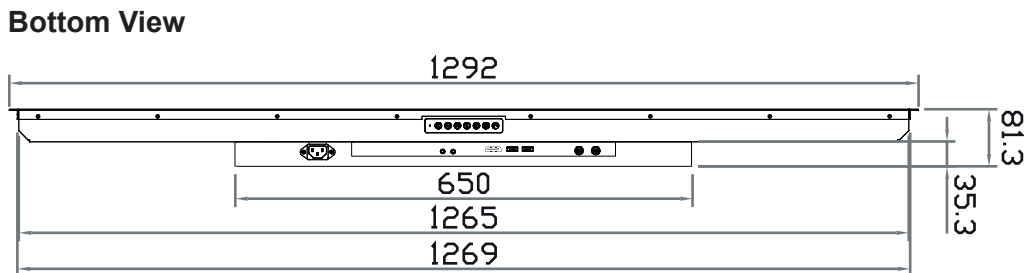
< 3.3 > Installation - OP-K55

(I) Universal mount

(II) VESA mount (600*400mm)
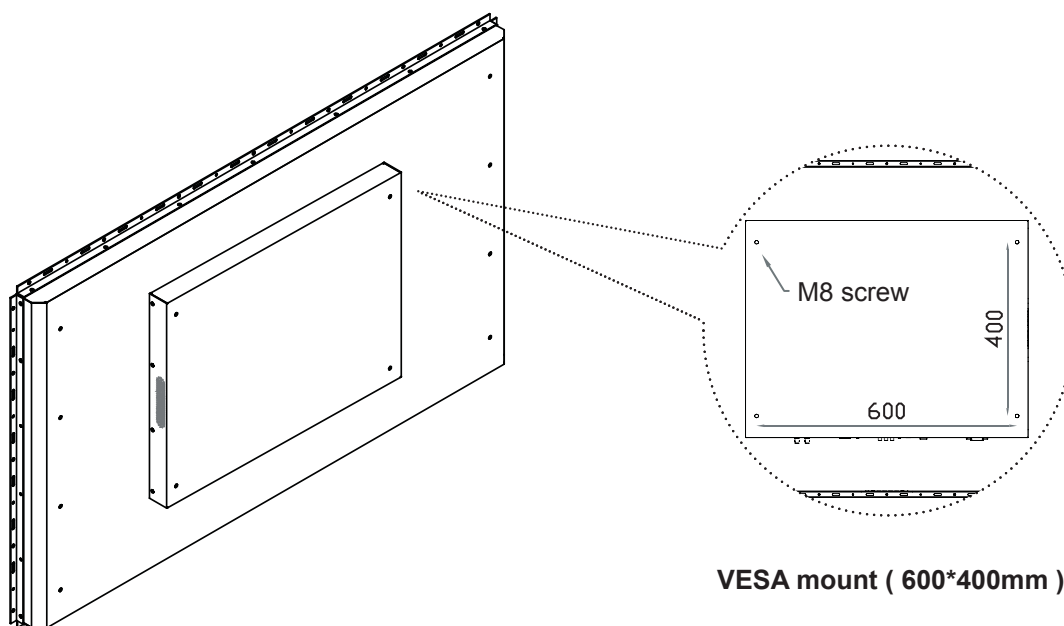
VESA mount (600*400mm)

■ Hardware and M8*4 pcs for VESA mount are not provided

< 4.1 > Product Specifications

55" 4K LCD Display

Mechanical Design		AP-K55	NAP-K55	DP-K55	OP-K55
	Protection	8mm front bezel	NEMA 4 / IP65	front cover	open frame
	Front Panel	Black, RAL 9005			-
	Rear Casing	Black, RAL 9005			
	VESA Mounting	600 x 400 mm		600 x 400 mm	600 x 400 mm
	Other Mounting	-			Universal mount

LCD Panel		Standard	Sunlight Readable
	Brightness (cd/m^2)	450	1500
	Contrast Ratio (typ.)	1200 : 1	4000 : 1
	Panel Size (diagonal)	55-inch Widescreen TFT color LCD	
	Native resolution	3840 x 2160	
	Colors	1.07 Billion, 10-bit	
	Viewing Angle (L/R/U/D)	89/89/89/89	
	Response Time (ms)	12	
	Dot pitch (mm)	0.315	
	Display Area (mm)	1209.60H x 680.40V	
	Surface treatment	Anti-glare	
	Surface hardness	2H	
	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

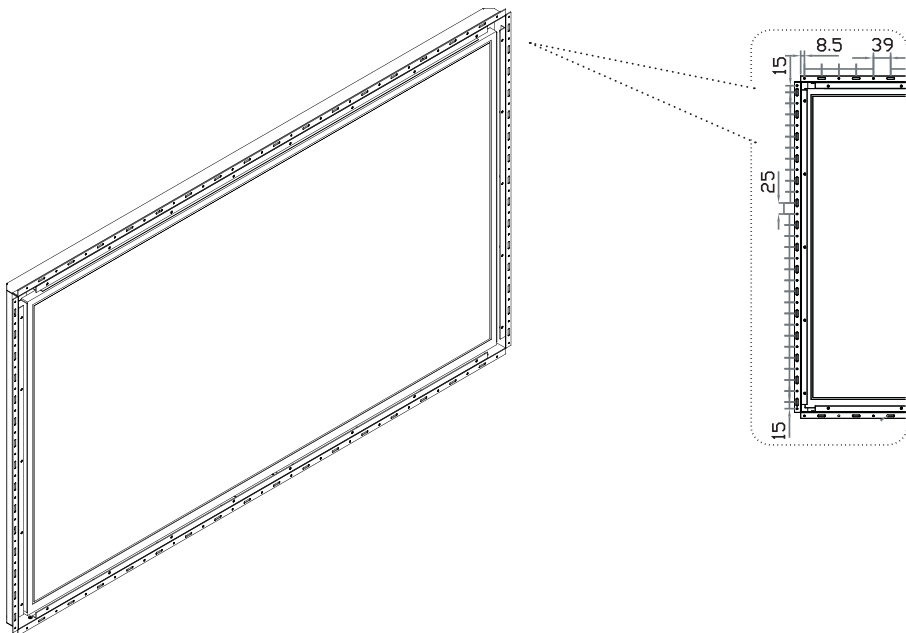| Audio	Audio Output	Connector	3.5mm stereo jack
		Resistance / Power level	30kΩ / 2.8V
	Speaker	Dual Stereo Speaker	10W x 2

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

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

Compliance	EMC	FCC & CE certified
	Safety	CE / LVD certified
	Environment	RoHS2 & REACH compliant

< 4.1 > Product Specifications

Environmental Conditions	Operating	Temperature	0 to 55°C degree
		Humidity	20~90%, 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	5~500Hz 1G RMS random

Physical Specification		AP-K55 / NAP-K55		DP-K55	OP-K55
	Product (W x D x H)	1295 x 89.3 x 776 mm		1269 x 83.1 x 750 mm	1292 x 81.3 x 773 mm
		51 x 3.5 x 30.6 inch		50 x 3.3 x 29.5 inch	50.9 x 3.3 x 30.4 inch
	Packing (W x D x H)	1455 x 212 x 917 mm		1455 x 212 x 917 mm	1455 x 212 x 917 mm
		57.3 x 8.3 x 36.1 inch		57.3 x 8.3 x 36.1 inch	57.3 x 8.3 x 36.1 inch
	Net Weight	40 kg / 88 lb	45 kg / 99 lb	37 kg / 81.4 lb	33 kg / 72.6 lb
	Gross Weight	50 kg / 110 lb	55 kg / 121 lb	47 kg / 103.4 lb	43 kg / 94.6 lb

Applicable Format	Display Port Input	PC Signal	3840 x 2160 x 60Hz
			1920 x 1080 x 60Hz
			1600 x 1200 x 60Hz
			1360 x 768 x 60Hz
			1280 x 1024 x 60 / 75Hz
			1280 x 768 x 60Hz
			1024 x 768 x 60 / 70 / 75Hz
			800 x 600 x 60 / 72 / 75Hz
			720 x 400 x 70Hz
			640 x 480 x 60 / 72 / 75Hz
		Audio Signal	2ch Linear PCM
	HDMI Input	HDMI 2.0	3840 x 2160 x 60Hz
		HDMI 2.0 / 1.4	3840 x 2160 x 30Hz
			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.

○ Power light
● Green = On
● Orange = Power saving
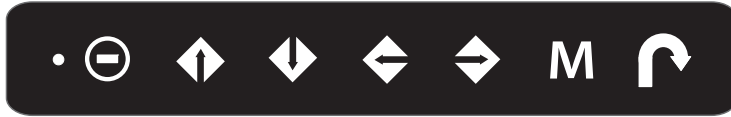
Membrane Switch	Function
⊖	Power on / off LCD
M	Display the OSD menu
⇕ ⇕ ⇔ ⇔	Scrolls through menu options and adjusts the displayed control (To auto adjustment by pressing the button ⇕ for 5 seconds)
↰	Exit the OSD screen Toggle analog, digital & video connection (DVI-D and video options only)

< 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

```
                              PICTURE
                                        DP 3840x2160@60.0Hz
PICTURE   BRIGHTNESS                        70 >
POSITION  CONTRAST                          50 >
          BLACK LEVEL                        50 >
COLOR     ECO                          STANDARD >
OSD SET
RESET
PIP
MISC      ▲/▼: UP / DOWN      ◀/▶: − / +    MENU : EXIT
                                          M91KW430STD701LG
```
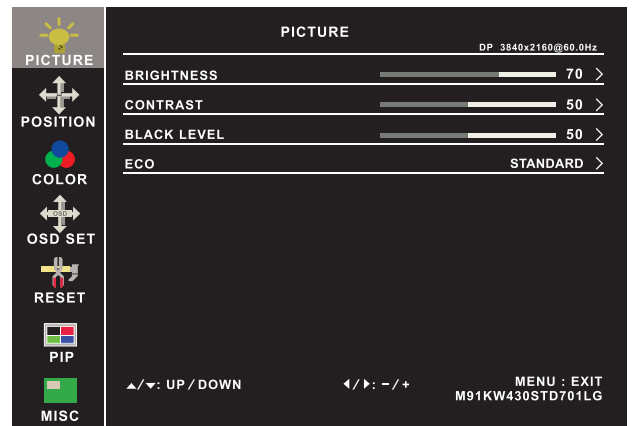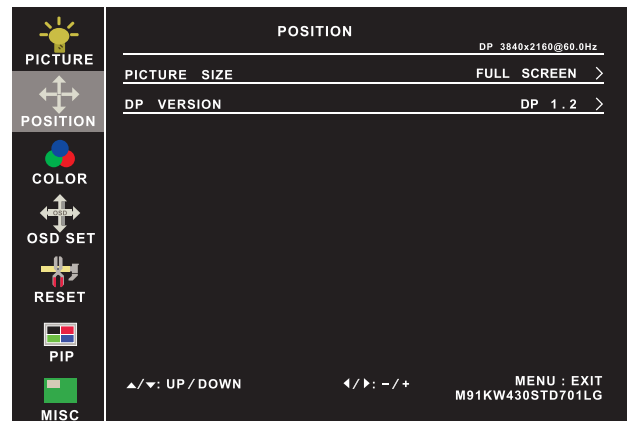
② Position

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

DP version : Select the DP version

```
                              POSITION
                                        DP 3840x2160@60.0Hz
PICTURE   PICTURE  SIZE              FULL  SCREEN >
POSITION  DP  VERSION                  DP  1 . 2 >
COLOR
OSD SET
RESET
PIP
MISC      ▲/▼: UP / DOWN      ◀/▶: − / +    MENU : EXIT
                                          M91KW430STD701LG
```

③ Color

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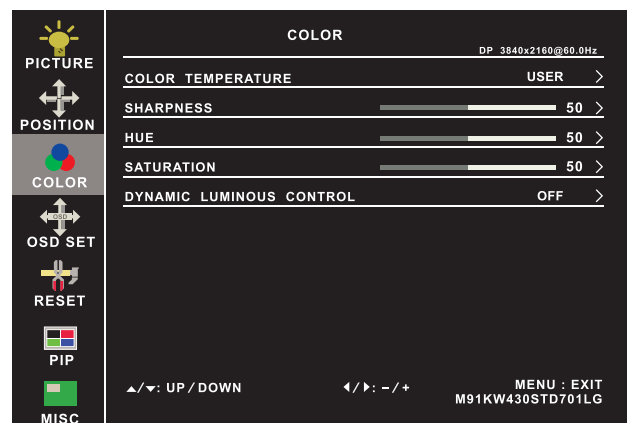Red / Green / Blue color balance

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

```
                              COLOR
                                        DP 3840x2160@60.0Hz
PICTURE   COLOR  TEMPERATURE              USER   >
POSITION  SHARPNESS                          50 >
          HUE                                50 >
COLOR     SATURATION                         50 >
          DYNAMIC  LUMINOUS  CONTROL        OFF >
OSD SET
RESET
PIP
MISC      ▲/▼: UP / DOWN      ◀/▶: − / +    MENU : EXIT
                                          M91KW430STD701LG
```

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°

```
                              OSD  SET
                                        DP 3840x2160@60.0Hz
PICTURE   LANGUAGE
POSITION  OSD H−POSITION                     50 >
          OSD V−POSITION                     50 >
COLOR     OSD  TIME  OUT                     60 >
          OSD  TRANSPARENCY                   0 >
OSD SET   OSD  SIZE                      NORMAL >
          OSD  ROTATION                     OFF >
RESET
PIP
MISC      ▲/▼: UP / DOWN      ◀/▶: − / +    MENU : EXIT
                                          M91KW430STD701LG
```
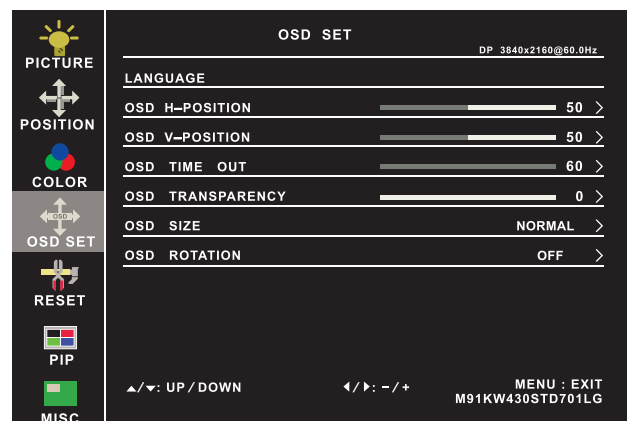
⑤ Reset

Reset   : Return the adjustment back to factory setting

```
                              RESET
                                        DP  3840x2160@60.0Hz
PICTURE    RESET

POSITION

COLOR

OSD SET

RESET

PIP        ▲/▼: UP / DOWN        ◀/▶: – / +      MENU : EXIT
                                                 M91KW430STD701LG
MISC
```
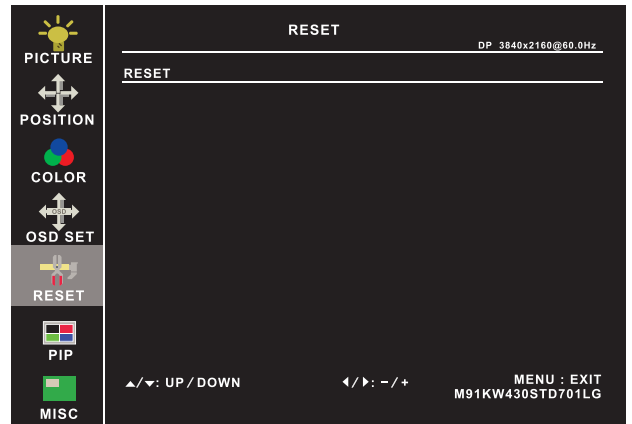
⑥ PIP

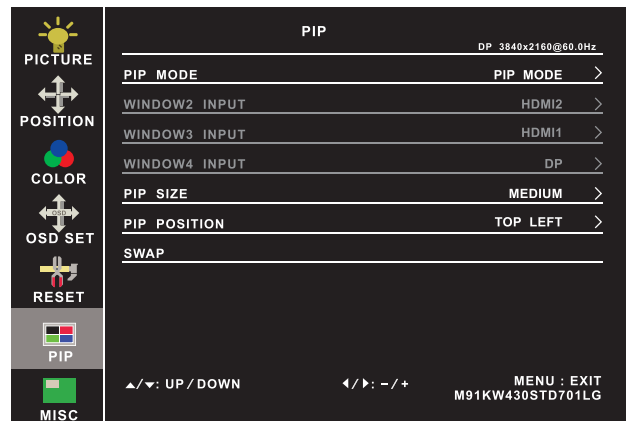PIP mode   : Enter into PIP / PBP setting - PIP MODE /
                 PBP 2WIN (Main screen + 1 sub screen) /
                 PBP 3WIN (Main screen + 2 sub screen) /
                 PBP 4WIN (Main screen + 3 sub screen)
                 Select the signal input of each sub screen

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
PICTURE    PIP  MODE                    PIP  MODE    ›

POSITION   WINDOW2  INPUT                  HDMI2      ›
           WINDOW3  INPUT                  HDMI1      ›
COLOR      WINDOW4  INPUT                     DP      ›
           PIP  SIZE                      MEDIUM      ›
OSD SET    PIP  POSITION                TOP  LEFT     ›
           SWAP
RESET

PIP        ▲/▼: UP / DOWN        ◀/▶: – / +      MENU : EXIT
                                                 M91KW430STD701LG
MISC
```
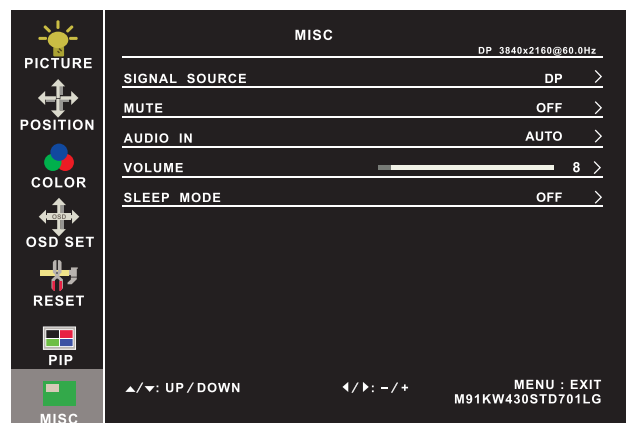
⑦ MISC

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

Mute   : Turn off the surrounding sound

Audio in   : Auto / Line in / DP

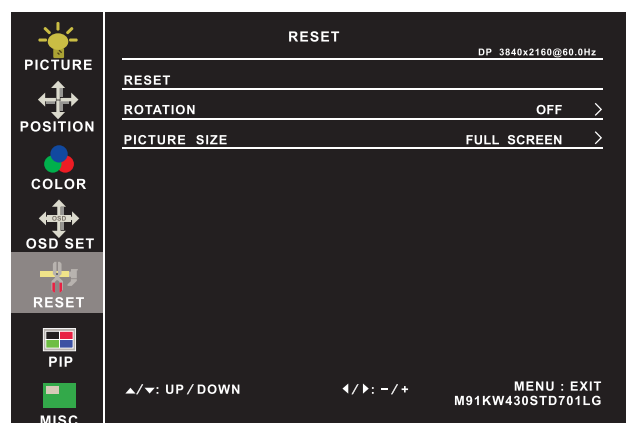Volume   : Adjust the volume of sound

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

```
                              MISC
                                        DP  3840x2160@60.0Hz
PICTURE    SIGNAL  SOURCE                   DP      ›

POSITION   MUTE                            OFF      ›
           AUDIO  IN                      AUTO      ›
COLOR      VOLUME                   ▭        8      ›
           SLEEP  MODE                     OFF      ›
OSD SET

RESET

PIP        ▲/▼: UP / DOWN        ◀/▶: – / +      MENU : EXIT
                                                 M91KW430STD701LG
MISC
```

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

```
                              RESET
                                        DP  3840x2160@60.0Hz
PICTURE    RESET

POSITION   ROTATION                       OFF      ›
           PICTURE  SIZE              FULL  SCREEN   ›
COLOR

OSD SET

RESET

PIP        ▲/▼: UP / DOWN        ◀/▶: – / +      MENU : EXIT
                                                 M91KW430STD701LG
MISC
```

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

< 4.3.1 > Picture in Picture (PIP)
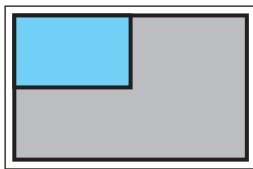
Mode
Display the Sub screen in the Main screen.

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

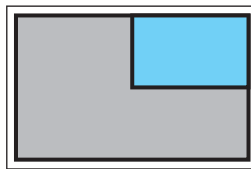**Main screen** ←——— [diagram] ———→ **Sub screen**
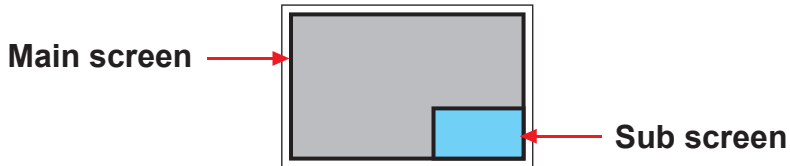
Position
Adjust the position of the Sub screen (top left, bottom left, top right, bottom right)
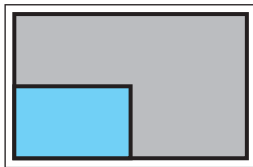
OSD Menu → MISC → PIP Position → top left / top right / bottom left / bottom right
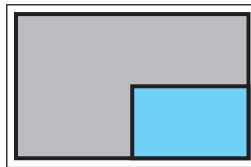
top left

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

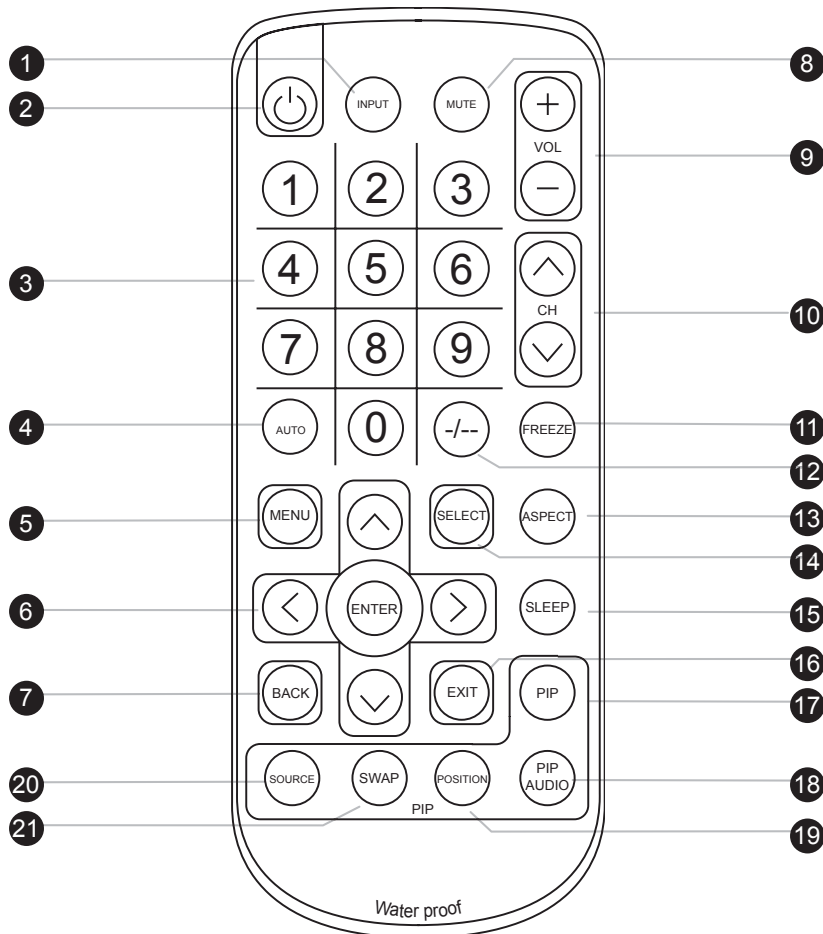| LCD Monitor	Main / Sub screen
1920 x 1200	955 x 716
1920 x 1080	955 x 716
1440 x 900	715 x 536
1366 x 768	678 x 508
1280 x 1024	635 x 476

< 4.3.3 > PIP / PBP Source

To select an input signal for PIP / PBP Sub screen.

OSD Menu → MISC → PIP Source → HDMI / SDI

The PIP / PBP is operable in the following table :

Main \ Sub	HDMI	SDI
HDMI	X	O
SDI	O	X

< 4.4 > Remote Controller (RC-2)

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

< Part 5 > Options

< 5.1 > Option Table

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

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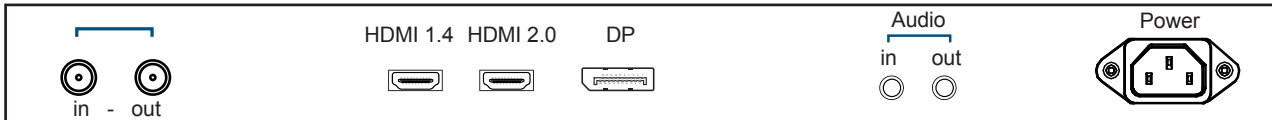
INPUT	3G-SDI IN	BNC x 1 / 0.8Vp-p (75 ohm)
	3G-SDI OUT	BNC x 1 / Active through, equalized & relocked

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

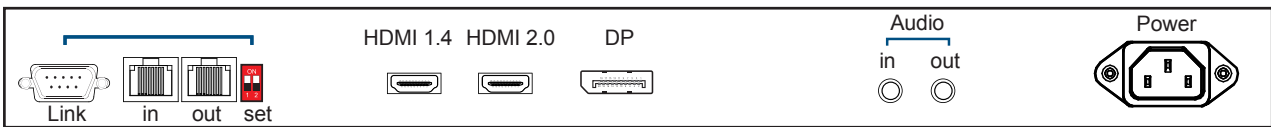| Max. Transmission Distance 75 ohm coaxial cable	3G-SDI	150m at 2.97Gb/s
	HD-SDI	250m at 1.485Gb/s
	SD-SDI	480m at 270Mb/s

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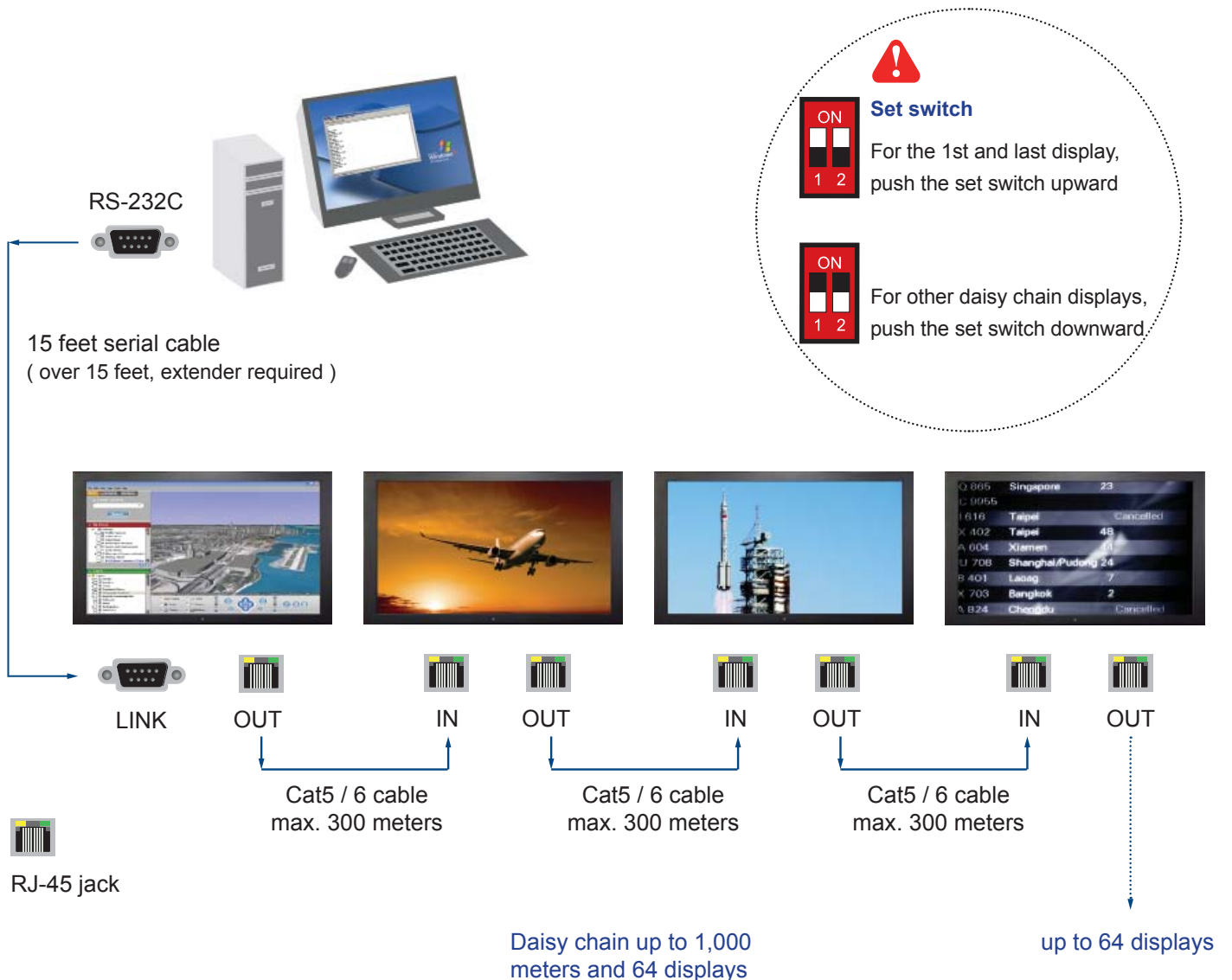
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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

| Link | in out set | HDMI 1.4 | HDMI 2.0 | DP | Audio in out | Power |

*** 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

< 5.4 > Options : Touchscreen & driver

K55" USB Touchscreen Specification

Model	K55-IR10 Multi-touch
Technology	Infrared
Touch Point	10
Input Type	Pen, Finger, Finger of gloved hand activation
Touch Point Accuracy	± 2 mm
Response Speed	≤ 15 ms
Activation Force	No minimum touch activation force
Touch Durability	Unlimited
Glass Thickness	3 mm
Connector	A-type USB
Operating System	Windows 7 / Windows 10

- 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

HDMI 1.4   HDMI 2.0   DP   Audio   Power
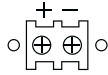   in   out
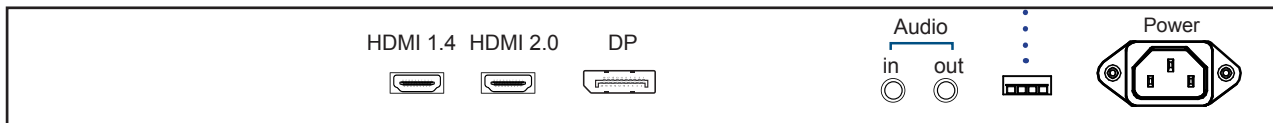
K55-IR10 Driver

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.

Model	24V	48V	125V
Input rating			
Input voltage:	24-Volt	48-Volt	110-Volt
Input range:	18 ~ 36V	36 ~ 75V	43 ~ 160V
Input current			
- No load	100 mA	50 mA	10 mA
- Full load	7386 mA	3611 mA	1540 mA
Output rating			
Output voltage:	24-Volt	24-Volt	24-Volt
Output current:	6.25A	6.25A	6.25A
Efficiency	88%	90%	89%

***   **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.

< 6 > Ultraview K55 Family

450 cd/m² Brightness	1500 cd/m² Sunlight Readable Brightness

8mm aluminum front bezel

AP-K55

8mm aluminum front bezel
NEMA 4 / IP65 front protection

NAP-K55

Aluminum front cover

DP-K55

Universal open frame

OP-K55

MP-K55

Industrial Display Kit
- 4K 55" LED
- LCD controller
- AC power

8mm aluminum front bezel

HAP-K55

8mm aluminum front bezel
NEMA 4 / IP65 front protection

NHAP-K55

Aluminum front cover

HDP-K55

Universal open frame

HOP-K55

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