

User Manual 32" 4K 3840 x 2160@60Hz LED-backlit LCD



AP-K32 / HAP-K32

Aluminum front bezel



NAP-K32 / HNAP-K32

Front NEMA4 / IP65



DP-K32 / HDP-K32

Aluminum Front Panel



OP-K32 / HOP-K32

Universal Open Frame

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.

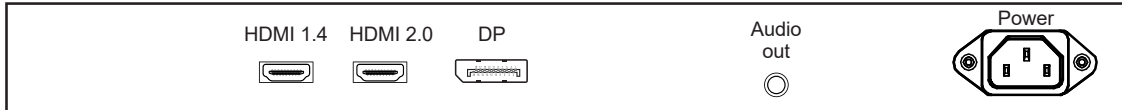
- ③ Gently wipe the surface. Use as little pressure as possible.
- ④ Wait until your monitor is completely dry before plugging it in and powering it up.

AP-K32 / NAP-K32

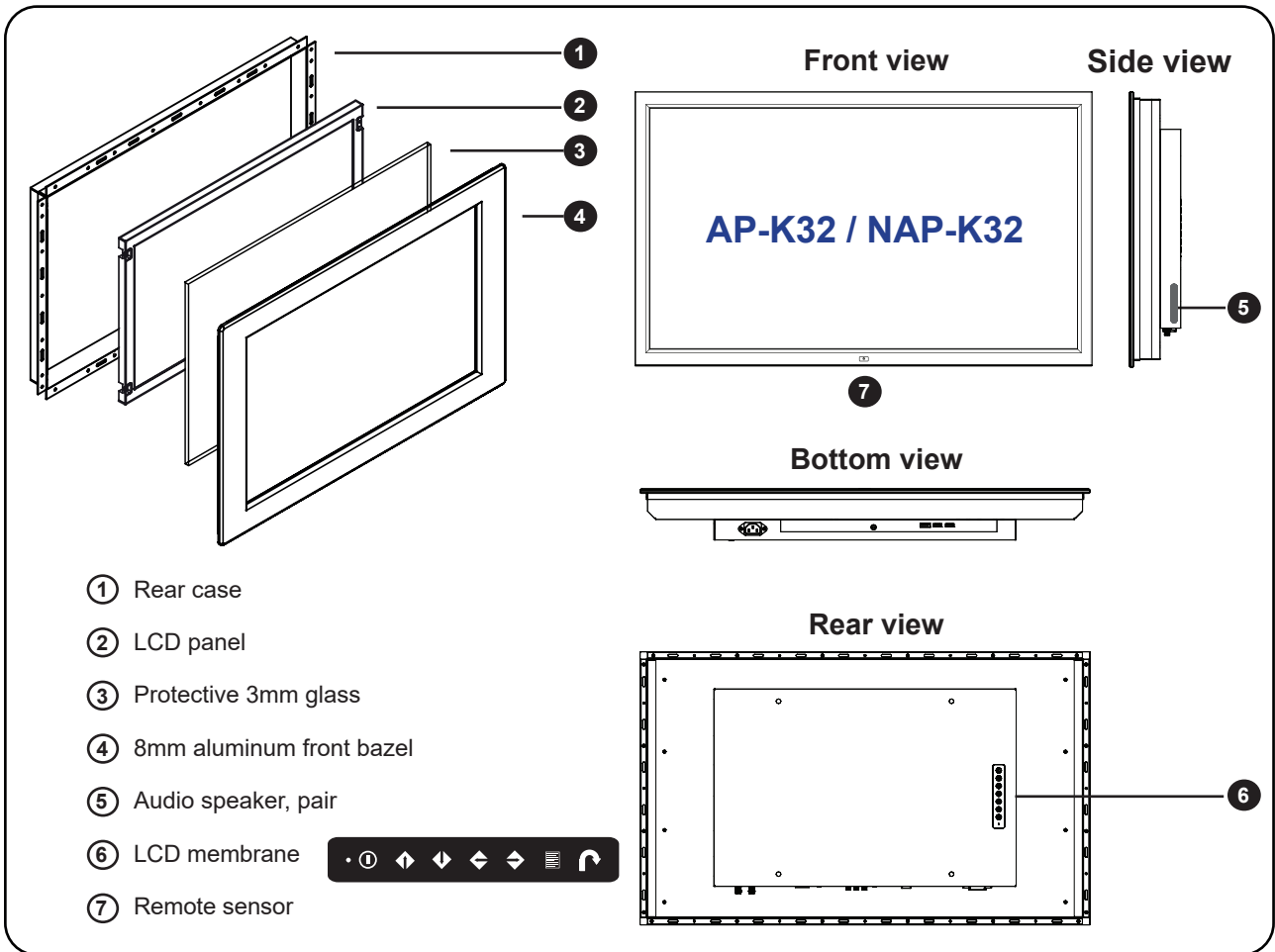


- 32" 4K LCD Display X 1**
- 6ft DP cable X 1**
- Power cord X 1**
- Remote controller X 1**

Basic I/O



< 1.2 > Structure Diagram

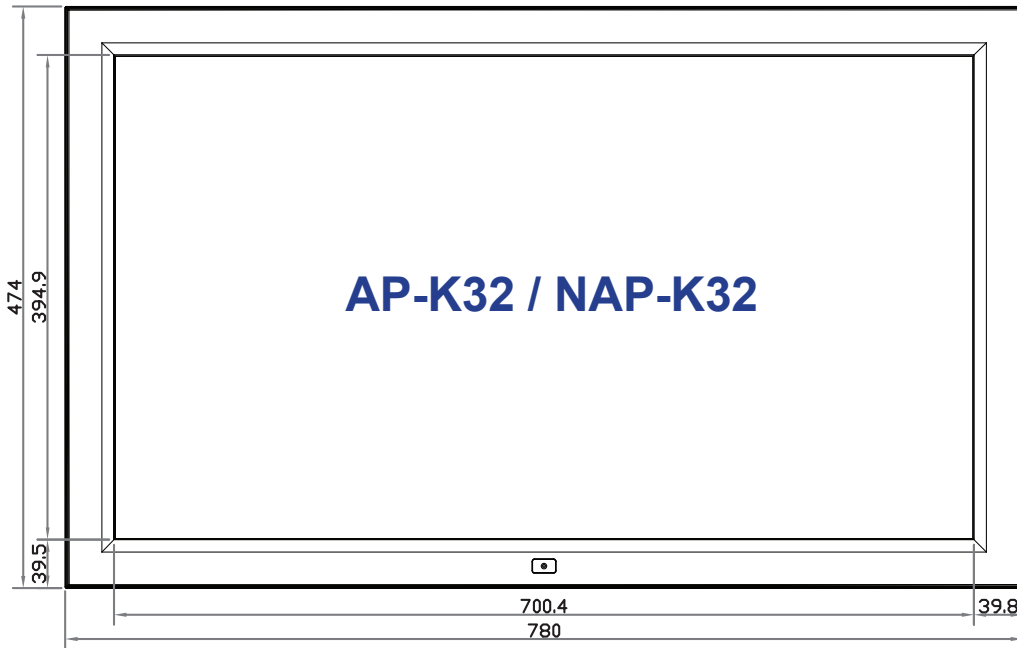


| Model | Product Dimension (W x D x H) | Packing Dimension (W x D x H) | Net Weight | Gross Weight |
|---------------------------------|---|--|------------------|--------------------|
| AP-K32 HAP-K32 | 780 x 88.2 x 474 mm 30.7 x 3.5 x 18.7 inch | 910 x 195 x 580 mm 35.8 x 7.7 x 22.8 inch | 20.9 kg 46 lb | 25.7 kg 56.5 lb |

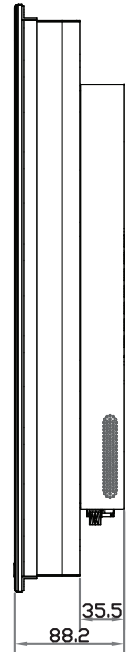
< 1.2 > Dimension

32" 4K Display

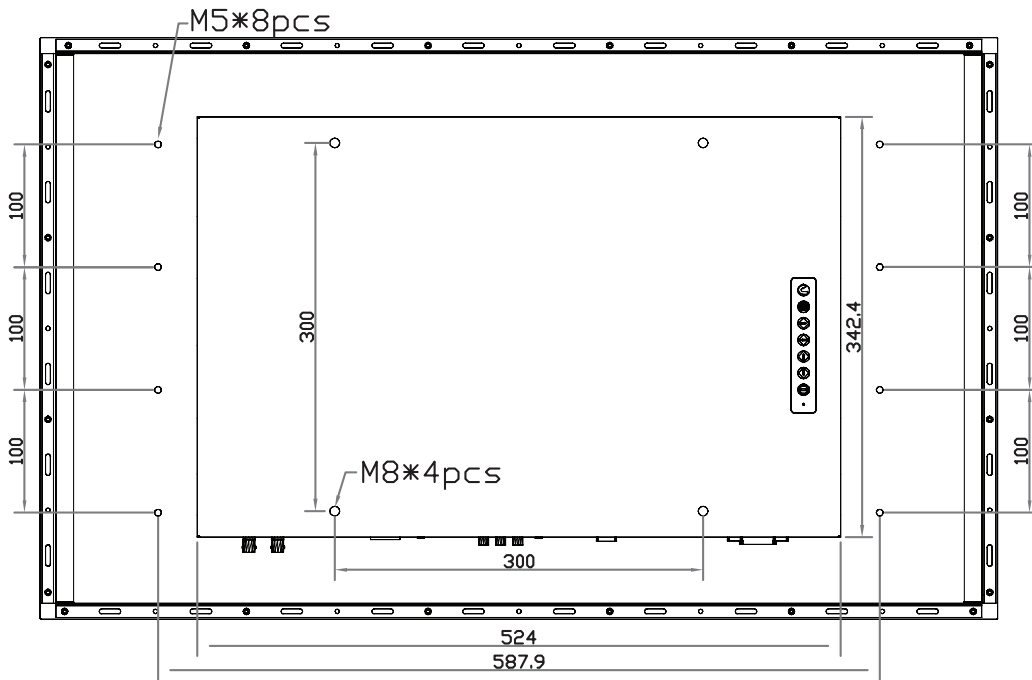
Front View



Side View

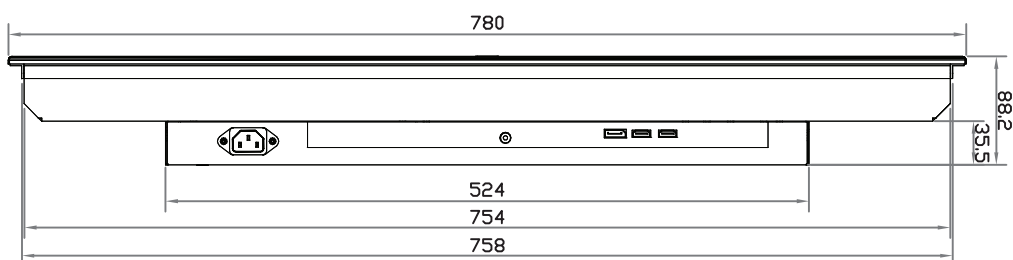


Rear View

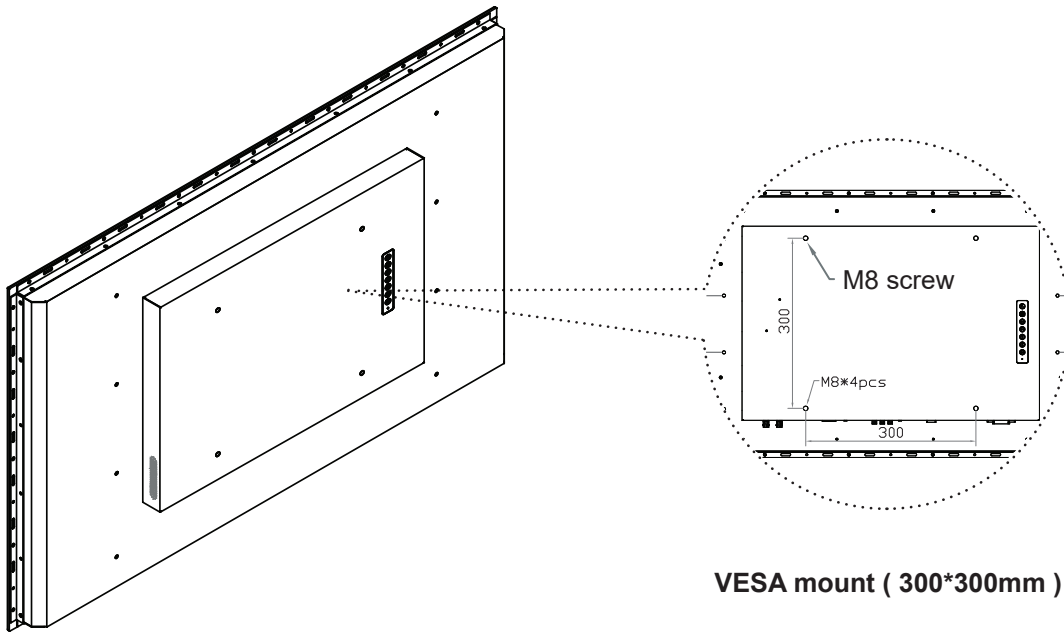


UNIT : mm
1mm = 0.03937 inch

Bottom View



< 1.3 > VESA Installation



VESA mount (300*300mm)

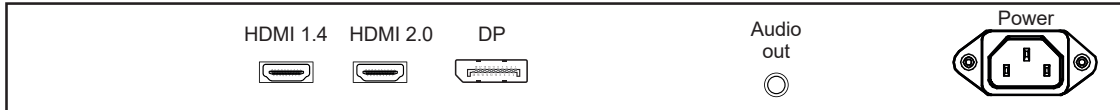
- Hardware and M8*4 pcs for VESA mount are not provided

DP-K32

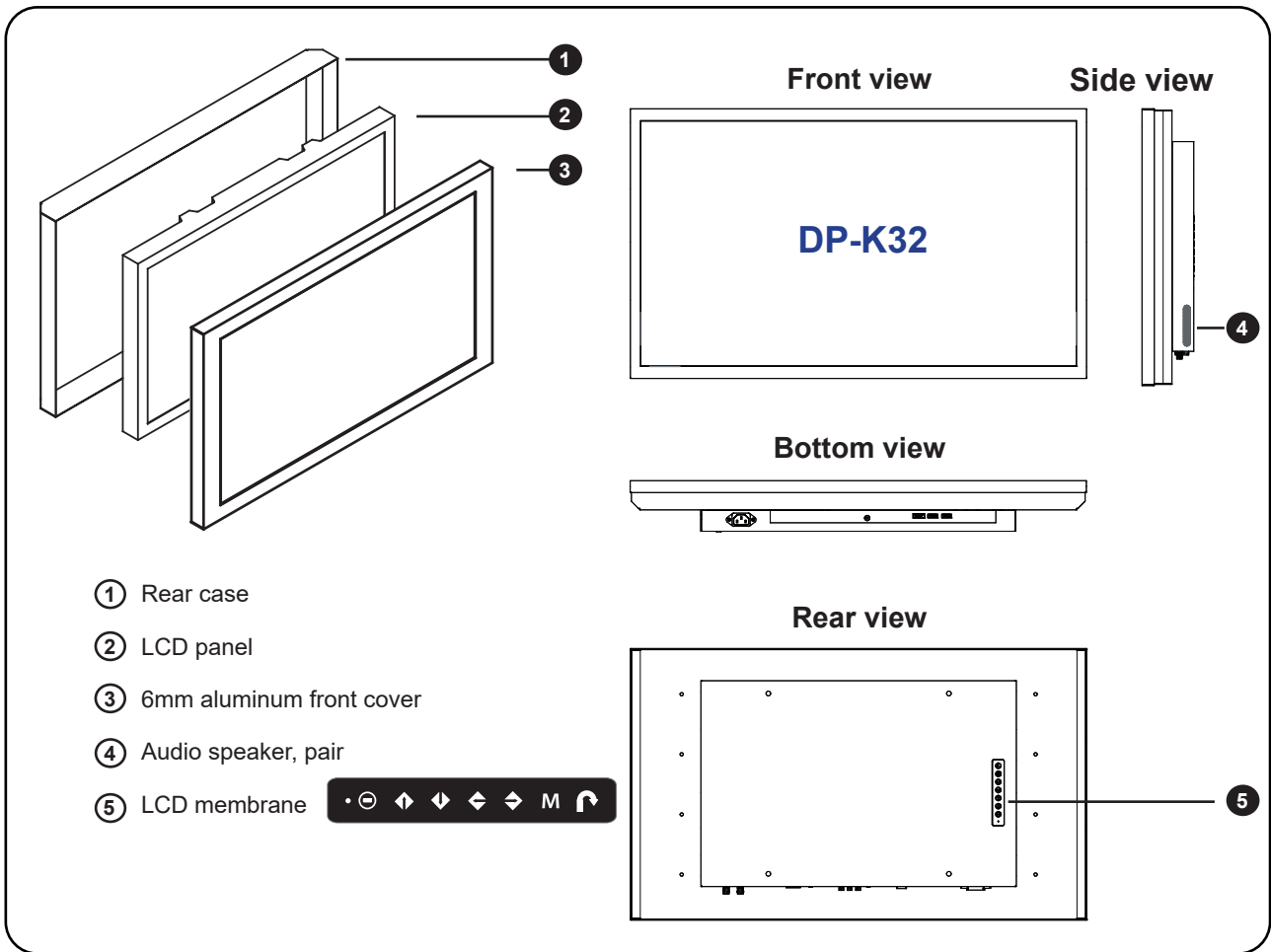


- 32" 4K LCD Display X 1**
- 6ft DP cable X 1**
- Power cord X 1**
- Remote controller X 1**

Basic I/O



< 2.2 > Structure Diagram

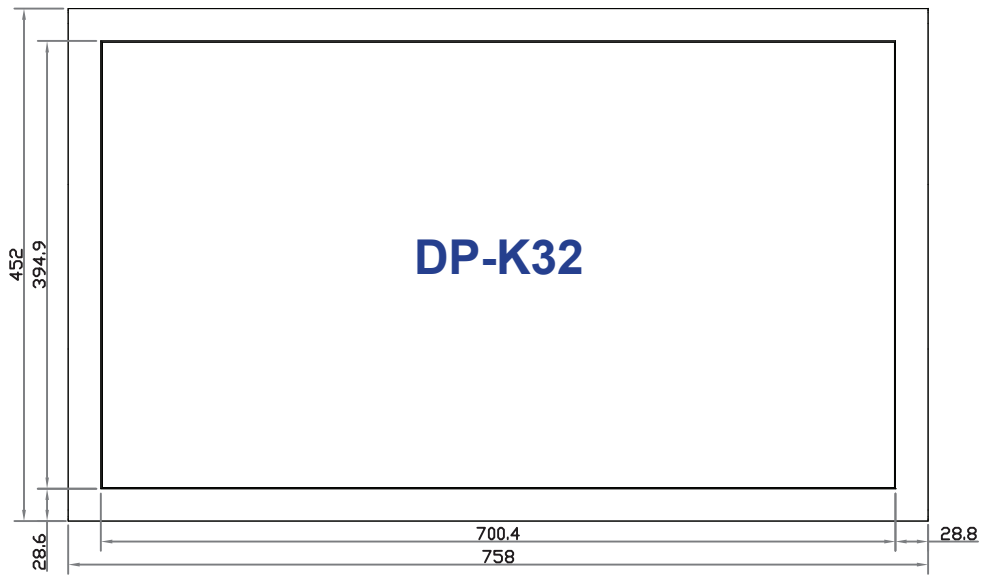


| Model | Product Dimension (W x D x H) | Packing Dimension (W x D x H) | Net Weight | Gross Weight |
|--------|---|--|--------------------|--------------------|
| DP-K32 | 758 x 84.2 x 452 mm 29.8 x 3.3 x 17.8 inch | 910 x 195 x 580 mm 35.8 x 7.7 x 22.8 inch | 18.7 kg 41.1 lb | 23.5 kg 51.7 lb |

< 2.2 > Dimension

32" 4K Display

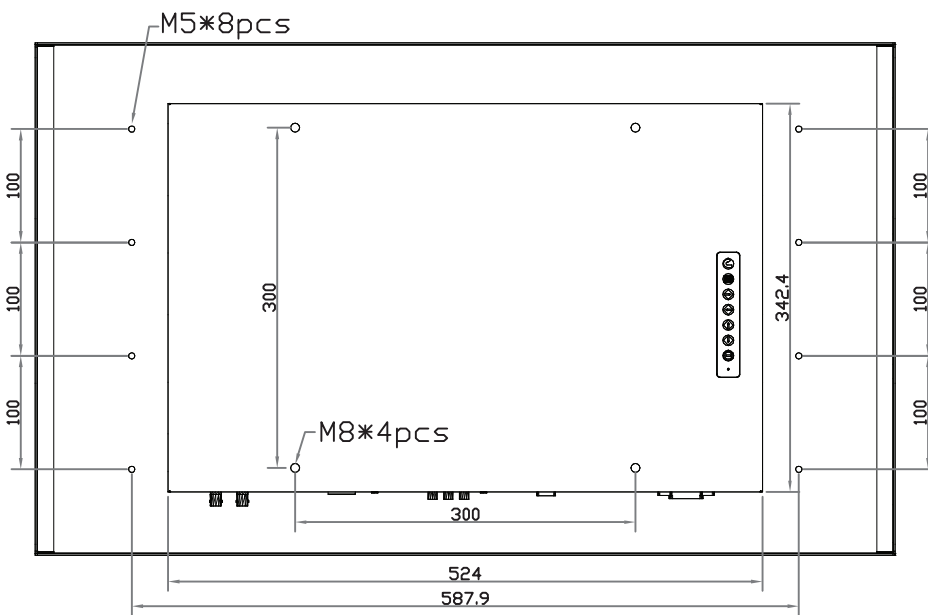
Front View



Side View

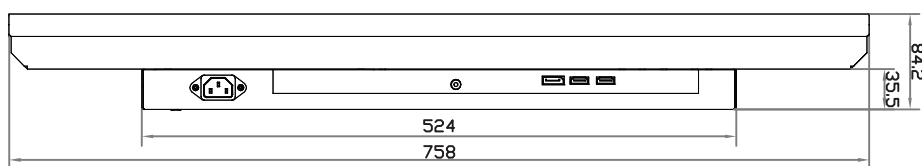


Rear View

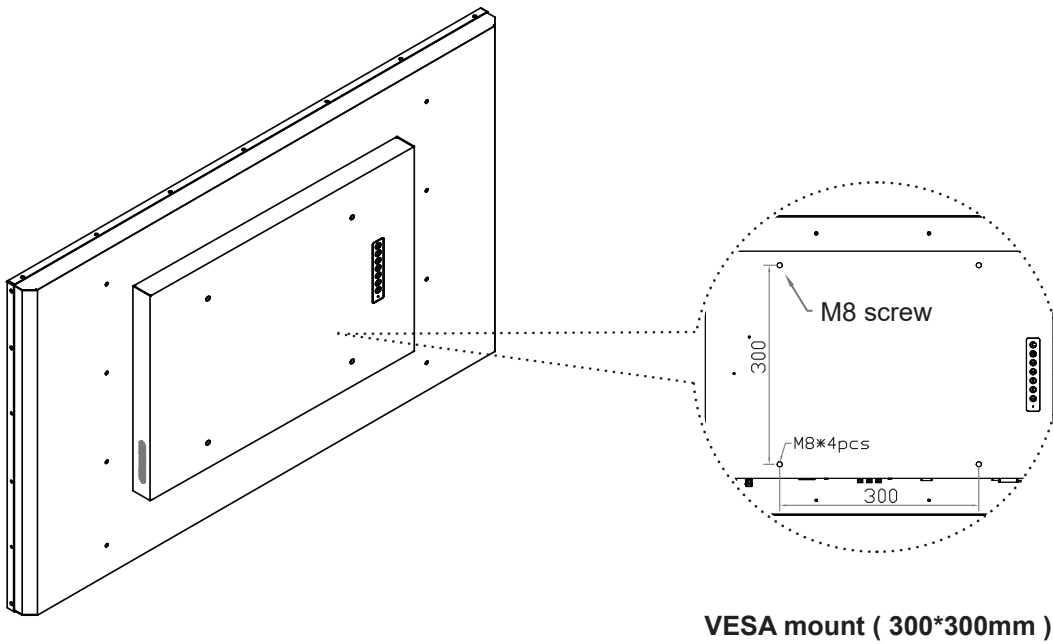


UNIT : mm
1mm = 0.03937 inch

Bottom View



< 2.3 > VESA Installation



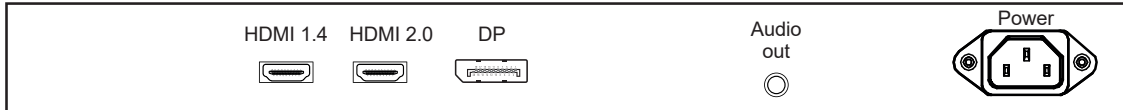
- Hardware and M8*4 pcs for VESA mount are not provided

OP-K32

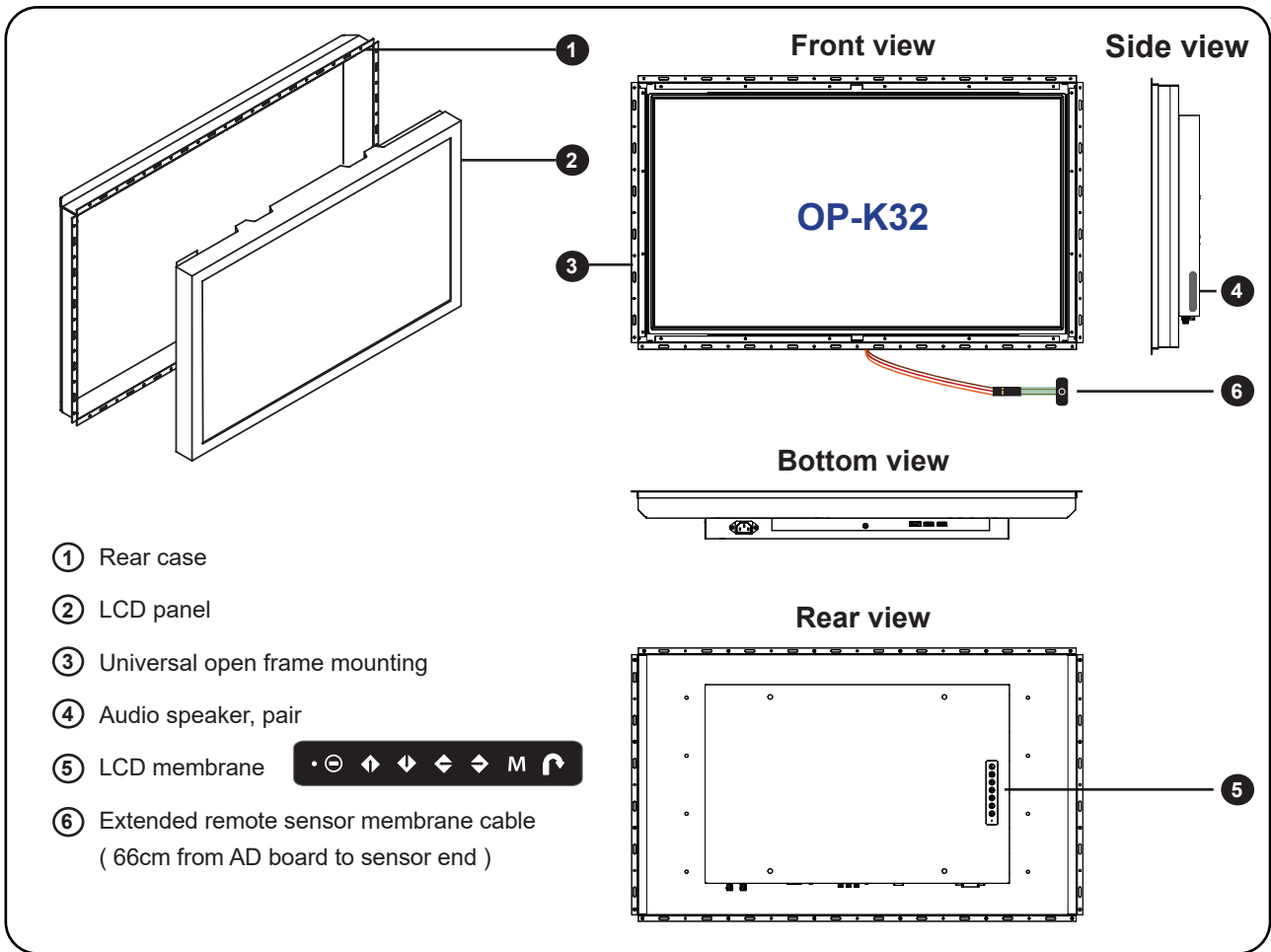


- 32" 4K LCD Display X 1**
- 6ft DP cable X 1**
- Power cord X 1**
- Remote controller X 1**

Basic I/O



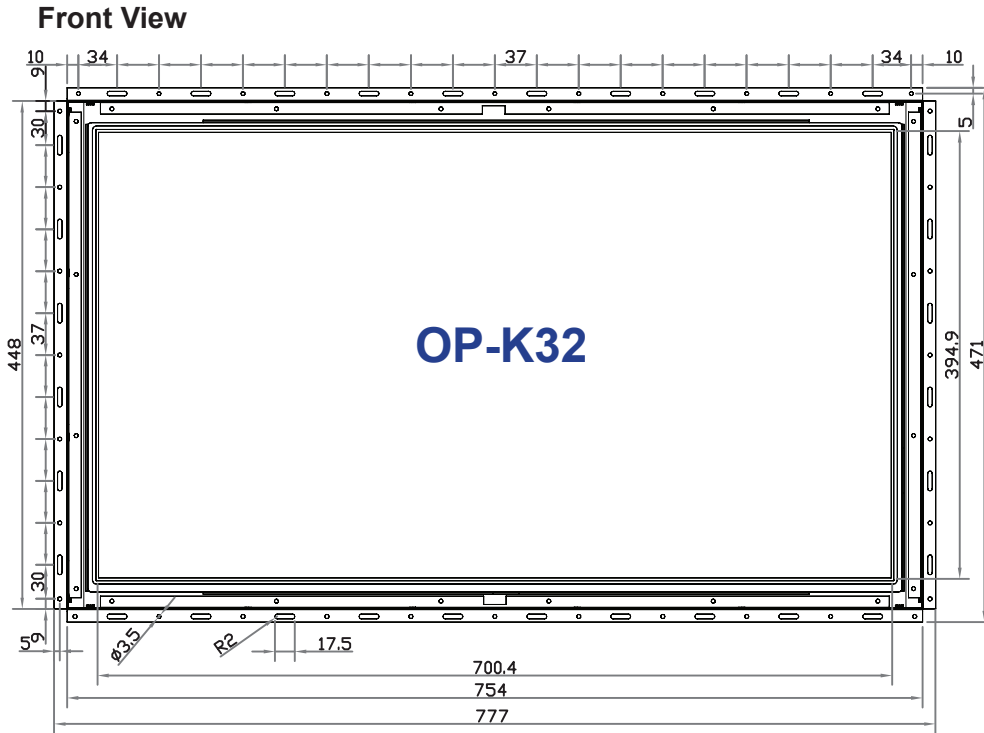
< 3.2 > Structure Diagram



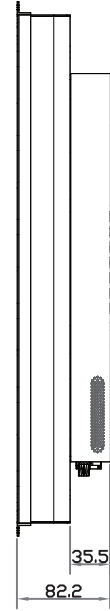
| Model | Product Dimension (W x D x H) | Packing Dimension (W x D x H) | Net Weight | Gross Weight |
|--------|---|--|--------------------|--------------------|
| OP-K32 | 777 x 82.2 x 471 mm 30.6 x 3.2 x 18.5 inch | 910 x 195 x 580 mm 35.8 x 7.7 x 22.8 inch | 16.4 kg 36.1 lb | 21.2 kg 46.6 lb |

< 3.2 > Dimension

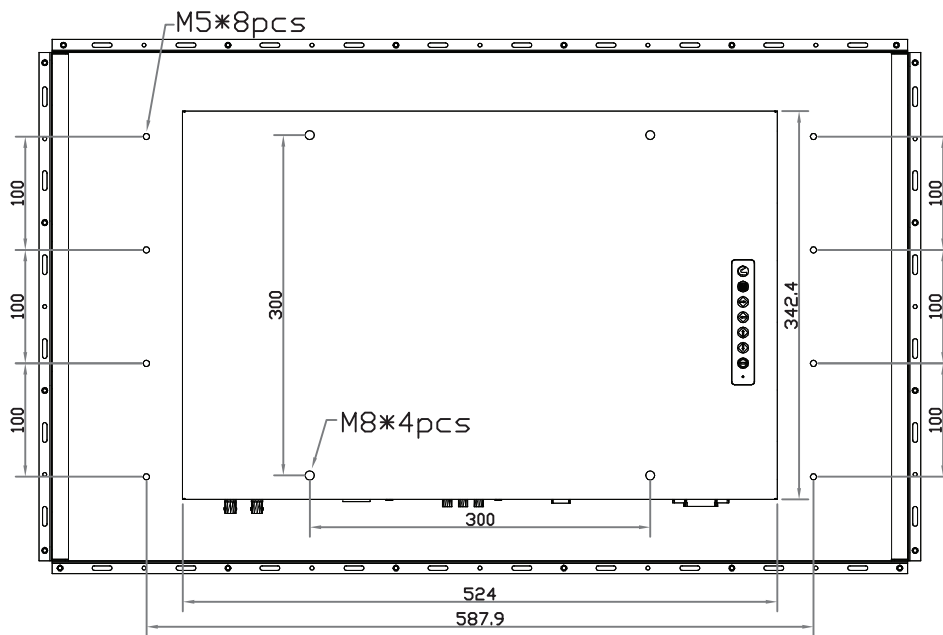
32" 4K Display



Side View

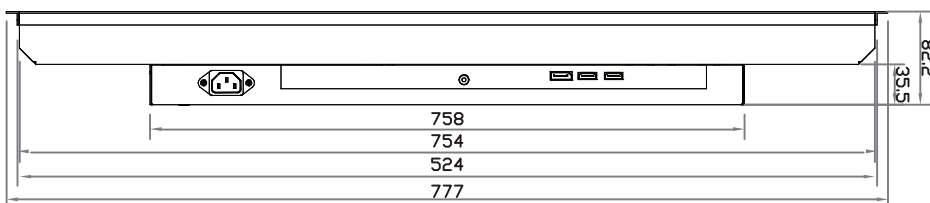


Rear View



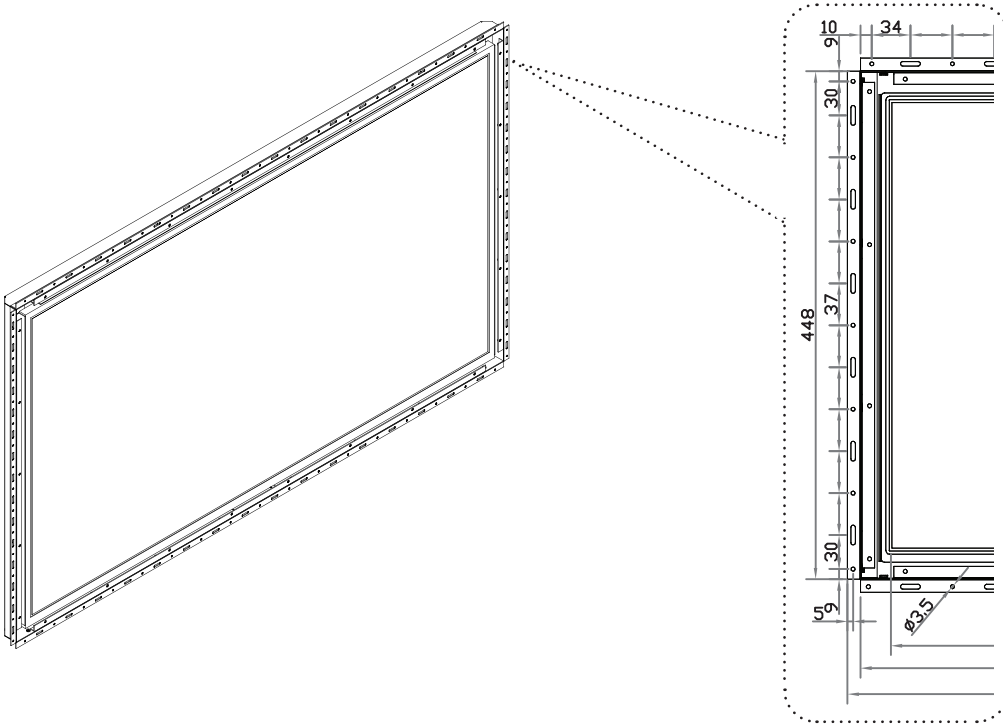
UNIT : mm
1mm = 0.03937 inch

Bottom View

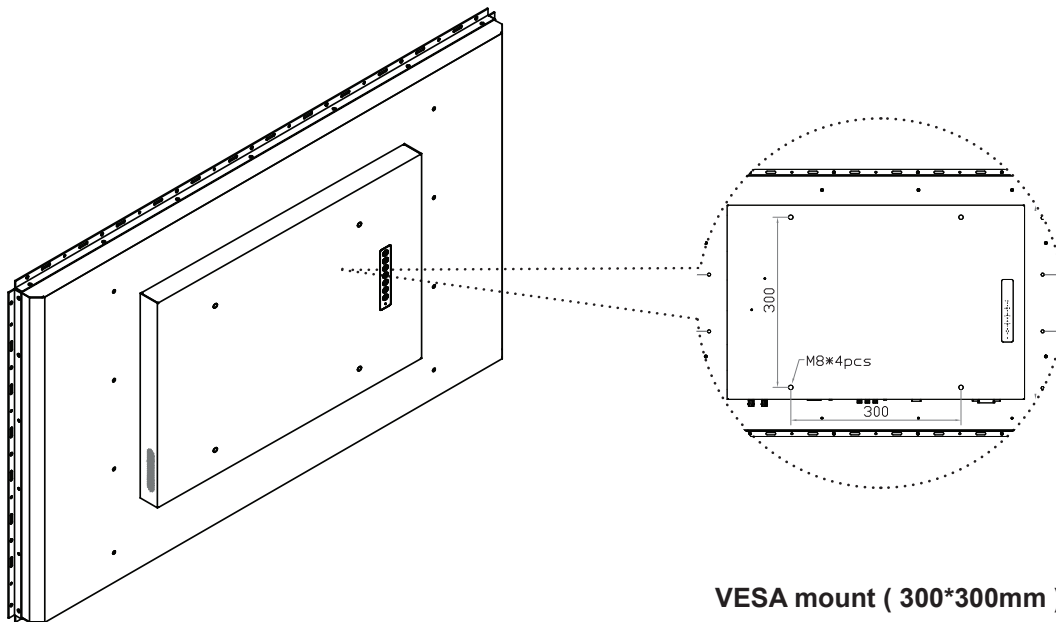


< 3.3 > Installation

(I) Universal mount



(II) VESA mount (300*300mm)



VESA mount (300*300mm)

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

< Part 4 >

< 4.1 > Product Specifications

32" 4K Display

| Mechanical Design | AP-K32 | NAP-K32 | DP-K32 | OP-K32 |
|----------------------------|-----------------|---------------|-------------|------------|
| Protection | 8mm front bezel | NEMA 4 / IP65 | front cover | open frame |
| Front Panel | Black, RAL 9005 | | | - |
| Rear Casing | Black, RAL 9005 | | | |
| VESA mount | 300 x 300 mm | | | |
| Universal mount | - | - | - | ready |
| Overhead tilted wall-mount | option | | option | - |
| Desktop stand | option | | option | - |

| LED-backlit LCD Panel | |
|----------------------------------|------------------------------------|
| Brightness (cd/m ²) | 300 |
| Contrast Ratio (typ.) | 1000 : 1 |
| MTBF (hrs) | 30,000 |
| Panel Size (diagonal) | 31.5-inch Widescreen TFT color LCD |
| Native resolution | 3840 x 2160@60Hz |
| Colors | 1.07 Billion, 10-bit |
| Viewing Angle (L/R/U/D) | 89/89/89/89 |
| Response Time (ms) | 20 |
| Dot pitch (mm) | 0.181 |
| Display Area (mm) | 698.4H x 392.85V |
| Surface treatment | Anti-glare |
| Surface hardness | 3H |
| Backlight Type | LED |

| 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 | Standard |
|-------------------|---------------------------------------|
| Input | Auto-sensing 100 to 240VAC, 50 / 60Hz |
| Consumption: | |
| Screen ON | Max. 56W |
| 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

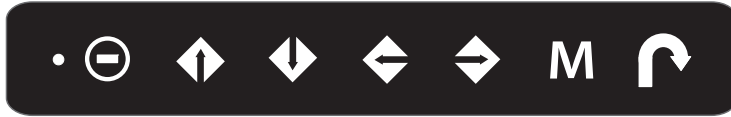
| Environmental Conditions | | |
|--------------------------|-------------|------------------------------------|
| Operating | Temperature | 0 to 55°C degree |
| | Humidity | 10~90%, non-condensing |
| | Altitude | 16,000 ft |
| Storage / Non-operating | Temperature | -20 to 60°C degree |
| | Humidity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






| Physical Specification | AP-K32 | NAP-K32 | DP-K32 | OP-K32 |
|------------------------|-------------------|---------|-------------------|--------|
| Product (W x D x H) | 780 x 88.2 x 474 | | 758 x 84.2 x 452 | |
| | | | | |
| mm | 30.7 x 3.5 x 18.7 | | 29.8 x 3.3 x 17.8 | |
| | | | | |
| inch | 910 x 195 x 580 | | 910 x 195 x 580 | |
| | | | | |
| Packing (W x D x H) | 35.8 x 7.7 x 22.8 | | 35.8 x 7.7 x 22.8 | |
| | | | | |
| mm | 20.9 kg / 46 lb | | 23.9 kg / 52.6 lb | |
| | | | | |
| inch | 25.7 kg / 56.5 lb | | 28.7 kg / 63.1 lb | |
| | | | | |
| Net Weight | 16.4 kg / 36.1 lb | | 21.2 kg / 46.6 lb | |
| Gross Weight | Dark | | Aluminum | |
| Chassis color | Aluminum | | | |
| Chassis materials | | | | |

* 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 | HDMI 2.0 / PC signal | 2ch Linear PCM | |
| | | HDMI 1.4 | Same as Display port |
| | | | 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 | | |

- 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)

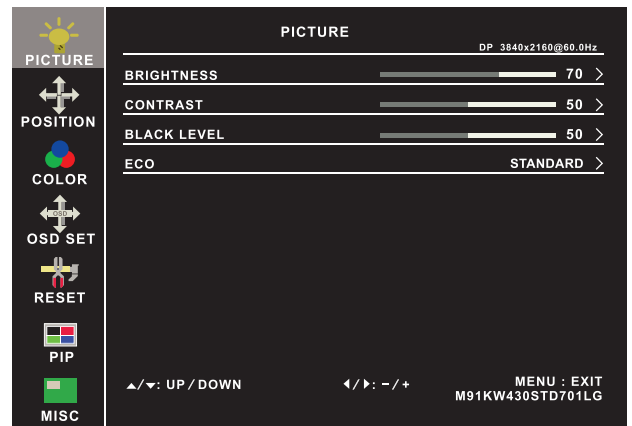
① Picture

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

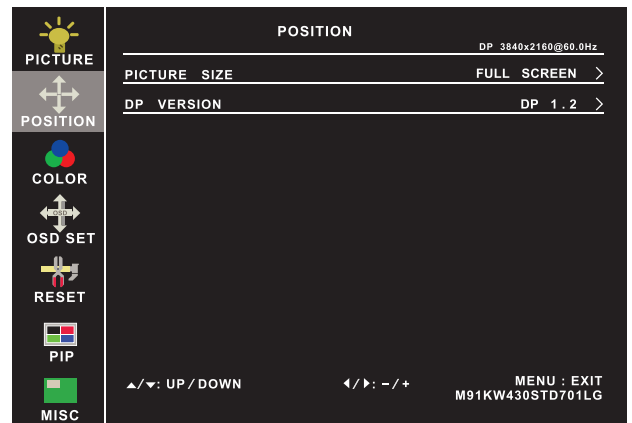
Eco : Screen in power saving mode



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

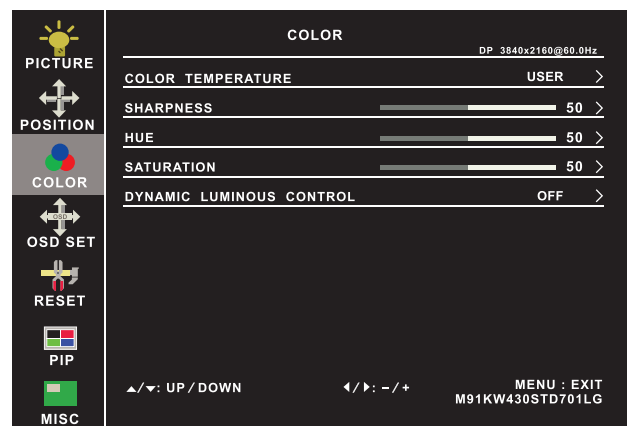
Sharpness : Adjust the image from weak to sharp

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

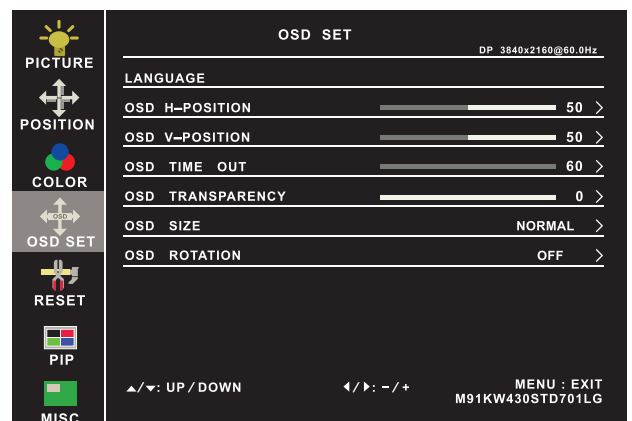
OSD V-Position : Align the screen image up or down

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°

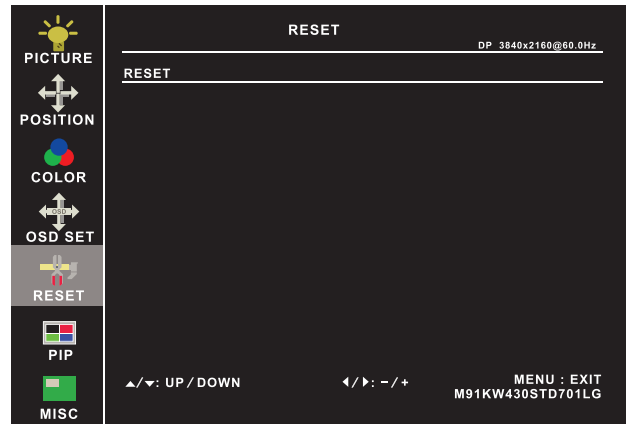


< 4.2 > On-screen Display Operation (OSD)

32" 4K Display

⑤ Reset

Reset : Return the adjustment back to factory setting



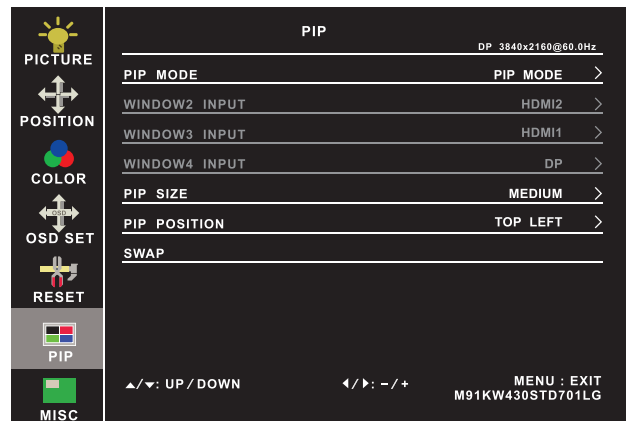
⑥ PIP

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

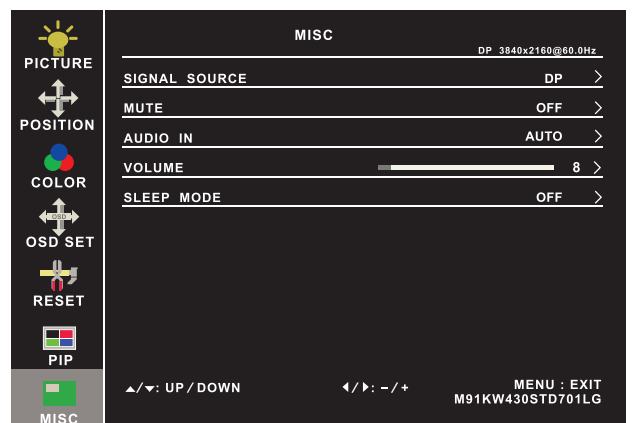
Signal source : Select the signal source - DP / HDMI1 / HDMI2

Mute : Turn off the surrounding sound

Audio in : Auto / Line in / DP

Volume : Adjust the volume of sound

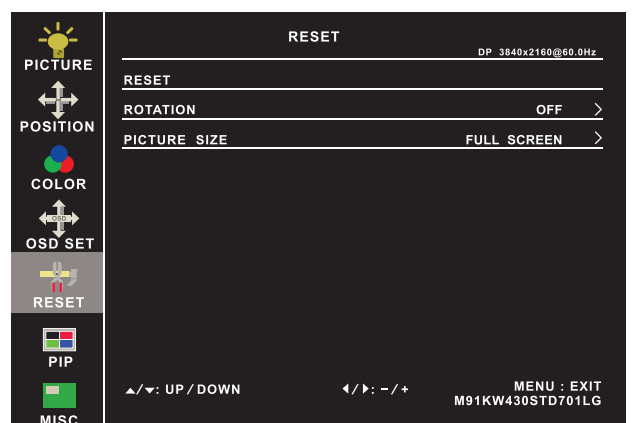
Sleep mode : Set the off time - 10 min / 20 min / 30 min / 50 min / 60 min / 120 min / 240 min



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



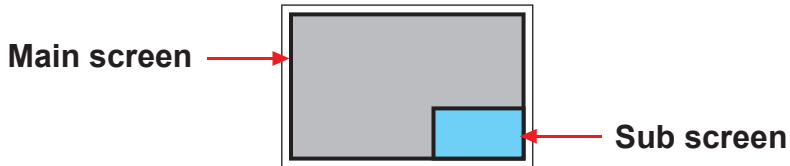
< 4.3 > How to Use Picture In Picture (PIP) / Picture By Picture (PBP)

< 4.3.1 > Picture in Picture (PIP)

Mode

Display the Sub screen in the Main screen.

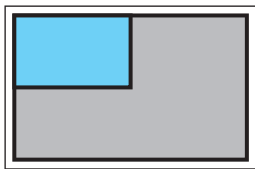
OSD Menu → MISC → PIP Mode → Large / Small / OFF



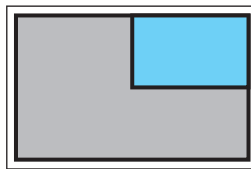
Position

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

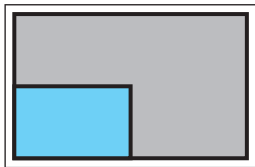
OSD Menu → MISC → PIP Position → top left / top right / bottom left / bottom right



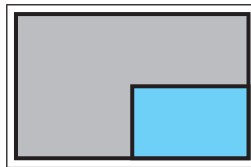
top left



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

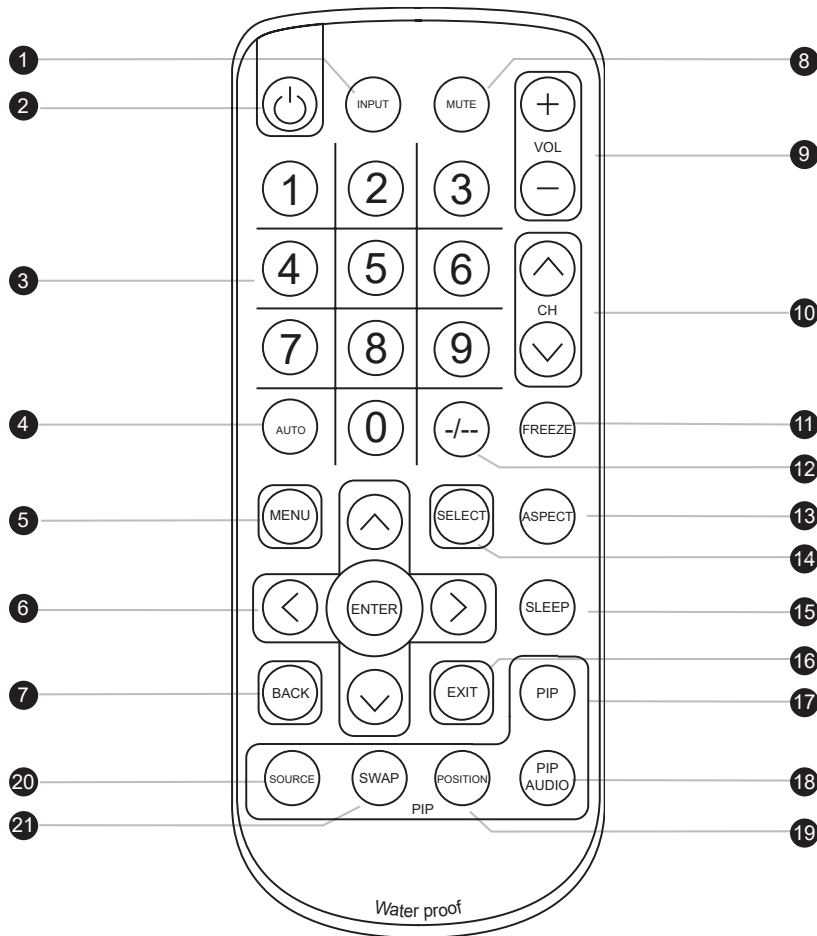
To select an input signal for PIP / PBP Sub screen.

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 > 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 | | 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

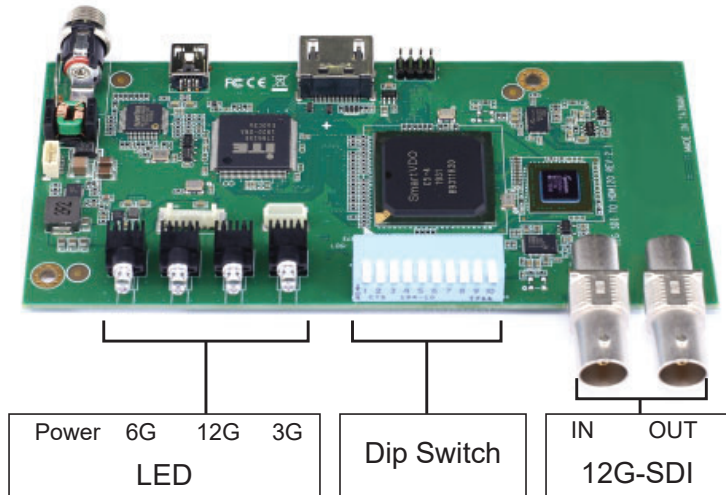
32" 4K Display

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

< 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

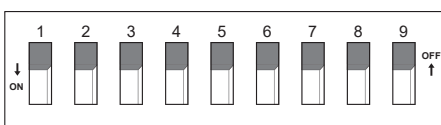
| | 4 | 5 |
|--------|-----------|-----------|
| YUV444 | OFF | OFF |
| YUV422 | OFF | ON |
| RGB444 | ON | OFF |
| YUV420 | ON | ON |

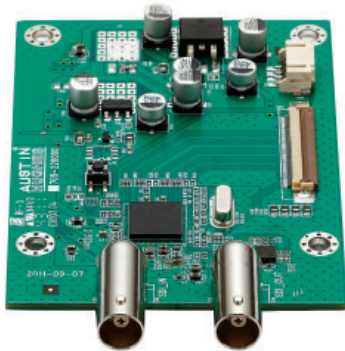
EQ

| | 6 | 7 |
|---------|-----------|-----------|
| Auto | OFF | OFF |
| Disable | OFF | ON |
| Enable | ON | OFF |

Out1 Cable length

| | 8 |
|-------|-----------|
| Short | OFF |
| Long | ON |

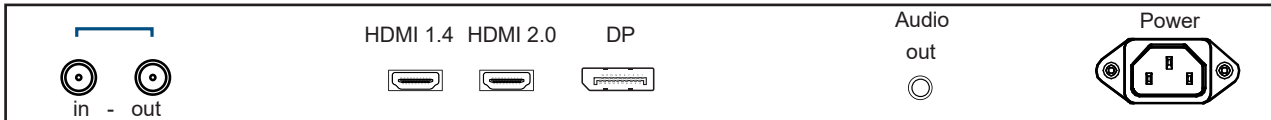




Austin Hughes’ SDI input is an ideal solution for the broadcast-grade video and high resolution CCTV market.

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 |

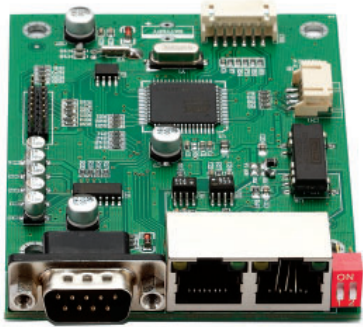
| | | |
|--------------------------------|-------------------------|------------------------------|
| Compatible Video Format | 3G-SDI | 1080p @60 / 50Hz, 4:2:2 |
| | | 1080p @30 / 25 / 24Hz, 4:4:4 |
| | | 1080i @60 / 50Hz, 4:4:4 |
| | | 720p @60 / 50Hz, 4:4:4 |
| | HD-SDI | 1080p @30 / 25 / 24Hz, 4:2:2 |
| | 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 / 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)

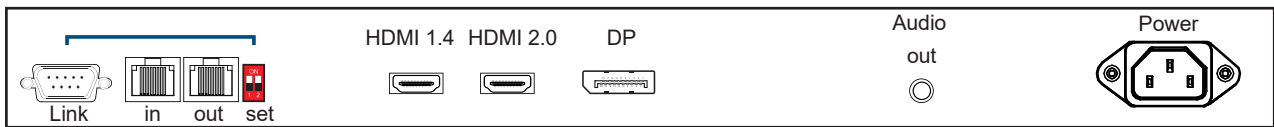


More control is always good. Especially when it is necessary and easy. Austin Hughes provides MCS solution to control the **OSD** of various UltraView LCD display up to 64 units.

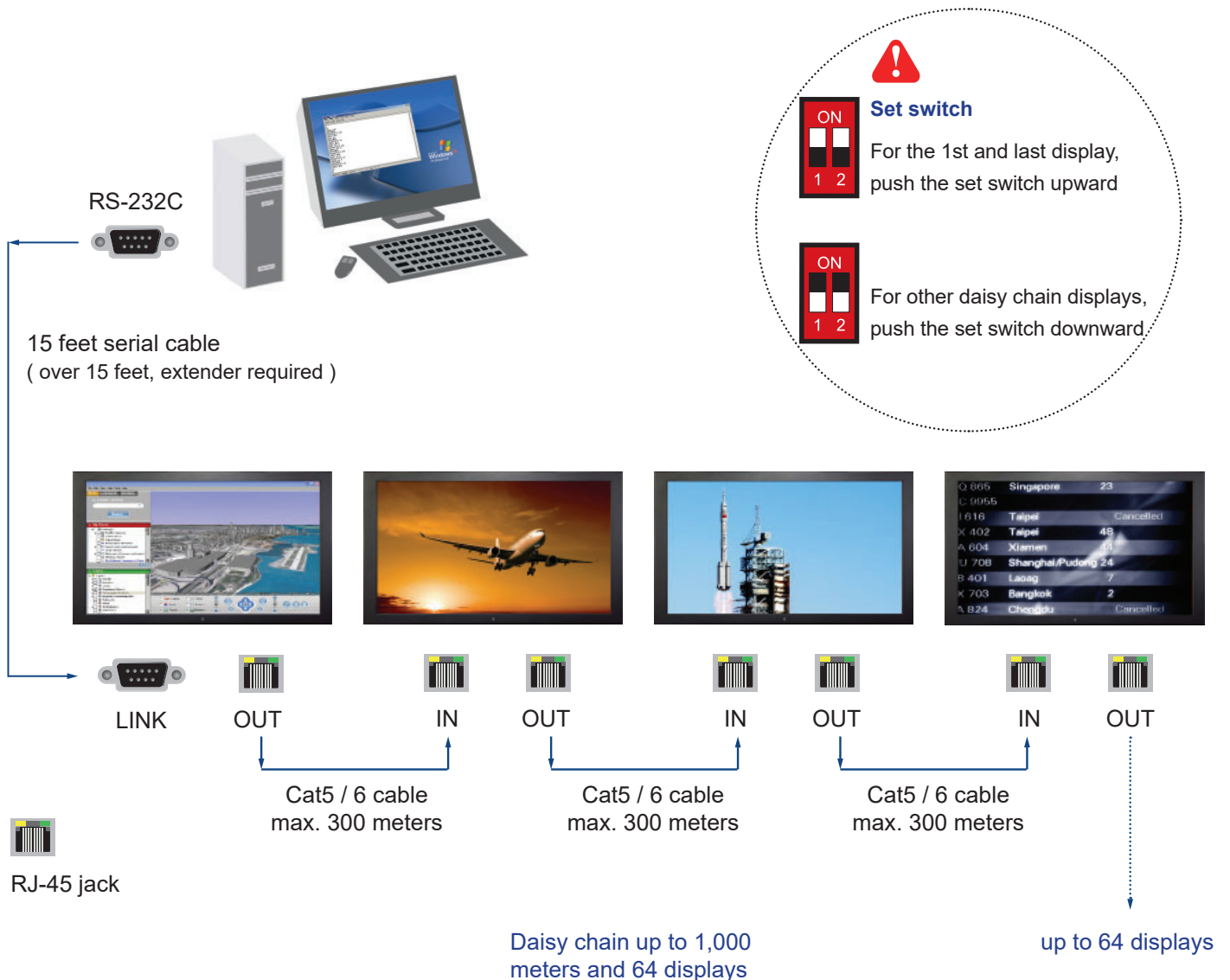
The RS-232C is used for the communication between the PC and the first display via a 15 feet serial cable while the CAN bus is used for the various LCD displays cascade together via CAT 5/6 cable, and daisy chain up to 1,000 meters.

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>



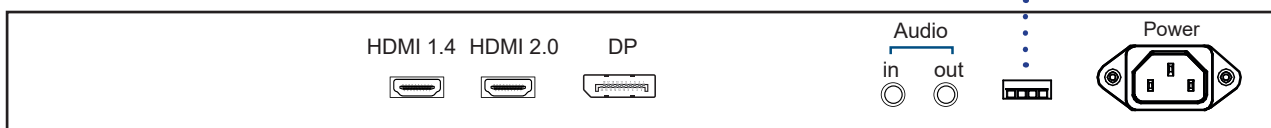


K32" USB Touchscreen Specification

| Model | TPC-10 Multi-touch | IR-10 Infrared |
|----------------------|---------------------------------|---|
| Technology | Projected Capacitive | Infrared |
| Touch Point | 10 | 10 |
| Input Type | Finger or Capacitive Stylus | Pen, Finger, Finger of gloved hand activation |
| Resolution | 4096 x 4096 | - |
| Touch Point Accuracy | ± 2 mm | ± 2 mm |
| Response Speed | < 5 ms | ≤ 15ms |
| Activation Force | < 5 g | No minimum touch activation force |
| Surface Hardness | 6H | - |
| Light Transmission | > 85% | - |
| Haze | 3% ↓ | - |
| Durability | 50 million touches | Unlimited |
| Top Layer | 3 mm Glass | Glass |
| Bottom Layer | 0.7 mm Sensor Glass | |
| Thickness | 3.9 ± 0.1 mm | 3 mm |
| Connector | USB | USB Type A |
| Compatibility | Linux / Android / Windows / Mac | Windows 7 / Windows 10 |

- Dimension will be changed if touchscreen 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

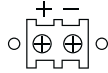


IR-10 / TPC-10 Driver



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.

< 5.6 > Options : DC Power





| 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 

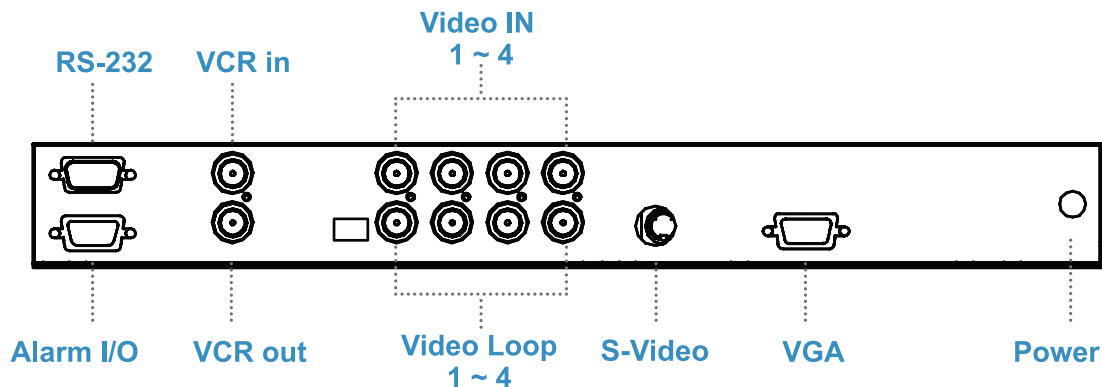
| | Input | Part no. | MIL Standard |
|-----------------------------|--------------------------|---|-------------------|
| MIL - type Connector | DC Power *** (Male) | MS3470W8-33P  | MIL - DTL - 26482 |
| | VGA *** (Male) | MS3470W14-15P  | MIL - DTL - 26482 |

*** 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.

< 5.8 > Options : Quad Display



QD Specification

| Item | | Description | |
|-------------------|----------------------|------------------------------------|------------|
| Model Number | | QD (NTSC) | QD (PAL) |
| Number of Color | | 16.7 M | 16.7 M |
| Imaging System | | NTSC | PAL |
| Resolution | | 1024 x 525 | 1024 x 625 |
| Refresh Rate | | 60 | 50 |
| Video Input | Camera Input | 1.0 Vpp, 75 Ohm x 4 | |
| | VCR Input | 1.0 Vpp, 75 Ohm x 1 | |
| Video Output | Live Monitor | 1.0 Vpp, 75 Ohm x 1 | |
| | Loop Through Out | 1.0 Vpp, 75 Ohm x 4 | |
| | VCR Output | 1.0 Vpp, 75 Ohm x 1 | |
| Auto Gain Control | | Yes | |
| Time / Date | | Yes | |
| On Screen Display | | Yes | |
| Camera Title | | 8 Character Title | |
| Display Format | 2 x Zoom On Playback | Yes | |
| | QUAD | Yes | |
| | FULL | Yes | |
| | SEQUENCY | Yes | |
| Dwell Time | | 0 to 99 Sec Adjustable | |
| Alarm Inputs | | Selectable NO/NC Contacts x 4 | |
| Relay Outputs | | NO/NC contacts x 1: 1A @DC24V Max. | |
| Alarm Hold Time | | 1 Sec to Non-stop | |
| Built-in Buzzer | | Yes | |
| Key Lock | | Yes | |

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