



User Guide

020-104143-01

SUHD Series LCD Display

SUHD55-V3, SUHD65-V3, SUHD75-V3,
SUHD86-V3, SUHD98-V3

CHRISTIE®



NOTICES

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GENERAL

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Christie is committed to making our documents free from language bias; however, we are not responsible for the language used on any linked or third-party documentation.

For the most current technical documentation and office contact information, visit www.christiedigital.com.

WARRANTY

Products are warranted under Christie's standard limited warranty, the details of which are available at <https://www.christiedigital.com/help-center/warranties/> or by contacting your Christie dealer or Christie.

PREVENTATIVE MAINTENANCE

Preventative maintenance is an important part of the continued and proper operation of your product. Failure to perform maintenance as required, and in accordance with the maintenance schedule specified by Christie, voids the warranty. For preventative maintenance schedules, refer to www.christiedigital.com.

REGULATORY

The product 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 when the product is operated in a commercial environment. The product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of the product in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at the user's own expense. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAN ICES-3 (A) / NMB-3 (A)

이 기기는 업무용(A급)으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이점을 주의하시기 바라며, 가정 외의 지역에서 사용하는 것을 목적으로 합니다.

ENVIRONMENTAL



The product is designed and manufactured with high-quality materials and components some of which can be recycled and reused. This symbol  means electrical and electronic equipment, at their end-of-life, should be disposed of separately from regular waste. Please dispose of the product appropriately and according to local regulations. In the European Union, separate collection systems are for used electrical and electronic products.

If printing this document, consider printing only the pages you need and select the double-sided option.

Please help us to conserve the environment we live in!

NOTATION

Learn the hazard and information symbols used in the product documentation.



Danger! If not avoided, the following could result in death or serious injury.



Warning! If not avoided, the following could result in death or serious injury.



Caution! If not avoided, the following could result in minor or moderate injury.



Notice. If not avoided, the following could result in property damage.



Information messages provide additional information, emphasize or provide a useful tip.

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Safety and warning guidelines

Read all safety and warning guidelines before installing or operating the display.

This display must be operated in an environment that meets the operating range specification. Use only the attachments and/or accessories recommended by Christie. Use of others may result in the risk of fire, shock, or personal injury.

General safety warnings

Observe these important safety rules to avoid personal injury or damage to the product.



Warning! If not avoided, the following could result in death or serious injury.

- FIRE AND SHOCK HAZARD! Use only the attachments, accessories, tools, and replacement parts specified by Christie.
- FIRE AND SHOCK HAZARD! Ensure that any external equipment is properly grounded before connecting to the display device.



Caution! If not avoided, the following could result in minor or moderate injury.

- HEAVY OBJECT! A multi-person lift or properly rated lift equipment is required.
- This product is intended for indoor use only.
- Do not operate the product at an altitude exceeding 2000 m (6561.7 feet).
- Do not operate the product in tropical climate regions.
- Only clean the components with Christie-approved products.
- Do not put heavy objects on the display.
- Do not place objects containing liquids on the product.
- Do not spray cleaners or pour liquids directly onto the surface of the product.
- Do not remove the protective housing.
- If the glass of the display panel is broken, liquid may escape. If this liquid gets into your eyes or touches your skin, wash with the clean water and seek medical attention immediately.



Notice. If not avoided, the following could result in property damage.

- Transport the display upright.
- Avoid placing the display face up or down.
- Handle the display gently.
- Do not drop the display.
- Do not move the display with any cables still attached to the power outlet or audio-visual source.

Installation safety and warning guidelines

Learn the safety precautions related to installation.



Warning! If not avoided, the following could result in death or serious injury.

- FIRE AND SHOCK HAZARD! Always provide proper ventilation for the product to prevent overheating.
- Keep a 10 cm minimum distance between the display and the wall for proper ventilation.
- FIRE AND SHOCK HAZARD! Do not install near any devices that produce heat such as amplifiers, radiators, heat registers, or stoves.

- FIRE AND SHOCK HAZARD! Do not install in a high-temperature environment.
- FIRE AND SHOCK HAZARD! Do not install in a high-humidity environment.



Caution! If not avoided, the following could result in minor or moderate injury.

- Do not place the display on an unstable shelf or surface.

AC power safety precautions

Learn the safety precautions related to AC power.



Warning! If not avoided, the following could result in death or serious injury.

- SHOCK HAZARD! Disconnect the product from AC before installing, moving, servicing, cleaning, removing components, or opening any enclosure.
- FIRE AND SHOCK HAZARD! Do not attempt operation unless the power cord, power socket, and power plug meet the appropriate local rating standards.
- FIRE AND SHOCK HAZARD! Do not insert the power plug into an outlet other than 100~240V AC.
- SHOCK HAZARD! Only use the AC power cord provided with the product or recommended by Christie.
- FIRE AND SHOCK HAZARD! Do not use a power cord, harness, or cable that appears damaged.
- FIRE AND SHOCK HAZARD! If the power cord or plug is damaged or becomes hot, turn off the main power switch of the display. Remove the power plug from the outlet after the power plug has cooled down.
- SHOCK HAZARD! Never compromise the ground or earth connection of the product.
- SHOCK HAZARD! The AC power cord must be inserted into an outlet with grounding.
- FIRE OR SHOCK HAZARD! Do not overload power outlets and extension cords.
- The appliance coupler and main power supply plug must be easily accessible for disconnecting the product from the power source.
- TRIP OR FIRE HAZARD! Position all cables where they cannot contact hot surfaces, be pulled, be tripped over, or damaged by persons walking on or objects rolling over the cables.
- FIRE OR SHOCK HAZARD! If smoke or a peculiar smell comes from the display, remove the power plug from the outlet immediately.
- FIRE OR SHOCK HAZARD! If the display is turned on but there is no image, remove the power plug from the outlet immediately.
- FIRE OR SHOCK HAZARD! If liquid is spilled or objects are dropped inside the display, remove the power plug from the outlet immediately.
- FIRE OR SHOCK HAZARD! If the display is dropped or the protective housing is damaged, remove the power plug from the outlet immediately.

Introduction

Follow the instructions in this manual for installation, adjustment, or servicing of this product.

Read all instructions before using this product.



The illustrations in this document are for representation only and may not depict your display model exactly.

Only Christie qualified technicians are authorized to service the display. If you encounter a problem during installation, contact your dealer for assistance. Do not repair or open the display by yourself.

Use this display panel for dynamic presentations, educational collaboration, and engaging retail applications.

For complete SUHD Series LCD Display product documentation and technical support, go to www.christiedigital.com.

Models

- SUHD55-V3
- SUHD65-V3
- SUHD75-V3
- SUHD86-V3
- SUHD98-V3

Product features

All five displays support a 3840x2160 Ultra High Definition (UHD) format and can display true 1.07 billion colors.

They also support a full range of interface types, including DisplayPort 1.2 x2, HDMI 1.4 x2, HDMI 2.0 x2, VGA, PC audio in, IR extender, and S/PDIF.

Video system input	RGB input	Communication
HDMI x4 DisplayPort x2	VGA x1	RS-232 in (D-sub 9 pin) Ethernet

Other features:

DisplayPort v1.2 input:

- HDMI v1.4 & 2.0 inputs with HDCP
- Audio function output
- Internal speaker 10Wx2
- Signal source auto detection
- On-screen display (OSD) keypad lock function

- Landscape, portrait supported
- Power ON/OFF Timer setup
- Low power consumption

Accessing product documentation

For installation, user, and service information, see the product documentation available on the Christie website. Read all instructions before installing, using, or servicing this product.

1. Access the documentation from the Christie website:
 - Go to this URL: <http://bit.ly/4ndrShQ> or
 - Scan the QR code using a QR code reader app on a smartphone or tablet.



2. To access service information, sign into the Partner Portal.
3. On the product page, select the model and switch to the **Downloads** tab.

Viewing Christie University product training videos

Christie University provides select product training videos that are helpful for understanding and using your product.

To view available videos for your product:

1. Go to Christie University: <https://training.christiedigital.com> .
2. Select **I'm a Christie partner or customer**.
3. Log into your profile.
4. Select **Catalog**.
5. Select **Videos**.
6. Select **Product Training Videos**.
7. Navigate to the folder for your product.

Technical support

- North and South America: +1-800-221-8025 or Support.Americas@christiedigital.com
- Europe, Middle East, and Africa: +44 (0) 1189 778111 or Support.EMEA@christiedigital.com
- Asia Pacific (support.apac@christiedigital.com):
 - China: +86 10 6561 0240
 - India: +91 (80) 6708 9999

- Japan: 81-3-3599-7481
- Singapore: +65 6877-8737
- South Korea: +82 2 702 1601

Package handling

Learn how to remove the display panel from the packaging and how to handle the display panel. Leave the panel in the box until the mount is on the wall and you are ready to install the panel.

Unpacking the panel

Learn how to remove the panel from the packaging.

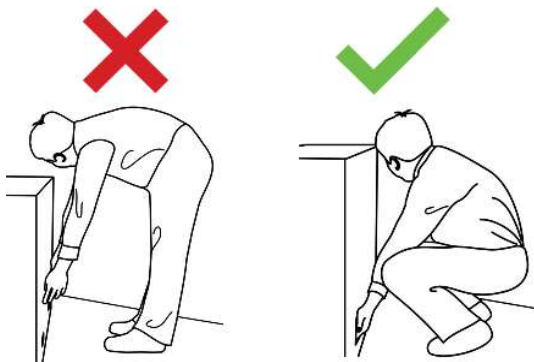
Each LCD panel is packed inside a box carton. To protect the panel during transportation, additional packing material (cushions) has been placed within the carton.



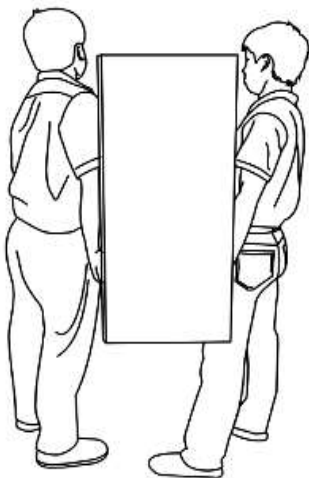
Caution! If not avoided, the following could result in minor or moderate injury.

- **HEAVY OBJECT!**- A multi-person lift or properly rated lift equipment is required.
- Use the proper lifting technique.

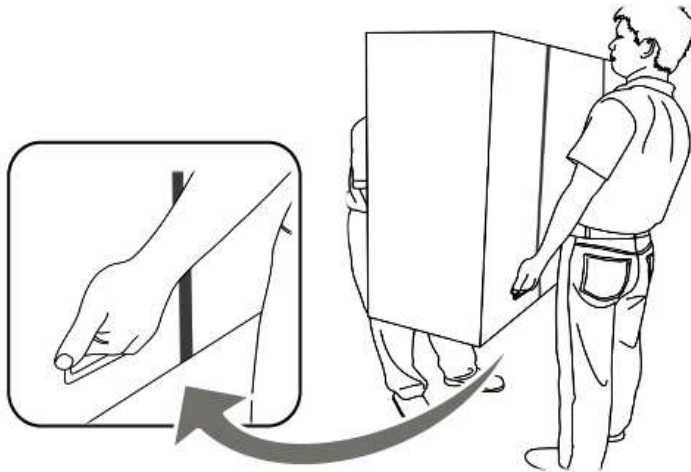
To lift the display, use the proper lifting technique.



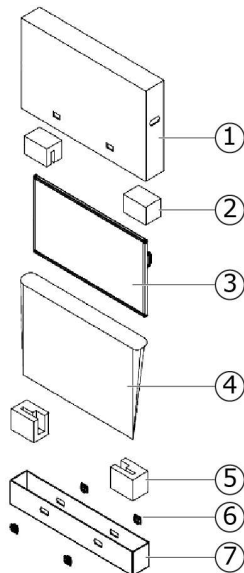
Moving the display requires at least two people. Attempting to move the display with one person may result in dropping the display and/or serious injury.



When moving a display in its shipping carton, lift the carton using the white handles.



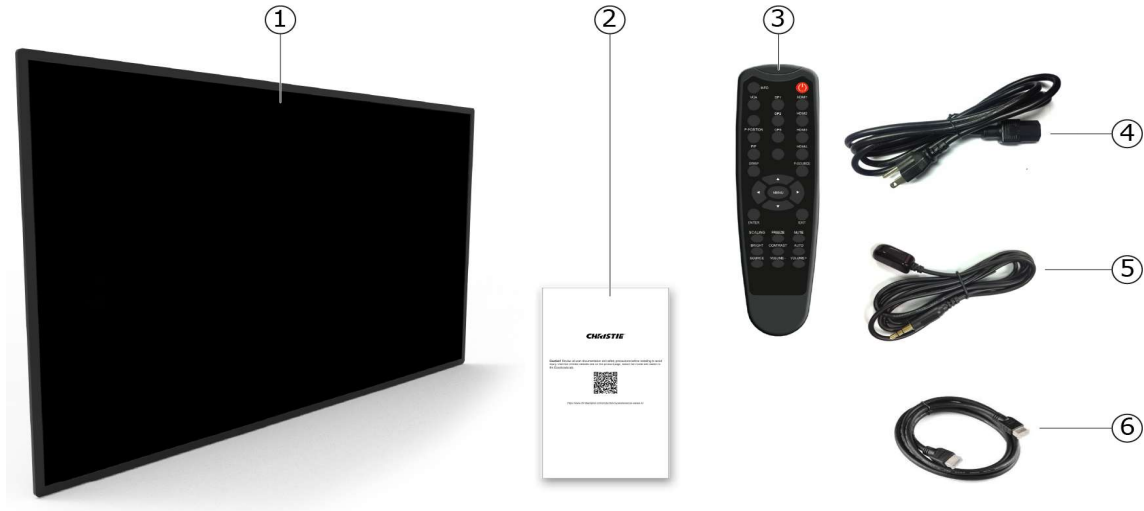
Unpacking the display:



4. Before unpacking, prepare a stable, level, and clean surface near a wall outlet.
5. Set the box in an upright position.
6. Remove the packing straps.
7. Remove the white handles (6 in the image above).
8. Open the carton from the top (1 in the image above).
9. Remove the top cushions (2 in the image above).
10. Take the accessory bag (4 in the image above) out.
11. Lift the display panel (3 in the image above) out of the bottom carton (7 in the image above) and the bottom cushions (5 in the image above).

Parts list

The display panel is shipped with the following items. If any items are missing or damaged, contact your dealer.



- Display panel (1 in the image above)
- Product reference card (2 in the image above)
- Remote control and batteries (3 in the image above)
- Power Cord (US black) (4 in the image above)
- Infrared (IR) extender cable (5 in the image above)
- HDMI cable (6 in the image above)

Mounting the display panel

Learn to safely mount the display panel.

Mounting guidelines

Learn the guidelines related to mounting.



Caution! If not avoided, the following could result in minor or moderate injury.

- If the glass of the display panel is broken, liquid may escape.
- If liquid gets into your eyes or touches your skin, wash with clean water and seek medical attention immediately.
- TIP HAZARD! Center align the product on the stand or mount.

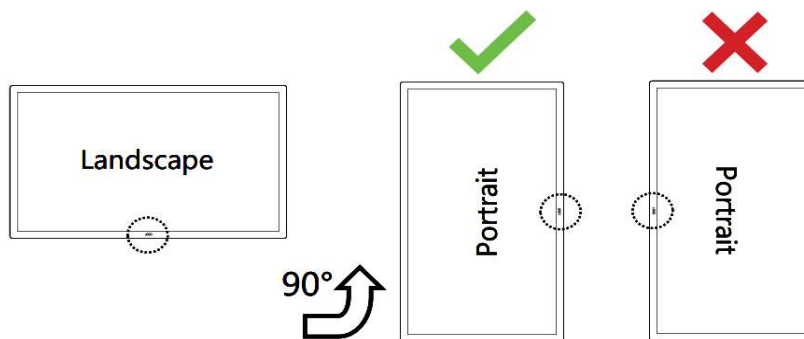


Notice. If not avoided, the following could result in property damage.

- When moving the display panel, always use the handles. Do not carry the panel by the frame.
- Do not twist, bend, or tilt the display panel.
- Do not push, bump, or shake the display panel.
- Do not apply excessive force to the sides of the bezel when mounting the display panel or pushing into its locked position.
- Avoid placing the display panel face up or down.
- Transport the display panel upright with proper packaging.



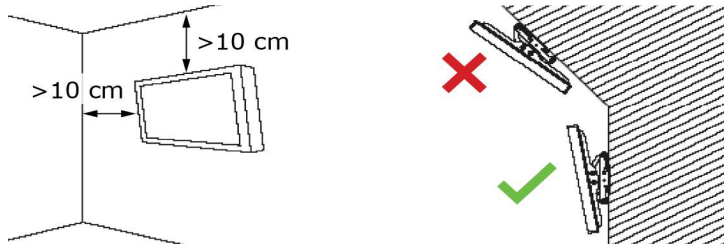
- Make sure the Infrared (IR) extender cable is installed before mounting the panel. For UHD -P display panels, install the Wi-Fi dongle before mounting the panel.
- Make sure the signal cables are installed before mounting the display panel.



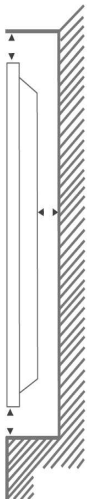
- When used in portrait mode, the panel should be turned counterclockwise (regular front view perspective).
- To avoid putting undue stress on the panel when mounted, make sure the mount is square, flat, and level.
- Do not rest panels on top of a lower panel.
- When inserting the panel into the wall, pay attention to adjacent panels.
- Make sure there is a minimum of 0.5 mm (0.020 in) between mounted panels to allow for thermal expansion.
- Use only an approved wall-mount kit designed for your display panel.

Installing the wall mount

Follow the manual instructions for the type of mount you have selected. Refer all servicing to qualified service personnel.



The recommended installation position is on a vertical wall, with a minimum clearance of 10 cm (3.9 inches) on each side.

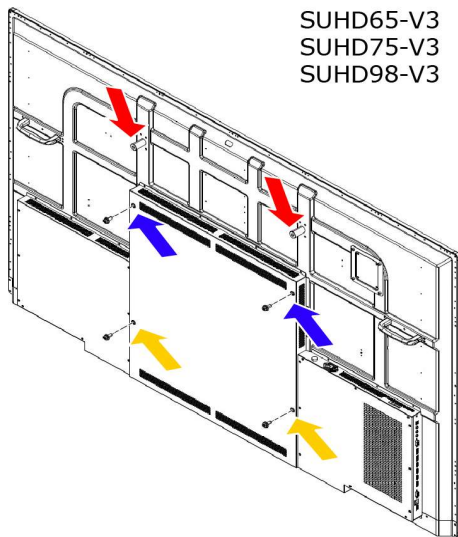


When installing the display panel on an indented wall, make sure sufficient space is around the display panel and the wall for ventilation.

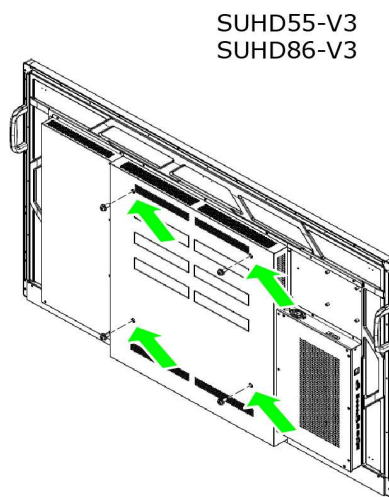


Caution! If not avoided, the following could result in minor or moderate injury.

- **HEAVY OBJECT!** A multi-person lift or properly rated lift equipment is required.
- Use the proper lifting technique.
- Before installing, make sure the wall is strong enough to hold the necessary weight of the display and the mount. The wall must be capable of supporting three times the weight of the display panel or be reinforced.

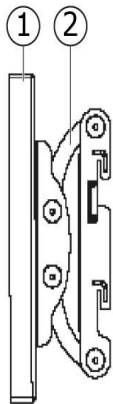


SUHD65-V3
SUHD75-V3
SUHD98-V3



SUHD55-V3
SUHD86-V3

1. Keep the display panel facing the ground and place it on a flat object.
2. Remove the four screws from the back of the display panel.



3. Align the two display brackets (2 in the image above) with the mounting holes and attach the brackets to the display (1 in the image above) using the screws removed in step two.
4. Tighten the two yellow-marked holes.

- For portrait orientation, use the two additional red-marked holes.
- For landscape orientation, use the two additional blue-marked holes.

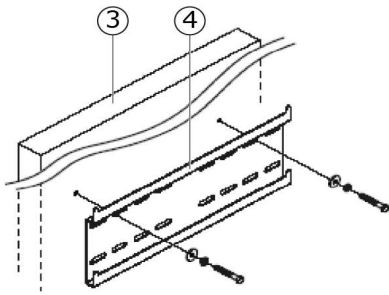


For the 55" and 86" model, all four holes are suitable for both portrait and landscape orientations.

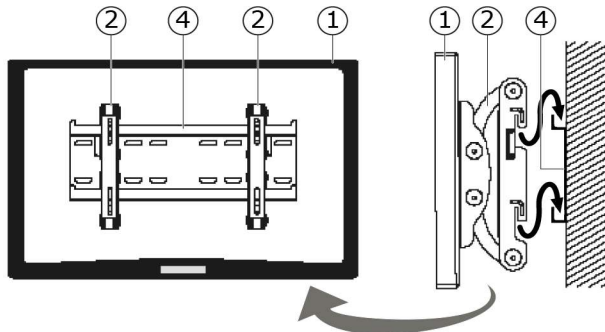


Notice. If not avoided, the following could result in property damage.

- Use maximum 20 mm/0.787" long screws, 8 mm Metric
- Longer screws damage the display.



5. Install the wall mounting bracket (4) on a solid wall or pillar (3).

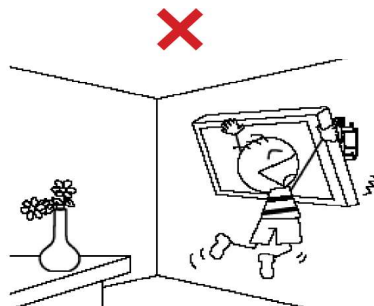
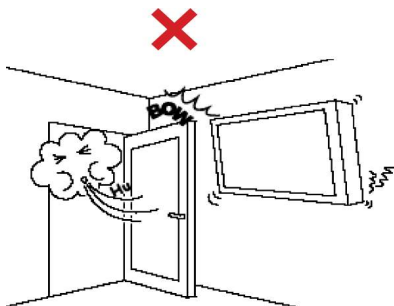


6. Hang the display panel (1) with the display brackets (2) over the wall mounting bracket (4).



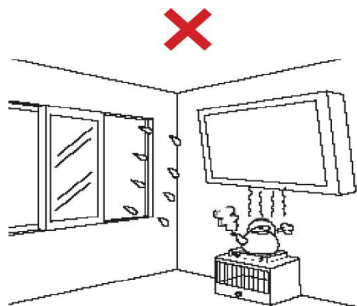
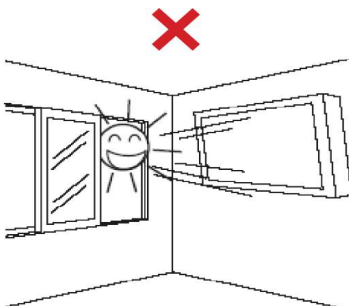
Notice. If not avoided, the following could result in property damage.

- The display panel must be centered on the wall mounting bracket.



Caution! If not avoided, the following could result in minor or moderate injury.

- Do not shake or pull the mounted display violently.





Notice. If not avoided, the following could result in property damage.

- Do not install the display panel in a location where it is exposed to direct sunlight, high temperatures, or humidity.

Installing the display panel

Learn how to install a display panel and connect sources.



Caution! If not avoided, the following could result in minor or moderate injury.

- **FIRE AND SHOCK HAZARD!** If an extension cord must be used, ensure the voltage and power rating exceeds that of the display panel. If the voltage and power rating is less than that of the display, it causes the extension cord to overheat.
- **FIRE AND SHOCK HAZARD!** Do not pinch the power cord/plug between hard surfaces.
- **FIRE AND SHOCK HAZARD!** Do not let metal or liquid get into the display panel.
- **SHOCK HAZARD!** In case of thunder or lightning, do not touch the display panel or the power plug.
- **SHOCK HAZARD!** Do not spill any liquid on the display panel. Remove the power and ask qualified service personnel to check the display.
- **SHOCK HAZARD!** The AC power cord must be inserted into an outlet with grounding.
- **SHOCK HAZARD!** Connect the power cord to the display panel before inserting the power plug into the wall outlet.
- **SHOCK HAZARD!** Do not install or remove the power plug with wet hands.
- **TRIP HAZARD!** Do not step on the power cord/plug.



Notice. If not avoided, the following could result in property damage.

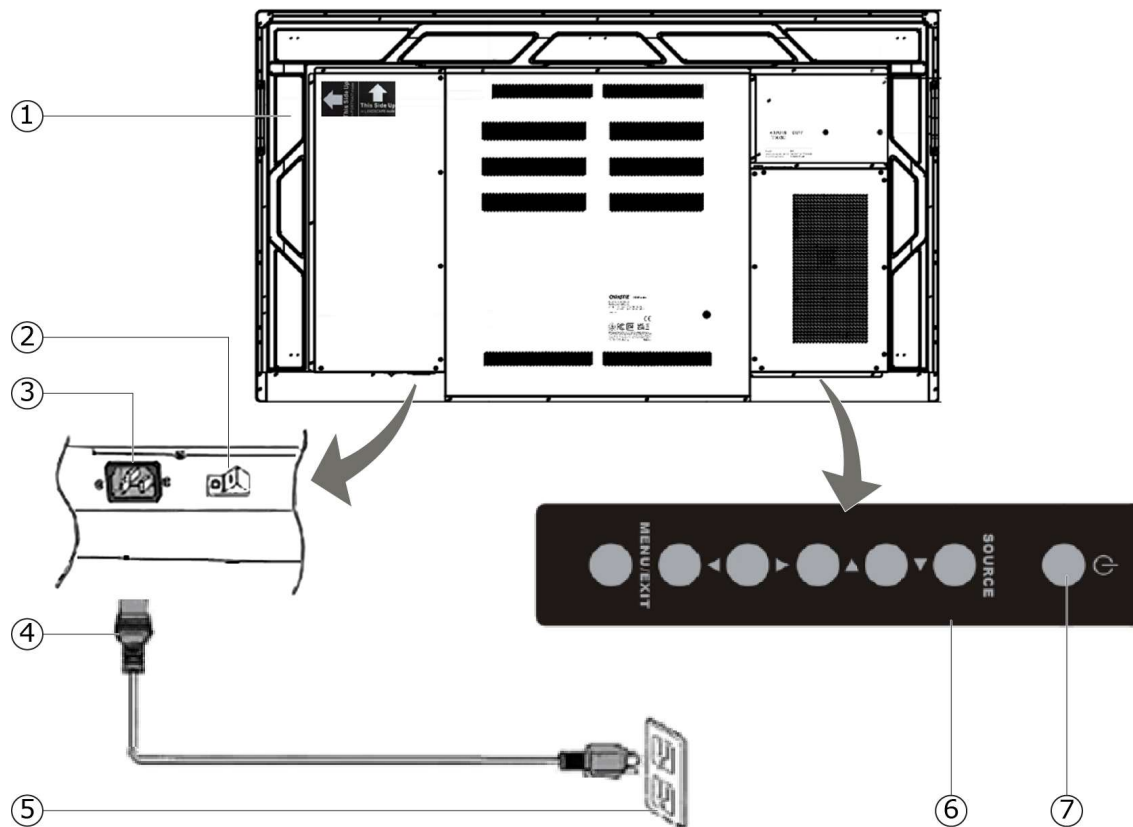
- When operating the display, ambient room conditions should not exceed the following:
 - Operating temperature: 0 to 40°C (0 to 104°F),
 - Humidity: 35~85% RH.
- Do not operate the display panel with a damaged power cord.
- Do not use any harsh chemical on the display.
- Unplug the display panel when it is not used for a long period of time.

Display panel components

Learn about the various parts of the display panel.

Main power switch and AC inlet

Learn how to connect the display panel to the main power.



1. Plug the power cord (4 in the image above) into the AC inlet (3 in the image above) on the side of the display panel (1 in the image above).
2. Connect the display to an AC wall outlet (5 in the image above) using the included power cord's power plug (4 in the image above).
3. Select **I** to turn power on, and "O" to turn power off with the main power switch (2) that is located directly below the AC inlet (3 in the image above).
4. Switch the display panel on or off with the on/off button (7 in the image above) of the display keypad (6 in the image above).

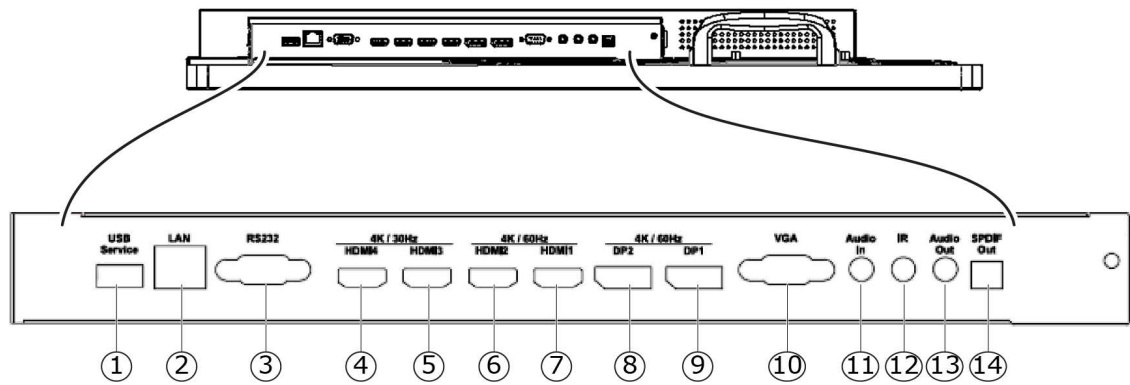
The on/off button (7) is the top button on the display keypad (6 in the image above).



An on/off button is also located on the remote control.

Input and output connectors

Learn the locations of the input and output connectors.



Name			Notes		
1	USB Service		8	DP2	4K/60Hz
2	LAN	Communication port	9	DP1	4K/60Hz
3	RS232	Communication port	10	VGA	
4	HDMI 4	4K/30Hz	11	Audio In	
5	HDMI 3	4K/30Hz	12	IR	
6	HDMI 2	4K/60Hz	13	Audio Out	
7	HDMI 1	4K/60Hz	14	SPDIF Out	

Operating the display panel

Learn the functions of the display panel.



Notice. If not avoided, the following could result in property damage.

- Liquid crystal refresh time is required. Cycling display between five minutes static display and 10 seconds' moving image is required.
- Change background and image colors periodically.
- Background and image with large different luminance displayed at the same time should be avoided.
- Periodical power-off the system for a while or use a screen saver after a long-term static display. Christie recommends a moving picture or black pattern as a screen saver.
- Do not send a static (non-moving) image to this display, or it may cause image burn-in or image retention.

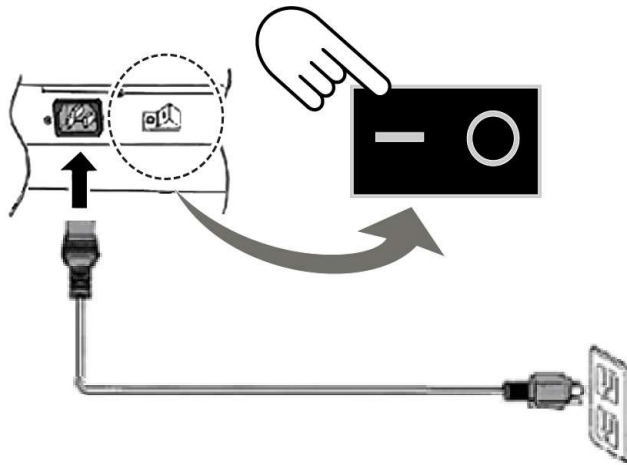
Setting up the display

Learn how to set up the display.



Notice. If not avoided, the following could result in property damage.

- Do not connect or disconnect the display panel when the AC power switch is in the Power On condition.
- Do not use the display panel when it is lying flat on its back.

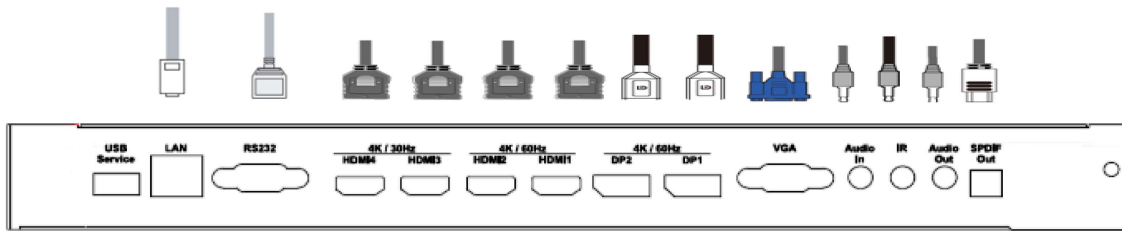


1. Plug in the power cable and turn on the AC power switch.

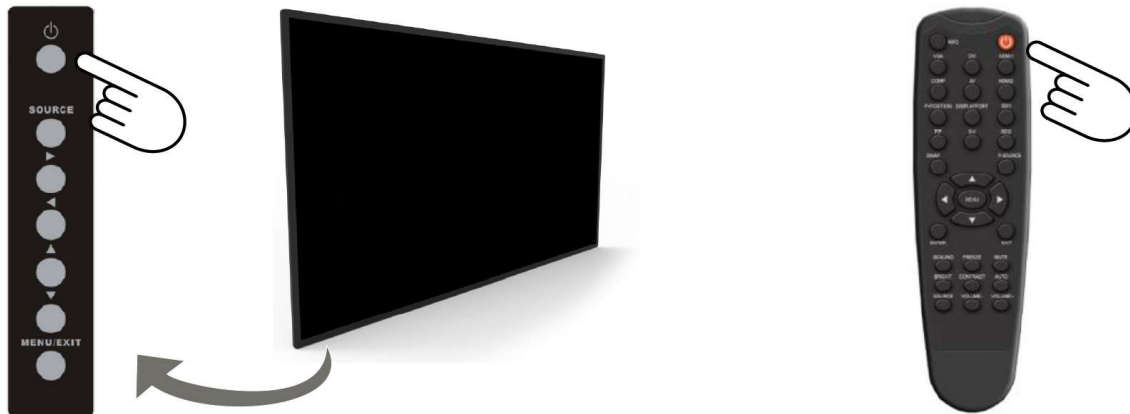
Do not turn on the signal source device(s) yet.

I for power on.

O for power off.



2. Plug in the signal source cables.



3. Select the power key on the display's keypad or the power key on the remote control to turn on the display.



4. Turn on the power of the signal source device(s) to begin sending a signal to the display.

Turning the display on and off

Learn how to turn the display on and off.



Caution! If not avoided, the following could result in minor or moderate injury.

- **SHOCK HAZARD!** When turning off the display panel by selecting the power button on the remote control or keypad, the main power of the display panel is not turned off completely. To disconnect the power completely, remove the power plug from the outlet.

Turning the display on:

1. Connect the display to an AC power outlet.

2. Make sure the AC switch is set to **I**.
3. Select **Power** on the remote control or keypad.

Turning the display off:

1. With the power on, select **Power** on the remote control or keypad to put the display into standby mode.
2. To turn off power completely, turn the AC switch to **O** or disconnect the AC power cord from the power outlet.



If there is no signal input for a period, the display automatically goes into power saving (sleep) mode.

Adjusting the volume and the input source

Learn to adjust the volume and select the input source.

Adjusting the volume:

1. Using the remote control, select **VOLUME-** or **VOLUME+** to increase or decrease the volume.
2. Select **MUTE** to temporarily turn off all sound.
3. To restore the sound, select **MUTE** again.

Selecting the input source:

1. Using the remote control, select the required source button or select **SOURCE** on the display keypad.
2. Use the arrow buttons (▲/▼) to navigate to the required input source and select **ENTER**.

If the display cannot find a source, a No signal message appears.

Using the keypad

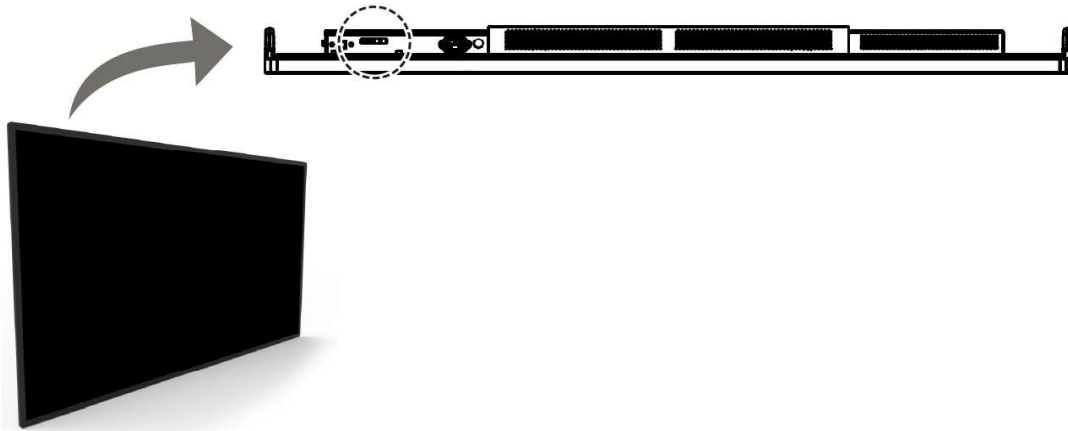
Learn to use the keypad.



Key	Description
Power	Power on/Power off
Source	Source selection (toggle)
▶	Menu Right/Volume +
◀	Menu Left/Volume -
▲	Menu Up
▼	Menu Down
Menu/Exit	Menu/exit selection

Reading the status LED

The LED indicator light is located on the rear of the display near the keypad. The following table explains what the different colors and blink patterns mean.



LED indicator	Condition
Green	Normal operation
Blinking orange	No signal
Orange	Power saving
Off	Power off
	AC off



If the LED is set to **Off** in the on-screen display (OSD) menu, the status LED does not operate.

Avoiding image retention



Notice. If not avoided, the following could result in property damage.

- Prolonged display of static images may cause image retention or burn-in, which is not covered under warranty.
- To reduce the risk of image retention, do not operate the display continuously for more than 20 hours per day.

Follow the recommendations below to avoid image retention.

- Operate display within its rated ambient environment
 - Operating temperature: 0 to 40°C (0 to 104°F)
 - Humidity: 35~85% RH (maximum)
- Avoid static content.
 - During each 24-hour period, turn the display off for a continuous 6 hours.

- Avoid displaying static (fixed) images for long periods of time.
- Consider using a screen saver to avoid displaying static (fixed) video content continuously.

- Set IRFM to **ON**

To help avoid image retention, Christie recommends setting the IRFM feature to **ON**. Select this feature using the on-screen display (OSD) under **Adv. Setup > IRFM > ON**.

Cleaning the display panel

Learn how to clean the display panel.



Warning! If not avoided, the following could result in death or serious injury.

- FIRE HAZARD! Dust build-up may cause a fire.
- FIRE OR SHOCK HAZARD! Do not let any kind of liquid enter the display.



Notice. If not avoided, the following could result in property damage.

- Do not use any harsh chemical on the display.

1. Disconnect the power plug.
2. If dust has collected on the power plug, clean off the dust.
3. Clean the surface of the display:
 - If the surface of the display becomes dirty, wipe the surface lightly with a soft, clean cloth.
 - If the surface requires additional cleaning, lightly moisten the cloth.
 - Do not let any kind of liquid enter the display as it may cause electrical shock or damage.
 - Do not clean the display with alcohol, solvents or ammonia, as this could damage the display.

Using the remote control

Learn the functions of the remote control.



Notice. If not avoided, the following could result in property damage.

- Do not drop, shake or bump the remote control.
- Do not place the remote control on wet materials.
- Do not dismantle the remote control.
- Do not place the remote control in locations with exposure to high-temperature or high-humidity levels.

Installing the remote control batteries



Warning! If not avoided, the following could result in death or serious injury.

- FIRE HAZARD! Do not mix old batteries with new ones.
- FIRE HAZARD! Do not mix different types of batteries together.
- FIRE HAZARD! Do not recharge, heat, disassemble, short, or throw batteries into a fire.

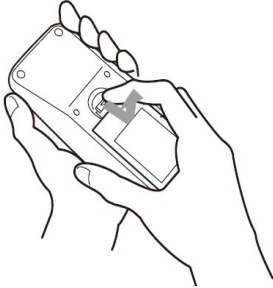


Notice. If not avoided, the following could result in property damage.

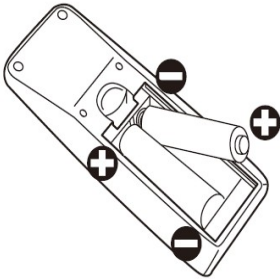
- Only use approved AAA type batteries.
- Ensure that the battery polarities are correct.
- Do not expose batteries to excessive heat such as sunlight or fire.
- If you do not use the remote control for a long time, consider removing the batteries to avoid damage from battery leakage.



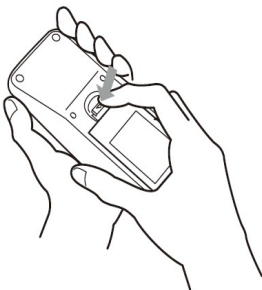
Dispose used batteries according to local regulations.



1. Slide back and remove the battery cover in the direction of the arrow.

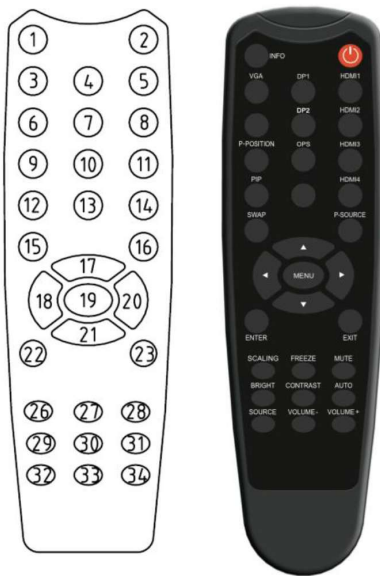


2. Align and insert two AAA batteries according to their plus and minus ports (as indicated in the remote control).



3. Place the battery cover in the direction of the arrow and snap it back into place.

Functions of the remote control



No	Customer code	Data code	Function	No	Customer code	Data code	Function
1	40AF	04FB	INFO	18	40AF	01FE	←
2	40AF	1CE3	POWER	19	40AF	0EF1	MENU
3	40AF	07F8	VGA	20	40AF	03FC	→
4	40AF	08F7	DISPLAYPORT1	21	40AF	19E6	↓
5	40AF	09F6	HDMI1	22	40AF	12ED	ENTER
6	40AF	0AF5	—	23	40AF	05FA	EXIT
7	40AF	0BF4	DISPLAYPORT2	24	40AF	40BF	—
8	40AF	0CF3	HDMI2	25	40AF	41BE	—
9	40AF	1AE5	PIP POSITION	26	40AF	14EB	SCALING
10	40AF	15EA	OPS (No Function)	27	40AF	43BC	FREEZE
11	40AF	10EF	HDMI3	28	40AF	00FF	MUTE
12	40AF	11EE	PIP	29	40AF	17E8	BRIGHTNESS
13	40AF	0DF2	—	30	40AF	18E7	CONTRAST
14	40AF	16E9	HDMI4	31	40AF	1EE1	AUTO

15	40AF	06F9	SWAP	32	40AF	0FF0	SOURCE
16	40AF	13EC	PIP SOURCE	33	40AF	1BE4	VOLUME -
17	40AF	02FD	↑	34	40AF	1DE2	VOLUME +

- Hot Key: Remote key and keypad Lock/Unlock Control.
- Lock: Select Enter, Enter, Exit, Exit, Enter and Exit on the controller by sequence and all keys (including remote and keypad) are locked except RS232 and power on control.
- Unlock: Select Enter, Enter, Exit, Exit, Enter and Exit on the controller by sequence again and all keys are unlocked.

Locking the on-screen display (OSD)

Lock the remote control and keypad to prevent tampering with display settings.

Locking the remote control and keypad:

1. Select **Enter, Enter, Exit, Exit, Enter** and **Exit** on the remote control or the keypad.
2. The `Key Locked` message is shown.

Unlocking the remote control and keypad:

1. Select **Enter, Enter, Exit, Exit, Enter** and **Exit** on the remote control or the keypad again.
2. The `Key Unlocked` message is shown.

Display panel menu contents

Learn the structure of the display panel menu tree.

Using the menus

The following section provide information on how to use the menus.

Navigating through the menu system

- 1. With the power on, select **MENU**. The menu is displayed.
- 2. Within the menu, use **▲**, **▼**, **◀**, **▶**, and **ENTER** to navigate through the menus and adjust options.
- 3. Select **MENU** to return to the previous menu.
- 4. To exit the menu system, select **EXIT**.

Input menu

Save and recall up to four configurations of single or multi-source layouts.

Input	Main Input	HDMI1
Picture	Auto Scan	Off
Audio	Multi-Source Views	Off
OSD Settings	Source2	HDMI2
Setup	Source3	HDMI3
Adv. Setup	Source4	HDMI4
Communication	PiP Size	Mid
Information	PiP Position	BotR
	Input Swap	

Main Input

Select the Input source.

Options: DisplayPort1, DisplayPort2, HDMI1, HDMI2, HDMI3, HDMI4, VGA

Default: HDMI1

Auto Scan

Select whether the display should automatically scan for a Main Input source.

Options: Off, Main, Multi, All

Default: Off

Multi-Source Views

Select the Multi-Source View mode.

Options: Off, PiP, Dual View, Quad View

Default: Off

Source 2

Select the second source.

Options: DisplayPort1, DisplayPort2, HDMI1, HDMI2, HDMI3, HDMI4, VGA



This function is only available when Multi-Source Views is set to PiP, Dual View or Quad View.

Source 3

Select the third source.

Options: DisplayPort1, DisplayPort2, HDMI1, HDMI2, HDMI3, HDMI4, VGA



This function is only available when Multi-Source Views is set to Quad View.

Source 4

Select the fourth source.

Options: DisplayPort1, DisplayPort2, HDMI1, HDMI2, HDMI3, HDMI4, VGA



This function is only available when Multi-Source Views is set to Quad View.

PiP Size

Select the size of the PiP (picture-in-picture).

Options: Small, Mid, Large



This function is only available when Multi-Source Views is set to PiP.

PiP Position

Set the position of the PiP (picture-in-picture).

Options: TopR (Top Right), TopL (Top Left), BotR (Bottom Right), BotL (Bottom Left)



This function is only available when Multi-Source Views is set to PiP.

Input Swap

Swap the Main Input source with Source 2.



This function is only available when Multi-Source Views is set to PiP or Dual View

Picture menu

This menu is used for making common image adjustments.

Input	Aspect Ratio	Full Screen
Picture	Scheme	User
Audio	Contrast	50
OSD Settings	Brightness	50
Setup	Sharpness	5
Adv. Setup	Hue	50
Communication	Saturation	50
Information	Backlight	80
	Color Temp & Gamma	>>
	RGB Range	Auto

Aspect Ratio

Adjust the aspect ratio of the screen. The first selection is for the main source, and the second selection is for sources 2-4.

Options:

- Main: Full Screen, Letterbox, 4:3, Native
- PiP/Dual View: Full Screen ; Letterbox ; 4:3
- Default: Full Screen

Scheme

Select one of the following.

Options: User, Vivid, Cinema, Game, Sport

Default: User

Contrast

Increases or decreases the contrast of picture. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: 0 to 100

Default: 50

Brightness

Increases or decreases the brightness of picture. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: 0 to 100

Default: 50

Sharpness

Adjusts the definition of picture. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: 0 to 10

Default: 5

Hue

Increases or decreases the hue. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: 0 to 100

Default: 50

Saturation

Adjusts the saturation. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: 0 to 100

Default: 50

Backlight

Increases or decreases the intensity of the LCD backlight. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: 0 to 100

Default: 80

Color Temp & Gamma

Selects gamma.

Options: Off, 2.2

Default: 2.2

Selects the color temperature.

Options: User, 5000K, 6500K, 7500K, 9300K

Default: 9300K

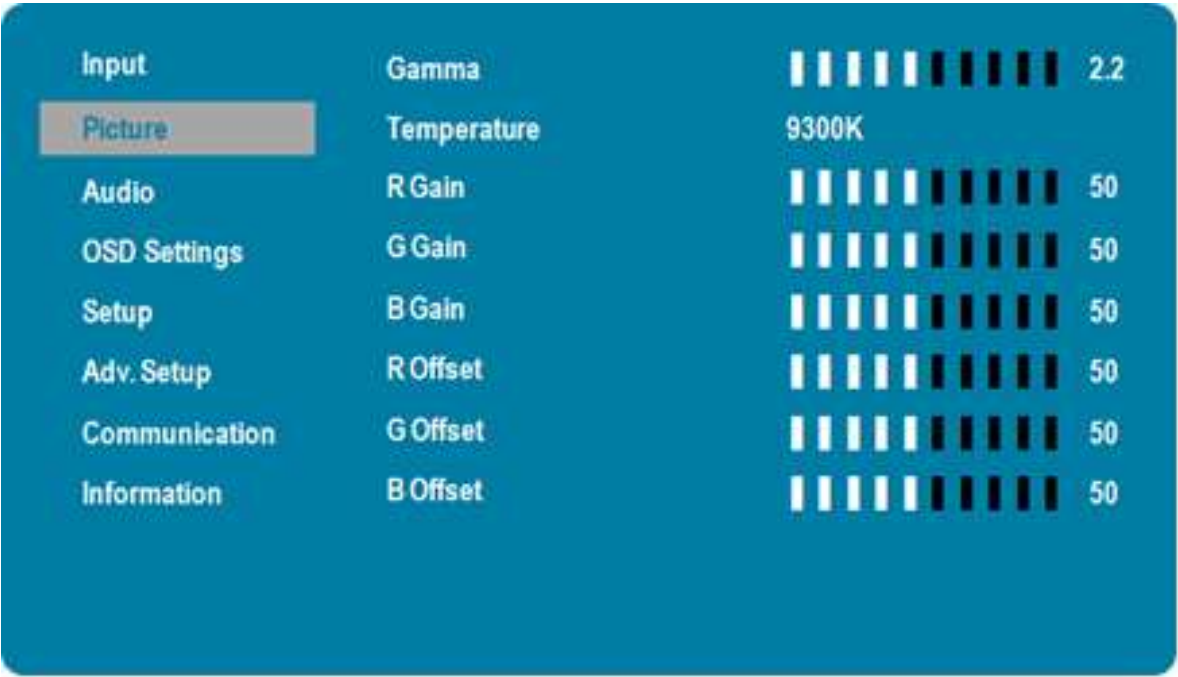
RGB Range

Selects the RGB range for HDMI and DisplayPort sources.

Options: Auto, Full Range, Limited

Default: Auto

Picture menu– RGB Adjust submenu



Gamma

Selects gamma.

Options: Off, 2.2

Default: 2.2

Temperature

Selects the color temperature.

Options: User, 5000K, 6500K, 7500K, 9300K

Default: 9300K

Red Gain

Adjusts the amount of red in bright content.

Range: 0 to 100

Default: 50

Green Gain

Adjusts the amount of green in bright content

Range: 0 to 100

Default: 50

Blue Gain

Adjusts the amount of blue in bright content.

Range: 0 to 100

Default: 50

Red Offset

Adjusts the amount of red in dark content.

Range: 0 to 100

Default: 50

Green Offset

Adjusts the amount of green in dark content.

Range: 0 to 100

Default: 50

Blue Offset

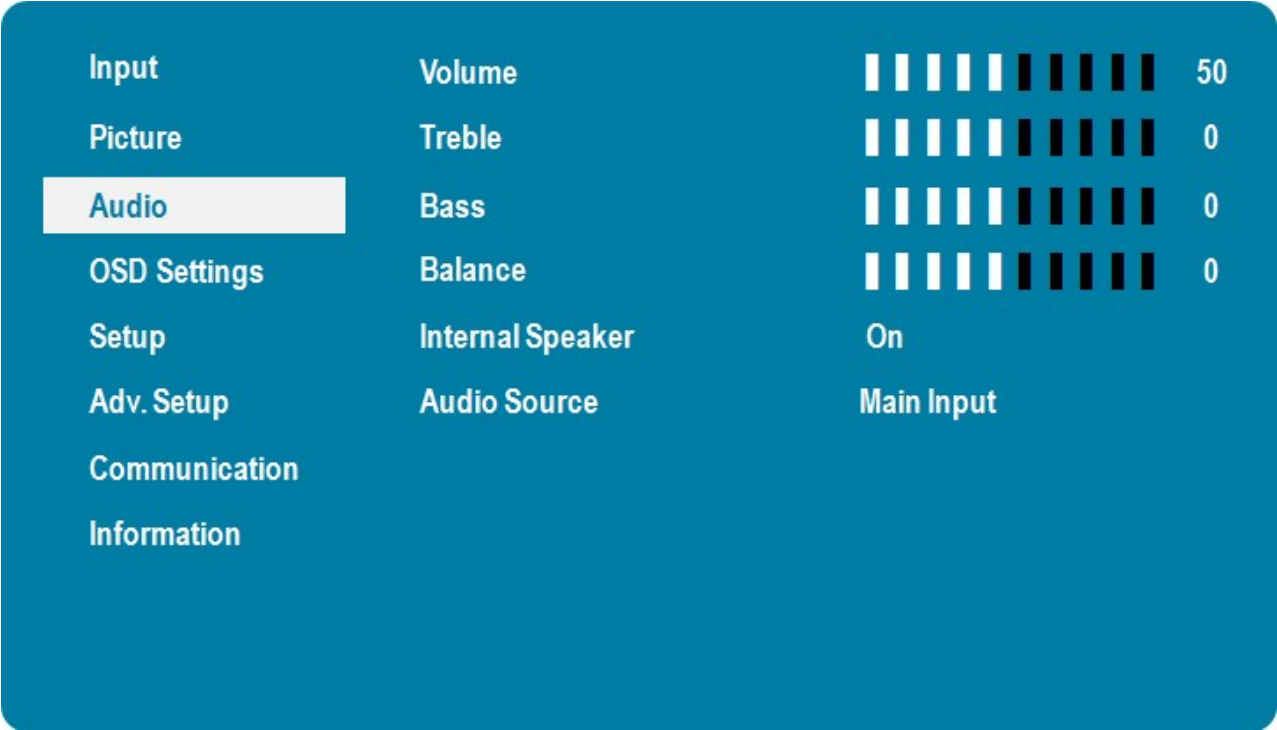
Adjusts the amount of blue in dark content.

Range: 0 to 100

Default: 50

Audio menu

This menu is used for adjusting volume settings.



Volume

Adjusts the sound. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: 0 to 100

Default: 50

Treble

Adjusts the sound in high tones (treble). Select ◀ or ▶, select the required level, and select **ENTER**.

Range: -6 to 6

Default: 0

Bass

Adjusts the sound in low tones (bass). Select ◀ or ▶, select the required level, and select **ENTER**.

Range: -6 to 6

Default: 0

Balance

Adjusts the balance of the left and right speakers. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: -6 to 6

Default: 0

Internal Speaker

Selects the internal speaker audio on or off.

Default: On

Audio Source

Selects the audio source that is played through the display's internal speakers, audio out, and digital audio out.

Options: Audio In, Main Input, Source2, Source3, Source4

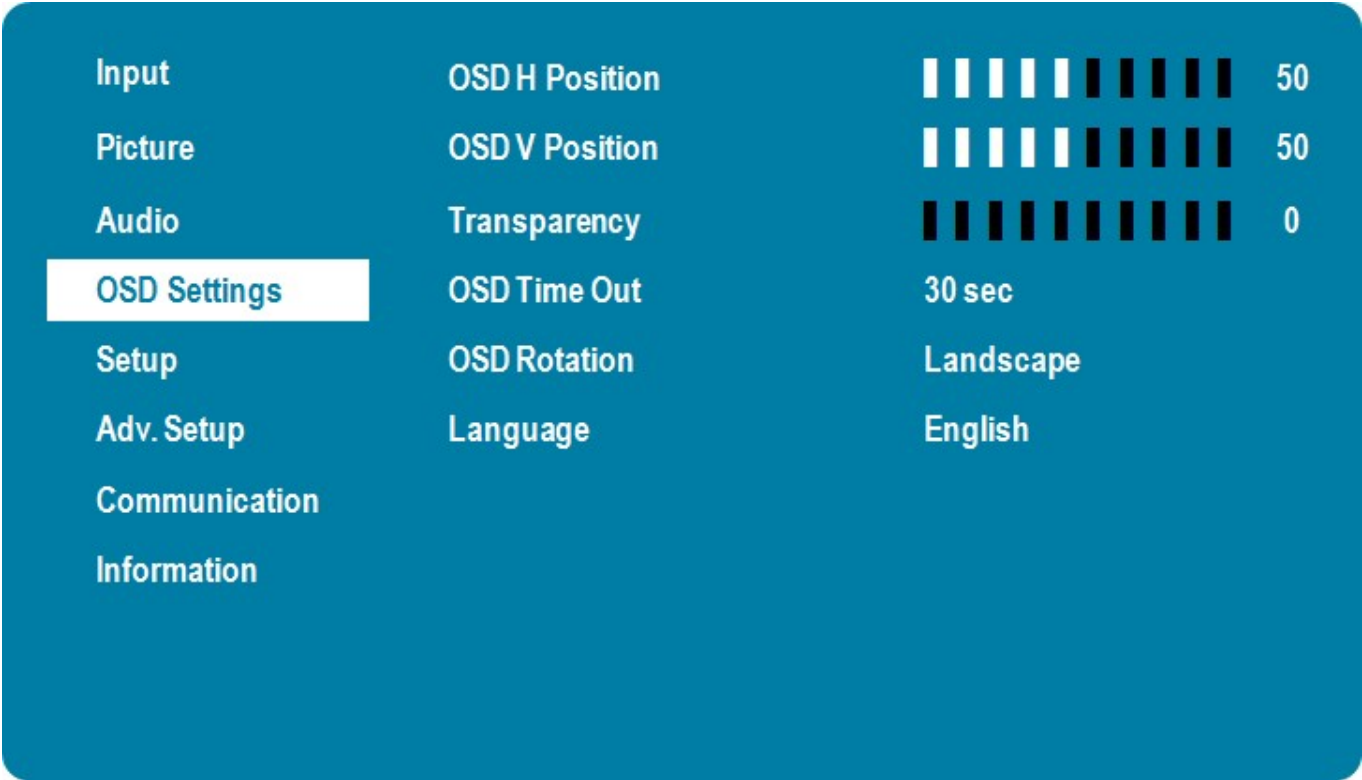
Default: Main Input



Settings for Source 2, Source 3, and Source 4 are only enabled when Multi-Source Views mode is set to On.

OSD Settings menu

This menu is used to make initial set-up adjustments to the on-screen display (OSD) menu and other on-screen messages.



OSD H Position

Adjusts the horizontal position of the on-screen display (OSD) menu. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: 0 to 100
Default: 50

OSD V Position

Adjusts the vertical position of the on-screen display (OSD) menu. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: 0 to 100
Default: 50

Transparency

Submenu to adjust the transparency of the on-screen display (OSD) menu. Select ◀ or ▶, select the required level, and select **ENTER**.

Range: 0 to 10
Default: 0

OSD Time Out

Submenu to adjust the time in seconds before the on-screen display (OSD) menu disappears.

Options: 5 sec, 10 sec, 20 sec, 30 sec, 60 sec

Default: 30 sec

OSD Rotation

Selects the on-screen display (OSD) Rotation. Select ◀ or ▶ to select the rotation.

Options: Landscape, Portrait

Default: Landscape

Language

Selects the on-screen display (OSD) language.

Options: English and 繁體中文

Default: English

Setup menu

Input	Auto Adjust		
Picture	H Position		50
Audio	V Position		50
OSD Settings	Phase		50
Setup	Clock		50
Adv. Setup	Overscan		0
Communication	Power LED	On	
Information	Real Time Clock	>>	
	USB FW Update	>>	

Auto Adjust

Forces the display to reacquire and lock to the input signal (VGA source only). This is useful when the signal quality is marginal.

Options: No, Yes

Default: No

H Position

Adjusts the horizontal position of the image (VGA source only). Select ◀ or ▶ to set the required level.

Range: 0 to 100

Default: 50

V Position

Adjusts the vertical position of the image (VGA source only). Select ◀ or ▶ to set the required level.

Range: 0 to 100

Default: 50

Phase

Adjusts the phase of the displayed signal (VGA source only). Select ◀ or ▶ to set the required level.

Range: 0 to 100

Clock

Adjusts the clock of the displayed signal (VGA source only). Select ◀ or ▶ to set the required level.

Range: 0 to 100

Overscan

Adjusts the zoom (overscan) of the image.

Range: 0 to 10

Default: 0

Power LED

Enables or disables the status LED.

Options: On, Off

Default: On

Real Time Clock

Configures settings of Current Time and Timer Mode.

See below for details.

Real Time Clock submenu

Sets the internal clock of the display and powers on and powers off the display at preset times if required.

Current Time		2017 / 12 / 05 14 : 40 Tuesday			
Timer Mode		User Mode			
Weekday	Enable	Power On		Power Off	
Monday	☐	00 : 00		00 : 00	
Tuesday	☐	00 : 00		00 : 00	
Wednesday	☐	00 : 00		00 : 00	
Thursday	☐	00 : 00		00 : 00	
Friday	☐	00 : 00		00 : 00	
Saturday	☐	00 : 00		00 : 00	
Sunday	☐	00 : 00		00 : 00	

Current Time

Sets the year, month, day, and time of day.

Options: User Mode, Workday Mode, Everyday Mode

Real Time Clock–User Mode

Current Time

2017 / 12 / 05 14 : 40 Tuesday

Timer Mode

Workdays

Weekday	Enable	Power On	Power Off
Monday ~ Friday	☐	00 : 00	00 : 00
Saturday	☐	00 : 00	00 : 00
Sunday	☐	00 : 00	00 : 00

User Mode

Selects the power on/off time for each day of the week. Use the arrow keys to specify the on and off times.

Options: Disable, Enable

Real Time Clock–Workdays mode

Workday Mode

Selects the power on/off time for Monday to Friday, Saturday, and Sunday. Use the arrow keys to specify the on and off times.

Options: Disable, Enable

Real Time Clock–Everyday mode

Current Time

2017 / 12 / 05 14 : 40 Tuesday

Timer Mode

Everyday

Weekday

Enable

Power On

Power Off

Monday ~ Sunday

☐

00 : 00

00 : 00

Everyday mode

Selects the power on/off time for all days of the week. Use the arrow keys to specify the on and off times.

Options: Disable, Enable

Adv. Setup menu

Input	Smart Light Control	Off
Picture	IRFM	Off
Audio	Wake Up From Sleep	VGA Only
OSD Settings	EDID Setup	>>
Setup	Factory Reset	>>
Adv. Setup		
Communication		
Information		

Smart Light Control

Enables dynamic contrast (DCR) or ambient light sensor.

Options: Off, DCR, Light Sensor

Default: Off

IRFM

Creates slight frame motion to help avoid image retention.

Options: On.

Default: Off.

Wake Up From Sleep

Selects a source to wake up the display from sleep mode.

Options: VGA Only, Digital, RS232, Ethernet, Never Sleep

Default: VGA Only

EDID Setup

Selects the EDID (Extended Display Identification Data) of the HDMI and DisplayPort inputs.

Options: HDMI 3, HDMI4: 1080p, 4K2K 30Hz; DP1, DP2, HDMI1, HDMI2: 1080p, 4K2K 30Hz, 4K2K 60Hz

Default: HDMI 3, HDMI4: 4K2K 30Hz

Other inputs: 4K2K 60Hz.



Use the 1080p setting for the broadest support of lower resolution sources. Use the 4K2K setting to support high resolution sources such as 3840x2160.

Factory Reset

Restores all settings to their default.

Options: No, Yes

Default: No

Communication menu

Configures the display’s RS232 and Ethernet communication ports.

Input	Baud Rate	115200
Picture	Enable Network	Off
Audio	IP Address Settings	>>
OSD Settings	Power Status Alert	Off
Setup	Source Status Alert	Off
Adv. Setup	Signal Lost Alert	Off
Communication	Load Default	>>
Information		
	IP Address	192.168. 2. 1
	Device MAC	00:00:00:00:00:00

Baud Rate

Sets the baud rate.

Options: 115200, 38400, 19200, 9600

Default: 115200

Enable Network

Enables or disables the display's built-in Ethernet port.

Options: Off, On

Default: Off

IP Address Settings

Enables Dynamic IP mode or sets the static IP address of the display's Ethernet port.

See below more settings.

Power Status Alert

Enables or disables an automatic alert when the display is powered down.

Options: On, Off

Default: Off

Source Status Alert

Enables or disables an automatic alert when the source is changed.

Options: On, Off

Default: Off

Signal Lost Status

Enables or disables an automatic alert when the video signal is lost.

Options: On, Off

Default: Off

Load Default

Loads the default communication settings.

Options: No, Yes

IP Address

Shows the IP address of the display.

Device MAC

Shows the MAC address info of the display.

Assigning an IP address to the display

To assign an IP address to the display, access the IP Address settings menu in the Communication menu. Consult your system administrator if you do not know how to configure the parameters shown in the menu.

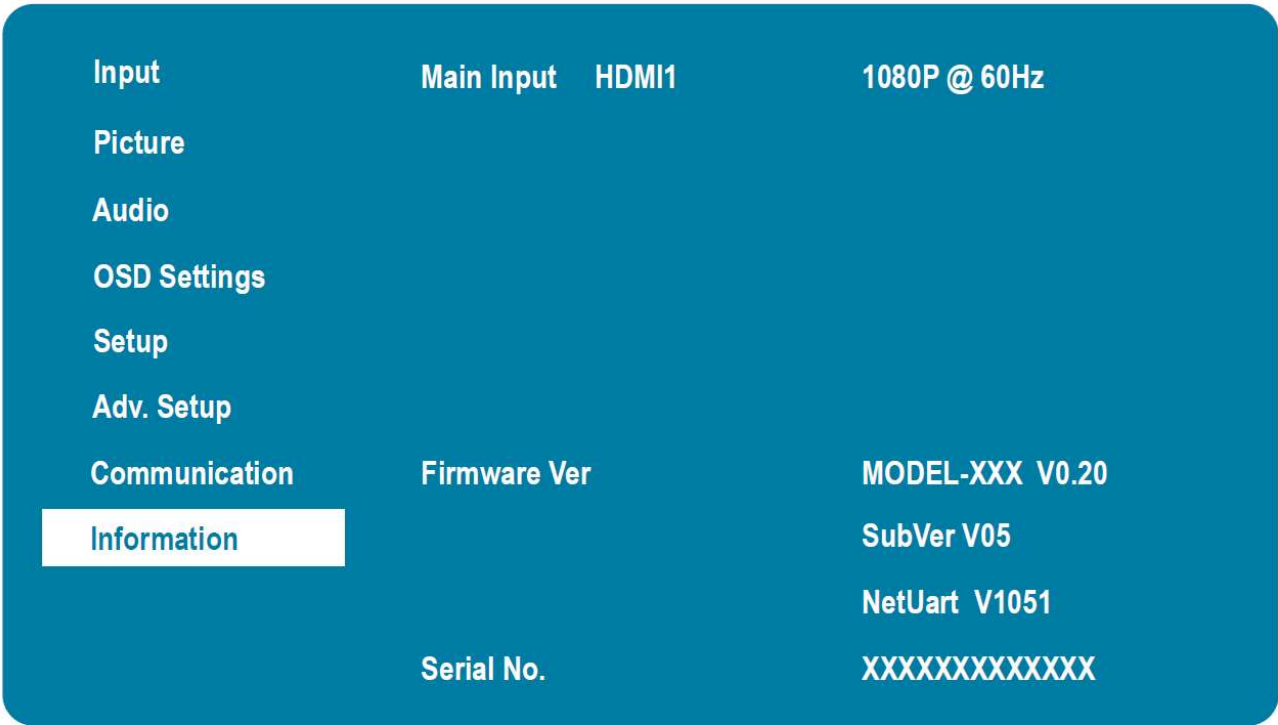
Dynamic IP	Disable
Static IP Address	192 . 168 . 2 . 1
Subnet Mask	255 . 255 . 255 . 0
Gateway	192 . 168 . 2 . 1
DNS Addr.	192 . 168 . 2 . 1
Save Settings	No
Refresh	>>>

The default settings are shown below:

Item	Setting
Dynamic IP	Disable
Static IP Address	192.168.2.1
Subnet Mask	255.255.255.0
Gateway	192.168.2.1
DNS Addr.	192.168.2.1
Save Settings	No

Information menu

This read-only menu provides information on the active sources and the latest firmware version.



Wake up from sleep

By default, the display enters power saving (Sleep Mode) if no signal is received for five minutes. Normally, the RS232, DisplayPort, and HDMI inputs are inactive in sleep mode, to save power.

To change the behavior of sleep mode, change the Wake Up From Sleep setting in the Adv. Setup menu.

- VGA Only (default)—The RS232, DisplayPort, and HDMI inputs are inactive when the display is in sleep mode. The display wakes up when it receives a signal at the VGA input.
- Digital,RS232,Ethernet—The RS232, DisplayPort, and HDMI inputs stay active when the display is in sleep mode. The display wakes up when it receives a signal at the VGA, DisplayPort, or HDMI input.

Default settings

The following table shows the default settings for the menu options.

Menu	Parameter	Default Settings
Input	Power switch	Off
	Main Source	HDMI1
	Auto Scan	Off
	Multi-Source Views	Off
Picture	Aspect Ratio	Full Screen

	Scheme	User
	Brightness	50 or Set by scheme
	Contrast	50 or Set by scheme
	Sharpness	5 or Set by scheme
	Hue	50 or Disabled on Graphic(RGB) Mode
	Saturation	50 or Disabled on Graphic(RGB) Mode
	Backlight	80 or Set by scheme
	Gamma	2.2
	Color Temp.	9300K
	Red Gain	50
	Green Gain	50
	Blue Gain	50
	Red Offset	50
	Green Offset	50
	Blue Offset	50
	RGB Range	Auto
On Screen Display (OSD)	OSD Language	English
	Transparency	0
	OSD Time Out	30 sec
	OSD Rotation	Landscape
Basic Setup	Over scan	0
	Power LED	On
Adv. Setup	Smart Light Control	Off
	IRFM	Off
	Wake Up From Sleep	VGA Only
	EDID Setup	HDMI3~4: 4K2K30Hz
	Factory Reset	No
Communication	Baud rate	115200
	Enable Network	Off

Supported timings

The following table shows the supported timings.

Resolution	Line rate (kHz)	Frame rate (Hz)	Pixel rate (MHz)	HDMI 1-2	HDMI 3-4	DP 1-2	VGA
640x480	31.469	59.94	25.175	X	X	X	X
	37.861	72.809	31.5	X	X	X	X
	37.5	75	31.5	X	X	X	X
800x600	35.156	56.25	36	X	X	X	X
	37.879	60.317	40	X	X	X	X
	48.077	72.188	50	X	X	X	X
	46.875	75	49.5	X	X	X	X
1024x768	48.363	60.004	65	X	X	X	X
	56.476	70.069	75	X	X	X	X
	60.023	75.029	78.75	X	X	X	X
1366x768	47.712	59.789	85.500	X	X	X	X
1280 x 720	44.444	59.98	64	X	X	X	X
	44.772	59.86	74.5	X	X	X	X
	56.456	74.78	95.75	X	X	X	X
1280 x 768	47.776	59.87	79.5	X	X	X	X
	47.396	59.995	68.25	X	X	X	X
1280 x 800	49.306	59.91	71	X	X	X	X
	49.702	59.81	83	X	X	X	X
1152x864	67.500	75.000	108.000	X	X	X	X
1280x1024	63.981	60.020	108.000	X	X	X	X
	79.976	75.025	135.000	X	X	X	X
1440x900	55.469	59.902	88.75	X	X	X	X
	55.935	59.88	106.5	X	X	X	X
1680x1050	64.674	59.883	119	X	X	X	X
	65.29	59.954	146.25	X	X	X	X
1600x1200	75.000	60.000	162.000	X	X	X	X
1920x1080	66.587	59.93	138.5	X	X	X	X
1920x1200	74.038	59.95	154	X	X	X	X
480p	31.469	59.94	27.00	X	X	X	
576p	31.25	50	27	X	X	X	
720P	37.5	50	74.25	X	X	X	

Resolution	Line rate (kHz)	Frame rate (Hz)	Pixel rate (MHz)	HDMI 1-2	HDMI 3-4	DP 1-2	VGA
1280x720	44.995	59.94	74.176	X	X	X	
	45.000	60.000	74.25	X	X	X	
1080p 1920x1080	27.000	24.000	74.250	X	X	X	
	28.125	25.000	74.250	X	X	X	
	33.750	30.000	74.250	X	X	X	
	56.25	50	148.5	X	X	X	
	67.433	59.94	148.352	X	X	X	
	67.5	60	148.5	X	X	X	
3840x2160	54.000	24	297	X	X	X	
	56.250	25.00	297	X	X	X	
	67.500	30	297	X	X	X	
	112.50	50	594	X		X	
	135	60	594	X		X	

External control

RS232 control is not necessary for operation but is a convenient way to control displays from a computer at a distance. Most things you can do with the remote, you can do with RS232 commands. Plus, you can send inquiries to the displays and find out the current settings and values.

RS232 command and response format

Commands sent from an automation/control system or PC to the display must have the following format:

- STX(1byte) + IDT(1byte)+ Type(1byte)+ CMD(3bytes)+ [Value/Reply(1byte)] + ETX(1byte)
- STX : Start byte = 07
- IDT : Do not care
- Type : Read or Write command, 01: read, 02: write; 00: return to host (from monitor)
- CMD : as following tables
- Value : Setting Value of Write Command
- Reply : Return Value of monitor
- ETX : End byte = 08

Transmit from PC (host)

- Read command : 07 IDT 01 CMD 08 (7bytes)
- Write/Setting command : 07 IDT 02 CMD VAL 08 (8bytes)

Return from monitor

The return CMD matches the received CMD and is sent after the action is completed.

Serial port setting

Baud rate	Data Bit	Parity Bit	Stop Bit
115200	8	None	1

Explanation of symbols

▲: Valid command on Power saving/ off mode (the setting of Wake Up From Sleep must not be VGA Only).

Main item	Control Item	CMD	Type	Value/reply (Decimal)	Value/reply (HEX)	Content	CMD (HEX)	Notes
Power Control and Main Input Source	Power Control	POW	W/R	0	00	Off (soft power)	50 4F 57	▲
				1	01	On (soft power)		▲
	Main Input Source	MIN	W/R	0	00	VGA	4D 49 4E	
				13	0D	DisplayPort1		
				16	10	DisplayPort2		
				9	09	HDMI1		
				10	0A	HDMI2		
				11	0B	HDMI3		
				12	0C	HDMI4		
Display Adjustment	Color	BRI	W/R	0 to 100	00 to 64	Backlight	42 52 49	
		BRL	W/R	0 to 100	00 to 64	Brightness	42 52 4C	
		BLC	W/R	0	00	Off (Back Light)	42 4C 43	
				1	01	On (Back Light)		
		CON	W/R	0 to 100	00 to 64	Contrast	43 4F 4E	
		SHA	W/R	0 to 10	00 to 0A	Sharpness	53 48 41	
		HUE	W/R	0 to 100	00 to 64	Hue	48 55 45	
		SAT	W/R	0 to 100	00 to 64	Saturation	53 41 54	
	Scheme	SCM	W/R	0	00	User	53 43 4D	
				1	01	Sport		
				2	02	Game		
				3	03	Cinema		
				4	04	Vivid		
	Color Temperature	COT	W/R	0	00	User	43 4F 54	
				1	01	6500K		
				2	02	9300K		
				6	06	5000K		
				7	07	7500K		
	Gamma	GAC	W/R	0	00	Off (Gamma)	47 41 43	
				1	01	2.2 (Gamma)		
	Gain & Offset	USR	W/R	0 to 100	00 to 64	Red Gain (0 to 100)	55 53 52	
		USG	W/R	0 to 100	00 to 64	Green Gain (0 to 100)	55 53 47	
		USB	W/R	0 to 100	00 to 64	Blue Gain (0 to 100)	55 53 42	

Main item	Control Item	CMD	Type	Value/reply (Decimal)	Value/reply (HEX)	Content	CMD (HEX)	Notes
RTC		UOR	W/R	0 to 100	00 to 64	Red Offset (0 to 100)	55 4F 52	
		UOG	W/R	0 to 100	00 to 64	Green Offset (0 to 100)	55 4F 47	
		UOB	W/R	0 to 100	00 to 64	Blue Offset (0 to 100)	55 4F 42	
	Current Time Adjustment	RTY	W/R	0 to 99	00 to 63	Year	52 54 59	
		RTM	W/R	1 to 12	01 to 0C	Month	52 54 4D	
		RTD	W/R	1 to 31	01 to 1F	Day	52 54 44	
		RTH	W/R	0 to 23	00 to 17	Hour	52 54 48	
		RTN	W/R	0 to 59	00 to 3B	Minute	52 54 4E	
	Timer Mode	TMS	W/R	0	00	Everyday Mode	54 4D 53	
				1	01	Workday Mode		
				2	02	User Mode		
RTC	Enable	AEN	W/R	0 to 127	00 to 7F	In User Mode: Set bit0 to 1: Sunday Enable Set bit1 to 1: Monday Enable Set bit2 to 1: Tuesday Enable Set bit3 to 1: Wednesday Enable Set bit4 to 1: Thursday Enable Set bit5 to 1: Friday Enable Set bit6 to 1: Saturday Enable In Everyday Mode: Set any bit0 to 6 to 1: Mon to Sun Enable In Workday Mode: Set bit0 to 1: Sunday Enable Set any bit1 to 5 to 1: Mon to Fri Enable Set bit6 to 1: Saturday Enable	41 45 4E	
	Disable	AEF	W/R	0 to 127	00 to 7F	In User Mode: Set bit0 to 1: Sunday Disable Set bit1 to 1: Monday Disable Set bit2 to 1: Tuesday Disable Set bit3 to 1: Wednesday Disable Set bit4 to 1: Thursday Disable	41 45 46	

Main item	Control Item	CMD	Type	Value/reply (Decimal)	Value/reply (HEX)	Content	CMD (HEX)	Notes
						Set bit5 to 1: Friday Disable Set bit6 to 1: Saturday Disable In Everyday Mode: Set any bit0 to 6 to 1: Mon to Sun Disable In Workday Mode: Set bit0 to 1: Sunday Disable Set any bit1 to 5 to 1: Mon to Fri Disable Set bit6 to 1: Saturday Disable		
RTC	Sunday	SNH	W/R	0 to 23	00 to 17	Sunday On Hour	53 4E 48	
		SNM	W/R	0 to 59	00 to 3B	Sunday On Minute	53 4E 4D	
		SFH	W/R	0 to 23	00 to 17	Sunday Off Hour	53 46 48	
		SFM	W/R	0 to 59	00 to 3B	Sunday Off Minute	53 46 4D	
	Monday	NNH	W/R	0 to 23	00 to 17	Monday On Hour	4E 4E 48	
		NNM	W/R	0 to 59	00 to 3B	Monday On Minute	4E 4E 4D	
		NFH	W/R	0 to 23	00 to 17	Monday Off Hour	4E 46 48	
		NFM	W/R	0 to 59	00 to 3B	Monday Off Minute	4E 46 4D	
	Tuesday	ENH	W/R	0 to 23	00 to 17	Tuesday On Hour	45 4E 48	
		ENM	W/R	0 to 59	00 to 3B	Tuesday On Minute	45 4E 4D	
		EFH	W/R	0 to 23	00 to 17	Tuesday Off Hour	45 46 48	
		EFM	W/R	0 to 59	00 to 3B	Tuesday Off Minute	45 46 4D	
	Wednesday	DNH	W/R	0 to 23	00 to 17	Wednesday On Hour	44 4E 48	
		DNM	W/R	0 to 59	00 to 3B	Wednesday On Minute	44 4E 4D	
		DFH	W/R	0 to 23	00 to 17	Wednesday Off Hour	44 46 48	
		DFM	W/R	0 to 59	00 to 3B	Wednesday Off Minute	44 46 4D	
	Thursday	UNH	W/R	0 to 23	00 to 17	Thursday On Hour	55 4E 48	
		UNM	W/R	0 to 59	00 to 3B	Thursday On Minute	55 4E 4D	
		UFH	W/R	0 to 23	00 to 17	Thursday Off Hour	55 46 48	
		UFM	W/R	0 to 59	00 to 3B	Thursday Off Minute	55 46 4D	
	Friday	INH	W/R	0 to 23	00 to 17	Friday On Hour	49 4E 48	
		INM	W/R	0 to 59	00 to 3B	Friday On Minute	49 4E 4D	
		IFH	W/R	0 to 23	00 to 17	Friday Off Hour	49 46 48	
		IFM	W/R	0 to 59	00 to 3B	Friday Off Minute	49 46 4D	
	Saturday	TNH	W/R	0 to 23	00 to 17	Saturday On Hour	54 4E 48	
		TNM	W/R	0 to 59	00 to 3B	Saturday On Minute	54 4E 4D	

Main item	Control Item	CMD	Type	Value/reply (Decimal)	Value/reply (HEX)	Content	CMD (HEX)	Notes
		TFH	W/R	0 to 23	00 to 17	Saturday Off Hour	54 46 48	
		TFM	W/R	0 to 59	00 to 3B	Saturday Off Minute	54 46 4D	
Audio	Volume	VOL	W/R	0 to 100	00 to 64	volume	56 4F 4C	
	Bass	BAS	W/R	0 to 12	00 to 0C	Bass (-6 to 6)	42 41 53	
	Treble	TRE	W/R	0 to 12	00 to 0C	Treble (-6 to 6)	54 52 45	
	Balance	BAL	W/R	0 to 12	00 to 0C	Balance (-6 to 6)	42 41 4C	
	Internal Speaker	INS	W/R	0	00	Internal Speaker Off	49 4E 53	
				1	01	Internal Speaker On		
	Mute	MUT	W/R	0	00	Mute Off	4D 55 54	
				1	01	Mute On		
	Audio Source Select	AUS	W/R	0	00	Audio-In	41 55 53	
				1	01	Main Input		
				2	02	Source 2		
				3	03	Source 3		
				4	04	Source 4		
OSD	Transparenc y	OST	W/R	0 to 10	00 to 0A	OSD Transparency	4F 53 54	
	H Position	OSH	W/R	0 to 100	00 to 64	OSD H Position	4F 53 48	
	V Position	OSV	W/R	0 to 100	00 to 64	OSD V Position	4F 53 56	
	OSD Rotation	OSR	W/R	0	00	Landscape	4F 53 52	
				1	01	Portrait		
	OSD Language	OSL	W/R	0	00	English	4F 53 4C	
				1	01	Chinese		
	OSD Timeout	OSO	W/R	5, 10, 20, 30, 60	05, 0A, 14, 1E, 2C	OSD Timeout (5, 10, 20, 30, 60 seconds)	4F 53 4F	
EDID	HDMI1	EH1	W/R	0	00	1080P	45 48 31	
				1	01	4K30 Hz		
				2	02	4K60 Hz		
	HDMI2	EH2	W/R	0	00	1080P	45 48 32	
				1	01	4K30 Hz		
				2	02	4K60 Hz		
	HDMI3	EH3	W/R	0	00	1080P	45 48 33	
				1	01	4K30 Hz		
	HDMI4	EH4	W/R	0	00	1080P	45 48 34	
				1	01	4K30 Hz		
	Display Port1	ED1	W/R	0	00	1080P	45 44 31	
				1	01	4K30 Hz		

Main item	Control Item	CMD	Type	Value/reply (Decimal)	Value/reply (HEX)	Content	CMD (HEX)	Notes
Multi- Source	Display Port2	ED2	W/R	2	02	4K60 Hz	45 44 32	
				0	00	1080P		
				1	01	4K30 Hz		
				2	02	4K60 Hz		
	Multi-Source Views Adjust	PSC	W/R	0	00	OFF	50 53 43	
				1	01	PIP Small		
				2	02	PIP medium		
				3	03	PIP large		
				4	04	Dual View		
				7	07	Quad View		
	PIP source selection	PIN	W/R	(see MIN)	(see MIN)	Select the input source of sub window 1 (see MIN)	50 49 4E	
		PIO	W/R	(see MIN)	(see MIN)	Select the input source of sub window 2 (see MIN)	50 49 4F	
		PIP	W/R	(see MIN)	(see MIN)	Select the input source of sub window 3 (see MIN)	50 49 50	
	PIP position	PPO	W/R	0	00	PIP Position Bottom-left	50 50 4F	
				1	01	PIP Position Bottom-Right		
				2	02	PIP Position Top-left		
				3	03	PIP Position Top-right		
Other Control	Scaling	ASP	W/R	0	00	Native	41 53 50	
				1	01	Full Screen		
				2	02	4:3		
				3	03	Letterbox		
		PAS	W/R	1	01	Full Screen	50 41 53	
				2	02	4:3		
				3	03	Letterbox		
		ZOM	W/R	0~10	00~0A	Adjust over scan ratio	5A 4F 4D	
	Baud Rate Adjustment	BRA	W/R	0	00	115200	42 52 41	
				1	01	38400		
				2	02	19200		
				3	03	9600		
		WFS	W/R	0	00	VGA Only	57 46 53	

Main item	Control Item	CMD	Type	Value/reply (Decimal)	Value/reply (HEX)	Content	CMD (HEX)	Notes
	Wake Up From Sleep			1	01	Digital, RS232, Ethernet		
				2	02	Never Sleep		
	Auto Scan	ATS	W/R	0	00	Off	41 54 53	
				1	01	Main		
				2	02	Multi		
				3	03	All		
	IRFM	IRF	W/R	0	00	Off	49 52 46	
				1	01	On		
	Smart Light Control	SLC	W/R	0	00	Off	53 4C 43	
				1	01	DCR		
				2	02	Light Sensor		
	Power LED	LED	W/R	0	00	Off	4C 45 44	
				1	01	On		
	RGB Color Range	HCR	W/R	0	00	Auto Detect	48 43 52	
				1	01	Full Range		
				2	02	Limited Range		
	Remote Control	RCU	W	0	00	MENU key	52 43 55	
				1	01	INFO key		
				2	02	UP key		
				3	03	DOWN key		
				4	04	LEFT key		
				5	05	RIGHT key		
				6	06	ENTER key		
				7	07	EXIT key		
				8	08	VGA key		
				10	0A	HDMI1 key		
				11	0B	HDMI2 key		
				31	1F	HDMI3 key		
				32	20	HDMI4 key		
				12	0C	DISPLAYPORT1 key		
				34	22	DISPLAYPORT2 key		
				18	12	SOURCE key		
				19	13	P-SOURCE key		
				20	14	PIP key		
				21	15	P-POSITION key		
				22	16	SWAP key		

Main item	Control Item	CMD	Type	Value/reply (Decimal)	Value/reply (HEX)	Content	CMD (HEX)	Notes
				23	17	SCALING key		
				24	18	FREEZE key		
				25	19	Mute key		
				26	1A	BRIGHT key		
				27	1B	CONTRAST key		
				28	1C	AUTO		
				29	1D	VOLUME+ key		
				30	1E	VOLUME- key		
	Default	ALL	W	0	00	Reset all	41 4C 4C	
	Lock Keys	KLC	W/R	0	00	Unlock keys	4B 4C 43	
				1	01	Lock keys		
	Information	SER	R	13 bytes	13 bytes	Read serial number	53 45 52	
		MNA	R	13 bytes	13 bytes	Read model name	4D 4E 41	
		GVE	R	6 bytes	6 bytes	Read firmware version	47 56 45	
		RTV	R	0 to 255	00 to FF	Read RS232 table version	52 54 56	

Example

The following section provide examples of the commands.

Power control and input source

Turn monitor power off [CMD: POW]

[Transmit]: PC → 07 01 02 50 4F 57 00 08 → Monitor

[Return]: Monitor → 07 01 00 50 4F 57 00 08 → PC

Turn monitor power on [CMD: POW]

[Transmit]: PC → 07 01 02 50 4F 57 01 08 → Monitor

[Return]: Monitor → 07 01 00 50 4F 57 01 08 → PC

Read Power Status from monitor [CMD: POW]

[Transmit]: PC → 07 01 01 50 4F 57 08 → Monitor

[Return]: Monitor → 07 01 00 50 4F 57 XX 08 → PC

XX = 0, the set is off. XX = 1, the set is on

Display adjustment

Read back light from monitor [CMD: BRI] (If the setting of back light is 80)

[Transmit]: PC → 07 0101 42 52 49 08 → Monitor

[Return]: Monitor → 07 01 00 42 52 49 50 08 → PC

Set back light 80 to monitor [CMD: BRI]

[Transmit]: PC → 07 01 02 42 52 49 50 08 → Monitor

[Return]: Monitor → 07 01 00 42 52 49 50 08 → PC

Set Contrast 30 to monitor [CMD: CON]

[Transmit]: PC → 07 01 02 43 4F 4E 1E 08 → Monitor

[Return]: Monitor → 07 01 00 43 4F 4E 1E 08 → PC

Read Contrast from monitor [CMD: CON] (If the monitor contrast setting is 50)

[Transmit]: PC → 07 0101 43 4F 4E 08 → Monitor

[Return]: Monitor → 07 01 00 43 4F 4E 32 08 → Monitor

Scaling adjustment

Set monitor to 4:3 [CMD: ASP]

[Transmit]: PC → 07 01 02 41 53 50 02 08 → Monitor

[Return]: Monitor → 07 01 00 41 53 50 02 08 → PC

Other control

Adjust up to monitor [CMD: RCU]

[Transmit]: PC → 07 01 02 52 43 55 02 08 → Monitor

[Return]: Monitor → 07 01 00 52 43 55 02 08 → PC

Reset all to monitor [CMD: ALL]

[Transmit]: PC → 07 01 02 41 4C 4C 00 08 → Monitor

[Return]: Monitor → 07 01 00 41 4C 4C00 08 → PC

Read serial number monitor [CMD: SER]

[Transmit]: PC → 07 01 01 53 45 52 08 → Monitor

[Return]: Monitor → 07 01 00 53 45 52 S(0) ... S(12) 08 → PC , S(0) ~ S(12): serial number in ASCII

Read firmware version monitor [CMD: GVE]

[Transmit]: PC → 07 01 01 47 56 45 08 → Monitor

[Return]: Monitor → 07 01 00 47 56 45 S(0) ... S(5) 08 → PC , S(0) ~ S(5): firmware version in ASCII

Specifications

Learn about the product specifications. Due to continuing research, specifications are subject to change without notice.

Physical specifications

Learn the physical specifications for the tiles and the power supply.

SUHD55-V3 and SUHD65-V3 models

Item	Specification		Unit
	SUHD55-V3	SUHD65-V3	
LCD Panel*	Active Screen Size	55	inch
	Aspect Ratio	16:9	-
	Display Area (HxV)	1209.6 x 680.40	mm
	Display Colors	1.07 billion (8-bit+FRC)	Colors
	Resolution	3840x2160	-
	Backlight Illumination	Edge type	-
	Response time (typ.)	8	ms
	Viewing Angle (typ.)	178/178	deg
	Pixel Pitch (HxW)	315 x 315	um
	Pixel Arrangement	RGB vertical stripe	-
	Color Saturation (typ.)	72%	NTSC
	Display Operation Mode	Transmission mode, Normally Black	-
	Surface Treatment	Front Polarizer: Haze 25%, 3H, Anti glare treatment Bottom Polarizer: Clear	-
Optical	Brightness (typ.)	500	cd/m ²
	Brightness (min.)	400	cd/m ²
	Contrast Ratio (typ.)	1200:1	-
	Contrast Ratio (min.)	1000:1	-
Input / Output	Input Connectors	HDMI 1.4 x2 (4K/ 30Hz) HDMI 2.0 x2 (4K/ 60Hz) DisplayPort 1.2 x2 (4K/ 60Hz) VGA / PC audio in / IR extender ※Detail display mode information on pg.50 "Supported Timings"	-
	Output Connectors **	Audio Out / S/PDIF Out	-

Item		Specification		Unit
		SUHD55-V3	SUHD65-V3	
HDCP Support	DisplayPort, HDMI, DVI	Yes		-
Audio	Internal Speakers	L/R speakers @ 10W each, Full-range, Defeatable		-
Audio	Max input Channel / Each channel	2.5		Vpp
	Channel	2		-
	Input Impedance	100		KΩ
	Po (@Vin=1Vpp,RL=8 Ohm)	10		W
	THD	<10		%
	Adjustment	Linear		-
Performance	Auto Adjust	Clock, Phase, H-Position & V-Position		-
	Screen Scaling	VGA, SVGA, XGA, WXGA, FHD, WQXGA, QHD, WUXGA, UHD		-
	Power Management	VESA DPMS,		-
	Color Adjustment	5000K,6500K, 7500K,9300K, User		-
	OSD Language	English, Chinese (Traditional)		-
Power Consumption	Power Input	AC100-240V(Worldwide), Maximum 2.0A 50/60 Hz	AC100-240V(Worldwide), Maximum 2.7A 50/60 Hz	-
	Typical (Ref.)	130	180	W
	Max	175	240	W
	Stand By	≤ 0.5		W
Size and Weight Objectives	Dimension (W x H x D) (w/ handle)	1253.6(W)x724.4(H)x75(D)	1471.5(W)x846.5(H)x87(D)	mm
	Bezel Width (L/R/T/B)	21	20.5	mm
	Net weight	20.3	27.7	KG
	Gross weight	26.1	34.6	KG
Function	OSD key	7 keys		Key
	Wall mount	400 x 400 VESA	600 x 600 VESA	mm
	Communication port	D-Sub 9 Pin In, Ethernet In		-

SUHD75-V3, SUHD86-V3, and SUHD98-V3 models

Item		Specification			Unit
		SUHD75-V3	SUHD86-V3	SUHD98-V3	
LCD Panel*	Active Screen Size	75	86	98	inch
	Aspect Ratio	16:9			-
	Display Area (HxV)	1649.664 × 927.936	1895.04 × 1065.96	2158.848 × 1214.352	mm
	Display Colors	1.07 billion (8-bit+FRC)			Colors
	Resolution	3840×2160			-
	Backlight Illumination	Edge type			-
	Response time (typ.)	8			ms
	Viewing Angle (typ.)	178/178			deg
	Pixel Pitch (HxW)	429.6 × 429.6	493.5×493.5	562.2×562.2	mm
	Pixel Arrangement	RGB vertical stripe			-
	Color Saturation (typ.)	72%			NTSC
	Display Operation Mode	Transmission mode, Normally Black			-
	Surface Treatment	Front Polarizer: Haze 25%, 3H, Anti glare treatment Bottom Polarizer: Clear			-
Optical*	Brightness (typ.)	500			cd/m ²
	Brightness (min.)	400			cd/m ²
	Contrast Ratio (typ.)	1200:1			-
	Contrast Ratio (min.)	1000:1			-
Input / Output	Input Connectors	HDMI 1.4 x2 (4K/ 30Hz) HDMI 2.0 x2 (4K/ 60Hz) DisplayPort 1.2 x2 (4K/ 60Hz) VGA / PC audio in / IR extender ※Detail display mode information on pg.50 "Supported Timings"			-
	Output Connectors **	Audio Out / S/PDIF Out			-
HDCP Support	DisplayPort, HDMI, DVI	Yes			-
Audio	Internal Speakers	L/R speakers @ 10W each, Full-range, Defeatable			-
Audio	Max input Channel / Each channel	2.5			Vpp
	Channel	2			
	Input Impedance	100			KΩ
	Po (@Vin=1Vpp,RL=4 Ohm)	10			W

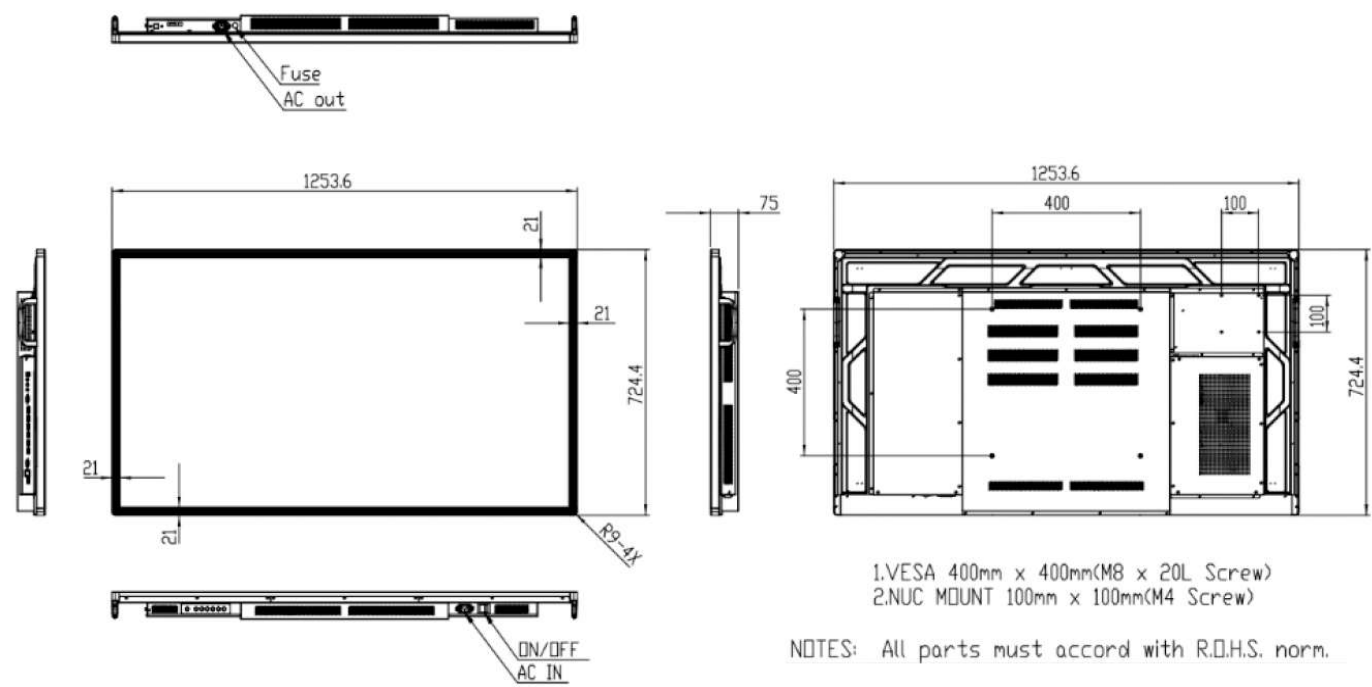
Item		Specification			Unit
		SUHD75-V3	SUHD86-V3	SUHD98-V3	
	THD	<10			%
	Adjustment	Linear			
Performance	Auto Adjust	Clock, Phase, H-Position, V-Position			-
	Screen Scaling	VGA, SVGA, XGA, WXGA, FHD, WQXGA, QHD, WUXGA, UHD			-
	Power Management	VESA DPMS,			-
	Color Adjustment	5000K, 6500K, 7500K, 9300K, User			-
	OSD Language	English, Chinese (Traditional)			-
Power Consumption	Power Input	AC100-240V (Worldwide), Maximum 3.5 A 50/60 Hz	AC100-240V (Worldwide), Maximum 5.2 A 50/60 Hz	AC100-240V (Worldwide), Maximum 6.8 A 50/60 Hz	-
	Typical (Ref.)	220	355	440	W
	Max	300	468	610	W
	Stand By	≤ 0.5			W
Size and Weight Objectives	Dimension (W x H x D) (w/ handle)	1692.7(W)x971 (H)x99(D)	1944.2(W)x1115.2(H) x99.2(D)	2218.8(W)x1274.4(H)x103.7(D)	mm
	Bezel Width (L/R/T/B)	20.5	20.5	28.5	mm
	Net weight	36	51	67	KG
	Gross weight	46	63	84	KG
Function	OSD key	7 keys			Key
	Wall mount	600x600	800x600	1000x800	mm
	Communication port	D-Sub 9 Pin In, Ethernet In			-

Dimensions and weight

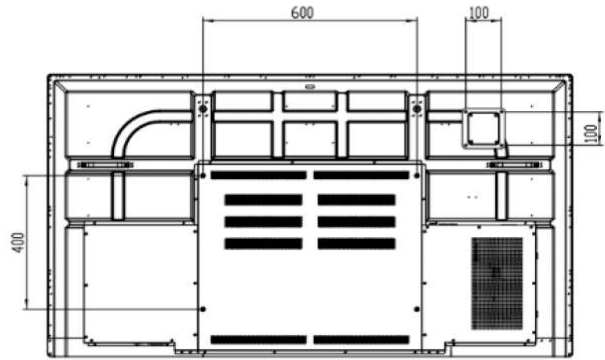
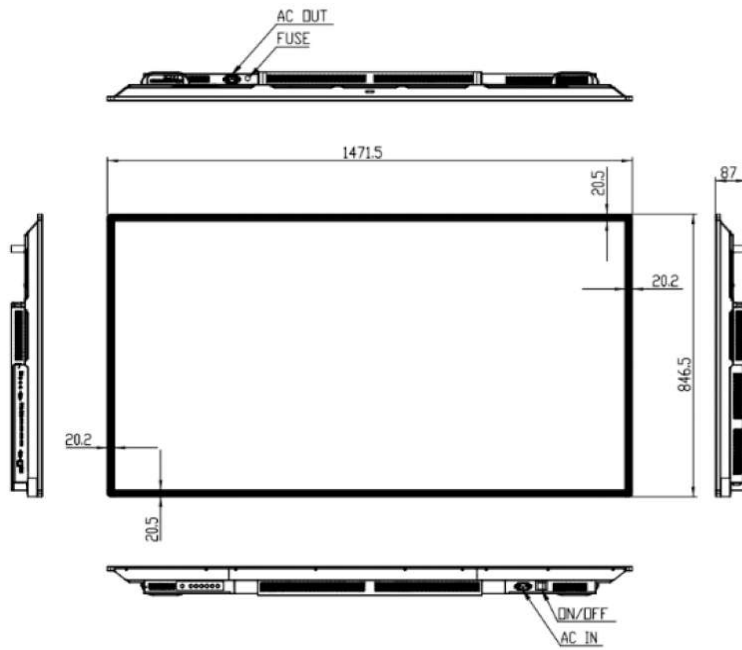
The following table provides the dimensions and weight of the LCD display panels.

Item	Specification					Unit
	SUHD55-V3	SUHD65-V3	SUHD75-V3	SUHD86-V3	SUHD98-V3	
Dimension (W x H x D) (without handle)	1253.6(W)x 724.4(H) x75(D)	1471.5(W)x 846.5(H)x 87(D)	1692.7(W)x 971(H)x 99(D)	1944.2(W)x 1115.2(H)x 99.2(D)	2218.8(W)x 1274.4(H)x 103.7(D)	mm
Bezel Width (L/R/T/B)	21	20.5	20.5	20.5	28.5	mm
Net weight	20.3	27.7	36	51	67	KG
Gross weight	26.1	34.6	46	63	84	KG
Wall mount	400 x 400 VESA	600 x 600 VESA	600x600	800x600	1000x800	mm

SUHD55-V3

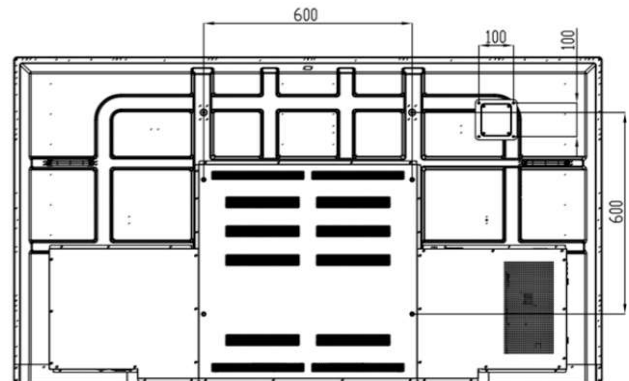
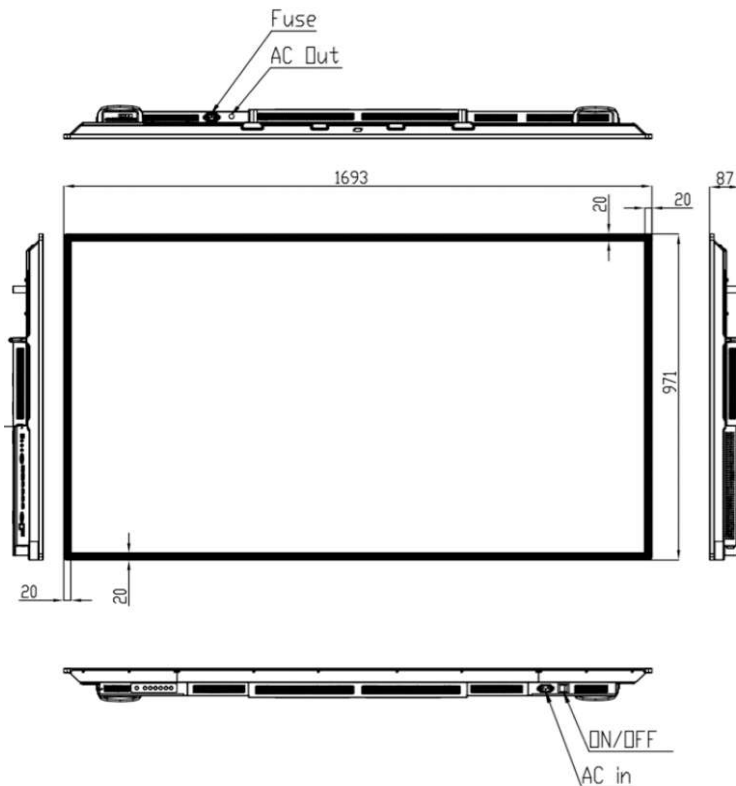


SUHD65-V3



NOTES: All parts must accord with R.D.H.S. norm.

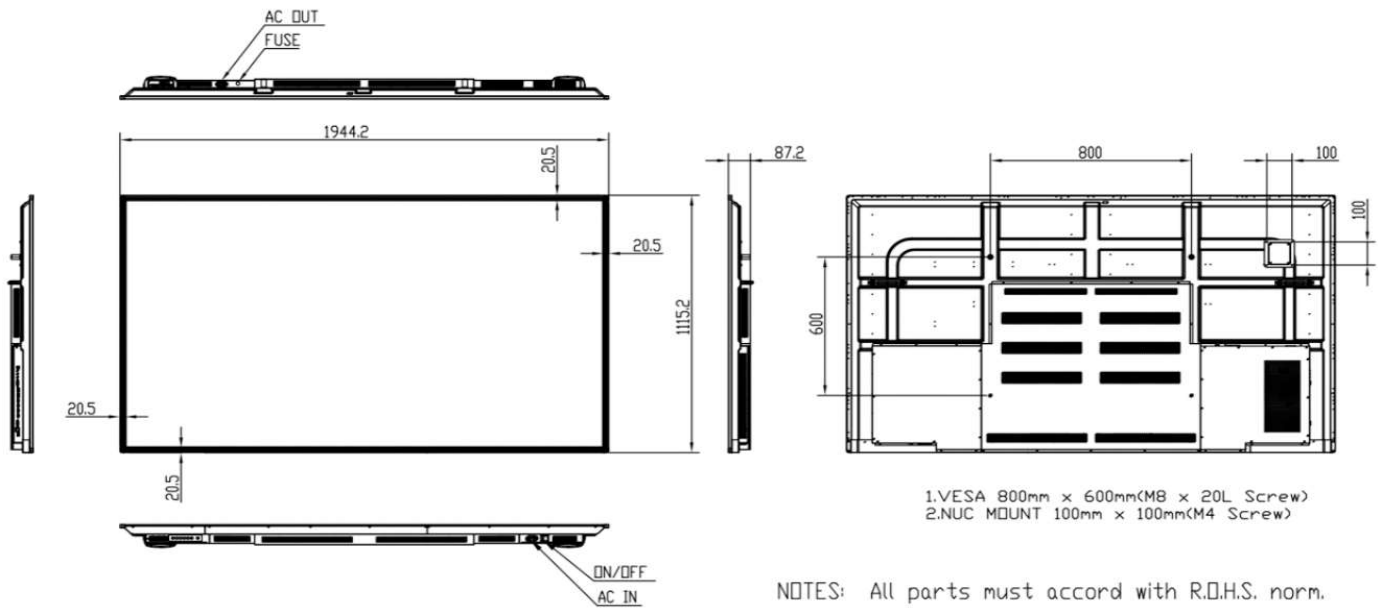
SUHD75-V3



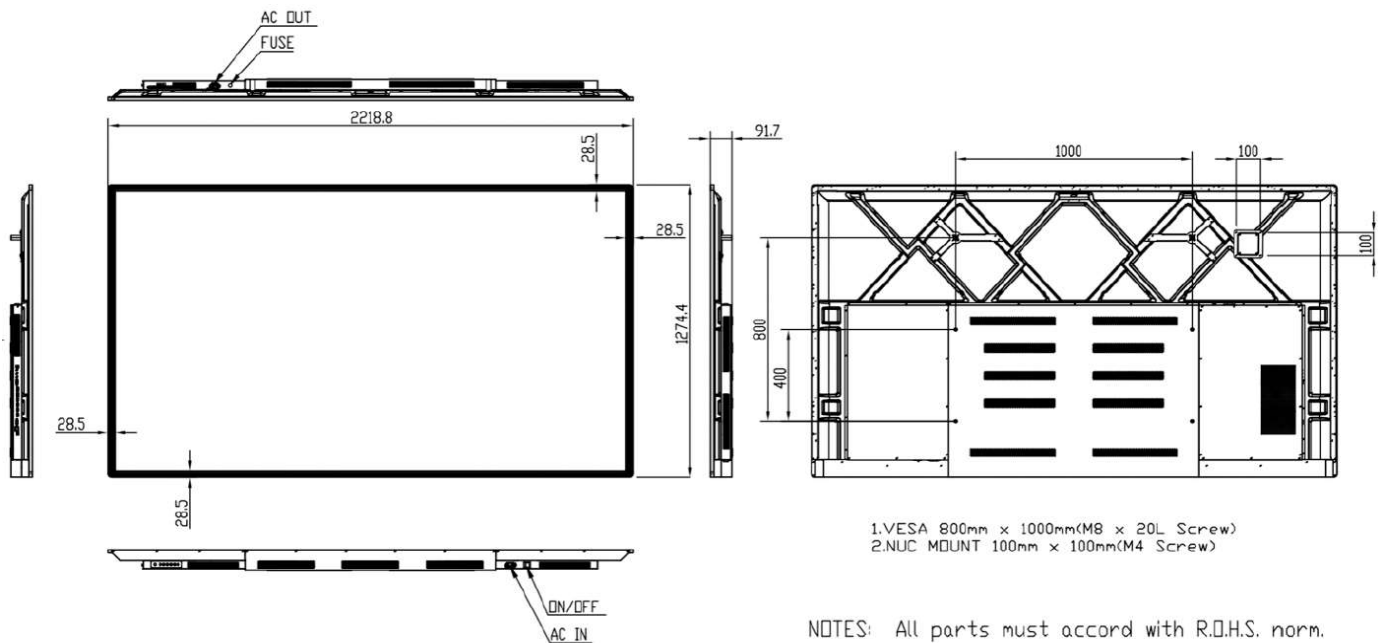
- 1.VESA 600mm x 600mm(M8 x 20L Screw)
- 2.NUC MOUNT 100mm x 100mm(M4 Screw)

NOTES: All parts must accord with R.D.H.S. norm.

SUHD86-V3



SUHD98-V3



Environmental specifications

Learn about the environmental specifications for the display panels.

Item	Specification
Storage temperature	Minimum -20 to maximum 60°C (-4 to 140°F)
Operating temperature	Minimum 0 to maximum 40°C (32 to 104°F)
Humidity	35%~85% RH

Regulatory

FCC	FCC CFR Title 47 Part 15 Subpart B: Class A ICES-003
CE	EN 55032 / BS EN 55032
	EN 55035 / BS EN 55035
	EN IEC 61000-3-2 / BS EN IEC 61000-3-2
	EN 61000-3-3 / BS EN 61000-3-3
cTUVus	UL 62368-1
	CAN/CSA-C22.2 NO.62368-1
CB	IEC 62368-1
CEC	California Code of Regulations, Title 20: Division 2, Chapter 4, Article 4, Sections 1601-1609

Modification statement

Christie Digital Systems has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

Christie Digital Systems n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.

Safety

- UL 62368-1:2019 - Audio/video, information and communication technology equipment - Part 1: Safety requirements.

- CSA C22.2 NO. 62368-1:19 - Audio/video, information and communication technology equipment - Part 1: Safety requirements.
- IEC 62368-1:2018 - Audio/video, information and communication technology equipment – Part 1: Safety requirements.
- EN 62368-1:2014+A11:2017 - Audio/video, information and communication technology equipment – Part 1: Safety requirements.
- BS EN 62368-1:2014+A11:2017 - Audio/video, information and communication technology equipment – Part 1: Safety requirements.
- EN IEC 62368-1:2020+A11:2020 - Audio/video, information and communication technology equipment – Part 1: Safety requirements.
- BS EN IEC 62368-1:2020+A11:2020 - Audio/video, information and communication technology equipment – Part 1: Safety requirements.

RF exposure

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines and RSS-102 of the ISED radio frequency (RF) Exposure rules. This equipment has low levels of RF energy that is deemed to comply without maximum permissive exposure evaluation (MPE).

This device complies with Part 15 of the FCC Rules and Innovation, Science and Economic Development Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Подтверждение соответствия Минкомсвязи России: Декларация соответствия № Д-ИВРД-5325, Д- ИВРД-5326, и Д-ИВРД-5327 от 10.04.2018 года, действительна до 10.04.2024 года, зарегистрирована в Федеральном агентстве связи 17.04.2018

Electro-magnetic compatibility

Emissions

- FCC CFR47, Part 15, Subpart B, Class A – Unintentional Radiators
- CSN ICES-3 (A) / NMB-3 (A)
- EN 55032/BS EN 55032, Class A - Electromagnetic compatibility of multimedia equipment - Emission Requirements
- EN IEC 61000-3-2/BS EN IEC 61000-3-2: Limits for Harmonic Current Emissions
- EN 61000-3-3/BS EN 61000-3-3: Limitations of Voltage Fluctuations, and Flicker

Immunity

- EN55035/BS EN 55035 - Electromagnetic compatibility of multimedia equipment - Immunity Requirements

Environmental

EU Directive (2011/65/EU) on the restriction of the uses of certain hazardous substances (RoHS) in electrical and electronic equipment and the applicable official amendment(s).

EU Directive (2012/19/EU) on waste and electrical and electronic equipment (WEEE) and the applicable official amendment(s)

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and the applicable official amendment(s)

Troubleshooting

Learn about common issues and their solutions.

Check the following chart for possible causes before contacting service personnel.

- Perform the adjustments according to Operating the display panel on page 22.
- If the problem you have experienced is not described below or you cannot correct the problem, stop using the display and call service personnel or your dealer.

Problem	Check these things
No image	Make sure the power plug is installed correctly on both ends.
	Check the main power switch is set to —.
	Check that source equipment is operating correctly.
	Check the input signal is compatible with this display.
	Check the LED status light.
The image is not centered	Check the input signal is compatible with this display.
The image is not locked correctly	Check the input signal is compatible with this display.
The remote control does not work	Make sure the batteries are fresh and are installed correctly.
	Make sure the remote is aimed at the IR sensor.
The picture color looks poor	Check the picture settings.
	Reset the display.