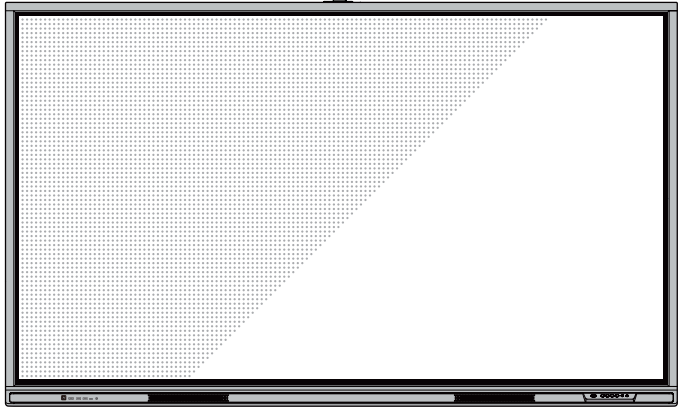


---

# **Q PRO** SERIES

Interactive Flat Panel Display

## **Quick Start Manual**



newline

---

### **For more information**

Please visit our website (<https://newline-interactive.com>) and choose **Support > Downloads > Q Pro series** to download **User Manual** for detailed instruction manual.

### **Contact Us for Support**

Please email us at [support@newline-interactive.com](mailto:support@newline-interactive.com).  
National Service Hotline: +1 888 233 0868

---

### **Newline Assistant**

Please visit our website (<https://newline-interactive.com>) and choose **Support > Downloads > Q Pro series** to download the Newline Assistant installation package.

---

The company is committed to product updates and technical improvements. The technical parameters and specifications are subject to change without prior notice. The pictures in this manual are for reference only.

---

Welcome to the world of **NEWLINE**.

Thank you for choosing the **NEWLINE Q Pro** series Interactive Flat Panel Display. Please use this document to get the most out of your screen.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**NOTE 1:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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:

- Reorient 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.
- Consult the dealer or an experienced radio/TV technician for help.




**NOTE 2:** Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The symbol of the crossed out wheeled bin indicates this product should not be placed in municipal waste. Instead, dispose of waste equipment by handing it over to a designated collection point for the recycling of electrical and electronic equipment.








## Symbol Conventions








Symbols are used in this document to indicate operations that need particular attention. The symbols are defined as follows:


 <b>NOTE</b>	Provides additional information to supplement operation in the main text.
 <b>CAUTION</b>	Indicates a potentially hazardous situation that, if not avoided, could result in equipment damage, data loss, performance deterioration, or unanticipated results.
 <b>WARNING</b>	Indicates a hazard with risk that, if not avoided, could result in death or injury.

## Safety Instruction

For your safety, please read the following instruction before you use the product. Serious injury or property damage may be caused by improper operations. Do not try to repair the product on your own.

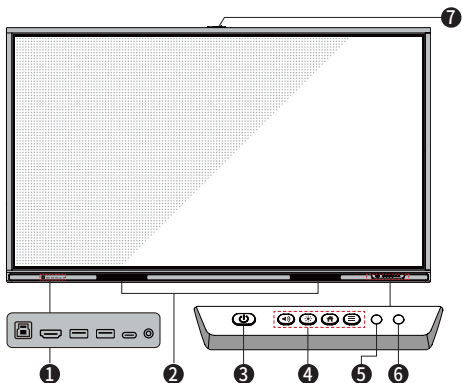
 <b>WARNING</b>	
	<p><b>Disconnect the product from the power supply immediately if major failures occur.</b> Major failures include the following:</p> <ul style="list-style-type: none"> <li>• If smoke, a peculiar smell or an abnormal sound is discharged from the product.</li> <li>• No image or sound is displayed, or the image error occurs.</li> </ul> <p>In the preceding scenarios, do not continue to use the product. Disconnect power supply immediately and contact professional staff for troubleshooting.</p>
	<p><b>Do not drop any liquids, metal or anything combustible onto the product.</b></p> <ul style="list-style-type: none"> <li>• If any liquid or metal are dropped onto or into the product, power off the product and disconnect the power supply, then contact professional staff for solutions.</li> <li>• Pay attention to children when they are close to the product.</li> </ul> <p><b>Put the product on a stable surface.</b> An unstable surface includes, and is not limited to an inclined plane, a shaky stand, desk or platform, that might cause the product to turnover and be damaged.</p>
	<p><b>Do not open the panel or change the product on your own.</b> High voltage components are installed in the product. When you open the panel, high voltage, electric shock, or other dangerous situations may occur. If inspection, adjustment, or maintenance is required, contact the local distributor for help.</p>
	<p><b>Use the provided power supply.</b></p> <ul style="list-style-type: none"> <li>• To prevent the product from being damaged, do not use any types of power cables other than the one provided with the product.</li> <li>• Use a three-wire socket and ensure that it is properly grounded.</li> <li>• Pull out the power plug from the socket if the product is not used for a long period.</li> </ul> <p><b>Clean the power plug regularly.</b></p> <ul style="list-style-type: none"> <li>• Fire or electric shock may be caused if the product is powered on, while you are cleaning.</li> <li>• Pull out the power plug before cleaning it with a dried cloth.</li> </ul>

	<p><b>Do not put items on the top of the product.</b></p> <ul style="list-style-type: none"> <li>Do not put items, such as a container for liquid (a vase, flowerpot, cosmetics or liquid medicine) on the top of the product.</li> <li>If any water or liquid is spilled on the product, the product may short circuit cause fire or electric shock.</li> <li>Do not walk on or hang any items on the product.</li> </ul>
	<p><b>Do not install the product in an improper place.</b></p> <ul style="list-style-type: none"> <li>Do not install the product in humid places, such as the bathroom, the shower room, near windows, or outdoor environments that experience rain, snow or other harsh weather.</li> </ul> <p>Avoid installation near hot spring vapor. The preceding environments may cause faults in the product or electric shock under extreme conditions.</p> <ul style="list-style-type: none"> <li>Do not put an exposed fire source, such as a lit candle on the product.</li> </ul>
	<p><b>Pull out the power supply during thunderstorms.</b></p> <ul style="list-style-type: none"> <li>Do not touch the product during a lighting storm, you may experience an electric shock.</li> <li>Install or place components that supply high enough voltage to cause personal injury out of the reach of children.</li> </ul>
	<p><b>Do not touch the power cable with wet hands.</b></p>
<p><b>⚠ CAUTION</b></p>	
	<p><b>Do not install the product in high temperature environments.</b></p> <ul style="list-style-type: none"> <li>Do not install the product near a heat source, such as a radiator, a heat reservoir, a stove or other heating products.</li> <li>Do not expose the product to direct sunlight, which may cause high temperatures and subsequent faults in the product.</li> </ul>
	<p><b>When transporting the product:</b></p> <ul style="list-style-type: none"> <li>Pack the product for transport or maintenance by using the cartons and cushioning material provided with the product.</li> <li>Move the product vertically during transport. The screen or other components are easily broken if the product is moved in an improper way.</li> <li>Before you move the product, disconnect all external connections and separate all topple preventing products. Move the product carefully to prevent it from being hit or squeezed, especially the screen, which may cause injury if broken.</li> </ul>
	<p><b>Do not cover or block up any vents on the product.</b></p> <ul style="list-style-type: none"> <li>Any overheated components may cause fire, damage the product, and shorten the service life.</li> <li>Do not lay the product down in a way where the venting surface will be covered.</li> <li>Do not install the product on carpet or cloth.</li> <li>Do not use a cloth such as table cloth to cover the product.</li> </ul>

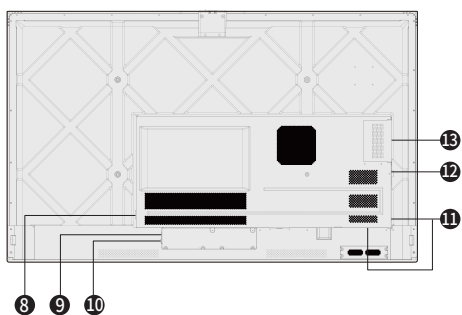
	<p><b>Keep the product away from the radio.</b></p> <p>The product complies with the international EMI standard to prevent radio interference. However, interference may still exist and causes noise in the radio. If noise occurs in the radio, try the following solutions.</p> <ul style="list-style-type: none"> <li>Adjust the direction of the radio antenna to avoid the interference from the product.</li> <li>Keep the radio away from the product.</li> </ul>
	<p><b>If the screen glass is broken or falls off.</b></p> <ul style="list-style-type: none"> <li>Keep all personnel 10 feet away from the screen to ensure safety.</li> <li>Do not perform any installation or disassembly while the screen glass is broken or has fallen off.</li> </ul>
	<p><b>Use the battery correctly.</b></p> <ul style="list-style-type: none"> <li>Galvanic corrosion, electric leakage, and even fire may be caused by improper battery usage.</li> <li>It is recommended to use the designated type of battery and install the battery by the correct electrodes (positive and negative).</li> <li>Do not install and use a new battery with a used one.</li> <li>Take out the battery if the remote control is not used for a long period.</li> <li>Do not expose the battery to overheated environments, such as sunlight and or heat sources.</li> <li>Dispose of the used battery based on your local regulations.</li> </ul>
	<p><b>Do not damage the power cable.</b></p> <ul style="list-style-type: none"> <li>Do not damage, change, twist, bend, or forcibly drag the power cable.</li> <li>Do not put weights (such as the product itself) on the power cable.</li> <li>Do not forcibly drag the cable when you pull out the power plug. If the power cable is damaged, please contact the local distributor to repair or replace it.</li> <li>The power cable in the accessory box is for this product only. Do not use it on other products.</li> </ul>
	<p><b>Additional advice:</b></p> <ul style="list-style-type: none"> <li>Use the product in an environment with comfortable lighting. It is harmful to your eyes to watch in a too bright or too dark environment.</li> <li>Relax your eyes watching for a period of time.</li> <li>Keep sufficient distance from the product to protect your eyes and prevent eyestrain.</li> <li>Adjust the volume to an appropriate level, especially at night.</li> <li>Use amplifier equipment as the audio input source with caution. If you must use amplifier equipment, the input power should not exceed the maximum of speaker power. Otherwise, the speaker can become overpowered and damaged.</li> </ul>
	<p><b>About USB port.</b></p> <p>Front USB ports and rear USB 3.0/USB 2.0 ports switch connections based on signal sources. If the current signal source is reading the data from an external product connecting to the port, please switch the signal source after the data reading is complete. Otherwise, the data or product may be damaged.</p>

# Parts and Functions

## Front View



## Rear View



- |                           |                     |
|---------------------------|---------------------|
| ① Front Ports             | ⑧ Power Output Plug |
| ② Speakers                | ⑨ Power Supply Plug |
| ③ Power On/Off            | ⑩ Power Switch      |
| ④ Front Buttons           | ⑪ Rear Ports        |
| ⑤ Remote Control Receiver | ⑫ Wi-Fi Module      |
| ⑥ Light Sensor            | ⑬ OPS Port          |
| ⑦ Camera Port             |                     |

### Notes

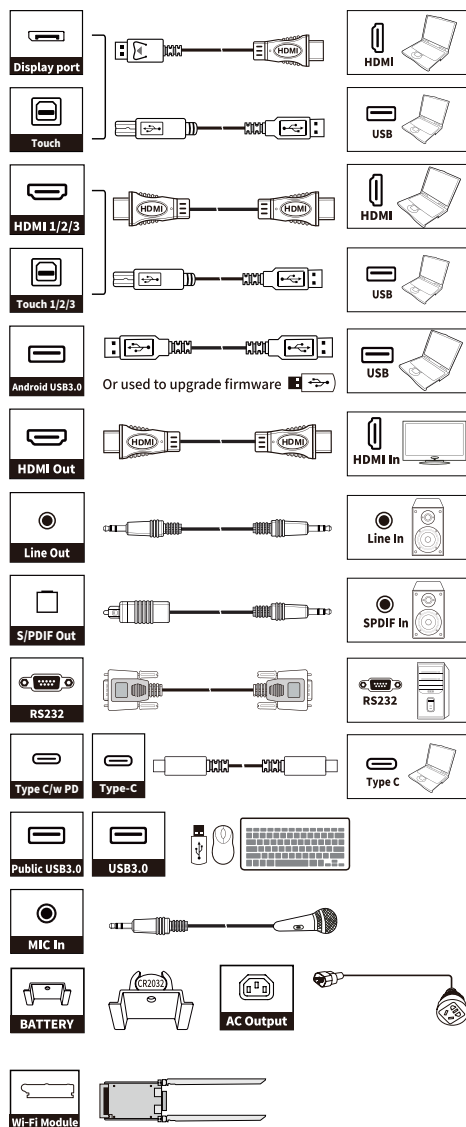
The product images shown are for illustration purposes only and may not be an exact representation of the product.

## Ports

### CAUTION

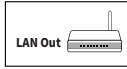
- Front USB ports and rear USB 3.0/USB 2.0 ports switch connections based on signal sources. If the current signal source is reading the data from an external product connecting to the port, please switch the signal source after the data reading is complete. Otherwise, the data or product may be damaged.

- For USB use, USB 2.0 provides up to 500mA whereas USB 3.0 provides up to 900mA of power. Please make sure the USB flash drive is formatted to FAT32 before inserting into the panel.
- Please use the supplied cable in the accessory box or the HDMI association certified shielded cable to better ensure the signal quality.
- While HDMI and Display Port offer support for cables of varying lengths, the maximum cable length that Newline recommends for optimal performance is 3 meters (10 feet) for HDMI and 1.8 meters (around 6 feet) for Display Port. Using cable longer than recommended length may cause data loss and a negative impact to display quality.





Type C on top side



## WARNING

The rear power output port supplies 180W (maximum) power. Please contact Newline to purchase the power AC adapter for powering external devices. Please do not connect any products which require power than listed. Doing so may cause injury or damage to the panel.

## Front Buttons



Buttons	Operations	Functions
	Short press	Power on • Solid white color : Display is on and working.
	Long press for more than 2 seconds	Sleep mode • The red and white lights flicker alternately: Display enter Sleep mode.
	Short press	Adjust the Volume.
	Long press for 5 seconds	Enable or disable the touch function. Notes: When the touch function is disabled, the Android system, external sources and multi-user channels will be in no-touch mode. If you tap the screen, it will display "The touch function is locked!" .
	Short press	Adjust the Brightness.
	Short press	Go to the home page.
	Short press	Open the Quick Setting menu.
	Long press for 5 seconds	Activate/Exit the power button Lock Function.

## Notes

- Press **Volume + >Volume + >Volume - >Volume - > Left > Left > Right > Right** buttons on the Remote control to turn on/off the touch function.
- The power button on the front panel will be locked if you activate the power button lock. Long press button for 5 seconds to exit the lock.

# Installation Guide

## Safety Precautions

### 1. Installation Environment



Avoid Electric Shock



Avoid Strong Magnetic Field



Keep Temperature Below 120° F (≤50°c)



Keep Relative Humidity Under 70%



Keep Away From Combustible Vapors (gas leaks, etc.)



Avoid Any Corrosive Liquids



Do Not Use Outdoors

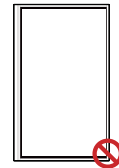


Do Not Install Tilted

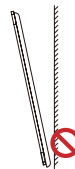
### 2. Installation Direction



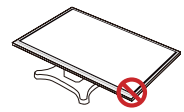
Hang the Product Horizontally



No Vertical Installation



Do Not Install Tilted



Do Not Lay Flat

# Installation Precautions

## 1.Weight Loading

Weight of the panel:

- 55 inch: 31.5 kg/69.4 lb.
- 65 inch: 39 kg/85.9 lb.
- 75 inch: 51 kg/112.4 lb.
- 86 inch: 63 kg/138.8 lb.
- 98 inch: 108 kg/238 lb.

- When using a mobile stand, ensure that the weight of the product is less than the loading capacity of the mobile stand.
- When using the wall-mount bracket, ensure that the wall can support the weight of the product. We recommend that the wall surface be reinforced and have a loading capacity 4 times of the weight of the product. Consult a professional installer for wall-mount installation.

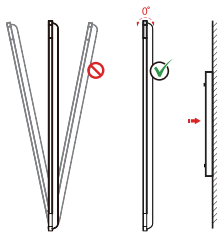
**Note**

The company does not undertake relevant legal responsibility for any problems caused by improper operation, if the third party mobile stand, or wall-mount bracket is beyond the scope of the product.

- Do not install the product where it might be hit by an opening or closing door.

## 2.Vertical installation

When installing the panel, try to keep the panel vertical. An excessive tilt angle may cause damage to the glass or other internal components.

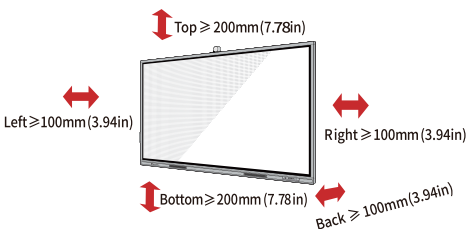


**Note**

For any problem, please contact our support desk. Our company is not responsible for any damage or losses incurred by users if the users fails to follow the instructions.

## 3.Ventilation

Ensure adequate ventilation and/or an air conditioned environment. We recommend keeping certain distances from the side of the product to the wall or panels. Ventilation requirements are shown in following.



# Installation

The dimensions of the four bracket mounting holes on the back panel are VESA MIS-F compliant:

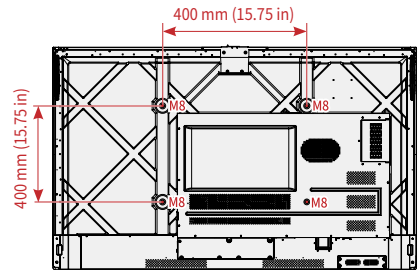
- 98 INCH: 800 x 600 mm/31.50 x 23.62 in;
- 86INCH or 75INCH: 800 x 400 mm/31.50 x 15.75 in;
- 65INCH: 600 x 400 mm/23.62 x 15.75 in;
- 55INCH: 400 x 400 mm/15.75 x 15.75 in.

Use metric M8 screws with a length of 10 mm to 15 mm (0.40 to 0.59 in) to secure the touch screen to the mounting system. Dimensions of the mounting holes on the back panel are shown on the following figure.

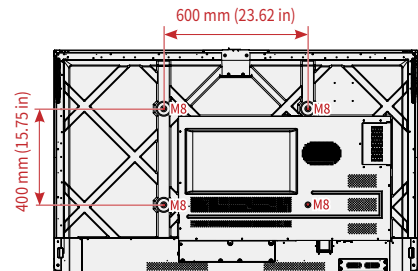
**Note**

Consult a professional installer to install the display product.

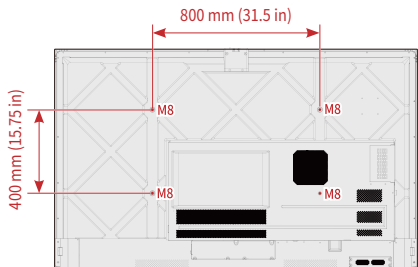
55":



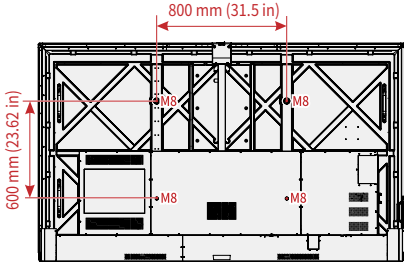
65":



75"/86":



98":



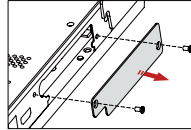
## Installing the Wi-Fi Module

### ⚠ CAUTION

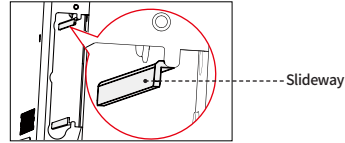
Wi-Fi Module does not support hot plugging. Therefore, you must insert or remove the Wi-Fi Module when the display is powered off. Otherwise, the display or Wi-Fi Module may be damaged.

Perform the following steps to install the Wi-Fi Module.

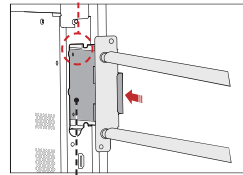
Step 1: Unscrew the 2 screws on the Wi-Fi Module port and remove the shielding cover.



Step 2: Insert the Wi-Fi Module into the port on the rear of the panel until firmly seated, using the 2 screws to secure it.



-- The silver backplane must be stuck to the slideway



-- Insert WiFi module with black fins outward

## Installing the OPS (Optional)

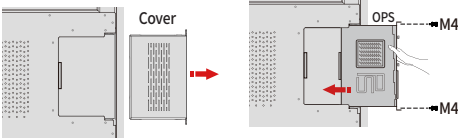
### ⚠ CAUTION

The OPS does not support hot plugging. Therefore, you must insert or remove the OPS when the display is powered off. Otherwise, the display or OPS may be damaged.

You will need to purchase the OPS separately. Perform the following steps to install the OPS.

Step 1: Unscrew the M4 screws by hand to remove the OPS protective cover.

Step 2: Push the OPS into the OPS port on the rear of the panel until firmly seated, using the M4 screws to secure the OPS.

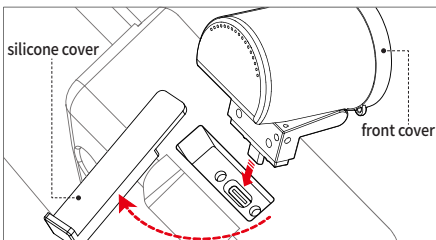


## Installing the Camera(Optional)

Camera is available for purchase as an optional accessory, please install it onto panel referring to following steps. Use the two screws along with camera to fix.

Remove the silicone cover from the middle port on the top of the panel display, then insert the camera. Install 2 fixing screws for secure purpose.

Remove the front cover and start using.



## Power On

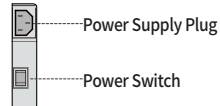
Step 1: Ensure the power cable is fully seated into the panel and wall outlet before powering on the panel.

Please confirm your wall outlet supports a power range of 100V to 240V with frequency at 50 Hz/60 Hz  $\pm$  5% and is fully grounded.

### 📖 Note



The power outlet should be installed near the equipment and should be easily accessible.



Step 2: Flip the power switch located on the side of the product to "I" .

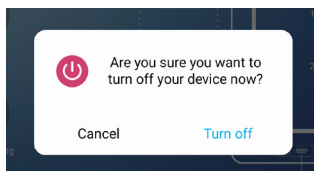


Step 3: Press the power button  on the front control panel or  on the remote control.

# Power Off

Step 1: Press the power button  on the front panel or the power button  on the remote control to enter sleep mode.

Step 2: Long press the power button  on the front panel or the power button  on the remote control and a **Warning** dialog box will be displayed as shown in the following figure.



Step 3: In the **Warning** dialog box, tap **Cancel** to return to working mode. Tap **Turn off** to turn off the display, and the power indicator will turn to red.

Step 4: If you want to completely turn off the panel, turn off the rocker switch behind the panel (next to the power socket) and unplug the power cord.

## Note














- If an OPS is installed, the OPS and the screen will simultaneously powered off when the power is shutoff.
- Please properly shut down the panel before disconnecting the power source or it may cause damage. Accidental power failure may cause damage to the panel.
- Do not repeatedly turn the power on & off in a short period of time as it may cause malfunction.

# Remote Control

## CAUTION

Carefully read the following instructions before using the remote control to avoid possible faults:

- Do not drop or damage the remote control.
- Do not spill water or other liquids on the remote control.
- Do not place the remote control on a wet object.
- Do not place the remote control directly under sunlight or near a heat source.

Buttons	Operations
	Power On/Off
	Go to the Home Page
	Directional Pad
	Confirm/OK
	Press once to freeze the current screen. Press again to exit freeze function.
	Enter the Source Selection Page.
	Return to Previous/Exit.
	App switcher
	<ul style="list-style-type: none"><li>• Open the Quick Setting menu on the embedded operating system.</li><li>• Open the menu in Windows system.</li></ul>
	Take a Screenshot
	Press once to decrease the volume, long press to decrease the volume continuously.
	Mute/Unmute Audio
	Press once to increase the volume, long press to increase the volume continuously.

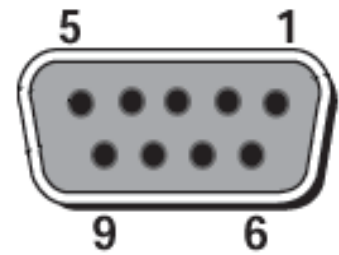




# 5 Serial Port Control

RS232 communication cable (please use cross data cables)

PIN	This Device	Computer
1	NC	NC
2	RXD0	TXD0
3	TXD0	RXD0
4	NC	NC
5	GND	GND
6	NC	NC
7	NC	NC
8	NC	NC
9	NC	NC
Cover	GND	GND



RS232 port of panel

Connect RS-232 port to the PC or controlling product. Enable RS-232 serial port connection and complete the following configuration.

Port: COM1 (Set according to PC or controlling product's port number)			
Baud rate	19200	Odd/even check	None
Data bits	8	Stop bit	1

The following tables list controlling codes, querying codes and return codes.

<b>Function</b>	<b>Controlling codes</b>	<b>Return codes</b>
Power on	7F 08 99 A2 B3 C4 02 FF 01 00 CF	7F 09 99 A2 B3 C4 02 FF 01 00 01 CF
Power off	7F 08 99 A2 B3 C4 02 FF 01 01 CF	7F 09 99 A2 B3 C4 02 FF 01 01 01 CF
Mute/Unmute	7F 08 99 A2 B3 C4 02 FF 01 02 CF	7F 09 99 A2 B3 C4 02 FF 01 02 01 CF
Signal source	7F 08 99 A2 B3 C4 02 FF 01 06 CF	7F 09 99 A2 B3 C4 02 FF 01 06 01 CF
Enable whiteboard	7F 08 99 A2 B3 C4 02 FF 01 07 CF	7F 09 99 A2 B3 C4 02 FF 01 07 01 CF
Display status	7F 08 99 A2 B3 C4 02 FF 01 09 CF	7F 09 99 A2 B3 C4 02 FF 01 09 01 CF
HDMI front / HDMI 1	7F 08 99 A2 B3 C4 02 FF 01 0A CF	7F 09 99 A2 B3 C4 02 FF 01 0A 01 CF
HDMI rear 1 / HDMI 2	7F 08 99 A2 B3 C4 02 FF 01 52 CF	7F 09 99 A2 B3 C4 02 FF 01 52 01 CF
HDMI rear 2 / HDMI 3	7F 08 99 A2 B3 C4 02 FF 01 53 CF	7F 09 99 A2 B3 C4 02 FF 01 53 01 CF
VGA / USB-C (Front)	7F 08 99 A2 B3 C4 02 FF 01 54 CF	7F 09 99 A2 B3 C4 02 FF 01 54 01 CF
USB-C (Rear)	7F 08 99 A2 B3 C4 02 FF 01 55 CF	7F 09 99 A2 B3 C4 02 FF 01 55 01 CF
Internal PC	7F 08 99 A2 B3 C4 02 FF 01 38 CF	7F 09 99 A2 B3 C4 02 FF 01 38 01 CF
DP	7F 08 99 A2 B3 C4 02 FF 01 56 CF	7F 09 99 A2 B3 C4 02 FF 01 56 01 CF
Page up	7F 08 99 A2 B3 C4 02 FF 01 13 CF	7F 09 99 A2 B3 C4 02 FF 01 13 01 CF
Page down	7F 08 99 A2 B3 C4 02 FF 01 14 CF	7F 09 99 A2 B3 C4 02 FF 01 14 01 CF
VOL -	7F 08 99 A2 B3 C4 02 FF 01 17 CF	7F 09 99 A2 B3 C4 02 FF 01 17 01 CF
VOL +	7F 08 99 A2 B3 C4 02 FF 01 18 CF	7F 09 99 A2 B3 C4 02 FF 01 18 01 CF
Menu	7F 08 99 A2 B3 C4 02 FF 01 1B CF	7F 09 99 A2 B3 C4 02 FF 01 1B 01 CF
Home page	7F 08 99 A2 B3 C4 02 FF 01 1C CF	7F 09 99 A2 B3 C4 02 FF 01 1C 01 CF

Return (exit)	7F 08 99 A2 B3 C4 02 FF 01 1D CF	7F 09 99 A2 B3 C4 02 FF 01 1D 01 CF
OK	7F 08 99 A2 B3 C4 02 FF 01 2B CF	7F 09 99 A2 B3 C4 02 FF 01 2B 01 CF
←	7F 08 99 A2 B3 C4 02 FF 01 2C CF	7F 09 99 A2 B3 C4 02 FF 01 2C 01 CF
→	7F 08 99 A2 B3 C4 02 FF 01 2D CF	7F 09 99 A2 B3 C4 02 FF 01 2D 01 CF
↑	7F 08 99 A2 B3 C4 02 FF 01 2E CF	7F 09 99 A2 B3 C4 02 FF 01 2E 01 CF
↓	7F 08 99 A2 B3 C4 02 FF 01 2F CF	7F 09 99 A2 B3 C4 02 FF 01 2F 01 CF
Set volume	7F 08 99 A2 B3 C4 02 FF 05 XX CF	7F 09 99 A2 B3 C4 02 FF 05 XX 01 CF
Query the firmware version number	7F 08 99 A2 B3 C4 02 FF 01 3D CF	7F 09 99 A2 B3 C4 02 FF 01 3D XX CF Note: XX indicates version (20211110183518)
Set display mode	7F 08 99 A2 B3 C4 02 FF 06 XX CF	7F 09 99 A2 B3 C4 02 FF 06 XX 01 CF
Enable the annotation function	7F 08 99 A2 B3 C4 02 FF 01 40 CF	7F 09 99 A2 B3 C4 02 FF 01 40 01 CF
Increase backlight brightness	7F 08 99 A2 B3 C4 02 FF 01 47 CF	7F 09 99 A2 B3 C4 02 FF 01 47 01 CF
Decrease backlight brightness	7F 08 99 A2 B3 C4 02 FF 01 48 CF	7F 09 99 A2 B3 C4 02 FF 01 48 01 CF
Set the value of backlight brightness	7F 08 99 A2 B3 C4 02 FF 09 XX CF	7F 09 99 A2 B3 C4 02 FF 09 XX 01 CF
Switch backlight	7F 08 99 A2 B3 C4 02 FF 01 15 CF	7F 09 99 A2 B3 C4 02 FF 01 15 XX CF
Switch to screen lock	7F 08 99 A2 B3 C4 02 FF 01 57 CF	7F 09 99 A2 B3 C4 02 FF 01 57 01 CF
Screenshot	7F 08 99 A2 B3 C4 02 FF 01 1F CF	7F 09 99 A2 B3 C4 02 FF 01 1F 01 CF

Settings	7F 08 99 A2 B3 C4 02 FF 01 20 CF	7F 09 99 A2 B3 C4 02 FF 01 20 01 CF
Freeze ON/OFF toggle	7F 08 99 A2 B3 C4 02 FF 01 3B CF	7F 09 99 A2 B3 C4 02 FF 01 3B 01 CF
Freeze On	7F 09 99 A2 B3 C4 02 FF 0B 00 CF	7F 09 99 A2 B3 C4 02 FF 0B 00 01 CF
Freeze Off	7F 09 99 A2 B3 C4 02 FF 0B 01 CF	7F 09 99 A2 B3 C4 02 FF 0B 01 01 CF
Mute On	7F 09 99 A2 B3 C4 02 FF 0F 00 CF	7F 09 99 A2 B3 C4 02 FF 0F 00 01 CF
Mute Off	7F 09 99 A2 B3 C4 02 FF 0F 01 CF	7F 09 99 A2 B3 C4 02 FF 0F 01 01 CF
Switch Safety Lock On	7F 09 99 A2 B3 C4 02 FF 0D 01 CF	7F 09 99 A2 B3 C4 02 FF 0D 01 01 CF
Switch Safety Lock Off	7F 09 99 A2 B3 C4 02 FF 0D 00 CF	7F 09 99 A2 B3 C4 02 FF 0D 00 01 CF
Switch Backlight On	7F 09 99 A2 B3 C4 02 FF 0E 01 CF	7F 09 99 A2 B3 C4 02 FF 0E 01 01 CF
Switch Backlight Off	7F 09 99 A2 B3 C4 02 FF 0E 00 CF	7F 09 99 A2 B3 C4 02 FF 0E 00 01 CF
Set Display message on the OSD	7F 09 99 A2 B3 C4 02 FF 1A XX CF	7F 09 99 A2 B3 C4 02 FF 1A 00 XX CF NOTE: XX indicates the value of text content up to 50 characters. ● XX = 01 indicates set OSD OK. ● XX = 00 indicates set OSD failed.

Function	Querying codes	Return codes
Power supply	7F 08 99 A2 B3 C4 02 FF 01 37 CF	7F 09 99 A2 B3 C4 02 FF 01 37 XX CF Notes: XX indicates the power on/off state. XX = 01: power on state; XX = 00: power off state.
Speaker	7F 08 99 A2 B3 C4 02 FF 01 82 CF	7F 09 99 A2 B3 C4 02 FF 01 82 XX CF Notes: 01: mute; 00: non-mute.
Current signal source	7F 08 99 A2 B3 C4 02 FF 01 50 CF	7F 09 99 A2 B3 C4 02 FF 01 50 XX CF Notes: <ul style="list-style-type: none"> <li>● Smart system = 30</li> <li>● PC = 17</li> <li>● DP = 20</li> <li>● HDMI Front (1) = 19</li> <li>● HDMI Rear 1 (2) = 1F</li> <li>● HDMI Rear 2 (3) = 1E</li> <li>● VGA/USB-C Front = 00</li> <li>● USB-C Rear = 01</li> </ul>
Speaker volume	7F 08 99 A2 B3 C4 02 FF 01 33 CF	7F 09 99 A2 B3 C4 02 FF 01 33 XX CF Notes: XX indicates current volume value (XX is a hexadecimal value, range: 00~64). For example, XX = 20 indicates current volume value is 32 (decimal value), XX = 00 indicates mute state.

D.Mode	7F 08 99 A2 B3 C4 02 FF 01 35 CF	7F 09 99 A2 B3 C4 02 FF 01 35 XX CF Notes: XX indicates the mode. XX = 00-standard; XX = 01-ECO mode; XX = 02-custom; XX = 03-auto.
Backlight brightness	7F 08 99 A2 B3 C4 02 FF 01 49 CF	7F 09 99 A2 B3 C4 02 FF 01 49 XX CF Notes: XX indicates the value of backlight brightness (1 - 100), corresponding to the hexadecimal number system (01 - 64).
Backlight status	7F 08 99 A2 B3 C4 02 FF 01 81 CF	7F 09 99 A2 B3 C4 02 FF 01 81 XX CF Notes: XX = 00 indicates the backlight is on. XX = 01 indicates the backlight is off.
Screen lock status	7F 08 99 A2 B3 C4 02 FF 01 84 CF	7F 09 99 A2 B3 C4 02 FF 01 84 XX CF Notes: XX = 01 indicates the child safety lock is on. XX = 00 indicates the child safety lock is off.
Whiteboard state	7F 08 99 A2 B3 C4 02 FF 01 83 CF	7F 09 99 A2 B3 C4 02 FF 01 83 XX CF Notes: XX = 01 indicates the whiteboard state. XX = 00 indicates non-whiteboard state.
Return to system state of the previous options	7F 08 99 A2 B3 C4 02 FF 0A 00 CF	7F 08 99 A2 B3 C4 02 FF 0A 00 AB CD EF GH IJ OP QR ST UV CF Notes: AB: Power supply; CD: Speaker; EF: Current signal source;

		<p>GH: Speaker volume; IJ: D.Mode; OP: Backlight brightness; QR: Backlight state; ST: Whiteboard state; UV: Screen lock state.</p>
--	--	--