



# ProColor Series 1 User Guide

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## Safety Warning

Before installing and operating the display , read this manual thoroughly, and keep it for future reference.

### Placement

- Do not place the display on an unstable cart, stand, tripod, bracket, table, or shelf.
- Do not expose the display to direct sunlight and other sources of heat.
- Do not put the display near appliances that create magnetic fields.
- Do not put any liquid near or on the display.
- Do not put heavy objects on top of the display .

### Power Supply

- Check that the display's operating voltage is identical with your local power supply.
- Unplug display when lightning is present.
- Protect the power cable from physical or mechanical damage.
- Use the provided power cable, do not modify or lengthen it.
- Check and ensure the display is plugged into a grounded outlet.

### LED Screen

- Never use any hard or sharp object.
- Unplug the power cable before cleaning.
- Clean the screen with a soft, dry, dustless cloth.
- Never use water or spray cleaner on the display's glass.

### Temperature

- Do not place the display near or over a radiator or a heater.
- If the display is suddenly moved from a cold to a warm place, do not turn plug it in for at least 2 hours so any condensation can evaporate.
- Normal operating temperature is 0 ~ 40°C

### Humidity

- Do not expose the display to moisture or operate in an area with high humidity.
- Normal operating humidity is 10-90%

### Ventilation

- Put the display in a well ventilated place, so the heating can be released easily.
- Ensure that the display has enough space around it to ensure adequate airflow.
- Recommended spacing for adequate ventilation is: left, right and back > 4 in. (10cm), top > 8 in. (20cm)
- Do not obstruct the air vents in the back of the display.

### Standby

- After an extended period with no input signal the display will enter standby mode.

### Battery

- Dispose of the battery from the remote control in an environmentally responsible manner.

### Power Switch Status Indicator

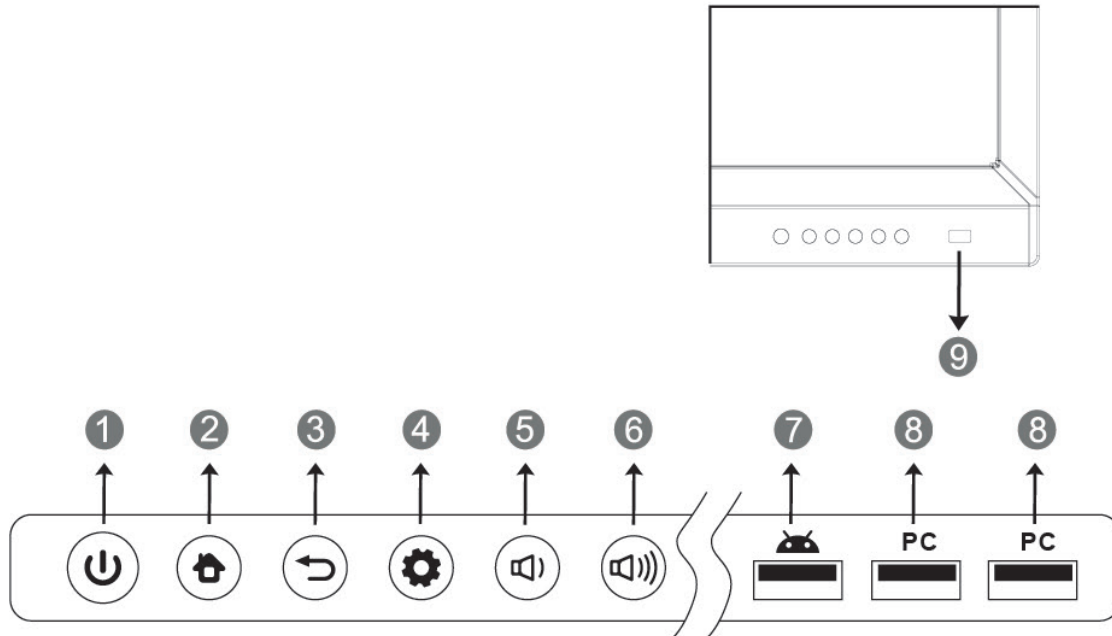
- For the master power switch on the rear - "I" means power on, "O" means power off.
- The indicator at the lower right corner of the display glows red when the display is off and blue when it is operating.








### Maintenance

- This machine can only be serviced by a qualified technician .

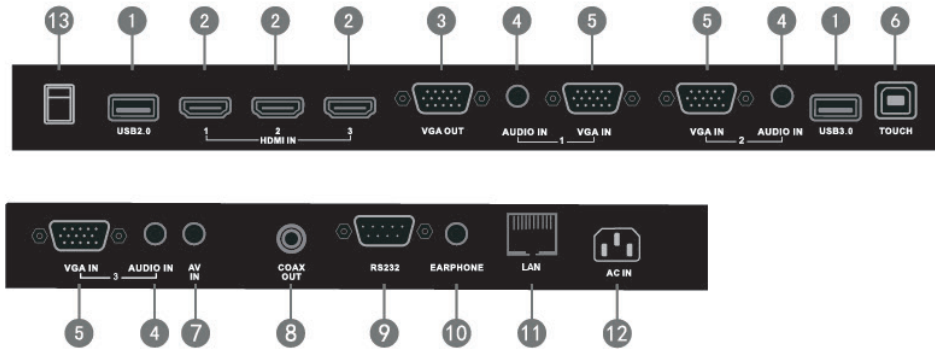
# Overview

## 1 Control Panel



Items	Function description
① 	Tap to enter EnergySaving function Press at least 2 seconds to enter standby mode
② 	HOME button: returns to the home screen of the user interface
③ 	Return button: returns to previous level menu
④ 	Menu button: calls up the function menu
⑤ 	Volume down button: reduces volume
⑥ 	Volume up button: increases volume
⑦ 	USB interface of Android system
⑧ <b>PC</b>	USB connection to optional internal Windows PC
⑨ Remote control IR port	Infra-red (IR) port for remote control - do not block

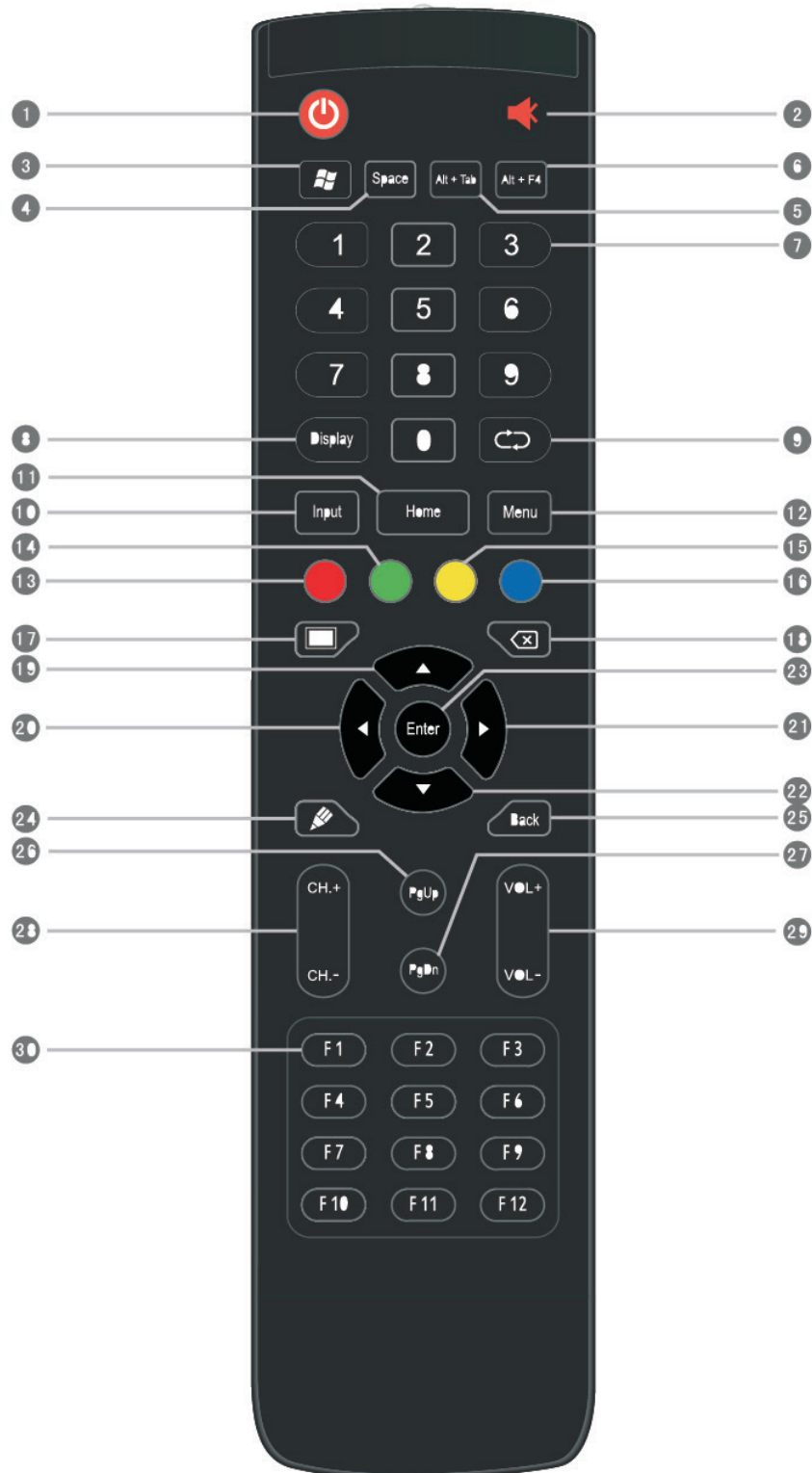
## 2 Terminal Interface














Items	Function description
① USB	For external devices such as hard drive, keyboard, mouse, etc.
② HDMI IN	High-definition multimedia interface
③ VGA OUT	VGA output for analog video
④ AUDIO IN	Analog audio input
⑤ VGA IN	External computer image input
⑥ TOUCH	External computer touch signal output
⑦ AV IN	Composite video and audio input
⑧ COAX OUT	Digital audio coaxial output
⑨ RS-232	Serial control interface
⑩ EARPHONE	Analog audio output
⑪ LAN	RJ-45 connector for Android system only
⑫ AC IN	AC power input
⑬ POWER SWITCH	Master power switch " I " means power on, " O " means power off

### 3 Remote Control

#### 1) Remote Control Button Functions



## Description of the remote control buttons

1		Power on/off
2		Mute
3		Windows key for optional internal Windows PC
4	Space	Built-in computer Space key
5	Alt+Tab	Built-in computer spacebar Alt + Tab
6	Alt+F4	Built-in computer program window close button
7	Numeric keys:	Numeric input keys
8	Display:	Display channel information
9		N/A
10	Input:	Input signal source selection sequentially steps through the inputs
11	Home:	Android system home screen
12	Menu:	Setting menu
13	Red:	Function button
14	Green:	Function button
15	Yellow:	Function button
16	Blue:	Function button
17		Blanks the display's screen
18		Backspace key
19		Direction key, press this button for upwards
20		Direction key, press this button for left
21		Direction key, press this button for right
22		Direction key, press this button for downwards
23	Enter:	Confirmation key
24		Quickly start writing software, select writing pen quickly if software is started.
25	Back:	Return key
26	PgUp:	Optional internal PC computer page (page up)
27	PgDn:	Optional internal PC computer page (page down)
28	CH.+ \ CH-:	Function button
29	VOL+ \ VOL-:	Volume switch key
30	F1-F12:	Optional internal PC function keys

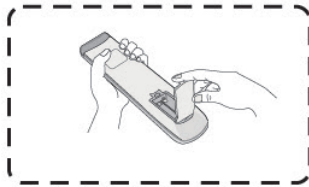
NOTE: If the optional internal PC is not installed the function keys related to it are disabled.



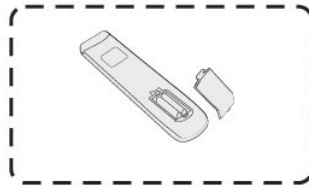
## 2) Remote Control Instruction

### Install Batteries

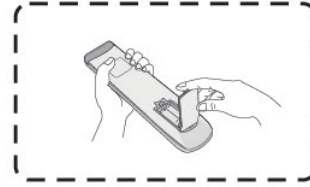
- 1 Open the battery cover as illustrated below
- 2 Install two alkaline AAA type batteries. Do not mix using old and new batteries. Do not use rechargeable batteries
- 3 Close the back cover



(1)

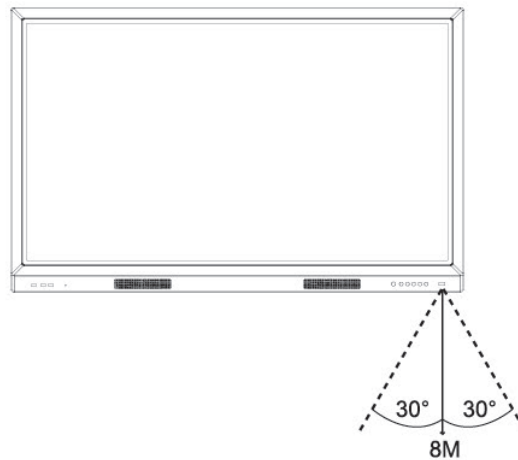


(2)



(3)

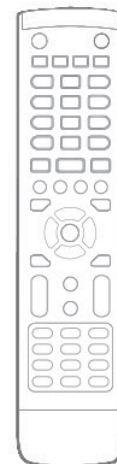
### Operating angle and distance of the remote control



The remote control will usually work properly within the range of 25' (8 m) distance and within 30 degrees left and right from the remote control receiver.

Please dispose of batteries in an environmentally responsible manner.

**CAUTION**  
RISK OF EXPLOSION IF BATTERY IS REPLACED  
BY AN INCORRECT TYPE  
Please dispose of batteries in an environmentally responsible manner.

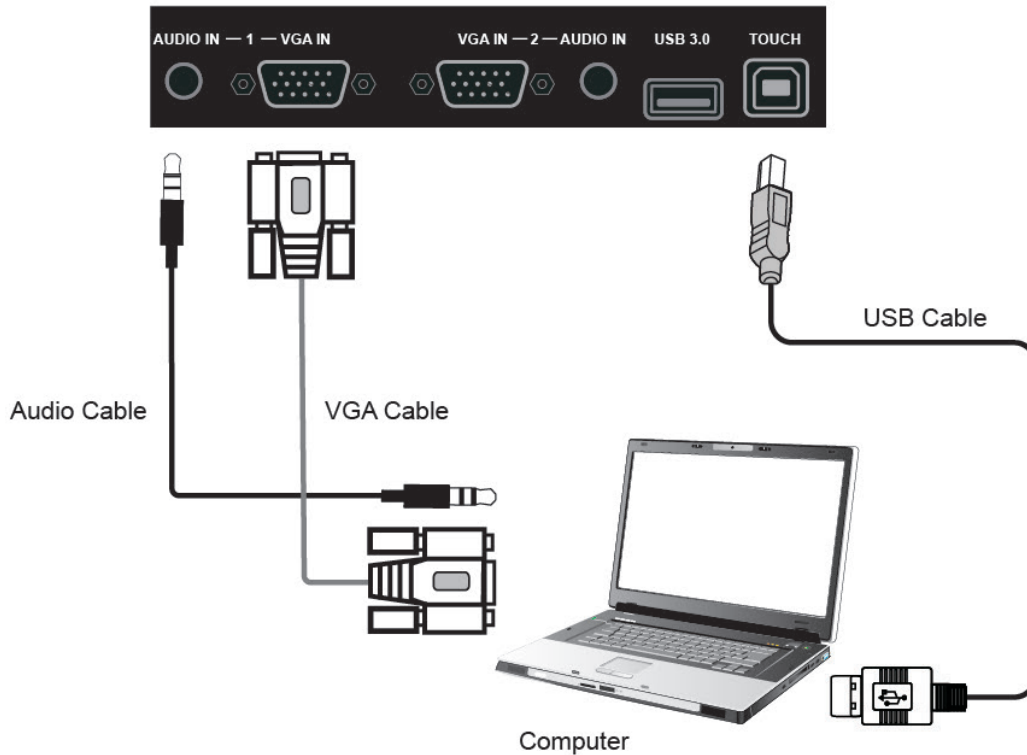




## Connection and Setup

The configurations provided here are representative examples. The actual input/output configuration of your display is provided in the User's Guide available in the Documentation section of the Boxlight web site.

### 1 External Computer Video, Audio and Touch Connection



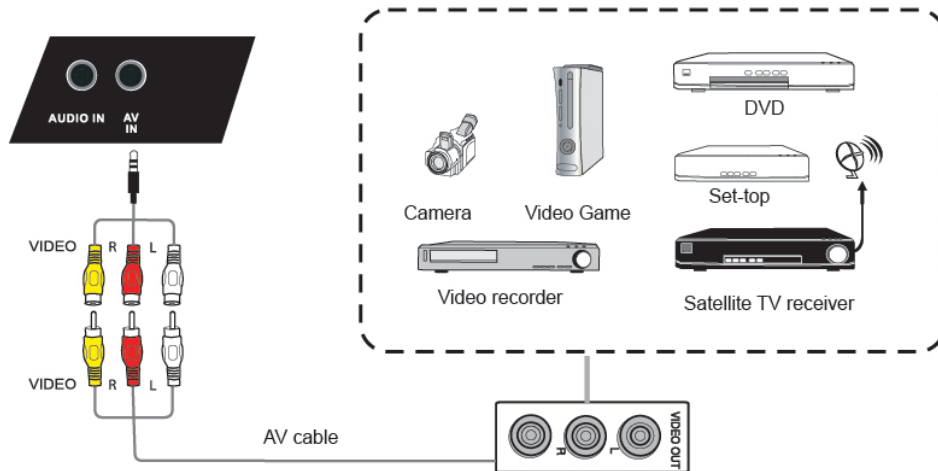
- (1) Use either an HDMI cable or a VGA + analog audio cable pair to connect the display to the external computer.
- (2) Use a USB cable to connect the touch port on the display to a USB port on the external computer
- (3) Make sure the Master Power switch of the display is on
- (4) Start the external computer
- (5) Use the front panel power switch to turn on the display
- (6) Use the front panel INPUT selector or the remote control to choose the HDMI or PC input

#### NOTE:

The output resolution of the external PC should be configured to match the native resolution of the display.

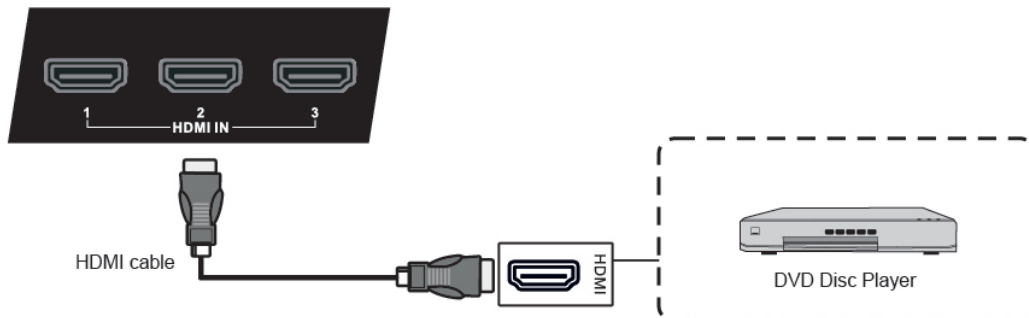
## 2 Audio and Video (AV) Equipment

### Analog Devices Using AV Connections



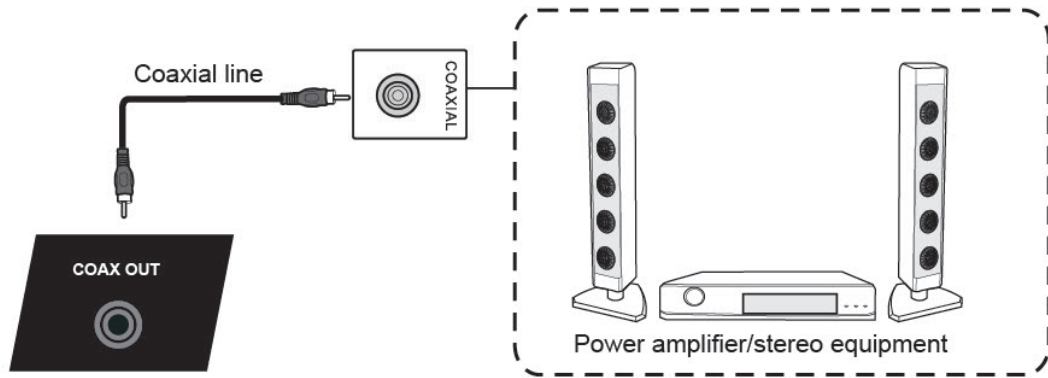
- (1) Use AV audio and video lines to connect audio and video equipments with AV output (yellow for video, red for right sound channel, and white for left sound channel)
- (2) After the connection is completed plug in the display power cord, and turn on all devices
- (3) Use the remote control or the front panel controls to select the AV port

### Digital Devices Using HDMI Connections



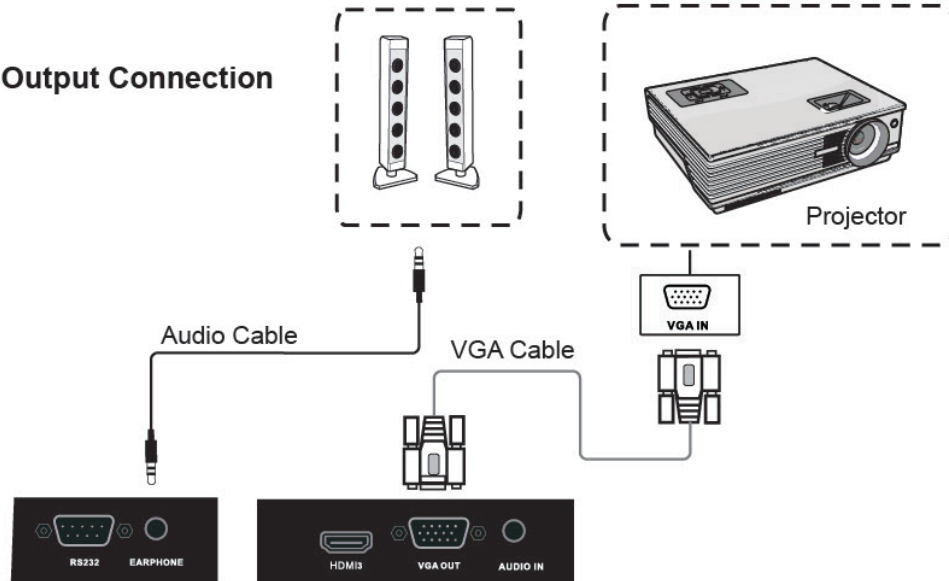
- (1) Use an HDMI cable to connect the external audio and video equipment to one of the display's HDMI inputs
- (2) After line connection, plug in power cord, and switch power on
- (3) Turn on all equipment
- (4) Use the remote control or the front panel controls to select the appropriate HDMI input

### 3 Digital Audio Equipment



- (1) Use a digital audio coaxial cable to connect audio device to the display
- (2) After the connection is completed plug in the display power cord, and turn on all devices
- (3) Use the remote control or the front panel controls to select the appropriate input

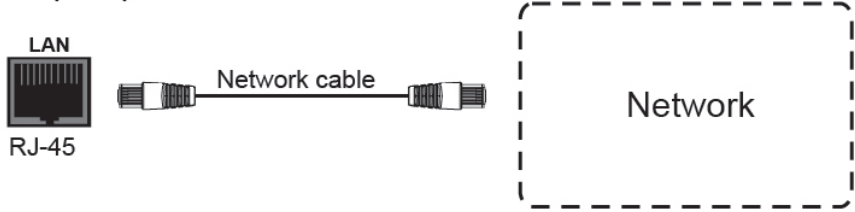
### 4 Video Output Connection



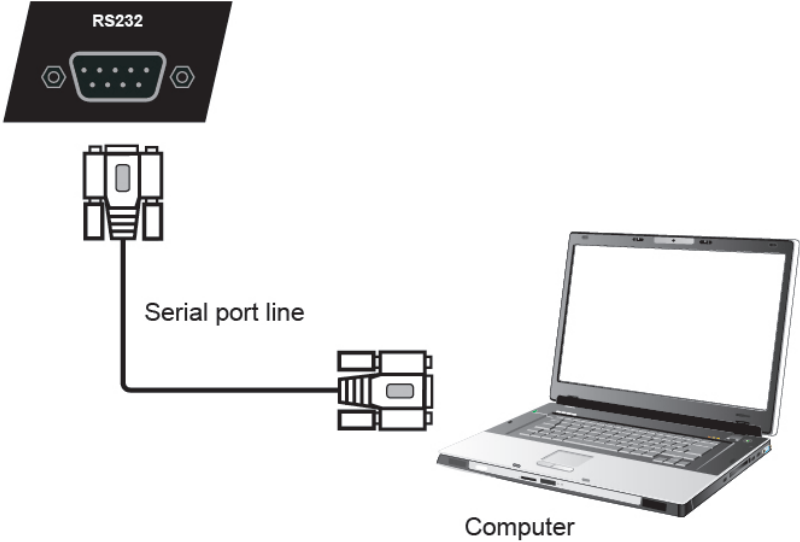
- (1) Use VGA cable to connect display devices with VGA Out, and use headphone line to connect sound output
- (2) After the connections are complete
- (3) Turn on all equipment
- (4) Use the remote control or the front panel controls to select the appropriate input

Note: the VGA OUT & EARPHONE outputs mirror the signals coming in through the VGA IN & AUDIO IN connectors.

### 5 Network (LAN) Connection



### 6 RS232 Connection



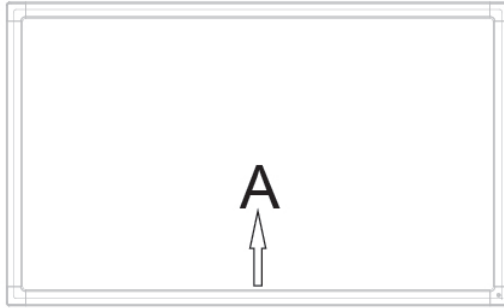
The RS-232 connection is used for control.

## Menu Operation

### Touch menu operation

Activation

Swipe up from the bottom middle towards the center of the screen to call up touch menu, as shown below.



### Settings menu

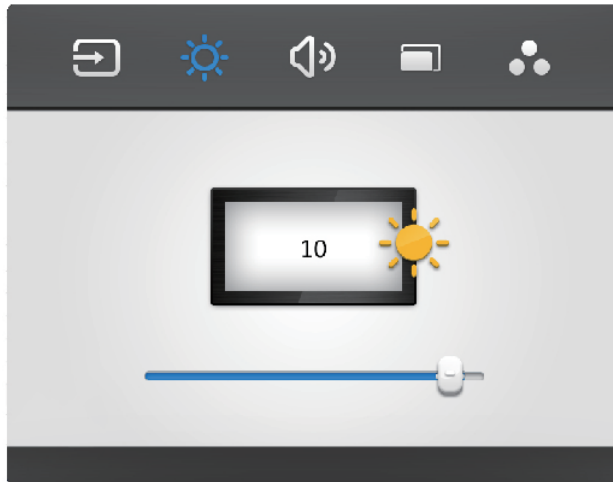
#### Input Setting



- Press INPUT button on remote control or via touch A method to call up Input Setting menu
- Press ▼/▲/◀/▶ button on the remote control to select a specific input
- Press the Enter button on the remote control or directly click with touch pen to confirm
- Press the return key on the remote control, or click in the blank area outside the menu to exit

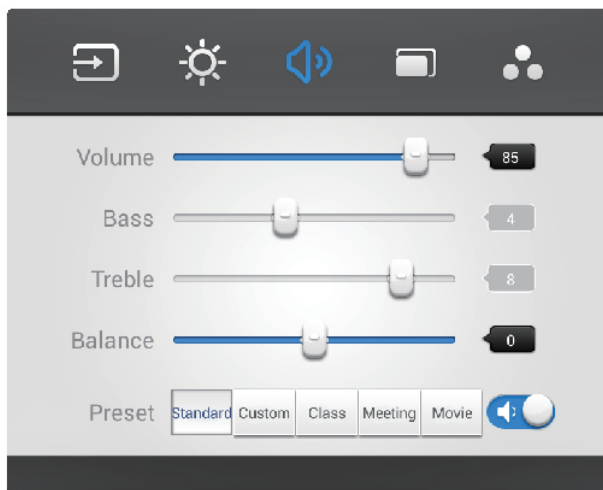
Note: The PC input option will only appear when the optional Internal PC has been installed

## Brightness Adjustment



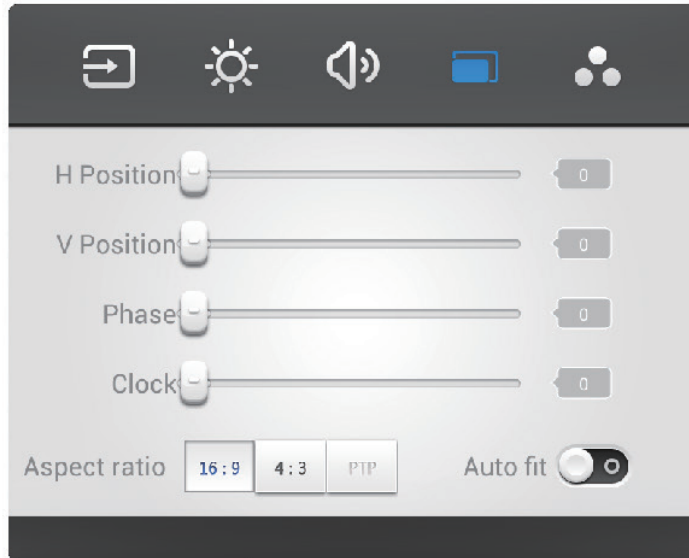
- Open the Settings menu
- Press **▶** on the remote control or directly click "**☀**" icon with the touch pen to choose the Brightness adjustment menu
- Press **▼**, **◀/▶** on the remote control or drag the brightness adjustment bar with to adjust brightness
- Press the return key on the remote control, or click in the blank area outside the menu to exit

## Volume Adjustment



- Open the Settings menu
- Press **▶** on the remote control or directly click the "**🔊**" icon to enter the Volume Settings menu
- Press **▼**, **◀/▶** button on the remote control or directly drag the volume adjustment bar to adjust the volume
- Press the **<🔊>** button on remote control or directly click the mute icon "**🔇**" to enter or exit mute state
- Press the return key on the remote control, or click in the blank area outside the menu to exit

## Zoom Adjustment



- Open the Settings menu
- Press ► button on remote control under setting menu or directly click " " icon to enter the Settings menu
- Press ▼/▲/◀/▶ button on remote control or click directly with touch pen to select and adjust each option
- Press the return key on the remote control, or click in the blank area outside the menu to exit

### H position

Press ◀/▶ button on the remote control or directly drag the icon to adjust the horizontal position of image

### V Position

Press ◀/▶ button on the remote control or directly drag the icon to adjust the vertical position

### Phase

Press ◀/▶ button on the remote control or directly drag the icon to adjust phase

### Clock

Press ◀/▶ button on remote control or directly drag the icon to adjust clock

### Aspect ratio

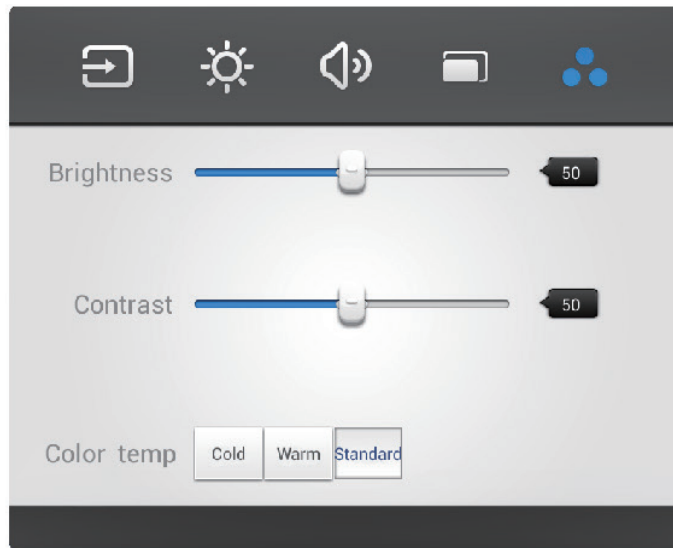
Press ◀/▶ button on remote control or press Enter button or directly click the icon to change display ratio


### Auto-Fit

Press Enter button on remote control or directly click the icon to automatically adjust horizontal, vertical position/ phase and clock



## Screen Adjustment



- When not in Android mode, press the Menu button on the remote control or swipe up to open the Settings menu
- Press ► button on the remote control or click the “” icon to enter the Advanced Settings menu
- Press ▼/▲/◀/▶ button on the remote control or click to select and adjust each option
- Press the return key on the remote control, or click in the blank area outside the menu to exit

### Brightness

Press ◀/▶ button on the remote control or drag the icon to adjust brightness

### Contrast

Press ◀/▶ button on the remote control or drag the icon to adjust contrast

### Color temp

Press ◀/▶ button on the remote control or drag the icon to adjust the color temperature

Note: Some adjustments are not valid with some inputs. In those cases, the adjustments are disabled

## Simple Troubleshooting

### Display not powering up

Remote control failure	<ol style="list-style-type: none"> <li>1. Check whether something is blocking the remote control receiving infra-red port and preventing the "On" command from reaching the display</li> <li>2. Check whether the batteries are inserted properly</li> <li>3. Check whether the remote control needs new batteries.</li> </ol>
Display has automatically shut down	<ol style="list-style-type: none"> <li>1. Check if the display has "gone to sleep" in low-power mode</li> <li>2. Check whether there is sudden power outage and the display shut down</li> <li>3. Check whether there was a "no signal" automatic shutdown</li> </ol>

### PC Mode - No Image Displayed

PC video resolution out of range	<ol style="list-style-type: none"> <li>1. Check whether PC resolution is set to match that of the display</li> <li>2. Adjust line and field synchronization in menu</li> </ol>
Background has vertical lines or streaks	<ol style="list-style-type: none"> <li>1. Select automatic correction in menu.</li> <li>2. Adjust clock and phase position in menu.</li> </ol>
Image lack of color, color is incorrect	<ol style="list-style-type: none"> <li>1. Check whether the video connector is properly seated and secured at PC and display ends</li> <li>2. Adjust the image using the Settings functions</li> </ol>
Display format that is not supported	<ol style="list-style-type: none"> <li>1. Select automatic correction in menu.</li> <li>2. Adjust clock and phase position in menu.</li> </ol>

### Touch Function

Touch function not working	<ol style="list-style-type: none"> <li>1. Check whether touch driver is installed and started.</li> <li>2. Check whether the size of article touched is comparable with finger.</li> </ol>
Touch positioning not correct	<ol style="list-style-type: none"> <li>1. Re-calibrate</li> <li>2. Check whether driver is properly installed</li> </ol>

### Video Input Not Displaying

No picture and no sound	<ol style="list-style-type: none"> <li>1. Check whether the display is powered up and the correct input selected</li> <li>2. Check whether the video cable is properly seated at source and display ends</li> <li>3. If in internal computer mode, check verify the internal computer is powered up</li> </ol>
With horizontal or vertical stripes or image dithering	<ol style="list-style-type: none"> <li>1. Verify the signal wire is properly seated at source and display ends</li> <li>2. Check whether other electronic equipment or power tools are placed around the machine.</li> </ol>
No color, color is weak or image is weak	<ol style="list-style-type: none"> <li>1. Adjust the image using the Settings functions</li> <li>2. Verify the signal wire is properly seated at source and display ends</li> </ol>

### Audio Not Present

Image appears but no sound	<ol style="list-style-type: none"> <li>1. Check whether mute mode is active</li> <li>2. Press VOL + / - to adjust volume.</li> <li>3. Verify the audio cable is properly seated at source and display ends</li> </ol>
Only one speaker has sound	<ol style="list-style-type: none"> <li>1. Adjust sound balance using Settings menu.</li> <li>2. Verify the computer is sending out two channels.</li> <li>3. Verify the audio cable is properly seated at source and display ends</li> </ol>

## Maintenance

Proper maintenance can avoid many early faults and regular careful cleaning can help maintain proper operation. Please unplug power plug before cleaning and maintenance, to prevent electric shock.

### Clean screen

Please only use cleaning systems specifically designed for flat screen displays  
Be careful not to get any liquid into the display  
Do not use any regular window cleaning liquid



### Clean face frame

Please use dry, soft, lint-free cloth to wipe front frame.

