

# **Avtek TouchScreen Pro4K**

**series interactive monitor**



**avtek**

**User Manual**

# Warnings

Before working with the device, please read this manual carefully and keep it for future reference.

## Placing

- Do not place the device on unstable carts, bases, stands, tables or shelves.
- Do not expose the device to direct sunlight or other heat sources.
- Do not place the device near equipment that generates a magnetic field.
- Do not put liquids near or on the device.
- Never spill liquids of any kind on the device.
- Do not place heavy objects on the device.

## Power supply

- Check that the operating voltage of the device is compatible with the power source.
- Please disconnect the power supply and external antenna if there is stormy weather in the area.
- Please unplug the power supply if no one will be in the room, or if the device will not be used for a long time.
- Please protect the power cord from physical and mechanical damage.
- Please use the power cord included in the kit, do not modify or extend it.
- Please make sure that the AC source is grounded.

## LED screen

- Do not replace the dedicated pen with any sharp or hard objects.
- Disconnect the power before cleaning the screen.
- Use a clean, soft and dry cloth for cleaning.
- Do not use water or spray detergent to clean the device.
- a thorough cleaning, contact an authorized service center.
- Please do not display high brightness images for a long time.

## Observation distance

- The optimal distance for viewers from the screen is 5-7 meters from the diagonal of the monitor.
- The optimal viewing angle is within 176 degrees.

## Temperature

- Do not place the device near or above a heater.
- If the device has been moved from a cold environment to a warm one, unplug the power supply for at least 2 hours to eliminate any moisture that may have formed inside the monitor.
- The optimal temperature for operation of the device is 0 - 40<sup>(o)</sup>C.

## Moisture

- Do not expose the device to rain, drizzle or place it near water.
- Use in a dry and cool room. The optimal humidity for the operation of the device is 10 - 90%.

## Ventilation

- Do not obstruct the ventilation openings.
- Make sure to leave enough space around the device for ventilation: 10 centimeters on the left and right sides and at the back, 20 centimeters at the top.

## Headphones

- Using headphones for long periods of time at high volume can damage hearing.
- Before using the headphones, please lower the volume.

## Standby mode

- Pressing the standby button, will put the device into this mode.

## Battery

- Dispose of used batteries properly.
- Please keep batteries away from children and do not throw batteries into fire.

## Notes on cleaning

- There are ventilation holes on the back panel. Please do not expose them to water.

## Power signs

- "I" indicates power on, "O" off.

## Notes on maintenance

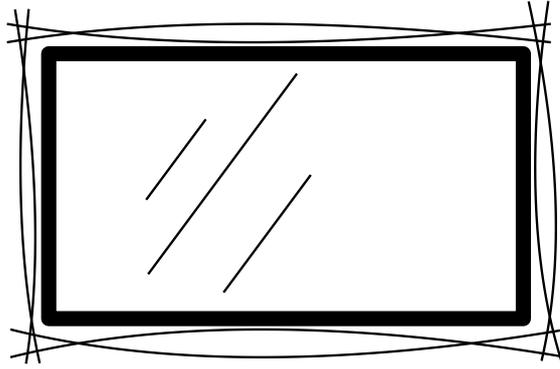
- The device can only be maintained by certified technicians.

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# Installation

## 1. Contents package



Quick reference guide



Pens



Batteries



Wireless remote control



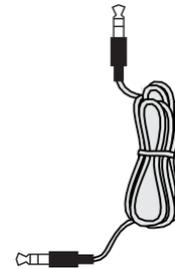
Power cable



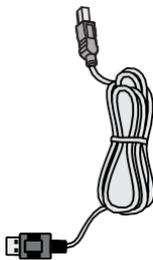
VGA cable



USB cable



Headphone cable

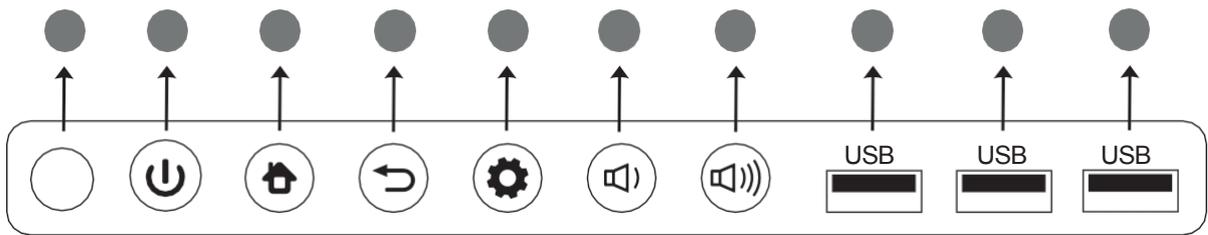


HDMI cable



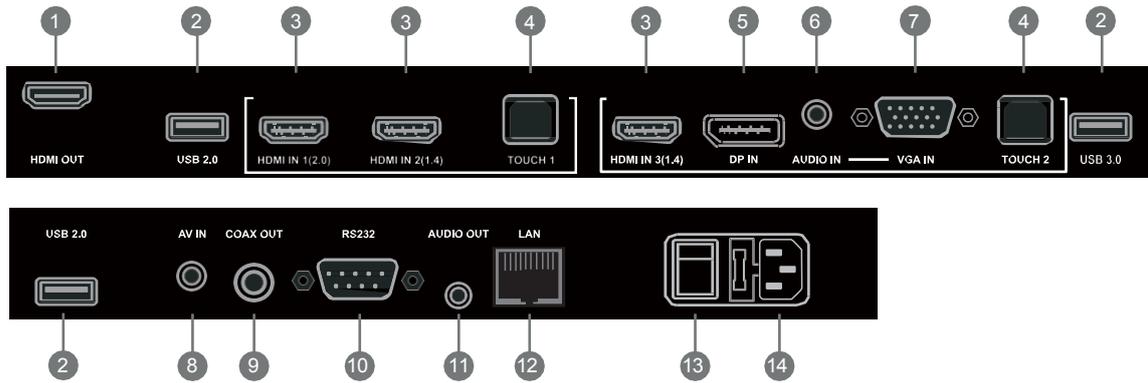
AV cable

## 2. Panel control panel



Position	Functional description
1 	Touch to activate the power saving function. Press for at least 2 seconds to activate standby mode.
2 	Button to return to the home screen.
3 	Button to return to the previous menu screen.
4 	Menu call button.
5 	A button to reduce the volume of sound.
6 	Button to increase the intensity of the sound.
7 USB	USB interface for Android and embedded PC.
8 Signal receiver remote control	It receives the signal of the wireless remote control. Do not cover it with any objects.

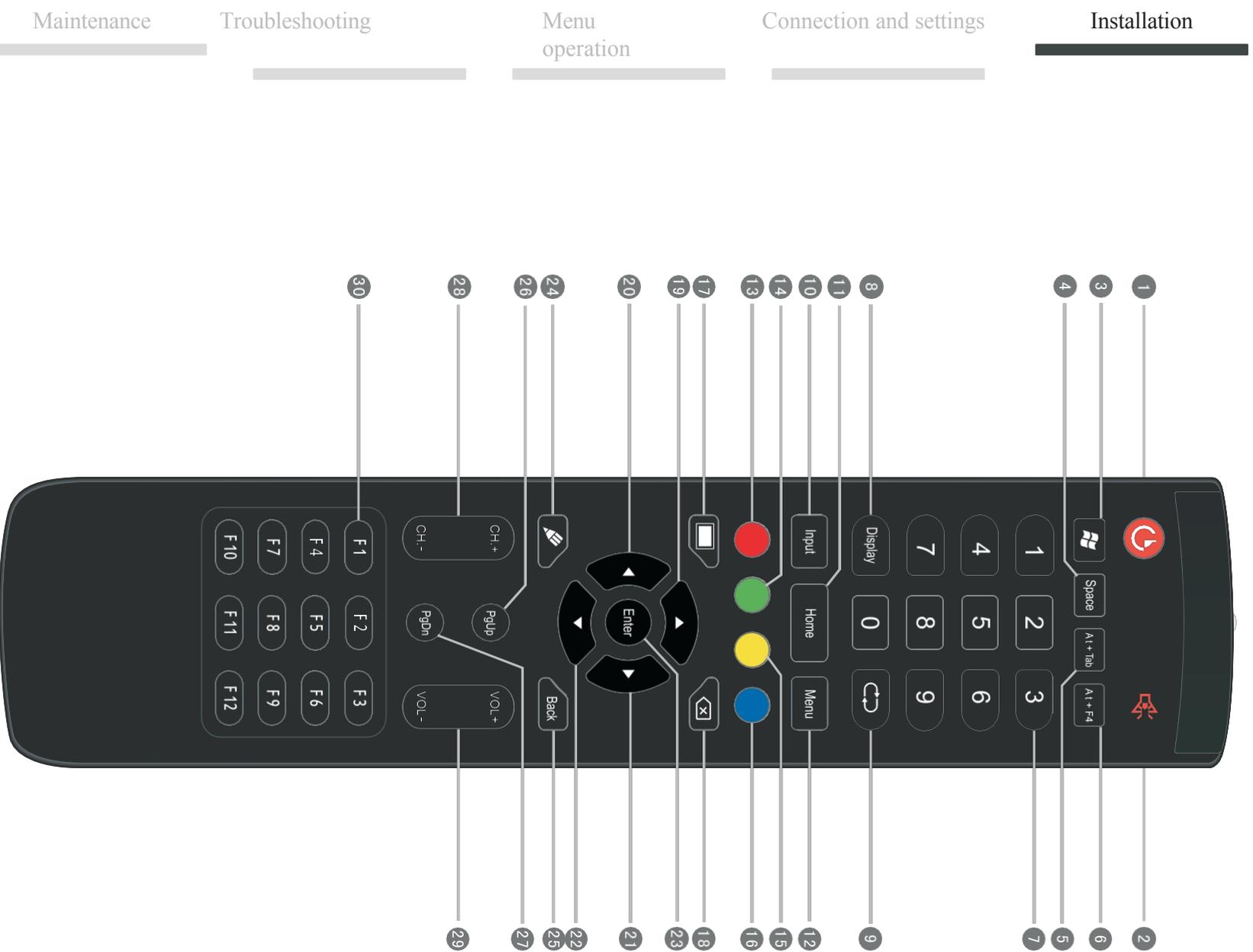
### 3. Interface terminal



Position	Functional description
HDMI OUT	Output connector for High Definition Multimedia Interface.
② USB	For connecting devices such as portable hard drive, mouse, keyboard, flash drive, etc.
③ HDMI IN	Input connector for High Definition Multimedia Interface.
④ TOUCH	A connector that communicates the touch signal with an external computer.
⑤ DP	DisplayPort input connector
⑥ AUDIO IN	Audio input for an external computer.
⑦ VGA IN	Image input for an external computer.
⑧ AV IN	Composite audio and video input.
⑨ COAX OUT	Coaxial output.
⑩ RS232	A serial connector used for data transfer.
⑪ AUDIO OUT	Audio output
⑫ LAN	LAN interface for connecting devices via RJ45 connector.
⑬ AC SWITCH	Power on/off switch
⑭ AC IN	Input for alternating current; power supply.

## 4. Wireless remote control

### 1) Wireless remote control operating instructions



## Description of the operation of the wireless remote control buttons

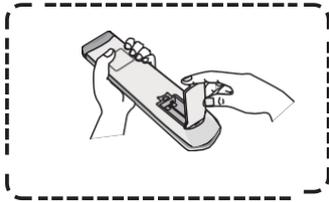
- 1  : Turn the screen power on and off. Mute/enable sound.
- 2  : Windows function key for internal PC.
- 3  : Space bar for programs running on the internal PC. Window switch for programs running on the internal PC.
- 4 Space : Key to close the window of programs running on the internal PC.
- 5 Alt+Tab : Number entry keys for TV. Display information about the current signal source.
- 6 Alt+F4 : Return to the previous TV channel. Source selection key.
- 7  : Key to turn on the Android main screen. Display menu, select source.
- 8 Display: locking and unlocking the buttons on the monitor and touch screen housing
- 9  : locking and unlocking the buttons on the monitor housing locking and unlocking touch
- 10 Input: stopping (freezing) the image
- 11 Home: Blank screen key. Backspace
- 12 Menu: function key. Directional key, up.
- 13 red: 14 green: Directional key, left.
- 15 yellow: Directional key, right.
- 16 blue: Directional key, bottom.
- 17  : Enter key, status selection.
- 18  : Start the software for handwriting. Return key.
- 19  : PageUp key for the internal computer.
- 20  : PageDn key for the internal computer. Changing channels.
- 21  : Volume modification. F1-F12
- 22  : function keys.
- 23 Enter: Start the software for handwriting. Return key.
- 24  : PageUp key for the internal computer.
- 25 Back: PageDn key for the internal computer. Changing channels.
- 26 PgUp: Volume modification. F1-F12
- 27 PgDn: function keys.
- 28 CH.+ \N-: 29 VOL+ \N-: 30 F1-F12:

**NOTE:** If the monitor does not have a built-in computer, the keys provided for him will not work.

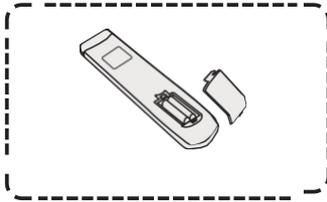
## 2) Instructions for using the wireless remote control

Battery installation:

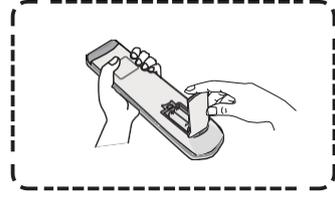
1. Remove the flap from the underside of the remote control.
2. Then insert two AAA batteries, with the correct setting: + batteries to + on the remote control, - to -. Do not mix batteries.
3. Finally, put the flip-flop in its place.



(1)

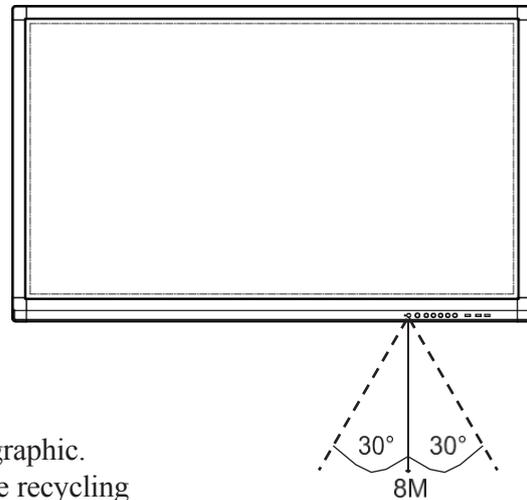


(2)



(3)

Pilot area

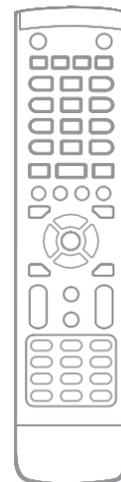


The range of the remote control is shown in the graphic.  
Please dispose of used batteries in the appropriate recycling container.

### NOTE!

Using unsuitable batteries risks explosion.

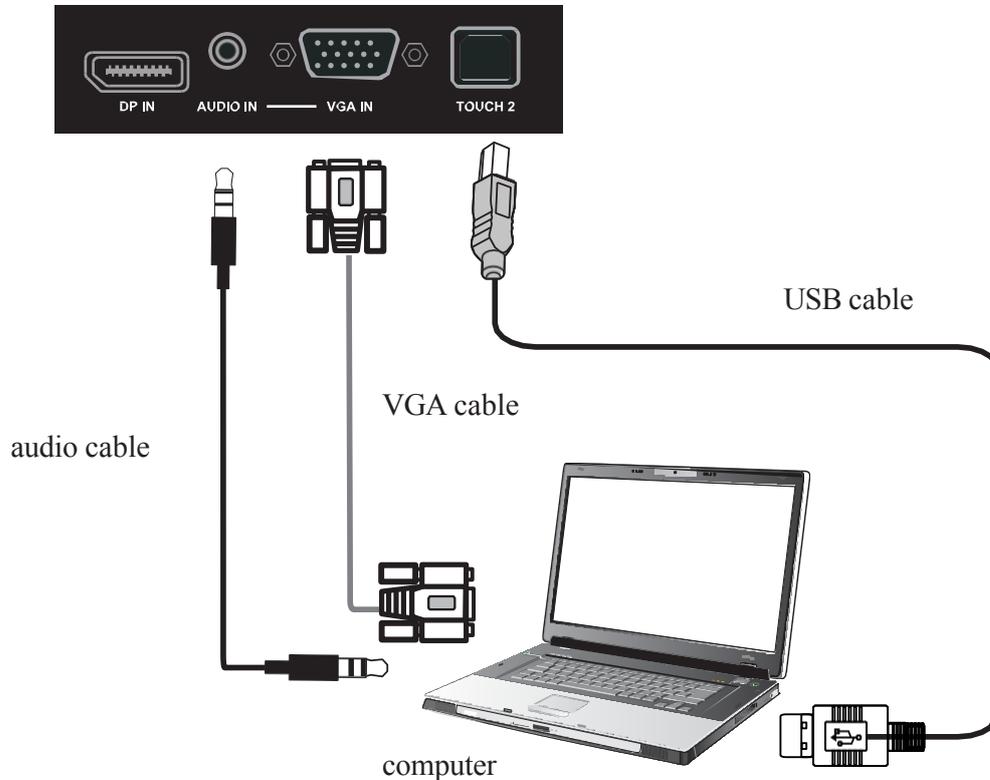
Dispose of used batteries according to instructions.



# Connection and settings

For safety reasons: please do not connect the power supply before setting up the external device.

## 1. Connecting an external computer and touch function



- 1) Connect the VGA cable (15 pins) to the VGA connector and the external computer. Connect a 3.5mm minijack cable to the computer and audio input on the monitor. Alternatively, you can use the HDMI connector.
- 2) Connect the USB cable to the external computer and the terminal on the monitor.
- 3) Connect the power cable.
- 4) Turn on the external computer (set the touch driver).
- 5) Press  $\odot$  to turn on the power.
- 6) Press INPUT to designate the appropriate connector as the image source.



### NOTES:

The suggested resolution of the external computer is 1920 x 1080. The device can be connected to an external computer via an HDMI cable.

### Suggested computer specifications:

2 GHz processor, 1GB RAM

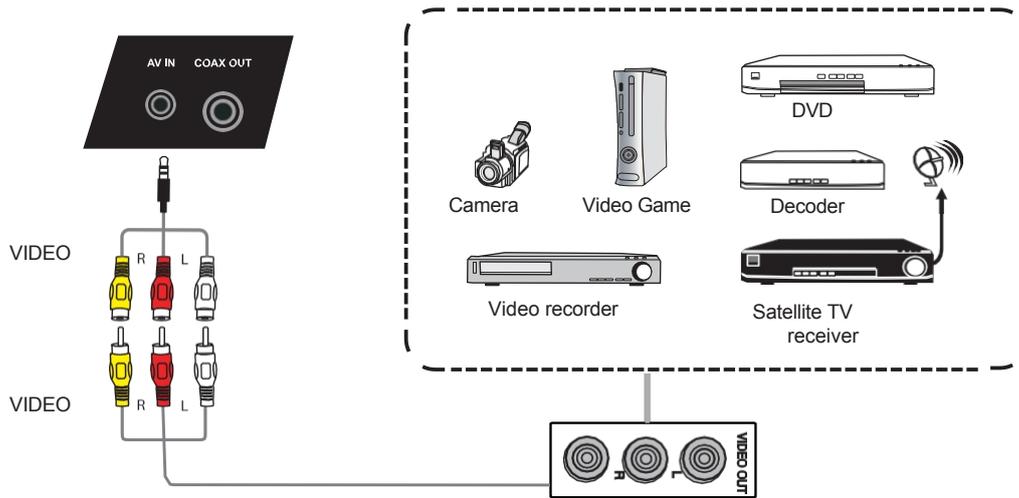
1GB of available hard disk space

Connectors:  
VGA, HDMI, AUDIO, USB

A graphics card that displays more than 256 colors

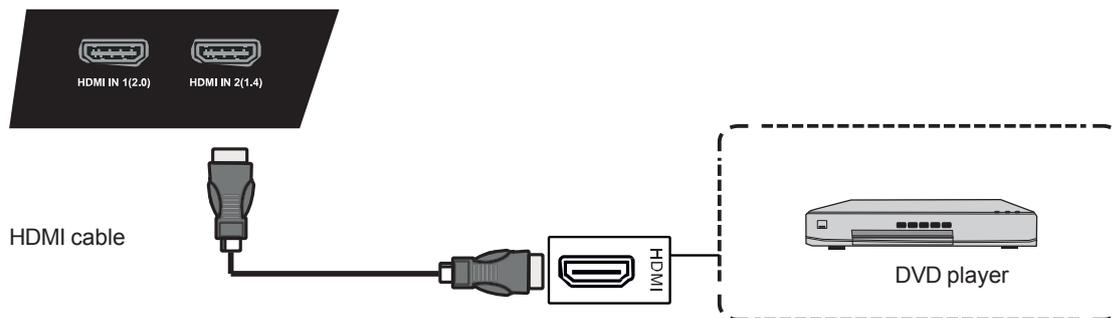
Supported resolutions: 800x600, 1024x768, 1920x1080

## 2. Connector AV



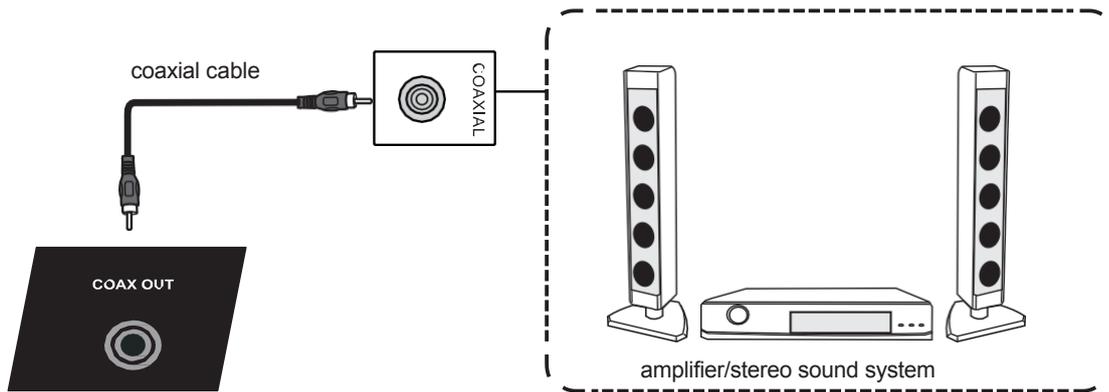
- 1) Connect the AV cable to the AV-OUT port on the external device (yellow - video, red - audio-r, white - audio-l).
- 2) Connect the power cord and turn on the device.
- 3) Press  $\odot$  to turn on the power.
- 4) Press INPUT to designate the CVBS port as the video source.

## 3. Connector HDMI



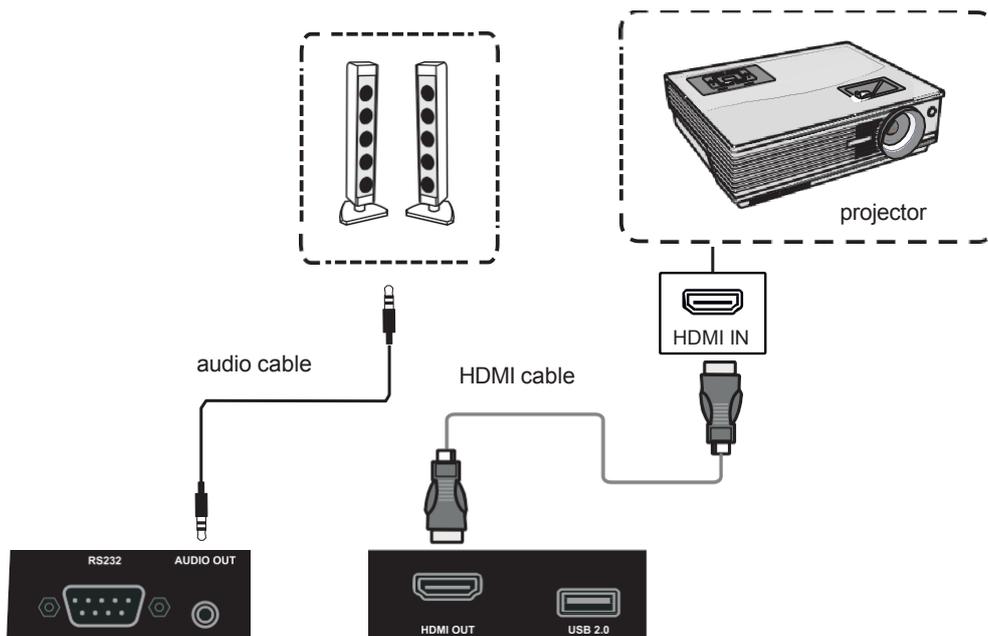
- 1) Connect the HDMI cable to the HDMI port on the external device.
- 2) Connect the power cord and turn on the device.
- 3) Press  $\odot$  to turn on the power.
- 4) Press INPUT to designate the HDMI port as the video source.

## 4. Connector coaxial



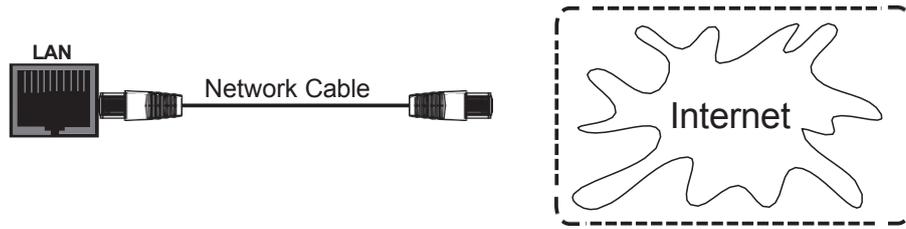
- 1) Connect the coaxial cable to the input port of the external device.
- 2) Connect the power cord and turn on the device.
- 3) Press  $\odot$  to turn on the power.

## 5. Connector VGA

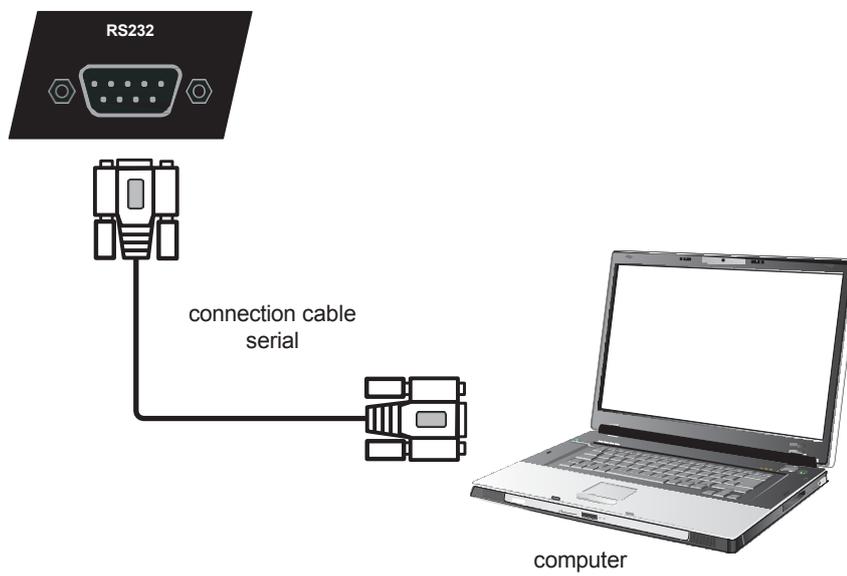


- 1) Use a VGA cable to connect the projection device to the VGA OUT connector. Connect the sound system with an audio cable to the headphone output.
- 2) Connect the power cord and turn on the device.
- 3) Press  $\odot$  to turn on the power.
- 4) Press INPUT to designate the VGA port as the image source.

## 6. Connector LAN



## 7. Connector RS232



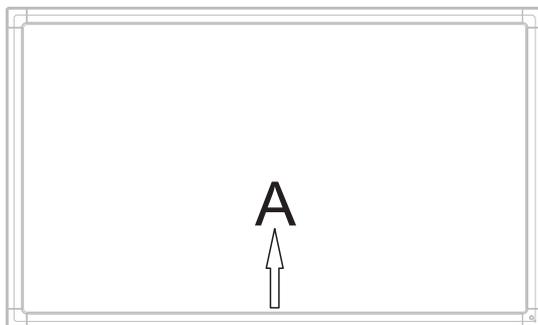
When the monitor is connected to an external computer using a serial cable, the following screen functions can be controlled from the computer: turning the monitor on/off, adjusting the volume, etc.

# Support menu

## Touch menu operation

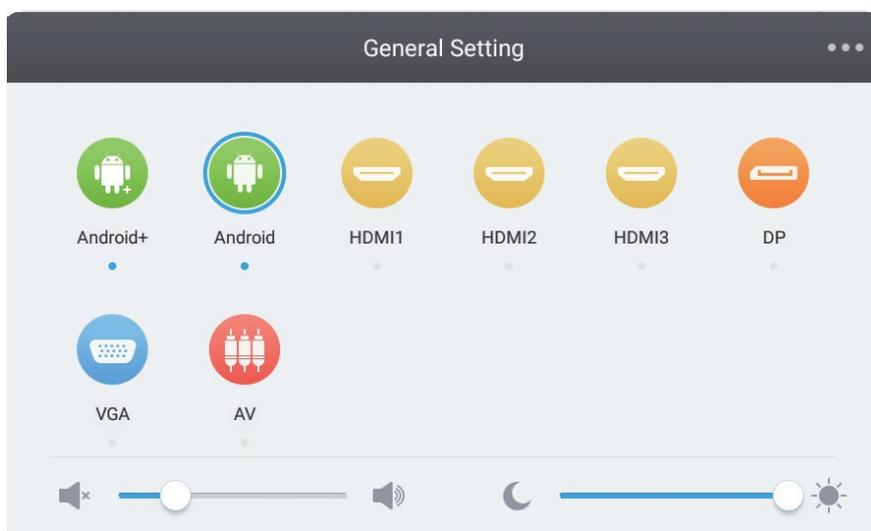
### Calling method

Swipe up on the screen with your finger or pointer, starting from the center of the screen, just above the bottom frame.



## Settings menu

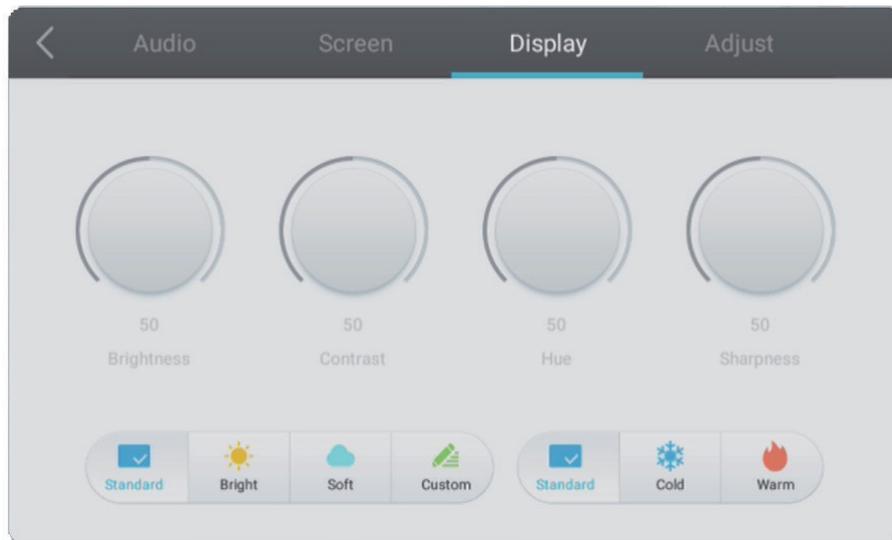
### Input settings



- Press INPUT on the wireless remote control or on the touch-call OSD menu to call up the input setting menu.
- Use the ▼/▲/ ◀/▶ keys on the remote control to select the desired picture source.
- Press "Enter" on the wireless remote control or directly tap the desired power source on the screen.
- Press the return key on the wireless remote control or tap the blank space on the screen next to the menu to exit it.

NOTE: The PC channel will be displayed only when the built-in computer is connected.

## Brightness settings



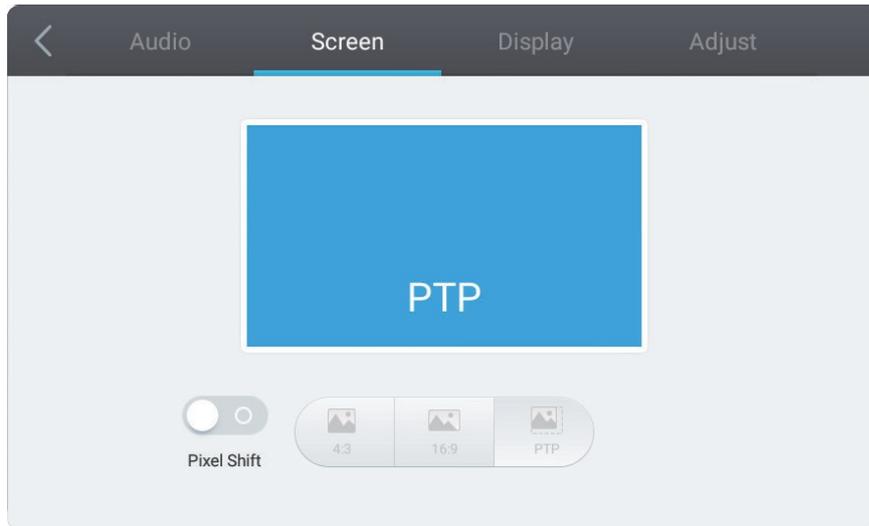
- Press INPUT on the wireless remote control or on the touch-call OSD menu to call up the input setting menu.
- Use the ► key on the remote control or tap the corresponding icon on the screen to select the brightness setting menu.
- Press "Enter" on the wireless remote control or directly tap the desired power source on the screen.
- Press the return key on the wireless remote control or tap the blank space on the screen next to the menu to exit it.

## Sound settings



- Press INPUT on the wireless remote control or on the touch-call OSD menu to call up the input setting menu.
- Use the ► key on the remote control or tap the corresponding icon on the screen to select the volume setting menu.
- Press ◀/▶ on the wireless remote control or directly drag the bar on the volume bar to adjust it.
- Press the return key on the wireless remote control or tap the blank space on the screen next to the menu to exit it.

## Image settings



During an active connection (other than with Android):

- Press INPUT on the wireless remote control or use the touch method to call up the menu.
- Use the ► key on the remote control or tap "⋮" on the screen to enable the advanced settings window.
- Use the ▼/▲/◀/▶ keys on the remote control to select and adjust the desired option.
- Press the return key on the wireless remote control or touch the front panel of the monitor to exit the menu.

Note: some options cannot be modified for some channels.

# Troubleshooting

## The device is not working properly

Remote control doesn't work	<ol style="list-style-type: none"> <li>1. Check that the space between the remote control and the TV receiver is not occupied by an object.</li> <li>2. Check that the batteries in the remote control are inserted correctly.</li> <li>3. Check that the batteries in the remote control are in working order.</li> </ol>
The device shuts down automatically	<ol style="list-style-type: none"> <li>1. Check the sleep mode settings.</li> <li>2. Check for power supply problems.</li> <li>3. Check that the automatic shutdown mode is not set.</li> </ol>

## PC mode

No signal	<ol style="list-style-type: none"> <li>1. Check the display settings.</li> <li>2. Check your resolution settings.</li> <li>3. Adjust Hs and Vs (synchronization) in the menu.</li> </ol>
Background interference	<ol style="list-style-type: none"> <li>1. Activate the auto adjust option (auto adjust).</li> <li>2. Set the clock and phase.</li> </ol>
Distorted colors	<ol style="list-style-type: none"> <li>1. Check the VGA cable.</li> <li>2. Set the color intensity, brightness, and contrast.</li> </ol>
Unsupported image format	<ol style="list-style-type: none"> <li>1. Activate the auto adjust option (auto adjust).</li> <li>2. Set the clock and phase.</li> </ol>

## Touch function

Touch function does not work	<ol style="list-style-type: none"> <li>1. Check that the drivers are installed correctly.</li> <li>2. Reinstall the driver (removing it beforehand).</li> </ol>
Function touch function is locked	<ol style="list-style-type: none"> <li>1. Check the touch function settings and calibrate them.</li> <li>2. Reinstall the driver.</li> <li>3. Check that the pen works properly.</li> </ol>

## Image does not display correctly

No picture or sound	<ol style="list-style-type: none"> <li>1. Check the status of the power supply (POWER).</li> <li>2. Check the cable through which the signal is transmitted.</li> <li>3. Check the built-in computer.</li> </ol>
Image tremor	<ol style="list-style-type: none"> <li>1. Check the cable through which the signal is transmitted.</li> <li>2. Check for interference from other electronic devices.</li> </ol>
Image is of low quality	<ol style="list-style-type: none"> <li>1. Set the color intensity, brightness, and contrast.</li> <li>2. Check the cable through which the signal is sent.</li> </ol>

## Sound does not work properly

No sound	<ol style="list-style-type: none"> <li>1. Check that the sound is not muted.</li> <li>2. Adjust the volume level.</li> <li>3. Check the sound cable.</li> </ol>
Only one speaker works	<ol style="list-style-type: none"> <li>1. In the menu, adjust the volume balance.</li> <li>2. Check the settings in your computer's sound control panel.</li> <li>3. Check the sound cable.</li> </ol>

# Maintenance and cleaning

Please stick to the following tips to maintain maximum monitor performance.

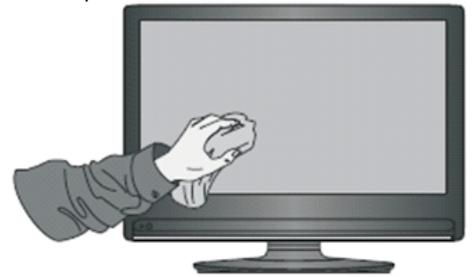
## Cleaning

Unplug the device from the outlet before cleaning.

Use only a soft, slightly damp cloth to clean the surface.

Do not clean the screen with chemical cleaners.

Do not directly apply cleaning agents to the surface of the device.



## If the monitor will not be used for a long time

In the above case, unplug the device from the power supply to prevent possible overvoltage generated during a storm.