BenQ Education

BenQ Board

Interactive Flat Panel

RP6504/RP7504/RP8604

User Manual

V 1.2

BenQ

Copyright and disclaimer

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Product Support

This document aims to provide the most updated and accurate information to customers, and thus all contents may be modified from time to time without prior notice. Please visit the website for the latest version of this document and other product information. Available files vary by model.

- Make sure your computer is connected to the Internet.
- Visit the local website from www.BenQ.com. The website layout and content may vary by region/country.
- User manual and related document: www.BenQ.com > Business > SUPPORT > Downloads > model name > User Manual
- (EU only) Dismantled information: Available on the user manual download page. This document is provided based on Regulation (EU) 2019/2021 to repair or recycle your product. Always contact the local customer service for servicing within the warranty period. If you wish to repair an out-of-warranty product, you are recommended to go to a qualified service personnel and obtain repair parts from BenQ to ensure compatibility. Do not disassemble the product unless you are aware of the consequences. If you cannot find the dismantled information on your product, contact the local customer service for assistance.

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Safety warnings and precautions

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

THIS EQUIPMENT MUST BE GROUNDED

To ensure safe operation, the three-pin plug must be inserted only into a standard three-pin power outlet which is effectively grounded through normal household wiring. Extension cords used with the equipment must have three cores and be correctly wired to provide connection to the ground. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power outlet is grounded or that the installation is completely safe. For your safety, if you are in any doubt about the effective grounding of the power outlet, please consult a qualified electrician.

The mains plug of the power supply cord shall remain readily operable. The AC receptacle (mains socket outlet) shall be installed near the equipment and shall be easily accessible. To completely disconnect this equipment from the AC mains, disconnect the power cord plug from the AC receptacle.

- Do not place this display on an uneven, sloping or unstable surface (such as a trolley) where it may fall and cause damage to itself or others.
- Do not place this display near water, like a spa or pool, or in a position which will allow the splashing or spraying of water onto the display, like in front of an open window where rain water may enter.
- Do not install this display in a confined space without proper ventilation and air circulation, such as in a closed cabinet. Allow proper space around the display for dissipating heat inside. Do not block any openings and vents on the display. Overheating may result in hazards and electric shock.
- Installation of this display should only be performed by a qualified technician. Failure to install this display properly may cause injuries and damages to the personnels and the display itself. Check the installation regularly and maintain the display periodically to ensure the best working condition.
- Use only the accessories approved or recommended by the manufacturer to mount this display. Using wrong or unsuitable accessories may cause the display to fall and result in serious personal injuries. Make sure that the surface and fixing points are strong enough to sustain the weight of the display.
- To reduce the risk of electric shock, do not remove covers. No user serviceable parts inside. Refer servicing to qualified service personnel.
- To prevent personal injuries, mounting the display or installing desktop stands is required before use.

Important safety instructions

1. Do not use this apparatus near water.
2. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
3. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
4. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
5. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
6. Only use attachments/accessories specified by the manufacturer.
7. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over. Unplug this apparatus during lightning storms or when unused for long periods of time.

8. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Notes on this display

- To prevent the risk of physical injuries, do not attempt to lift the display alone.
- Make sure you have four or more people available to help lift or a flat cart to transport the display to its final location.
- Keep the display horizontal as much as possible.
- Clear a floor space before unpacking.

Notes on the LCD panel of this display

- The Liquid Crystal Display (LCD) panel of this display has a very thin protective layer of glass which is liable to marking or scratching, and cracking if struck or pressured. The liquid crystal substrate is also liable to damage under excessive force or extreme temperatures. Please handle with care.
- The response time and brightness of the LCD panel may vary with the ambient temperature.
- Avoid placing the display in direct sun or where direct sun or spot lighting will shine onto the LCD panel, as the heat may damage the panel and the external casing of the display, and the bright light will make viewing the display more difficult than necessary.
- The LCD panel consists of individual pixels to display images and is manufactured according to the design specifications. While 99.9% of these pixels work normally, 0.01% of the pixels may remain constantly lit (in red, blue or green) or unlit. This is a technical limitation of the LCD technology and is not a defect.
- LCD screens, like plasma (PDP) and conventional CRT (Cathode Ray Tube) screens, are also susceptible to 'screen burn-in' or 'image retention' which can be found on the screen as visible fixed lines and shades. To avoid such damage to the screen, avoid displaying still images (like On-Screen Display menus, TV station logos, fixed/inactive text or icons) for more than 30 minutes. Change the aspect ratio from time to time. Fill the entire screen with the image and eliminate the black bars whenever possible. Avoid displaying images in 16:9 aspect ratio over a long period of time, otherwise there may be visible burn marks on the screen as two vertical lines.

- Note: Under certain circumstances, condensation may occur on the inner side of the cover glass, it's a natural phenomenon and will not affect the operation of the display. This condensation will usually disappear after around 2 hours of normal operation.
- This product does not offer image retention function. For more information, please refer to installation guide. If a still image is required for a display, it is recommended to enable Pixel shift.
- This product does not support portrait use; portrait use may cause display damage. BenQ warranty will not cover faulty usage.

Notes on cleaning the display

Please clean the frame when there is sign of malfunction on the touch screen.

1. Before you clean the screen, make sure the display is turned off, and unplug the power cord.
2. Remove dust or dirt from the screen with a dry cleaning cloth. Make sure to use minimal force, and don't press hard on the screen.
   - Never use paper towels or anything that could leave streaks or lint on the screen.
3. Moisten a clean soft, lint-free cloth with some cleaning alcohol such as 70% isopropyl. Gently go over the entire screen and wipe it down.
   - Never use hazardous chemicals or ammonia-based cleaners
   - Never fully soak the microfiber cloths in liquid.
   - Never spray liquids directly onto the screen.

Safety notice for remote control

- Do not put the remote control in the direct heat, humidity, and avoid fire.
- Do not drop the remote control.
- Do not expose the remote control to water or moisture. Failure to do so could result in malfunction.
- Confirm there is no object between the remote control and the remote sensor of the product.
- When the remote control will not be used for an extended period, remove the batteries.

Battery safety notice

The use of the wrong type of batteries may cause chemical leaks or explosion. Please note the following:

- Always ensure that the batteries are inserted with the positive and negative terminals in the correct direction as shown in the battery compartment.
- Different types of batteries have different characteristics. Do not mix different types.
- Do not mix old and new batteries. Mixing old and new batteries will shorten battery life or cause chemical leaks from the old batteries.
- When batteries fail to function, replace them immediately.
- Chemicals which leak from batteries may cause skin irritation. If any chemical matter seeps out of the batteries, wipe it up immediately using a dry cloth, and replace the batteries as soon as possible.
- Due to varying storage conditions, the battery life for the batteries included with your product may be shortened. Replace them within 3 months or as soon as you can after initial use.
- There may be local restrictions on the disposal or recycling of batteries. Consult your local regulations or waste disposal provider.

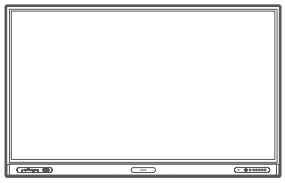
BenQ ecoFACTS

BenQ has been dedicated to the design and development of greener product as part of its aspiration to realize the ideal of the "Bringing Enjoyment 'N Quality to Life" corporate vision with the ultimate goal to achieve a low-carbon society. Besides meeting international regulatory requirement and standards pertaining to environmental management, BenQ has spared no

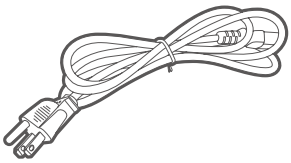
efforts in pushing our initiatives further to incorporate life cycle design in the aspects of material selection, manufacturing, packaging, transportation, using and disposal of the products. BenQ ecoFACTS label lists key eco-friendly design highlights of each product, hoping to ensure that consumers make informed green choices at purchase. Check out BenQ's CSR Website at http://csr.BenQ.com/ for more details on BenQ's environmental commitments and achievements.

Package contents

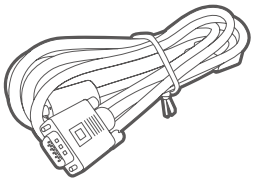
Open the sales package and check the contents. If any item is missing or damaged, please contact your dealer immediately.



LCD display

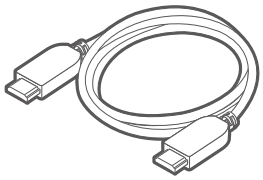


Power cord (by region)

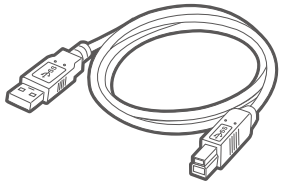


VGA cable x1

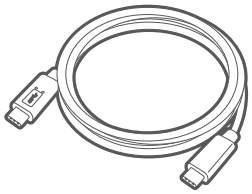
2.4 GHz remote control



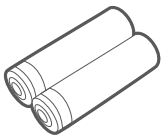
HDMI cable x1



Touch USB cable x1

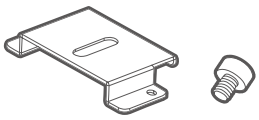


USB Type-C cable x1

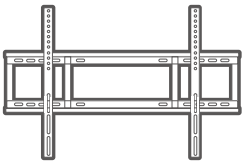


AAA battery x2 *

Touch pen (with NFC tag) x2

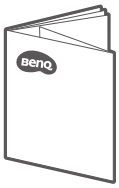


Camera mounting kit



Wall mount (with installation screws)

Wireless USB Adapter (WD02AT) *



User documents
(Quick start guide, wall mount installation guide, regulation sheets)

Board eraser

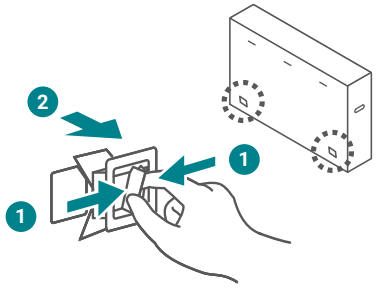
- *: Availability may vary. Purchase separately if the accessories are not included in the package.
- The type of power cord supplied may differ from that illustrated depending on your region of purchase.
- Before discarding the package, check that you haven't left any accessories inside the box.
- Dispose of packaging materials wisely. You can recycle the cardboard carton. Consider storing the package (if possible) for future transport of the display.
- Do not leave plastic bags within reach of young children or babies.

Set up the display

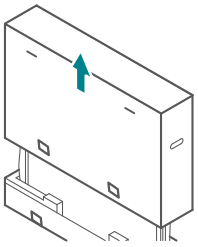
Please pay attention to the following notes during installation:
- Refer the installation to qualified technicians. Improper installation may cause the display to fall or malfunction. The manufacturer accepts no liability for installations not performed by a professional technician.
- Stability Hazard: The flat panel may fall, causing serious personal injury or death. To prevent injury, this flat panel must be securely attached to the wall in accordance with the installation instructions.

Unbox the display

1. Unfasten the clips in the front and in the back of the box. Pinch (1) and pull (2) to remove the clips.



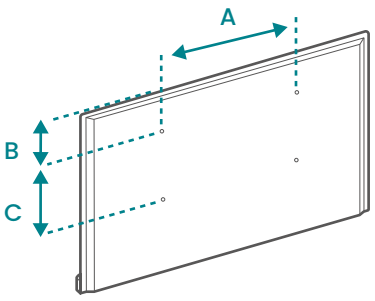
2. Use the side flaps to carefully lift the box off the BenQ Board.



Install the display on a wall

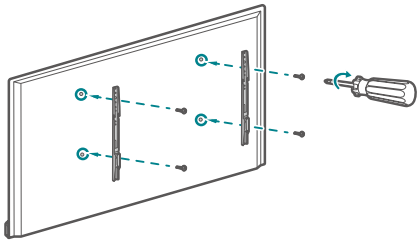
1. Identify the wall mounting screw holes on the back of the display.
   - Screw type: M8 x 25L
   - Quantity: 4

Dimension	65"	75"	86"
A	600 mm	800 mm	800 mm
B	244.5 mm	313.2 mm	282.2 mm
C	400 mm	400 mm	600 mm

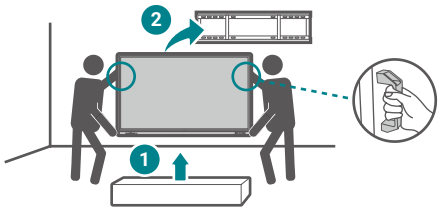


2. Align the holes of the brackets with those on the back of your display. Fasten the screws to lock the brackets in place.

   Adjust the height of the brackets accordingly based on your requirements.



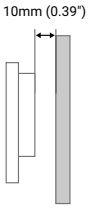
3. Lift the display out of the box base (1) and attach the display to the wall (2).



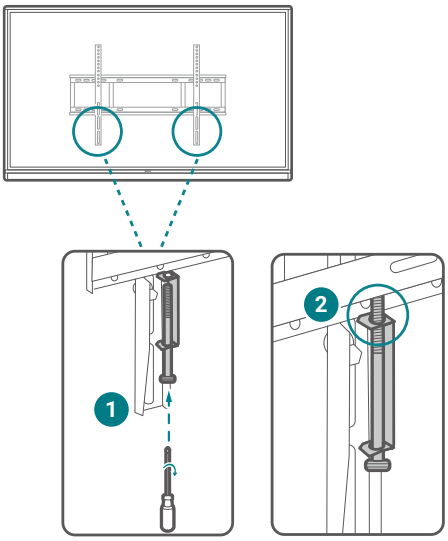
Hold the top handle of the display and place the other hand underneath the display when you lift and move the display.

This display should be installed by at least two adult persons. Attempting to install this display by only one person may result in danger and injuries.

To maintain proper ventilation, keep at least 10 mm of clear space from the back cover of the display to the wall.



4. Use the locking screws to secure the display to the wall plate (1). Tighten the screws until they contact the wall mount plate (2).



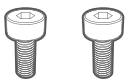
Install camera

Set up your webcam on the top of the display. Two installation methods are provided depends on the connection port of your webcam.

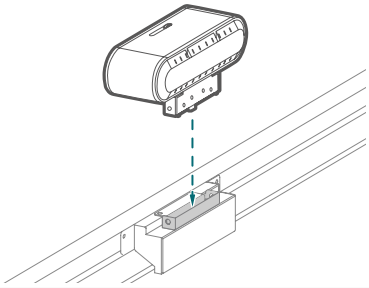
- For USB-C camera (DV01K)
- For USB-A camera (DVY32)

For USB-C camera (DV01K)

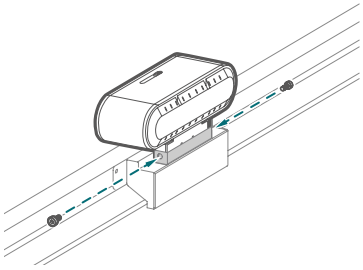
The mounting components you need:



M3 screw x 2



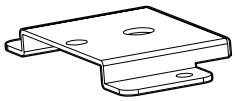
1. Connect your camera to the USB-C port on the top of the display.



2. Secure the camera with the provided screws.

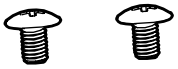
For USB-A camera (DVY32)

The mounting components you need:



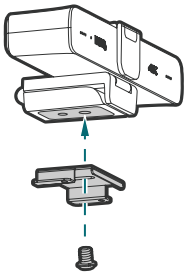
Mount

1/4" screw (8mm)

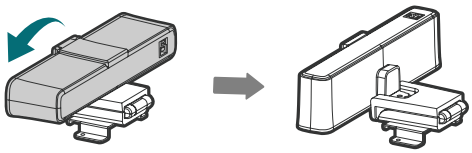


M3x5 mm screw x 2

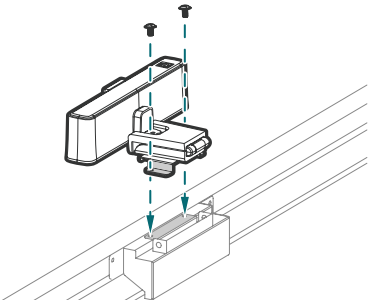
To install the camera mount:



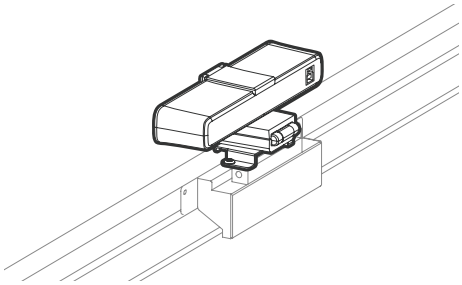
1. Place your camera onto the mount and secure the camera by screwing the 1/4" screw into the camera screw hole.



2. Tilt the camera downward.



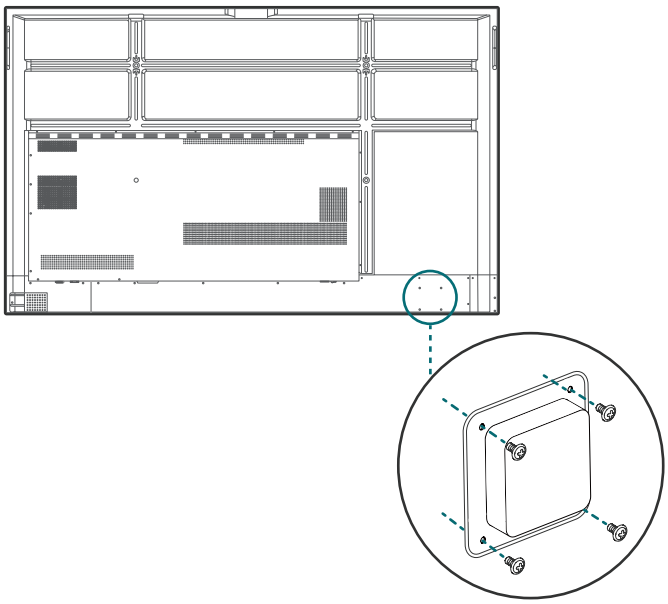
3. Install the mount with two M3x5mm screws on the top of the display.



4. Tilt the camera back.

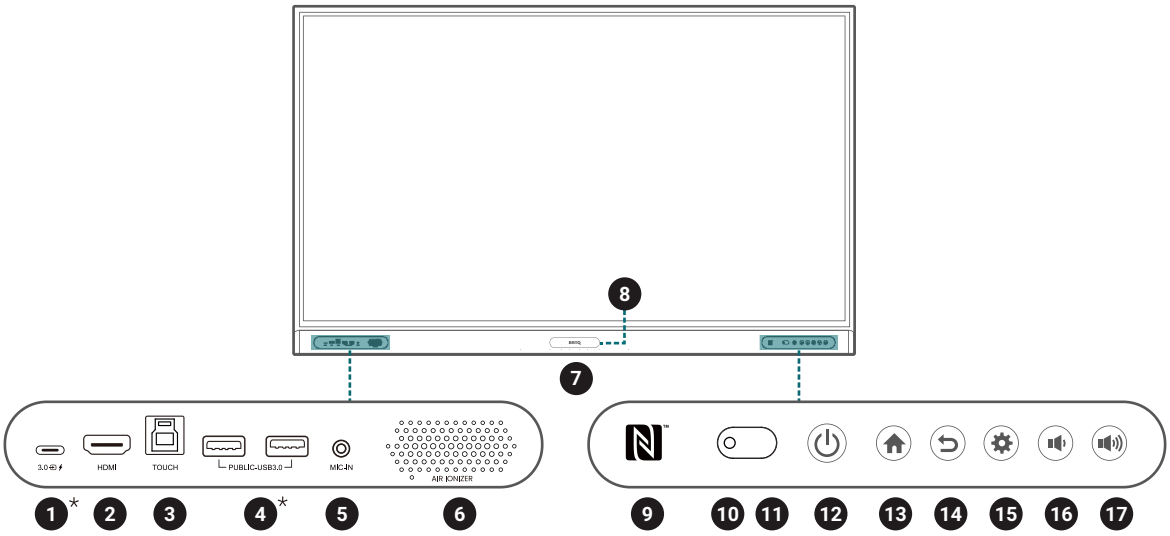
Install external PC

The back of the display has four screw holes at its bottom-left side with a dimension of VESA mount 75x75 mm. You can secure the PC onto the display with four screws (maximum torque: 4-5 kgf-cm).



Parts of the display and their functions

Front panel

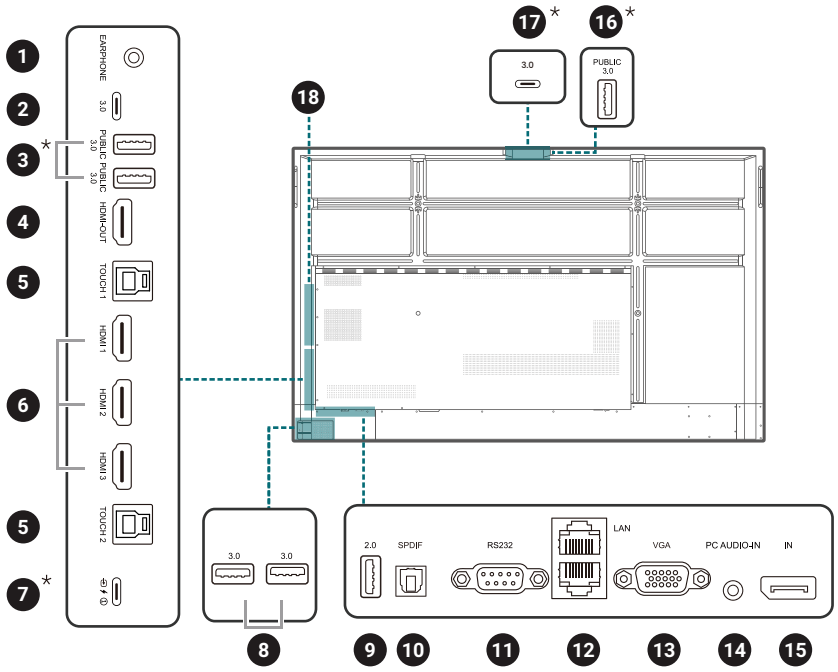


No.	Name	Description
1	**TYPE-C***	Connects to USB-C devices for power delivery and data transfer. Supports the transmission of video, audio, and touch function.
2	**HDMI**	Connects to video sources that support the HDMI interface.
3	**TOUCH**	Supports touch signal input from an external computer.
4	**PUBLIC 3.0***	Connects USB-A devices such as keyboards, mouse, and USB flash drives.
5	**MIC-IN**	Receives sound from a microphone via an audio cable. This port only supports 3.5 mm TRS connector (2 rings).
6	**Air ionizer**	Releases negative ions. See Air ionizer on page 33 for details
7	**Array microphones**	Receives and transmits sound from near the display.
8	**PIR sensor**	Triggers the air ionizer when detecting human body near the display.
9	**NFC sensor**	• Tap NFC card for AMS login. • Use touch pen to launch EZWrite. See Using touch pen to launch EZWrite on page 13 for details.
10	**Ambient light sensor**	Detects the ambient light around the display.
11	**IR signal receiver**	Receives infrared signals from remote control.
12	**Power**	• Tap to enter energy saving mode. • Press and hold for 4 seconds or more to power off.
13	**Home**	Returns to the main screen.
14	**Return**	Returns to the previous menu.
15	**Menu**	Enters the function menu.
16	**Volume down**	Decreases the volume.

No.	Name	Description
17	**Volume up**	Increases the volume.

Rear panel

See Connections on page 16 for details.



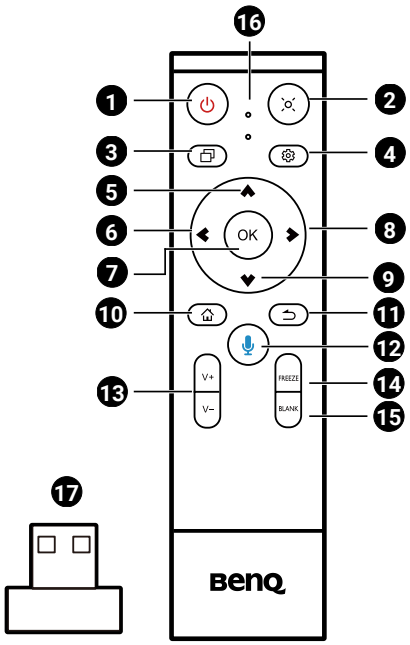
No.	Name	Description
1	**EARPHONE**	Connects to external speakers or earphones. This port does not support microphone function.
2	**TYPE-C**	Connects to USB-C devices for data transfer.
3	**PUBLIC 3.0***	Connects USB-A devices such as keyboards, mouse, and USB flash drives.
4	**HDMI-OUT**	Connects to display devices with an HDMI input.
5	**TOUCH 1 / TOUCH 2**	Supports touch signal input from an external computer.
6	**HDMI 1 / HDMI 2 / HDMI 3**	Connects to video sources that support the HDMI interface. Only **HDMI 1** supports HDMI ARC. Go to **Advanced settings** > **HDMI CEC** to enable the function.
7	**TYPE-C***	Connects to USB-C devices for power delivery and data transfer. Supports the transmission of video, audio, and touch function.
8	**USB 3.0**	Unscrew the USB cover to access the USB slot for the wireless USB adapter and the remote control USB receiver.
9	**USB 2.0**	Connects USB-A devices such as keyboards, mice, and USB flash drives.
10	**SPDIF**	Connects the SPDIF cable from external audio devices to the display for audio out.
11	**RS232**	Serial interface, used for mutual transfer of data between devices.

No.	Name	Description
12	**LAN**	Supports LAN In & Out, 10/100/1000 Mbps for Android system and OPS.
13	**VGA**	Receives video input from an external device (such as a computer).
14	**PC AUDIO-IN**	Receives audio input from an external device.
15	**DP IN**	Connects a video source to a display device.
16	**PUBLIC 3.0***	Connects to USB devices such as web cameras or USB flash drives. For port 16 & 17, use only one port at a time.
17	**TYPE-C***	
18	**OPS Slot**	Supports installation of a slot-in PC.

* With these smart ports, a laptop (connected to BenQ Board via USB Type-C or HDMI + Touch USB) can use the USB devices, speakers, and external cameras from BenQ Board to enhance the conference experience. Please note that the built-in array microphone can only be accessed by an OPS source.

- USB 2.0: 5V ⎓ 500mA / USB3.0: 5V ⎓ 900mA
- Rear Type-C (data transfer only): 5V ⎓ 0.9A
- Rear Type-C:
  - 5V ⎓ 3A=15W (with OPS)
  - 15V ⎓ 3A=45W (without OPS & turn on front 100W)
  - 20V ⎓ 3.25A=65W (without OPS & turn off front 100W)
- Front Type-C:
  - 5V ⎓ 3A=15W (without OPS)
  - 15V ⎓ 3A=45W (without OPS)
  - 20V ⎓ 3.25A=65W (with OPS; without OPS & turn off front 100W)
  - 20V ⎓ 5A=100W (without OPS & turn on front 100W)
- OPS= 18V ⎓ 3.5A; 65W
- ⎓ : Direct Current / DC
- ~ : Alternating Current /AC
- Turn on/off **Front USB-C 100W charging** from ⚙ **> Advanced**.
- The maximum length for the cables to be used with the USB slots are 5m (USB 2.0) and 3m (USB 3.0).
- RP04 has a limit to the number of USB ports you can connect to. Do not connect a USB hub to the display when all USB ports are occupied, as new devices may not be recognized by the system.

Remote control



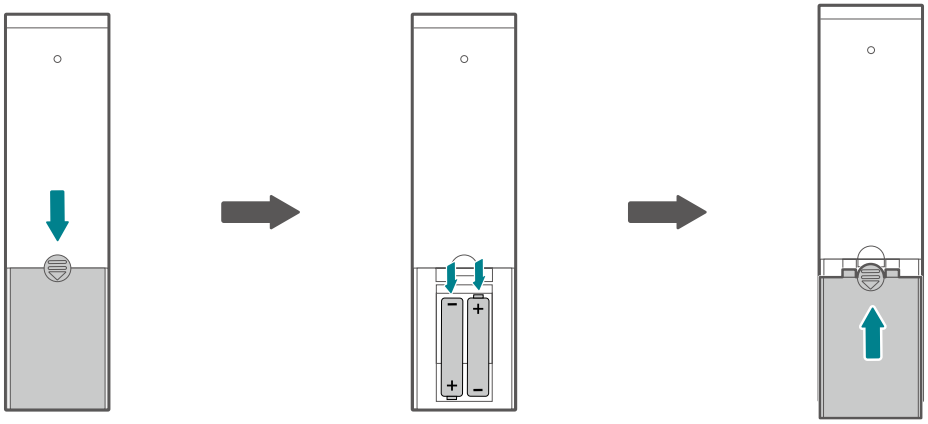
No.	Icon	Description
1		Turns the display on or off.
2		Pointer key. Press to activate the spotlight or pointer function and follow the instructions on the screen.
3		Press to view and switch between recent apps and input sources.
4		Press to open or close the menu.
5		Direction key. Press for upward selection.
6		Direction key. Press for left selection.
7	OK	Press to proceed
8		Direction key. Press for right selection.
9		Direction key. Press for downward selection.
10		Android system main screen button.
11		Return key
12		Press to activate Google Assistant. Say commands to control the BenQ Board.
13	V+ / V–	Volume up/down.
14	**FREEZE**	Freeze screen
15	**BLANK**	One key for blank screen. Go to > **Display** > **Advanced settings** > **Blank button on remote** to set up different blank mode.
16		Microphone
17		The USB receiver to pair with the remote control. See Use BenQ Board by remote control on page 14 for details.

Install remote control batteries

1. Open the remote control battery cover.
2. Insert the supplied batteries, ensuring the positive and negative ends are facing in the correct direction.

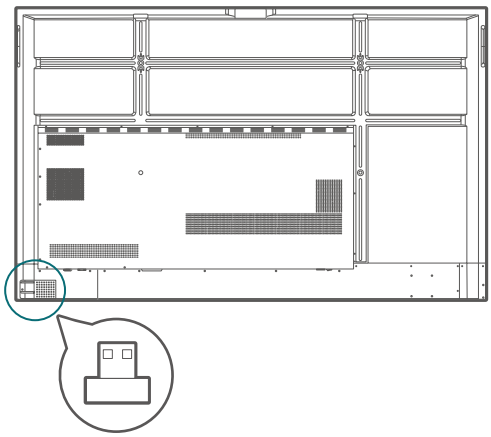
   The supplied batteries are provided for your convenience so that you can operate the display straight away. You should replace them as soon as possible.

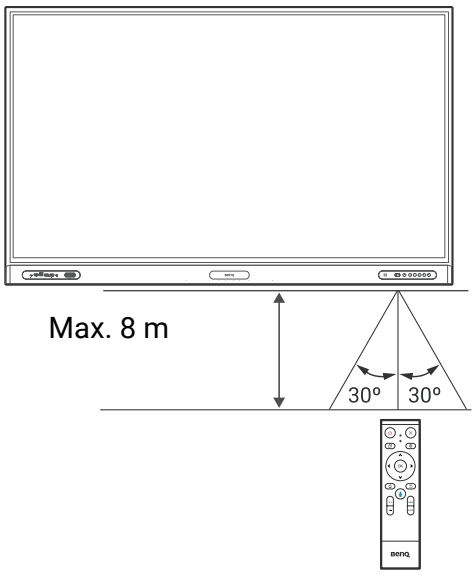
3. Put the cover back on.



Use BenQ Board by remote control

1. Insert the remote control USB receiver into the USB-A ports at the lower left corner on the rear side of the display.
2. Aim the remote control at the sensor at the display's bottom-right side within a distance of less than 8m, and a horizontal and vertical angle of less than 60 degrees.





- The remote control and the USB receiver have been paired by default.
- This remote control applies only to a specific model and operating systems. Contact your reseller if you have any question.

Pair the remote control and the USB receiver

If you are experiencing issues using the function key on the remote control, please follow the steps and pair again the remote control to resolve the issue:

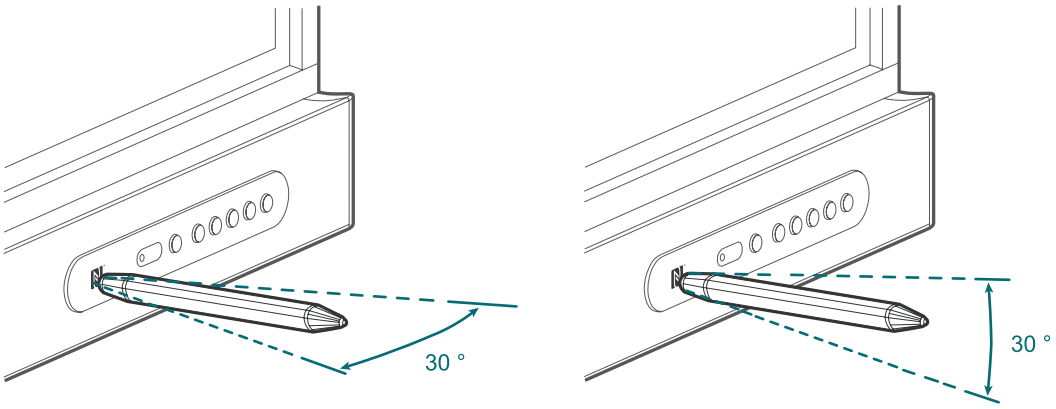
1. Insert the USB receiver to BenQ Board's USB port and place the remote control near it.
2. Press the V− and BLANK at the same time, and the indicator light will start flashing.
3. The pairing is completed once the indicator stops flashing.

Remote control usage tips

- Avoid getting the remote control wet or store it in humid environments (like bathrooms).
- If the display's remote control sensor window is exposed to direct sunlight or strong light, the remote control may not operate properly. In this situation, change the light source, readjust the angle of the display, or operate the remote control from a location closer to display's remote control sensor window.

Using touch pen to launch EZWrite

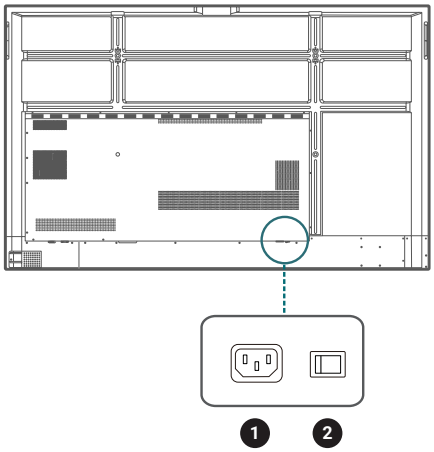
Tap the thick tip of the touch pen on the display's NFC sensor to launch EZWrite. Note that the horizontal and vertical angle should be less than 30 degrees.



Connections

Connect power

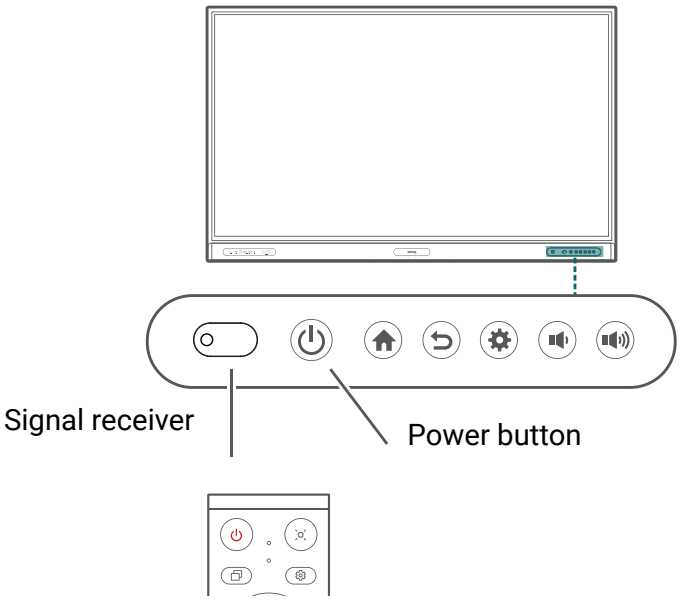
1. Plug one end of the power cord into the power jack on the display and the other end into an appropriate power outlet.
2. Set the power switch to ON (I). The system will enter standby mode.



- The supplied power cord is suitable for use with 110-240V AC power only.
- The power cord and outlet illustrated may differ from the ones used in your region.
- Only use an appropriate power cord for your region. Never use a power cord which appears damaged or frayed, or change the plug type on the power cord.
- Be aware of the power loading when you use extension cords or multiple outlet power boards.
- There are no user serviceable parts in this display. Never unscrew or remove any covers. There are dangerous voltages inside the display. Turn off the power and unplug the power cord if you intend to move the display.

Turn the display on or off

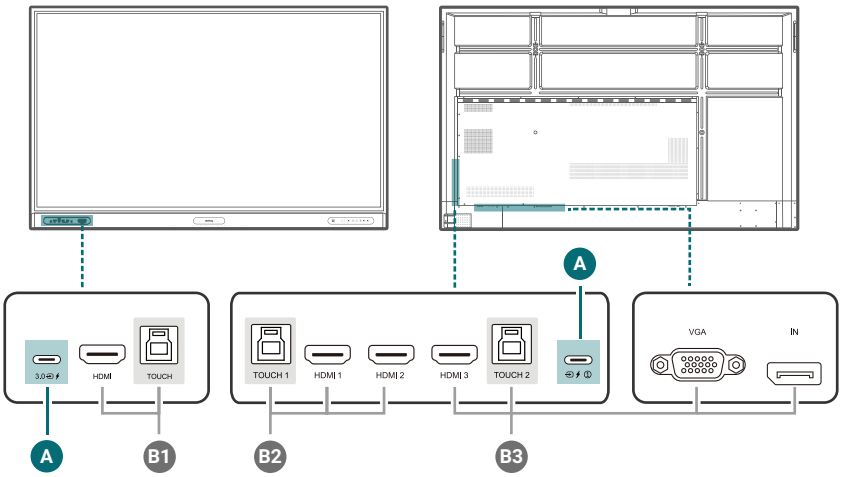
- To turn on the display, press the power button on the control panel or on the remote control.
- To turn off the display, press the power button on the control panel. The system will automatically enter standby mode.



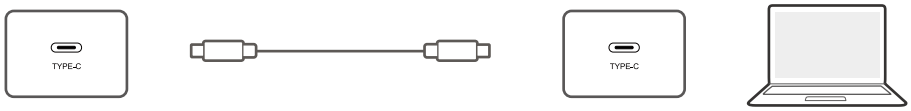
The display's standby mode still consumes power. To completely cut off power supply, set the power switch to OFF (O) and then disconnect the power cord from the power outlet.

Connect the touch module

The touch module of the display supports easy plug-and-play operation. There is no need to install additional drivers on the computer.
Try either method below to set up the video and touch input:

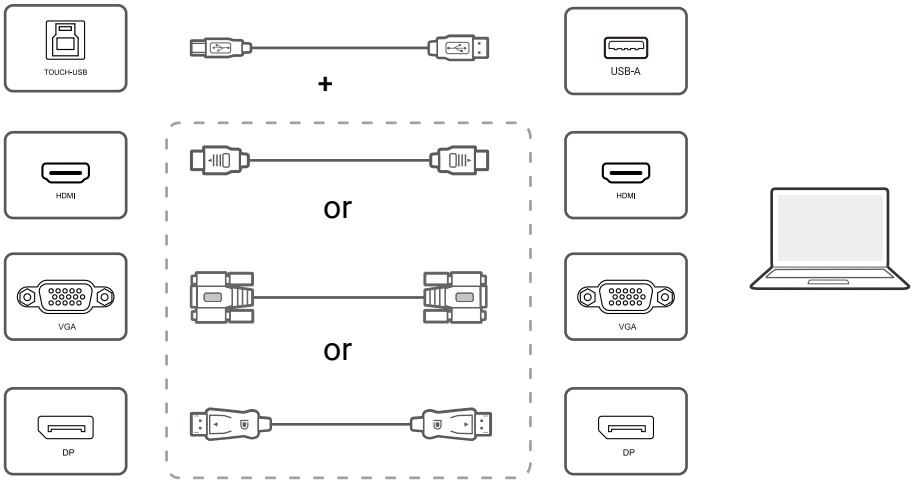


A. Connect the **TYPE-C** port on the display to a USB Type-C port on the computer using the supplied USB Type-C cable.



B. Connect a video cable (**HDMI**/**IN (DP)**/**VGA**) and the supplied touch USB cable from a computer to the corresponding ports of the display.

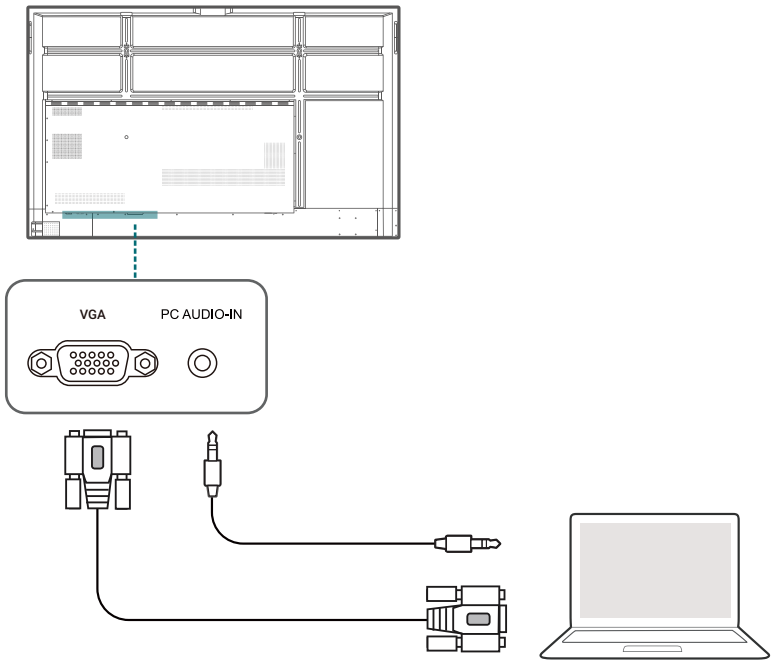
- **HDMI** must be used with the **TOUCH** at the front panel.
- **HDMI 1** or **HDMI 2** must be used with **TOUCH 1**.
- **HDMI 3**, **VGA** or **DP IN(DP)** must be used with **TOUCH 2.**



- Avoid blocking the touch screen frame (where sensors are located) when initiating the touch module.
- If any ghost image occurs, please try to un-plug and then re-plug all USB cables. If the failure image still exists, use another USB Type-B to Type-A cable.
- It is highly recommended that you connect the display to the PC or laptop directly. Please be noted that using a faceplate device or an extender may cause failures in touch operations since the display quality can be affected by many uncertainties such as cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

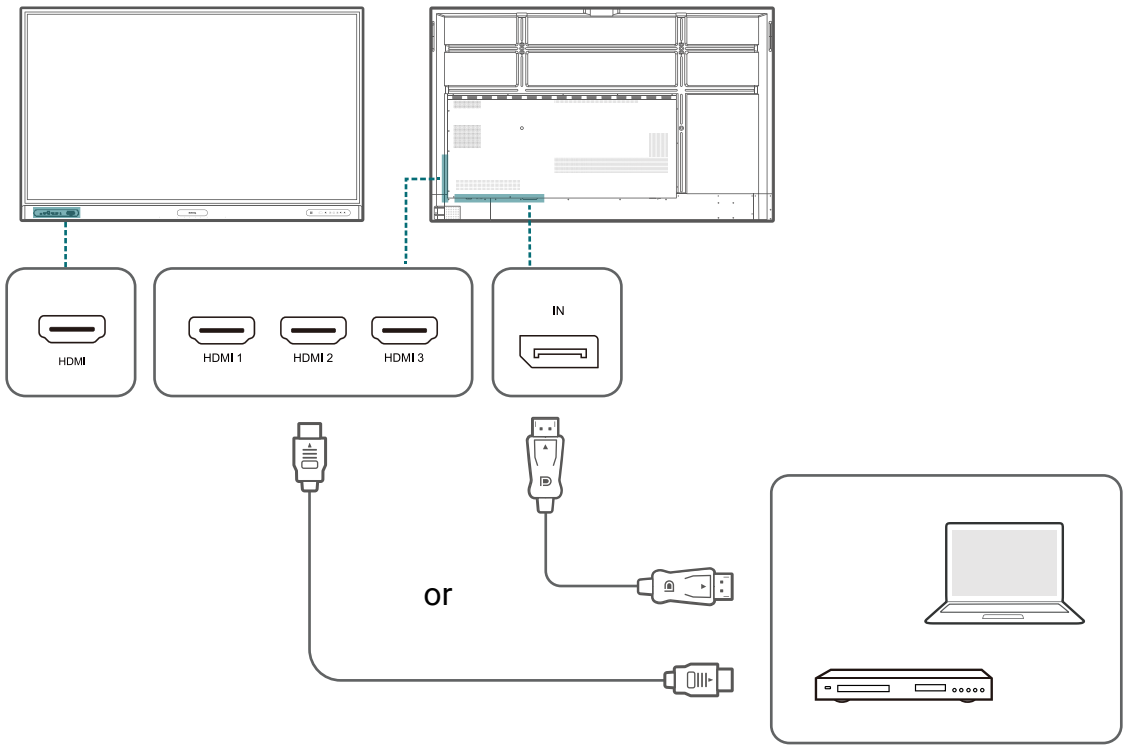
Connect the VGA input

1. Connect the **VGA** port on the display to the VGA output port on a computer using a D-Sub (15-pin) cable.
2. Connect the computer's audio output port to the **PC AUDIO-IN** jack on the display using a suitable audio cable.



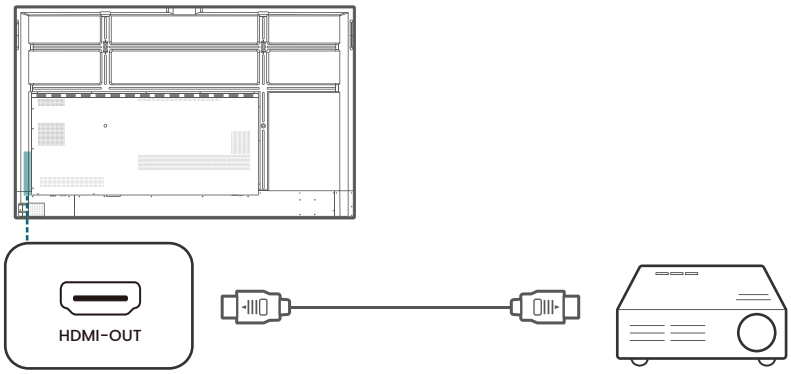
Connect the digital inputs

1. Connect the HDMI or DisplayPort output port of a computer or A/V device (such as a settop box or DVD player) to the **HDMI/HDMI 1/HDMI 2/HDMI 3/IN (DP)** input port on the display using an HDMI or DisplayPort cable.
2. To view video from this input, press ⚙ on the remote control to switch to the respective input source.



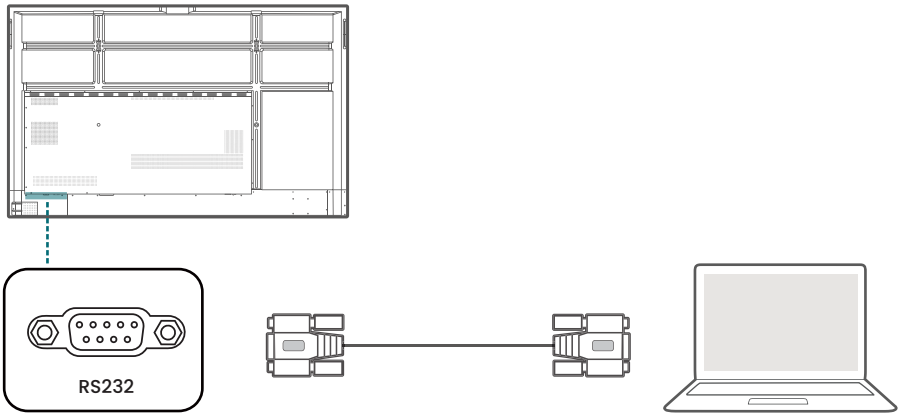
Connect the video output

Use an HDMI cable to connect the **HDMI-OUT** port to the respective input port on the device.



Connect to serial port

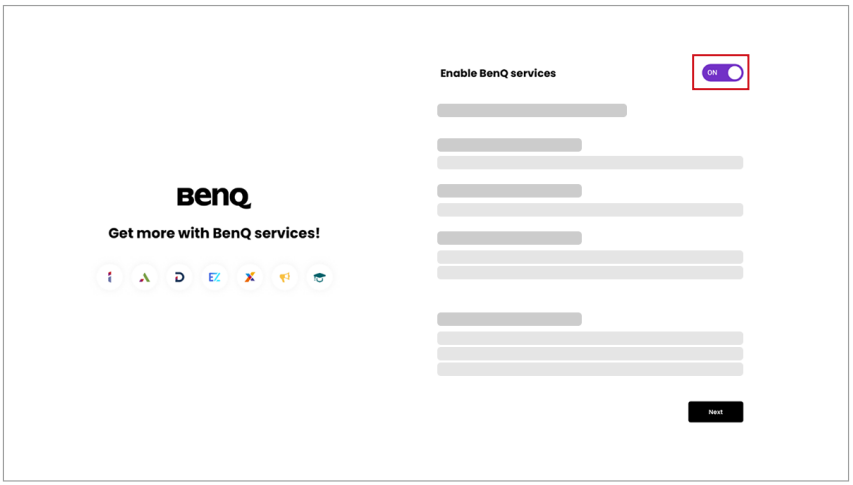
Directly connect a computer to the **RS232** port on the input/output terminals.



- The applicable cable is not supplied and should be purchased separately.
- This connection is applicable to straight-through RS-232C cable only.
- After using serial port line to connect central control equipment and machine, certain function of the machine can be controlled via central control equipment, such as: machine on/off, and adjustment of sound volume, etc.

Initial setup

1. Turn on the display. Wait for the display to boot up with the BenQ screen.
2. Follow the on-screen instructions to set up the language, date and time, and network. You can skip some of these steps and complete the setup later.
3. For copy data and set pin code section, select **Skip** to continue.
4. In BenQ service selection screen, set the toggle to **On**.

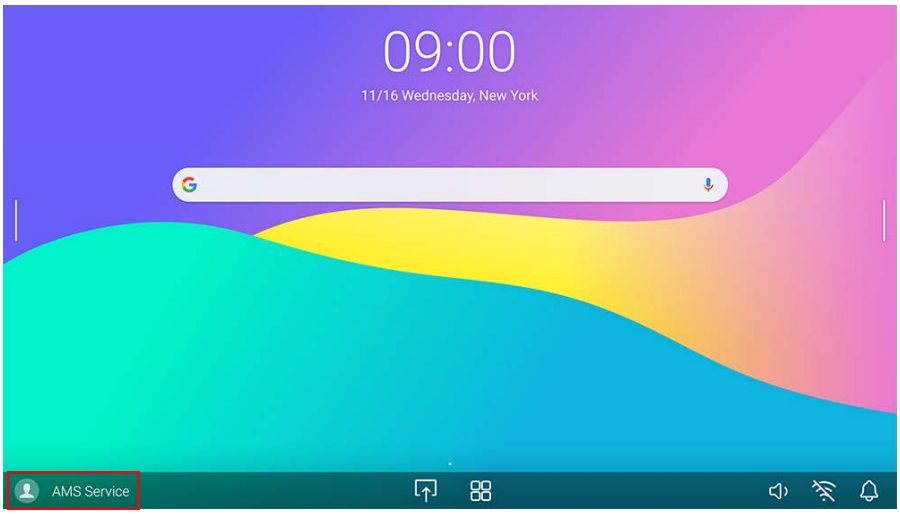


5. Select **Next** to continue. Your BenQ Board will restart.

Google has a default screen lock feature that locks the screen when the board is idle. To disable this function, tap **All apps** > **Settings** app. Go to **Security** > **Screen lock** and select **None**.

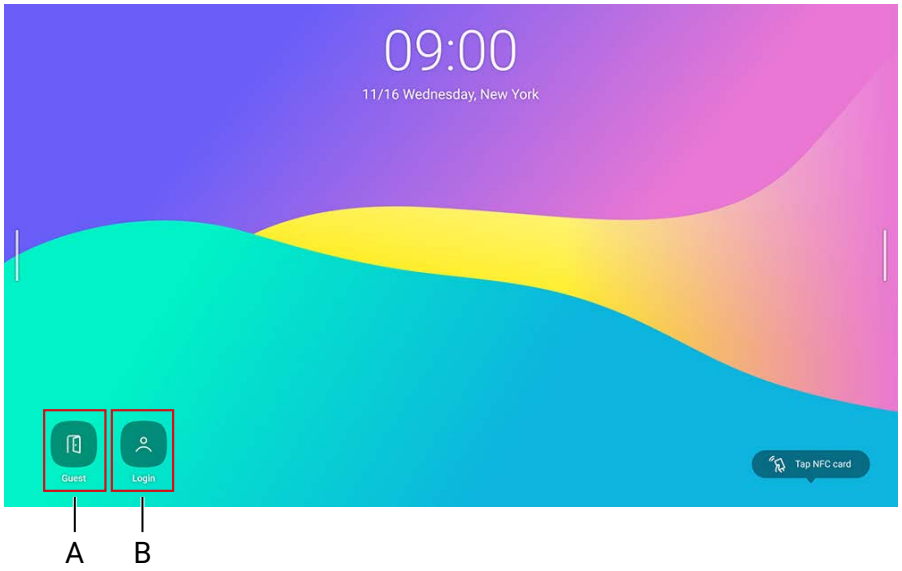
Enable AMS service

You may enable AMS service if account management is required. Select **AMS service** at the bottom left corner to activate BenQ AMS service.



Log in to BenQ Board

BenQ provides different login options for easier account management. Log in options are as below.



A. **Guest**

As a guest, you can access most of the basic functions. All data will be erased after logging out.

B. **User login**

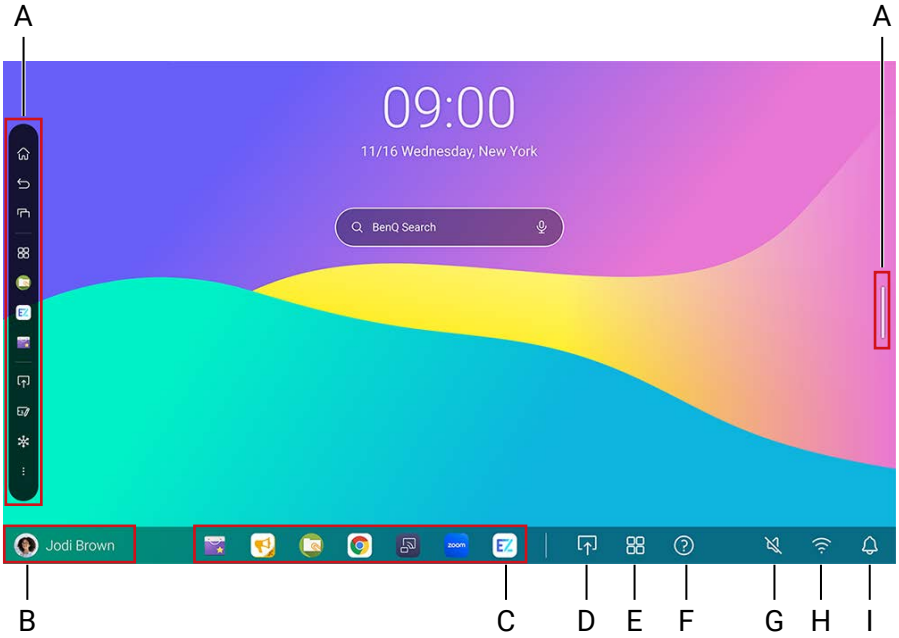
- As AMS admin, you have full access to the board.
- As AMS user, you can customize your working space and keep personal bookmarks, app shortcuts and wallpapers. All app data will be saved individually.

  * Each board stores up to 8 user information.

For more information and tutorial videos about the AMS service please visit BenQ website.

BenQ service interface

After signing in, users may access functions as below.



A. **Side tool bar** (see page 22)

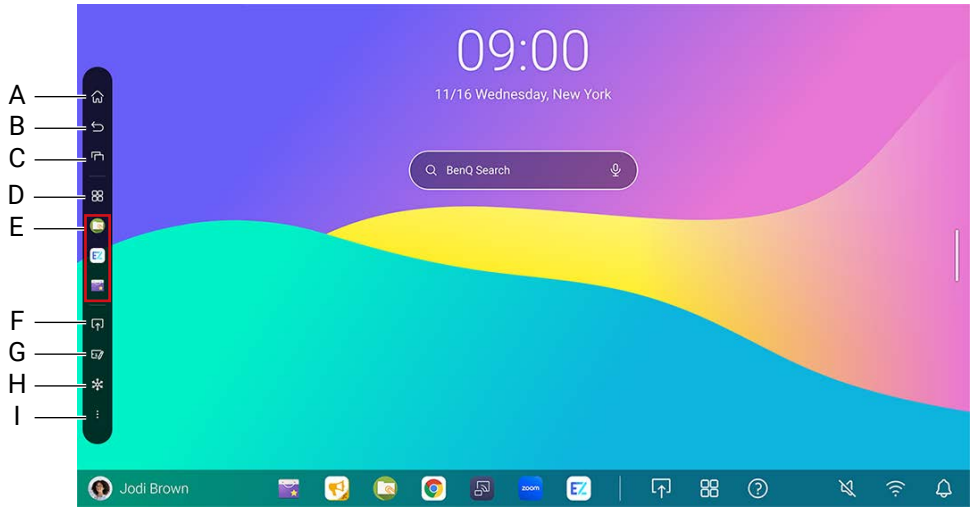
B. **User information**

C. **App shortcuts**
Add up to 7 shortcuts (sync with AMS web).
D. **Connection**
E. **All apps**
Tap to find all apps, widgets and bookmarks.
F. **Help**
G. **Volume**
H. **Wi-Fi**
I. **Notifications**

Side tool bar

Tap the side bars at the left or right of the main interface to access the side tool bar.

You may drag the tool to the top or bottom of the screen to suit your preference.



A. **Home**
B. **Back**
C. **Recent**
Switch between recent apps and input sources.
D. **Quick launch**
Tap to find all apps and bookmarks.
E. **Recently opened apps**
F. **Connection**
G. **EZWrite**
H. **Freeze**
I. **Floating tool** (see page 35)

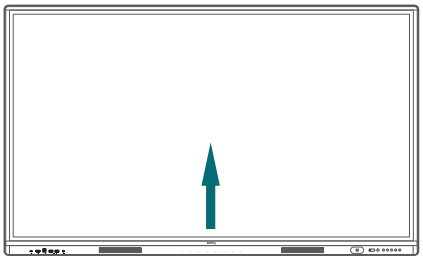
Set up the Internet connection

Your display must be connected to a network to conduct OTA updates or surf the Internet.

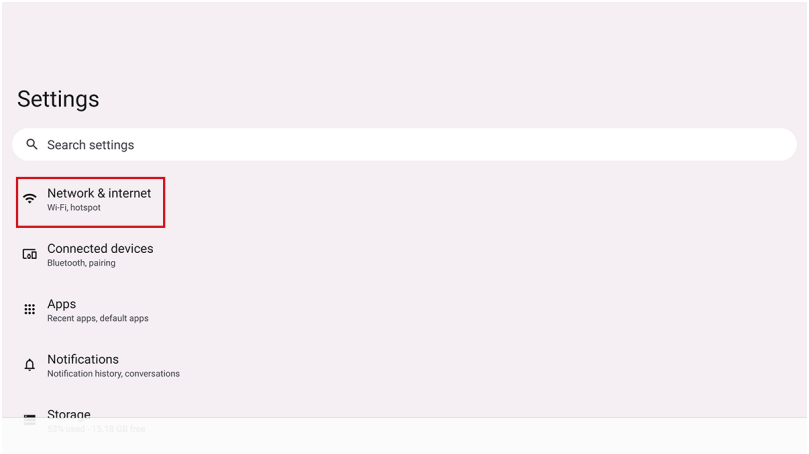
Wireless connection

You must use a wireless adapter in order to connect the display to the Internet wirelessly. Please contact your local dealer for more information on configuring the wireless connection.

1. To access your app list, swipe up from the bottom of your screen to the top.



2. In your app list, open the **Settings** app.
3. Tap **Network & Internet** > **Internet**.

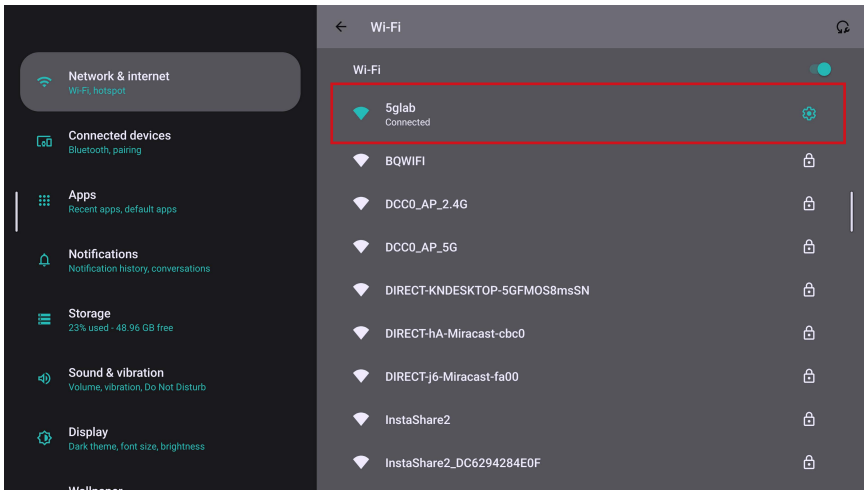


4. Tap the switch to turn on Wi-Fi.
5. Tap a listed network.

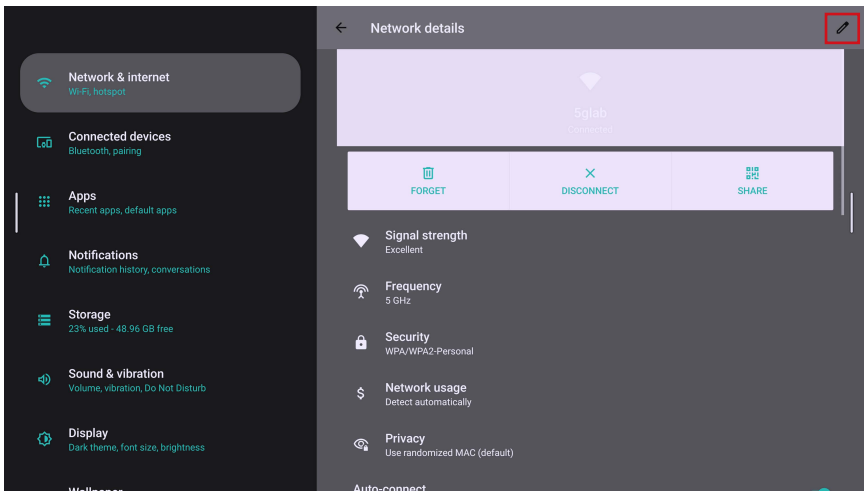
Wi-Fi or LAN can't be on at the same time. Check if LAN is turned off before you start using Wi-Fi.

Proxy settings for Wi-Fi

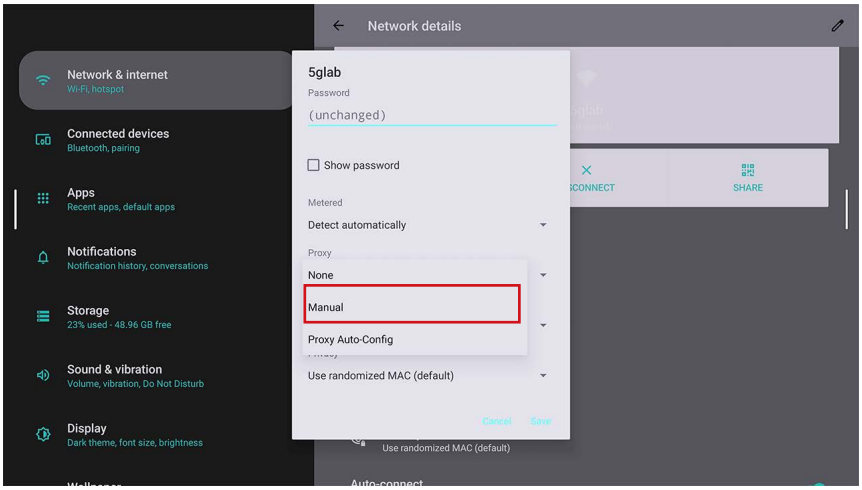
1. Open the **Settings** app.
2. Tap **Network & Internet** > **Internet**.
3. Select your Wi-Fi network from the list.



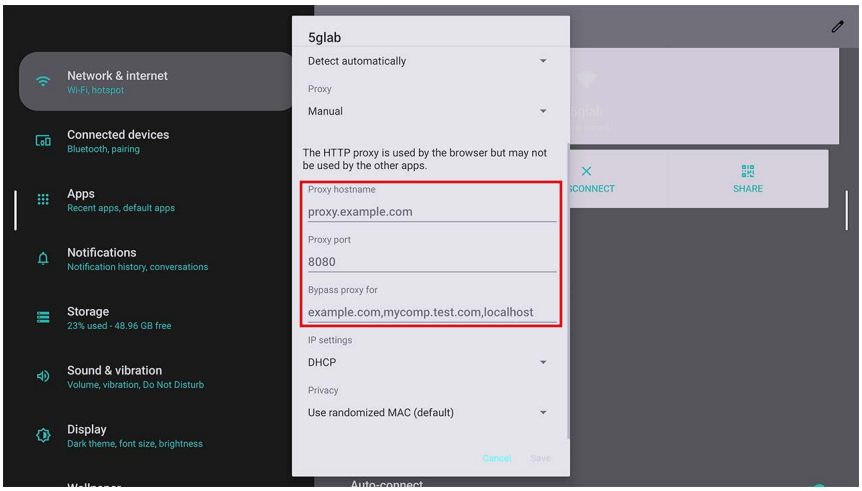
4. Select the pencil icon on the top right corner. A dialog box will pop up.



5. In the popup, tap **Advanced options** to extend the menu.
6. In the **Proxy** dropdown, select **Manual**.



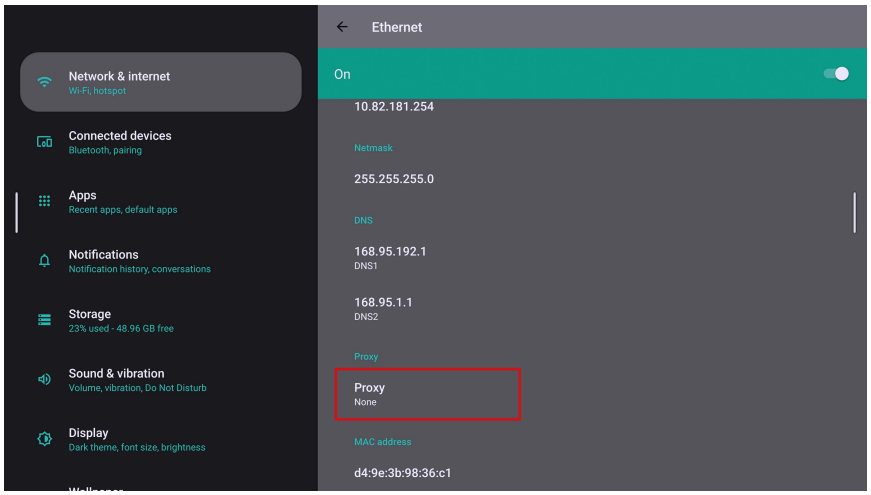
7. Enter your proxy server's information.



8. Save your settings.

Proxy settings for Ethernet

1. Open the **Settings** app.
2. Tap **Network & Internet** > **Ethernet**.
3. Select **Proxy** to extend the menu.

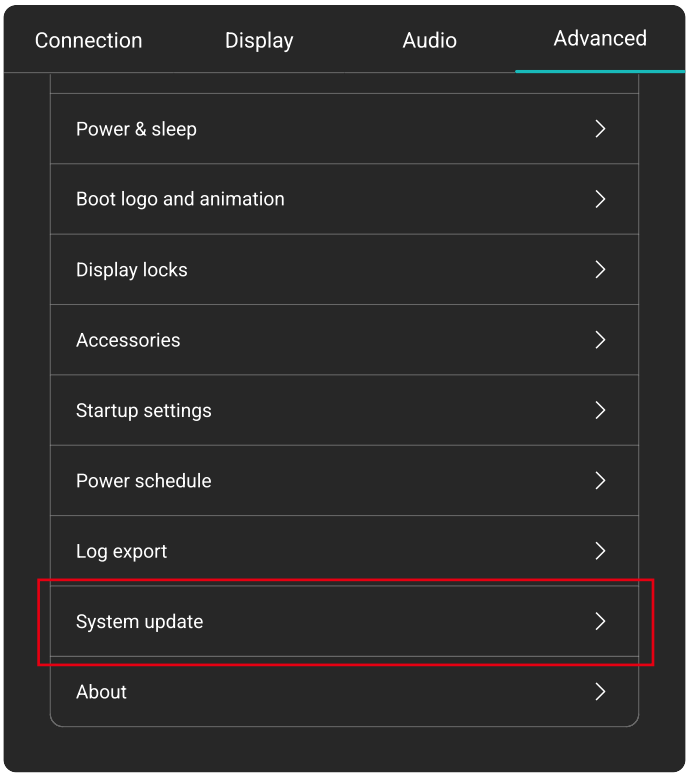


4. In the **Proxy** dropdown, select **Manual**.
5. Enter your proxy server's information.
6. Save your settings.

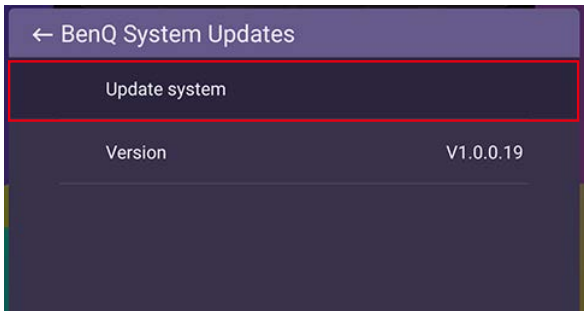
System update

The system will automatically detect and prompt for software updates on every startup.
To manually update the software

1. Press ⚙ on the remote control or on the control panel. The OSD menu appears.
2. Tap **Advanced** > **System update.**



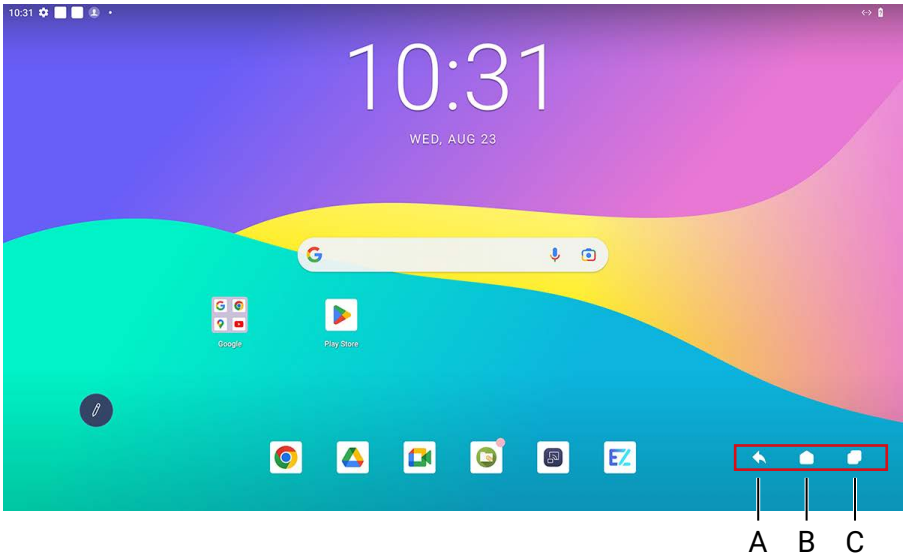
3. Select **Update system**. The system will begin updating.



- Software update process may take some time to complete.
- During the update process, do not turn off the device or disconnect the Internet connection. Any interruptions during the software update process may permanently damage your display.

Google system interface

If you did not enable BenQ services, you'll see the Google interface as below.



A. Back
B. Home
C. Recent apps

Menu operations

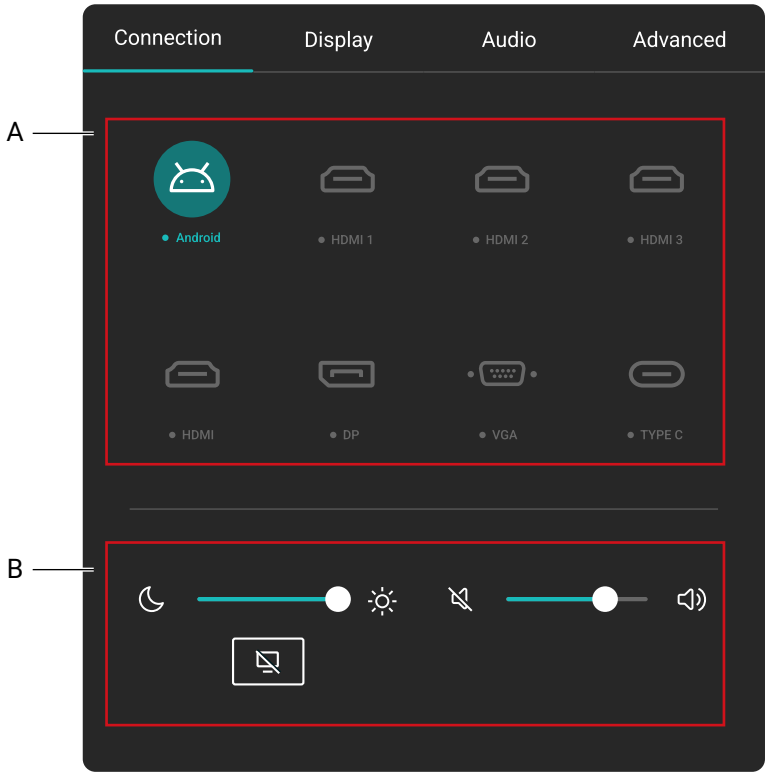
Through BenQ Board

- To enter the OSD menu, press ⚙ on the control panel.
- To make selections, directly tap an item.
- Tap a blank area outside the menu to exit.

Through remote control

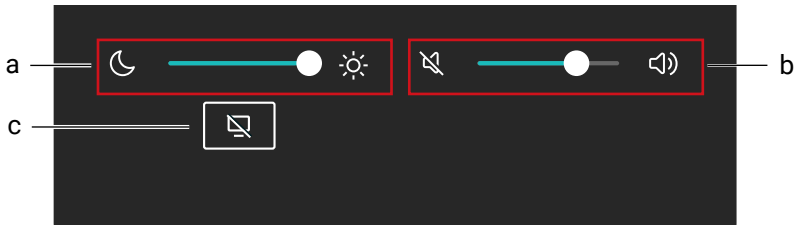
- To enter the OSD menu, press ⚙ on the remote control.
- To make selections, press ∧ / ∨ / < / > and press **OK** to confirm.
- Press ⮌ to exit the menu.

Connection settings



A. Select an input source to connect.
B. See General settings.

General settings



a. Brightness

- Use the brightness bar to adjust the brightness for the display.
- To adjust picture details, go to ⚙ > **Display** > **Picture mode**.

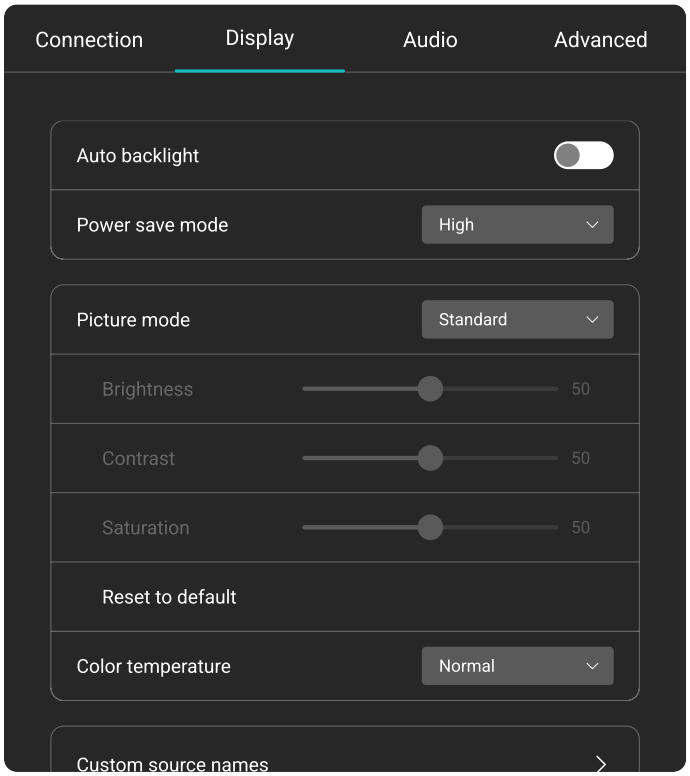
b. Audio

- Use the volume bar to adjust the volume for the display.
- To adjust audio details, go to ⚙ > **Audio**.

c. Blank

- Select to temporarily blank the screen.
- Tap anywhere on the screen to exit blank mode.
- Choose to keep the sound in background or not in ⚙ > **Display** > **Advanced settings** > **Blank button on remote**.

Display settings



Menu	Descriptions
Auto backlight	Switch on/off auto backlight.
Power save mode	When no input source such as HDMI, DP, VGA, Type-C is detected, power save options are as below. • **Off**: Always keep backlight on. • **Low**: Turn off backlight when no input source is detected after 5 minutes. • **High**: Turn off the display when no input source is detected after 5 minutes.
Picture mode	Switch between preset picture modes that best suit the type of images shown on the screen. Options are **Standard**, **Bright**, **Soft**, **Custom1**.
Color temperature	Adjust the color temperature of the display. Options are **Normal**, **Cool**, **Warm**.
Custom source names	Set unique names for each input source.
Advanced settings	Adjust functions below: • **Aspect ratio** • **EDID** • **HDMI CEC** • **Pixel shift** • **Dynamic contrast (DCR)** • **Auto switch source** • **HDMI out** • **Blank button on remote** • VGA calibration including **H-position**, **V-position**, **Clock**, **Phase**.

Eye-Care solutions

Blue light with wavelengths under 455 nm could affect vision. Eye-Care solution is designed for eyesight protection: the display provides proprietary eye-care technology with ultra-low blue light emission and no visible or invisible flicker within the range of 0-3000Hz, preventing eyestrain caused by extended sessions in front of a display. In addition, advanced anti-glare screen treatment minimizes distracting reflections and glare for optimal productivity and comfort.

Suggestions for long-term use of the display:
• Rest your eyes for 10 minutes after 30 minutes of continuous use.
• For every 20 minutes of display viewing, look into the distance for 20 seconds.
• When your eyes get sore and strained, close your eyes for a minute and then roll your eyes in all directions.

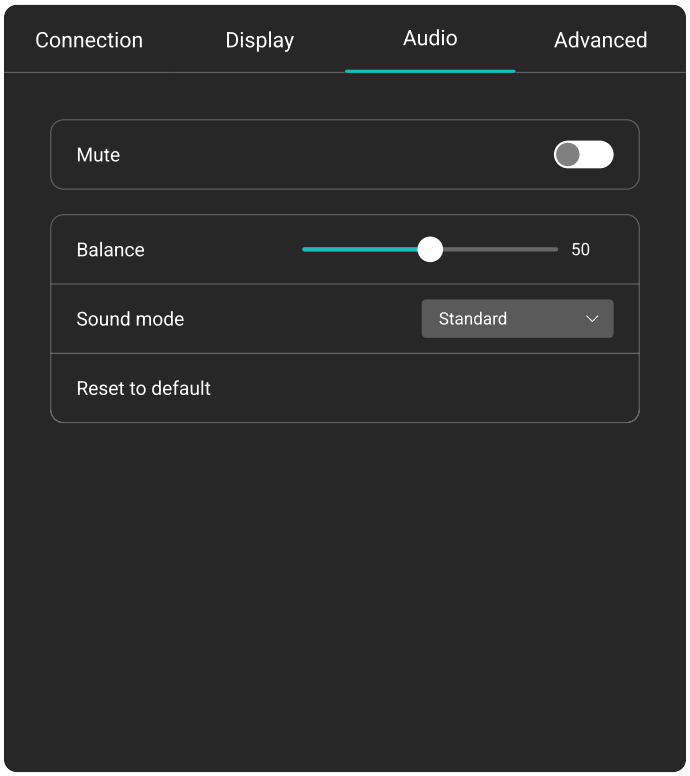
Low blue light & Flicker free

- To meet the Low Blue Light TÜV certification, the display settings should be:
  - **Picture mode: Standard**
  - **Color temperature**: **Warm**
- The default settings of the display meets the Flicker-free TÜV certification.

What is Flicker-free?

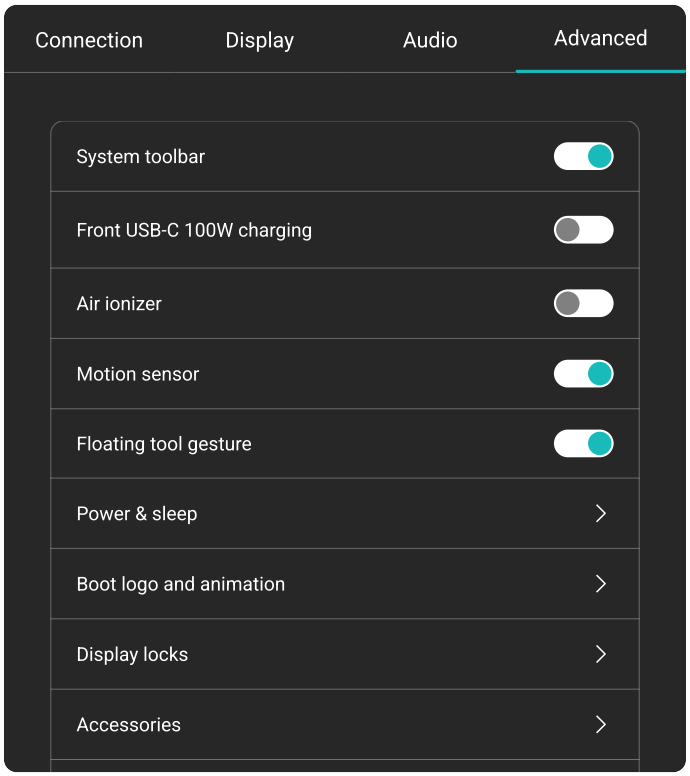
The display with the Flicker-free technology maintains a stable backlight with a DC dimmer that eliminates the primary cause of monitor flicker, making it easier on the eyes. The flicker-free technology does not only give you a comfortable viewing experience but also offers a safer choice that protects your eyes.

Audio settings



Menu	Descriptions
Mute	Tap the switch to mute or unmute.
Balance	Adjust the sound balance of the audio output.
Sound mode	Switch between preset sound modes that best suit your environment. • **Standard** • **News** • **Cinema** • **Sports**

Advanced settings



Menu	Descriptions
System toolbar	Show/Hide the toolbar.
Front USB-C 100W charging	Enable the function to allow 100 W charging. If disabled, the maximum charge rate is 65 W.
Air ionizer	Once enabled, the ionizer stays active for a maximum of 5 minutes. Then it requires a 5-minute rest period before another cycle.
Floating tool gesture	Enable/Disable activating Floating tool with two fingers.
Power & sleep	Set the time you want the display to automatically enter **Sleep**/**Power off** mode.
Boot logo and animation	Adjust your booting screen. You can disable the boot logo or customize your boot animation.
Display locks	Choose to turn the lock on/off. • **Keypad lock**: Lock the buttons on the control panel. • **Remote control lock**: Lock the remote control IR sensor on the control panel. • **Touch lock**: Lock the display screen. If all locks are locked all at once, press ⚙ on the control panel for 5 seconds to unlock.
InstaShare Button mode	Enable the mode to project wirelessly via InstaShare Button.
Accessories	Select your microphone and webcam source.

Menu	Descriptions
Startup settings	Set the **Startup source** and multiple wakeup settings**.** For **Slot-in PC startup**, options are as below: • **Source selected**: Starts up OPS by selecting **OPS** in **Connection**. • **Board startup**: Starts up OPS when BenQ Board starts up.
Power schedule	Start up and shut down the display at a designated time, and set a startup source. You can set up to 7 schedules.
System update	Manually update system software. See System update on page 26 for details.
USB cloning	Import device settings from your USB storage or export device settings to your USB storage.
About	View system information.

Floating tool

The EZWrite floating tool allows you to quickly write or create annotations on any screen that the display is showing.

To access the floating tool use either one of the following methods:

- In the Android interface, tap in the side tool bar.
- Under any input source or in the Android interface, touch and hold two fingers spaced about 20 – 50 mm apart on the screen for more than two seconds to launch the floating tool menu as shown below.

Icon	Function	Descriptions
/	Minimize/Restore	Minimize or restore the floating tool.
	Close	Close the floating tool.
	Pen	Enable the Pen tool.
	Highlighter	Enable the highlighter tool.
	Laser pointer	Enable the laser point on the screen.
	Eraser	Erase annotations on the screen. You may use a finger eraser or choose to clear all annotations
	Toolbox	Open the toolbox which includes the Calculator, Timer, Stopwatch, Scoreboard, and Draw tools.
	Recording	Record the screen.
	Screenshot	Take a screenshot of the screen.
	Operation mode	Hide all the annotations and operate the main interface.

Apps

You can access all google services and some BenQ Apps by default.

BenQ apps

Icon	Application name	Description
	AMS files	Access your personalized workspace environment and settings, and manage your files and accounts on any BenQ display that you have logged in to.
	EZWrite 6	An interactive whiteboard software that turns your display into a digital canvas.
	InstaShare 2	Allows screen mirroring and touch control for collaborative meetings.
	BenQ App Store	Allows you to download recommended apps.
	Notification	Allows you to receive upgrade notifications of existing apps and information of new apps available for download.
	X-Sign Broadcast	Lets you deliver scheduled messages and instant alerts to all your BenQ devices for any occasion.
	DMS Client	Allows remote management, configuration, and monitoring of the display.

Visit BenQ website to find the user manual for each BenQ software.

Supported media formats

Video

File	Codec detail		
Extension	Video	Audio	Maximum transmit ratio
.3gp/.3GP2	Mpeg-4	Mpeg2 Layer2/3, AAC- LC, PCM	1920*1080 60 Fps
	H.263		352*288 30 Fps
.avi	Mpeg-4	Mpeg2 Layer2/3,AAC- LC, PCM	1920*1080 60 Fps
	H.263		352*288 30 Fps
	H.264		3840*2160 30 Fps 100Mbps
.flv/.f4v	Mpeg-4	Mpeg2 Layer2/3,A AC- LC, PCM	1920*1080 60 Fps
	H.263		352*288 30 Fps
	H.264		3840*2160 30 Fps 100Mbps
.mkv	Mpeg-4	Mpeg2 Layer2/3, AAC- LC, PCM	1920*1080 60 Fps
	H.264		3840*2160 30 Fps 100Mbps
	VP8		1920*0 Fps
	VP9		3840*2160 60 Fps
	H.265		3840*2160 60 Fps
.mov	Mpeg-4	Mpeg2 Layer2/3, AAC- LC, PCM	352*288 30 Fps
	H.263		1920*1080 60 Fps
	H.264		3840*2160 30 Fps 100Mbps
.mp4	H.265	Mpeg2 Layer2/3, AAC- LC, PCM	3840*2160 60 Fps
	Mpeg-4		352*288 30 Fps
	H.263		1920*1080 60 Fps
	H.264		3840*2160 30 Fps 100Mbps
.mpg/.mpeg	Mpeg-4	Mpeg2 Layer2/3, AAC- LC, PCM	352*288 30 Fps
	H.264		3840*2160 30 Fps
.webm	VP9	Mpeg2 Layer2/3, AAC- LC, PCM	3840*2160 60 Fps
	VP8		1920*1080 60 Fps
.ts	H.265	Mpeg2 Layer2/3, AAC- LC, PCM	3840*2160 60 Fps
	Mpeg-4		352*288 30 Fps
	H.264		3840*2160 30 Fps 100Mbps

Audio

File	Format	Audio Codec	Supported range
.aac	AAC	AAC	Sample Rate: 8K~96KHz
			Bit Rate: VBR
.flac	FLAC	FLAC	Sample Rate: 8K~96KHz
			Bit Rate: VBR
.pcm	PCM	PCM	Sample Rate: 8KHz-48KHz
.alac	ALAC	ALAC	Sample Rate: 8KHz-48KHz

File	Format	Audio Codec	Supported range
.mp3	MPEG Audio Layer3	MPEG2 layer2/3	Sample Rate: 8K~48KHz
			Bit Rate: 8~320Kbps
.ogg	Vorbis	Vorbis	Sample Rate: 8K~96KHz
.wav	WAV	PCM	Sample Rate: 8K~48KHz

Photo

File	Format	Supported range
.bmp	BMP	8000x8000
.gif	GIF	6000x4500
.jpeg/jpg	JPEG	Base-line 8000x8000
		Progressive 8000x8000
.png	PNG	8000x8000

Product information

Specifications

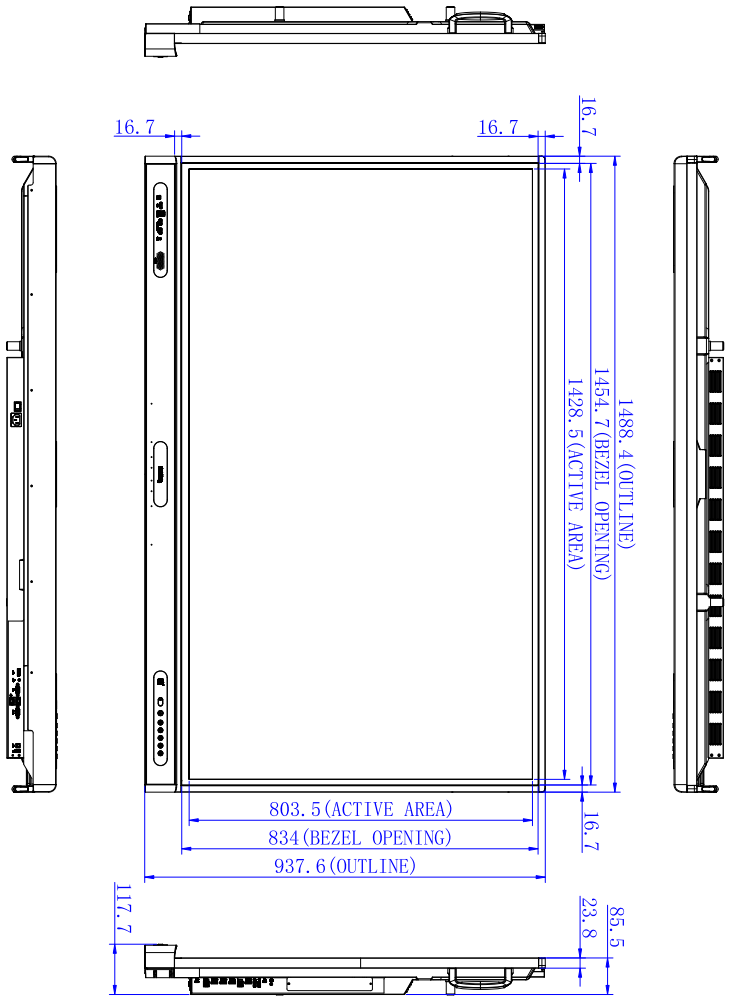
Item		Specifications
		RP6504 / RP7504 / RP8604
Panel	Size	RP6504: 65" / RP7504: 75" / RP8604: 86"
	Light Source	DLED
	Aspect Ratio	16:9
	Resolution	3840 x 2160
	Pixel Pitch(mm)	RP6504: 0.37(H) x 0.37(V) RP7504: 0.43(H) x 0.43(V) RP8604: 0.49(H) x 0.49(V)
	Brightness with Glass (Typical)	RP6504: 400 (typical) RP7504: 400 (typical) RP8604: 400 (typical)
	Brightness without Glass (Typical)	RP6504: 450 (typical) RP7504: 450 (typical) RP8604: 450 (typical)
	Contrast Ratio (Typical)	1200:1
	Viewing Angle	178
Touch	Technology	IR
	Touch Method	Finger & Stylus
	System	Windows 11/10/8/7/Windows XP/Linux/Mac OS X/ Android/Chrome
	Touch Point	Up to 50pts touch for Windows; up to 32 pts touch for Android
	Minimum Object Size	2 mm, pen tip is 4 mm/9 mm, supports 2 pens writing with 2 colors simultaneously
	Response Time	< 5 ms
	Accuracy	±1 mm, 90% area
	Glass	3.2 mm thickness, AG, 9H pencil, germ-resistant
Connectors	HDMI IN	Rear: x 3, Front: x 1 (2.0)
	HDMI Output	x 1 (4K@60Hz with audio)
	DP IN	x 1
	VGA IN	x 1
	PC-Audio IN (3.5 mm audio-in)	x 1
	Mic IN	x 1
	SPDIF (Optical)	x 1
	Audio Output (3.5mm Earphone)	x 1

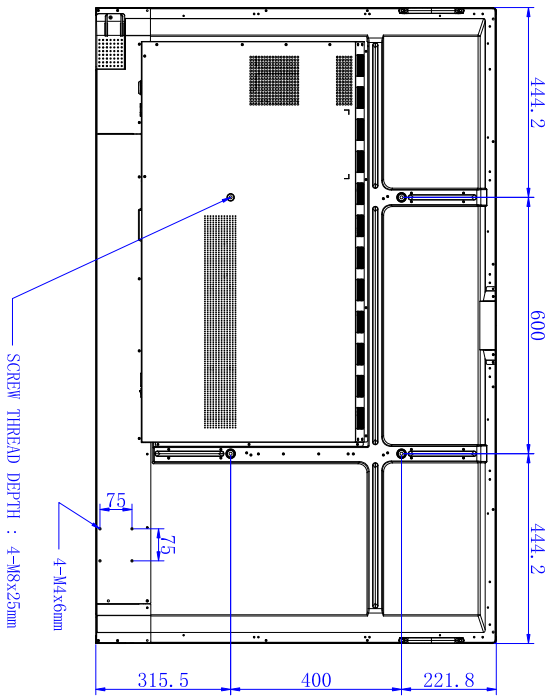
Item		Specifications
		RP6504 / RP7504 / RP8604
Connectors	USB 2.0 (Type A)	Rear I/O: x1
	USB 3.0 (Type A) (OPS/ External Follow)	Front: x2 Top: x1 Rear: x2
	USB 3.0 (Type A)	Wi-Fi dongle: x1 Remote control: x1
	USB Touch Output (OPS/ External pass through MIC/Camera/USB)	Rear: x 2, Front: x 1 (USB 3.0)
	RS232	x1
	LAN (RJ45)	OPS: 10M/100M/1000M Android: 10M/100M/1000M LAN IN x1 / LAN Out x1
	USB Type-C	Rear: Data/Power(up to 65W)/Touch/DP x1 (2.0), Data x2 (3.0) Front: Data/Power(up to 100W)/Touch/DP x1 (3.0)
Android System	System Version	Android 13
	CPU	A78 x 4 + A55 x 4
	GPU	G57 MC5
	RAM	8GB
	ROM	64GB
Video / Audio	Speaker Type	Built in speaker
	Output Power	20W x 2 w/ 16W subwoofer
Power	Power Requirements	AC 100V-240V, 50/60 Hz, 4.0A
	Standby Power	<0.5W
	Typical Power Consumption (W)	RP6504: 95.0 W RP7504: 109.3 W RP8604: 164.4 W
	Max Power Consumption (W)	RP6504: 426.8 W RP7504: 524.5 W RP8604: 619.6 W
	Wake Up	LAN/HDMI/VGA/DP
Others	Array Mic	x 8
	Light Sensors	Yes

Item		Specifications
		RP6504 / RP7504 / RP8604
Mechanical	Dimension (WxHxD)	RP6504: 1488.4 × 937.6 × 117.7 mm (58.6 × 36.9 × 4.6 inch) RP7504: 1709.4 × 1060.8 × 117.7 mm (67.3 × 41.8 × 4.6 inch) RP8604: 1957.0 × 1200.5 × 117.7 mm (77.0 × 47.3 × 4.6 inch)
	Dimension (Package) (WxHxD)	RP6504: 1628(W)*1024(H)*208(D) RP7504: 1863(W)*1155(H)*205(D) RP8604: 2110(W)*1291(H)*205(D)
	Net Weight | Gross Weight	40.6 kg | 47.8 kg (89.5 lbs | 105.4 lbs) 52.2 kg | 64.5 kg (115.1 lbs | 142.2 lbs) 64.7 kg | 79.6 kg (142.6 lbs | 175.5 lbs)
	Thickness of Machine and Wall Mount	Wall mount (VESA Mount)
	VESA for NUC	75 x 75 mm
	Wall-Hanging Screw Spec	M8*25L x 4
	VESA	RP6504: 600 x 400 mm RP7504: 800 x 400 mm RP8604: 800 x 600 mm
Accessories	Power Cord By Region	3 m x 1
	VGA Cable	3 m x 1
	USB Touch Cable	3 m x 1
	Type C Cable	1.5 m x 1
	HDMI Cable	3 m x 1
	Wireless USB Adapter (WD02AT)	x 1 (inserted, detachable)
	Writing Pen	2 pcs
	Wall Mount	x 1
	Remote Control	1 pcs (BenQ customized)
Environment	Operating Temperature	0°C ~ 40°C
	Operating Humidity	10% ~ 90% RH Non-Condensing
	Storage Temperature	-20°C ~ 60°C
	Storage Humidity	10% ~ 90% RH Non-Condensing
	Display Orientation	Landscape Only

- Specifications and functions are subject to change without notice.
- The OPS should be equipped with fire-resistant enclosures.

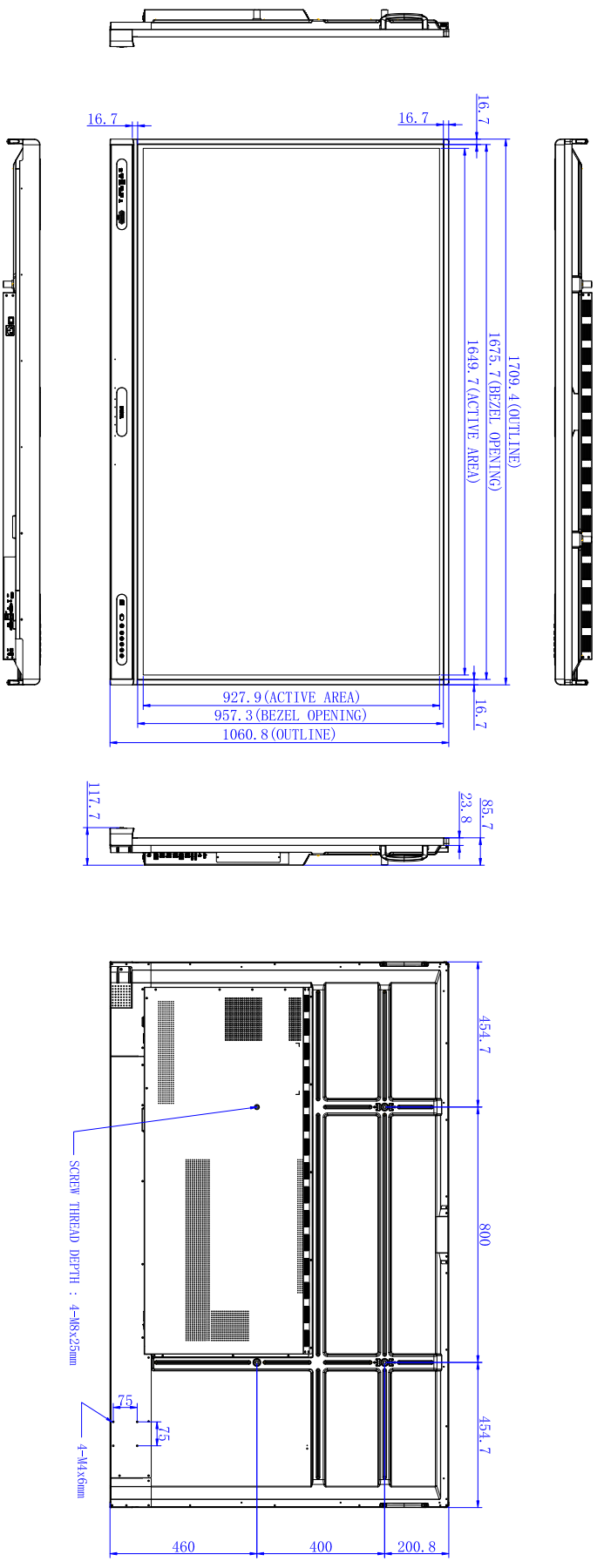
Dimensions (RP6504)





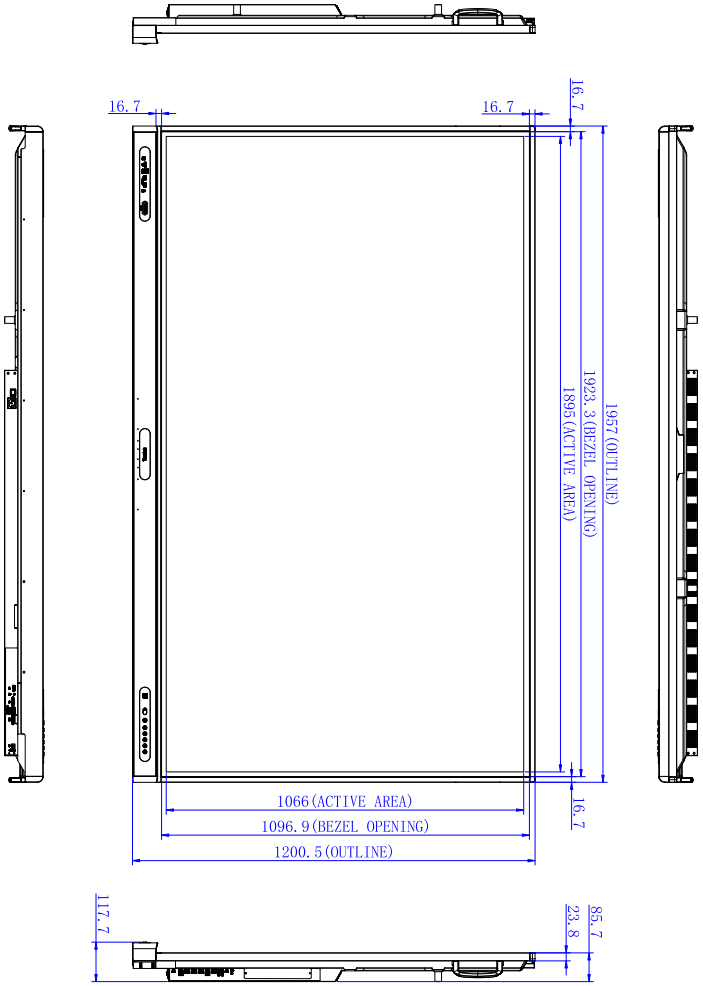
Unit: mm

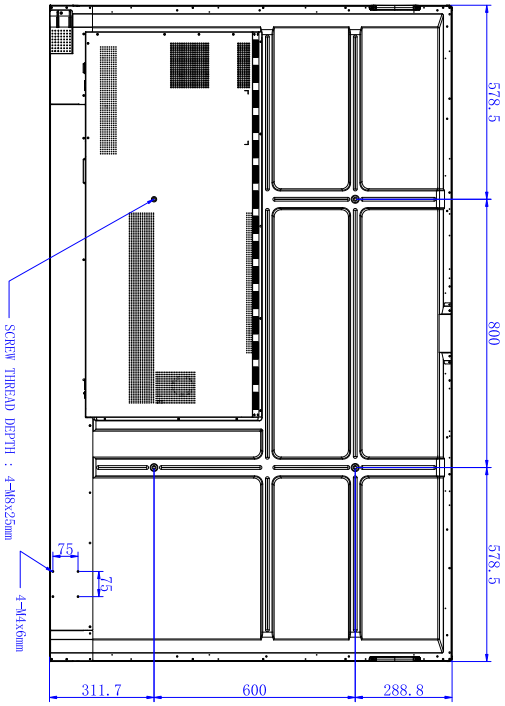
Dimensions (RP7504)



Unit: mm

Dimensions (RP8604)





Unit: mm

Supported input signal resolution

Resolution	Input source			
	TYPE C	VGA	HDMI 2.0	DP
640 x 480 @ 60Hz		O		
720 x 400 @ 85Hz				
800 x 600 @ 60Hz		O	O	
1024 x 768 @ 60Hz		O	O	
1280 x 768 @ 60Hz		O	O	
1280 x 960 @ 60Hz			O	
1280 x 1024 @ 60Hz		O	O	
1360 x 768 @ 60Hz		O	O	
1366 x 900 @ 60Hz		O	O	
1680 x 1050 @ 60Hz		O	O	
1920 x 1080 @ 60Hz	O	O	O	O
3840 x 2160 @ 24Hz	O		O	O
3840 x 2160 @ 25Hz	O		O	O
3840 x 2160 @ 30Hz	O		O	O
3840 x 2160 @ 50Hz	O		O	O
3840 x 2160 @ 60Hz	O		O	O
480i (60Hz)			O	O
480p (60Hz)			O	O
576i (50Hz)			O	O
576p (50Hz)			O	O
720p (50Hz)			O	O
720p (60Hz)			O	O
1080i (50Hz)			O	O
1080i (60Hz)			O	O
1080p (50Hz)			O	O
1080p (60Hz)			O	O

- O : supported
- Blank: not supported

Troubleshooting

Problem	Solution
No picture	Check the following: • Is the display turned on? Check the power indicator of the display. • Is the signal source device turned on? Turn on the device and try again. • Are there any loose cable connections? Make sure that all cables are connected firmly. • Have you chosen an unsupported output resolution on the computer? Refer to Supported input signal resolution on page 45 to select a supported resolution and try again. • Have you chosen an unsupported output resolution on the DVD or Blu-ray disc player? Refer to Supported input signal resolution on page 45 to select a supported resolution and try again.
No sound	Check the following: • Have you turned on the mute function on the display or the input source device? Turn off the mute function or increase the audio volume level and try again. • Are there any loose cable connections? Make sure that all cables are connected firmly.
The computer input image looks strange.	• Have you chosen an unsupported output resolution on the computer? Refer to Supported input signal resolution on page 45 to select a supported resolution and try again. • Use the **Auto adjust** function (VGA only) to let the display automatically optimize the display of computer image. • If the result of the **Auto adjust** function is not satisfactory, use the **Phase**, **H position**, and **V position** functions to manually adjust the image. • Go to **Display** > **Advanced settings** > **EDID**. Set **EDID** to 1.4 and try again.
The control panel buttons do not work.	Have you locked the control panel buttons? Unlock the buttons and try again.
The remote control does not work.	• Have you locked the remote control function? Unlock the function and try again. • Check for incorrect battery orientation. • Check for dead batteries. • Check your distance and angle from the display. • Check whether remote control is properly being pointed at the display's remote control sensor window. • Check for any obstacle between the remote control and the remote control sensor window. • Check that the remote control sensor window is not under strong fluorescent lighting, or in direct sunlight. • Check for any devices (computer or personal digital assistant, PDA) nearby that transmit infrared signals which may cause interference to signal transmission between the remote control and the display. Turn off the infrared function of these devices.

Problem	Solution
Remote control failure	• Check whether there are other objects between remote control and television remote control receiving window, thus leading to failure of remote control. • Check whether the battery electrode in the remote control is correct. • Check whether remote control needs to replace battery.
Machine automatically shutdown.	• Whether set sleep or not. • Check whether there is sudden power outage. • Check whether there is no signal automatic shutdown.
Signal out of range	• Check whether display is set correctly. • Check whether resolution is the best resolution. • Adjust line and field synchronization in menu.
Background has vertical lines or streaks.	• Select automatic correction in menu. • Adjust clock and phase position in menu.
Image lack of color, color is incorrect	• Check whether VGA is not well connected or has quality problem. • Adjust chromaticity and brightness or contrast in menu.
Display format that is not supported.	• Select automatic correction in menu. • Adjust clock and phase position in menu.
Touch function invalid	• Check whether touch driver is installed and started. • Check whether the size of article touched is comparable with finger.
Touch positioning not correct	• Check whether driver is properly installed and make correction. • Check whether touch pen is facing the screen.
With horizontal or vertical stripes or image dithering	• Check whether signal wire is well connected. • Check whether other electronic equipment or power tools are placed around the machine.
No color, color is weak or image is weak	• Adjust chromaticity and brightness or contrast in menu. • Check whether signal wire is well connected.
With image but without sound	• Check whether mute button is pressed for mute. • Press **VOL+/VOL-** to adjust volume. • Check whether audio line is connected correctly.
Only one speaker has sound	• Adjust sound balance in menu. • Check whether computer sound control panel only sets up one sound channel. • Check whether audio line is connected correctly.
VGA output without sound	• Check whether the external device is connected with a headphone cable.

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