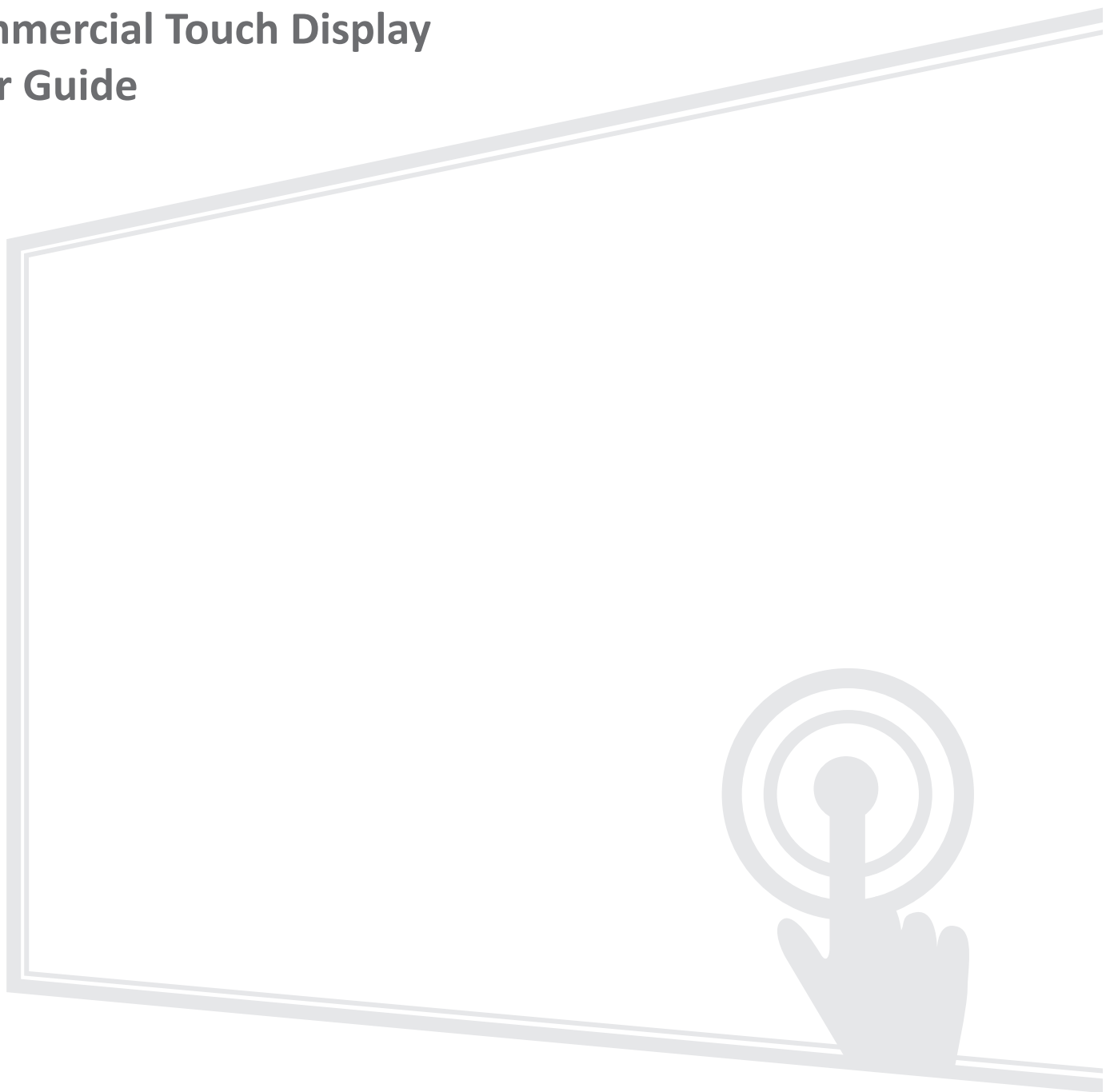


IN21C Series

Commercial Touch Display User Guide



IMPORTANT: Please read this User Guide to obtain important information on installing and using your product in a safe manner, as well as registering your product for future service. Warranty information contained in this User Guide will describe your limited coverage from ViewSonic® Corporation, which is also found on our web site at <http://www.viewsonic.com> in English, or in specific languages using the Regional selection box of our website.

Model No. VS20893 | VS20897 | VS20899

P/N: IN6521C-1C | IN6521C-2C | IN7521C-1C | IN7521C-2C | IN8621C-1C | IN8621C-2C

Thank you for choosing ViewSonic®

As a world-leading provider of visual solutions, ViewSonic® is dedicated to exceeding the world's expectations for technological evolution, innovation, and simplicity. At ViewSonic®, we believe that our products have the potential to make a positive impact in the world, and we are confident that the ViewSonic® product you have chosen will serve you well.

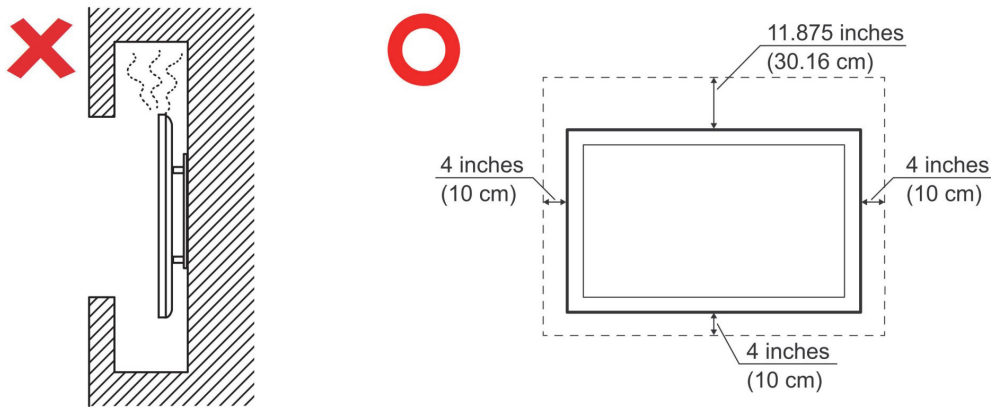
Once again, thank you for choosing ViewSonic®!

Safety Precautions

Please read the following **Safety Precautions** before you start using the device.

- Keep this user guide in a safe place for later reference.
- Read all warnings and follow all instructions.
- Do not use the device near water. To reduce the risk of fire or electric shock, do not expose the device to moisture.
- Never remove the rear cover. This display contains high-voltage parts. You may be seriously injured if you touch them.
- Avoid exposing the device to direct sunlight or other sources of sustained heat.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that may increase the temperature of the device to dangerous levels.
- Use a soft, dry cloth to clean the external housing. For more information, refer to the "Maintenance" section.
- When moving the device, be careful not to drop or bump the device on anything.
- Do not place the device on an uneven or unstable surface. The device may fall over resulting in an injury or a malfunction.
- Do not place any heavy objects on the device or connection cables.
- If smoke, an abnormal noise, or a strange odor is present, immediately turn the device off and call your dealer or ViewSonic®. It is dangerous to continue using the device.
- The device is a monitor with an LED backlight intended for general office use.
- Do not attempt to circumvent the safety provisions 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 and the third prong are provided for your safety. If the plug does not fit into your outlet, obtain an adapter and do not attempt to force the plug into the outlet.
- When connecting to a power outlet, DO NOT remove the grounding prong. Please ensure grounding prongs are NEVER REMOVED.

- Protect the power cord from being treaded upon or pinched, particularly at the plug, and at the point where it emerges from the equipment. Ensure that the power outlet is located near the equipment so that it is easily accessible.
- Only use attachments/accessories specified by the manufacturer.
- When a cart is used, use with caution when moving the cart/equipment combination to avoid injury from tipping over.
- Disconnect the power plug from the AC outlet if the device is not being used for a long period of time.
- Place the device in a well-ventilated area. Do not place anything on the device that prevents heat dissipation.



- Refer all servicing to qualified service personnel. Service will be required when the unit has been damaged in any way, such as:
 - » if the power supply cord or plug is damaged
 - » if liquid is spilled onto or objects fall in the unit
 - » if the unit is exposed to moisture
 - » if the unit does not operate normally or has been dropped

IMPORTANT

To ensure the optimal performance and longevity of your display, it is essential to follow the recommended handling, mounting, and storage procedures. Placing the display in a horizontal position can lead to a range of potential issues, including:

- Excessive stress on the display's structural components, resulting in the formation of cracks or distortions along the edges.
- Uneven weight distribution, which can cause the screen to warp, sustain internal damage, or crack over time.
- Thermal-related damage, as the internal components may not be able to dissipate heat as intended, leading to potential failure or permanent damage.

Furthermore, altering the display's form can also compromise the integrity of its internal components, including the sensitive LCD cells, which can result in a permanent degradation of the display's quality.

To prevent such issues and maintain the display's optimal condition, it is recommended to always mount, handle, transport, and store it in a vertical position. Failure to do so may void the warranty and compromise the display's performance and lifespan.

Note: Any damage resulting from the misuse or improper handling of the display is not covered under warranty.

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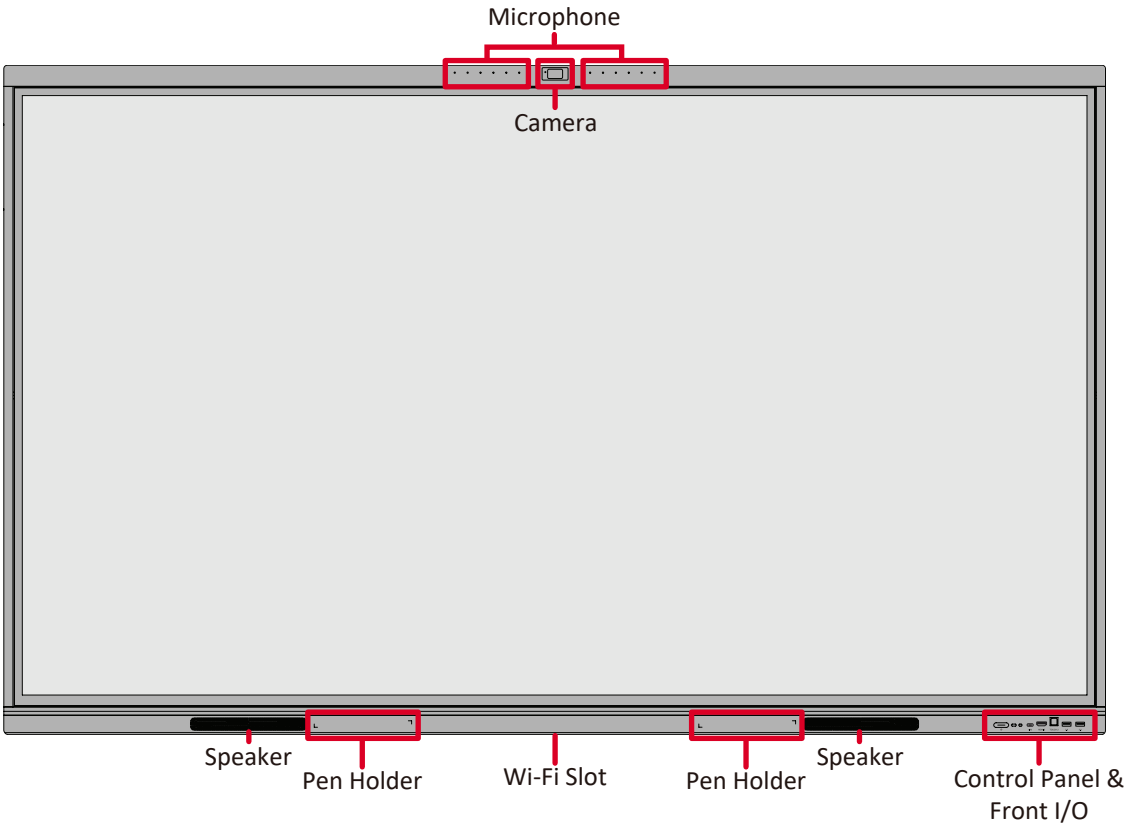
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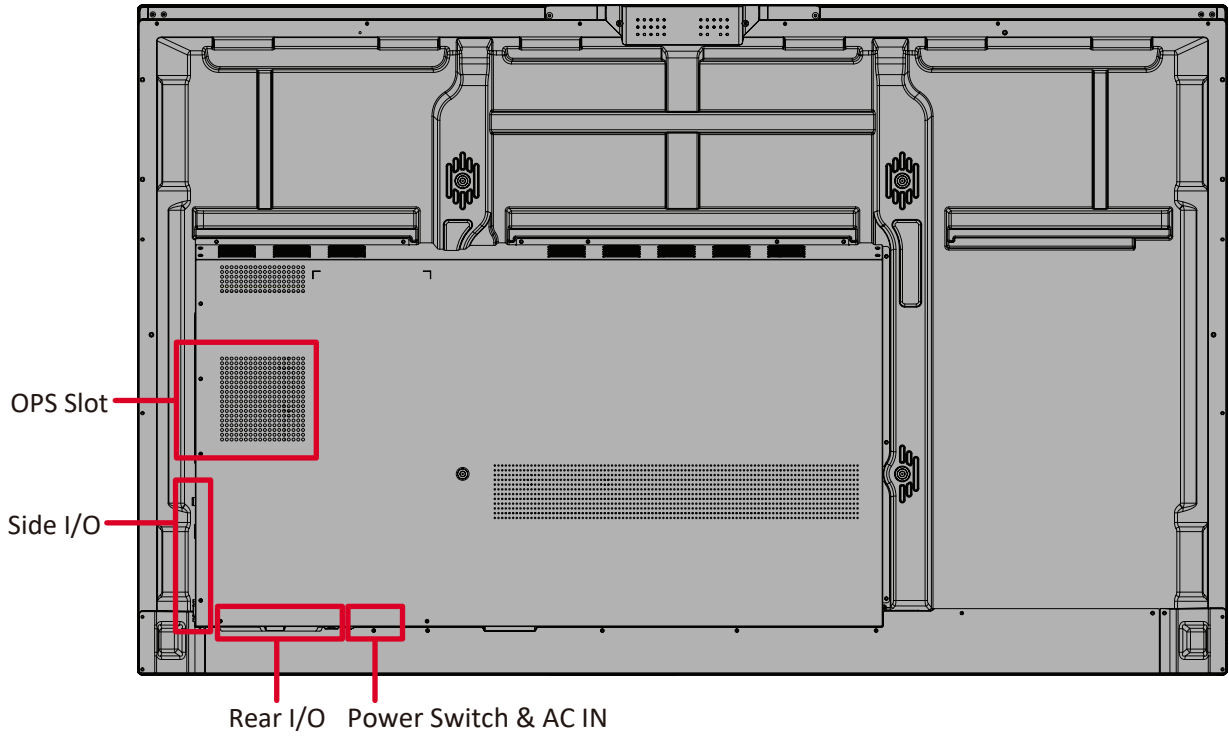
Introduction

Product Overview

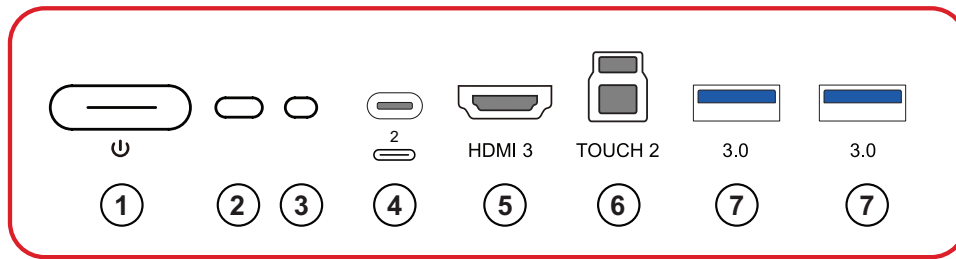
Front View



Rear View

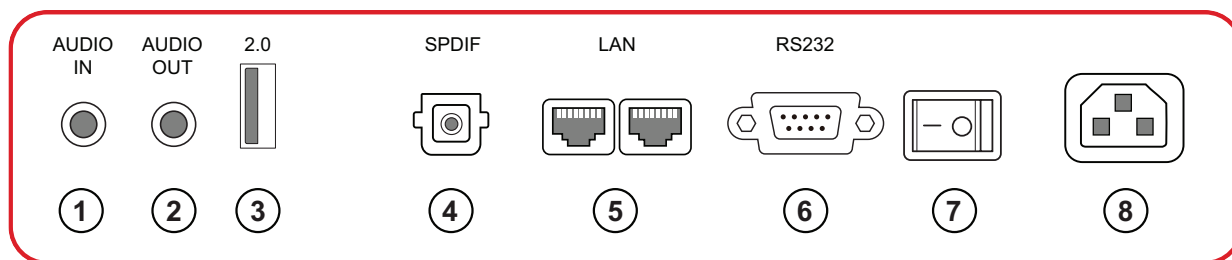


Control Panel and Front I/O



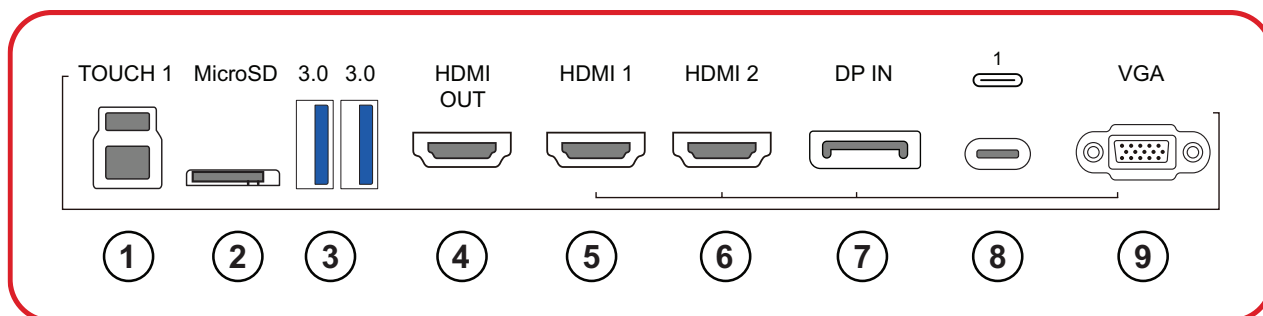
Number	Item	Description
1		- Press to turn on the display. - Once on, press again to turn on or off the backlight only. - Once on, press and hold to turn off the display.
2		Remote control IR receiver.
3		Ambient light sensor.
4		- USB Type C input. - USB 3.2 Gen 1 standard. - Supports DP v. 1.2 with audio, video, and touch. - Supports LAN by 10M/100M. - Power charge supported: 5V/3A, 9V/3A, 15V/3A, 20V/3.25A.
5	HDMI 3	- HDMI input. - Connect to a computer with HDMI output, set-top box, or other video device. - Supports 4K display; HDMI v. 2.1; CEC.
6	TOUCH 2	- USB Type B. - Touch signal output to external computer. - After connection (with an external computer), the device connected to the 3.0 port can directly be used by the external computer. Note: Pairs with the HDMI 3 port next to it.
7	3.0	- USB Type A input. - USB 3.2 Gen 1 standard. - Connect USB devices such as hard disks, keyboard, mouse, etc. - Automatically switches between the external computer and ViewBoard.

Rear I/O



Number	Item	Description
1	AUDIO IN	External computer audio input.
2	AUDIO OUT	Audio output to an external speaker/headset.
3	USB	• USB Type A input. • USB 2.0 standard. • For ViewBoard source use only.
4	SPDIF	Multichannel sound via optical signals.
5	LAN	• Standard RJ45 (10M/100M/1000M) Internet connection interface. • Features hub support for network sharing.
6	RS232	Serial interface; used for mutual transfer of data between devices.
7	Power Switch	Turn on or off the power supply.
8	AC IN	Power input.

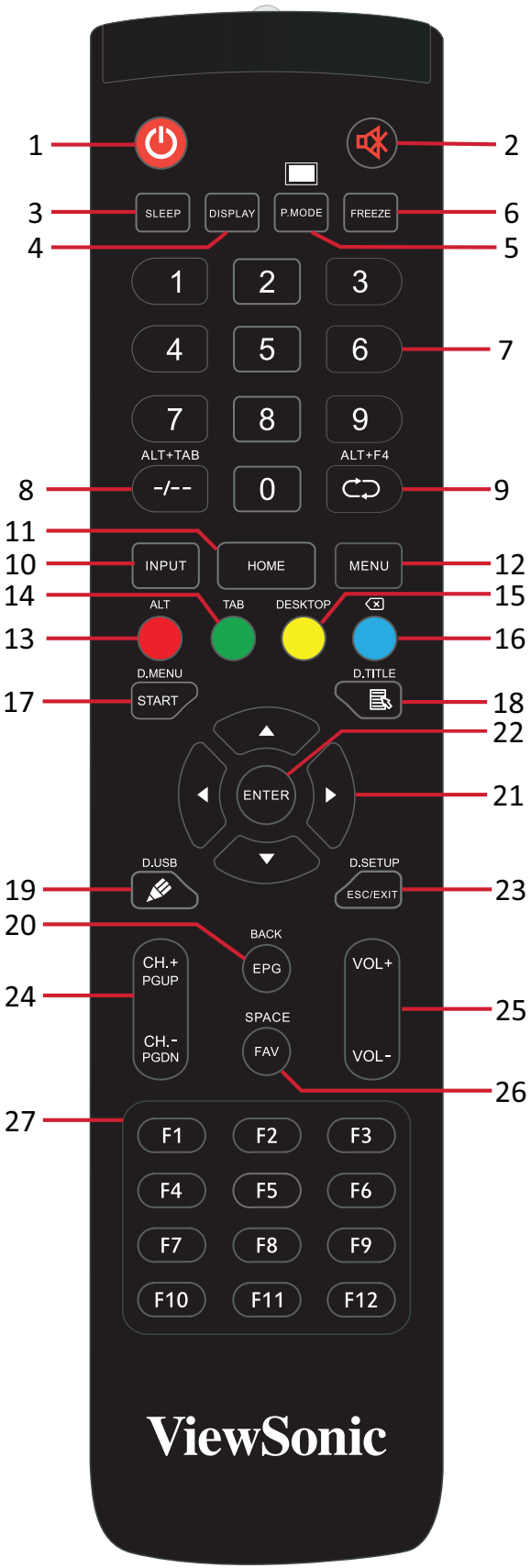
Side I/O



Number	Item	Description
1	TOUCH 1	• USB Type B. • Touch signal output to external computer. • After connection (with an external computer), the device connected to the 3.0 port can directly be used by the external computer. NOTE: Pairs with the HDMI 1/2 /DP IN/VGA port next to it.
2	MICRO SD	Data only, up to 512 GB.
3	3.0	• USB Type A input. • USB 3.2 Gen 1 standard. • Connect USB devices such as hard disks, keyboard, mouse, etc. • Automatically switches between the external computer and ViewBoard.
4	HDMI OUT	• Connect to a computer with HDMI output, set-top box, or other video device. • Supported by select models. NOTE: CEC and ARC are not supported.
5	HDMI 1	• HDMI input. • Connect to a computer with HDMI output, set-top box, or other video device. • Supports 4K display; HDMI v. 2.1; CEC; ARC.
6	HDMI 2	• HDMI input. • Connect to a computer with HDMI output, set-top box, or other video device. • Supports 4K display; HDMI v. 2.1; CEC.
7	DP IN	• DisplayPort input (v. 1.2). • Supports 4K display.

Number	Item	Description
8	1 	• USB Type C. • For data read/write only. • USB 3.0 standard.
9	VGA	External computer video input.

Remote Control



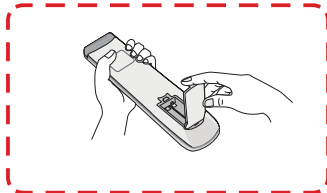
Number	Item	Description
1		Power on/off
2		Mute/Unmute
3	SLEEP	Sleep Mode
4	DISPLAY	For Non-Android sources; display current input source information
5	P.MODE	Picture Mode
6	FREEZE	Freeze Screen
7		Numeric input buttons
8	ALT+TAB -/--	Slot-in computer space bar Alt+Tab
9	ALT+F4 	Slot-in computer, close program window
10	INPUT	Input source selection
11	HOME	Back to slot-in system main interface
12	MENU	Access Settings
13	Red / ALT	Screen capture
14	Green / TAB	PC ¹ [Tab] button
15	Yellow / DESKTOP	Switch to slot-in PC desktop
16	BLUE / 	PC ¹ [Backspace] button
17	START / D.MENU	PC ¹ [Windows] button
18	 / D.TITLE	PC ¹ [Menu] button
19	 / D.USB	Writing software setup
20	EPG/BACK	Return button
21	Navigation	Scroll up, down, left, and right
22	ENTER	Confirm selection/state
23	ESC / EXIT / D.SETUP	Shortcut button to exit dialogue boxes
24	CH.+ / PGUP / CH.- / PGDN	Increase/Decrease brightness
25	VOL+ / VOL-	Increase/Decrease volume
26	FAV / SPACE	PC ¹ [Space] button
27	F1-F12	Built-in computer F1 - F12 function button

1 - All computer-related function keys are not available without a slot-in computer.

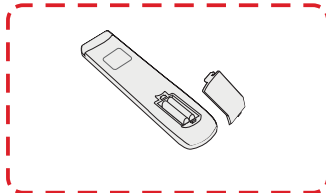
Inserting Remote Control Batteries

To insert batteries into the remote control:

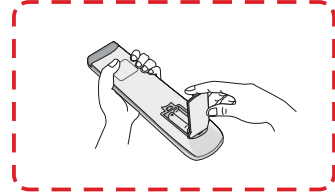
1. Remove the cover on the rear of the remote control.
2. Insert two “AAA” batteries, ensuring the “+” symbol on the battery matches the “+” on the battery post.
3. Replace the cover by aligning it with the slot on the remote control and snapping the latch shut.



(1)



(2)



(3)

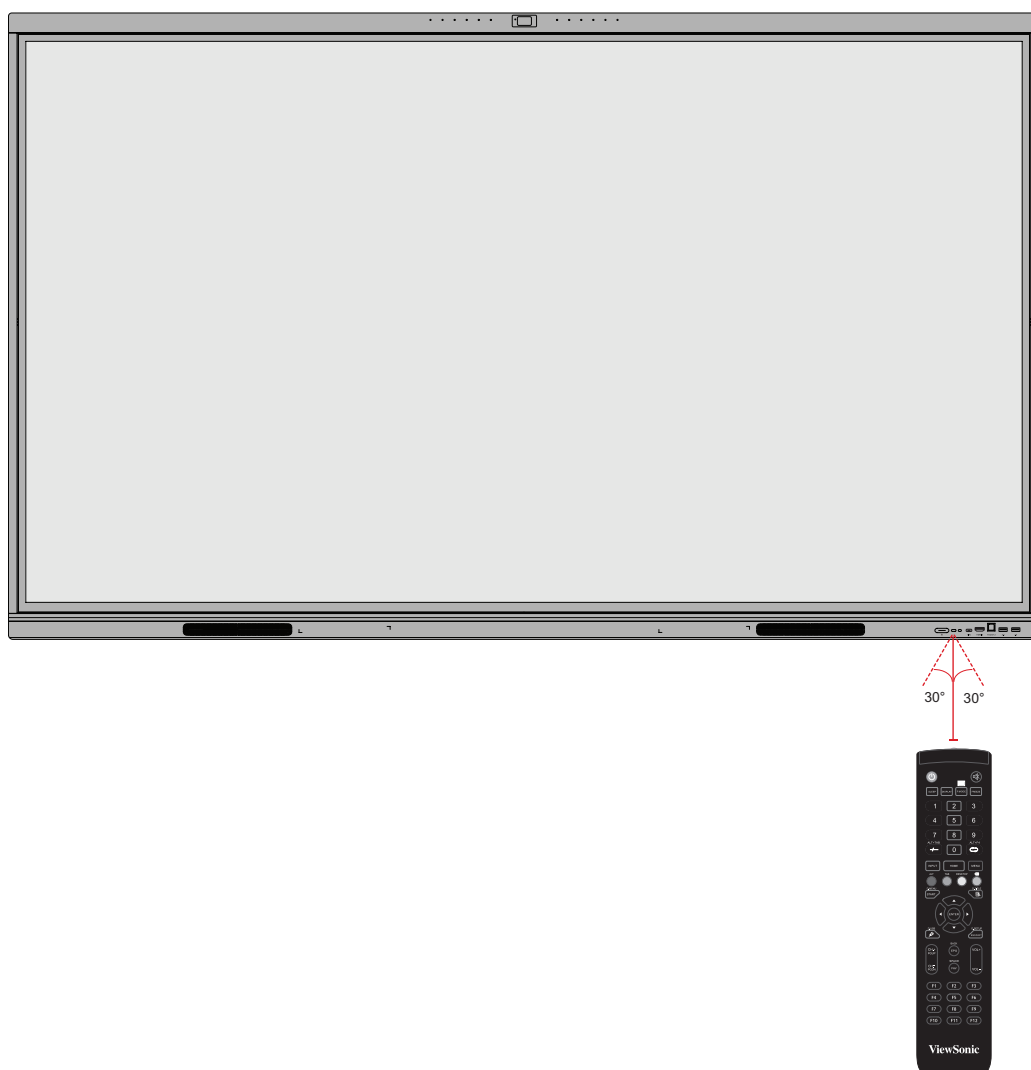
WARNING: There is a risk of explosion if batteries are replaced with the incorrect type.

Note:

- It is recommended that you do not mix battery types.
- Always dispose of old batteries in an environmentally friendly way. Contact your local government for more information on how to dispose of batteries safely.

Remote Control Receiver Range

The working range of the remote control is shown here. It has an effective range of 8 meters, 30-degrees left and right. Please make sure there is nothing obstructing the remote control's signal to the receiver.

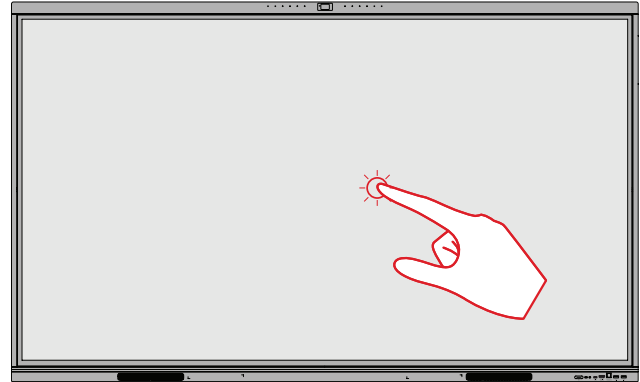


Using Gestures

Touch gestures allow the user to use pre-determined commands without using a keyboard or mouse. Using gestures on the ViewBoard, the user can select/deselect objects, change the location of an object, access settings, erase digital ink, and much more.

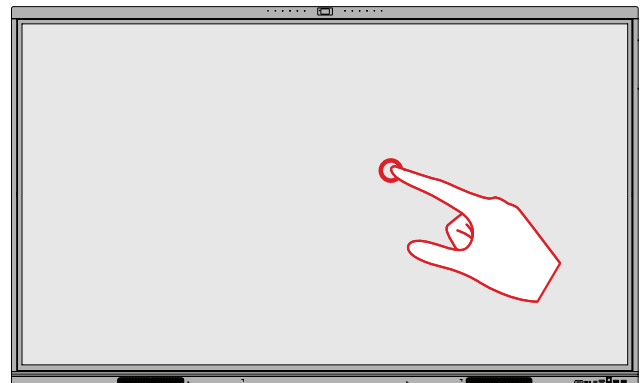
Select and Deselect an Object (Clicking)

Press and release the ViewBoard to select/deselect options or objects. This is like a single, standard left mouse click.



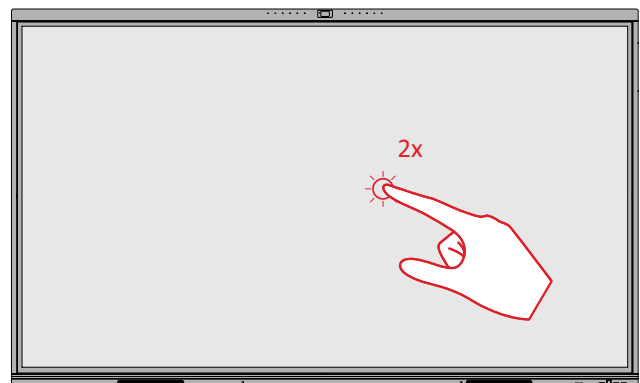
Display Menu Options (Right-Clicking)

Press and hold the ViewBoard with your finger. This is like a single, standard right mouse click.



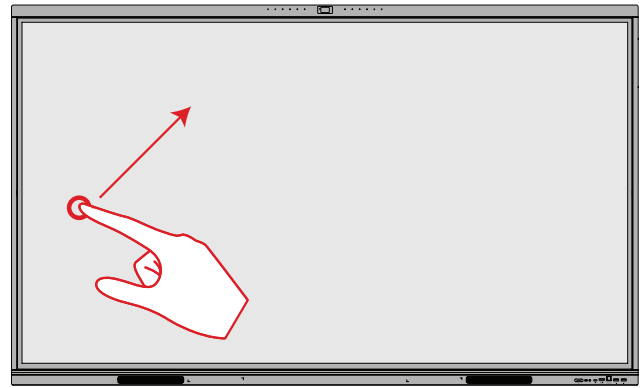
Double-Clicking

Quickly press and release twice in the same location on the ViewBoard. This is like a double, standard left mouse click.



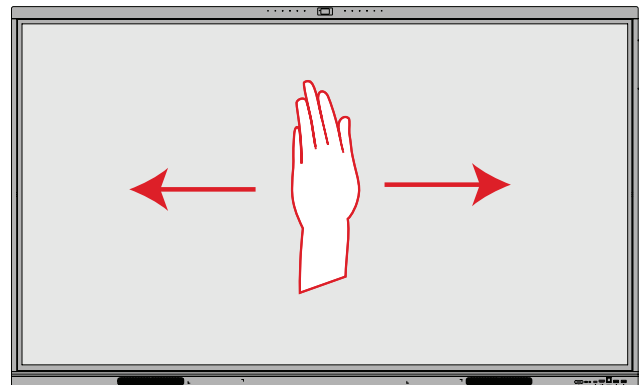
Moving an Object

Press and hold the object on the ViewBoard and slowly drag it with your finger to your desired location.



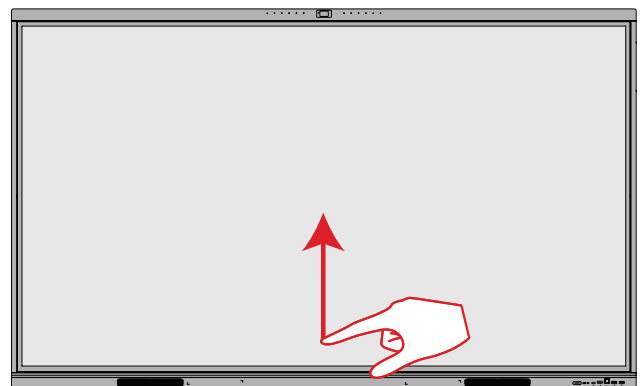
Erasing Digital Ink

Use your flattened hand, palm, or fist on the ViewBoard and move your hand across the area which you wish to erase.



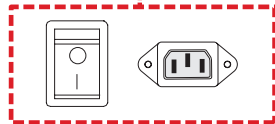
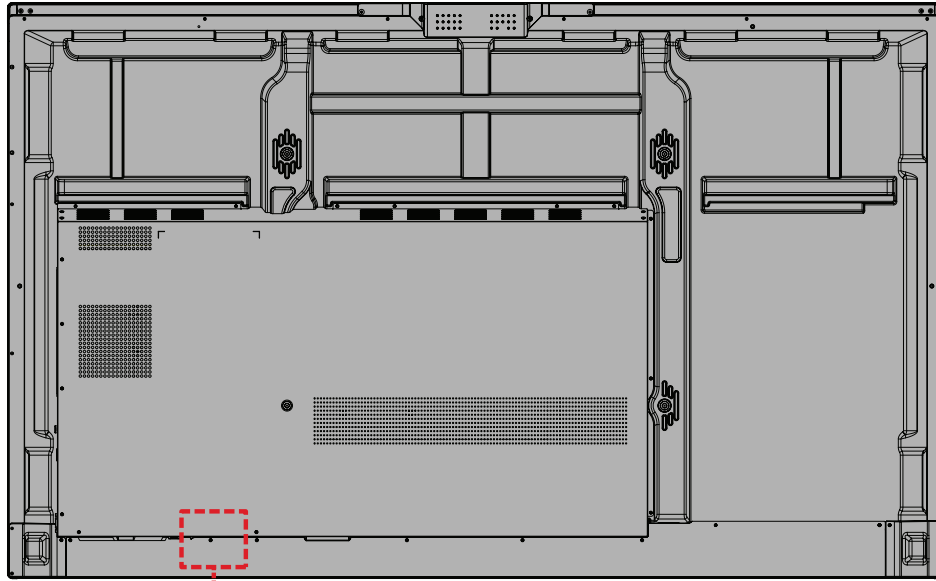
Swipe Up for General Settings

Swipe up from the bottom of the ViewBoard to launch the General Settings.



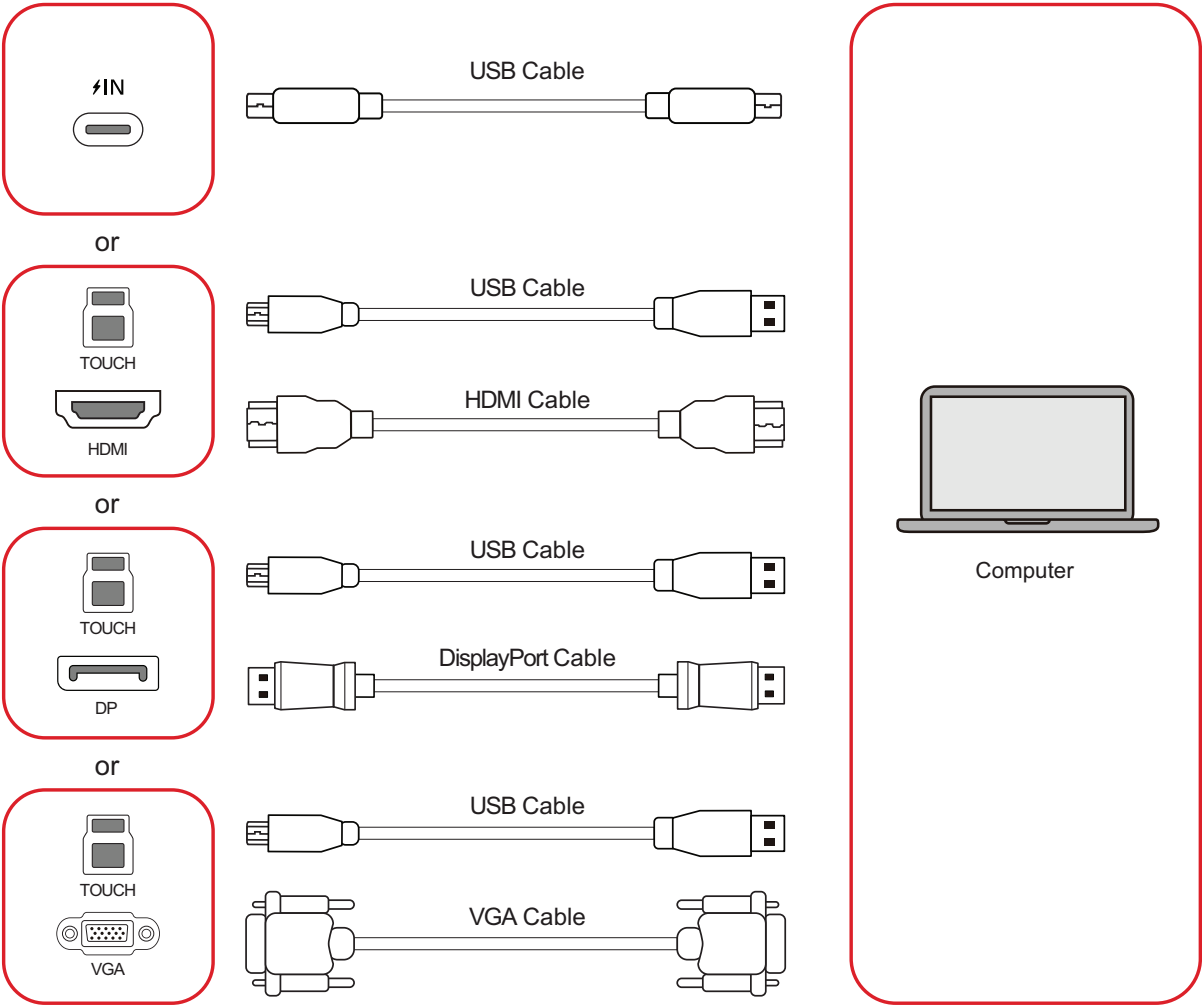
Making Connections

Connecting to Power



1. Connect the power cord to the **AC IN** jack at the rear of the display.
2. Plug the power cord plug into a power outlet.

Connecting to Video Inputs and Enabling Touch



Your external device(s) can be connected in any of the following configurations:

USB Type C Connection

Connect a USB Type C cable from your external device to the display's Front I/O USB Type C port.

HDMI Connection

1. Connect an HDMI cable from your external device to the **HDMI 1/2/3** port on the display.
2. Connect a USB Type B to USB Type A cable to the external device from the appropriate **TOUCH** port of the display.

Note:

- The **TOUCH 1** port is for the **HDMI 1/HDMI 2/DP/VGA** port.
- The **TOUCH 2** port is for the **HDMI 3** port.

DisplayPort Connection

1. Connect a DisplayPort cable from your external device to the **DP** port on the display.
2. Connect a USB Type B to USB Type A cable to the external device from the appropriate **TOUCH** port of the display.

Note:

- The **TOUCH 1** port is for the **HDMI 1/HDMI 2/DP/VGA** port.
- The **TOUCH 2** port is for the **HDMI 3** port.

VGA Connection

1. Connect a VGA cable from your external device to the **VGA** port on the display.
2. Connect a USB Type B to USB Type A cable to the external device from the appropriate **TOUCH** port of the display.

Note:

- The **TOUCH 1** port is for the **HDMI 1/HDMI 2/DP/VGA** port.
- The **TOUCH 2** port is for the **HDMI 3** port.

RS-232 Connection

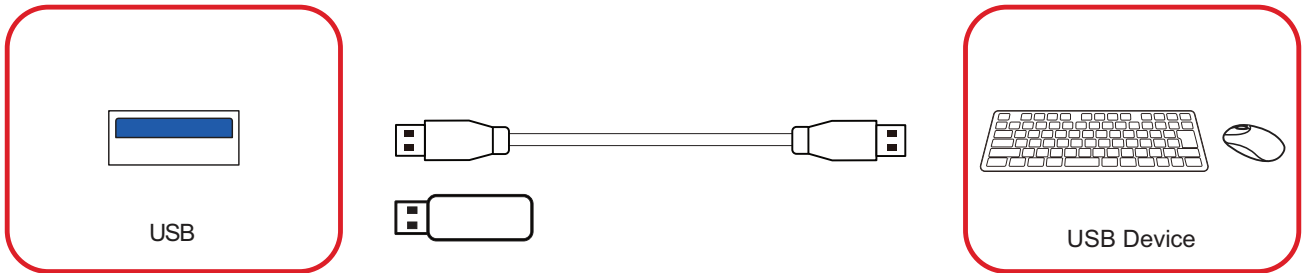


When you use a RS-232 serial cable to connect the display to an external computer or control system, certain functions can be controlled remotely such as: power on and off, volume adjustment, input select, brightness, and more.

USB Connection

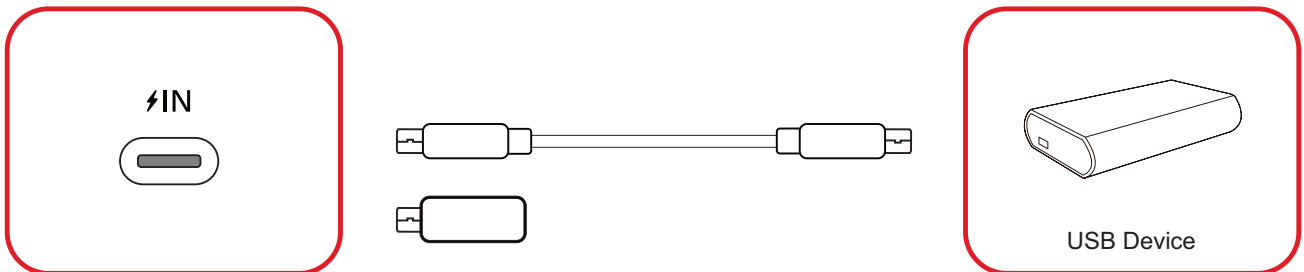
Just like any PC, it is easy to connect various USB devices and other peripherals to the display.

USB Type A



Plug the USB device or storage drive into a **3.0** or **2.0** port of the display.

USB Type C



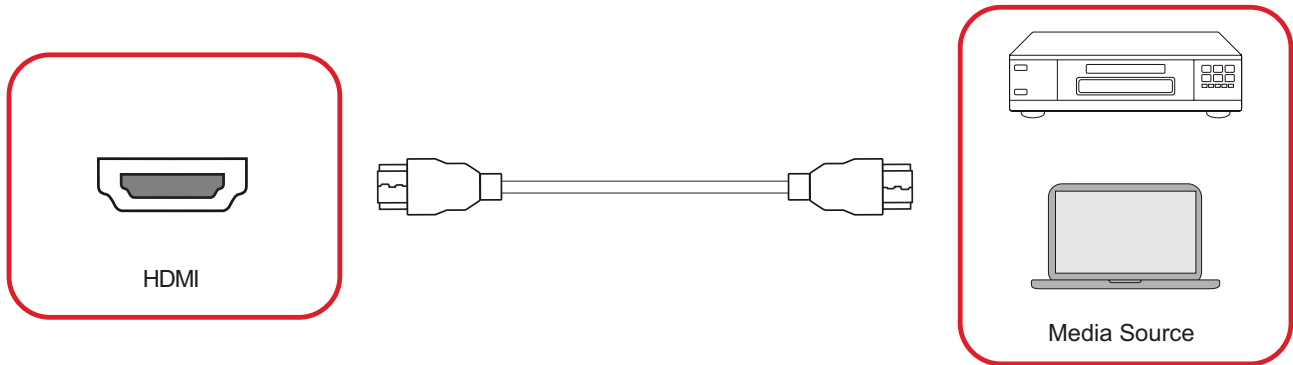
Plug the USB device or storage drive into a USB Type C port of the display.

Network Connection



To connect to a local network, connect an Ethernet cable to your network, then connect the other end to a **LAN** port of the display.

Media Connection



To connect to a media source:

1. Connect an HDMI cable to an **HDMI** port on the display and peripheral device.
2. Press the **INPUT** button on the remote control and switch to the HDMI input source.

Video Output



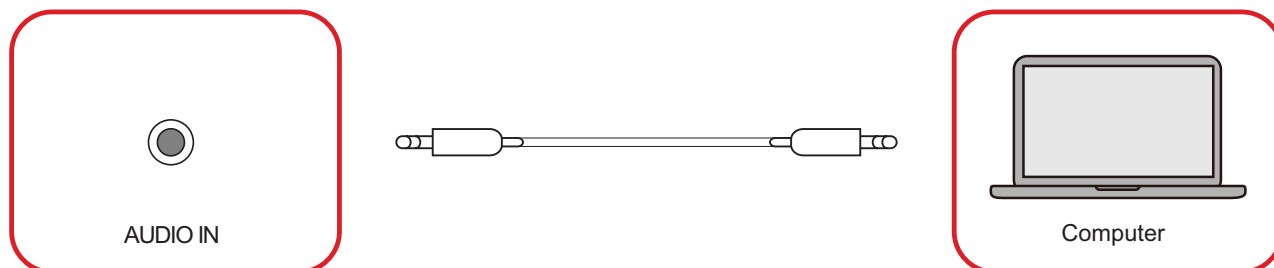
To output video via a display device:

1. Connect an HDMI cable to the HDMI IN port of your display device, then connect the other end to the **HDMI OUT** port of the display.
2. Press the **INPUT** button on the remote control and switch to the HDMI IN input source.

Audio Connection

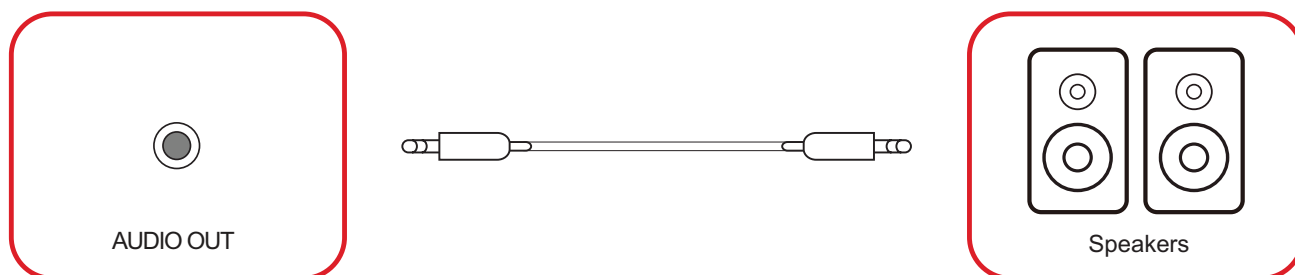
The display supports **Audio In**, **Audio Out**, and **SPDIF**.

Audio In



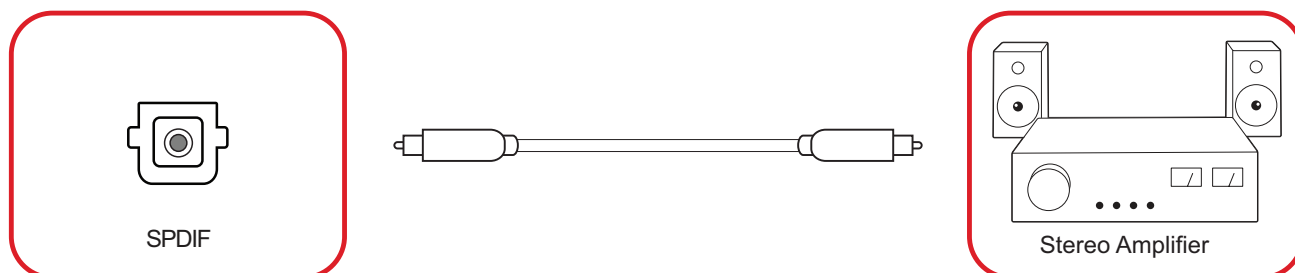
To play audio from your external device through the display's speakers, connect one end of an audio cable to your external device, and the other end to the display's **AUDIO IN** port.

Audio Out



To play audio from the display through an external speaker, connect one end of an audio cable to the external speaker, and the other end to the display's **AUDIO OUT** port.

SPDIF Connection



To connect to an external sound system, connect an optical cable from the display's **SPDIF** port to your sound system's optical connector.

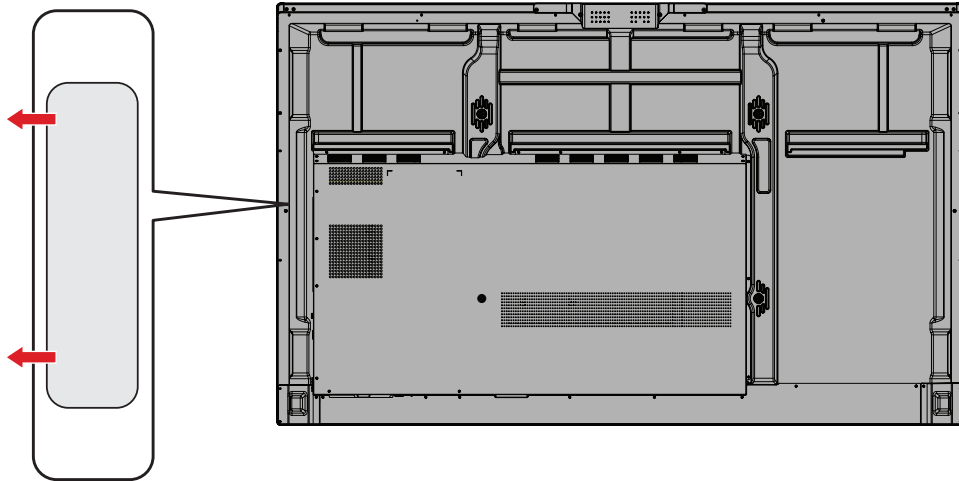
Optional Connections

Note: The following illustrations are for instructional purpose only. For details, please refer to the actual device.

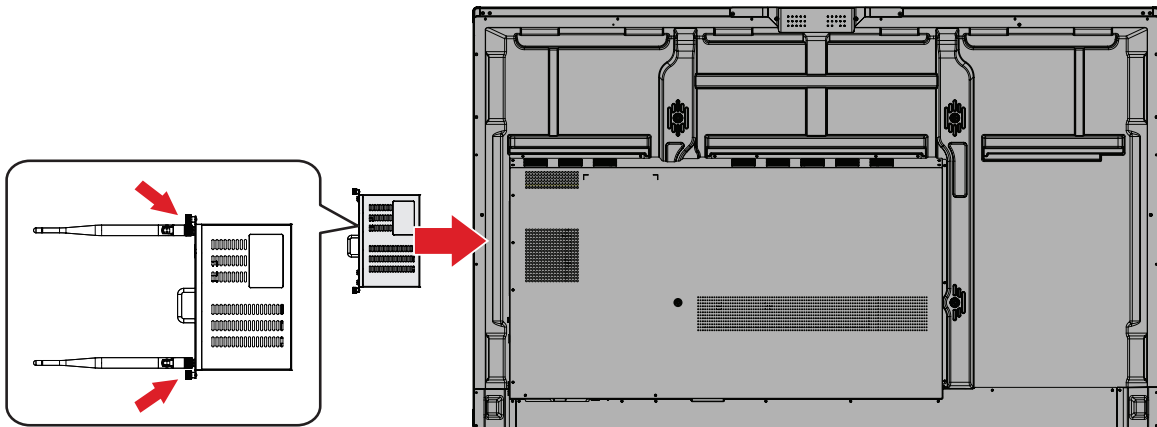
The display comes with an **OPS Slot** for optional add-ons such as a slot-in PC (e.g., VPC-35).

Slot-in PC (OPS Slot) Installation

1. Remove the **OPS Slot** cover of the display.



2. Carefully insert the slot-in PC into the **OPS Slot** of the display.

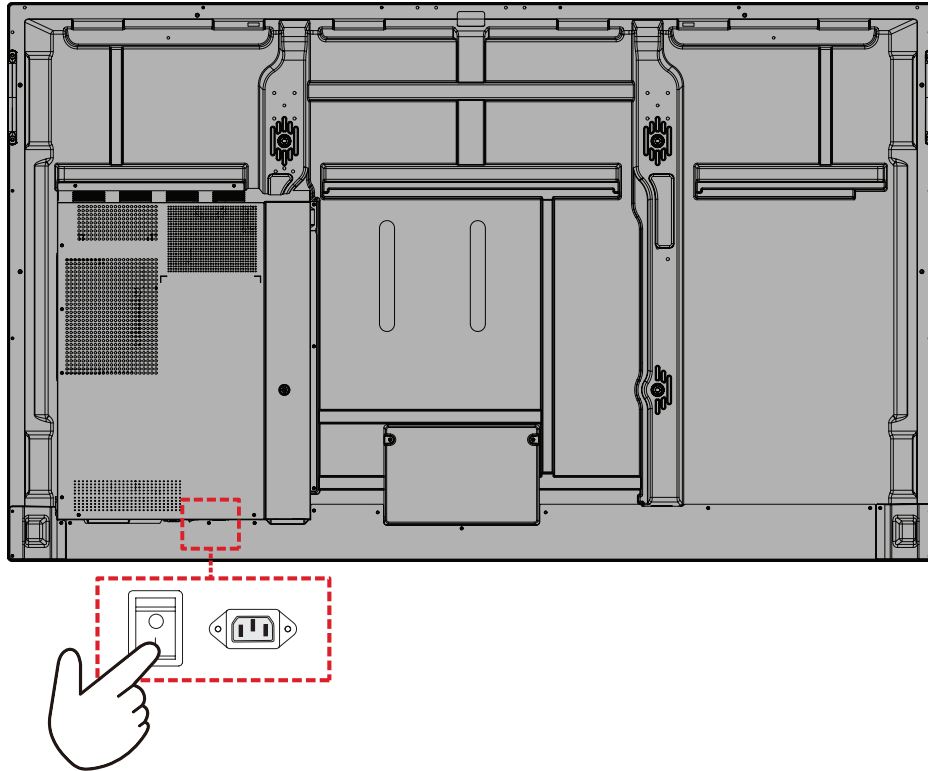


3. Secure the slot-in PC to the display.

Using the Display

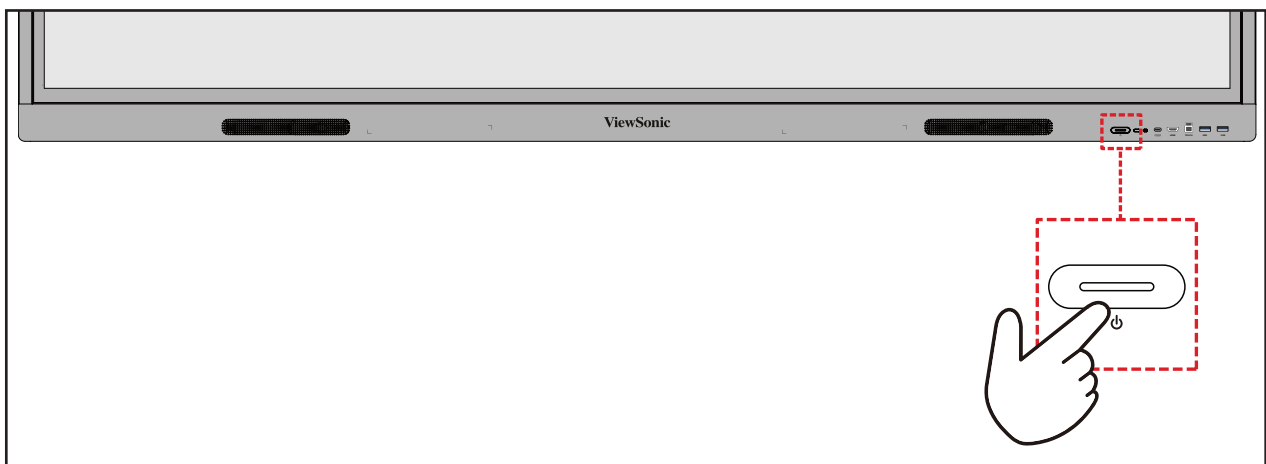
Turning On/Off the Display

1. Make sure the power cord is connected, plugged into a power outlet, and the power switch is in the “on” position.



Note: The power switch is located at the rear of the display.

2. Press the **Power** button to turn on the display.

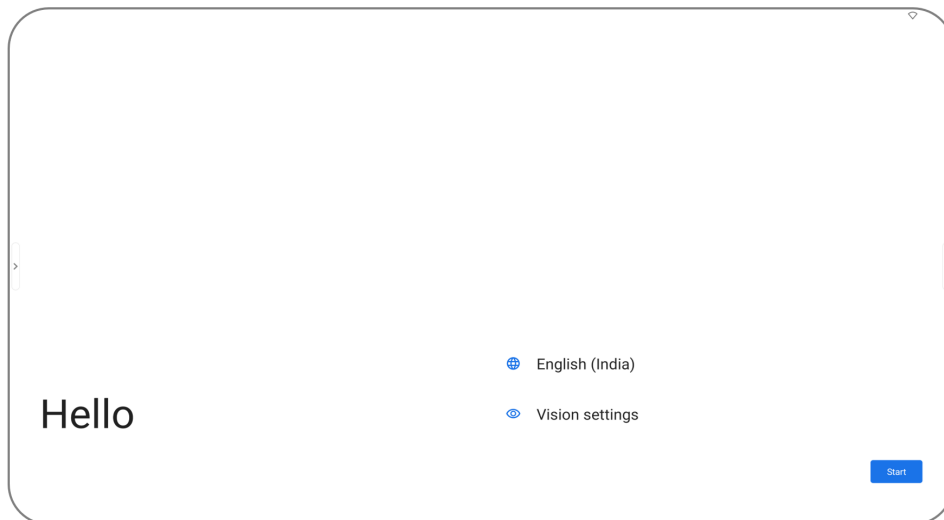


3. To turn the display off, press and hold the **Power** button.

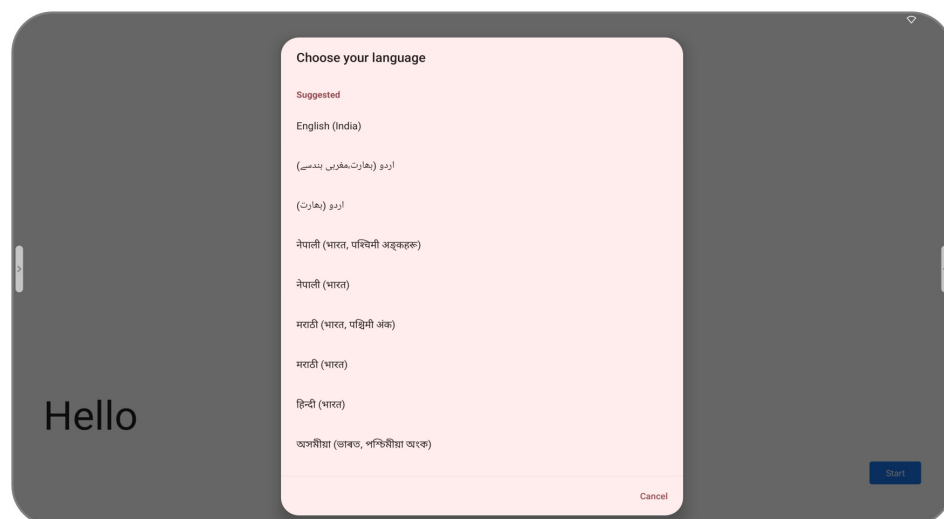
Initial Launch Setup

When you first turn on the display, an initial setup wizard will launch.

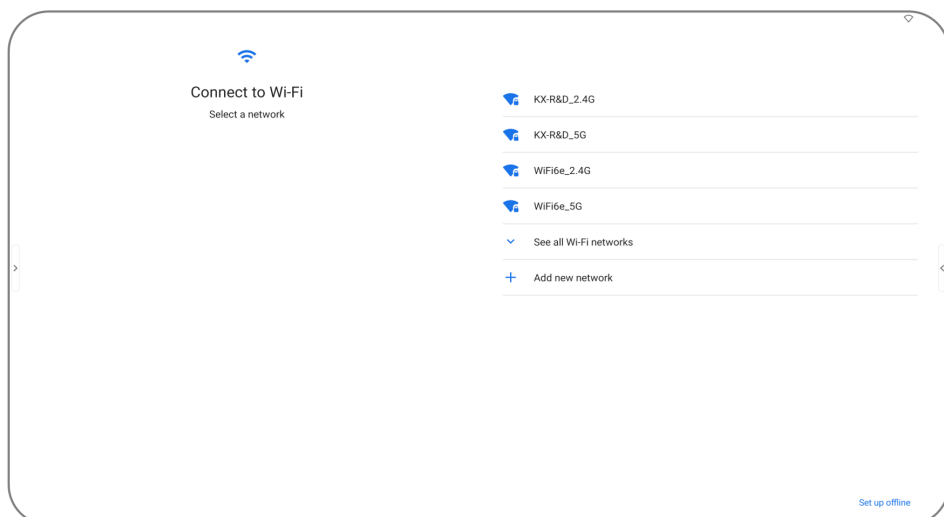
1. Choose your preferred Language.



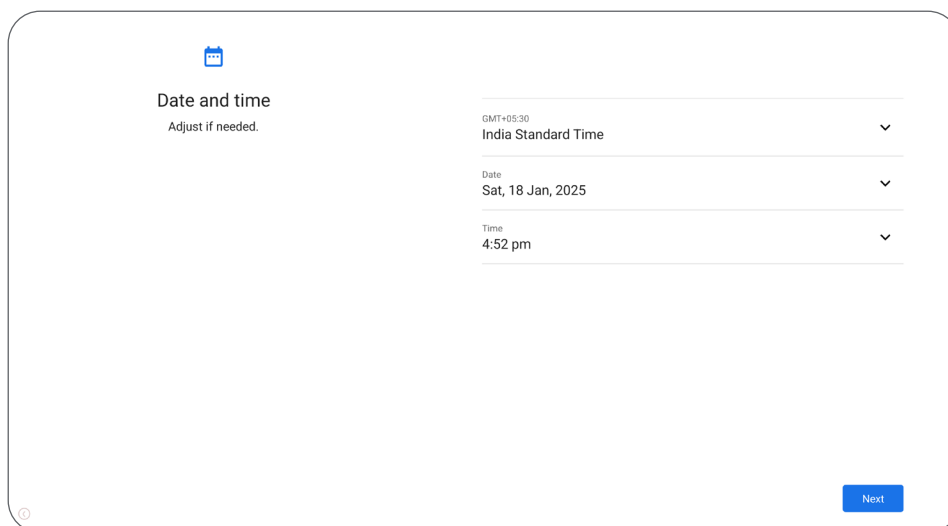
2. Setup and connect to a network.



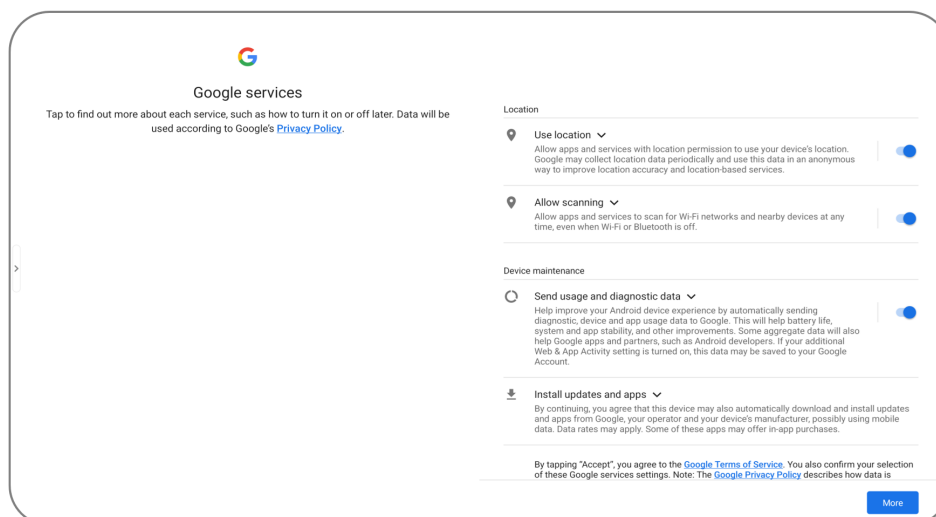
When the following screen appears, please select the back icon in the sidebar.



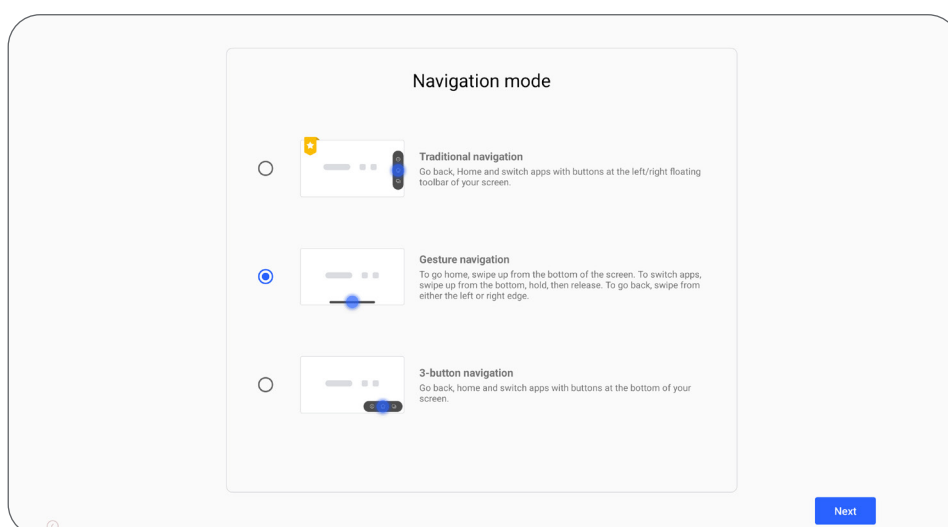
3. Set the Date and time.



4. Accept or decline Google services.



5. Select a Navigation mode.

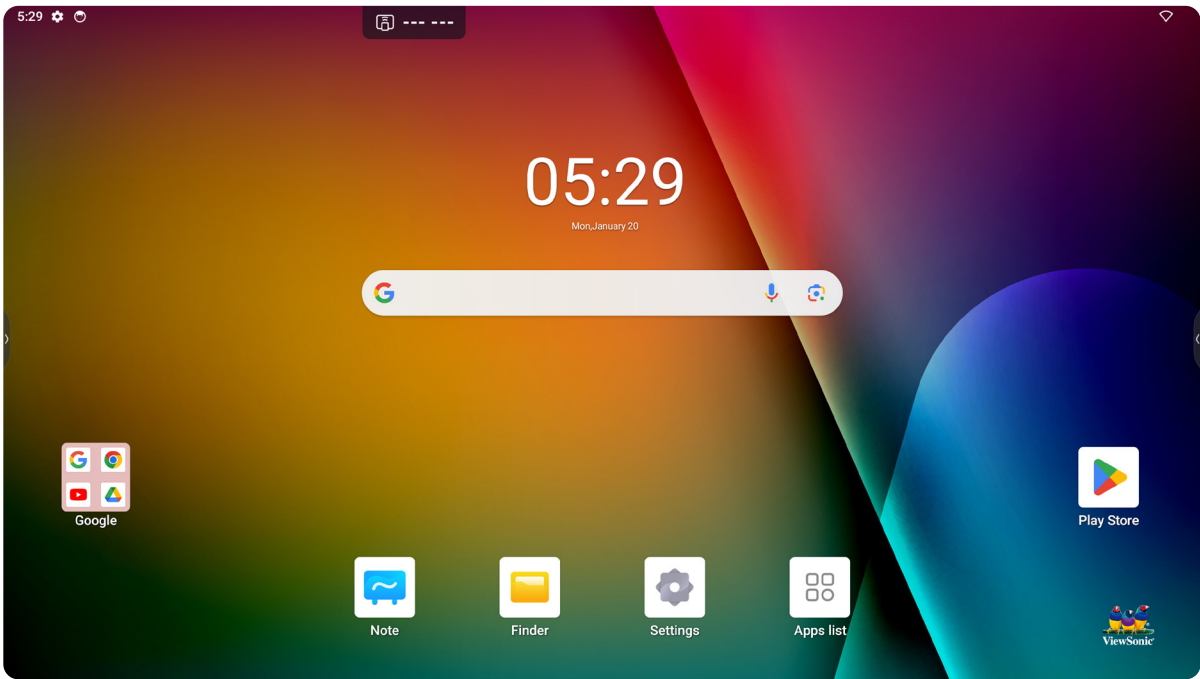


6. Set a PIN to setup a screen lock, or select **Skip** to continue without setting one.

The screenshot shows the 'Set a PIN' screen. At the top left is a blue lock icon and the text 'Set a PIN'. To the right is a grey input field for the PIN. Below the input field, a note states: 'PIN must be at least 4 digits, but a 6-digit PIN is recommended for added security'. Below this note is a blue link that says 'Screen lock options'. In the center of the screen is a numeric keypad with buttons for digits 1 through 9, 0, a backspace icon, and a red arrow icon. Each digit button also displays its corresponding letters (e.g., 2 has ABC, 3 has DEF). At the bottom right of the screen are two buttons: 'Skip' in blue text and 'Next' in grey text.

Home Screen

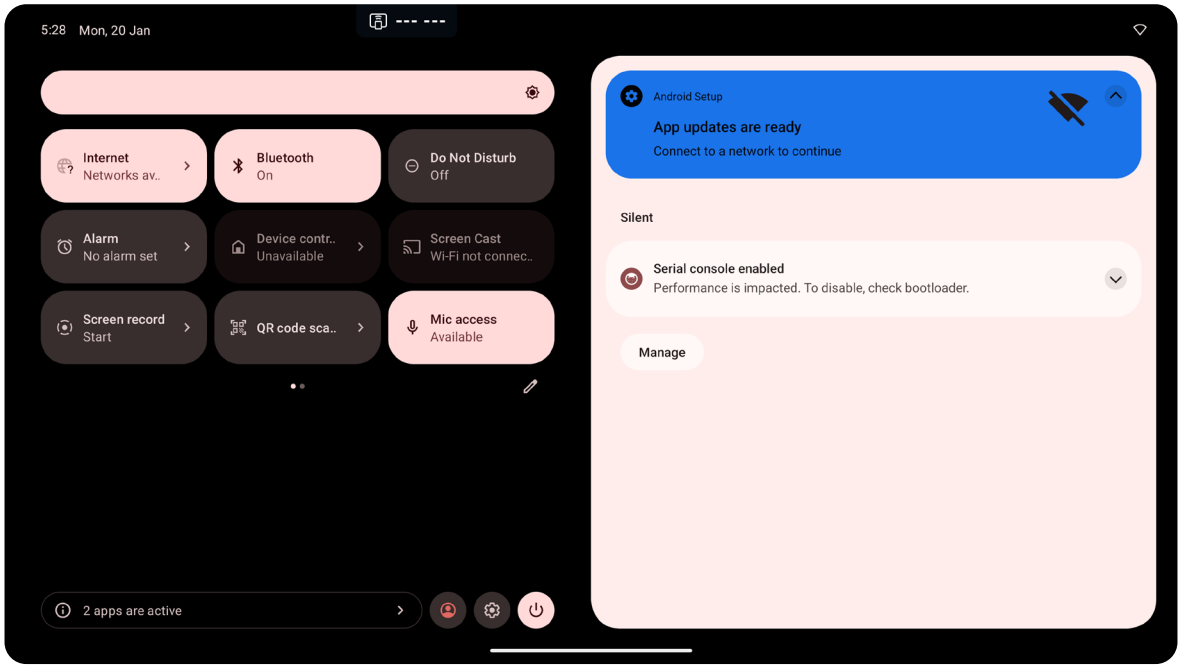
After the display is turned on and setup, the Home Screen will load.

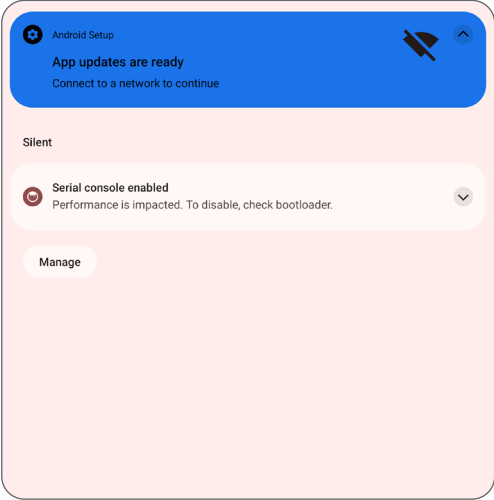


Item	Description
 Note	Digital whiteboarding application.
 Finder	Takes you to the file manager.
 Settings	Takes you to the system settings.
 App list	View all installed applications.
 Google	Google’s applications folder.
 Play Store	Google’s official online application store.

Item	Description
 Cast	Cast your screen through Bytello Share.

Control and Notification Panel



Item	Description
Control Panel	Access frequently used settings and tools.
Notification Panel	Receive and manage system and application notifications. 

Toolbar

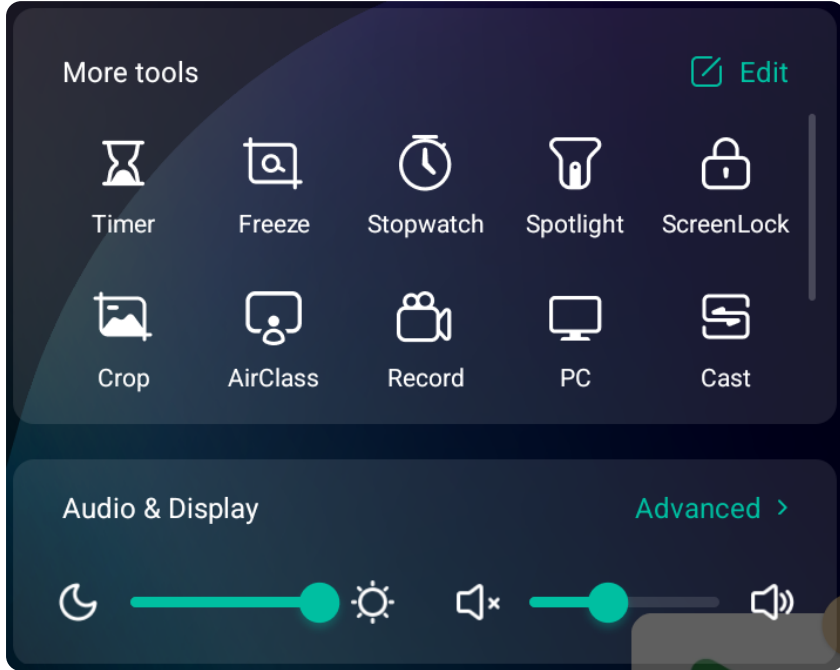
The Toolbar is where your applications and tools can be found. Trigger icons are on the edge of the launcher for quick access.



To launch an application or tool:

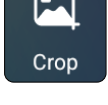
1. Select a Toolbar trigger icon.
2. Select the application or tool icon.

Item	Description
 Back	Return to the previous operation screen. Note: Only for the ViewBoard source.
 Home	Return to the Home Screen.
 Recent	Display all applications that are currently open.
 All Apps	View all installed applications.

Item	Description
 Mark	Annotate the overlay of any input source.
 Menu	Access the General Settings and select the input source.
 More	Access frequently used applications, settings, and tools.  Note: The screen brightness and volume can be adjusted here.

More Tools



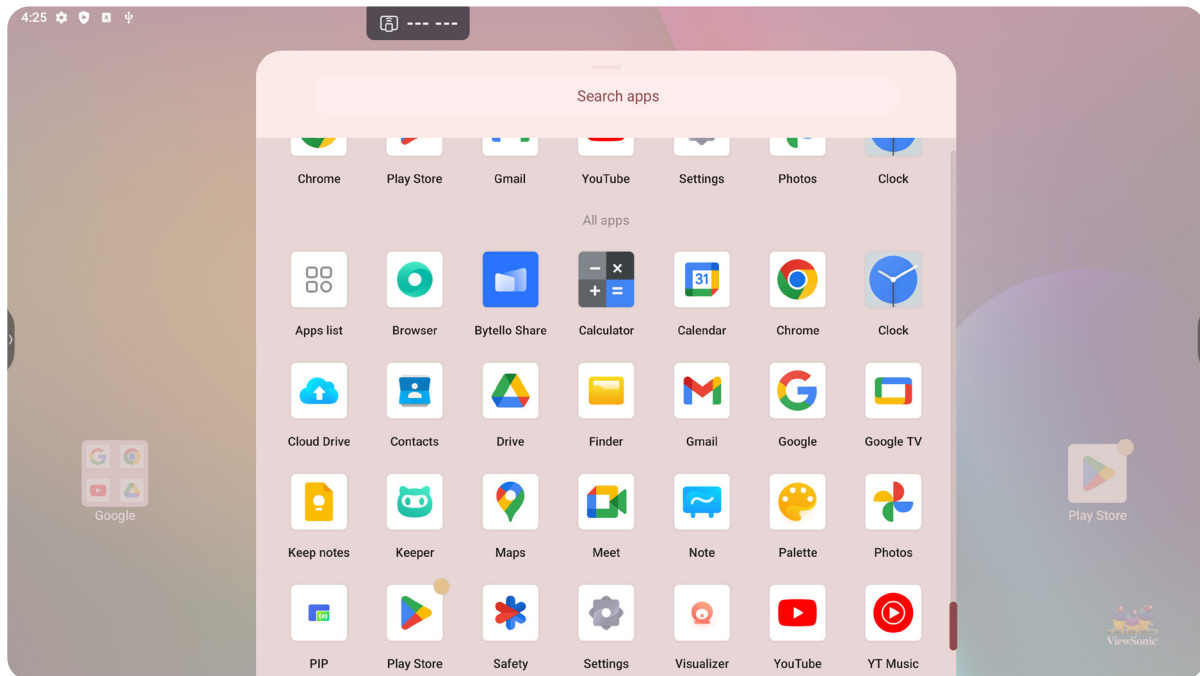
Item	Description
 Timer	A countdown timer with an optional alarm setting. Touch and swipe to adjust the numeric values, then click Start. At any time, the countdown timer can be paused, resumed, or reset.
 Freeze	Convert the currently displayed content into a still image; then you can zoom in, zoom out, go back to full screen, and exit.
 Stopwatch	Tapping Start will initiate the stopwatch. At any time, the stopwatch can be paused, resumed, split, or reset.
 Spotlight	Concentrates the screen backlight in a designated area and the rest is dark. You can adjust the size of the spot area, or adjust the darkness of the rest of the area.
 Screen Lock	Lock the display's screen for added security.
 Crop	Take a screenshot of the current screen and resize.

Item	Description
 AirClass	Set voting topics for discussion. Note: AirClass requires a network connection to be used.
 Record	Record, view, and save on-screen content.
 PC	Switch to the PC input source.
 Cast	Receive Bytello Share laptop screens (Windows/Mac/Chrome) and mobile (iOS/Android) users' screens, photos, videos, annotations, and camera(s).
Calculator	Make mathematical calculations.
PIP	Picture-in-Picture. Split the screen into two parts, a main window and an inset window. User can specify the input source for each screen.

Applications

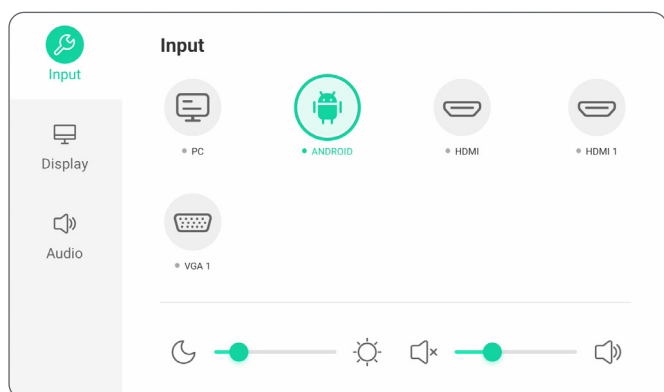
Much like any smart phone or tablet you can install several different applications from the installed Google Play Store.

Applications can be accessed from the Toolbar, directly from the Home Screen, or by selecting the **All Apps** icon.

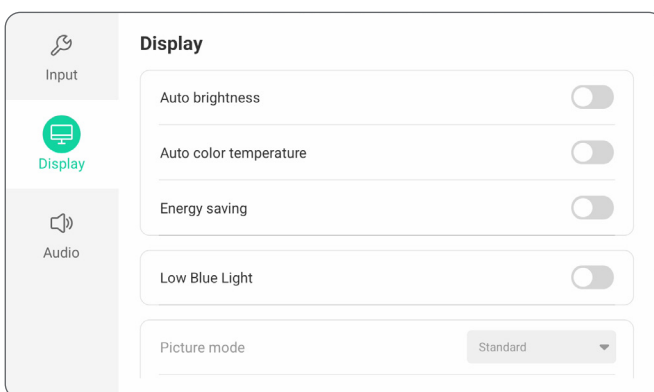


On-Screen Display Menu - General Settings

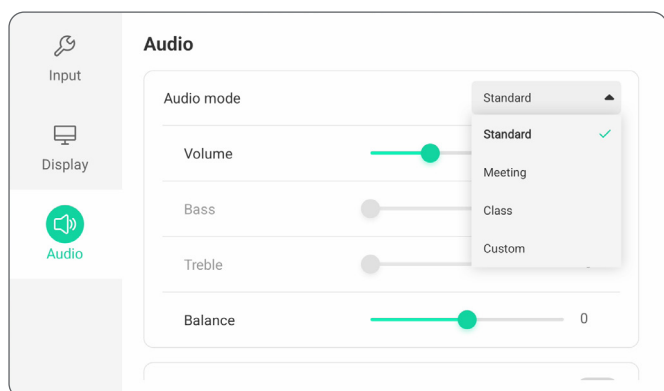
Access **Input**, **Display**, **Audio** and other general settings.



Input Menu

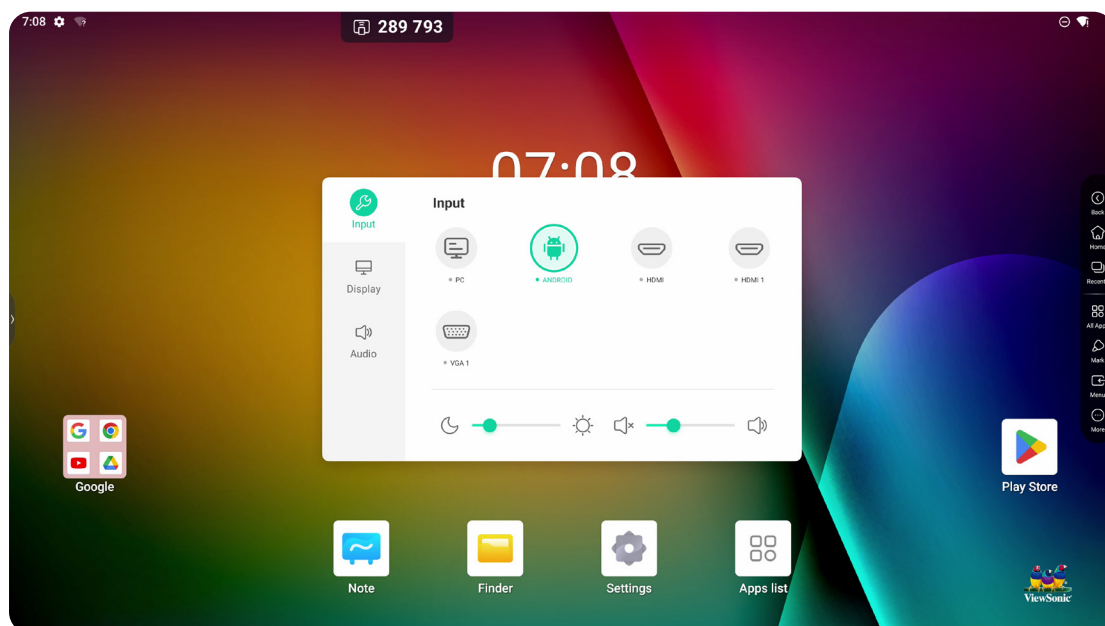


Display Menu

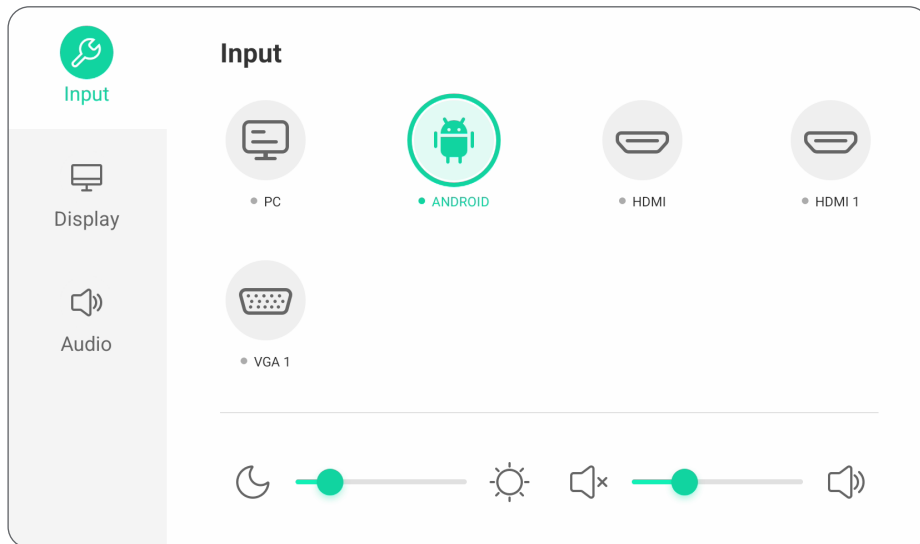


Audio Menu

Open the On-Screen Display Menu by pressing **INPUT** on the remote control or touching the **Menu** icon in the Toolbar.



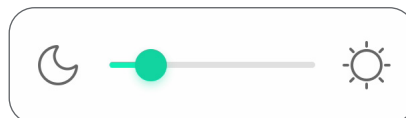
Input



To select an input source:

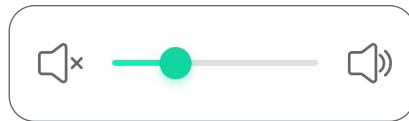
1. Press **INPUT** on the remote control or touch the **Menu** icon of the Toolbar to display the Input Settings menu.
2. Press the **Navigation** (↑/↓/←/→) buttons on the remote control to select the input source.
Note: The PC source will only be visible when a slot-in computer is installed.
3. Press **ENTER** on the remote control, or touch the input source.
4. Press **BACK** on the remote control, or touch a blank area outside of the menu to exit.

To adjust the brightness:



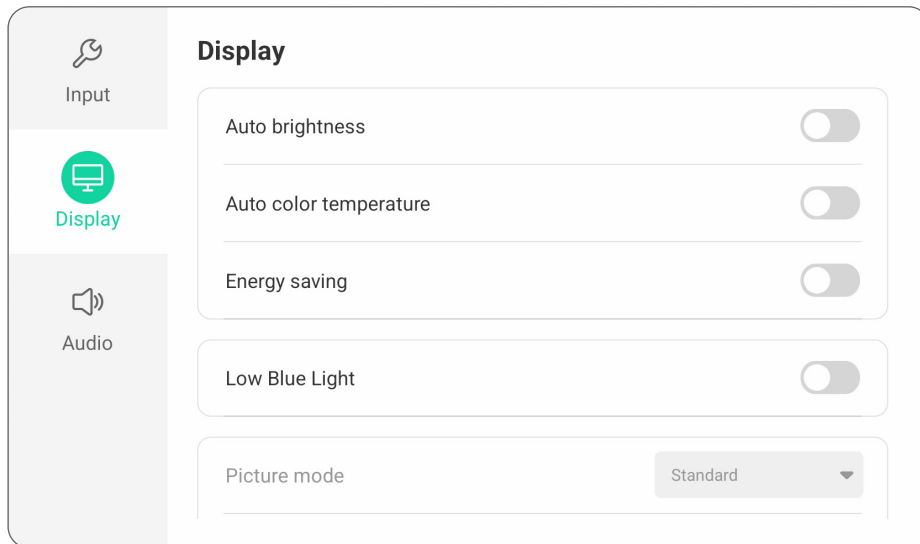
1. Press **INPUT** on the remote control or touch the **Menu** icon of the Toolbar to display the Input Settings menu.
2. Touch and drag the brightness slider directly to adjust the brightness value.
3. Press **BACK** on the remote control, or touch a blank area outside of the menu to exit.

To adjust the volume:



1. Press **INPUT** on the remote control or touch the **Menu** icon of the Toolbar to display the Input Settings menu.
2. Touch and drag the volume slider directly to adjust the value, or press **VOL+ / VOL-** on the remote control.
3. Press **BACK** on the remote control, or touch a blank area outside of the menu to exit.

Display



To select an input source:

1. Press **INPUT** on the remote control or touch the **Menu** icon of the Toolbar to display the Input Settings menu. Then select the **Display** tab.
2. Press the **Navigation** (↑/↓/←/→) buttons on the remote control to select the menu option you want.
3. Press **ENTER** on the remote control to confirm or press the **Navigation** (←/→) buttons to adjust the menu option. Additionally, you can directly touch the menu option to make adjustments.
4. Press **BACK** on the remote control, or touch a blank area outside of the menu to exit.

Display Menu Options

Item	Description	
Auto Brightness	Automatic brightness adjustment. Adjusts maximum brightness according to the ambient light levels.	
Auto Color Temperature	Automatic color temperature adjustment. The color temperature values will adjust according to the ambient light level.	
Energy Saving	Enable to reduce power consumption.	
Low Blue Light	Adjusts the filter that blocks high-energy blue light for a more comfortable viewing experience.	
Picture Mode	Select a predefined picture setting.	
	Standard	Default picture mode.
	Bright	Maximizes the brightness of the display. This mode is suitable for environments where extra-high brightness is required (e.g., well-lit rooms).
	Soft	A high brightness level with lower contrast level.
	Custom	Customize the picture settings.
Color Temperature	Select or customize color temperature values.	
Advanced Settings	Pixel Shift	Reduce the possibility of screen burn-in. This setting allows the user to program the time between movements of the picture in minutes. Note: Not available for Android setting.
	Dynamic Contrast (DCR)	Automatically detects the image signal and intelligently controls the backlight brightness and color to improve on the ability to make the black blacker in a dark scene, and make the white whiter in a bright environment.

Low Blue Light Filter and Eye Health

The low blue light filter blocks high-energy blue light for a more comfortable viewing experience.

Calculating Breaks

When viewing screens for extended periods, it is recommended to take periodic breaks from viewing. Short breaks of at least 10 minutes are recommended after one hour of continuous viewing.

Taking shorter, more frequent breaks are generally more beneficial than longer, less frequent breaks.

Focus Fatigue (20-20-20 Rule)

To reduce the risk of eye fatigue by constantly looking at the screen, look away from the screen at least every 20 minutes and gaze at a distant object (at least 20 feet away) for at least 20 seconds.

Looking at Distant Objects

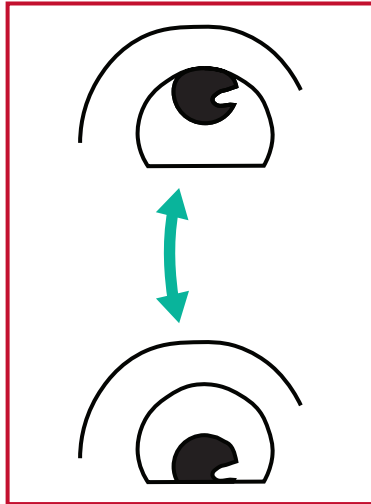
While taking breaks, users can further reduce eye strain and dryness by focusing on objects that are further away from them for 10-15 seconds, then gaze at something up close for 10-15 seconds. Repeat this up to 10 times. This exercise reduces the risk of your eyes' focusing ability to "lock up" after prolonged computer work.

Eye and Neck Exercises

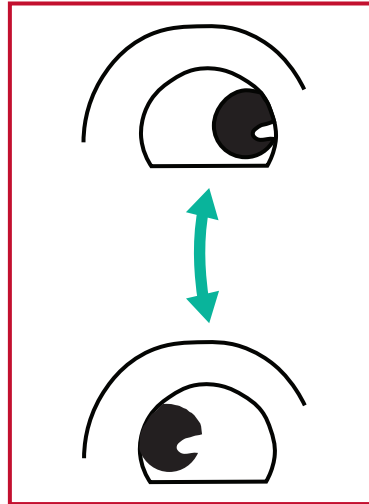
Eye Exercises

Eye exercises can help minimize eye strain. Slowly roll your eyes to the left, right, up, and down. Repeat as many times as needed.

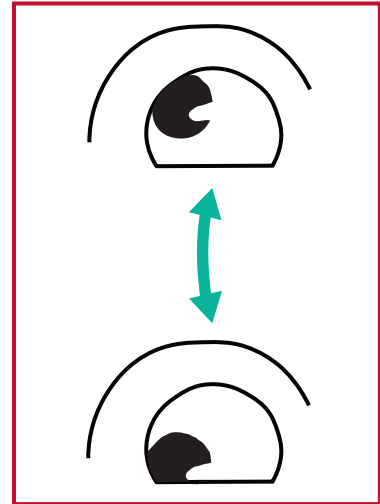
Exercises for the eyes



(1) Keep the body and the head upright. Move the eyes up to look at the ceiling, then turn down to look at the floor.



(2) Move the eyes left and right slowly to look at objects on the two sides.

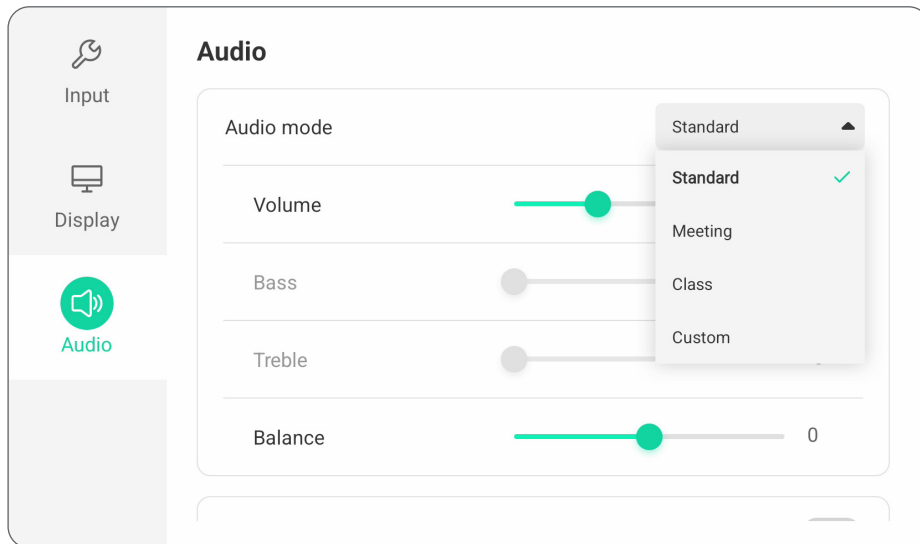


(3) Move the eyes to look at objects at the right upper direction and then right lower direction. Repeat for the left upper and left lower directions.

Neck Exercises

Neck exercises can also help minimize eye strain. Relax your arms and let them hang at your sides, bend forward slightly to stretch the neck, turn your head to the right and to the left. Repeat as many times as needed.

Audio



To select an input source:

1. Press **INPUT** on the remote control or touch the **Menu** icon of the Toolbar to display the Input Settings menu. Then select the **Audio** tab.
2. Press the **Navigation** (**↑/↓/←/→**) buttons on the remote control to select the menu option you want.
3. Press **ENTER** on the remote control to confirm or press the **Navigation** (**←/→**) buttons to adjust the menu option. Additionally, you can directly touch the menu option to make adjustments.
4. Press **BACK** on the remote control, or touch a blank area outside of the menu to exit.

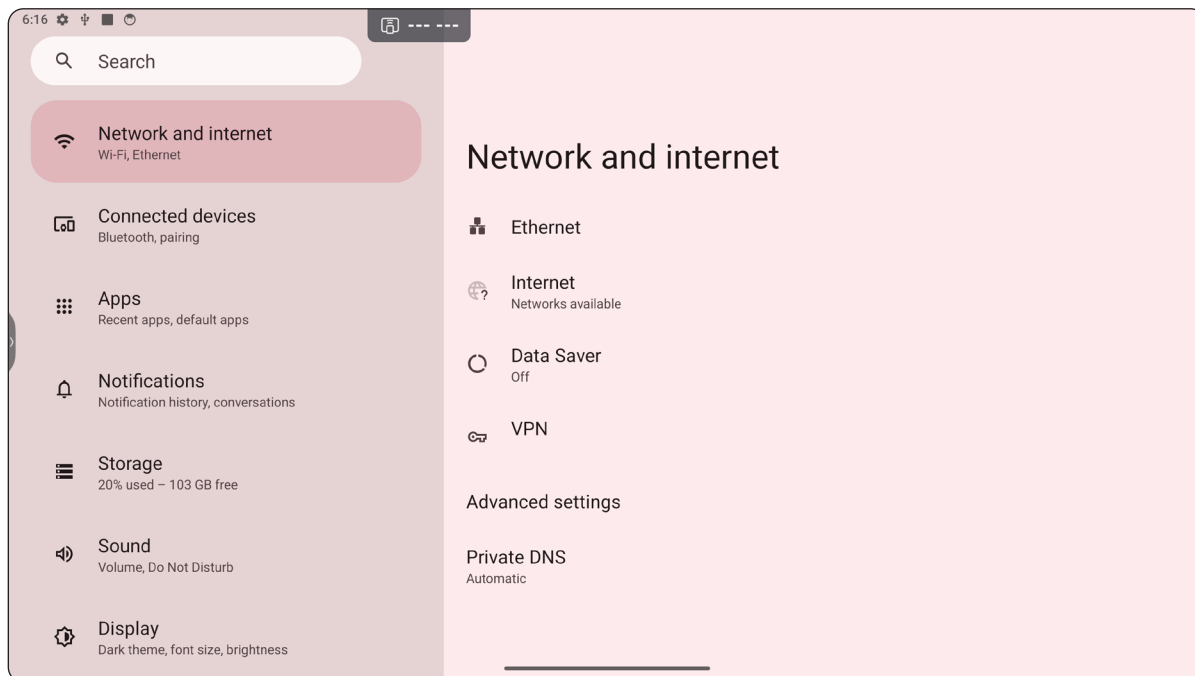
Audio Menu Options

Item	Description	
Audio Mode	Select a predefined audio setting.	
	Standard	Default audio mode.
	Meeting	Ideal for meetings. Higher bass, lower treble levels.
	Class	Ideal for the classroom. Lower base and treble levels.
	Custom	Customize the audio settings.
Volume	Increase or decrease the display's volume level.	
Bass	Increase or decrease the bass level (lower-pitched sounds).	
Treble	Increase or decrease the treble level (higher-pitched sounds).	
Balance	Adjust the left/right speaker balance.	
Mute	Turn mute on or off.	

ViewBoard Settings

Network and Internet

Check current connection status, set up and manage Wi-Fi, Ethernet, Hotspot and tethering, Data Saver, VPN, and Private DNS settings.

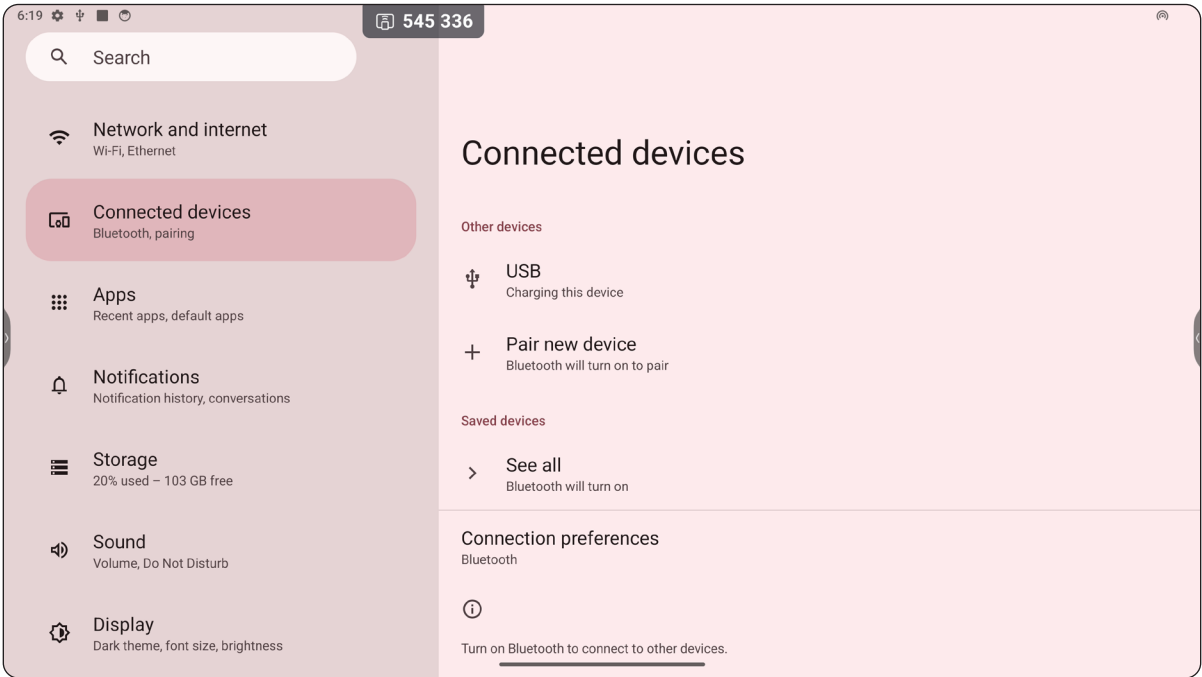


Item	Description	
Internet	Set up and manage a Wi-Fi connection as well as network preferences.	
Ethernet	Set up and manage a wired connection as well as network preferences.	
Data Saver	When enabled, most apps and services will get background data via an internet connection. Note: Active apps will not be affected.	
VPN	Set up and manage Virtual Private Networks.	
Advanced Settings	Hotspot and tethering	Set and share your internet connection with other devices.
Private DNS	Maintain an Automatic Private DNS or set one up manually for security and privacy.	

Note: When Wi-Fi and a wired network are connected at the same time, the system will preferentially use the signal of the wired network, which will cause the Wi-Fi connection to be unavailable. It is recommended to turn on or off the corresponding network settings when using.

Connected Devices

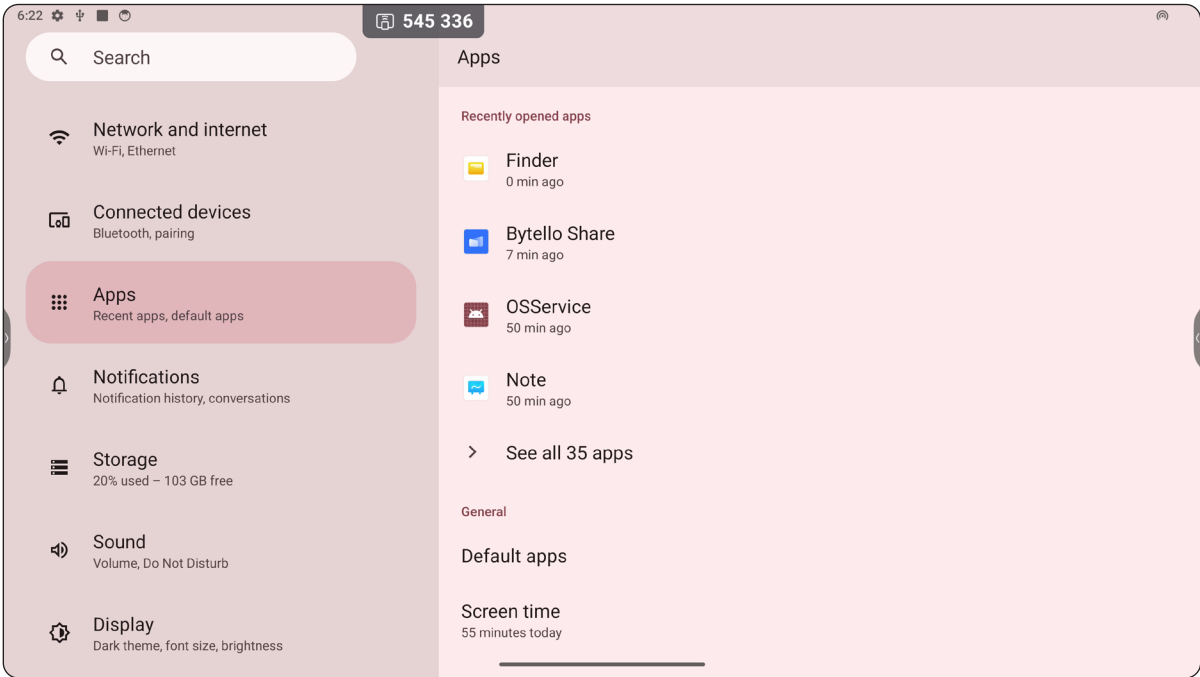
Set up and manage Bluetooth connections and saved devices.



Item	Description
Other Devices	Insert a USB into your laptop, your Android device will get the option of USB charging with Mass Storage.
Pair new device	Enable Bluetooth to search for and connect to a Bluetooth device.
Saved devices	View all previously connected Bluetooth devices. Note: Bluetooth will turn on when a device is selected.

Apps

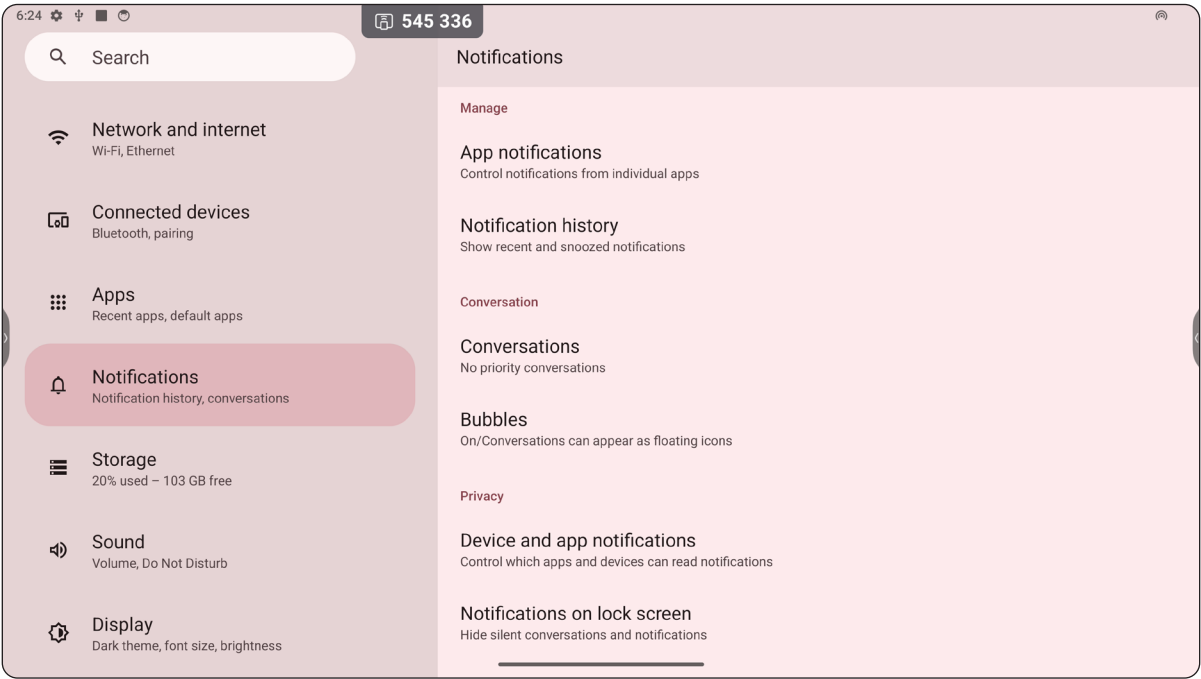
View installed application information.



Item	Description
Recently opened apps	Any recently used applications will be listed here.
Default apps	Set default applications for certain uses (e.g., default web browser application).
Screen time	Displays the total amount of time the ViewBoard has been in use by the day.
Unused apps	Applications that have not been used for a certain period of time will be listed here.
Special app access	Set several access permissions for applications.

Notifications

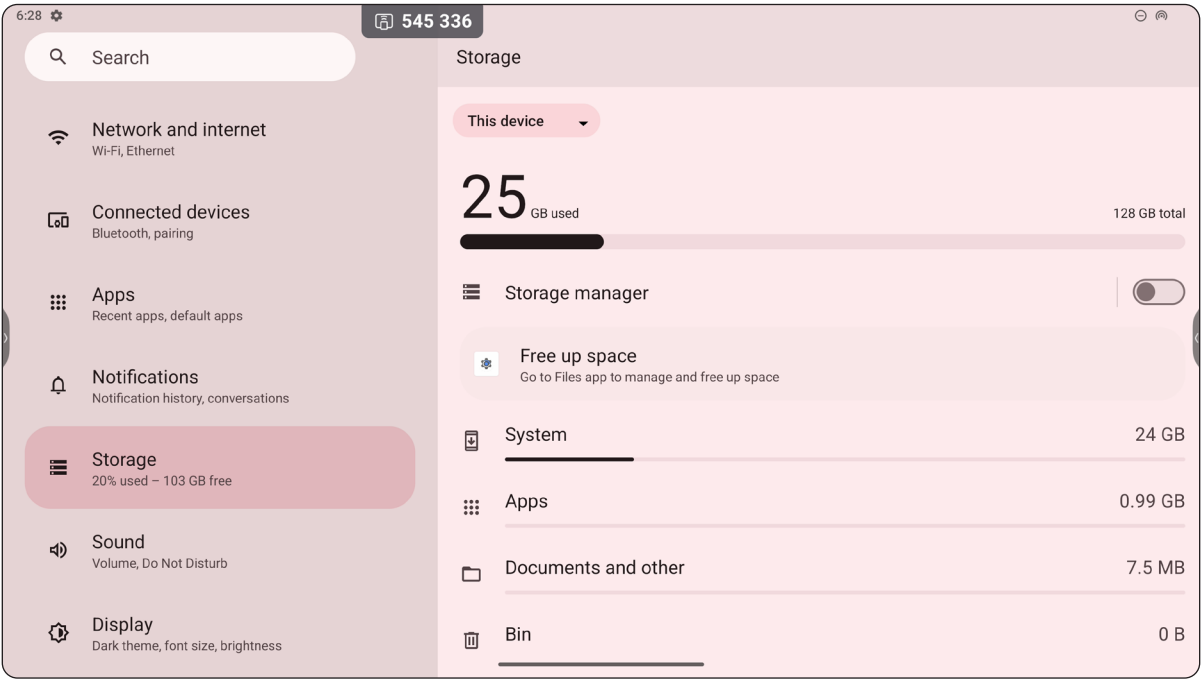
Manage notification settings and preferences.



Item	Description
App notifications	Set up notification settings for individual applications.
Notification history	View recent notifications.
Conversations	Set previously received notifications or messages as priority.
Bubbles	When turned on, conversations can appear as a floating icon on screen.
Device and app notifications	Control which applications and devices can read notifications.
Notifications on lock screen	Choose to show all, some, or no conversations or notifications on the lock screen.
Do not disturb	Set notification preferences for when “Do Not Disturb” mode is turned on.
Hide silent notifications in status bar	When turned on, notifications that have been “silenced” will no longer appear in the status bar area.
Allow notification snoozing	When turned on, notifications can be “snoozed” for a short period of time for applications.
Notification dot on app icon	When turned on, a small dot will appear on the application icon when there is a new notification available.
Enhanced notifications	When turned on, receive suggestions for actions, replies, etc.

Storage

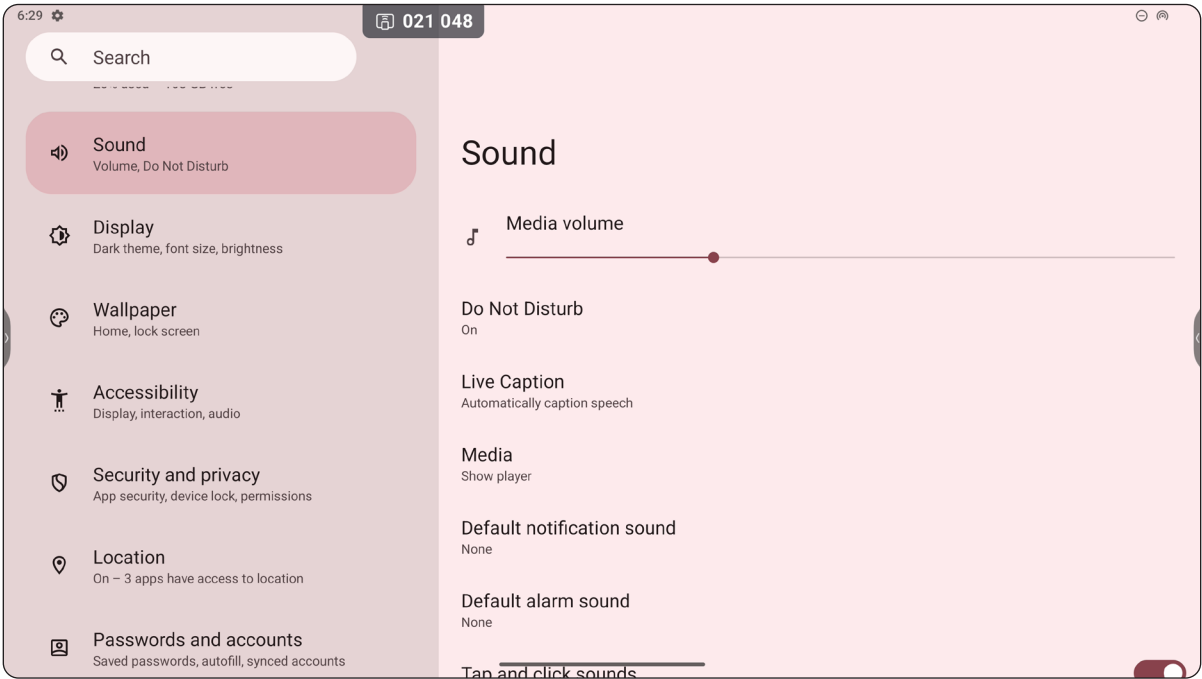
Check the storage status of the ViewBoard.



Item	Description
Storage manager	When turned on, the storage manager will remove backed up photos and videos.
System	View the total storage space of system files.
Apps	View and manage the storage space used by applications.
Documents and other	View and manage the Documents folder.
Games	View and manage the storage space used by gaming applications.
Apps	View and manage the storage space used by applications.
Audio	View and manage the Audio folder.
Videos	View and manage the Video folder.
Images	View and manage the Images folder.

Sound

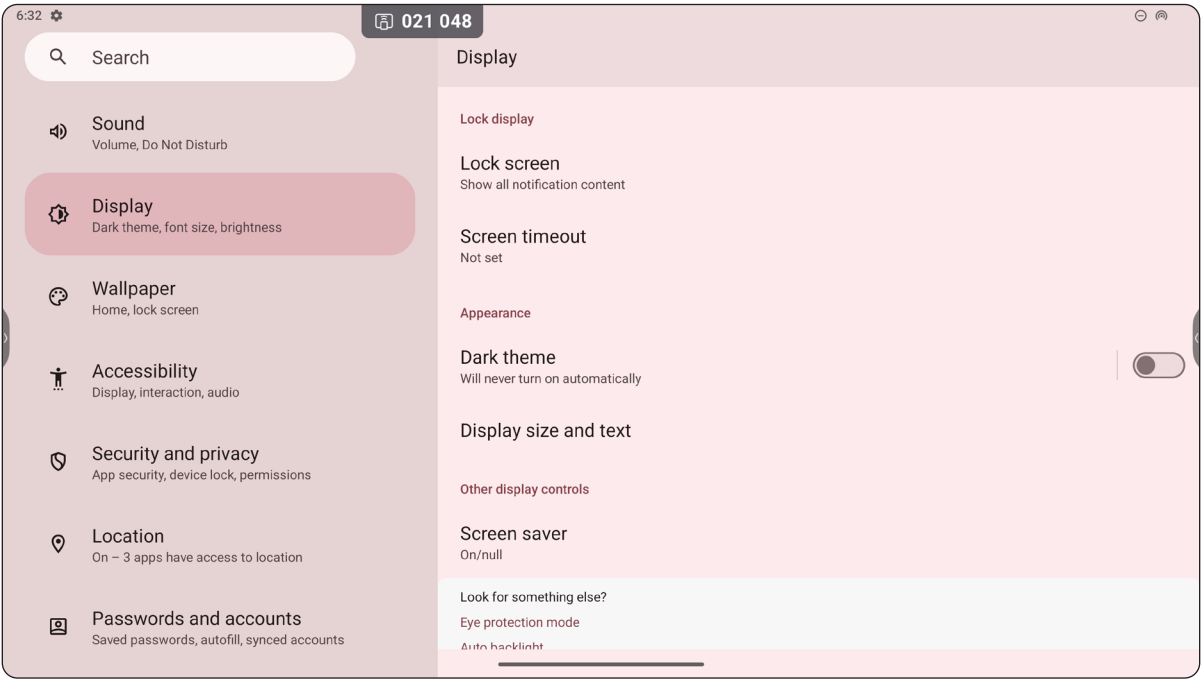
Adjust the volume level and set up sound preferences.



Item	Description
Media volume	Adjust the volume level.
Do Not Disturb	Set sound preferences for when “Do Not Disturb” mode is turned on.
Live Caption	When turned on, automatically caption.
Media	Player status settings.
Default notification sound	Choose the default sound effect for notifications.
Default alarm sound	Choose the default sound for alarms.
Screen locking sound	When turned on, a sound effect will play when the ViewBoard’s screen is locked.
Tap and click sounds	When turned on, a sound effect will play every time a touch input is received.

Display

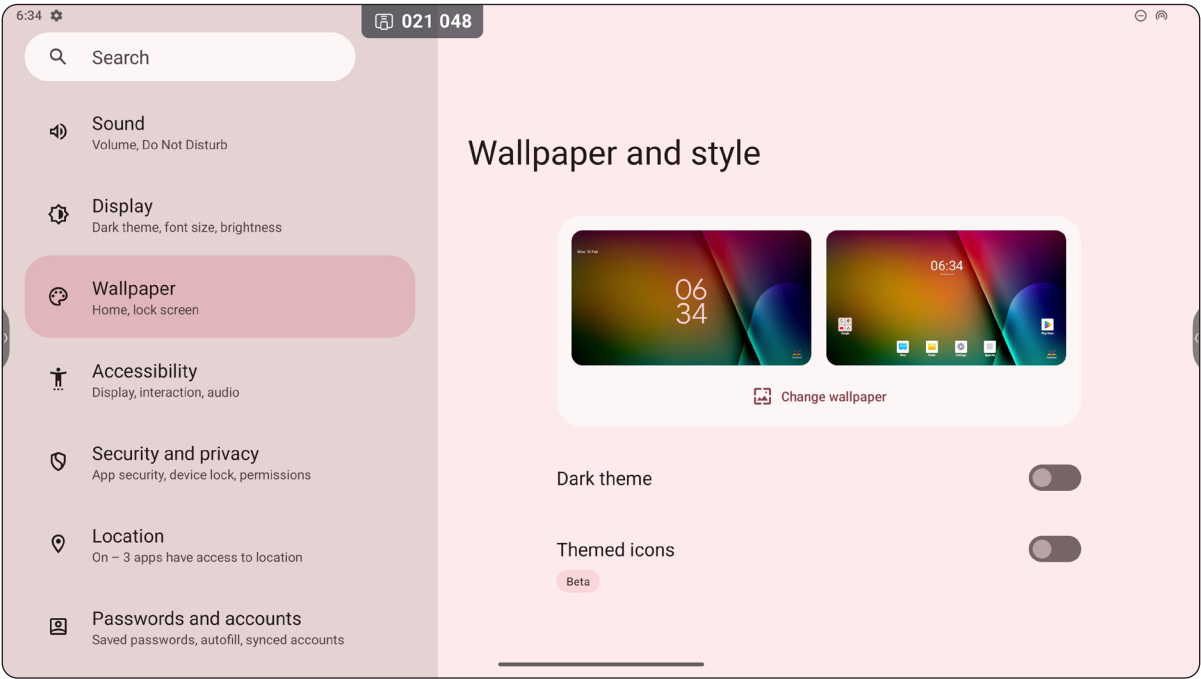
Adjust various display-related settings.



Item	Description
Lock screen	Set lock screen preferences.
Screen timeout	Set when the screen will lock after a period of inactivity.
Dark theme	When turned on, the brighter default background color will be changed to a darker one.
Display size and text	Adjust the overall display size or only the text size.
Screen saver	When turned on, a screen saver will play when the ViewBoard is not in use.

Wallpaper

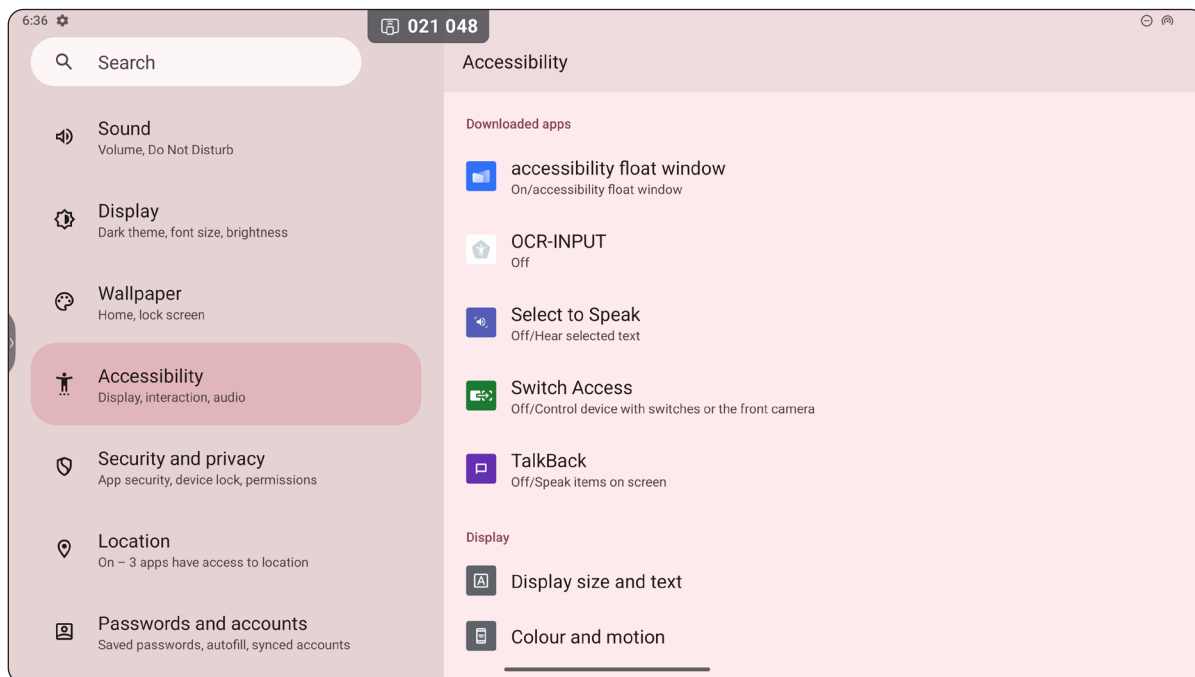
Adjust and personalize the wallpaper and style.



Item	Description
Change wallpaper	Select a wallpaper for the background.
Dark theme	When turned on, the brighter default background color will be changed to a darker one.
Themed icons	Change the icon’s theme.

Accessibility

View and adjust various tools that can help people with visual, auditory, speech, or physical disabilities use the ViewBoard.

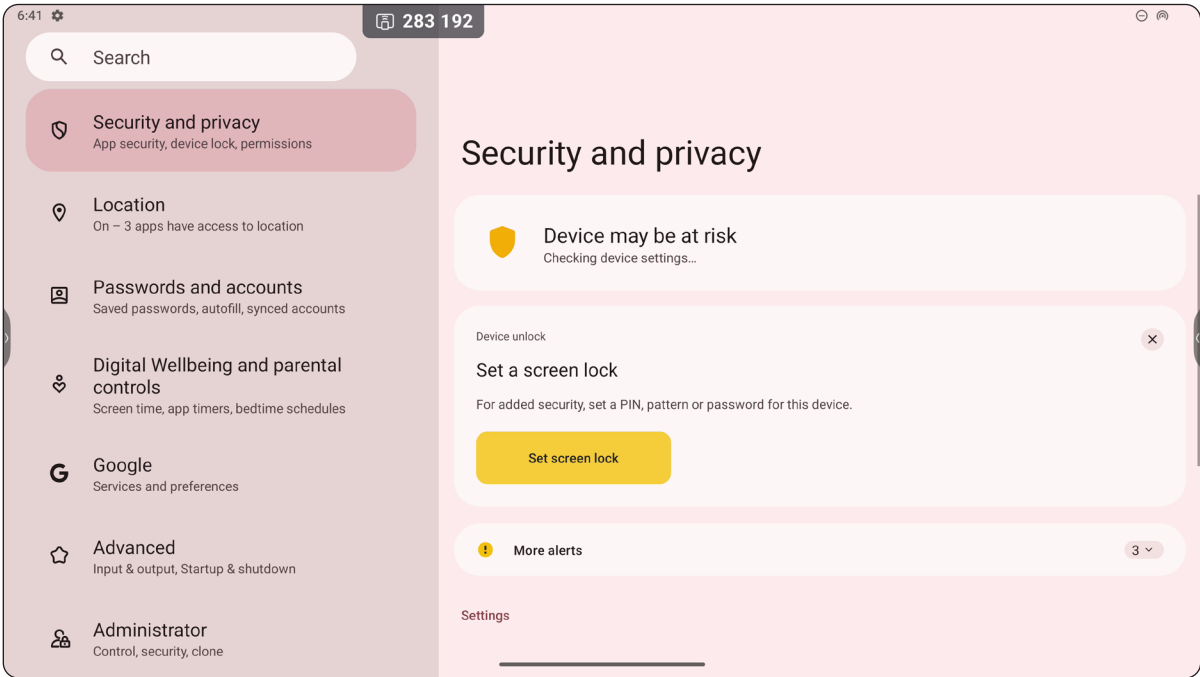


Item	Description
Accessibility float windows	By dynamically adding a hover frame above other apps, the hover window can remain visible or hidden from the lock screen or from the installed app.
OCR-INPUT	Optical Character Recognition Input Device Connection Settings can significantly enhance your Android app by enabling text extraction from images.
Select to Speak	When turned on, certain on-screen items will be read or described aloud when tapped (e.g., text or image).
Switch Access	Allows the use of one or more switch, keyboard, controller, etc. to control the device.
TalkBack	When turned on, device actions will be described by audio so it can be used without looking at the screen.
Display size and text	Adjust the overall display size or only the text size.
Color and motion	Apply color correction and inversion and enlarge the mouse pointer.
Magnification	Zoom in on the screen to enlarge the content.
Accessibility menu	Add a shortcut for a enlarged on-screen menu to control the device.

Item	Description
Timing controls	Adjust how long temporary messages that ask for an action are on screen, enable Autoclick, and adjust the touch and hold delay time.
System controls	Adjust the way to navigate the system.
Live Caption	Set the live caption preferences.
Caption preferences	Turn on captions and adjust the size and style.
Audio description	When turned on, an audio description of what is happening on screen in supported movies and shows will be given.
Audio adjustment	Combine audio channels into a single mono channel.
Accessibility Shortcuts	Adjust the shortcut settings and availability on the lock screen.
Text-to-Speech output	When set up, text can be read out loud.

Security and Privacy

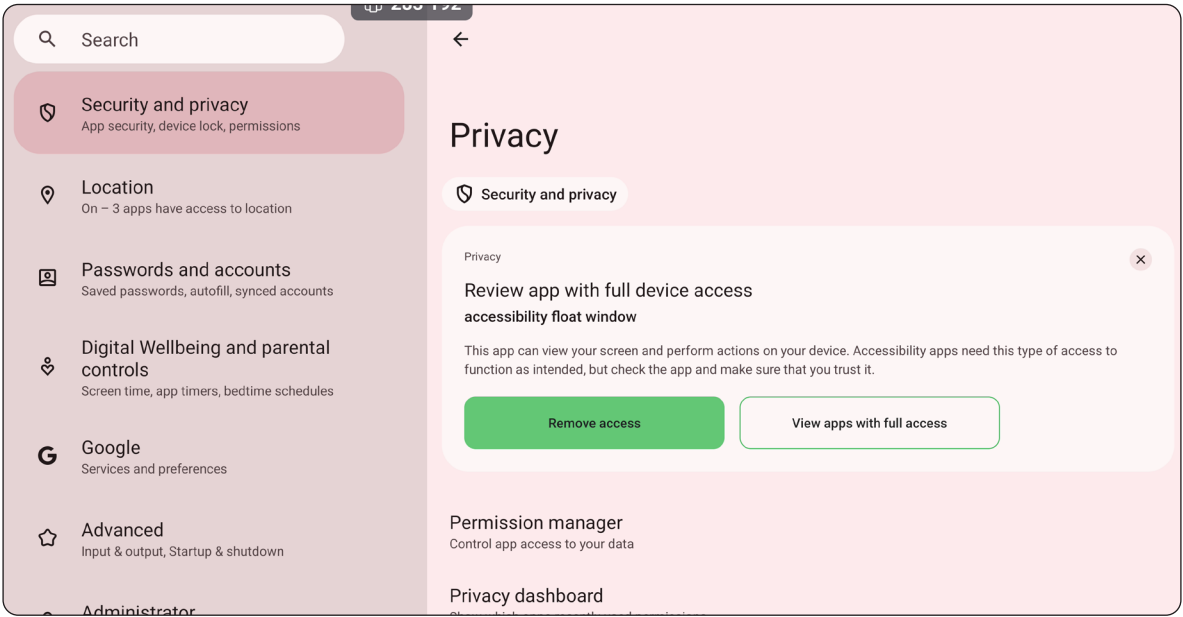
Review and adjust security and privacy settings.



Item	Description
Set a screen lock	For added security, set a PIN or password for this device.
More alerts	Add a Google account and check for security updates.
App security	Regularly check the installed applications and device for any harmful behavior.
Device unlock	Display whether the device is locked.
Account security	Security settings for Google accounts. Note: A Google account needs to be added first.
Device finders	Some settings, such as find my device and system updates, won't work until you add a Google account.
System and updates	Check for system updates.
Privacy	Check and manage current privacy settings.
More security and privacy	View and adjust various security related settings.

Privacy

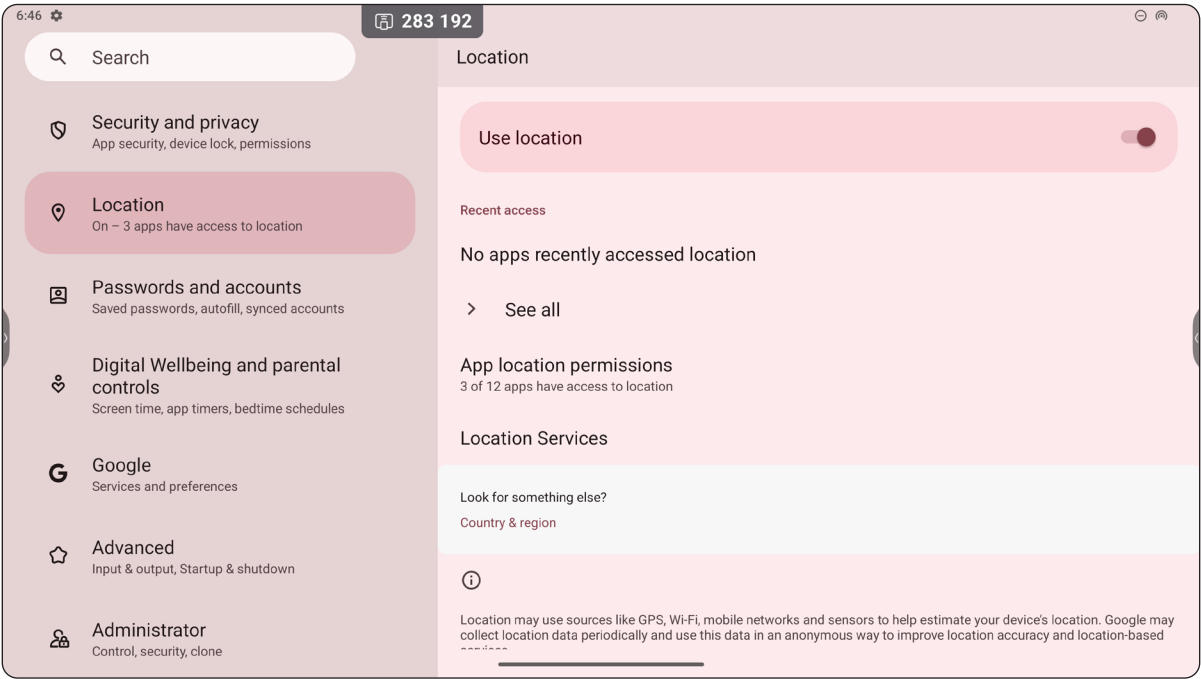
Review and manage privacy settings.



Item	Description
Permission manager	Control application access to your data.
Privacy dashboard	View which applications recently used permissions.
Ads	Manage advertisement personalization.
Health Connect	Manage app access to health data.
Data sharing updates for location	Review apps that changed the way that they may share your location data.
Camera access	Allow or disallow camera access for applications or services.
Microphone access	Allow or disallow microphone access for applications or services.
Show clipboard access	When turned on, a message will appear when applications access something (e.g., text, image, etc.) that has been copied.
Show passwords	When turned on, characters will be displayed briefly as a password is being inputted.
Location access	For apps and services.
Activity controls	Choose the activities and info that you allow Google to save.

Location

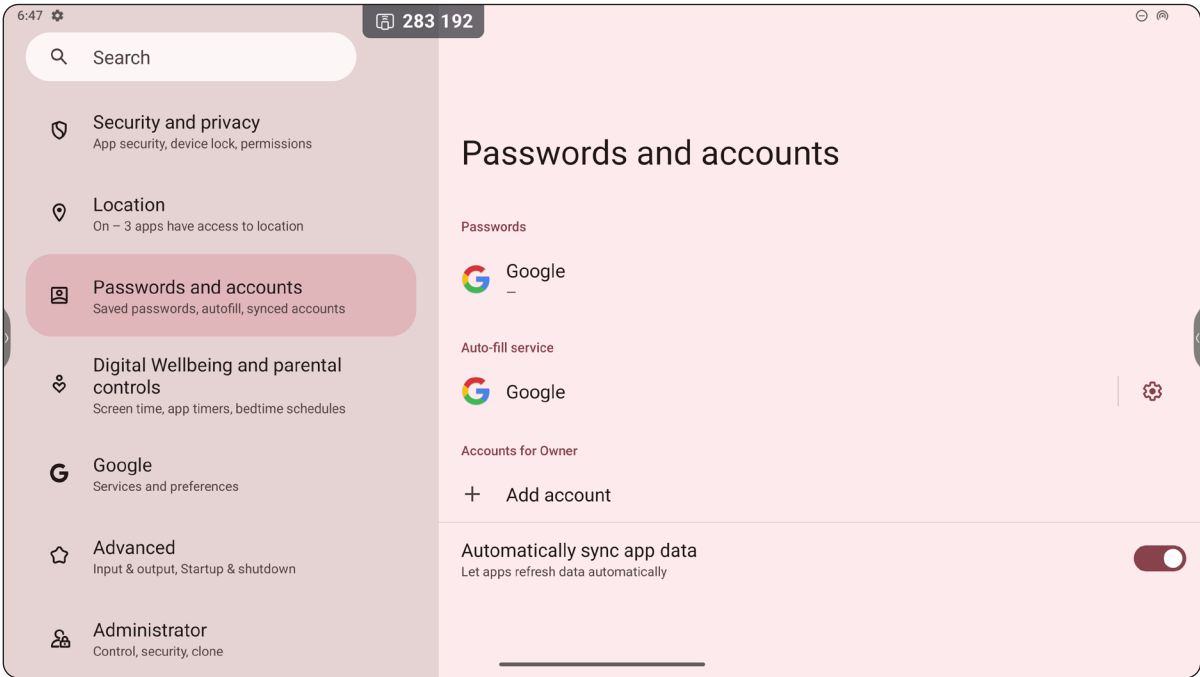
Review and manage location settings.



Item	Description
Use location	When turned on, the location of the device will be accessible to applications.
Recent access	Review which applications recently accessed the device’s location.
App location permissions	Review which applications have permission to access the device’s location.
Location services	Turn on or off various alerts, services, and scanning related to location and location accuracy.

Passwords and Accounts

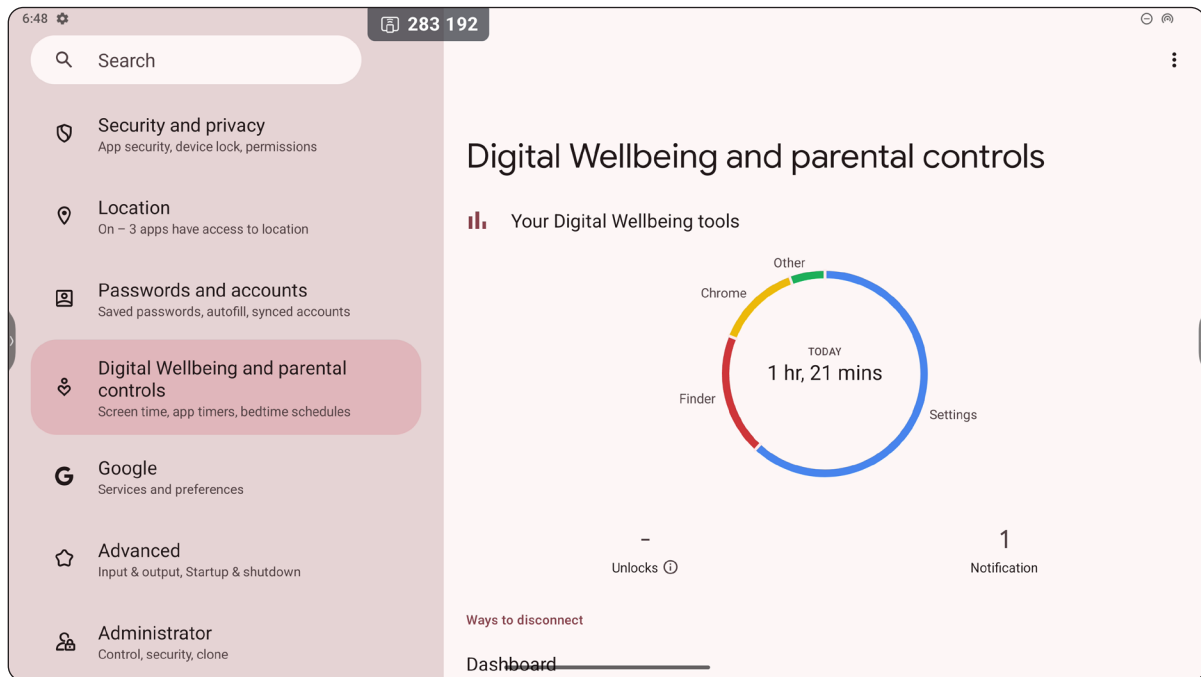
Review saved passwords, select auto-fill services, and add accounts.



Item	Description
Passwords	Review saved passwords.
Auto-fill service	Select which auto-fill service to use if any.
Accounts for Owner	Add or remove accounts.
Automatically sync app data	When enabled, applications can refresh data automatically.

Digital Wellbeing and Parental Controls

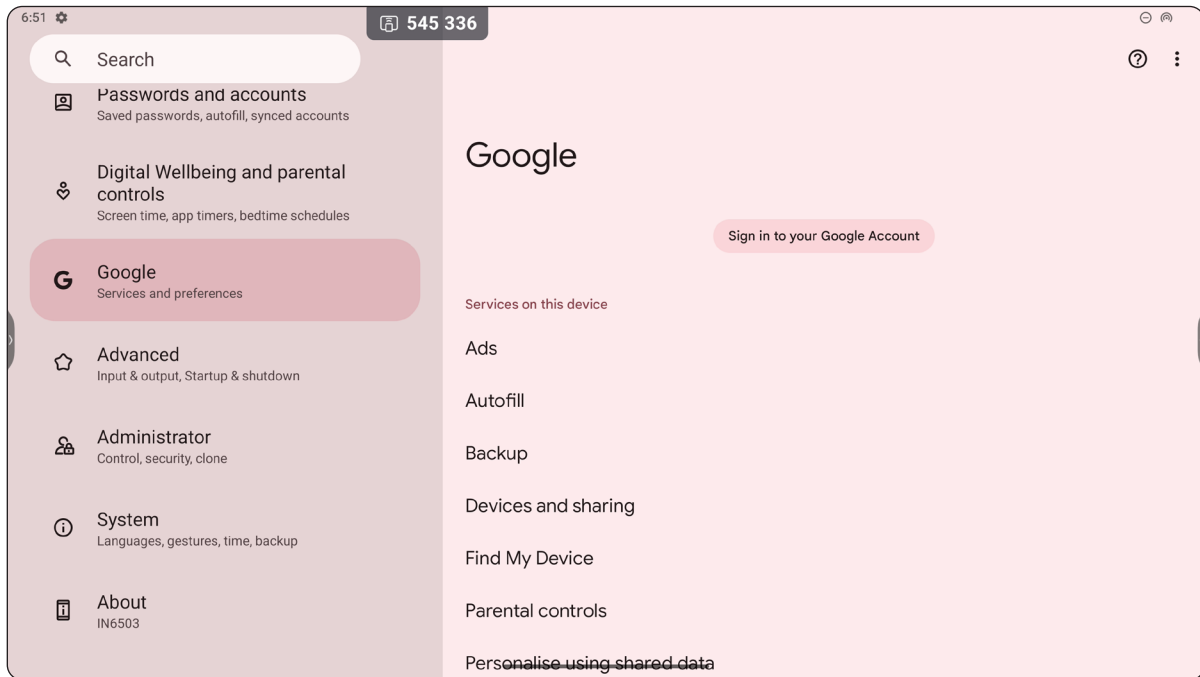
Review the ViewBoard's usage time, and set up various tools to promote a better balance with the device.



Item	Description
Your Digital Wellbeing tools	A brief overview of device usage, unlocks, and notifications.
Dashboard	Review screen time, number of notifications, and number of device unlocks.
Bedtime mode	When enabled, only calls from starred contacts, repeat callers and alarms can reach you.
Focus mode	When enabled, applications can refresh data automatically.
Manage notifications	App notifications, there are four options as below: Most recent, most frequent, all apps and turned off.
Do Not Disturb	Set notification preferences for when “Do Not Disturb” mode is turned on.
Show icon in the app list	Set the icon show or not in the app list.
Parental controls	Add content restrictions and set other limits to help your child balance their screen time.

Google

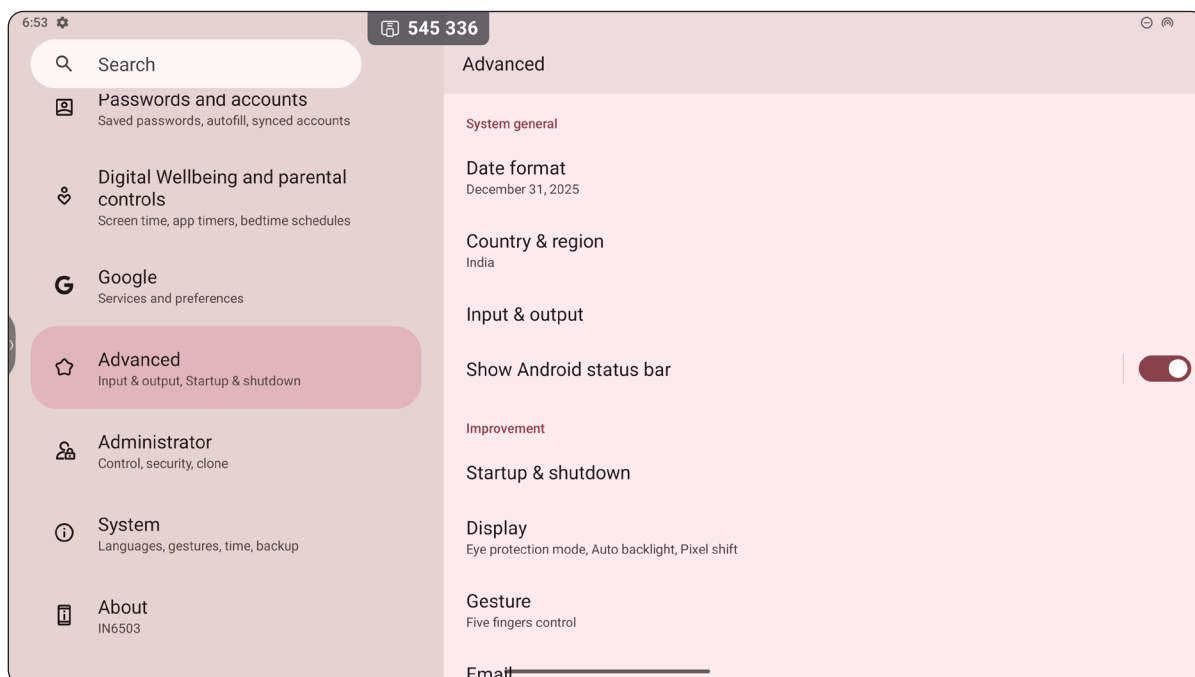
Review Google services and set up preferences.



Item	Description
Ads	Manage advertisement personalization.
Auto-fill	Review screen time, number of notifications, and number of device unlocks.
Backup	With a Google account, passwords and other information can be filled in automatically.
Devices and sharing	Set Cast and device sharing options.
Find My Device	Locate the ViewBoard remotely.
Parental controls	Set up parental controls with Google's Family Link application.
Personalize using shared data	Allow or disallow Google to use the installed applications' data for diagnostics and recommendations.
Set up and restore	Set up a nearby device or a work profile.
Settings for Google apps	Review settings for Google-specific applications.

Advanced

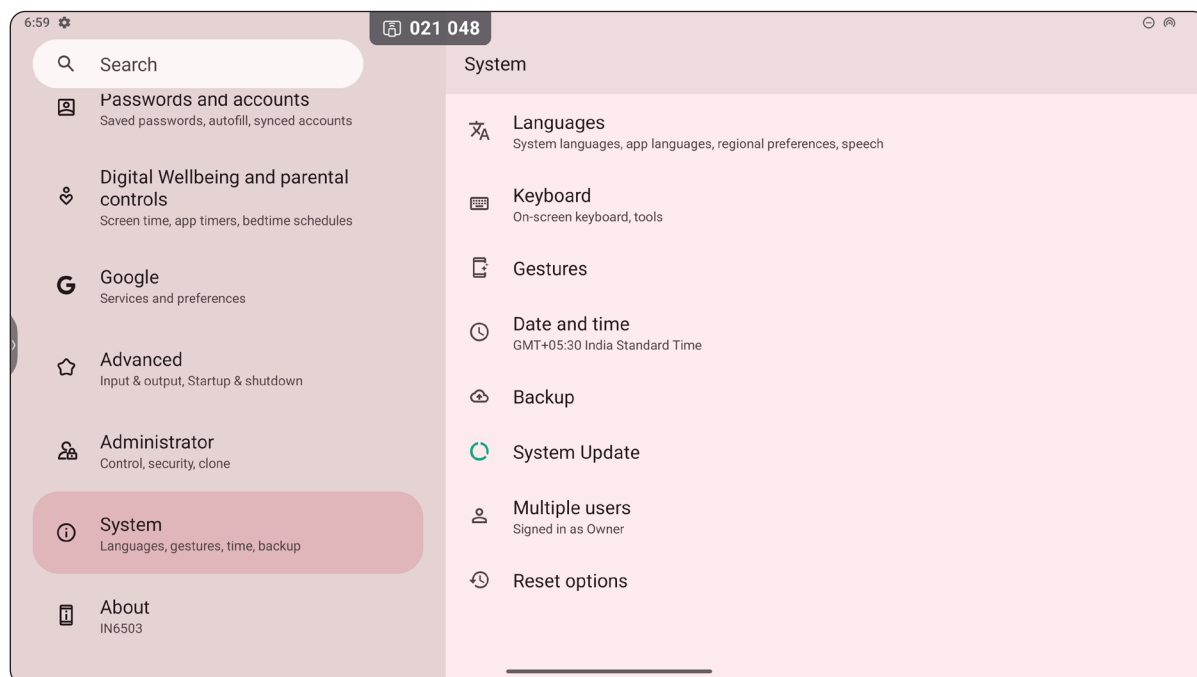
Set up a variety of functions.



Item	Description
Date format	Set the system time and format.
Country & region	Use the drop-down list to set the region for your network service.
Input & output	Choose the audio output channel, and adjust input source naming settings.
Show Android status bar	Turn the status bar on or off.
Startup & Shutdown	Set the startup channel, Energy Saving and Schedule settings.
Display	Set the eye protection mode, auto backlight, and pixel shift settings.
Gesture	Enable five finger gesture operation to access commonly used applications or functions.
Email	Add an email account to the display.
User experience plan	Turn the user experience plan on or off.

System

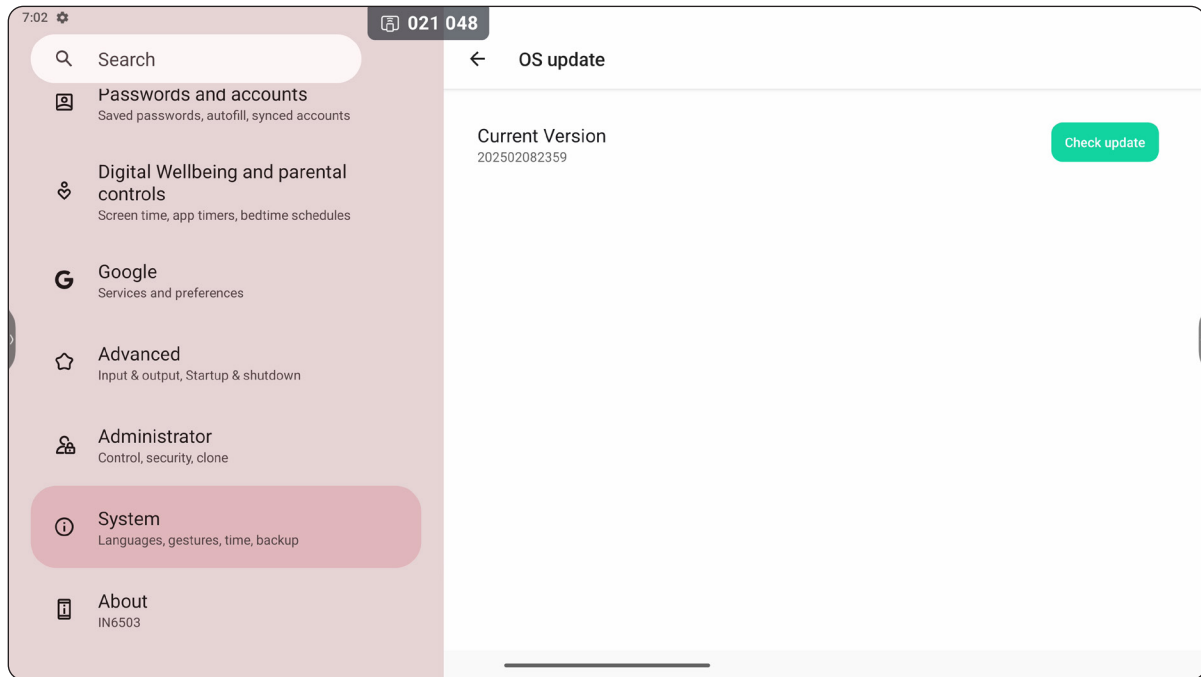
Manage system settings.



Item	Description
Languages	Choose the preferred language.
Keyboard	Set the keyboard.
Gestures	Adjust the side toolbar settings.
Date and time	Set the date and time.
Backup	With a Google account, back up the device's data.
System updates	Check for system updates.
Reset options	Reset the ViewBoard to factory default settings.

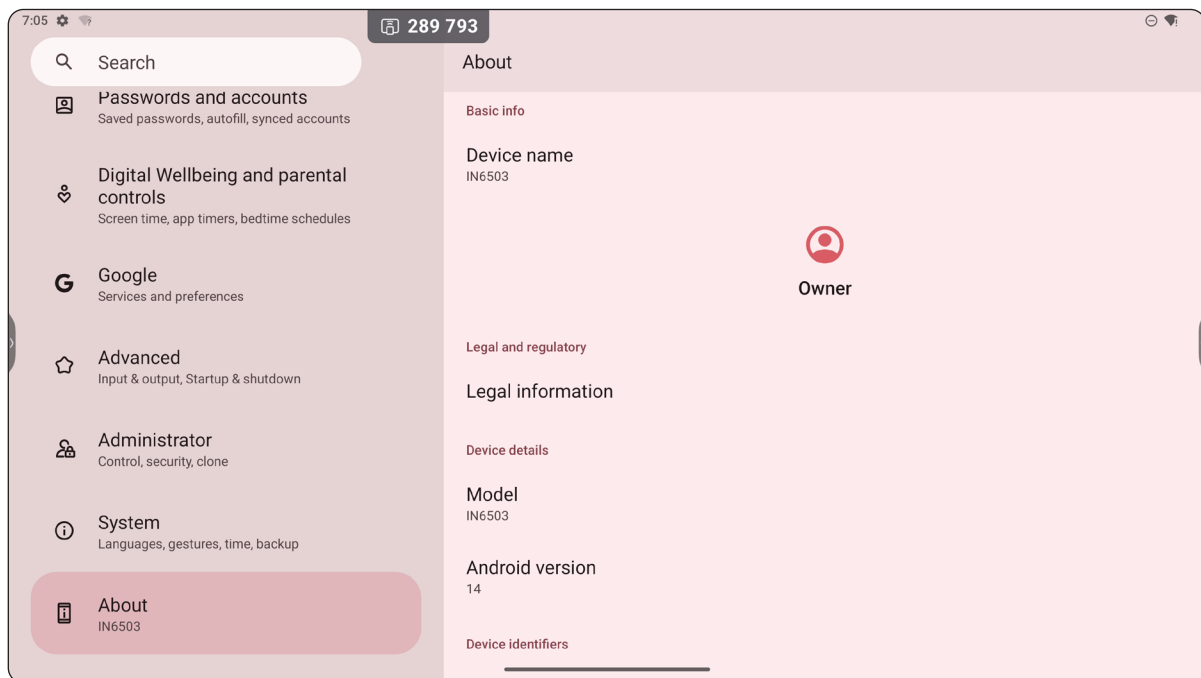
System Update

The ViewBoard automatically searches for software updates whenever it is connected to the Internet (OTA). The software can then be updated by selecting the update button.



About

Review display information.

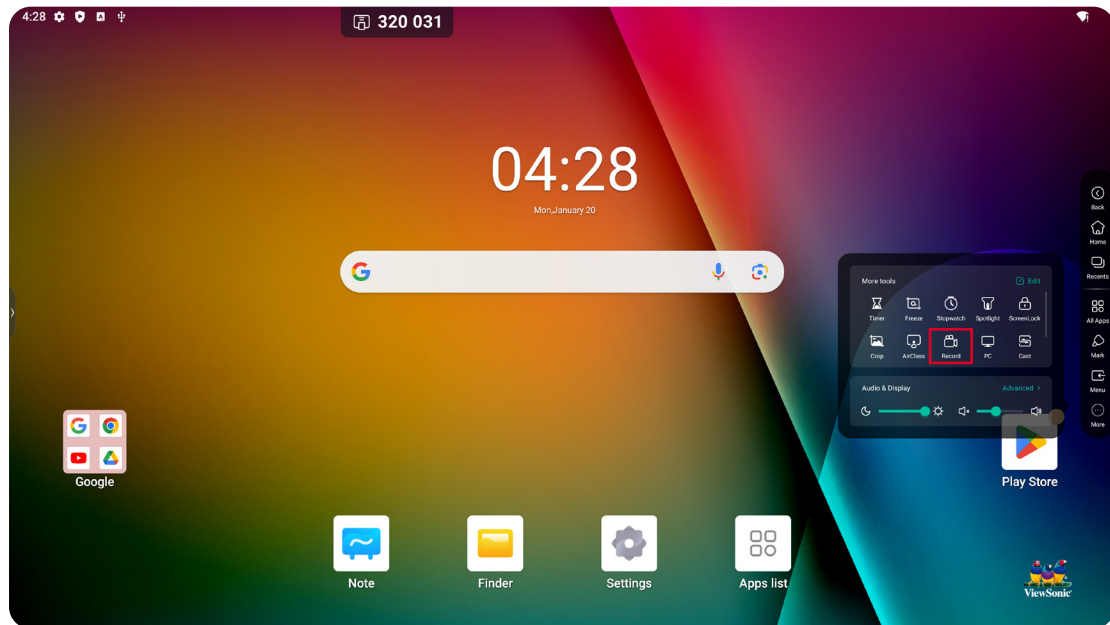


Item	Description
Device name	View the name of the device.
Legal information	View the relevant legal information.
Model	View the model of the ViewBoard.
Android version	View the installed version of Android.
IP Address	View the IP Address.
Wi-Fi MAC address	View and choose from saved networks.
Device Wi-Fi MAC address	View the Device Wi-Fi MAC address.
Bluetooth address	View the Bluetooth address.
Uptime	View the current running time of the device.
Build number	View the version number of current software.

Pre-installed Applications and Settings

Record

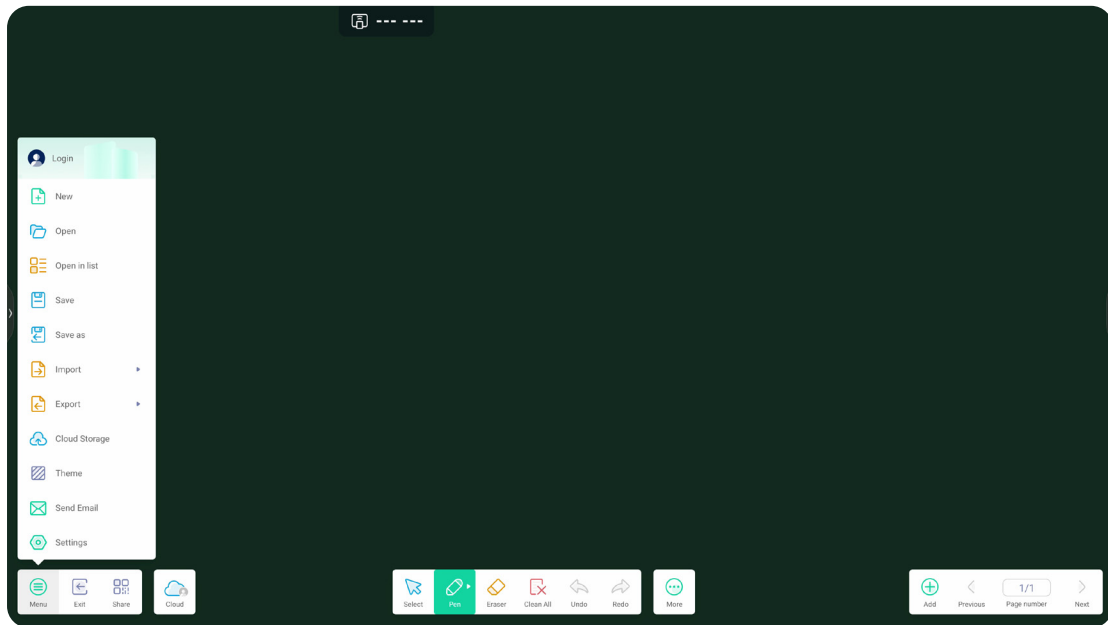
Capture everything that is displayed on screen in a video format.



1. Select the **Record** icon under **More**.
2. Select the preferred recording configurations.
3. Touch the check mark and a three second countdown will begin. Screen recording will begin immediately after the countdown.
4. After stopping the recording, you will be able to preview the video, save it, or discard it.

Note

A digital whiteboarding application.



Toolbar

Item		Description
	Menu	Create new, open, save, import and export files. Set up cloud storage, themes and adjust other settings.
	Exit	Close the Note application.
	Share	Share the canvas via QR code.
	Cloud	Online storage account login.
	Selection	Select objects, text, and other elements on the canvas.
	Write	Writing tools and customization options.
	Eraser	Erase objects.
	Clean	Clear the canvas.
	Undo	Undo the previous action.
	Redo	Redo the previous action.

Item		Description
	More	Open more tool applications.
	Add	Add a new canvas.
	Previous	Go to the previous page (if the canvas has multiple pages).
	Page	Indicates the page number.
	Next	Go to the next page (if the canvas has multiple pages).

Menu

Item		Description
	Login	Log into the Note application.
	New	Create a new file.
	Open	Open or import a file.
	Open in list	Open a list of local files.
	Save	Saves the file to a specified location.
	Save as	Saves the file as a copy to the specified location.
	Import	Import a file. IMG, PDF, SVG, and IWB are supported.
	Export	Export the current file. IMG, PDF, SVG, and IWB are supported.
	Cloud storage	Upload, open, or download a file from cloud services. Google Drive and OneDrive are supported.
	Theme	Change the template and background.
	Send Email	Send the current page to a specific email address.
	Settings	Adjust the settings.

More

	Item	Description
	Ruler	Select a ruler type.
	Shape	Create 2D and 3D shapes.
	Sticky Note	Create a note.
	Mind Map	Create a mind map.
	Table	Create a form and set the quantity of columns and rows.
	Grid	Create a grid.
	Partition	The split screen function evenly divides the main screen into two to four independent small split screens, supporting multiple users to use the main screen at the same time for simple operations (e.g., writing, erasing and clearing the screen).
	Formula	Create a formula.
	Periodic	View the periodic table.
	Planet	A planetary simulation map.
	Activities	Interactive activity games.
	Simulation	Simulated experimental operation.
	Search	Search for pictures and videos online by connecting to a network. Then, you can move pictures or videos to the whiteboard.
	Wikipedia	Directly access Wikipedia.
	Molecular	Teaching application of molecular permutations and combinations.
	Geometric	Geometry teaching program.

Item		Description
	3D Calculator	3D calculation formula teaching program.
	Scientific	Scientific calculator.

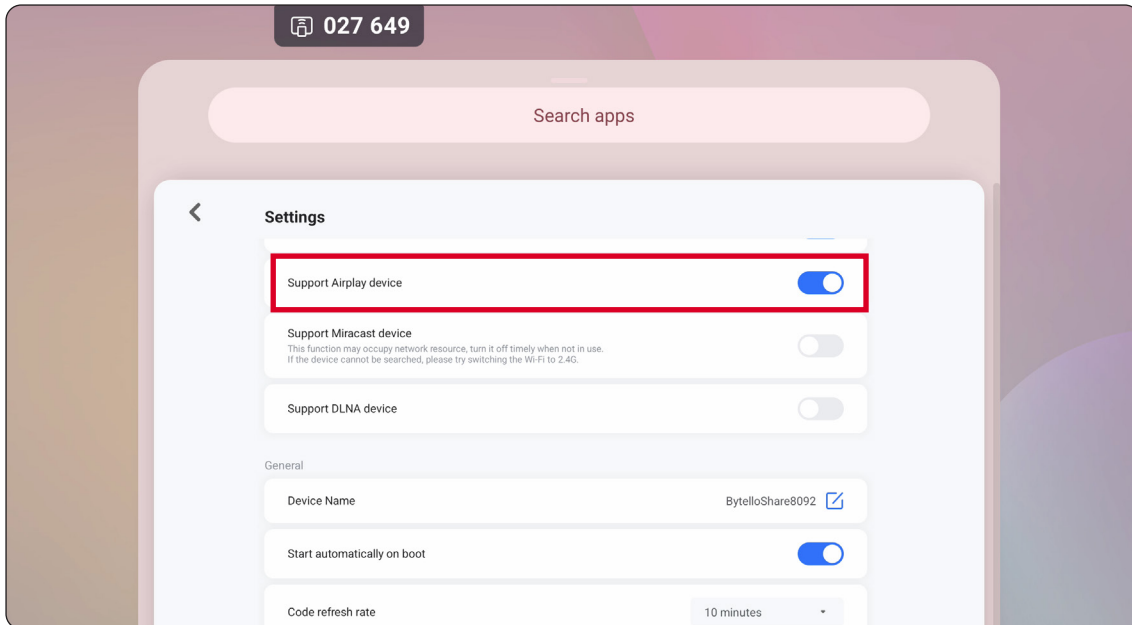
Bytello Share

Screen Casting

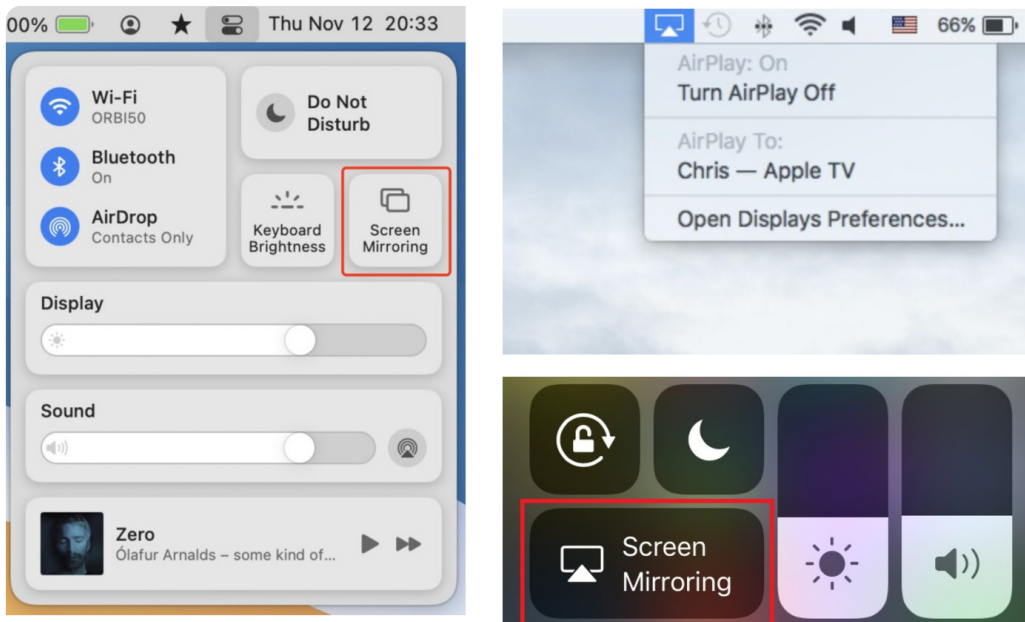
Screen Casting by Standard Protocol

AirPlay

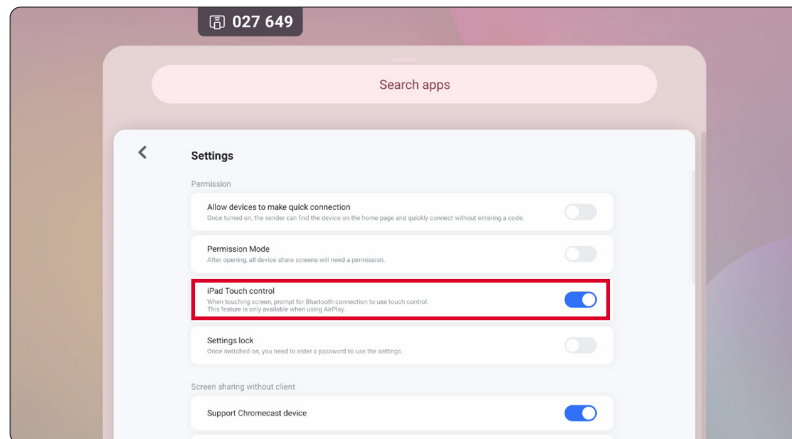
Note: Airplay is disabled by default, enable it in the display's settings first.



When an Apple device is in the same network with the Bytello Share server. You can cast the screen by choosing the “Screen Mirroring” from the Control Center.



Note: While casting from an iPad, touch control can be enabled in the display's settings. Bytello Share will require a Bluetooth connection to enable reverse touch control.



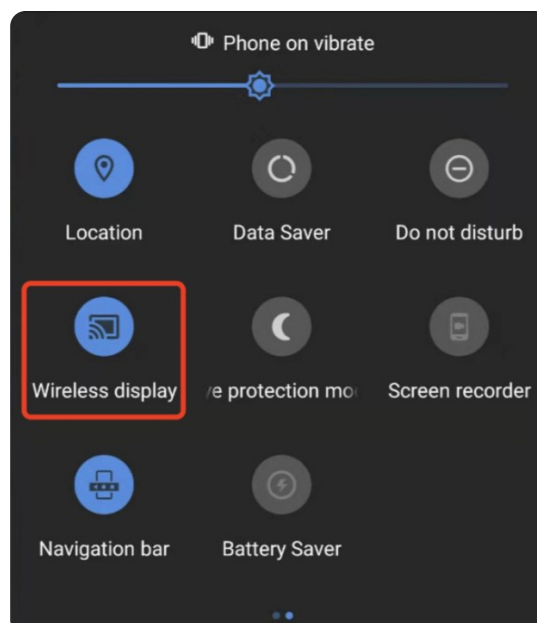
Android, Miracast, Chromecast

Note:

- Miracast and Chromecast are disabled by default, enable them in the display's settings first.
- For Miracast, please make sure the client device is nearby the display.
- For Chromecast, please make sure the client device and display are connected to the same network.

Android Device

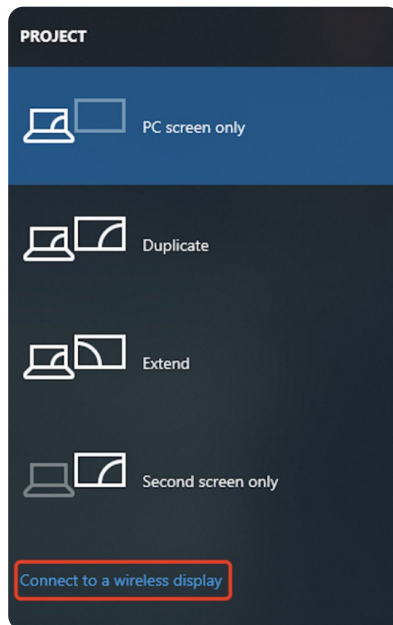
On the Android device, select “Wireless Display”/“Cast”, then select the target display.



Windows Device

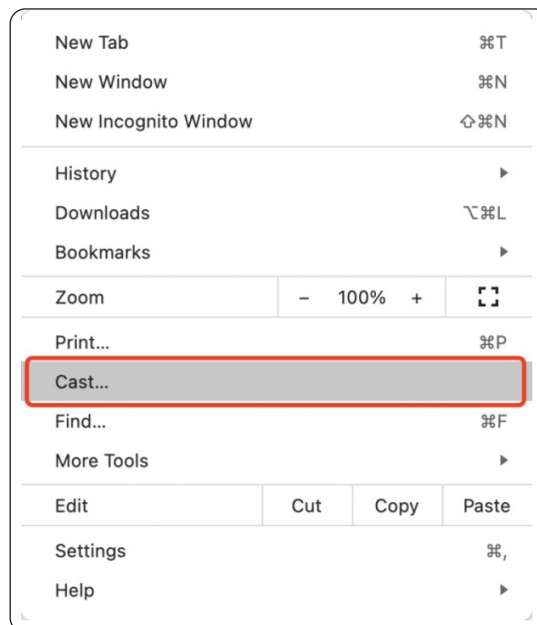
On the Windows device, press **Win+P** and select “Connect to a wireless display”, then select the target display.

Note: Not all Windows devices support Miracast.



ChromeOS Device/Chrome Browser

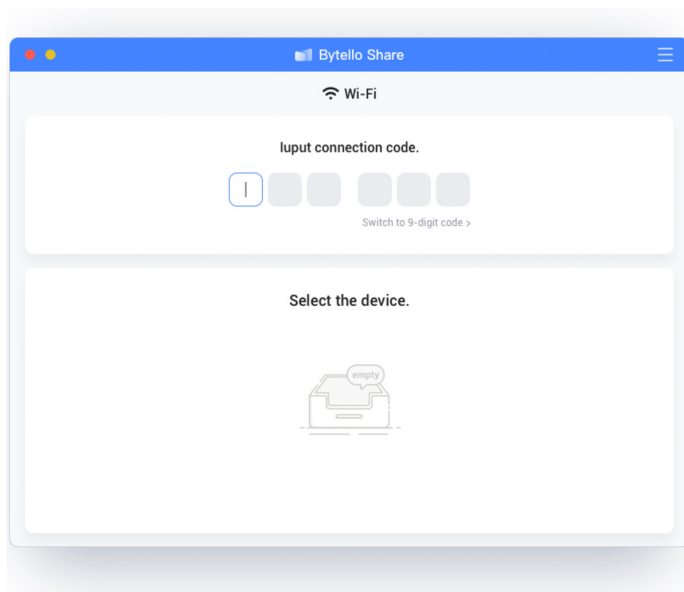
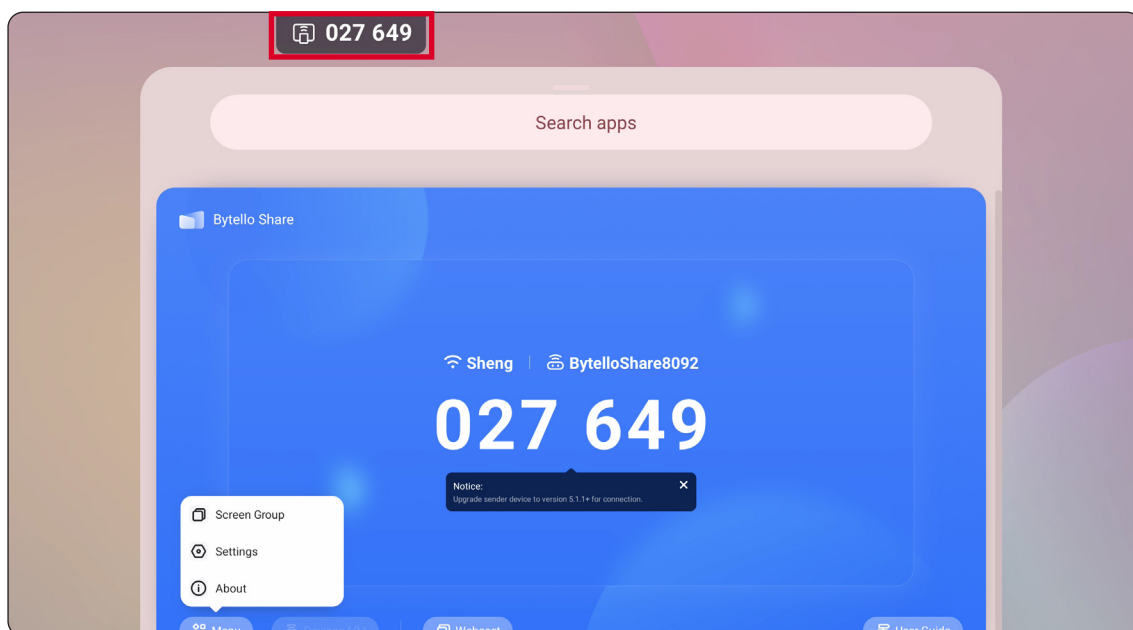
On the device, select “Cast”, then select the target display.



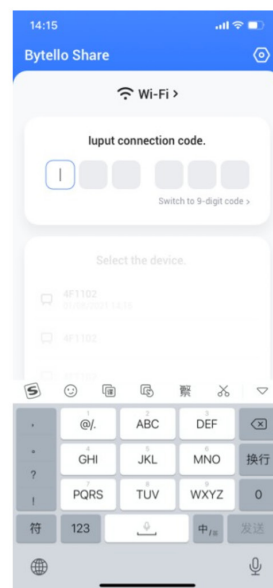
Screen Casting by Client Application

Connect with a Code

A connection code will be displayed at the top of the display's screen. Input the code on the client device to connect with the display.



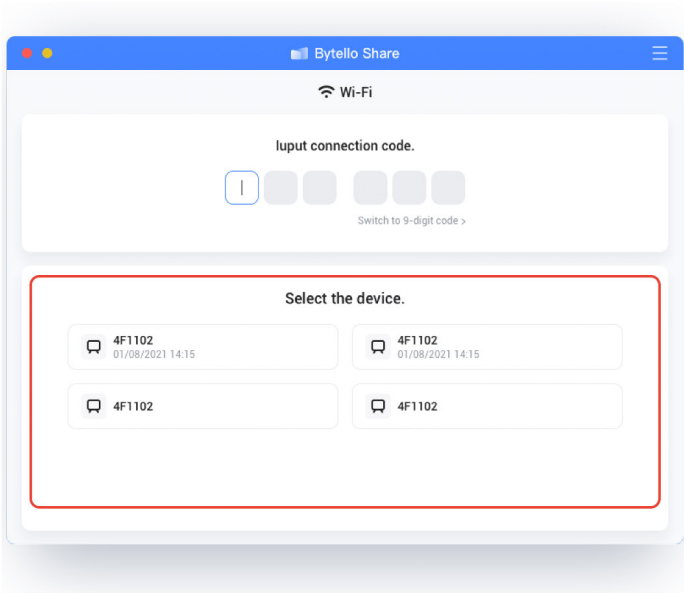
mac OS



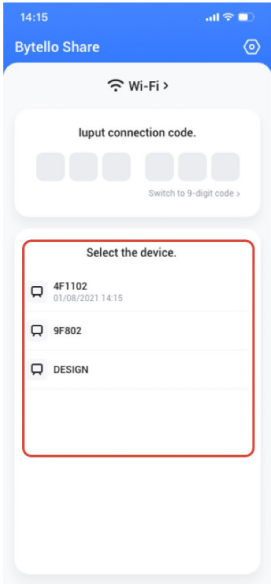
iOS

Connect by Discovery

You can also directly connect to the display by selecting from the device list.



mac OS



iOS

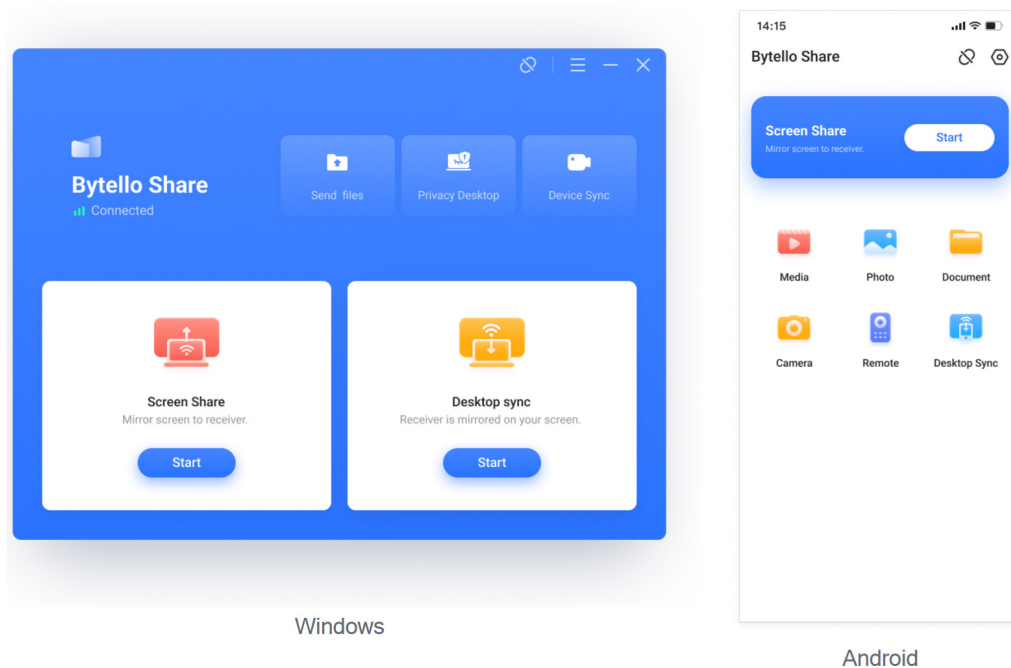
Peer-to-Peer Screen Sharing

Note: Only for Windows and Android.

Turn on Wi-Fi on both the display and the client device. The two devices will be able to discover each other and connect to start screen sharing.

Screen Share

Select **Start** to start casting to the display.



Note: For Windows/macOS you can share one application or window instead of the entire desktop.

Quick Screen Sharing by the System Menu

For Windows/macOS:

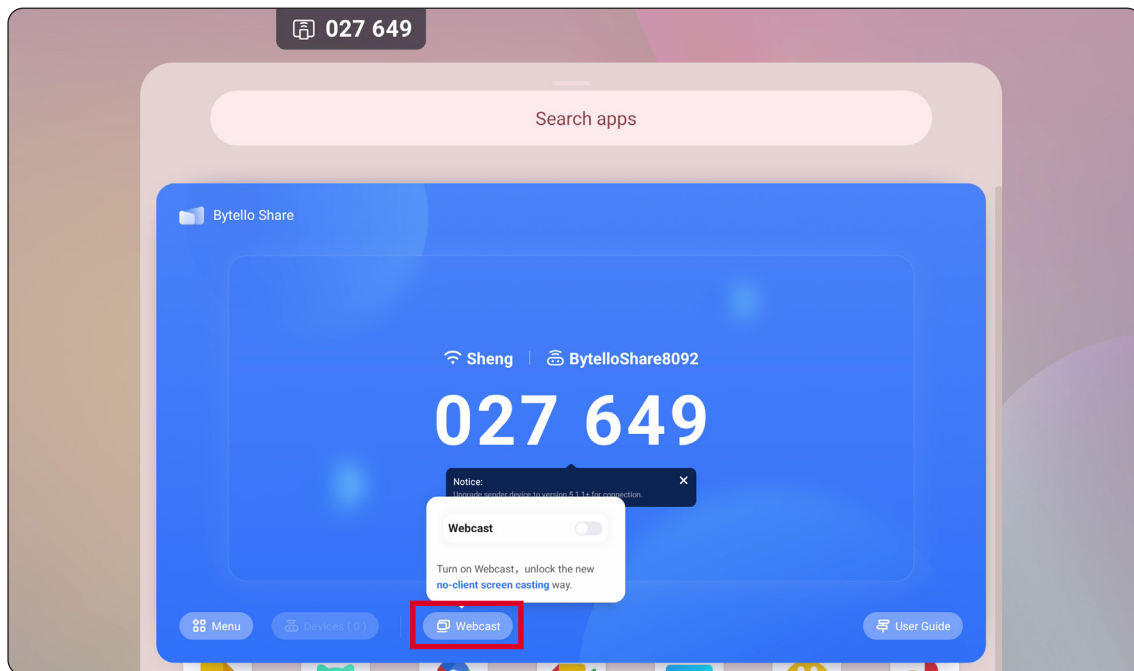
1. Select a file, then open the system menu.
2. Select “Mirror to receiver”.

For Android/iOS:

1. Select a file, then open the system sharing menu.
2. Select Bytello Share.

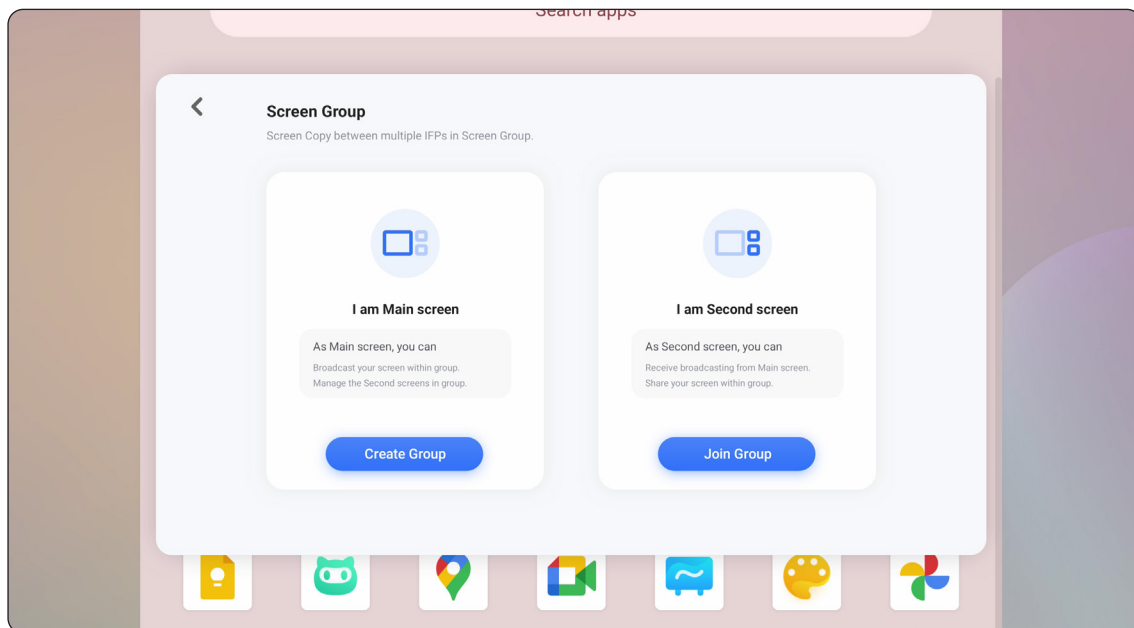
Screen Casting by Web

A connection code will be displayed at the top of the display's screen. Visit <https://share.bytello.com> on a computer and input the code on the client device to connect with the display.



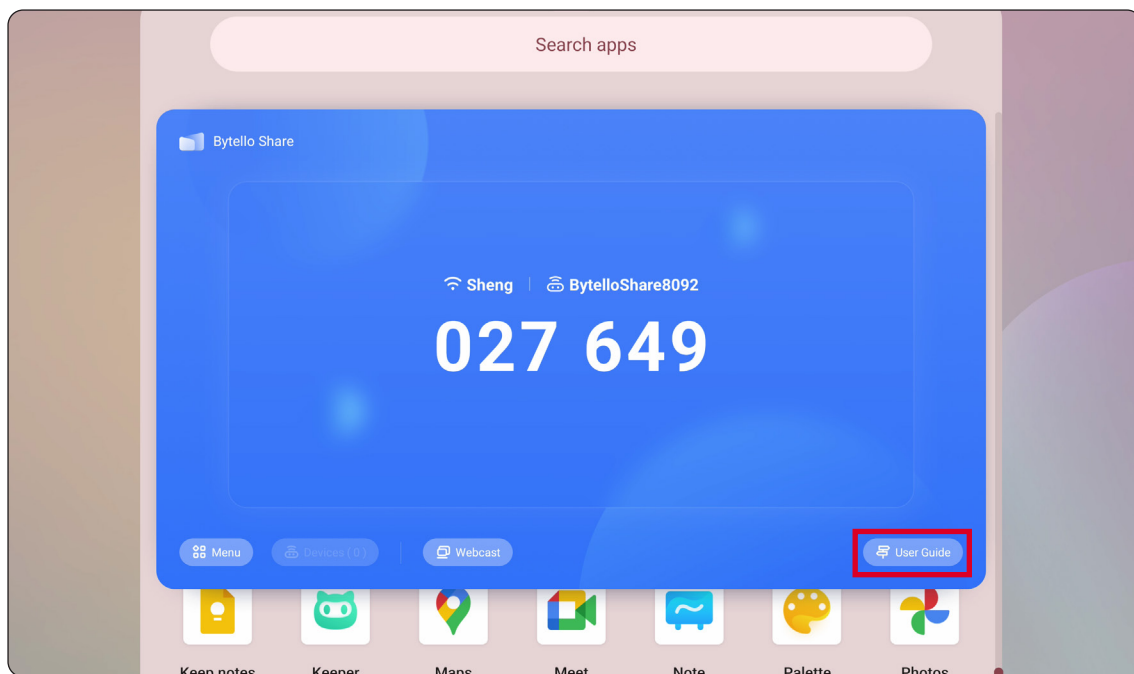
Screen Group

Create a group of several displays. The “Main screen” of the group can share its screen to all “Second screens”. “Second screens” can share with the “Main screen” and group.



User Guide

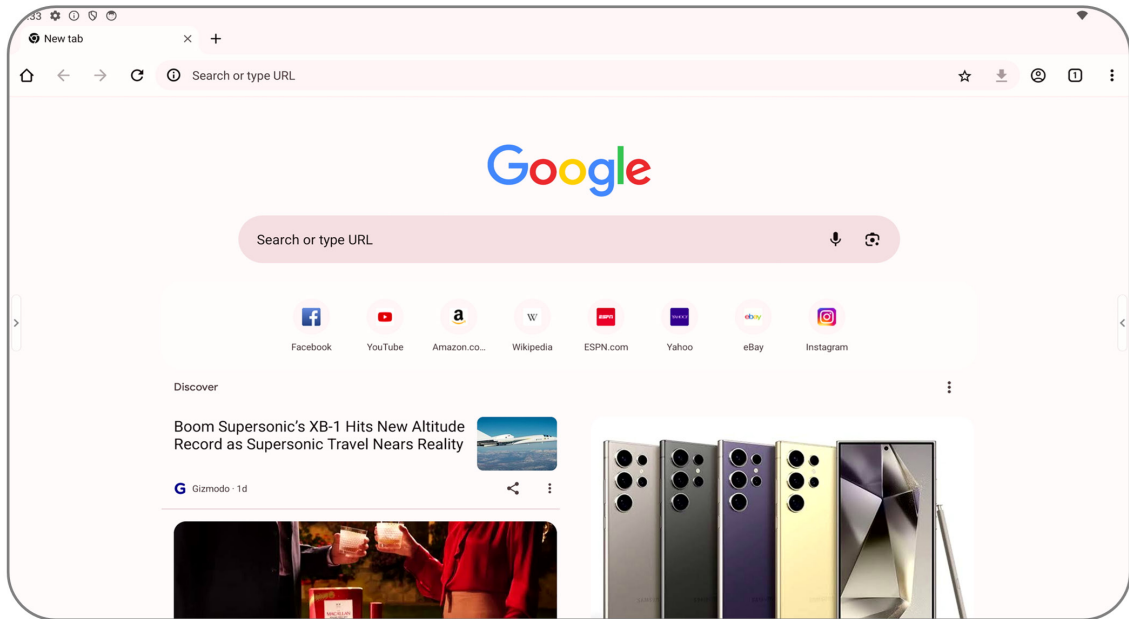
The guide will show you how to connect using Bytello Share and share a screen.



Other Default Applications

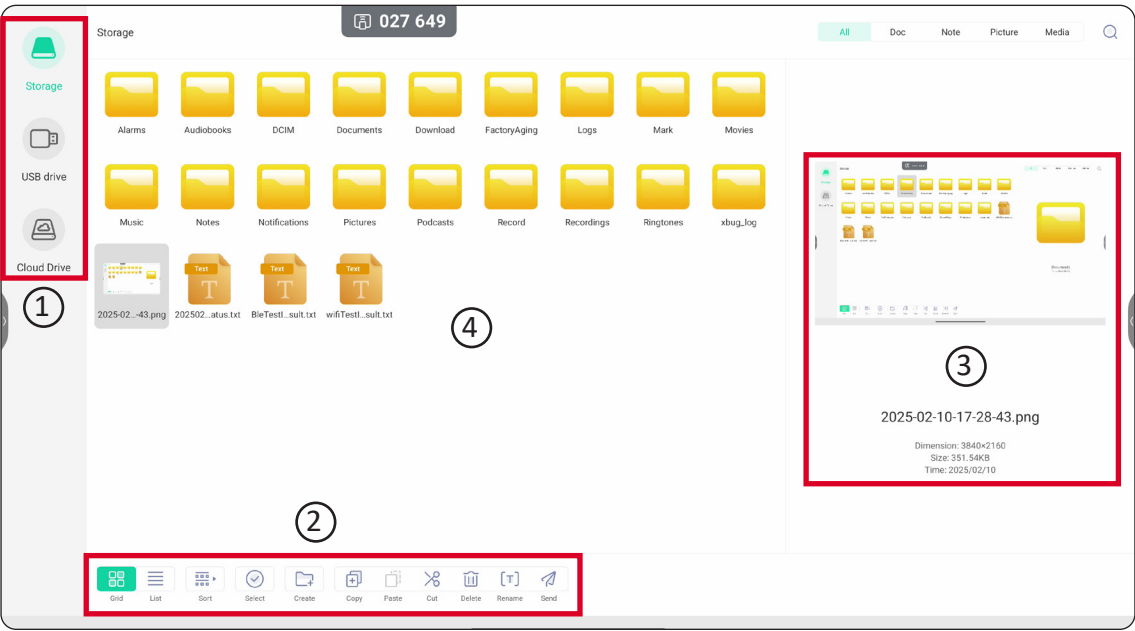
Browser

Web browser for surfing the Internet.



Finder

Manage files and folders.



1. Storage Device Display

Select the appropriate storage device.

2. Icons

Item		Description
	Grid	Display files by thumbnail view
	List	Display files by list view
	Sort	Sort the files
	Select	Select a file
	Create	Create a new folder
	Copy	Copy a file
	Paste	Paste a file
	Cut	Cut a file
	Delete	Delete a file
	Rename	Rename a file

Item		Description
	Send	Share a file

3. File Information

Preview the file, show the file's name, size, resolution, and creation date.

4. Main Display Area

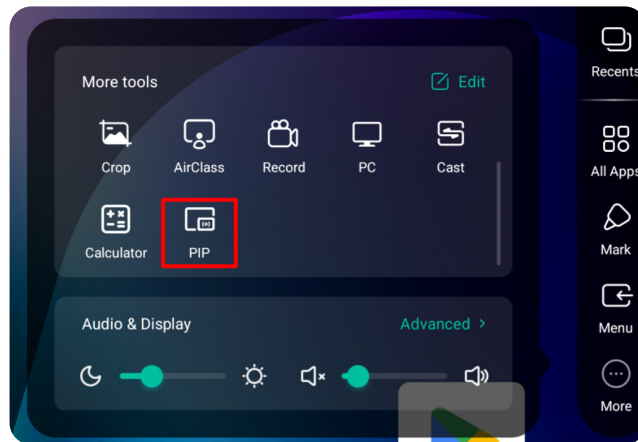
Display files of corresponding type.

PIP (Picture-in-Picture)

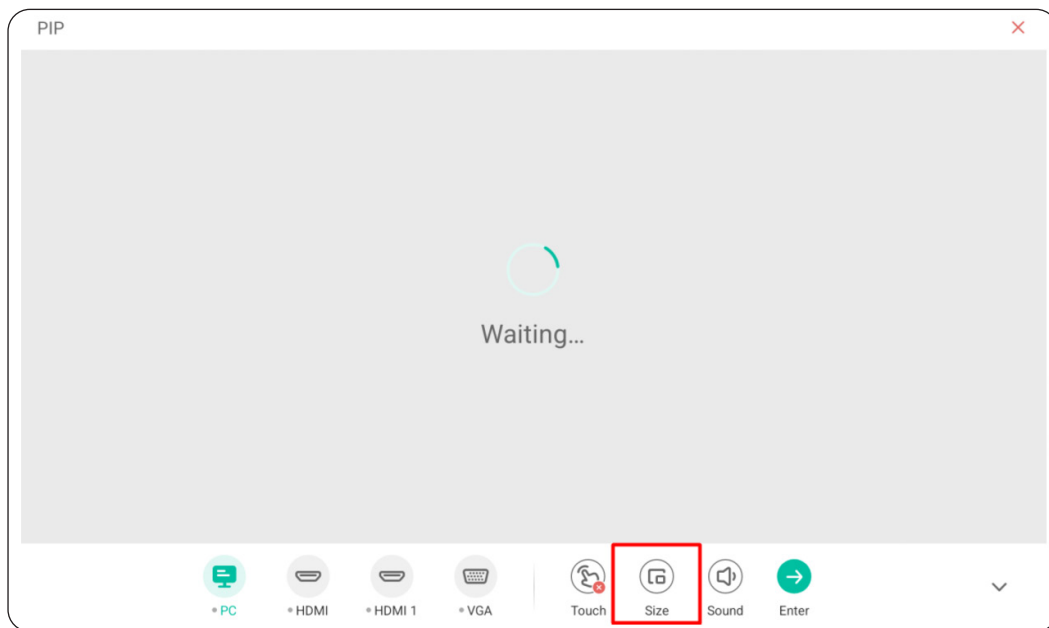
Split the screen into two parts, a main window and an inset window.

Note: PIP only works between an Android application and an external source.

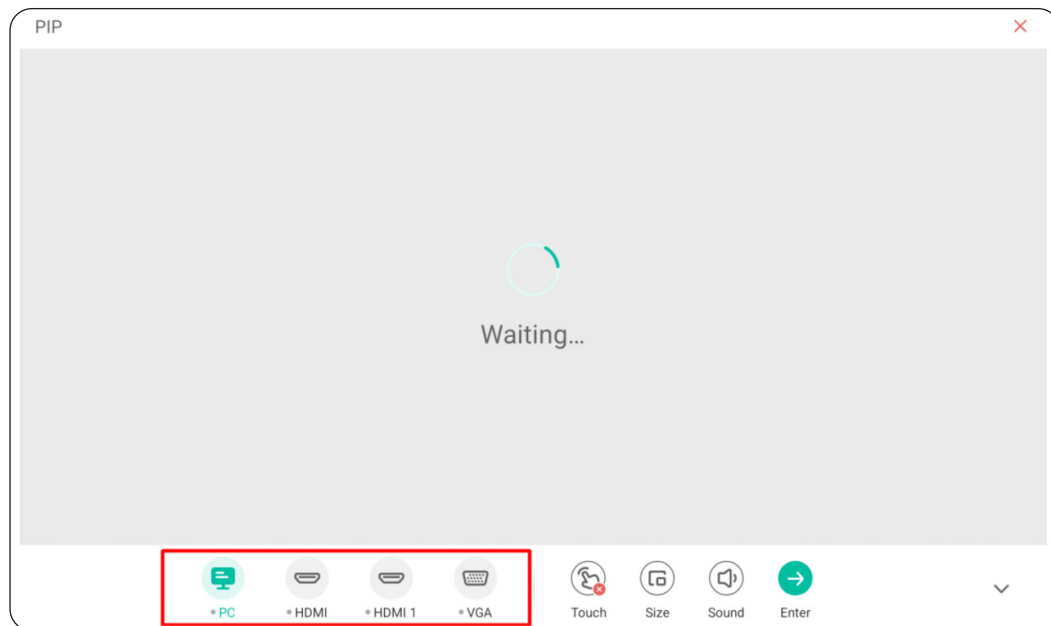
- To open PIP, select **More > PIP**.



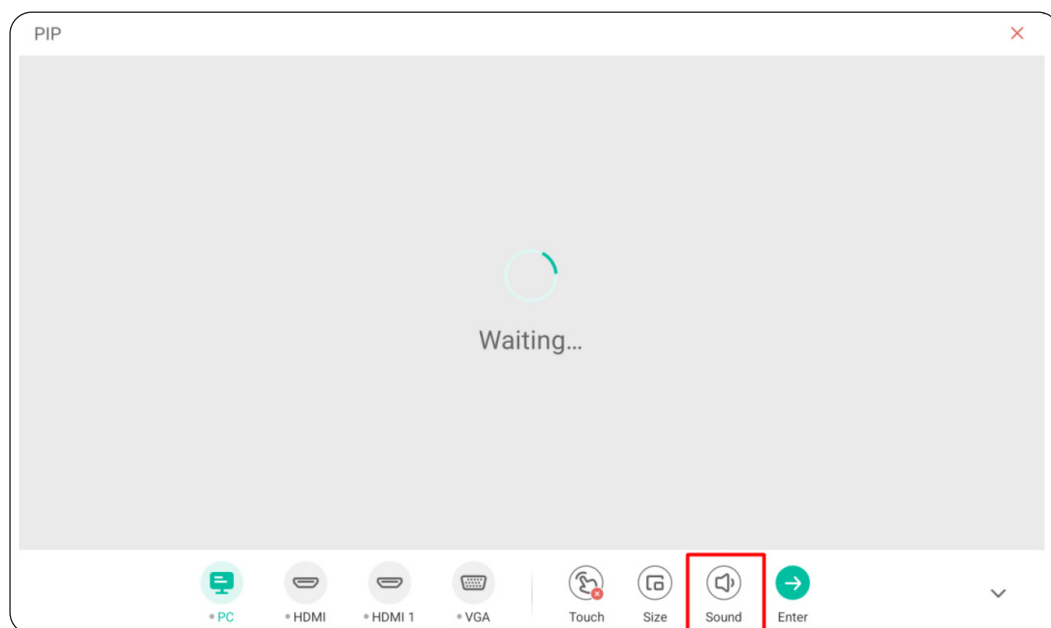
- To adjust the size of the inset window, select **Size**.



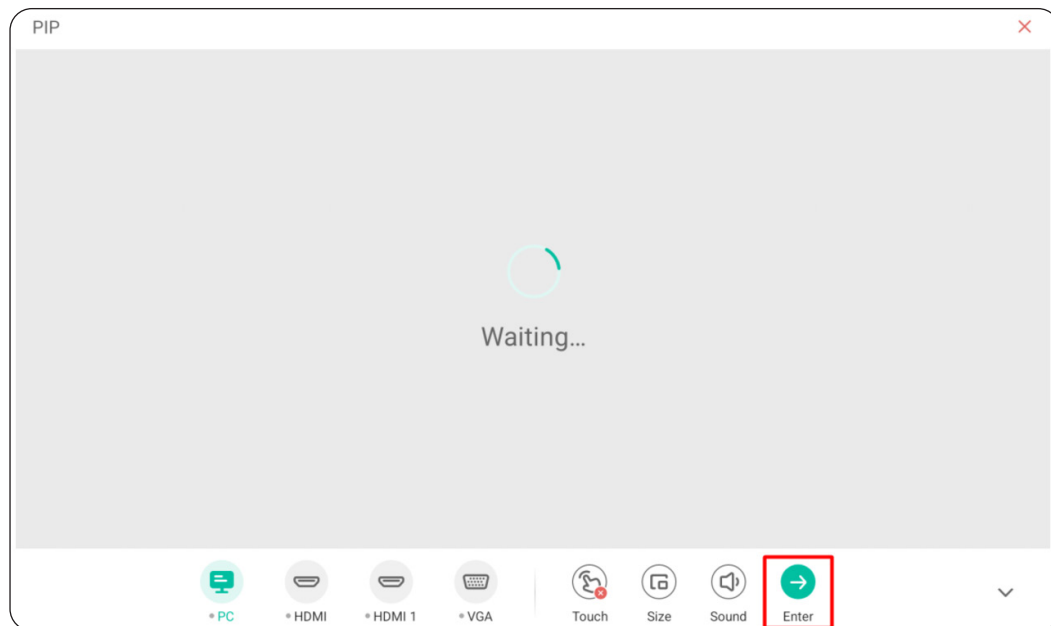
- To change **PIP** input source, select **PC**, **HDMI**, **HDMI 1**, or **VGA**.



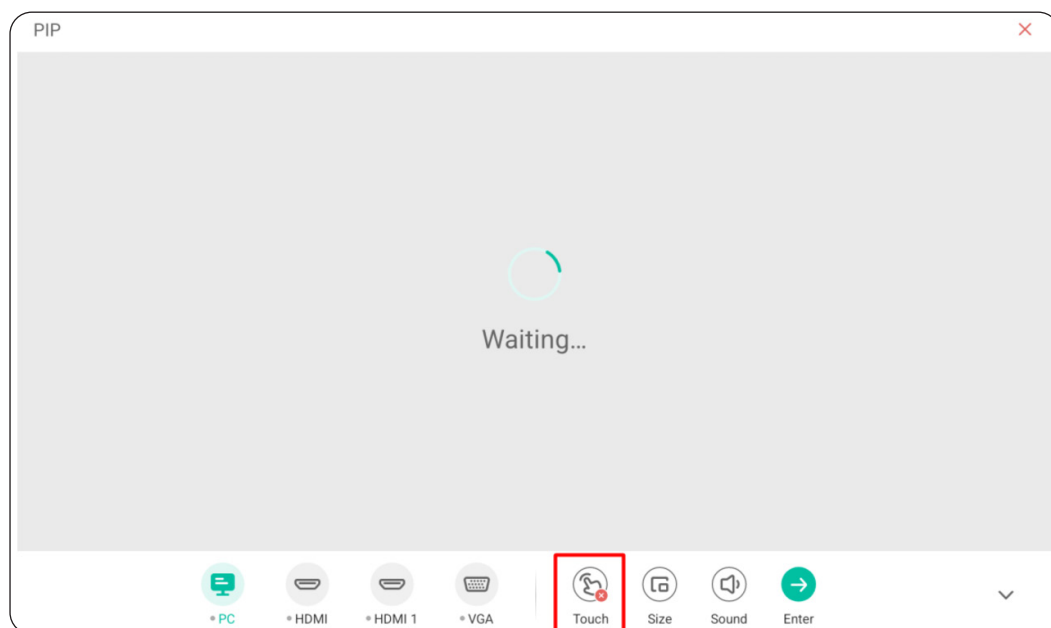
- To control the connected external device's volume, select **Sound**.



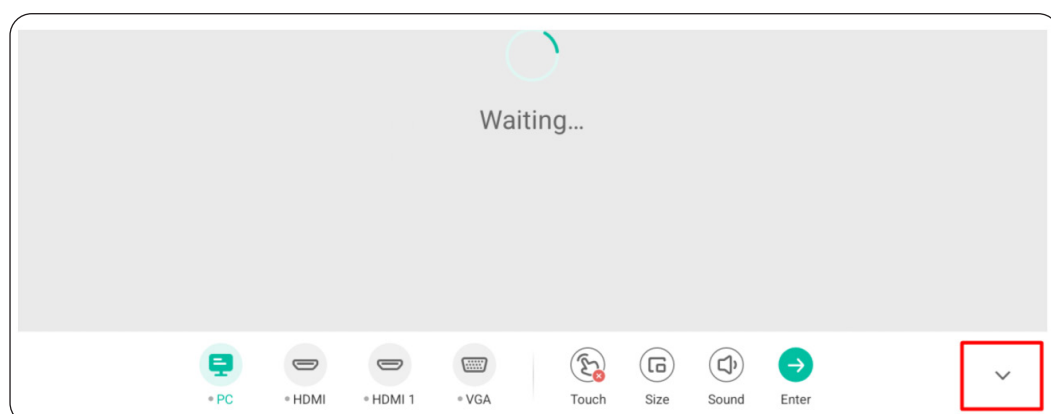
- Select **Enter** to switch to the PIP input source.



- To perform touch control on connected external devices, select **Touch**.



- Select the down arrow to switch to full screen mode.



RS-232 Protocol

This document describes the hardware interface and software protocols of RS-232 interface communication between the ViewSonic LED Display and computers or other control units with RS-232 protocol.

The protocol contains three command sections:

- Set-Function
- Get-Function
- Remote control pass-through mode

Note: Below, “PC” represents all the control units that can send or receive the RS-232 protocol command.

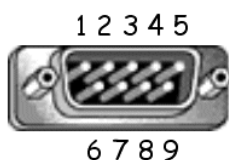
Description

RS-232 Hardware Specification

ViewSonic LFD communication port on the rear side:

1. Connector type: DSUB 9-Pin Male
2. Use of straight-through (null modem) cable for connection
3. Pin Assignment:

Male DSUB 9-Pin

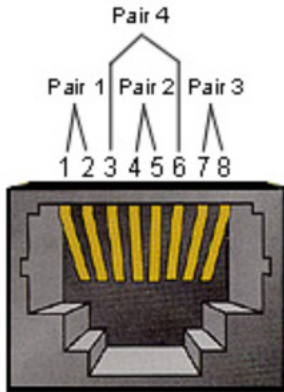


Pin #	Signal	Remark
1	NC	
2	RXD	Input to Display
3	TXD	Output from Display
4	NC	
5	GND	
6	NC	
7	NC	
8	NC	
9	NC	
frame	GND	

LAN Hardware Specification

ViewSonic LFD communication port on the rear side:

1. Connector type: 8P8C RJ45
2. Pin Assignment:



Pin #	Signal	Remark
1	TX+	Output from Display
2	TX-	Output from Display
3	RX+	Input to Display
4	BI_D3+	For 1G case
5	BI_D3-	For 1G case
6	RX-	Input to Display
7	BI_D4+	For 1G case
8	BI_D4-	For 1G case
frame	GND	

RS-232 Communication Setting

- Baud Rate Select: 9600 bps (fixed)
- Data bits: 8 bits (fixed)
- Parity: None (fixed)
- Stop Bits: 1 (fixed)

LAN Communication Setting

Type: Ethernet
Protocol: TCP/IP
Port: 5000 (fixed)
WOL Port: 9 (fixed) for UDP^{*3.2.0}
Cross subnet: No
Logon Credentials: No

Command Format

byte1 byte2 byte3 byte4 byte5 byte6 byte7 byte8 byte9

Command Description

byte1: always 3A, representing the start of the command.

byte2, byte3: always 30 31, indicating that the machine whose machine ID is 1 responds to the command.

byte4: 53 indicates that the command is a set command; 47 indicates that the command is a get command.

byte5: Indicates the type of command, such as Power is 30, Treble is 31, Volume is 38, etc.

byte6, byte7, byte8: data information of the command, such as 30 30 30 is 0, 30 31 32 is 12, 31 30 30 is 100.

byte9: always 0D, representing the end of the command.

Protocol

Set-Function Listing

The PC can control the Display for specific actions. The Set-Function command allows you to control the Display behavior at a remote site through the RS-232 port. The Set-Function packet format consists of 9 bytes.

Item	Description	
Communication Configuration	Communication interface	RS-232
	Communication protocol	Uart
	Baud rate	9600
	Data bits	8
	Stop bits	1
	Parity check	None
Packet Description	Packet byte encoding	Hexadecimal
	Is there a maximum limit on the package length	No
	Whether there is package verification	No

Set-Function Table (Basic Function)

Description	Cmd (Hex)	Value	Command	Reply	Note
Power	30	000 : backlight off	3A 30 31 53 30 30 30 30 0d	Set success reply: 34 30 31 2B 0D Set fail reply: 34 30 31 2D 0D	
		001 : backlight on	3A 30 31 53 30 30 30 31 0d		
		002 : power off	3A 30 31 53 30 30 30 32 0d		
		003 : power on	3A 30 31 53 30 30 30 33 0d		Only supports RS-232; does not support LAN
		004: reboot	3A 30 31 53 30 30 30 34 0d		
Treble	31	-xx: -5~0	3A 30 31 53 31 2D 30 33 0d		e.g., set treble to -3
		+xx: 0~5	3A 30 31 53 31 2B 30 33 0d		e.g., set treble to 3
Bass	32	-xx: -5~0	3A 30 31 53 32 2D 30 35 0d		e.g., set bass to -5
		+xx: 0~5	3A 30 31 53 32 2B 30 35 0d		e.g., set bass to 5
Balance	33	-xx: -50~0	3A 30 31 53 33 2D 35 30 0d		e.g., set balance to -50
		+xx: 0~50	3A 30 31 53 33 2B 32 30 0d		e.g., set balance to 20
Contrast	34	000 ~ 100	3A 30 31 53 34 30 35 30 0d		e.g., set contrast to 50
Brightness	35	000 ~ 100	3A 30 31 53 35 30 35 30 0d		e.g., set brightness to 50
Sharpness	36	000 ~ 100	3A 30 31 53 36 30 31 30 0d		e.g., set sharpness to 10S

Description	Cmd (Hex)	Value	Command	Reply	Note
Sound Mode	37	000 : Movie	3A 30 31 53 37 30 30 30 0d	Set success reply: 34 30 31 2B 0D Set fail reply: 34 30 31 2D 0D	
		001 : Standard	3A 30 31 53 37 30 30 31 0d		
		002 : Custom	3A 30 31 53 37 30 30 32 0d		
		003 : Classroom	3A 30 31 53 37 30 30 33 0d		
		004 : Meeting	3A 30 31 53 37 30 30 34 0d		
Volume	38	000 ~ 100	3A 30 31 53 38 30 35 30 0d		
Mute	39	000: Off	3A 30 31 53 39 30 30 30 0d		
		001: On	3A 30 31 53 39 30 30 31 0d		

Description	Cmd (Hex)	Value	Command	Reply	Note
Video Source	3A	000 : VGA	3A 30 31 53 3A 30 30 30 0d	Set success reply: 34 30 31 2B 0D Set fail reply: 34 30 31 2D 0D	
		001 : HDMI1	3A 30 31 53 3A 30 30 31 0d		
		002: HDMI2	3A 30 31 53 3A 30 30 32 0d		
		003 : AV	3A 30 31 53 3A 30 30 33 0d		
		022 : HDMI4	3A 30 31 53 3A 30 32 32 0d		
		021 : HDMI3	3A 30 31 53 3A 30 32 31 0d		
		031 : VGA2	3A 30 31 53 3A 30 33 31 0d		
		032 : VGA3	3A 30 31 53 3A 30 33 32 0d		
		051 : ATV	3A 30 31 53 3A 30 35 31 0d		
		101 : android	3A 30 31 53 3A 31 30 31 0d		
		103 : Slot in PC	3A 30 31 53 3A 31 30 33 0d		
		007 : Display Port	3A 30 31 53 3A 30 30 37 0D		
		102 : android +	3A 30 31 53 3A 31 30 32 0D		
		104 : Type-C1	3A 30 31 53 3A 31 30 34 0D		
		105 : Type-C2	3A 30 31 53 3A 31 30 35 0D		
Aspect Ratio	3B	000 : 16:9	3A 30 31 53 3B 30 30 30 0d		
		001 : 4:3	3A 30 31 53 3B 30 30 31 0d		
		002 : PTP	3A 30 31 53 3B 30 30 32 0d		

Description	Cmd (Hex)	Value	Command	Reply	Note
Language	3C	000: English	3A 30 31 53 3C 30 30 30 0d	Set success reply: 34 30 31 2B 0D Set fail reply: 34 30 31 2D 0D	
		001: Français	3A 30 31 53 3C 30 30 31 0d		
		002: Español	3A 30 31 53 3C 30 30 32 0d		
		003: 繁中	3A 30 31 53 3C 30 30 33 0d		
		004: 简中	3A 30 31 53 3C 30 30 34 0d		
		005: Português	3A 30 31 53 3C 30 30 35 0d		
		006: German	3A 30 31 53 3C 30 30 36 0d		
		007: Dutch	3A 30 31 53 3C 30 30 37 0d		
		008: Polish	3A 30 31 53 3C 30 30 38 0d		
		009: Russia	3A 30 31 53 3C 30 30 39 0d		
		010:Czech	3A 30 31 53 3C 30 31 30 0d		
		011:Danish	3A 30 31 53 3C 30 31 31 0d		
		012:Swedish	3A 30 31 53 3C 30 31 32 0d		
		013:Italian	3A 30 31 53 3C 30 31 33 0d		
		014:Romanian	3A 30 31 53 3C 30 31 34 0d		
		015:Norwegian	3A 30 31 53 3C 30 31 35 0d		
		016:Finnish	3A 30 31 53 3C 30 31 36 0d		
		017:Greek	3A 30 31 53 3C 30 31 37 0d		
		018:Turkish	3A 30 31 53 3C 30 31 38 0d		
		019:Arabic	3A 30 31 53 3C 30 31 39 0d		

Description	Cmd (Hex)	Value	Command	Reply	Note
Language	3C	020:Japanese	3A 30 31 53 3C 30 32 30 0d	Set success reply: 34 30 31 2B 0D Set fail reply: 34 30 31 2D 0D	
		021:Ukraine	3A 30 31 53 3C 30 32 31 0d		
		022:Korean	3A 30 31 53 3C 30 32 32 0d		
		023:Hungarian	3A 30 31 53 3C 30 32 33 0d		
		024:Perisan	3A 30 31 53 3C 30 32 34 0d		
		025:Vietnamese	3A 30 31 53 3C 30 32 35 0d		
		026:Thailand	3A 30 31 53 3C 30 32 36 0d		
		027:Catalan	3A 30 31 53 3C 30 32 37 0d		
		028:Lithuanian	3A 30 31 53 3C 30 32 38 0d		
		029:Croatian	3A 30 31 53 3C 30 32 39 0d		
		030:Estonian	3A 30 31 53 3C 30 33 30 0d		
Picture Mode	3D	000 : standard	3A 30 31 53 3D 30 30 30 0d		
		001 : bright	3A 30 31 53 3D 30 30 31 0d		
		002 : soft	3A 30 31 53 3D 30 30 32 0d		
		003 : customer	3A 30 31 53 3D 30 30 33 0d		
Hue (Color)	3E	000 ~ 100	3A 30 31 53 3E 30 33 30 0d		
Backlight	3F	000 ~ 100	3A 30 31 53 3F 30 35 30 0d		
Color Temp	40	000 : Cool	3A 30 31 53 40 30 30 30 0d		
		001 : Standard	3A 30 31 53 40 30 30 31 0d		
		002 : Warm	3A 30 31 53 40 30 30 32 0d		

Description	Cmd (Hex)	Value	Command	Reply	Note
Remote Control Command	41	000 : Vol +	3A 30 31 53 41 30 30 30 0d	Set success reply: 34 30 31 2B 0D Set fail reply: 34 30 31 2D 0D	
		001 : Vol -	3A 30 31 53 41 30 30 31 0d		
		010 : Up	3A 30 31 53 41 30 31 30 0d		
		011 : Down	3A 30 31 53 41 30 31 31 0d		
		012 : Left	3A 30 31 53 41 30 31 32 0d		
		013 : Right	3A 30 31 53 41 30 31 33 0d		
		014 : Enter	3A 30 31 53 41 30 31 34 0d		
		020 : Menu	3A 30 31 53 41 30 32 30 0d		
		021 : Input	3A 30 31 53 41 30 32 31 0d		
		022 : Back/Exit	3A 30 31 53 41 30 32 32 0d		
		031 : Blank	3A 30 31 53 41 30 33 31 0d		
		032 : Freeze	3A 30 31 53 41 30 33 32 0d		
		033 : Mute	3A 30 31 53 41 30 33 33 0d		
		034 : Home	3A 30 31 53 41 30 33 34 0d		
IR	42	000: Enable	3A 30 31 53 42 30 30 30 0d		
		001: Disable	3A 30 31 53 42 30 30 31 0d		
Speaker	43	000 : off	3A 30 31 53 43 30 30 30 0d		
		001 : on	3A 30 31 53 43 30 30 31 0d		
Touch	44	000 : off	3A 30 31 53 44 30 30 30 0d		Touch disable
		001 : on	3A 30 31 53 44 30 30 31 0d		Touch enable

Description	Cmd (Hex)	Value	Command	Reply	Note
Screen	45	000 : off	3A 30 31 53 45 30 30 30 0d	Set success reply: 34 30 31 2B 0D Set fail reply: 34 30 31 2D 0D	Screen blank
		001 : on	3A 30 31 53 45 30 30 31 0d		Screen off
No Signal Power Off	46	000: off	3A 30 31 53 46 30 30 30 0d		
		001 : 1 minute	3A 30 31 53 46 30 30 31 0d		
		003 : 3 minutes	3A 30 31 53 46 30 30 33 0d		
		005 : 5 minutes	3A 30 31 53 46 30 30 35 0d		
		010 : 10 minutes	3A 30 31 53 46 30 31 30 0d		
		015 : 15 minutes	3A 30 31 53 46 30 31 35 0d		
		030 : 30 minutes	3A 30 31 53 46 30 33 30 0d		
		045 : 45 minutes	3A 30 31 53 46 30 34 35 0d		
		060 : 60 minutes	3A 30 31 53 46 30 36 30 0d		

Description	Cmd (Hex)	Value	Command	Reply	Note
On/Off Timer	47	Byte1~Byte15 (1) Byte1: Decide which Timer is selected Byte1=0x1~0x07. There are totally 7 Timers, this value is used to decide which Timer is			
		(2) Byte2: 0x00 or 0x01, 0x00:Sunday disable; 0x01:Sunday enable	On Timer: 09:08 sun 3A 30 31 53 47 01 01 00 00 00 00 00 00 01 19 18 00 00 00 00 0D		
		(3) Byte3: 0x00 or 0x01, 0x00:Monday ble;0x01:Monday enable	Off Timer: 10:10 mon/ frday 3A 30 31 53 47 02 00 01 00 00 00 01 00 00 00 00 01 1A 1A 00 0D	Set success reply: 34 30 31 2B 0D Set fail reply: 34 30 31 2D 0D	3A 30 31 53 47 Byte1 Byte2 Byte3 Byte4 Byte5 Byte6 Byte7 Byte8 Byte9 0d
		(4) Byte4: 0x00 or 0x01, 0x00:Tuesday disable; 0x01:Tuesday enable			
		(5) Byte5: 0x00 or 0x01, 0x00:Wednesday disable; 0x01:Wednesday enable	Onf/Off Timer: 09:08/10:10 sun 3A 30 31 53 47 01 01 00 00 00 00 00 00 01 19 18 01 1A 1A 00 0D		
		(6) Byte6: 0x00 or 0x01, 0x00:Thursday disable; 0x01:Thursday enable			
		(7) Byte7: 0x00 or 0x01, 0x00:Friday disable; 0x01:Friday enable			

Description	Cmd (Hex)	Value	Command	Reply	Note
On/Off Timer	47	(8) Byte8: 0x00 or 0x01, 0x00:Saturday disable; 0x01:Saturday enable			
		(9) Byte9: 0x00 or 0x01, 0x00: On Timer is disable; 0x01:On Timer is enable	On Timer: 09:08 sun 3A 30 31 53 47 01 01 00 00 00 00 00 00 01 19 18 00 00 00 00 0D		
		(10) Byte10: The Hour of the On Timer. yte3=0x10~0x27. (decimal range: 16-39, Our program will subtract 16, the hour range is 0 to 23)	Off Timer: 10:10 mon/ frday 3A 30 31 53 47 02 00 01 00 00 00 01 00 00 00 00 01 1A 1A 00 0D	Set success reply: 34 30 31 2B 0D Set fail reply: 34 30 31 2D 0D	3A 30 31 53 47 Byte1 Byte2 Byte3 Byte4 Byte5 Byte6 Byte7 Byte8 Byte9 0d
		(11) Byte11: The Minute of the On Timer. yte4=0x10~0x4B. (decimal range: 16-75, Our program will subtract 16, the minute range is 0 to 59)	Onf/Off Timer: 09:08/10:10 sun 3A 30 31 53 47 01 01 00 00 00 00 00 00 01 19 18 01 1A 1A 00 0D		
		(12) Byte12: 0x00 or 0x01, 0x00: Off Timer is disable; 0x01:Off Timer is enable			

Description	Cmd (Hex)	Value	Command	Reply	Note
On/Off Timer	47	(13) Byte13: The Hour of the Off Timer. yte5=0x10~0x27. (decimal range: 16-39, Our program will subtract 16, the hour range is 0 to 23)	On Timer: 09:08 sun 3A 30 31 53 47 01 01 00 00 00 00 00 00 01 19 18 00 00 00 00 0D	Set success reply: 34 30 31 2B 0D Set fail reply: 34 30 31 2D 0D	3A 30 31 53 47 Byte1 Byte2 Byte3 Byte4 Byte5 Byte6 Byte7 Byte8 Byte9 0d
		(14) Byte14: The Minute of the Off Timer. yte6=0x10~0x4B. (decimal range: 16-75, Our program will subtract 16, the minute range is 0 to 59)	Off Timer: 10:10 mon/frday 3A 30 31 53 47 02 00 01 00 00 00 01 00 00 00 00 01 1A 1A 00 0D		
		(15) Byte15: Treserved, and should be 0x00.	Onf/Off Timer: 09:08/10:10 sun 3A 30 31 53 47 01 01 00 00 00 00 00 00 01 19 18 01 1A 1A 00 0D		
		If both byte9 and byte12 are set to disabled, it will delete the target timer if it exists			
HDMI Out	50	000 : off	3A 30 31 53 50 30 30 30 0d		
		001 : auto	3A 30 31 53 50 30 30 31 0d		
		002 : HDCP1.4	3A 30 31 53 50 30 30 32 0d		
		003 : HDCP2.2	3A 30 31 53 50 30 30 33 0d		
Android Enable	51	000: off	3A 30 31 53 51 30 30 30 0d		
		001: on	3A 30 31 53 51 30 30 31 0d		

Regulatory and Service Information

Compliance Information

This section addresses all connected requirements and statements regarding regulations. Confirmed corresponding applications shall refer to nameplate labels and relevant markings on the unit.

Declaration of RoHS2 Compliance

This product has been designed and manufactured in compliance with Directive 2011/65/EU of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS2 Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr6 ⁺)	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%
Bis (2-ethylhexyl) phthalate (DEHP)	0.1%	< 0.1%
Butyl benzyl phthalate (BBP)	0.1%	< 0.1%
Dibutyl phthalate (DBP)	0.1%	< 0.1%
Diisobutyl phthalate (DIBP)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex III of the RoHS2 Directives as noted below:

- Copper alloy containing up to 4% lead by weight.
- Lead in high melting temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound.
- Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher.

ENERGY STAR Statement

ENERGY STAR is a U.S. Environmental Protection Agency voluntary program that helps businesses and individuals save money and protect our climate through superior energy efficiency. Products that earn the ENERGY STAR prevent greenhouse gas emissions by meeting strict energy efficiency criteria or requirements set by the U.S. Environmental Protection Agency.

As an ENERGY STAR Partner, ViewSonic is determined to meet the Energy star Guidelines and mark all certified models with the ENERGY STAR logo. The following logo appears on all ENERGY STAR-certified models:



Note: The power management features significantly reduce energy consumption when the product is not in use. Power management allows the device to automatically enter a low power “sleep” mode after a defined period of inactivity. And the power management features also enter Sleep Mode or Off Mode within 5 minutes of being disconnected from a host computer. Please note any change in energy settings will increase energy consumption.

Indian Restriction of Hazardous Substances

Restriction on Hazardous Substances statement (India). This product complies with the “India E-waste Rule 2011” and prohibits use of lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers in concentrations exceeding 0.1 weight % and 0.01 weight % for cadmium, except for the exemptions set in Schedule 2 of the Rule.

Product Disposal at End of Product Life

ViewSonic® respects the environment and is committed to working and living green. Thank you for being part of Smarter, Greener Computing. Please visit the ViewSonic® website to learn more.

USA & Canada:

<https://www.viewsonic.com/us/go-green-with-viewsonic>

Europe:

<https://www.viewsonic.com/eu/environmental-social-governance/recycle>

Taiwan:

<https://recycle.moenv.gov.tw/>

For EU users, please contact us for any safety/accident issue experienced with this product:

ViewSonic Europe Limited



Haaksbergweg 75
1101 BR Amsterdam
Netherlands



+31 (0) 650608655



EPREL@viewsoniceurope.com



<https://www.viewsonic.com/eu/>

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Microsoft, Windows, and the Windows logo are registered trademarks of Microsoft Corporation in the United States and other countries.

ViewSonic® and the three birds logo are registered trademarks of ViewSonic® Corporation.

VESA is a registered trademark of the Video Electronics Standards Association. DPMS, DisplayPort, and DDC are trademarks of VESA.

ENERGY STAR® is a registered trademark of the U.S. Environmental Protection Agency (EPA).

As an ENERGY STAR® partner, ViewSonic® Corporation has determined that this product meets the ENERGY STAR® guidelines for energy efficiency.

Disclaimer: ViewSonic® Corporation shall not be liable for technical or editorial errors or omissions contained herein; nor for incidental or consequential damages resulting from furnishing this material, or the performance or use of this product.

In the interest of continuing product improvement, ViewSonic® Corporation reserves the right to change product specifications without notice. Information in this document may change without notice.

No part of this document may be copied, reproduced, or transmitted by any means, for any purpose without prior written permission from ViewSonic® Corporation.

Customer Service

For technical support or product service, see the table below or contact your reseller.

Note: You will need the product's serial number.

Country/ Region	Website	Country/ Region	Website
Asia Pacific & Africa			
Australia	www.viewsonic.com/au/	Bangladesh	www.viewsonic.com/bd/
中国 (China)	www.viewsonic.com.cn	香港 (繁體中文)	www.viewsonic.com/hk/
Hong Kong (English)	www.viewsonic.com/hk-en/	India	www.viewsonic.com/in/
Indonesia	www.viewsonic.com/id/	Israel	www.viewsonic.com/il/
日本 (Japan)	www.viewsonic.com/jp/	Korea	www.viewsonic.com/kr/
Malaysia	www.viewsonic.com/my/	Middle East	www.viewsonic.com/me/
Myanmar	www.viewsonic.com/mm/	Nepal	www.viewsonic.com/np/
New Zealand	www.viewsonic.com/nz/	Pakistan	www.viewsonic.com/pk/
Philippines	www.viewsonic.com/ph/	Singapore	www.viewsonic.com/sg/
臺灣 (Taiwan)	www.viewsonic.com/tw/	ประเทศไทย	www.viewsonic.com/th/
Việt Nam	www.viewsonic.com/vn/	South Africa & Mauritius	www.viewsonic.com/za/
Americas			
United States	www.viewsonic.com/us	Canada	www.viewsonic.com/us
Latin America	www.viewsonic.com/la		
Europe			
Europe	www.viewsonic.com/eu/	France	www.viewsonic.com/fr/
Deutschland	www.viewsonic.com/de/	Қазақстан	www.viewsonic.com/kz/
Россия	www.viewsonic.com/ru/	España	www.viewsonic.com/es/
Türkiye	www.viewsonic.com/tr/	Україна	www.viewsonic.com/ua/
United Kingdom	www.viewsonic.com/uk/		

Limited Warranty

ViewSonic® Smart White Board

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, and as your sole remedy, repair or replace the product with a similar product. Replacement Product or parts may include remanufactured or refurbished parts or components. The repair or replacement unit or parts or components will be covered by the balance of the time remaining on the customer's original limited warranty and the warranty period will not be extended. ViewSonic® provides no warranty for any third-party software whether included with the product or installed by the customer, installation of any unauthorized hardware parts or components (e.g. Projector Lamps). (Please refer to: "What the warranty excludes and does not cover" section).

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified, or removed.
- Damage, deterioration, or malfunction resulting from:
 - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
 - » Repair or attempted repair by anyone not authorized by ViewSonic®.
 - » Damage to or loss of any programs, data, or removable storage media.
 - » Normal wear and tear.
 - » Removal or installation of the product.
- Software or data loss occurring during repair or replacement.
- Any damage of the product due to shipment.
- Causes external to the product, such as electric power fluctuations or failure.
- Use of supplies or parts not meeting ViewSonic's specifications.
- Failure of owner to perform periodic product maintenance as stated in the User Guide.
- Any other cause which does not relate to a product defect.

- Damage caused by static (non-moving) images displayed for lengthy periods of time (also referred to as image burn-in).
- Software - Any third-party software included with the product or installed by the customer.
- Hardware/Accessories/Parts/Components – Installation of any unauthorized hardware, accessories, consumable parts or components (e.g. Projector Lamps).
- Damage to, or abuse of, the coating on the surface of the display through inappropriate cleaning as described in the product User Guide.
- Removal, installation, and set-up service charges, including wall-mounting of the product.

How to get service:

- For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the “Customer Service” page). You will need to provide your product’s serial number.
- To obtain warranty service, you will be required to provide: (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
- Take or ship the product, freight prepaid, in the original container to an authorized ViewSonic® service center or ViewSonic®.
- For additional information or the name of the nearest ViewSonic® service center, contact ViewSonic®.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic® shall not be liable for:

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic® products sold outside of the U.S.A. and Canada, contact ViewSonic® or your local ViewSonic® dealer.

The warranty period for this product in mainland China (Hong Kong, Macao, and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found at: <http://www.viewsonic.com/eu/> under "Support/Warranty Information".

Mexico Limited Warranty

ViewSonic® Smart White Board

What the warranty covers:

ViewSonic® warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic® will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components & accessories.

Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

What the warranty excludes and does not cover:

- Any product on which the serial number has been defaced, modified or removed.
- Damage, deterioration, or malfunction resulting from:
 - » Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, unauthorized attempted repair, or failure to follow instructions supplied with the product.
 - » Causes external to the product, such as electrical power fluctuations or failure.
 - » Use of supplies or parts not meeting ViewSonic®'s specifications.
 - » Normal wear and tear.
 - » Any other cause which does not relate to a product defect.
- Any product exhibiting a condition commonly known as “image burn-in” which results when a static image is displayed on the product for an extended period of time.
- Removal, installation, insurance, and set-up service charges.

How to get service:

For information about receiving service under warranty, contact ViewSonic® Customer Support (Please refer to the attached “Customer Service” page). You will need to provide your product’s serial number, so please record the product information in the space provided below on your purchase for your future use. Please retain your receipt of proof of purchase to support your warranty claim.

For Your Records

Product Name: _____ Model Number: _____
Document Number: _____ Serial Number: _____
Purchase Date: _____ Extended Warranty Purchase? _____(Y/N)
If so, what date does warranty expire? _____

- To obtain warranty service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.
- Take or ship the product, in the original container packaging, to an authorized ViewSonic® service center.
- Round trip transportation costs for in-warranty products will be paid by ViewSonic®.

Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

Exclusion of damages:

ViewSonic®’s liability is limited to the cost of repair or replacement of the product. ViewSonic® shall not be liable for:

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.
- Repair or attempted repair by anyone not authorized by ViewSonic®.

Contact Information for Sales & Authorized Service (Centro Autorizado de Servicio) within Mexico:	
Name, address, of manufacturer and importers: México, Av. de la Palma #8 Piso 2 Despacho 203, Corporativo Interpalmas, Col. San Fernando Huixquilucan, Estado de México Tel: (55) 3605-1099 http://www.viewsonic.com/la/sopORTE/index.htm	
NÚMERO GRATIS DE ASISTENCIA TÉCNICA PARA TODO MÉXICO: 001.866.823.2004	
Hermosillo: Distribuciones y Servicios Computacionales SA de CV. Calle Juárez 284 local 2 Col. Bugambillas C.P: 83140 Tel: 01-66-22-14-9005 E-Mail: disc2@hmo.megared.net.mx	Villahermosa: Compumantenimientos Garantizados, S.A. de C.V. AV. GREGORIO MENDEZ #1504 COL, FLORIDA C.P. 86040 Tel: 01 (993) 3 52 00 47 / 3522074 / 3 52 20 09 E-Mail: compumantenimientos@prodigy.net.mx
Puebla, Pue. (Matriz): RENTA Y DATOS, S.A. DE C.V. Domicilio: 29 SUR 721 COL. LA PAZ 72160 PUEBLA, PUE. Tel: 01(52).222.891.55.77 CON 10 LINEAS E-Mail: datos@puebla.megared.net.mx	Veracruz, Ver.: CONEXION Y DESARROLLO, S.A DE C.V. Av. Americas # 419 ENTRE PINZÓN Y ALVARADO Fracc. Reforma C.P. 91919 Tel: 01-22-91-00-31-67 E-Mail: gacosta@qplus.com.mx
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