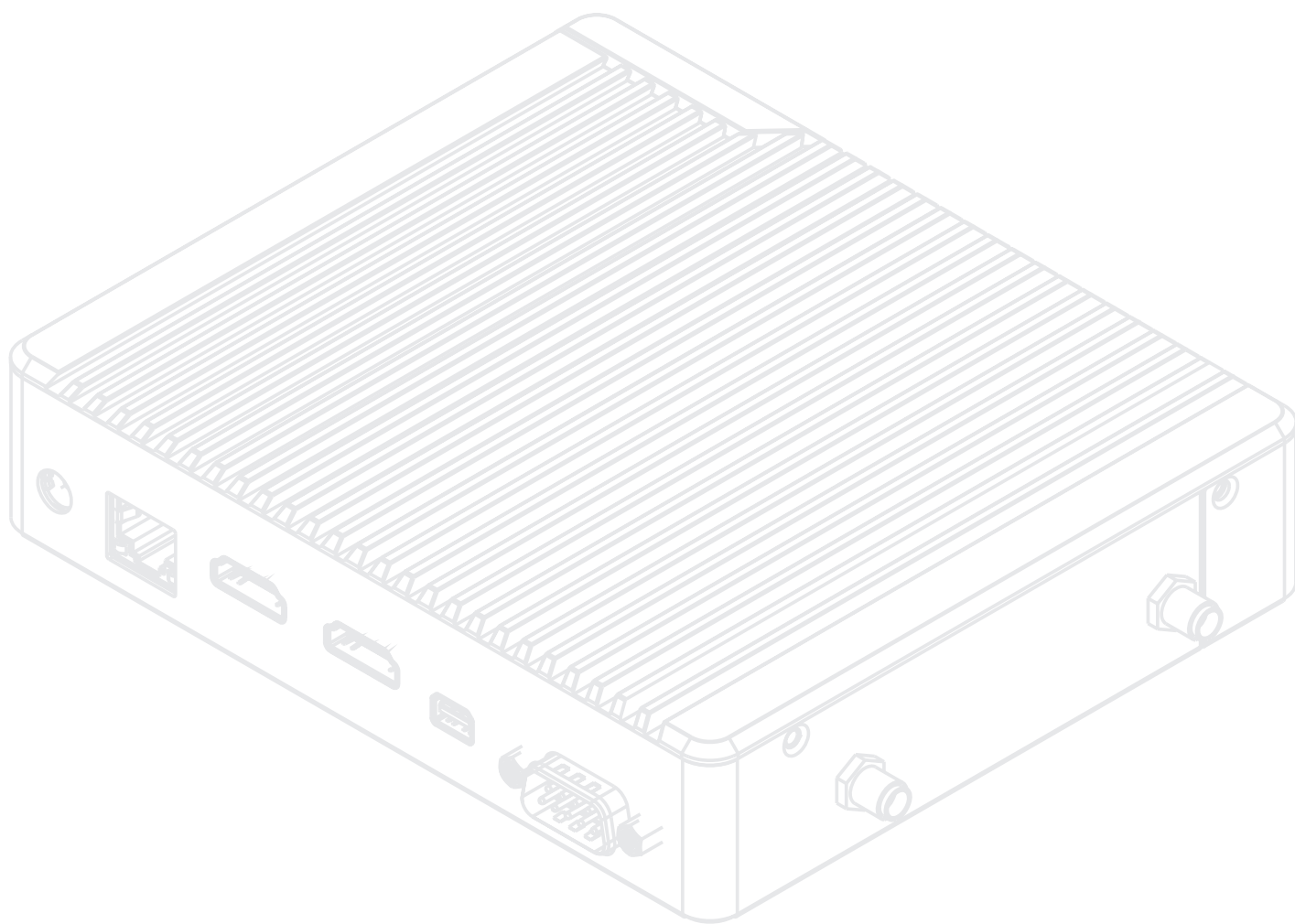


VBS200-A

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. VS19294
P/N: VBS200-A

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®!

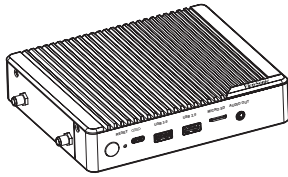
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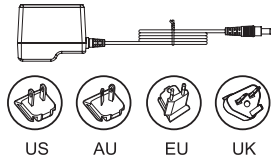
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Introduction

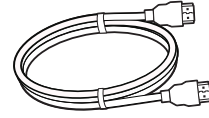
Package Contents



VBS200-A



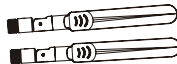
Power Adapter



HDMI Cable (1.8 m)



RS-232 Adapter



Antenna x 2

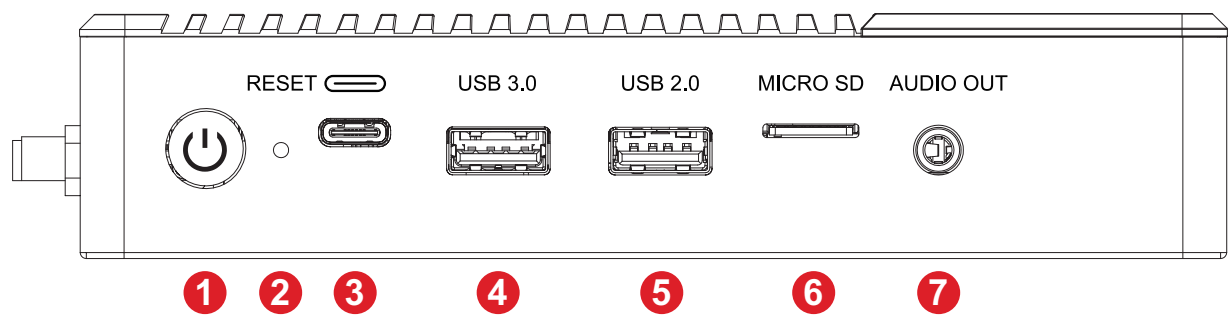


Quick Start Guide

NOTE: If anything is missing or damaged, please contact your local reseller for more information.

Product Overview

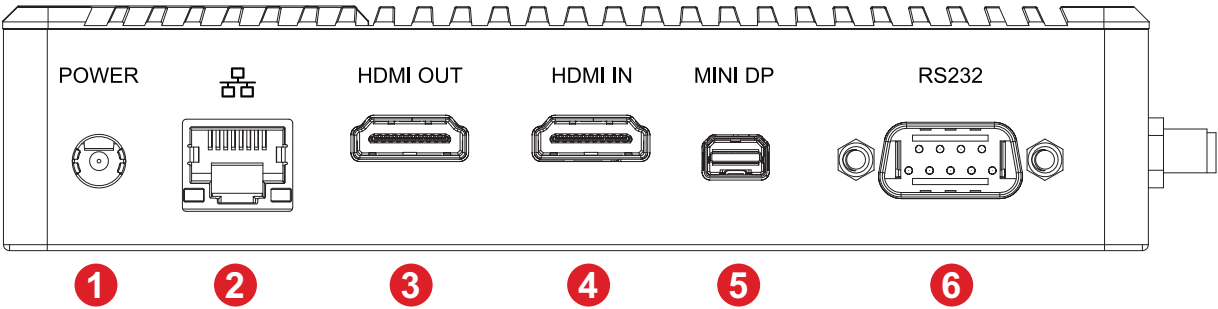
Front View



Number	Item	Description
1	Power Button	• Power On (Green light) • Power Off (No light) • When the VBS200-A system is On, pressing the Power Button will put the VBS200-A into Sleep Mode.
2	Reset	Hardware reset of the device.
3	USB 2.0 C Port	USB 2.0, 500mA ¹
4	USB 3.0 A Port	USB 3.0, 900mA ¹
5	USB 2.0 A Port	USB 2.0, 500mA ¹
6	MicroSD	Read/Write MicroSD card
7	AUDIO OUT	Audio signal output (3.5 mm DAC)

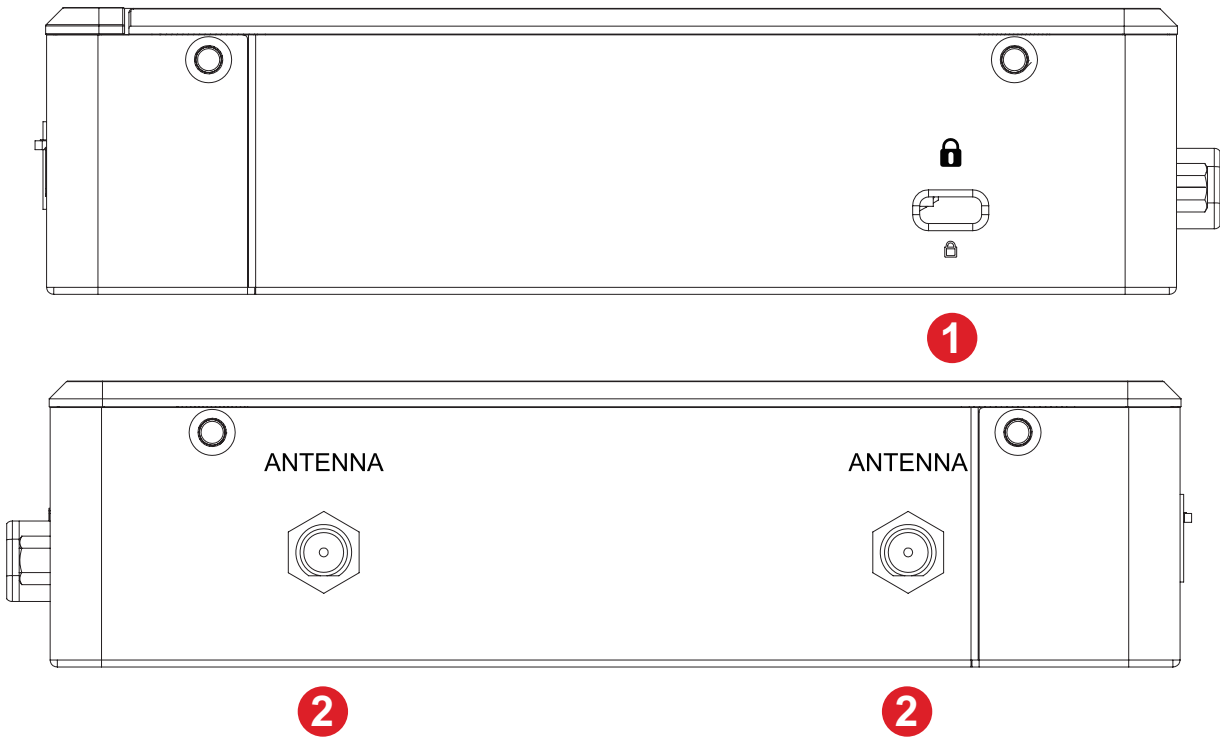
¹ Supports USB and UVC devices/Touch Back/Hot swapping and plugging

Rear View



Number	Item	Description	
1	DC IN	12V, system power input connector	
2	GB-LAN (RJ45)	- PoE-IEEE 802.3at class4 (PD Input: 12v-2A , 24W) - Recommend PSE IEEE 802.3at class4 (Output: 30W)	
		<u>Status Indicator</u>	
		Status	Description
		Yellow (Flashing)	Active link
		Yellow (Off)	Inactive link.
		Green (On)	Active link with 100M speed
3	HDMI OUT	Version 2.0; output video to an external display via HDMI.	
4	HDMI IN	Version 1.4; connect to a video device with HDMI output.	
5	MINI DP	Output video to an external display via DisplayPort.	
6	RS-232	Connects the display (IFP or Projector) to an external computer. Certain functions can be controlled remotely by the computer, including power on/off, volume adjustment and more.	

Side View



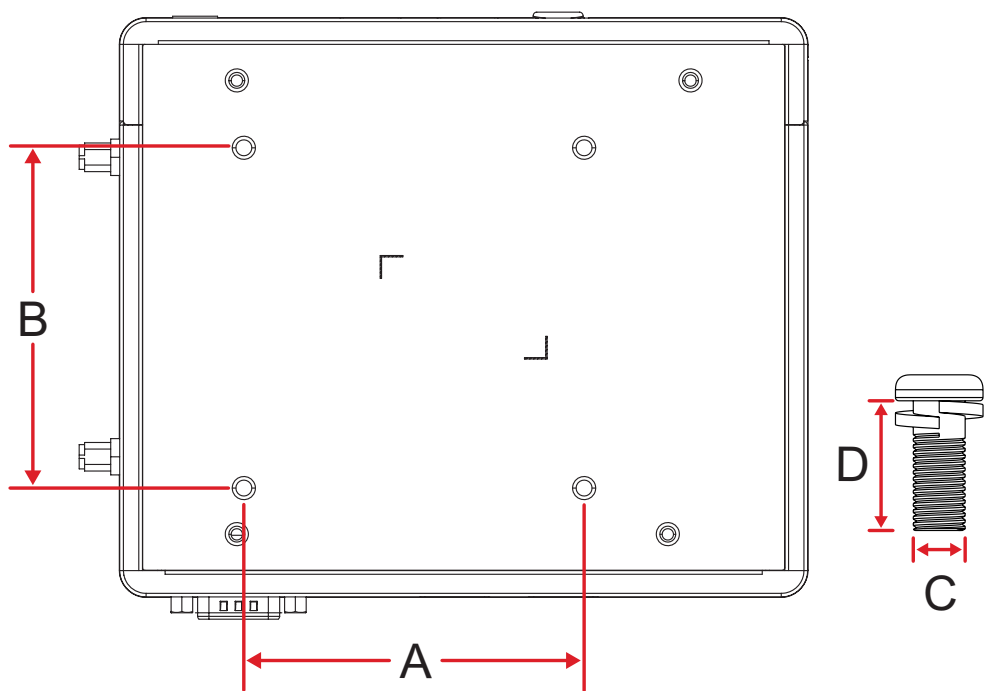
Number	Item	Description
1	Security Slot	Secure the device to a fixed object for increased security and safety.
2	Antenna	Connect the included antennas to increase signal strength.

Mounting Kit

Mount Kit Specifications

NOTE:

- Please follow the instructions in the ViewSonic wall mount installation guide to install your wall mount or mobile mount bracket.
- If attaching to other building materials, please make sure the bracket mounting pattern matches the mounting pattern on the VBS200-A. Please contact your nearest dealer for more details.



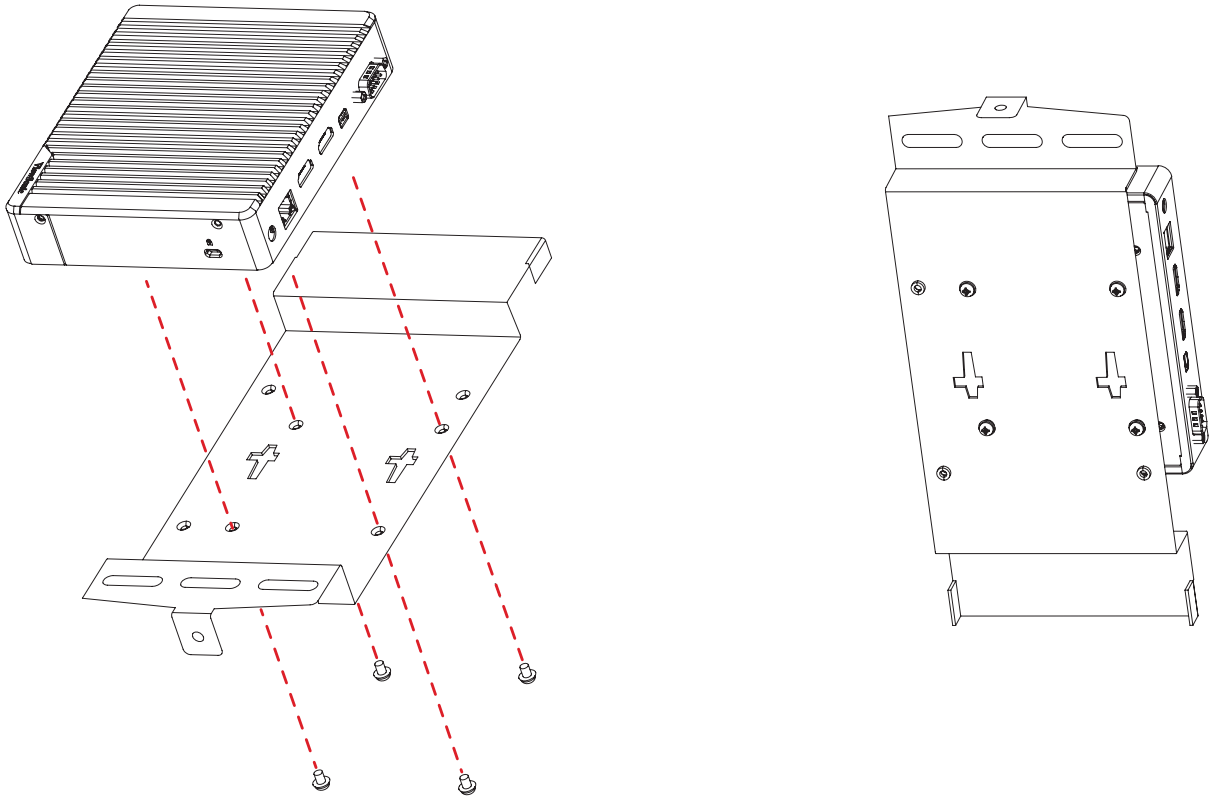
Model	Mounting Spec. (A x B)	Standard Screw (C x D)	Quantity
VBS200-A	75 mm x 75 mm	M4 x 8 mm	4

NOTE: Do not use screws longer than the standard dimensions listed, as they may cause damage to the inside of the device.

Mounting the VBS200-A (optional)

Using the VB-WMK-001/VB-STND-001

The VBS200-A can be mounted to the rear of your display accessory using the slide-on mini PC bracket as shown below:

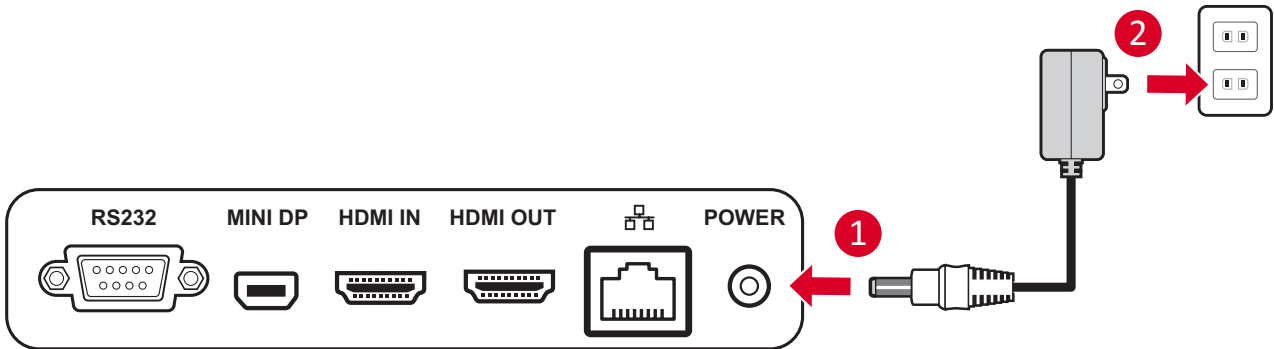


Making Connections

Connecting to Power

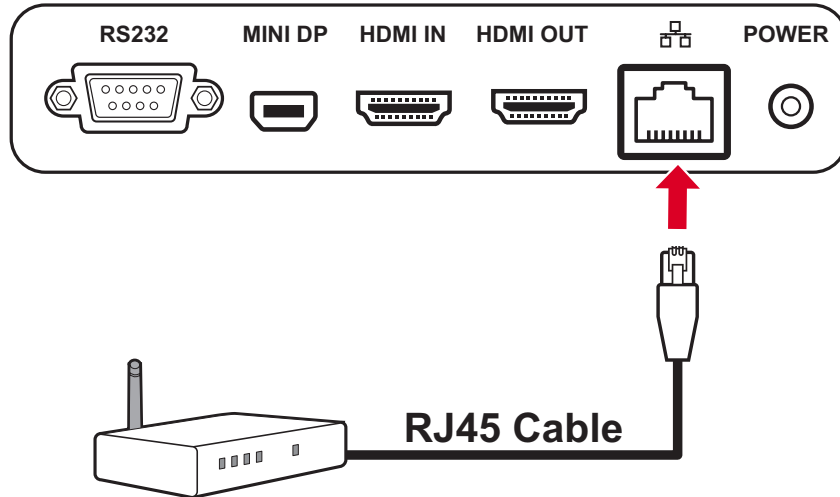
AC Adapter

1. Connect the power cord to the **POWER** jack at the rear of the VBS200-A.
2. Plug the AC adapter into a power outlet.



PoE (Power over Ethernet)

The VBS200-A supports PoE (Power over Ethernet) when connected to a Power Device (PD) or Power Source Equipment (PSE) and can power itself via the **LAN** port.



1. Connect a Power Device (PD) or Power Source Equipment (PSE) to a power outlet.
2. Connect one end of a RJ45 cable to the Power Device (PD)/Power Source Equipment (PSE).
3. Connect the other end of the RJ45 cable to the **LAN** port of the VBS200-A.

NOTE: If both **AC Adapter** and **PoE** power sources are available, the VBS200-A will use the AC adapter as the main power source.

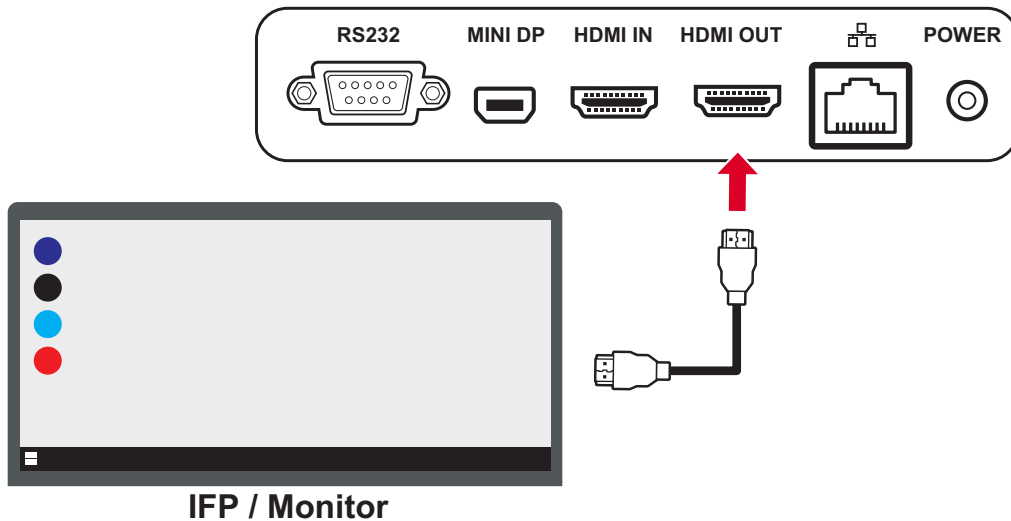
Connecting to External Devices

Display Device Connection

The VBS200-A can connect to an external display via HDMI or DisplayPort.

HDMI Out Connection

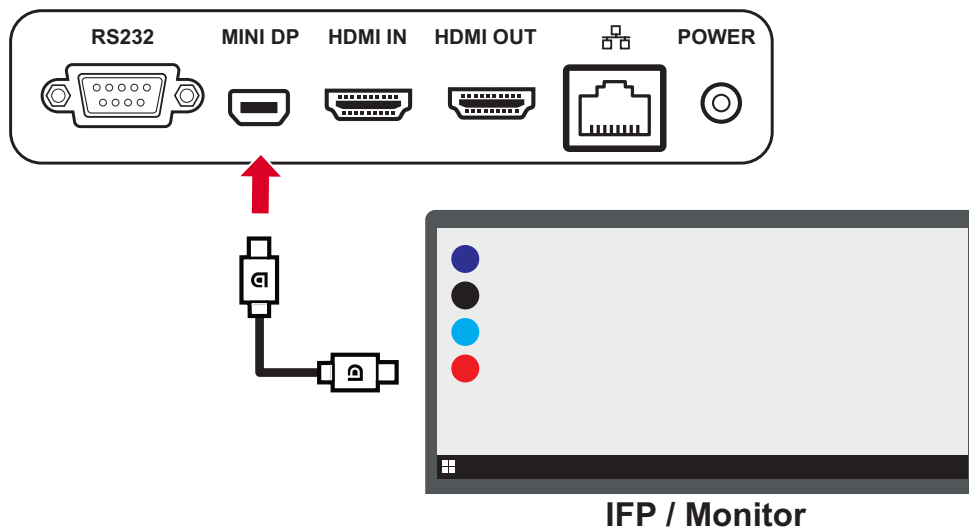
To display content from the VBS200-A, connect one end of an HDMI cable to the HDMI port of your display device. Then connect the other end of the cable to the **HDMI OUT** port of the VBS200-A.



NOTE: Connect the HDMI cable between the IFP/Monitor and VBS200-A before plugging in the power adapter. Otherwise, the IFP/Monitor can only output FHD and not 4K resolution.

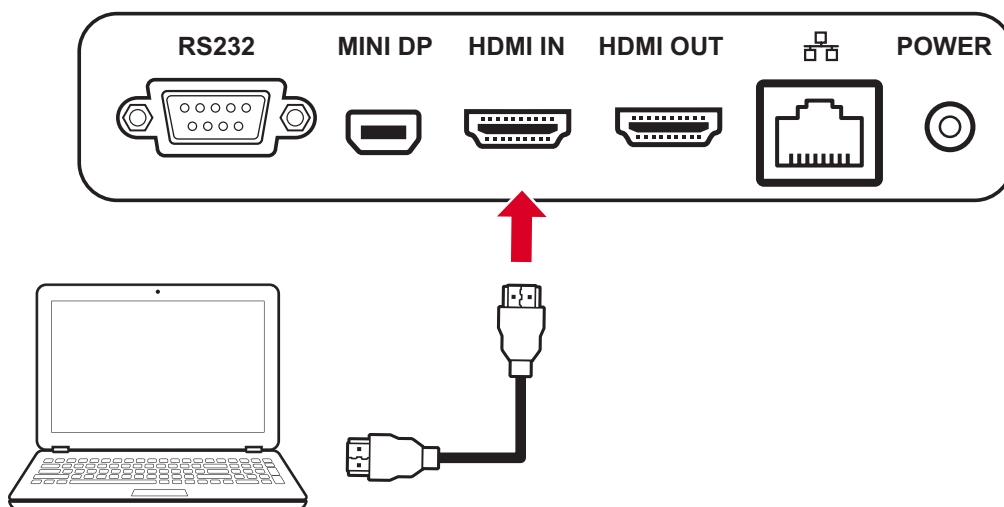
Mini DP Connection

To display content from the VBS200-A, connect one end of a DisplayPort cable to the DisplayPort port of your display device. Then connect the other end of the cable to the **MINI DP** port of the VBS200-A.



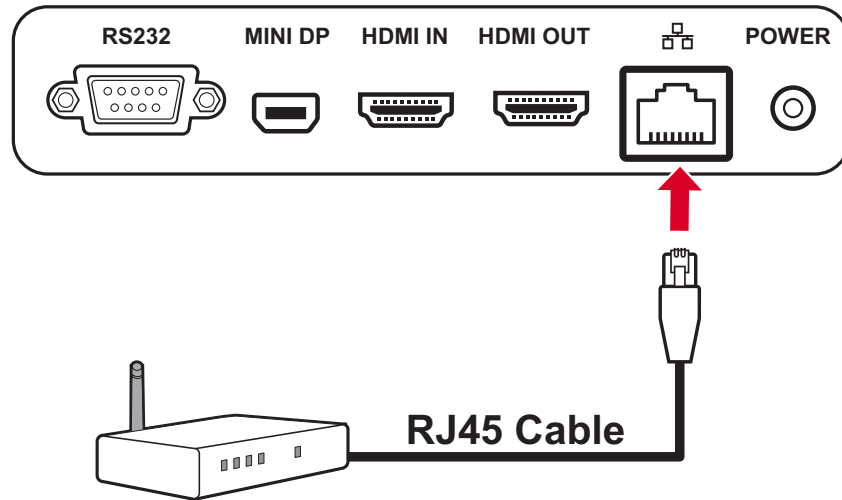
HDMI In Connection

To display content from an external device through the VBS200-A, connect an HDMI cable from the external device to the **HDMI IN** port of the VBS200-A.



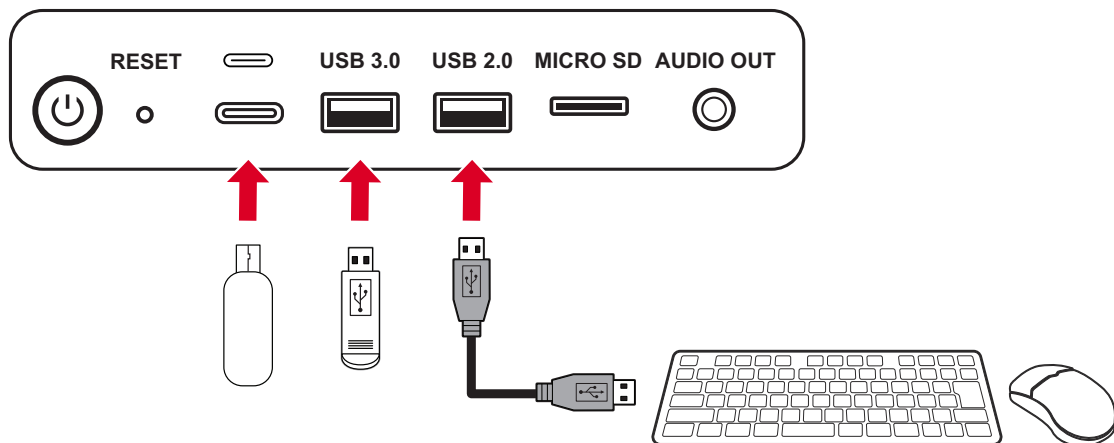
Network Connection (Local Area Network)

To connect to the Internet or a network, connect one end of a RJ45 cable to the **LAN** port of the VBS200-A, then connect the other end to your network.



USB Connection (Keyboard, Mouse, Storage Device, etc.)

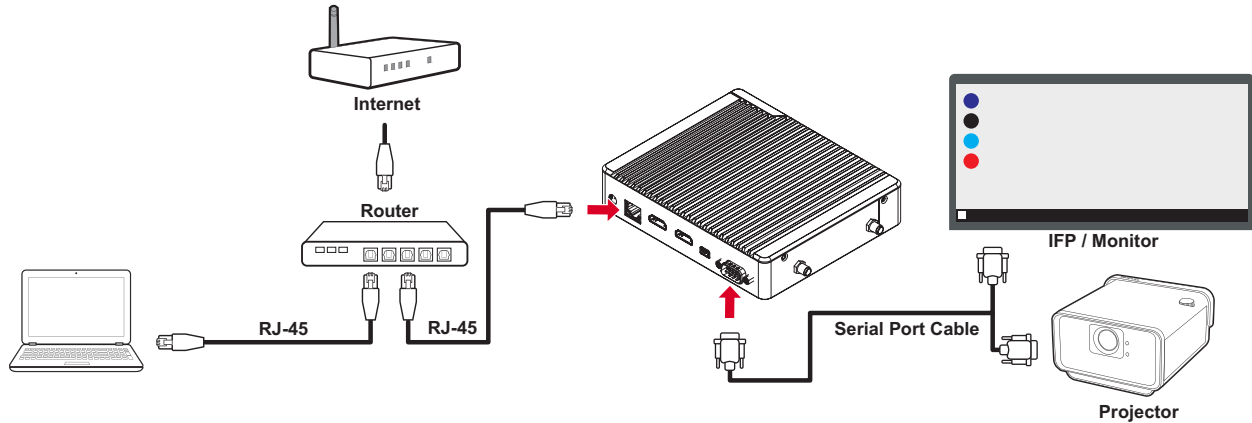
USB peripherals such as keyboards, mice, storage devices, etc. can be connected to the VBS200-A's USB ports.



RS-232 Connection

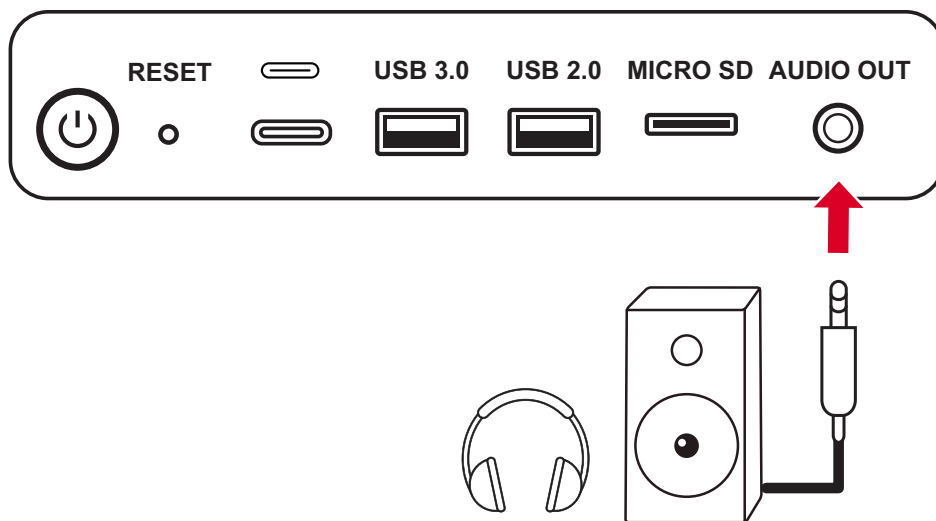
When you use a RS-232 serial port cable to connect the VBS200-A to an external computer, certain functions can be controlled remotely by the PC, including power on/off, volume adjustment, and input source selection.

NOTE: Set the baud rate of all control devices to 9600 bps.



Audio Connection

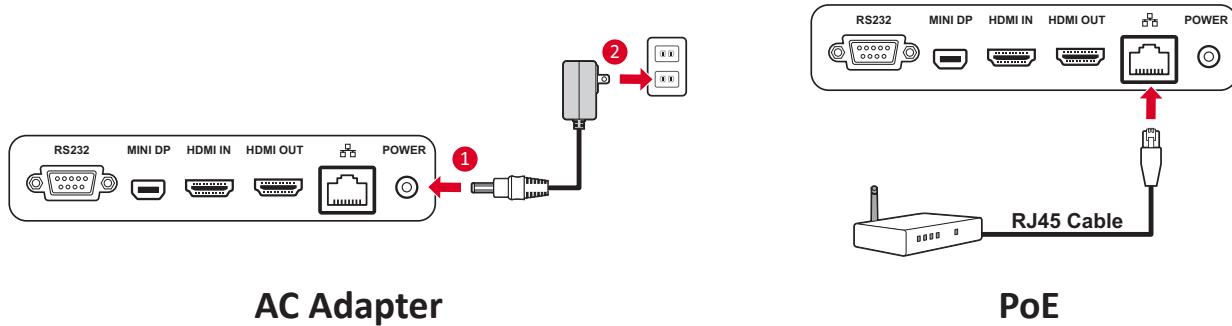
Connect an audio cable from your external audio device to the **AUDIO OUT** port on the VBS200-A.



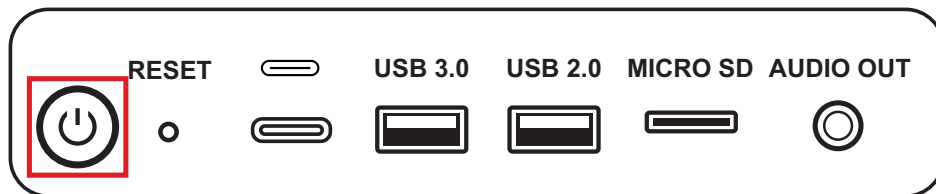
Using the Device

Powering On/Off the VBS200-A

1. Ensure the VBS200-A is connected either via AC Adapter or PoE. For more information, see page 11.



2. Press the **Power** (⏻) button to turn on the VBS200-A.

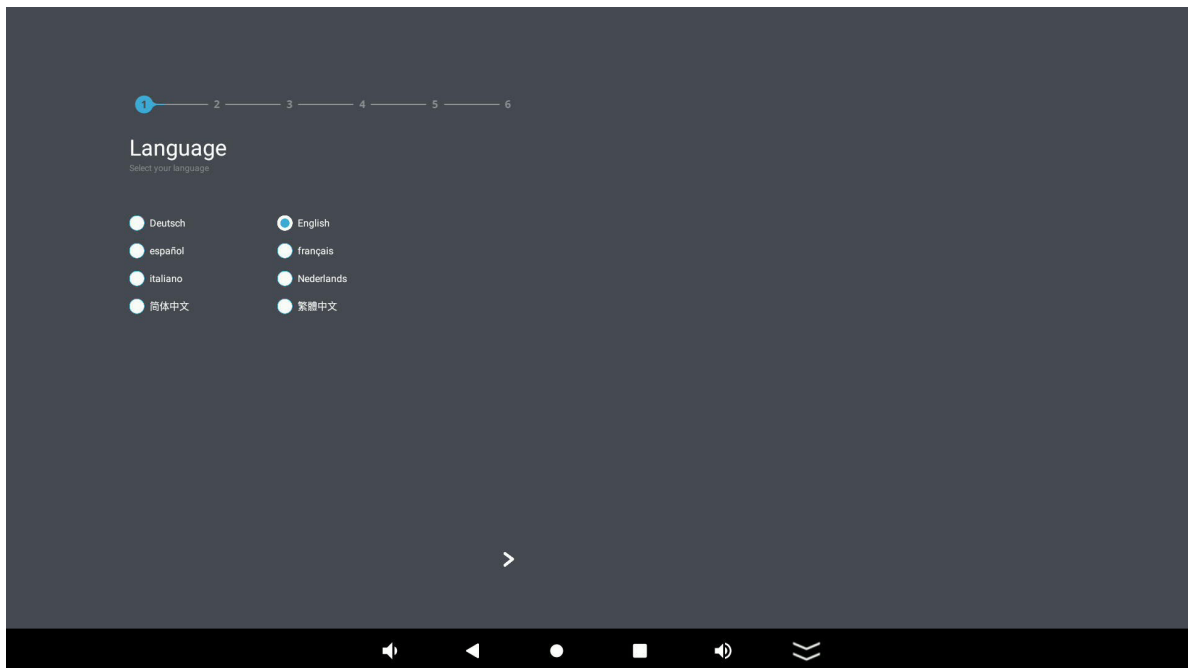


3. To turn the VBS200-A off, press and hold the **Power** (⏻) button.

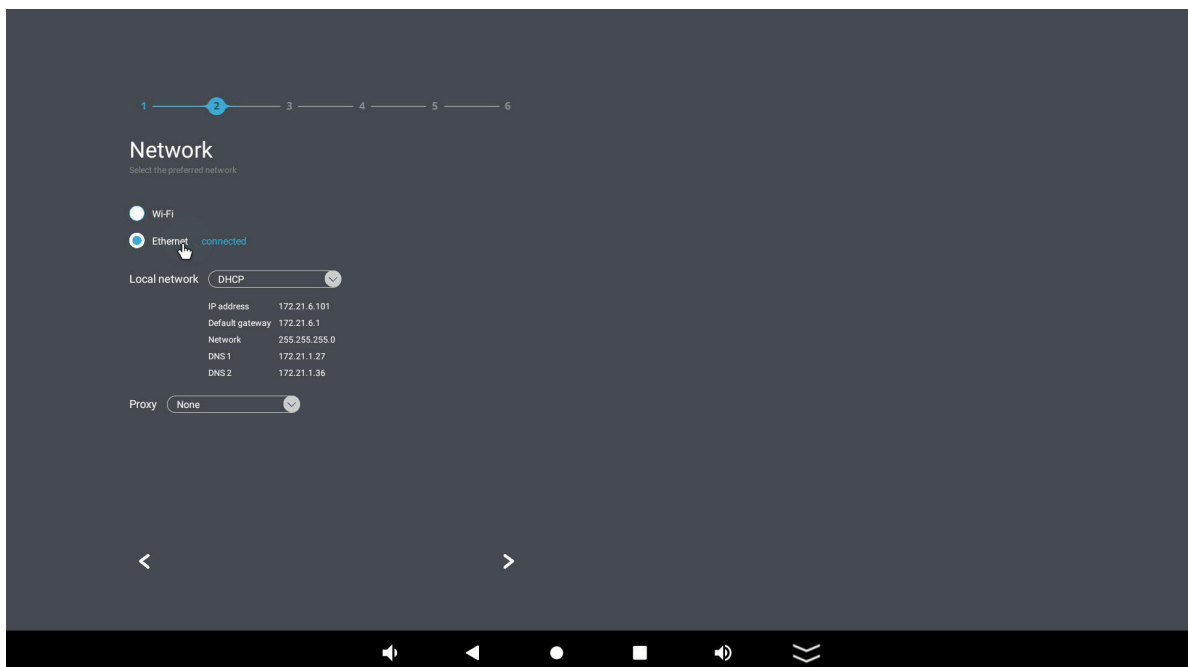
Initial Launch Setup

When you first turn on your VBS200-A, an initial setup wizard will launch. Please follow the on-screen instructions to set up the VBS200-A.

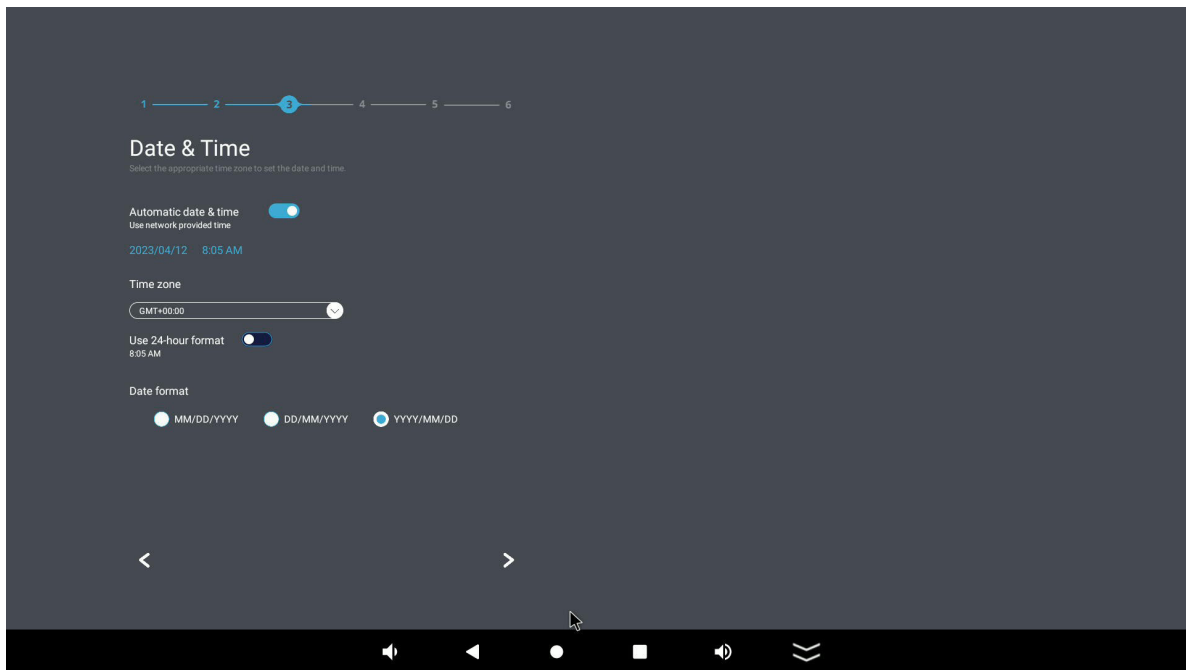
1. Select your Language.



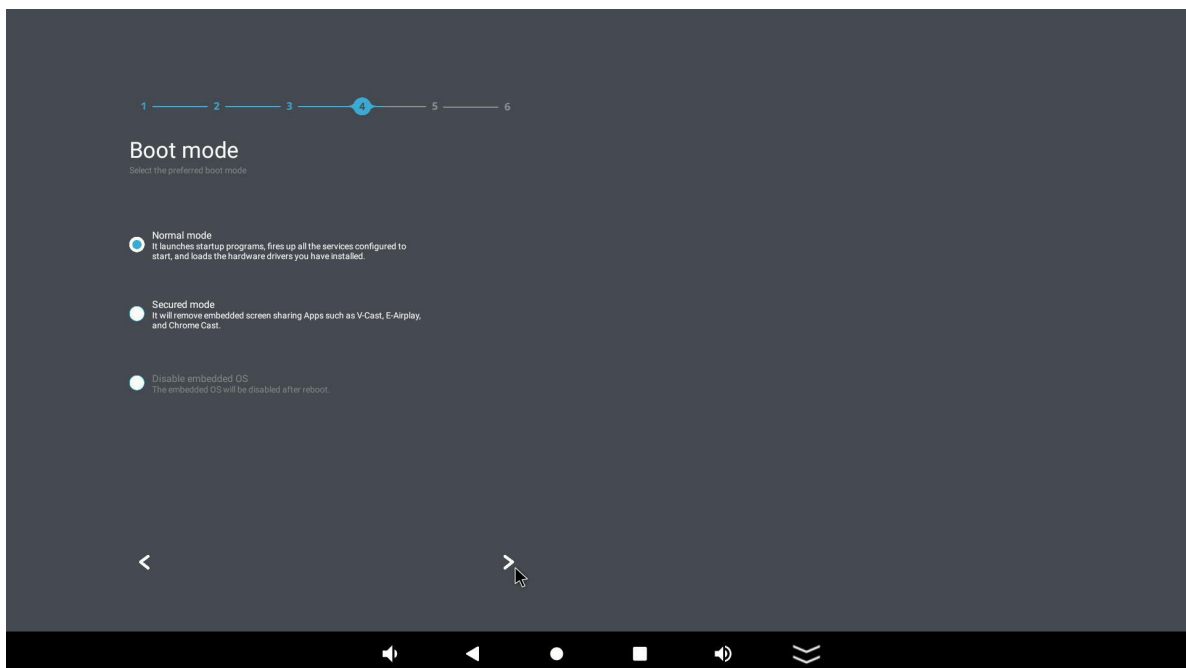
2. Setup and verify your Network connection. Both Wi-Fi and Ethernet connections are supported.



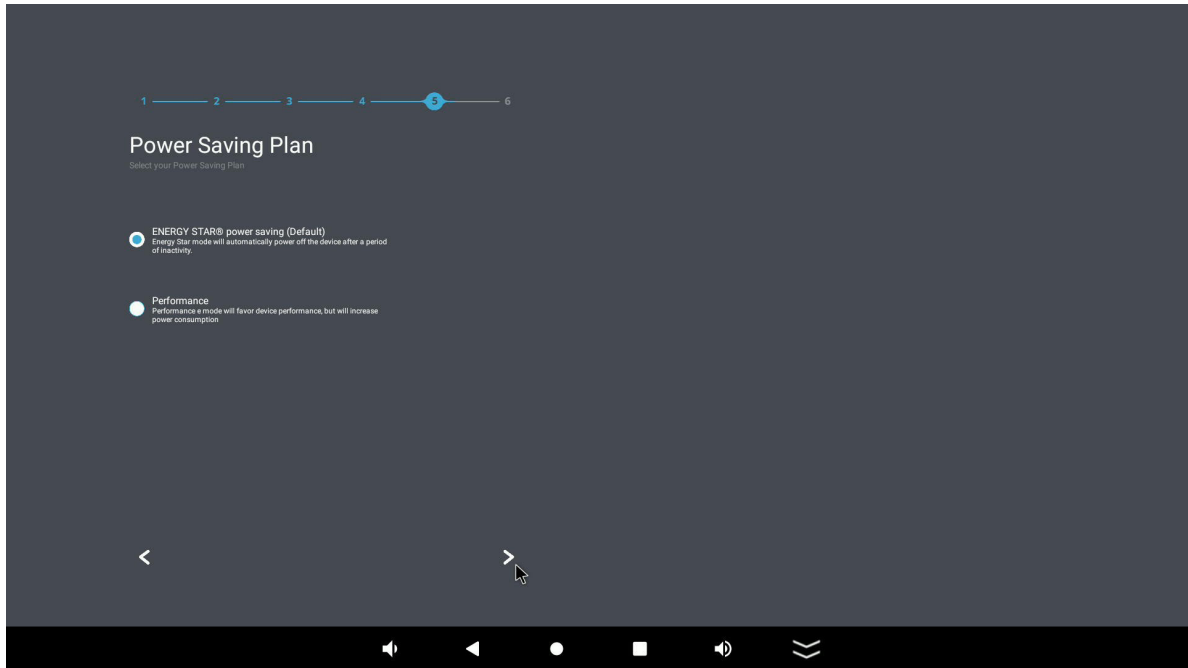
3. Set the Date & Time.



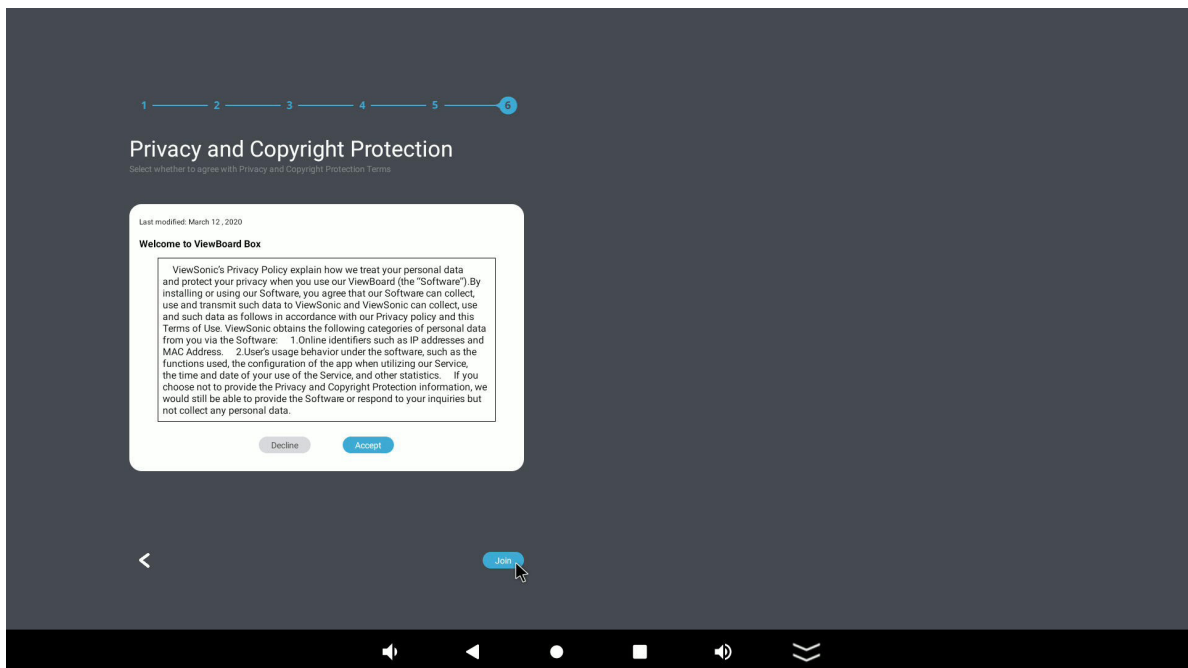
4. Select your preferred System Mode. Choose between Normal and Secured Mode. In Secured Mode, preloaded applications with screen sharing capabilities will be hidden.



5. Choose your Power Saving Plan. In the default setting, the VBS200-A will go into standby mode after an hour of inactivity.



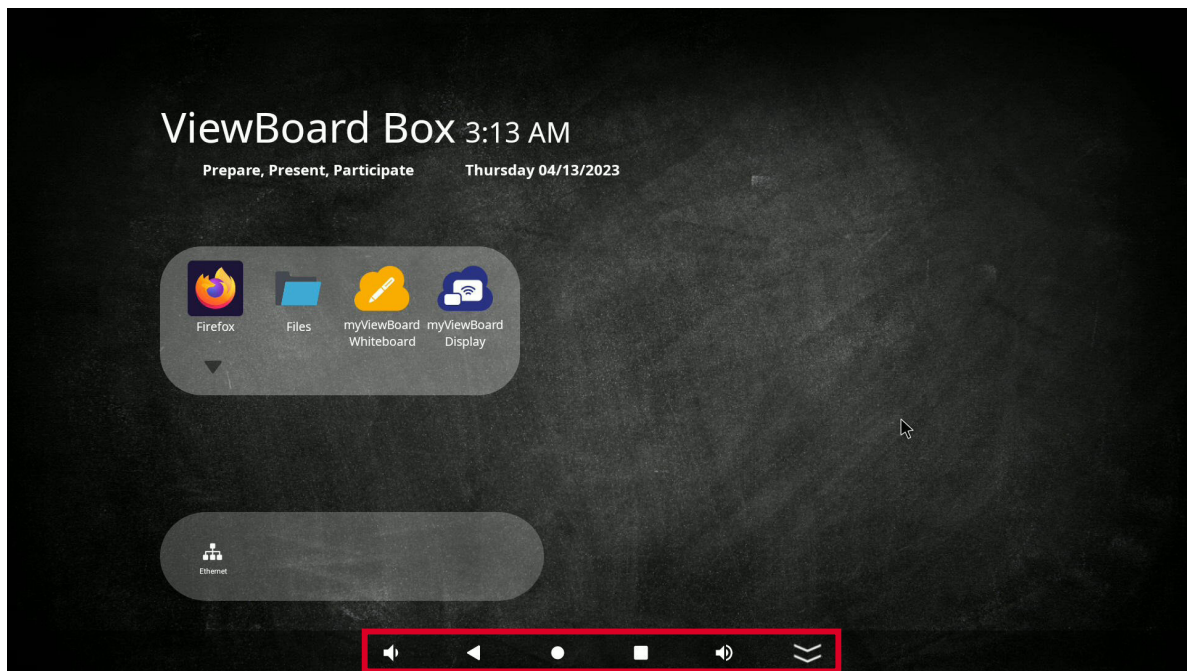
6. Review and Accept/Decline the Privacy and Copyright Protection terms.



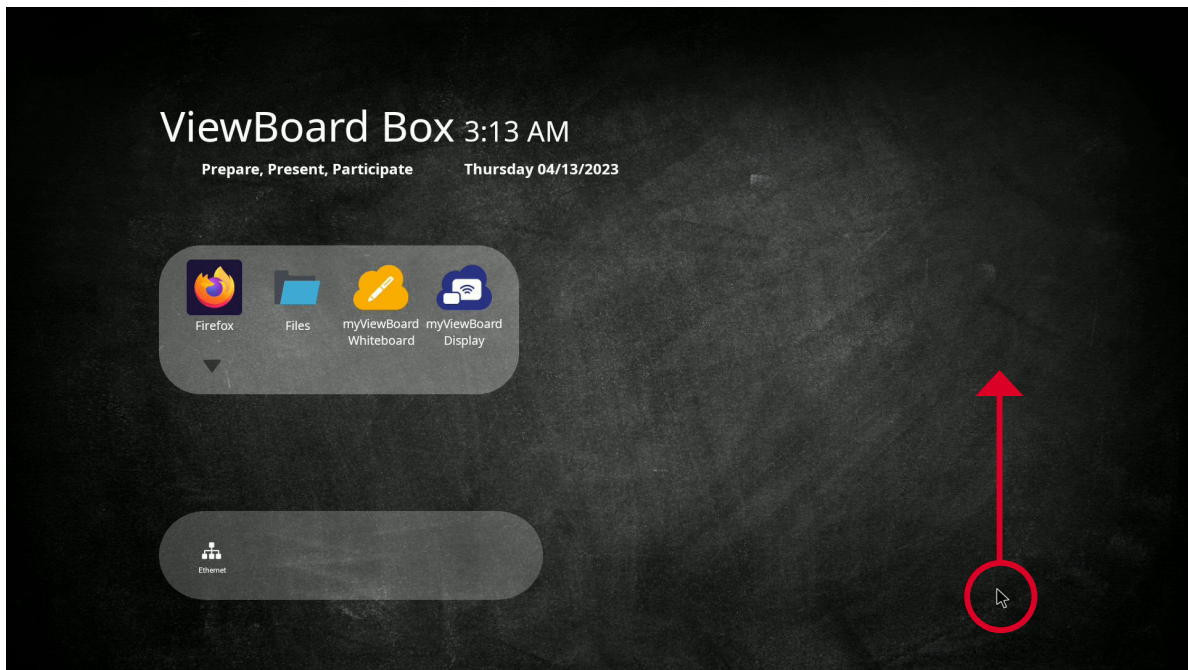
vLauncher - Home Screen

Action Bar

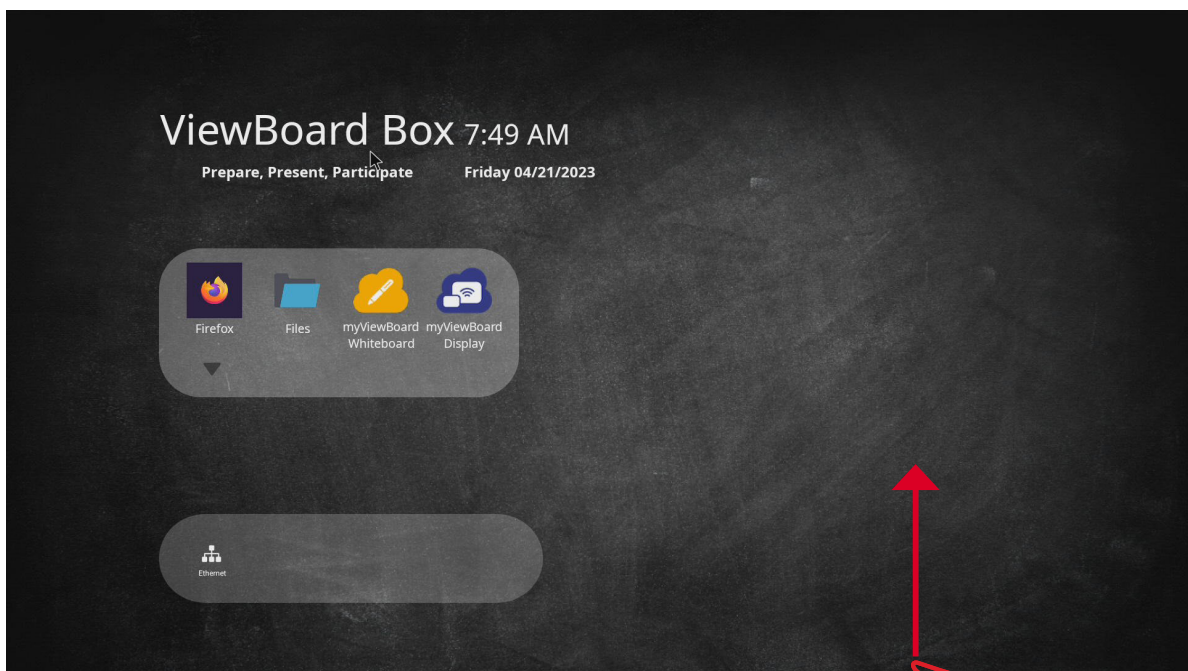
The Action Bar gives quick access to several controls.



The Action Bar can be triggered by moving the mouse cursor or your finger (if your display device supports a touch back function) upwards from the bottom of the home screen.



Mouse Cursor



Gesture Control

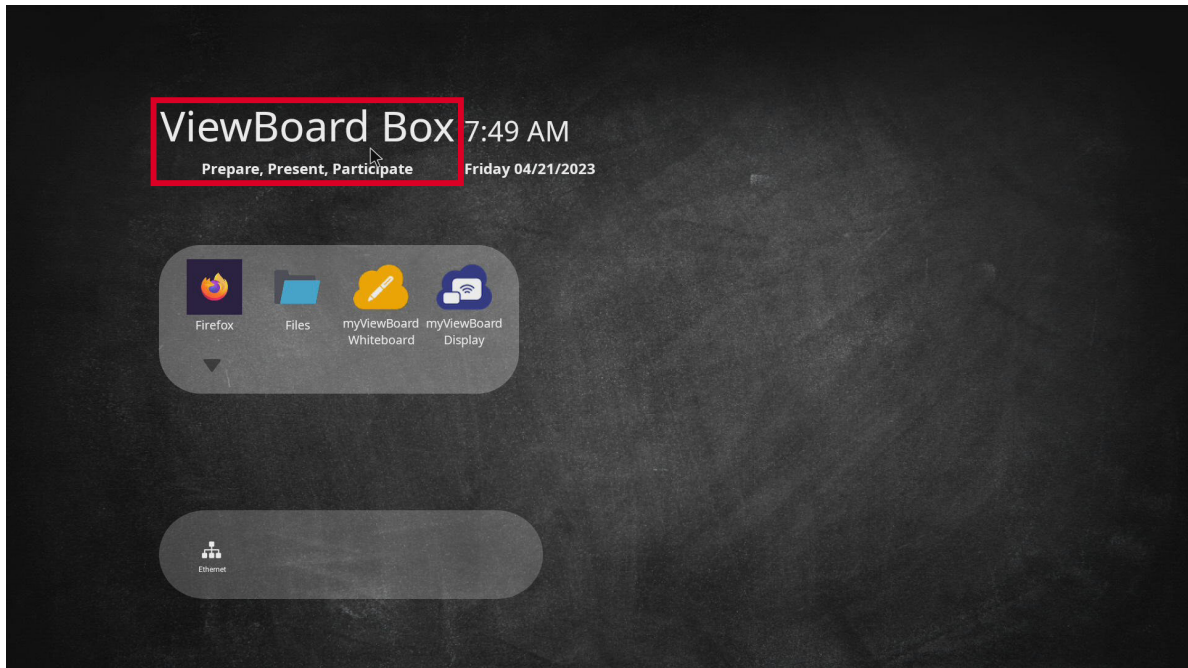
Action Bar Icons



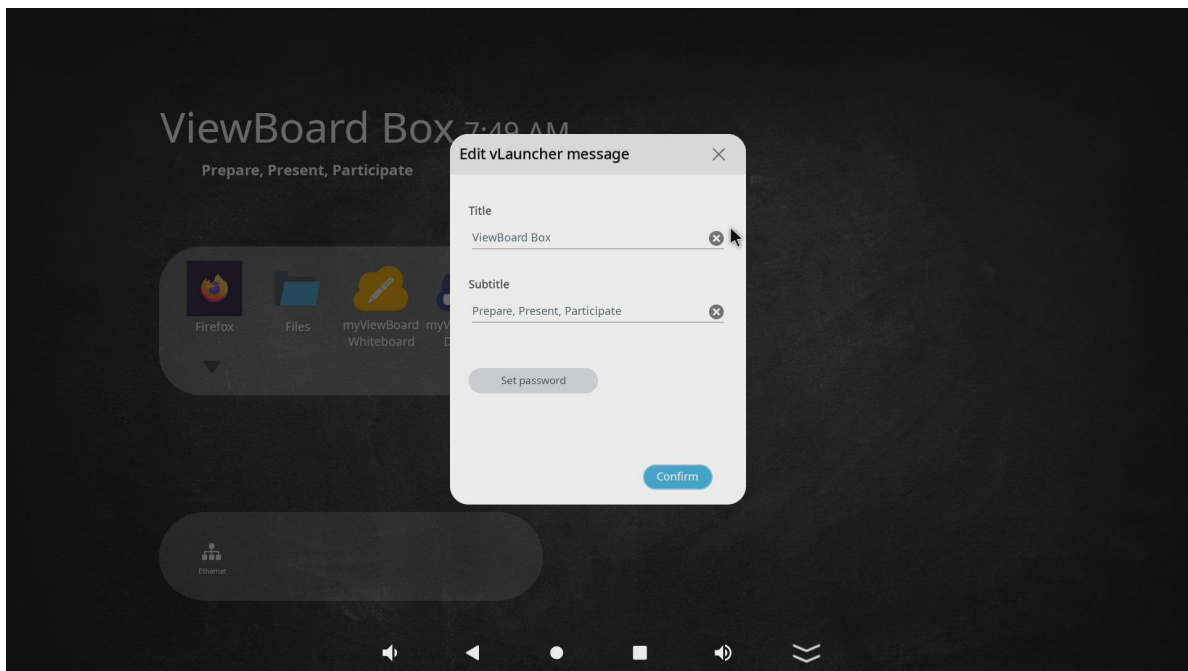
Icon		Description
	Volume Down	Decrease the volume level.
	Return	Go back to the previous page.
	Home	Return to the vLauncher (Home Screen).
	App Shortcut	Show the currently open applications.
	Volume Up	Increase the volume level.
	Hide	Hide the Action Bar.

vLauncher Message

Both the vLauncher *Title* and *Subtitle* can be customized by selecting them.

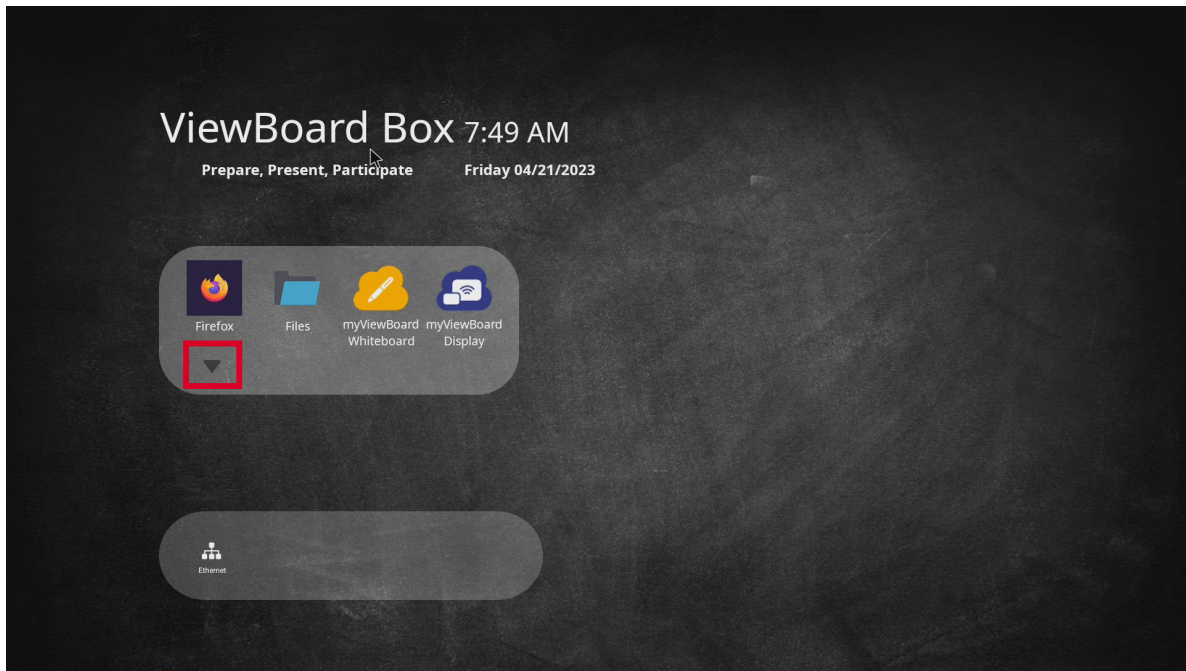


Additionally, a password can be set by selecting **Set Password**.

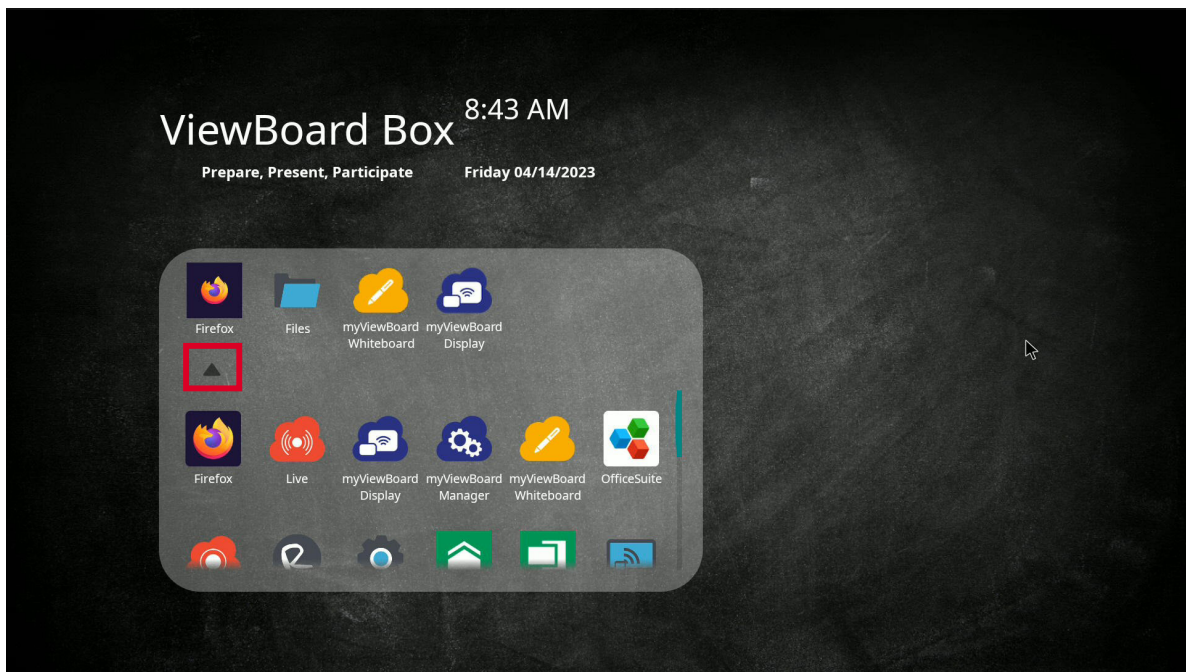


Applications

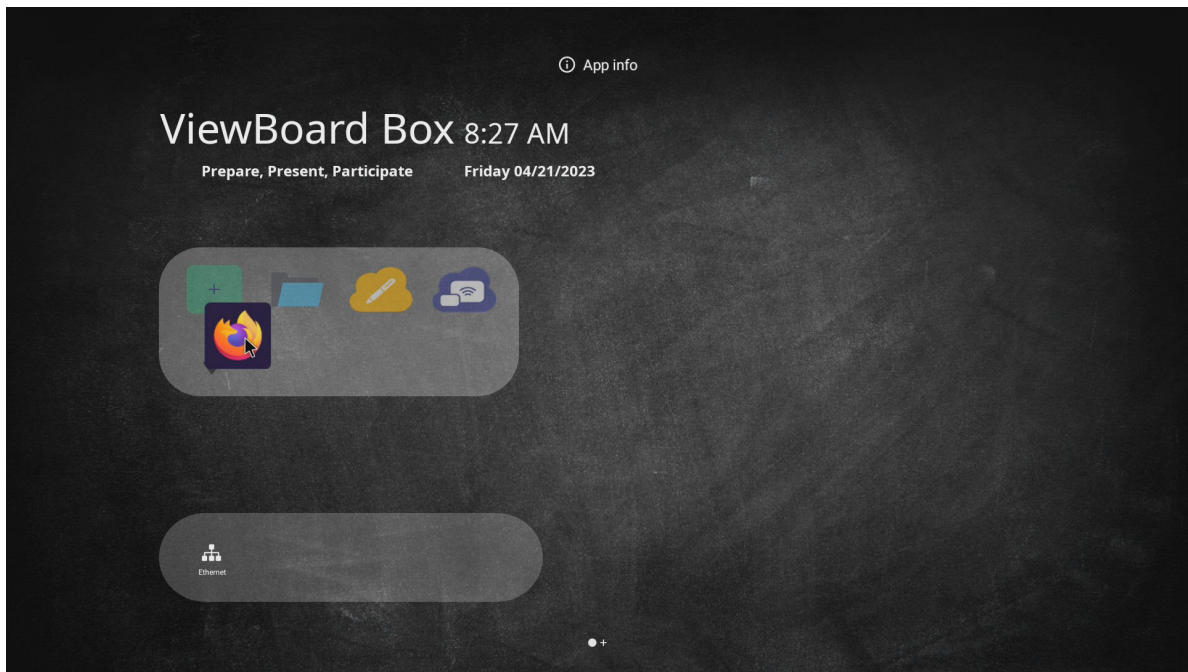
Installed applications can all be found on the welcome screen. To view all applications select the downwards arrow (▼).



To hide the application drawer, select the upwards arrow (▲).

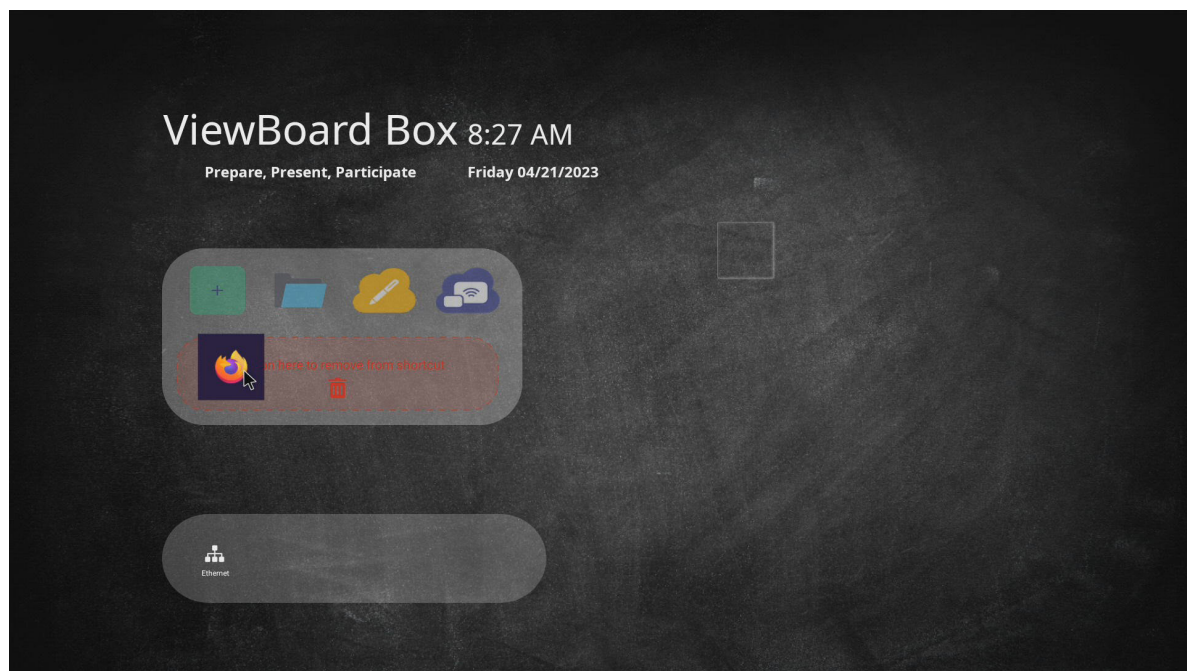


To add an application to the top applications list, select, hold, and drag the icon up.

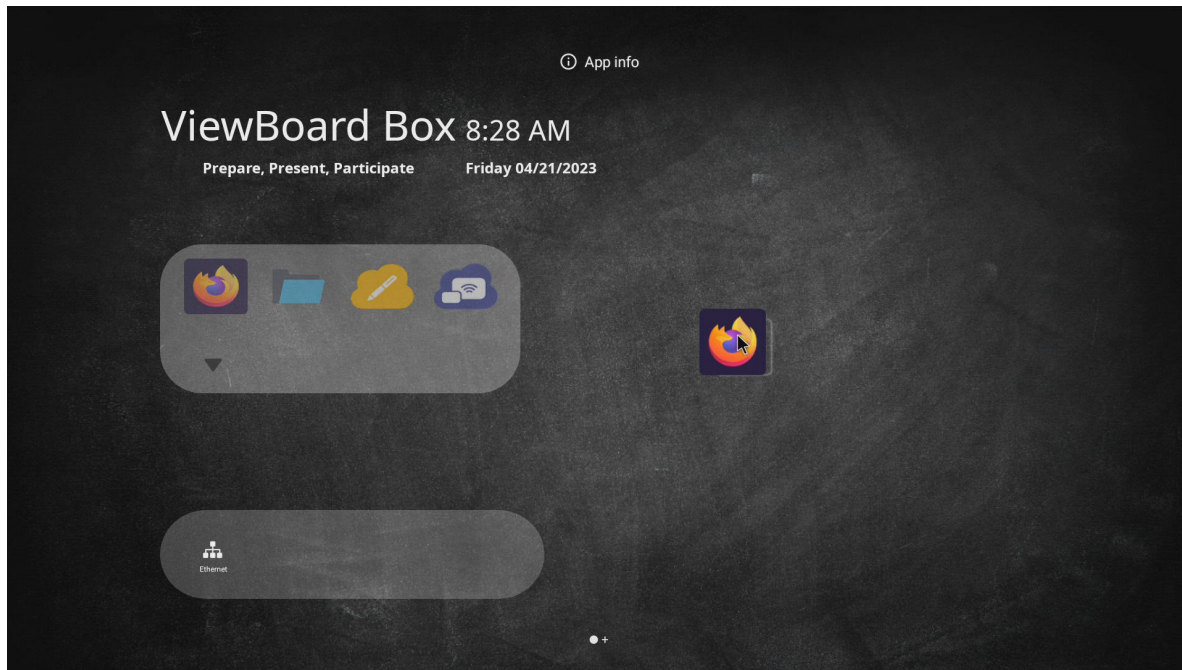


NOTE: Only four (4) application shortcuts can be added to the top applications list.

To remove an application from the top applications list, select, hold, and drag the icon down.



An application can also be added outside the application drawer. Simply select, hold, and drag the icon out.

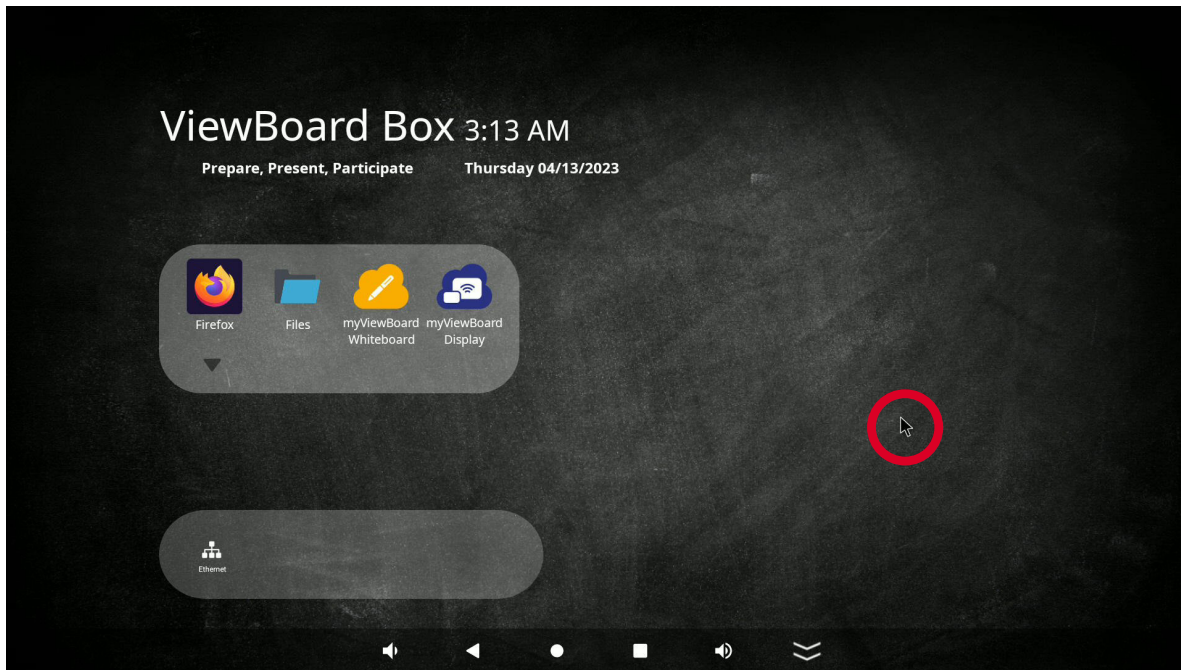


Preloaded Applications

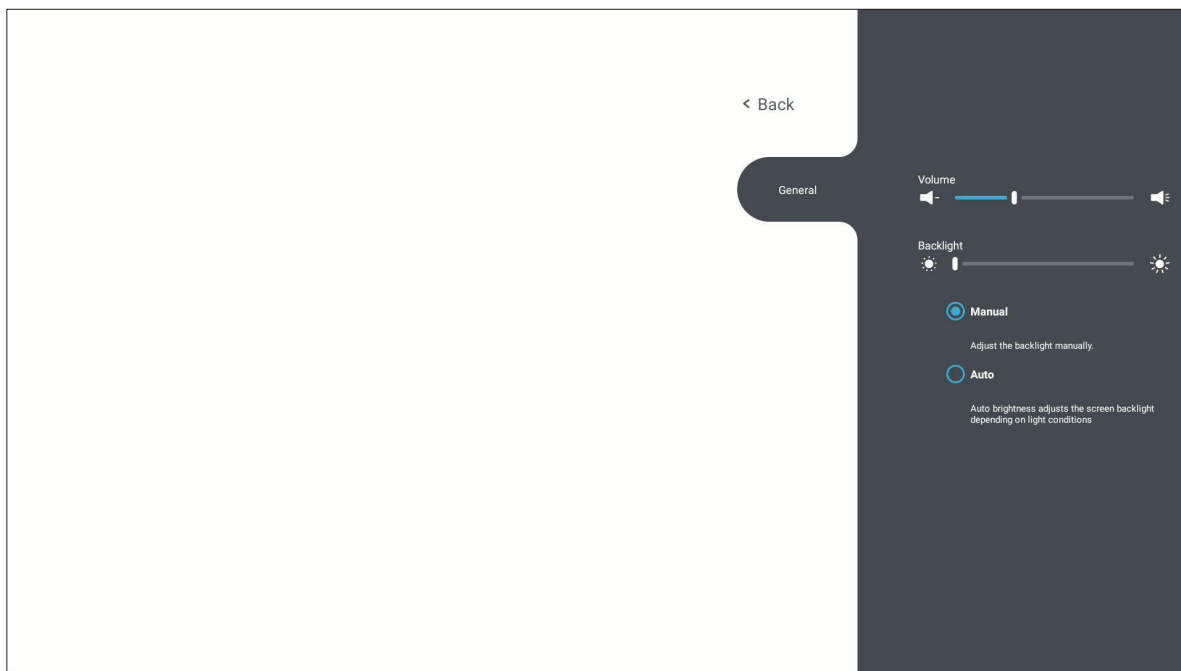
Icon		Description
	Files	Open, save, export, etc. files.
	Firefox	Web browser for surfing the Internet.
	Live	Stream whiteboarding sessions.
	myViewBoard Display	Wirelessly mirror your screen to another display.
	myViewBoard Manager	IT management of installed ViewSonic hardware.
	myViewBoard Whiteboard	Digital whiteboarding software.
	OfficeSuite	Create, edit, and view Documents, Spreadsheets, Presentations, and PDFs.
	Record	Record, view, and save on-screen content.
	RevelDigital Player	Works with the RevelDigital management portal and provides the public-facing content for your own digital signage network.
	Settings	View and adjust system settings.
	Signage Launcher	Works with the ViewSonic Signage Manager portal and provides the public-facing content for your own digital signage network.
	Signage Player	Adjust what to allow the Signage application to access (Camera, Microphone, File and Media in your system).
	vCastReceiver	Wirelessly screen cast from your device.
	vSweeper	Clear unnecessary data and unwanted files.

On-Screen Display (OSD) Menu

To access the General Settings, long press anywhere on the vLauncher (Home Screen) background.



General Settings



To adjust the Volume:

Drag the volume slider directly to increase or decrease the volume level.

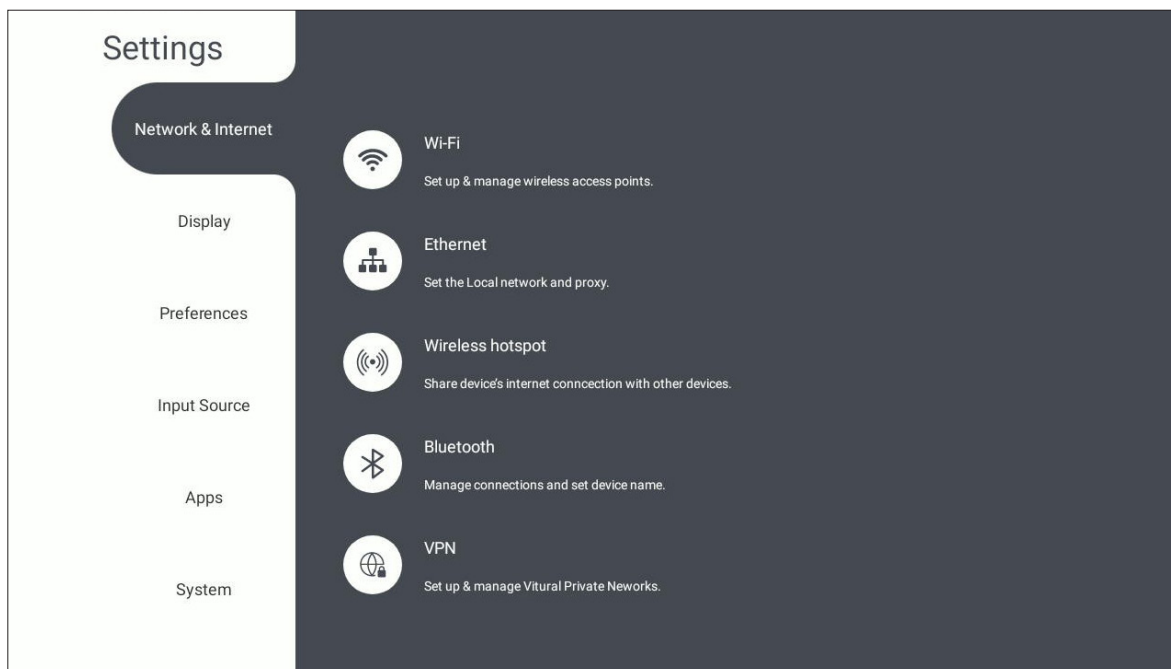
NOTE: The VBS200-A does not support backlight adjustment nor widgets like a standard ViewSonic IFP series display.

Settings - Embedded Player

To view and adjust the settings of the Embedded Player, select the **Settings** application from the application list on the vLauncher (Home Screen).

Network & Internet

Check current network connection status, set up and manage Wi-Fi, Ethernet, Bluetooth, and VPN, and establish a Wireless hotspot.

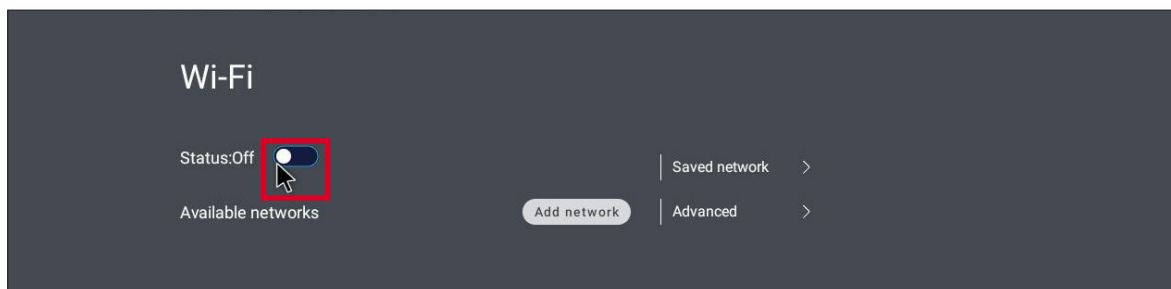


NOTE: Both Wi-Fi and Ethernet can be used to connect to the Internet. However, Ethernet will take priority when both are connected and disable the Wi-Fi connection.

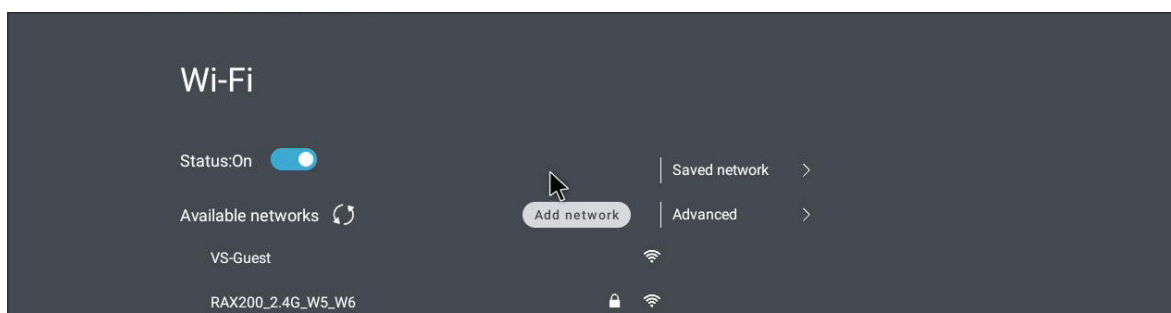
Wi-Fi

Setup and manage wireless access points.

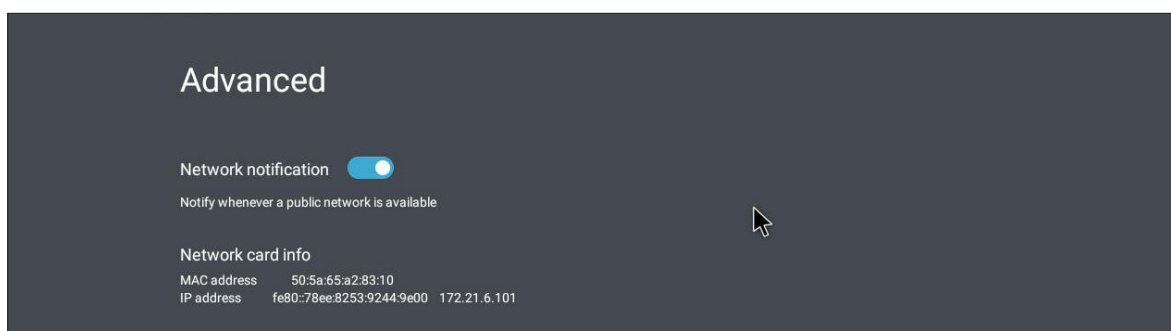
- Select the toggle to turn Wi-Fi **On** or **Off**.



- Once **On**, you can: **Add a Network**, view **Saved Networks**, **Refresh** (↻) the network list, or view **Advanced** settings.



- In **Advanced** settings, you can toggle **Network Notifications On** or **Off** and view **Network Card Info**.



Ethernet

Set the local network and proxy.

- Select the drop-down list to connect/disconnect the Ethernet.

The first screenshot shows the Ethernet settings page with the status 'Cable unplugged' and the 'Local network' dropdown menu set to 'Off'. A red box highlights the 'Off' option. The second screenshot shows the same page with the status 'Connected' and the 'Local network' dropdown menu open, showing options 'DHCP', 'Static IP', and 'Off'. A red box highlights the dropdown menu.

- You can adjust **Local Network** and **Proxy** settings as well.

The first screenshot shows the Ethernet settings page with the status 'Cable unplugged' and the 'Local network' dropdown menu set to 'Static IP'. A red box highlights the 'Static IP' option and the fields for IP address, default gateway, network, and DNS. The second screenshot shows the same page with the status 'Connected' and the 'Local network' dropdown menu set to 'Static IP'. A red box highlights the 'Proxy' settings dialog box, which includes fields for proxy hostname, proxy port, and bypass proxy for.

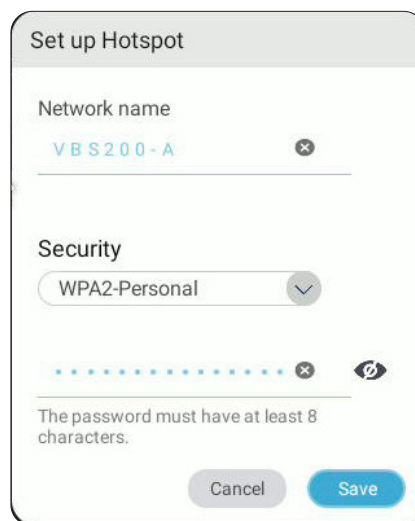
Wireless Hotspot

Set and share my internet connection with other devices.

- Select the toggle to turn **Wireless hotspot On** or **Off**.



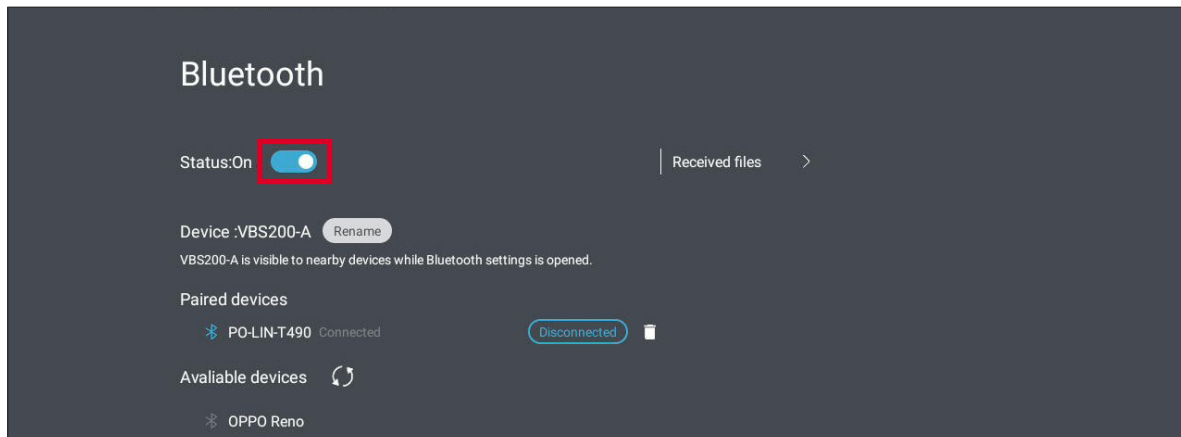
- Select **Set up** to set the **Network name**, **Security**, and **Password**.



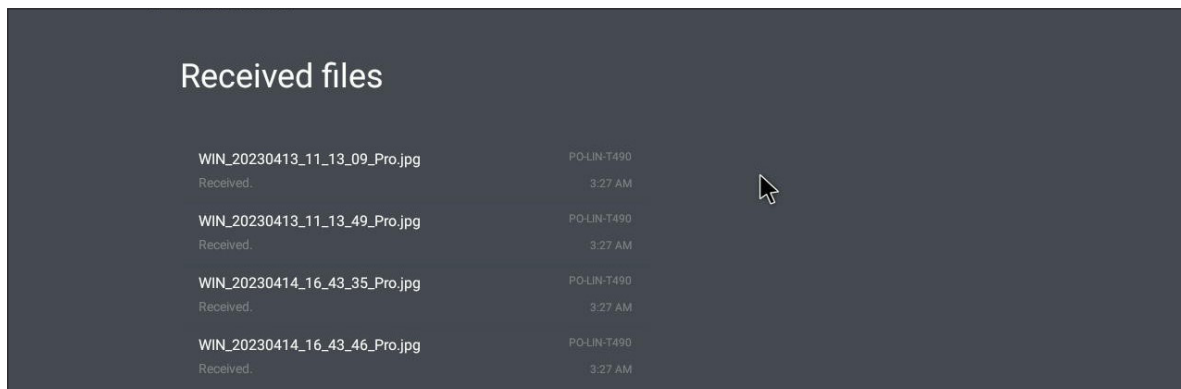
Bluetooth

Manage connections, set the device name and discoverability.

- Select the toggle to turn Bluetooth **On** or **Off**. Once On, users can select a listed device to pair and connect to, rename their device, remove a device, or receive files.

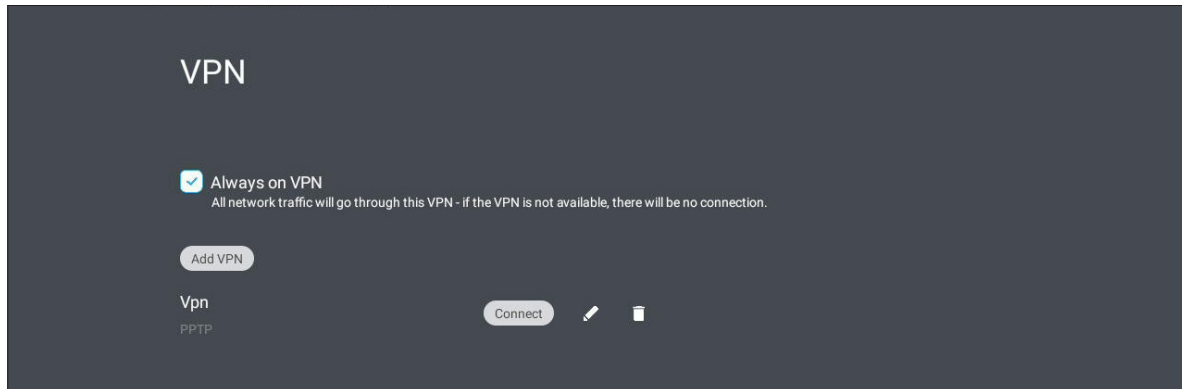


- Select **Received files** to show all received files.



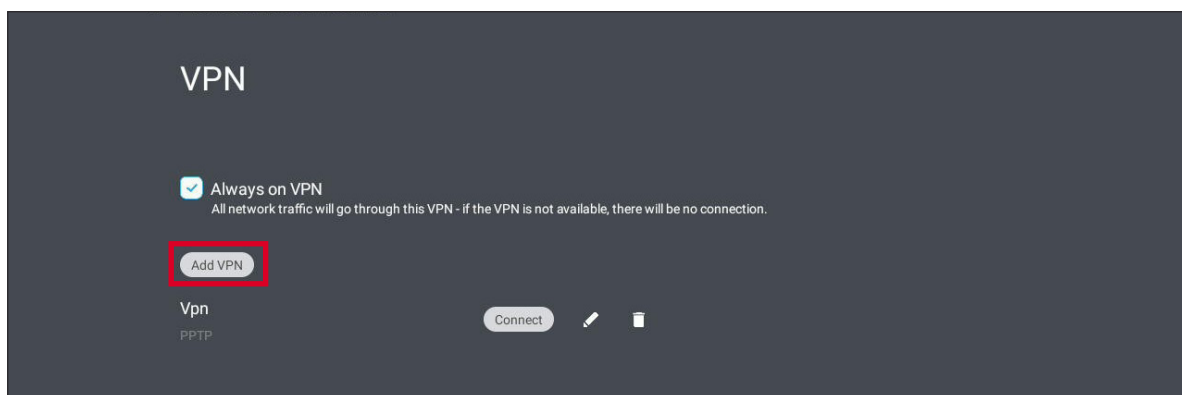
VPN

Setup and manage Virtual Private Networks (VPN).



To create a VPN profile:

1. Select **Add VPN**.



2. Key in the **Name**.

Edit VPN profile

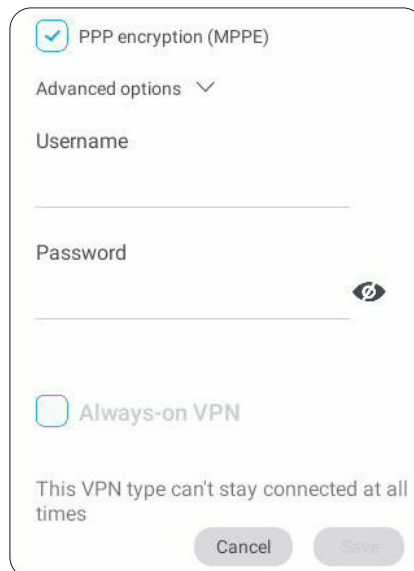
Name

3. Select the **VPN Type**.



A screenshot of a dropdown menu labeled "Type". The menu is open, showing a single option "PPTP" with a downward arrow icon to its right.

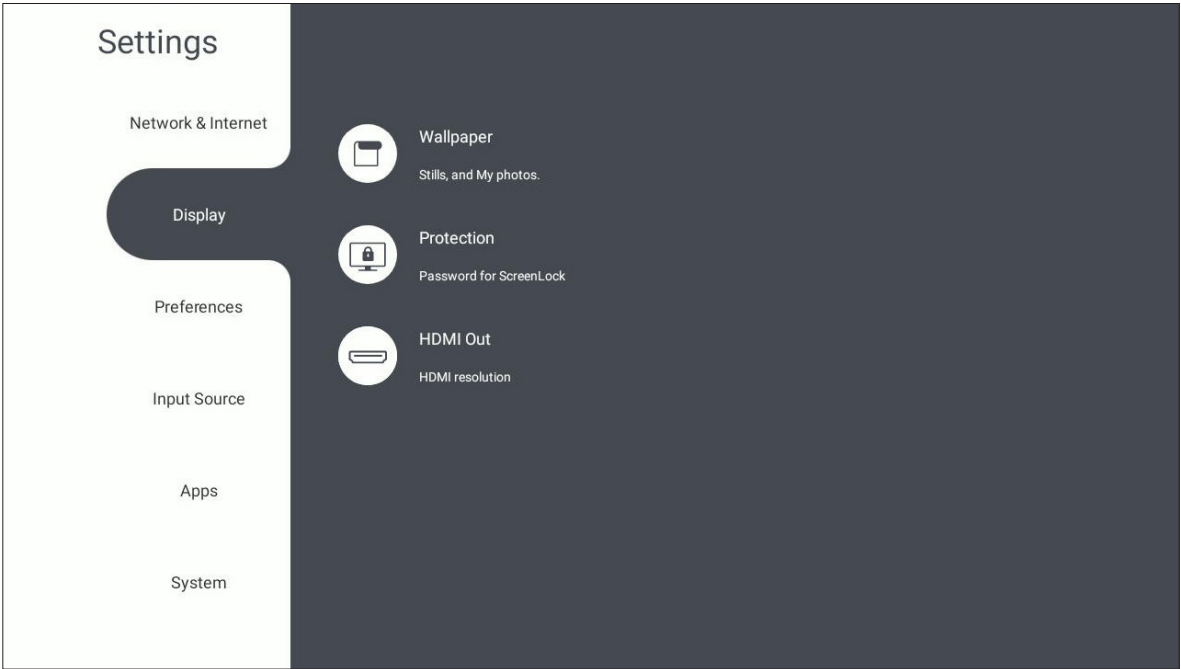
4. Choose to enable/disable **PPP encryption (MPPE)** and/or show **Advanced options**.



A screenshot of a VPN configuration dialog box. At the top, there is a checked checkbox labeled "PPP encryption (MPPE)". Below it is a section titled "Advanced options" with a downward arrow. Under "Advanced options", there are two input fields: "Username" and "Password". The "Password" field has a toggle icon (an eye with a slash) to its right. Below the input fields is an unchecked checkbox labeled "Always-on VPN". At the bottom, there is a message: "This VPN type can't stay connected at all times". At the very bottom, there are two buttons: "Cancel" and "Save".

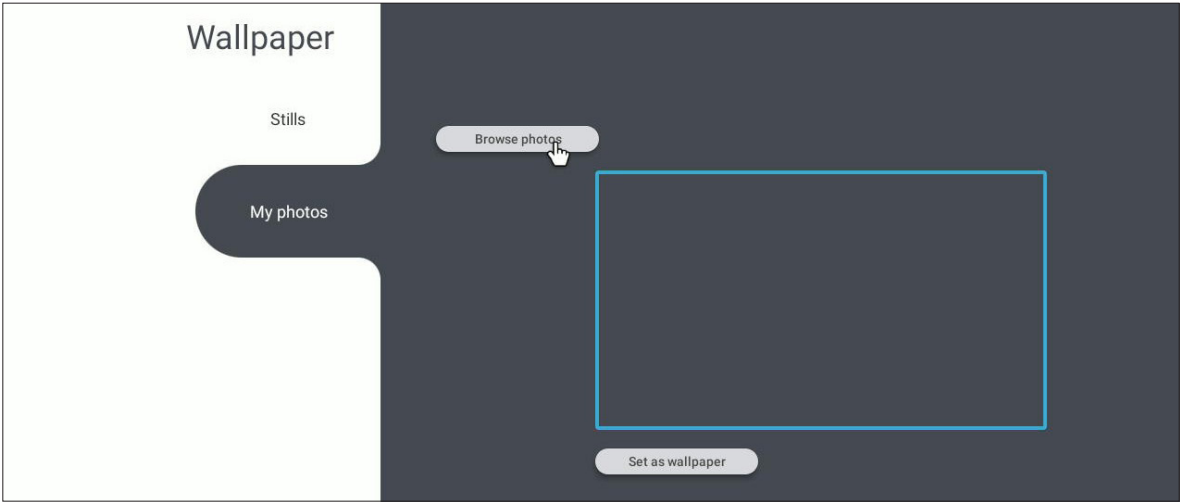
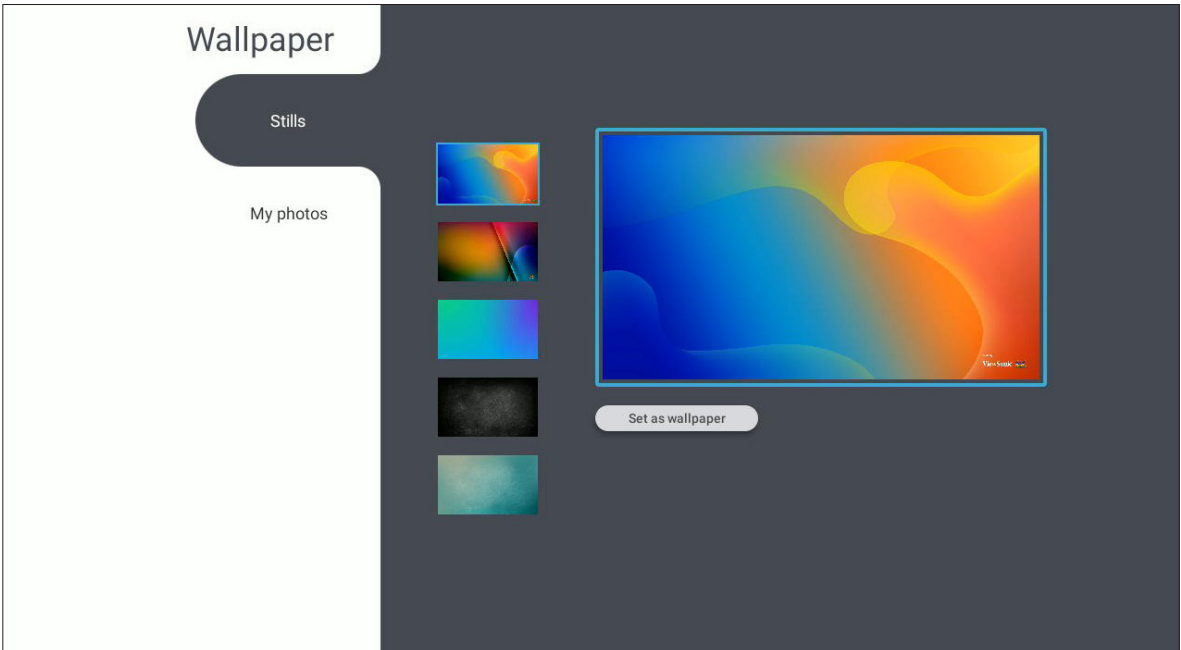
Display

Adjust the Wallpaper, Protection, and HDMI Out settings.



Wallpaper

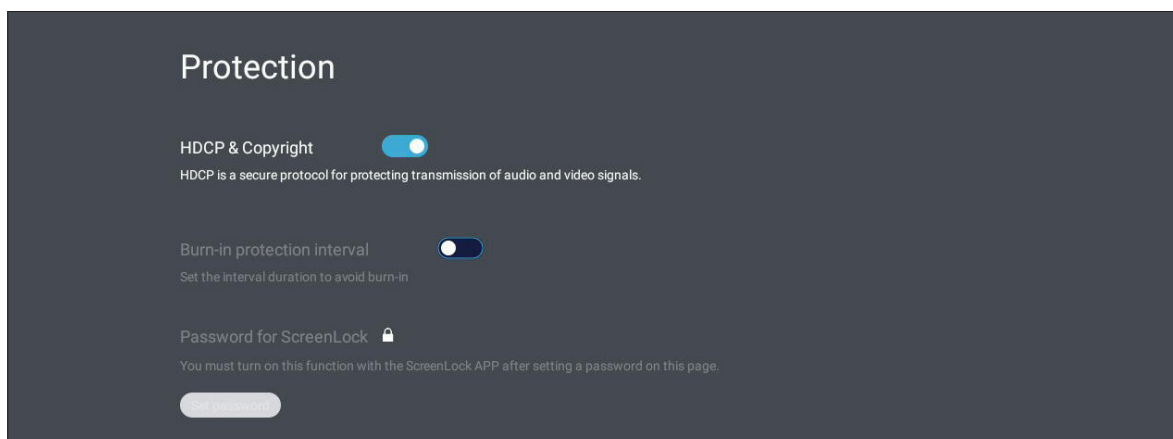
Users can change their wallpaper with default images, or use their own by tapping **My Photos** and selecting the image file.



wallpaper			
DISK_IMG FAT32 11Y00% > wallpaper			
Large files This week			
IMAGES IN WALLPAPER			
Name ↑	Type	Size	Modified
 new_launcher2_small.jpg	JPG image	179 KB	Jun 21, 2022
 new_launcher3_small.jpg	JPG image	156 KB	Jun 21, 2022
 new_launcher4_small.png	PNG image	278 KB	Jun 21, 2022
 new_launcher5_small.png	PNG image	595 KB	Jun 21, 2022

Protection

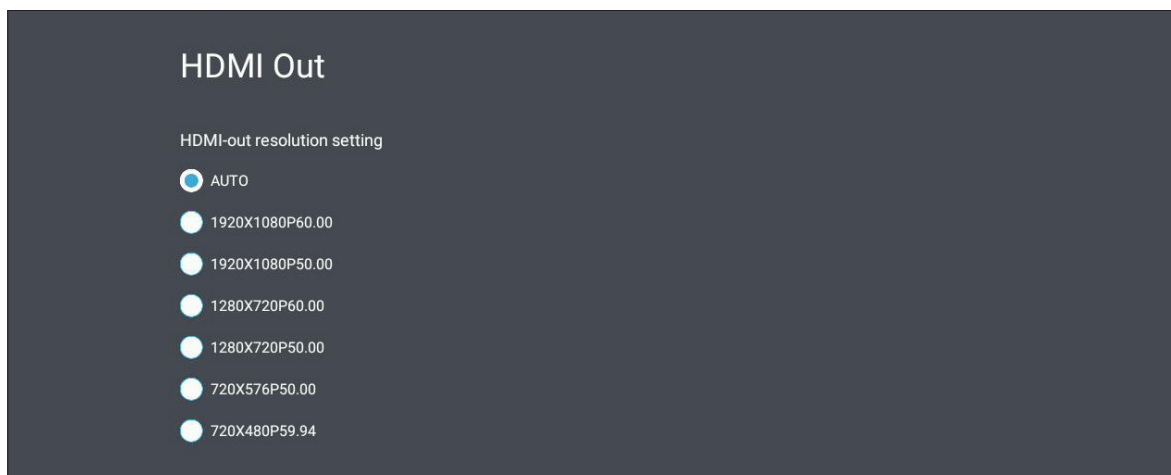
Toggle **HDCP & Copyright** On or Off. HDCP is a secure protocol to protect audio and video signal transmission.



NOTE: Grayed out content is not available for use.

HDMI Out

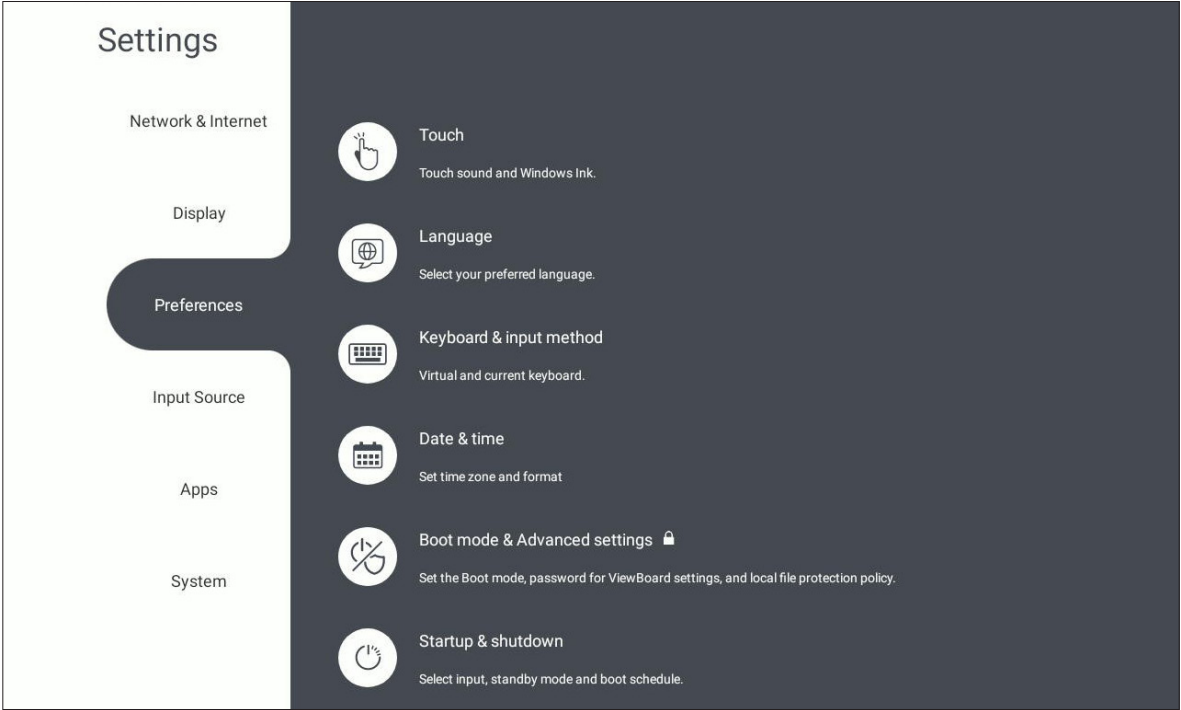
Adjust the HDMI Out Resolution setting when connected via HDMI Out.



NOTE: For 4K resolution output, please plug in the HDMI cable first before plugging in the AC Adapter or Ethernet cable (PoE) for power.

Preferences

View and adjust **Touch**, **Language**, **Keyboard & Input Method**, **Date & Time**, **Boot Mode & Advanced**, and **Startup & Shut down** settings.



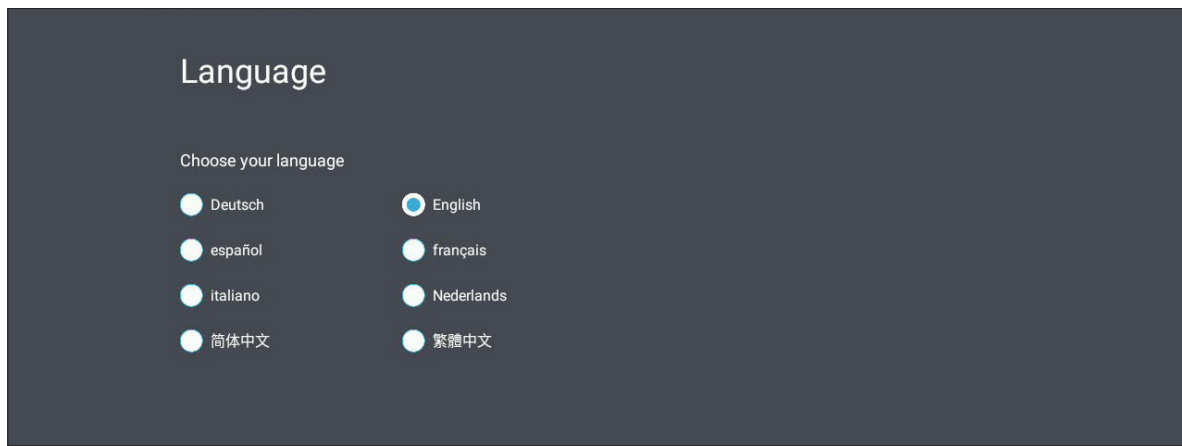
Touch

Toggle **Touch Sounds** On or Off.



Language

Choose the preferred language from the available languages.

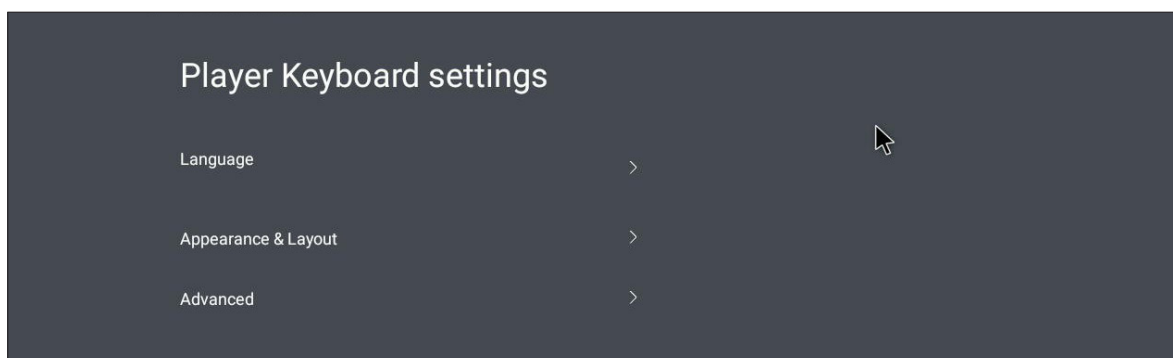


Keyboard & Input Method

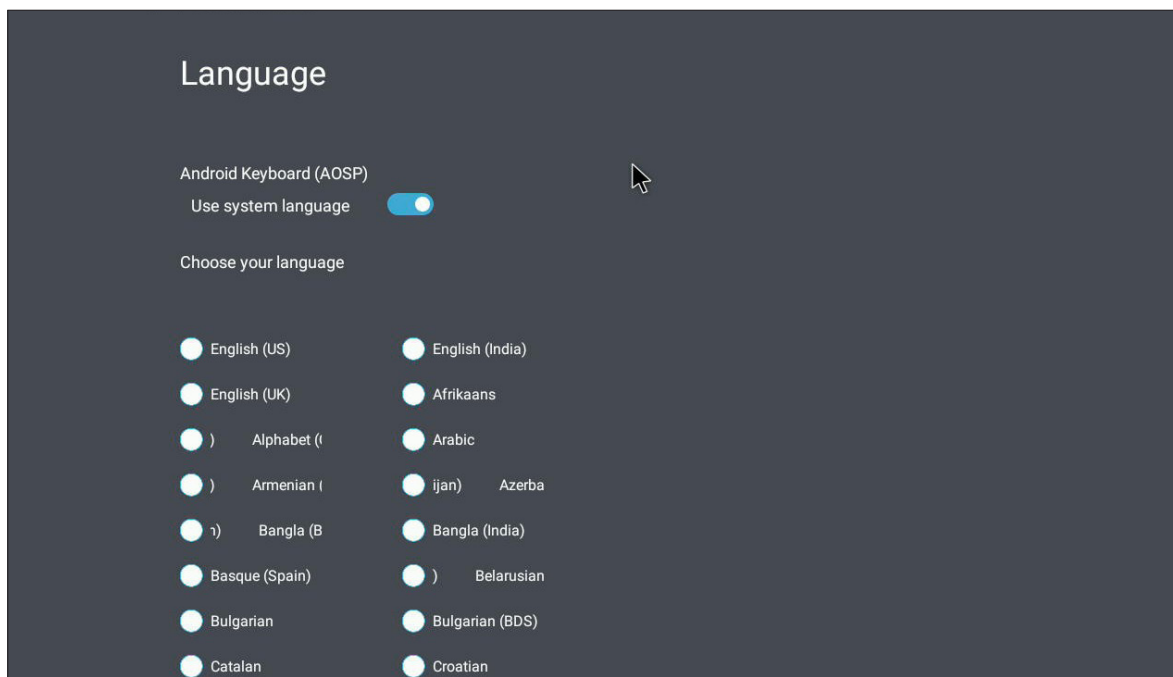
Enable/disable the visual keyboard and/or change the default input method.



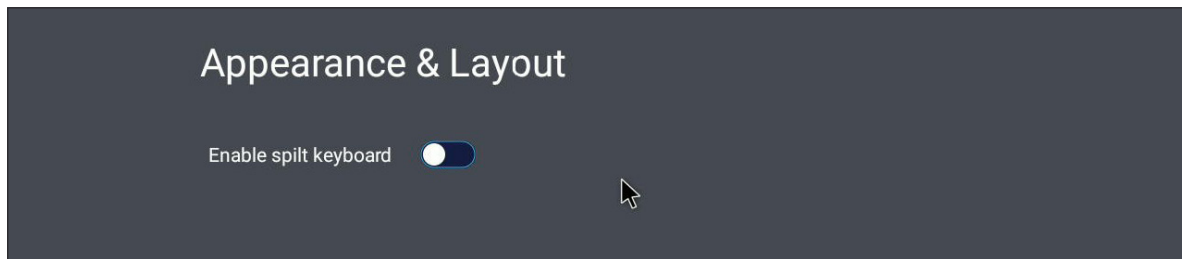
Select **Settings** to adjust additional keyboard settings such as:



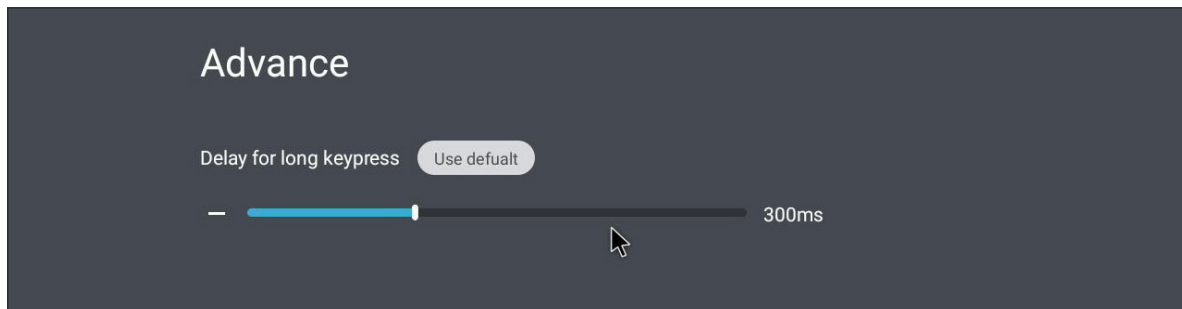
- **Language**



- **Appearance & Layout**

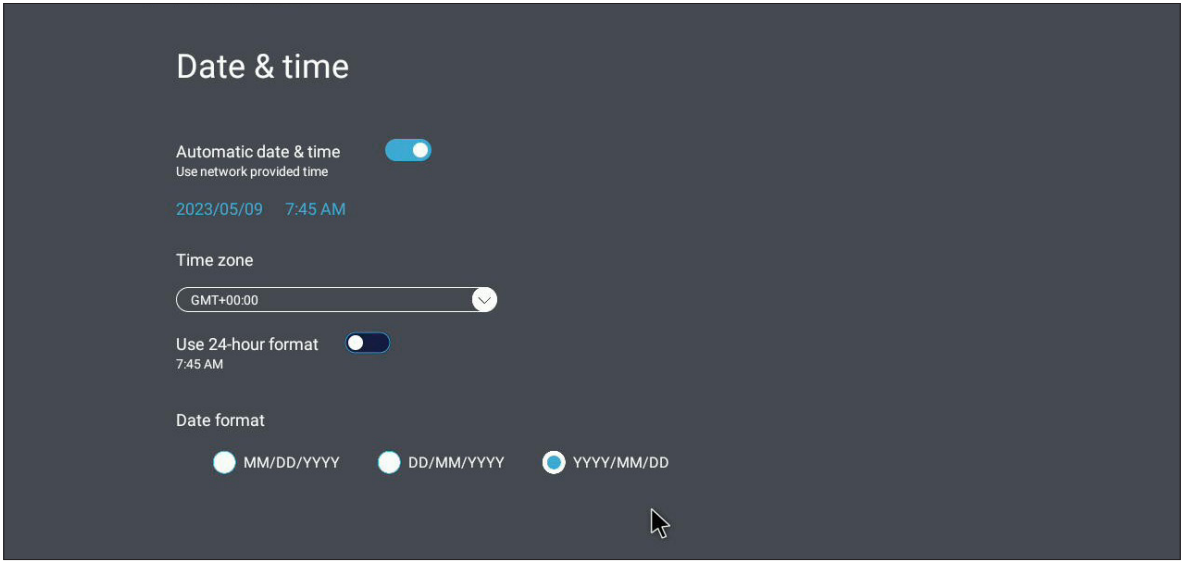


- **Advanced**



Date & Time

Set the system time and format.



Item	Description
Automatic Date & Time	When enabled, the VBS200-A will automatically synchronize the date and time via the Internet.
Time Zone	Select the relevant time zone.
Use 24-hour Format	Choose from 12-hour or 24-hour time format. Simply toggle the setting On or Off.
Date Format	Select the relevant date (month, day, and year) format.

Boot Mode & Advanced Settings

Adjust the preferred boot up mode and set/reset a password.

Boot mode & Advanced settings

☒ Normal mode
Launch startup programs, begin all services configured to start, and loads the hardware drivers you have installed as normal.

☐ Secure mode
Removes embedded screen sharing apps such as V-Cast, E-Airplay, and Chrome Cast.

☐ Disable ViewBoard OS
The ViewBoard OS will be disabled after reboot.

Enable password for ViewBoard settings ☒
If enabled users will have to enter a password to open ViewBoard settings

Boot mode and advanced settings password [Reset password](#)

Local File Protections Policy
To protect personal files, the local storage file in Folder app will be deleted automatically at the time of your choice.

☒ Do not clear file(s)
☐ Delete after 1 Day
☐ Delete after 1 Hour
☐ Delete immediately

Color Correction ☒
☒ Deuteranomaly (red-green)
☐ Protanomaly (red-green)
☐ Tritanomaly (blue-yellow)

[Reset ViewBoard](#)

Item	Description
Normal Mode	Screen sharing applications will be loaded and run normally.
Secure Mode	Screen sharing applications will not be loaded.
Disable ViewBoard OS	<i>This feature is not available on the VBS200-A.</i>
Enable Password for ViewBoard Settings	Lock or unlock access to the ViewBoard Settings.
Boot Mode and Advanced Settings Password	Modify the Boot mode and ViewBoard Settings entry password.
Local File Protection Policy	Choose how long to keep locally stored files in the Files application.
Color Correction	Color correct the VBS200-A connected display.
Reset ViewBoard	Reset to the factory default settings.

Startup & Shut down

Adjust the preferred boot up mode and set/reset a password.

Startup & shutdown

Startup input

☒ Last shutdown input

☒ Startup input

ViewBoard 

Display settings when No SIGNAL

☒ Power off display

☒ Turn off panel backlight

Standby mode

☒ Hibernate

Use this mode if you won't be using your TV for an extended period of time, and you don't want to close your documents.

☒ Sleep

Sleep mode is useful if you want to stop working for a short period of time. The TV doesn't use much power in Sleep mode, but it does use some.

EnergyStar mode ☒



If the screen idle for one hour, the system will active in Sleep Mode.

Black screen after startup ☒

The back light will be closed after startup in order to saving power.

Time switch

Power off reminder ☒

Toggle Power off reminder

Schedule

Boot time

Off time

Add schedule

Item	Description						
Startup Input	Choose the startup input source.						
Display Settings when NO SIGNAL	<i>This feature is not available on the VBS200-A.</i>						
Standby Mode	Decide what happens when the EnergyStar Mode function is On.<table><tr><th>Mode</th><th>Description</th></tr><tr><td>Hibernate</td><td>The system will power off when the screen is idle for one hour.</td></tr><tr><td>Sleep</td><td>The system will move to Sleep Mode when idle for one hour.</td></tr></table>	Mode	Description	Hibernate	The system will power off when the screen is idle for one hour.	Sleep	The system will move to Sleep Mode when idle for one hour.
Mode	Description						
Hibernate	The system will power off when the screen is idle for one hour.						
Sleep	The system will move to Sleep Mode when idle for one hour.						
EnergyStar Mode	When On, the Standby Mode function will enact when the system is idle for one hour. When Off, Standby Mode will be disabled.						

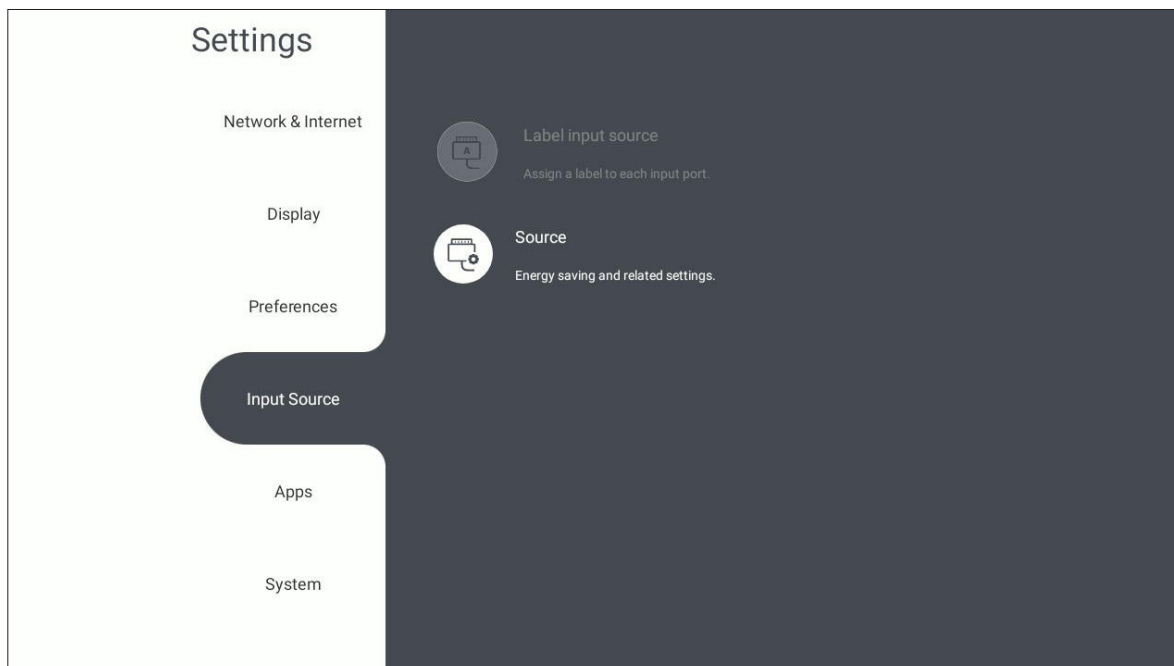
Item	Description
Black Screen After Startup	<i>This feature is not available on the VBS200-A.</i>
Time Switch	When enabled, the VBS200-A will turn off without any reminder after the scheduled off time is reached.
Schedule	Schedule a Boot and Shut Off time.

Toolbar Settings

NOTE: This feature is not currently available on the VBS200-A.

Input Source

Adjust the input source settings.

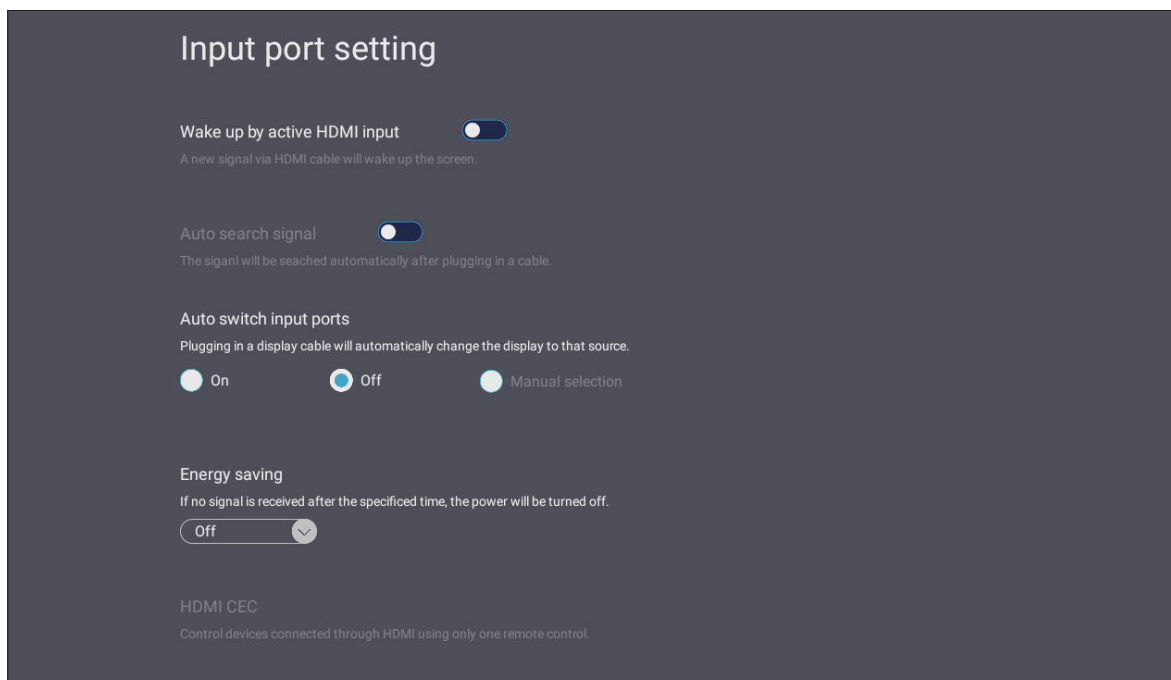


Label Input Source

NOTE: This feature is not currently available on the VBS200-A.

Source

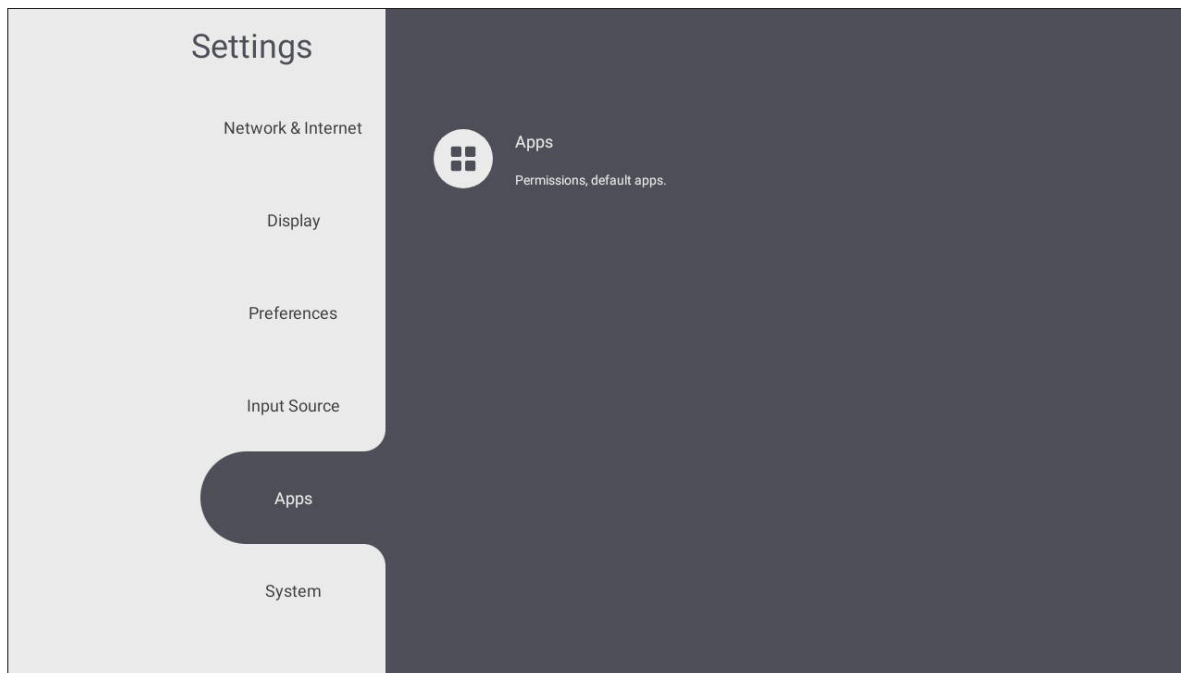
Toggle Wake up by active source, Signal auto switch, and Energy Saving plan.



Item	Description
Wake Up by Active HDMI Input	The system will turn on automatically after plugging in an HDMI cable when the VBS200-A is in Sleep Mode.
Auto Search Signal	<i>This feature is not available on the VBS200-A.</i>
Auto Switch Input Ports	The input source will automatically change to the source of the display cable after it's plugged in.
Energy Saving	Set a time period to power off if no input signal is detected.
HDMI CEC	<i>This feature is not available on the VBS200-A.</i>

Apps

View application information and force stop, uninstall, move to USB storage, clear data, clear cache, and clear defaults.

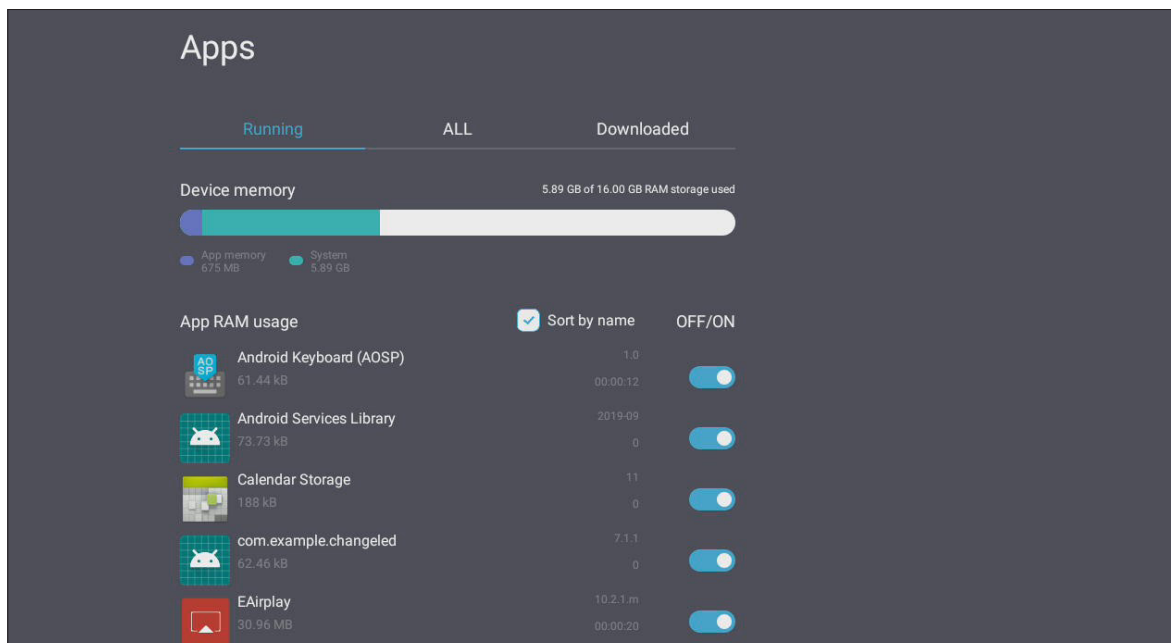


NOTE:

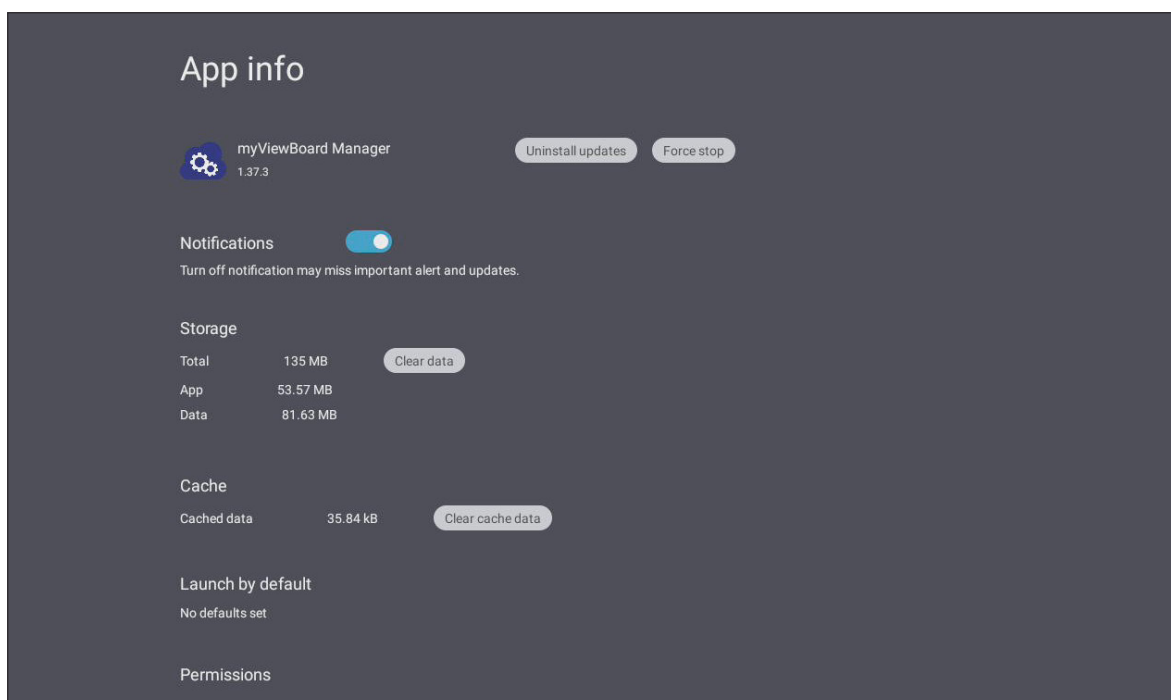
- Preloaded applications cannot be uninstalled.
- Not all applications support the **Clear Data** function.

Apps

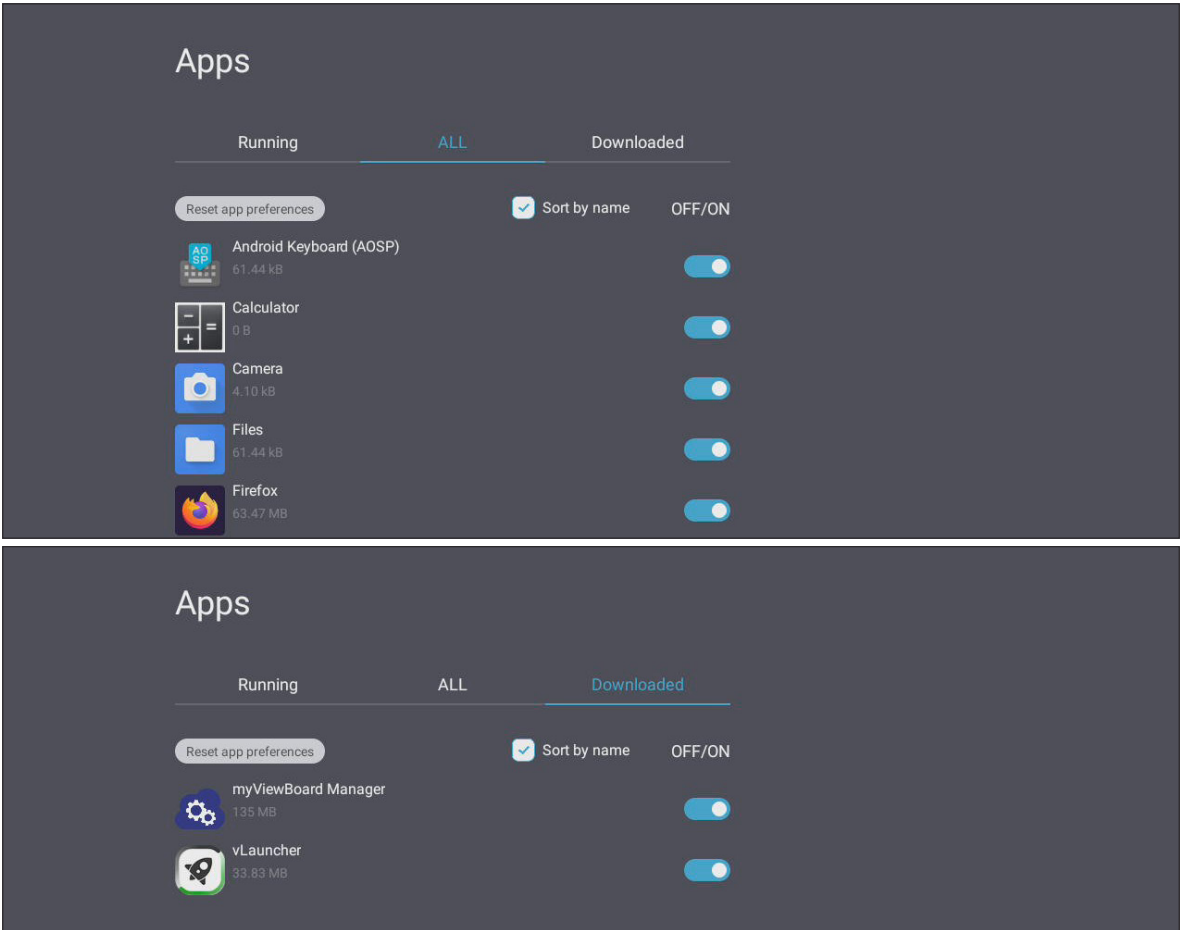
View any running or installed applications. Select them for more detailed information and options. Toggle **OFF/ON** to hide the application from the vLauncher (Home Screen).



By selecting a running application, you can see more information, **Uninstall Updates**, **Force Stop**, **Clear Data**, and adjust **Permissions**.

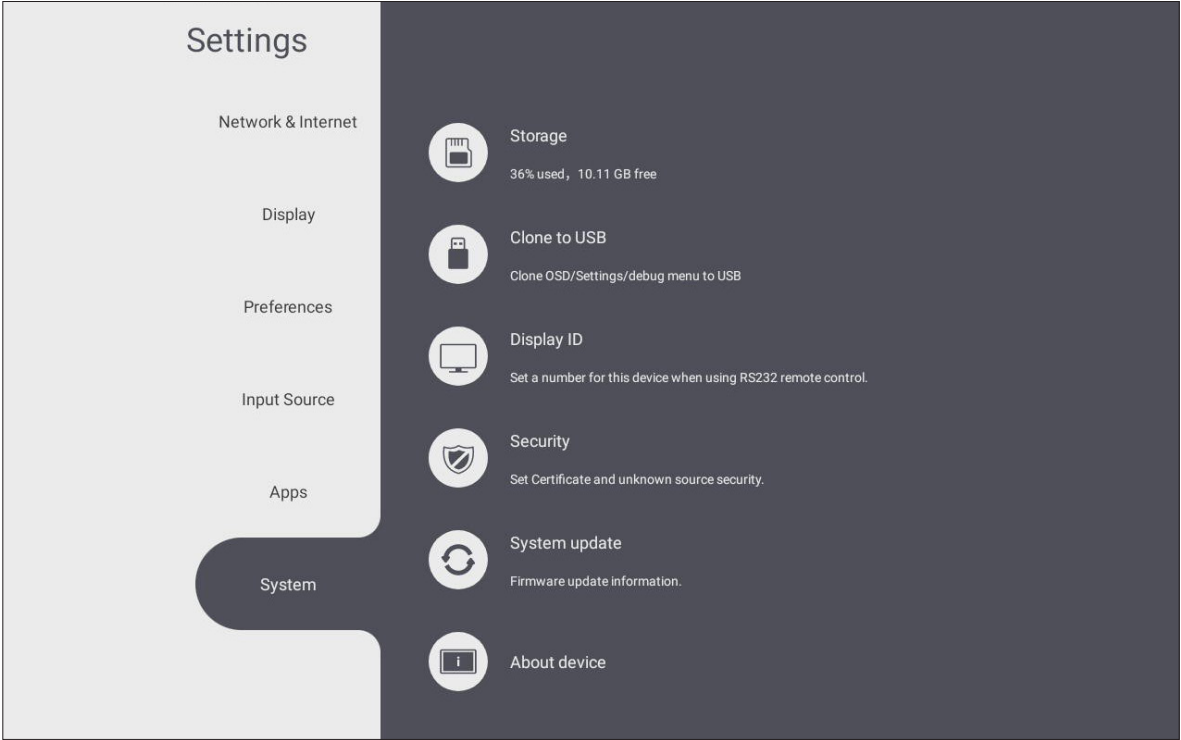


Selecting **All** or **Downloaded** will list all installed applications.



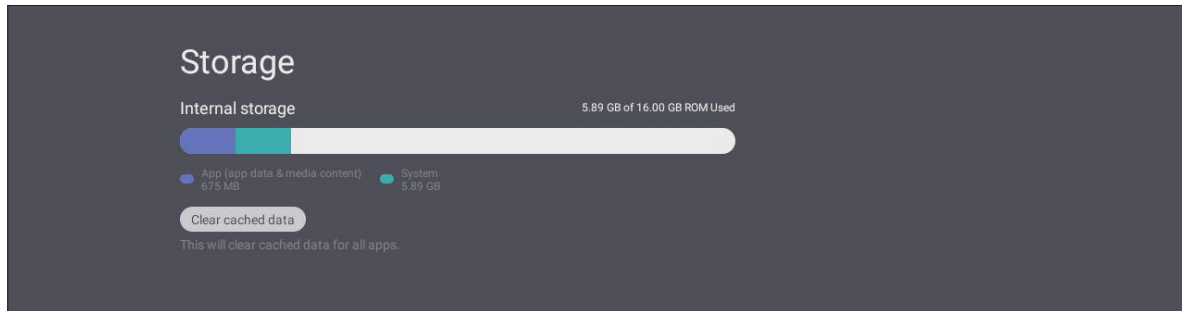
System

View and adjust **Storage**, **Clone to USB**, **Display ID**, **Security**, **System Update**, and **About Device** settings.



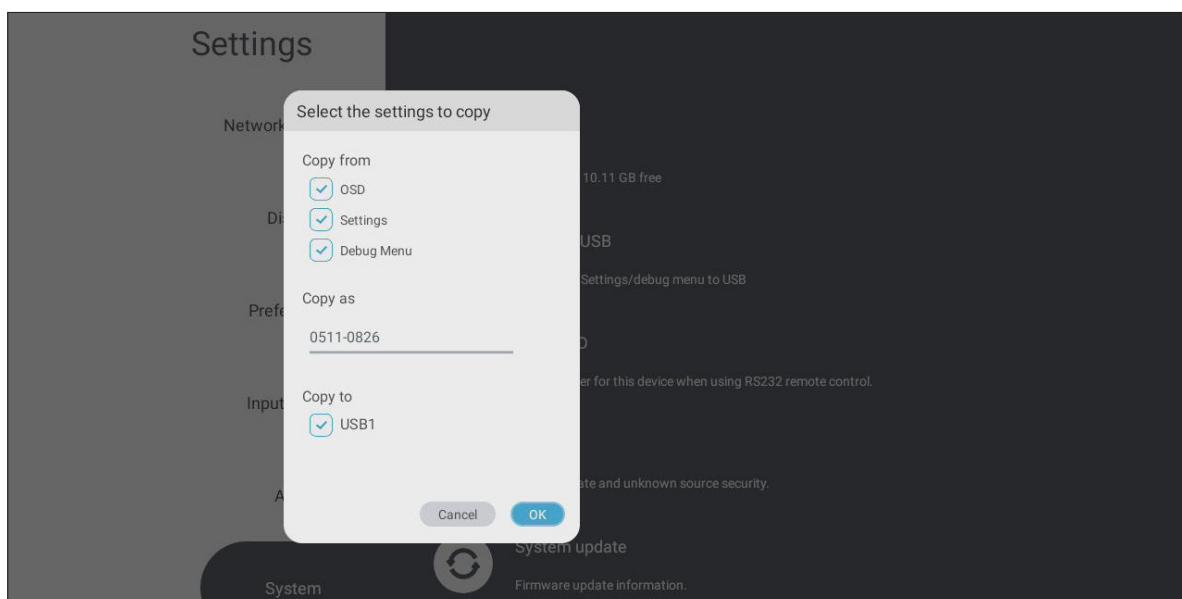
Storage

Check the remaining storage space and clear cached data for all applications.



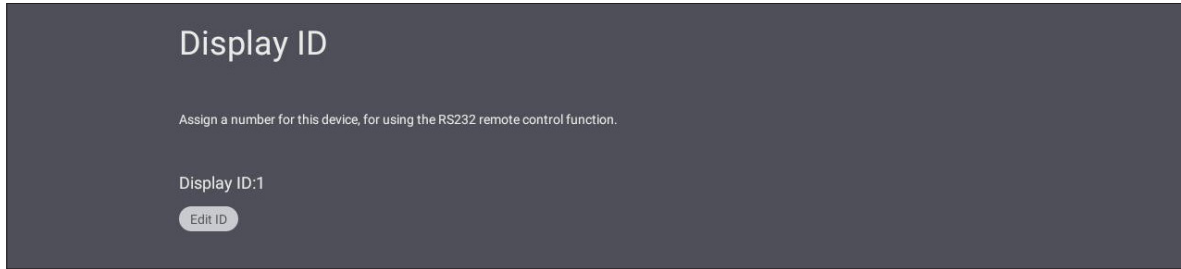
Clone to USB

Copy settings to an external USB drive.



Display ID

Assign a number to remotely control the display by RS-232 or LAN.



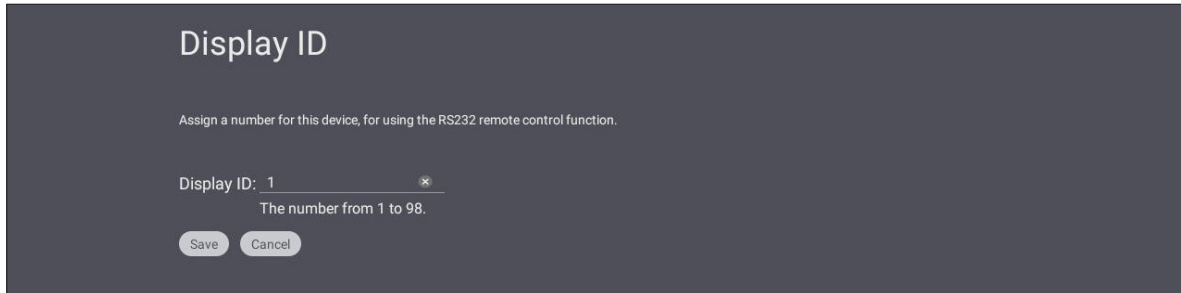
Display ID

Assign a number for this device, for using the RS232 remote control function.

Display ID: 1

Edit ID

To assign or change the Display ID, select **Edit ID** and input a number.



Display ID

Assign a number for this device, for using the RS232 remote control function.

Display ID: 1

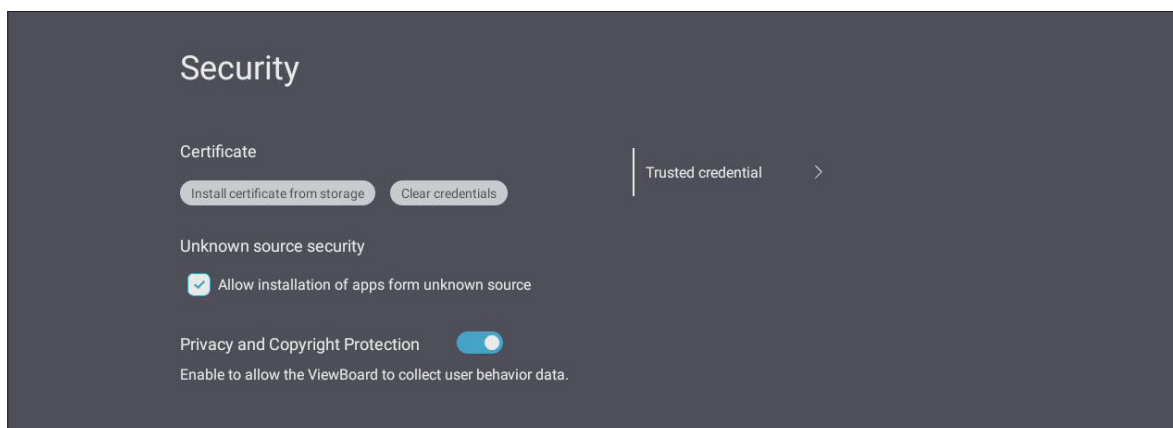
The number from 1 to 98.

Save Cancel

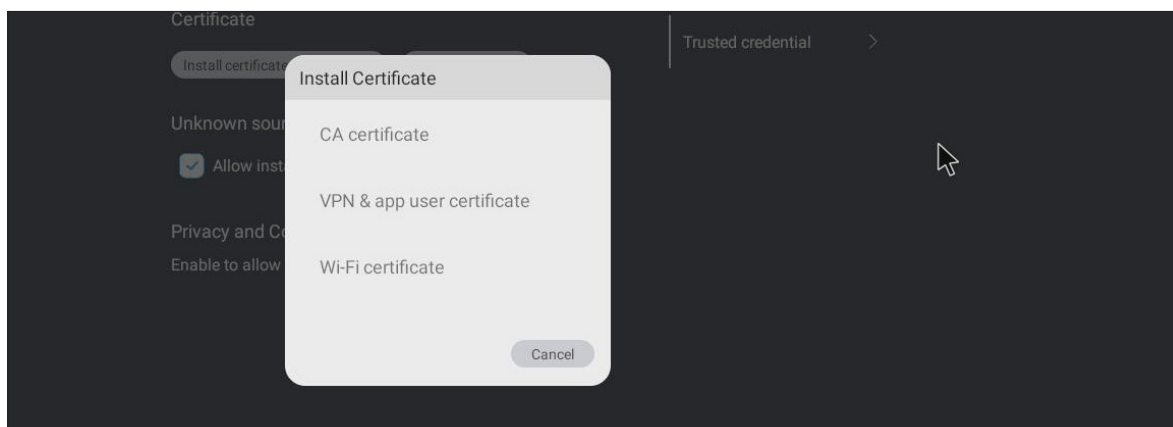
NOTE: The Display ID is for RS-232 users, and the range is 01~99.

Security

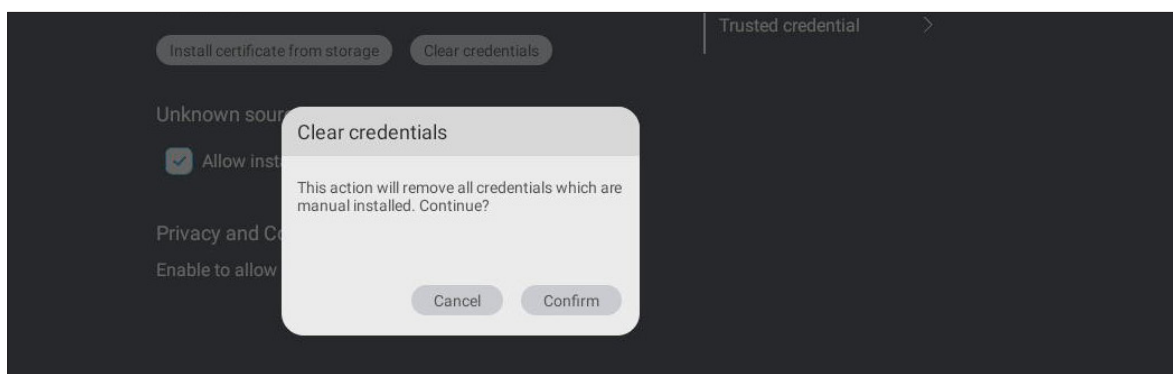
Review **Certificates**, **Credentials**, **Unknown Source Security**, and **Privacy and Copyright Protection** settings.



Select **Install Certificate from Storage** to add additional certificates.

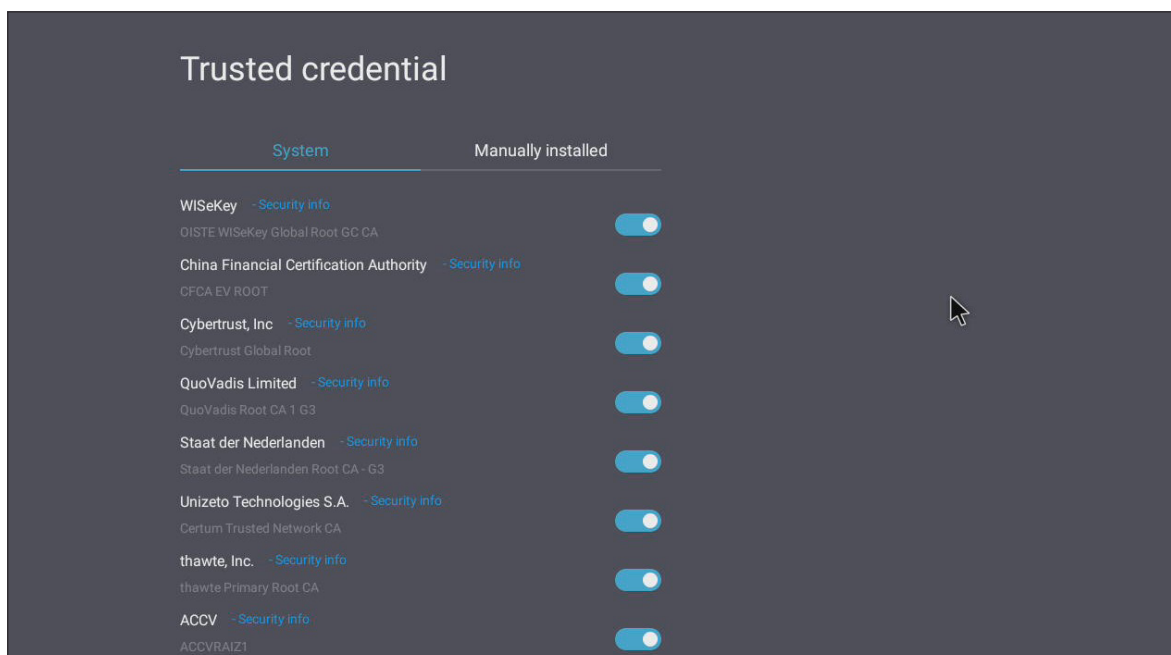


Selecting **Clear Credentials** will remove all manually installed credentials.

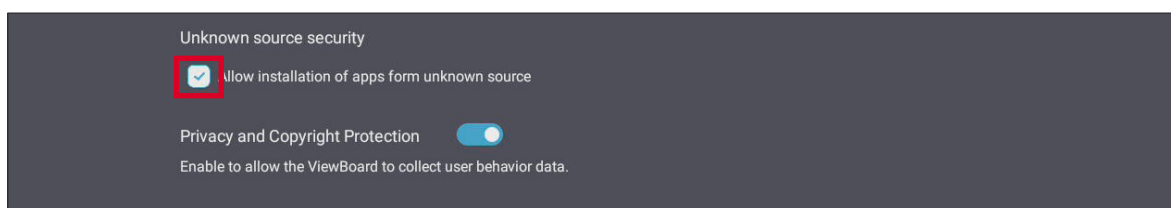


NOTE: Preloaded credentials cannot be cleared.

Under **Trusted Credentials** view and edit all trusted and installed certificates. Selecting a credential will provide further detailed information.



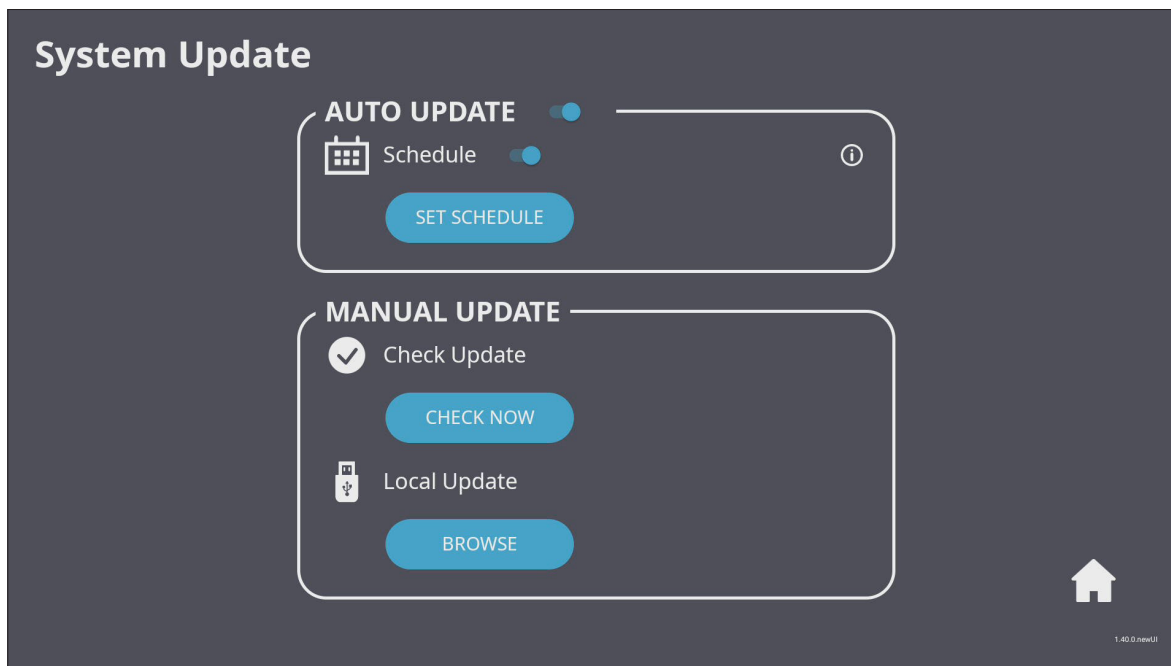
To allow the installation of applications from unknown sources, select the box under **Unknown Source Security**.



NOTE: Applications from unknown sources may not be compatible or work properly.

System Update

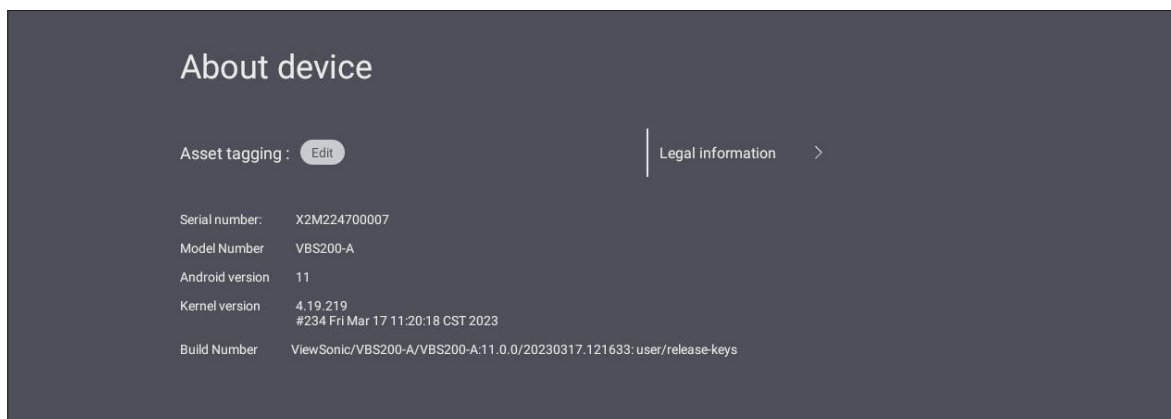
The VBS200-A automatically searches for software updates whenever connected to the Internet (OTA). With just one click, users can update their VBS200-A firmware version.



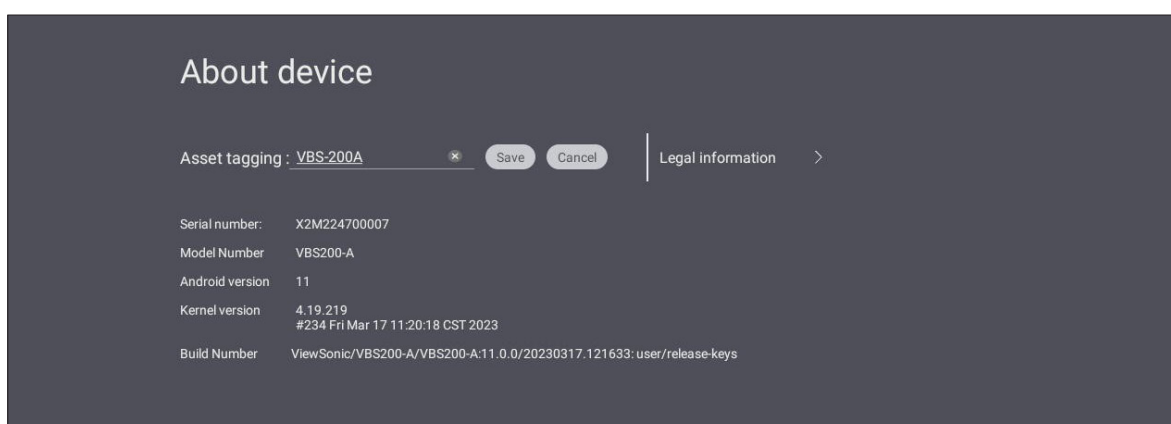
Item	Description
Auto Update	The system will automatically check for a new version. If a new version is found, the system will automatically update. After the update is complete, the system will reboot.
Schedule	If On, a specific update time can be set.
Manual Update	Update the firmware manually.

About Device

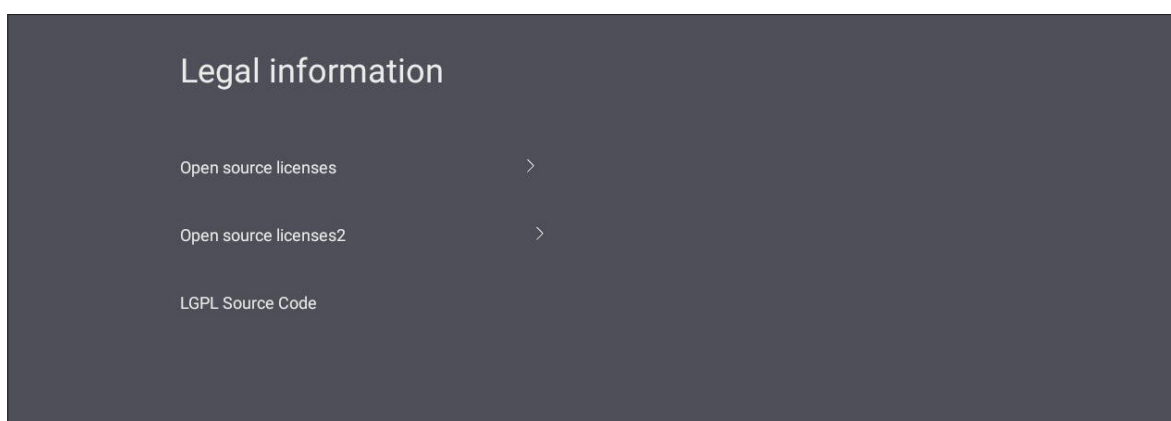
Display Embedded Player information, **Legal information**, and **Asset Tagging**.



The asset information can be adjusted by selecting **Edit**.



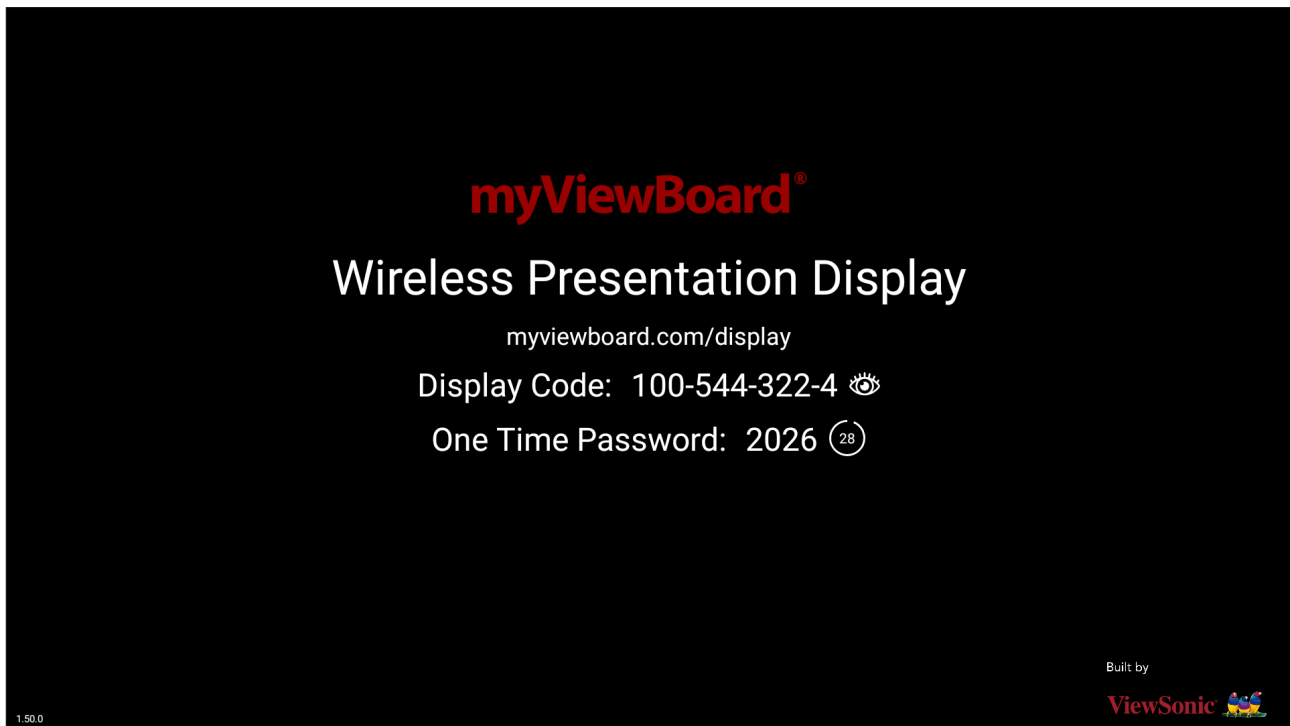
Select **Legal Information** to check open source licenses. Also, by selecting the **LGPL Source Code** it will be downloaded to the Download folder of the system.



Pre-installed Applications and Settings

myViewBoard Display

Wirelessly mirror screens to a larger display.



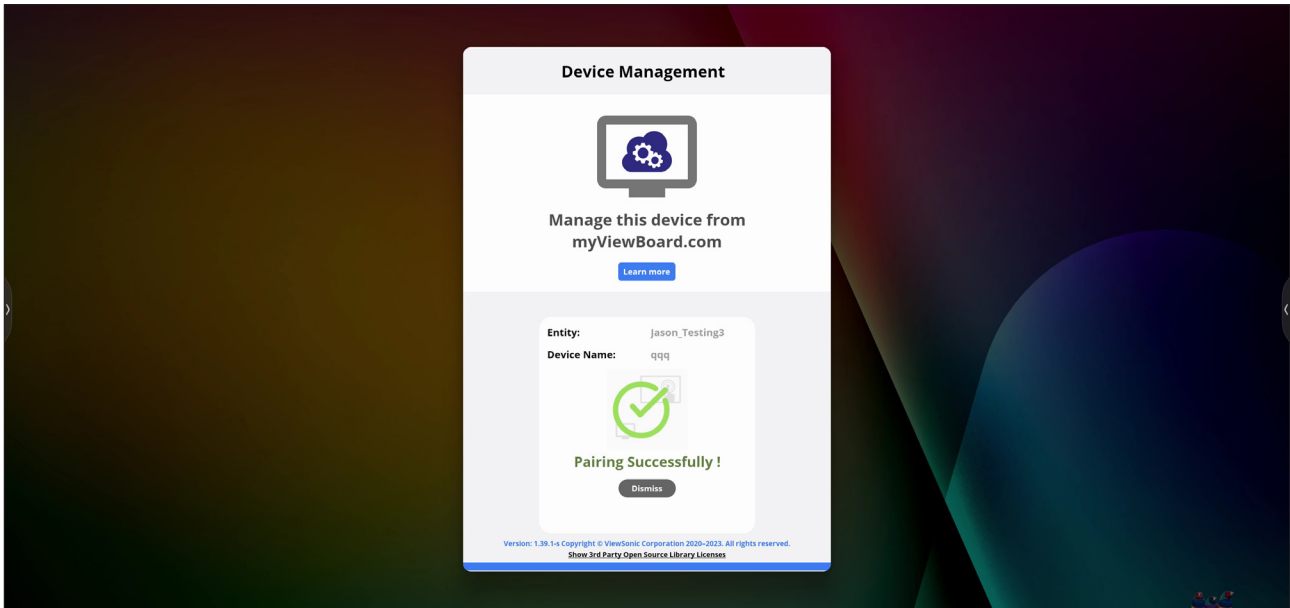
To share a screen to a ViewBoard with myViewBoard Display:

1. Open myViewBoard Display on the ViewBoard you want to share your screen to.
2. On the device you want to share the screen from, go to: <https://myviewboard.com/display>.
3. Enter the **Display Code** and **One Time Password** for the ViewBoard you wish to share to.

NOTE: Note that the password refreshes every 30 seconds.

myViewBoard Manager

Remotely manage multiple installations of ViewSonic devices.



Once devices are set up and have myViewBoard Manager installed, they can be added to the entity and managed remotely from the Manager web application.

NOTE: Only available to Entity Admins from myviewboard.com after signing in.

Add a Device

On the device to manage:

1. Download and install myViewBoard Manager.
2. Open myViewBoard Manager and note the 6-digit PIN displayed.

In the myViewBoard Manager web application on myviewboard.com:

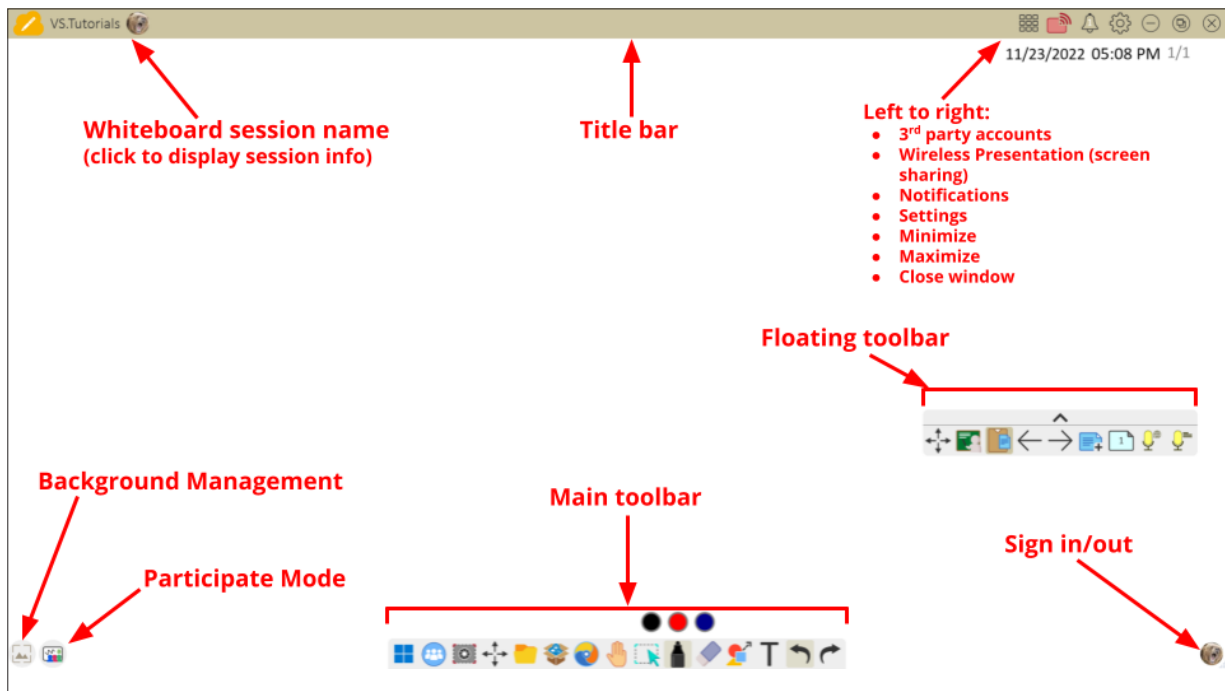
1. Click **Add Device**.
2. Input the 6-digit PIN obtained earlier.
3. Name the device (if applicable).
4. Click **Add**.

NOTE: To learn more about myViewBoard Manager, visit: https://wiki.myviewboard.com/MyViewBoard_Manager.

myViewBoard Whiteboard

A digital whiteboarding application.

NOTE: To learn more about myViewBoard Whiteboard, visit: https://wiki.myviewboard.com/Whiteboard_for_Android.



Floating Toolbar

Item		Description
	Move	Move the Floating Toolbar.
	Present Mode	Switch between presentation and preparation modes.
	Paste from Clipboard	Insert the current clipboard content onto the canvas.
	Previous Page	Go to the previous page (if the canvas has multiple pages).
	Next Page	Go to the next page (if the canvas has multiple pages).
	New Page	Add a new canvas.
	Pages in Whiteboard	Create, select, rearrange, copy and delete pages.

Main Toolbar

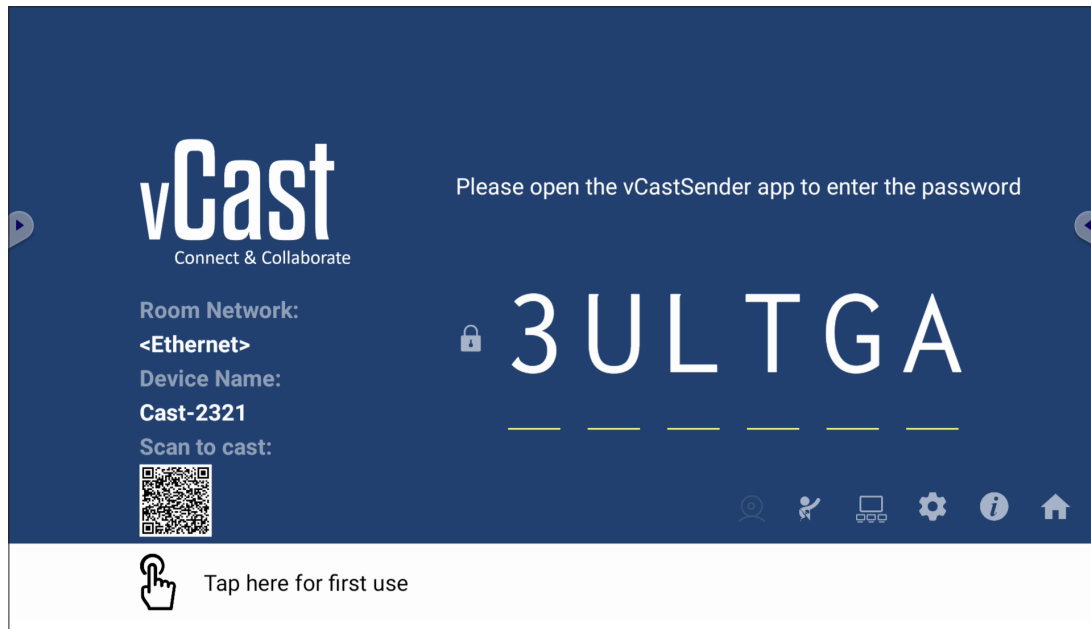
Item		Description
	Screen Capture	Screenshot, video, and audio recording.
	Move	Select and hold to move the toolbar to the left side, right side, or bottom of the screen.
	File	Open, save, export, and print whiteboard files.
	Magic Box	Import resources (image, video, audio, etc.) to the whiteboard.
	Embedded Browser	Open the built-in browser to access internet resources, which can be dragged onto the canvas.
	Infinite Canvas	Drag to move the canvas. Use two hands to zoom in/zoom out. Select again for an overview.
	Selection	Select objects, text, and other elements on the canvas.
	Pen	Writing tools and customization options.
	Eraser	Erase objects or clear the page.
	Shapes and Lines	Draw shapes, arrows, and add tables.
	Text and Handwriting	Add a text box.
	Undo	Undo the previous action.
	Redo	Redo the previous action.

Background Management

Item		Description
	Sign In	Sign in to a myViewBoard account.
	Background Management	Change the canvas background.
	FollowMe Setting	Display custom images uploaded to a cloud storage account.
	Color Palette	Choose from solid or gradient colors as the background.
	Pre-installed	Choose backgrounds that come pre-installed with Whiteboard.
	myViewBoard Originals	Display original content created by myViewBoard.
	Local Hard Drive	Use images from the local hard drive.

vCast

Working with ViewBoard® Cast software (vCast, vCast Pro, and vCastSender), the vCast application will allow the ViewBoard to receive laptop screens (Windows/Mac/Chrome) and mobile (iOS/Android) users' screens, photos, videos, annotations, and camera(s) that are using the vCastSender application.

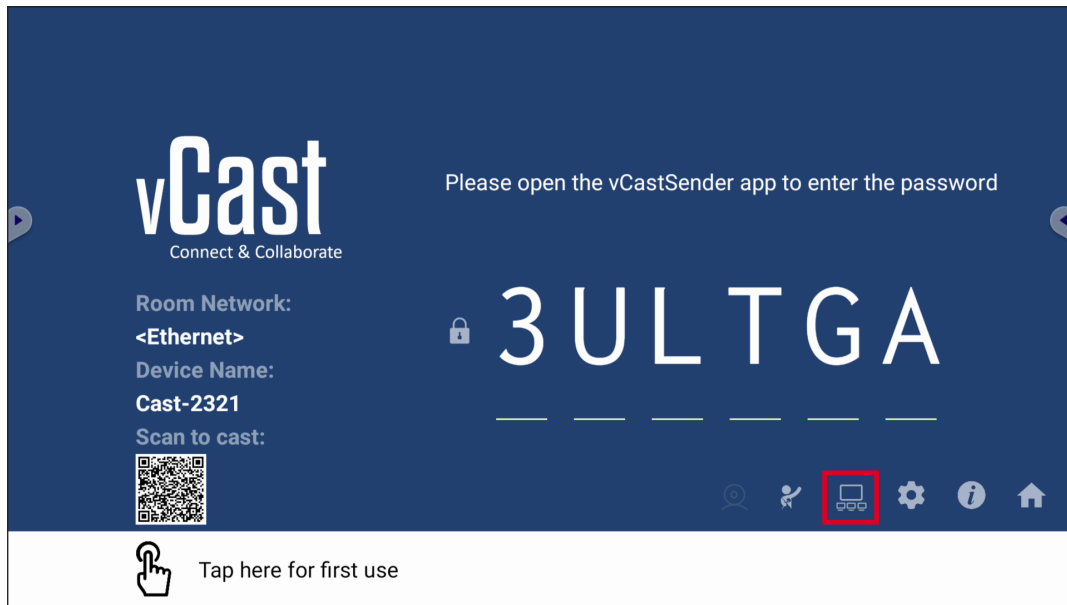


Network Information

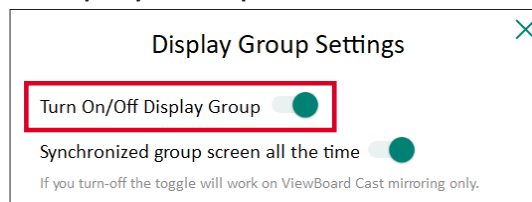
- ViewBoard® Cast software, laptops, and mobile devices can connect to both the same subnet and cross subnet by entering the on-screen PIN code.
- Connected devices will show up under **Device List** on the same subnet connection.
- If the device does not show up under **Device List**, users will need to key-in the on-screen PIN code.
- **Ports:**
 - » TCP 56789, 25123, 8121 & 8000 (Controlling message port & client device audio transfer)
 - » TCP 8600 (BYOM)
 - » TCP 53000 (Request share screen)
 - » TCP 52020 (Reverse control)
 - » TCP 52025 (Reverse control for ViewBoard Cast Button)
 - » TCP 52030 (Status sync)
 - » UDP 48689, 25123 (Device searching and broadcast & client device audio transfer)
 - » UDP 5353 (Multicast search device protocol)
- **Port and DNS for Activation:**
 - » Port: 443
 - » DNS: <https://vcastactivate.viewsonic.com>
- **OTA Service**
 - » Server Port: TCP 443
 - » Server FQDN Name: <https://vcastupdate.viewsonic.com>

Display Group Settings

To adjust the Display Group Settings, select the Display Group icon () located in the lower-right corner of the screen.

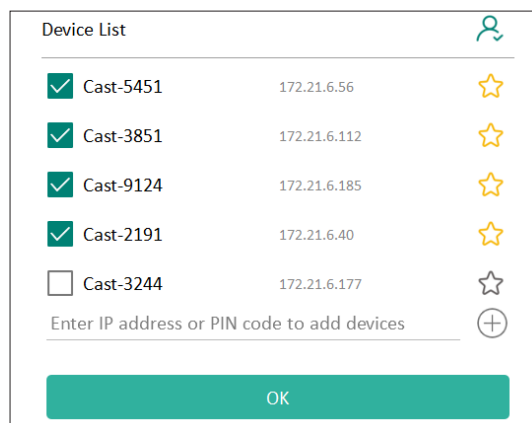


1. Toggle the “Turn On/Off Display Group” ON to enable the Display Group feature.



NOTE: Other preinstalled ViewBoard Cast devices in the same network will be listed.

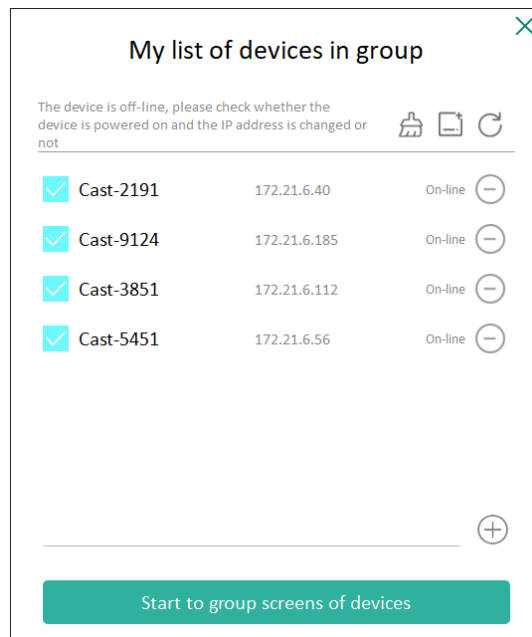
2. Select the devices you want to join the display group and select **OK** to save the settings.



NOTE:

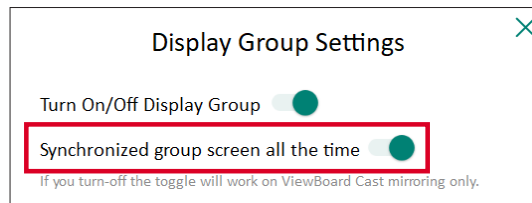
- If the devices you want to group are not listed, you can enter their respective IP address or connecting PIN code.
- The Display Group maximum device limit is six devices.

3. If you frequently connect to the same device, you can select the Star icon (☆) next to the device to add it to your frequently connected devices list, “My List of Devices in Group”, for easier Display Group setup and management.



Synchronized Group Screen All the Time

When the “Synchronized group screen all the time” function is toggled ON, it will display a synchronized group screen continuously. If it is toggled OFF, it will work on vCast mirroring only.



NOTE: Select the devices to group first, then toggle the “Synchronized group screen all the time” function ON to avoid interruption.

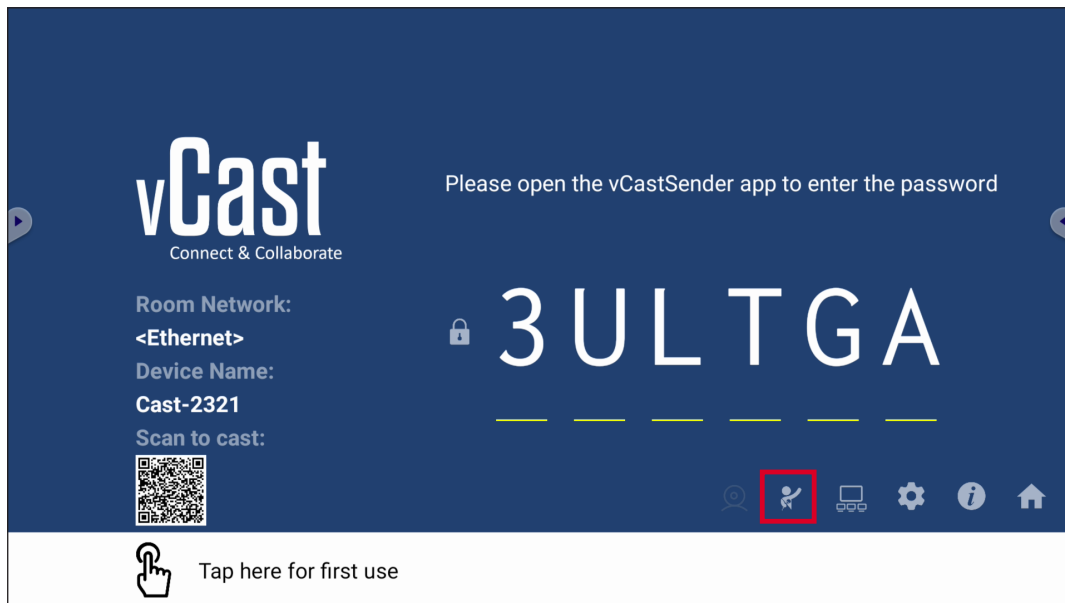
Share a Screen to the Display Group (One to Many Casting)

After confirming the above settings, you can share your screen to the main display, then the grouped client devices will be synced up to your screen.

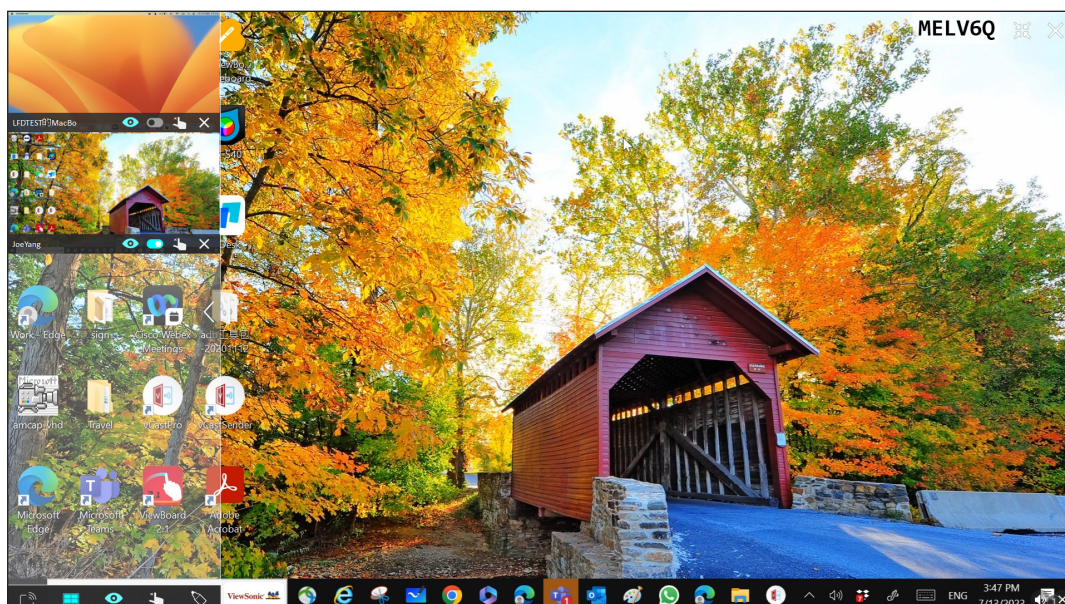


Moderator Mode

Moderator Mode allows the moderator to take control of the devices connected to the ViewBoard or display. To enter Moderator Mode, select the Moderator Mode icon (👤) located in the lower-right corner of the screen.

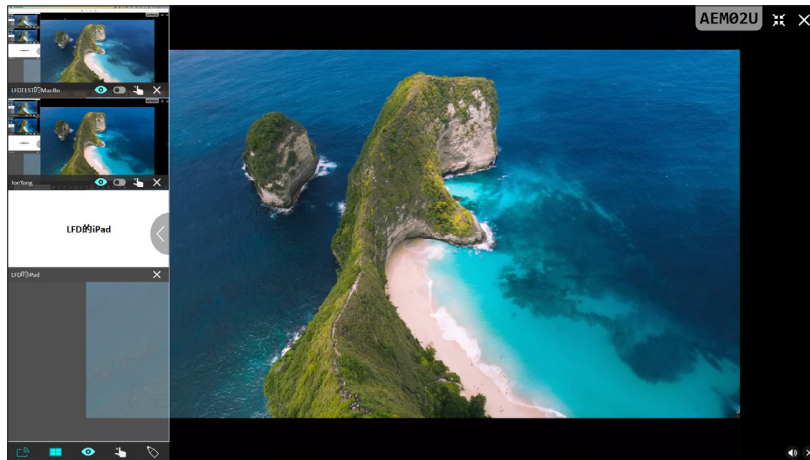


When enabled, the moderator can view a list of all connected screens in the left floating window and can preview each participant's screen and then select any of participant's screen and cast to the ViewBoard's or display's main screen for presentation. The moderator can also control each participant's screen, annotate on the ViewBoard or display, and remove unwanted participants by selecting the close icon (X).



Broadcast

When enabled, the ViewBoard's screen will be broadcasted to all of the participant's connected screens simultaneously. The participants can only view the presentation contents until the moderator disables the Broadcast function.



Multiple Screen Sharing

By default, vCast is set to allow multiple screen sharing, but can also be set to single screen sharing. To do this, the moderator can select the Multiple Screen Sharing icon to switch to single screen sharing.

Preview Screen

By default, vCast is set to let the moderator preview the participant's screen contents prior to sharing to the ViewBoard. Selecting the Preview Screen icon, the Moderator can switch to see the participant's name only.

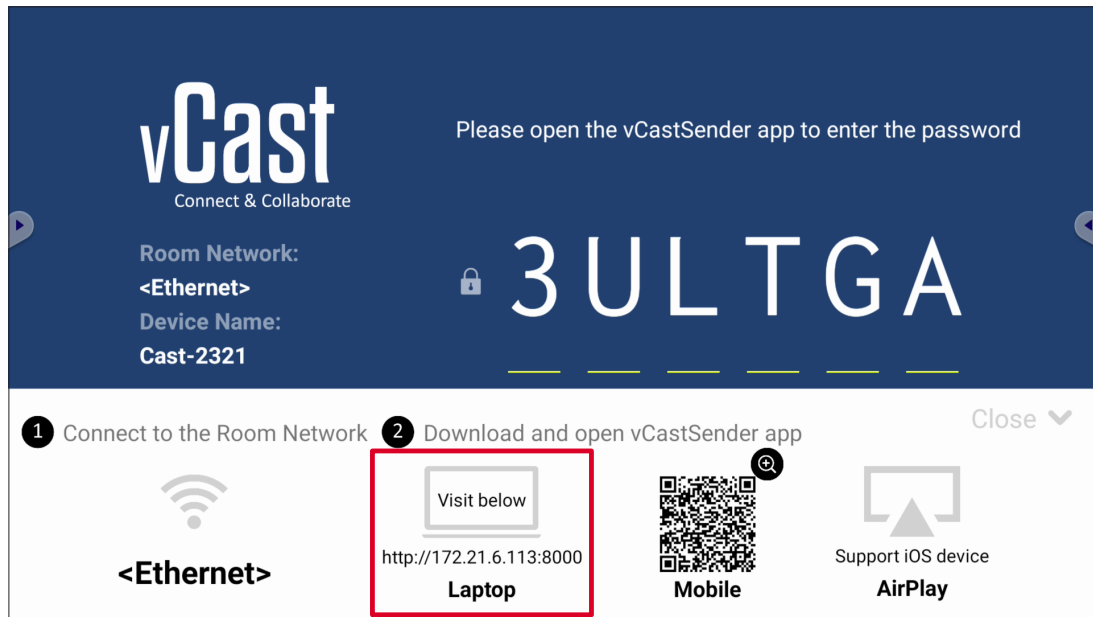
Touch

By default, participants can use touch for collaboration after connecting. The moderator can enable/disable the touch function of a participant by selecting the Touch icon in their window.

NOTE:

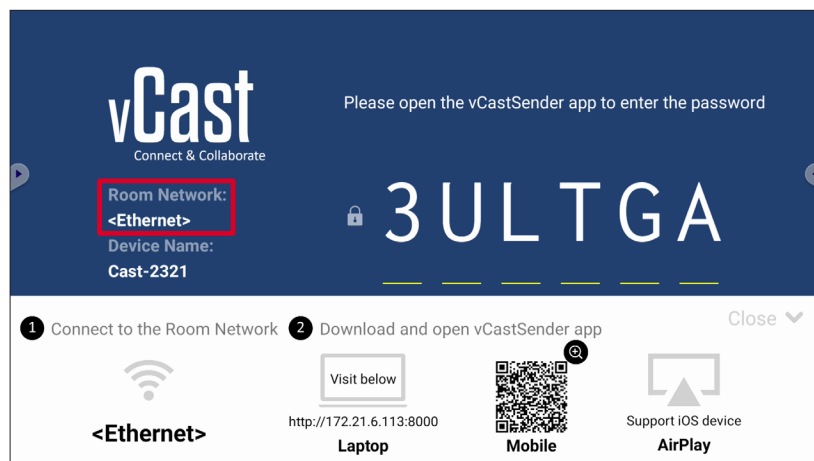
- Moderator Mode is supported on all vCastSender and AirPlay devices, but mobile devices are limited to a “preview” function. Additionally, mobile Android devices cannot cast sound out.
- When you cast your Windows/Mac/Chrome screen to a ViewBoard or display, the selected full screen unit will not be broadcasted back to your device to avoid repetitive screen casting.
- The active presenter can touch each of the participant's screens to remotely control casting devices.
- The number of multi-screen presenters on-screen depends on your Windows CPU processor performance and router specifications.

Casting from Windows, MacBook, and Chrome Devices



1. Ensure the client device (e.g., laptop) is connected to the same network as the ViewBoard.

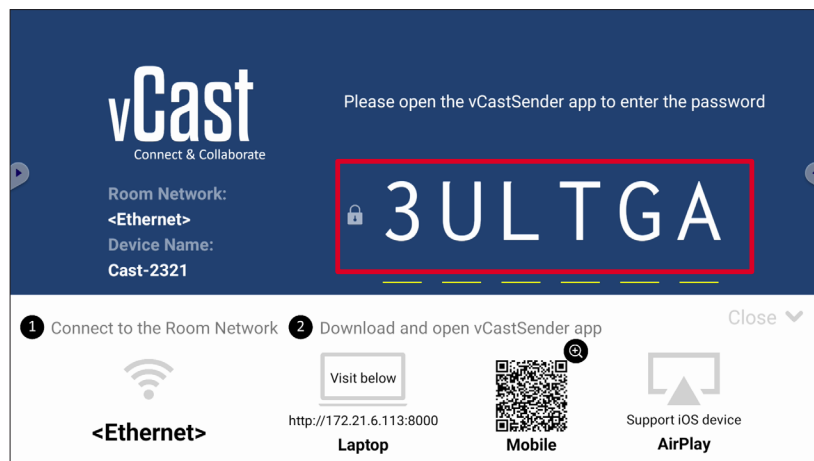
NOTE: The network name can be found under **Room Network**.



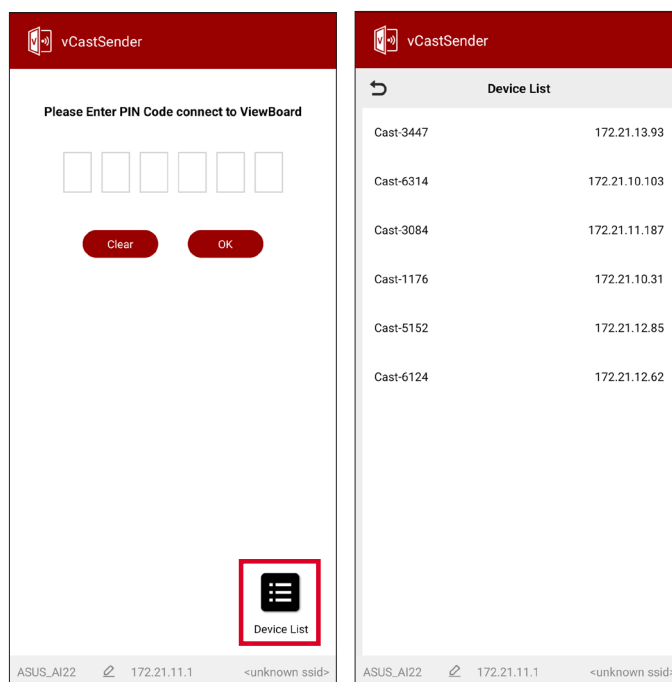
2. On the client device, visit the address that is shown on the ViewBoard to download and install the vCastSender application.
3. After installing, launch the vCastSender application.

4. To connect to the ViewBoard, input the PIN code and click OK.

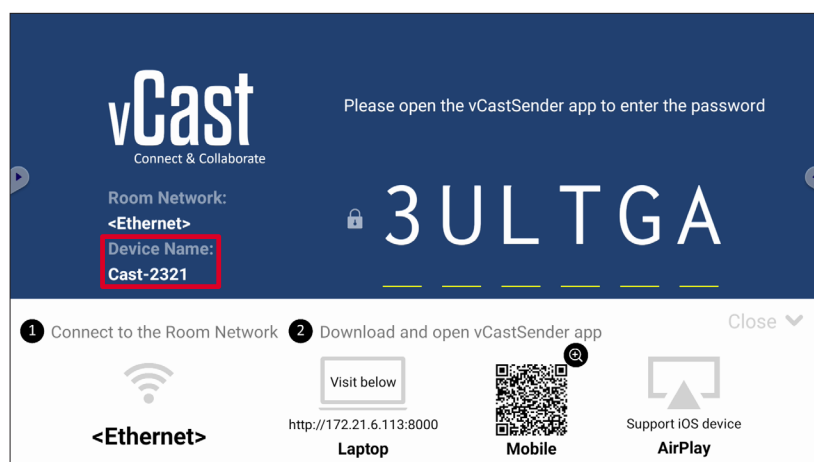
NOTE: The **PIN code** can be found as highlighted below:



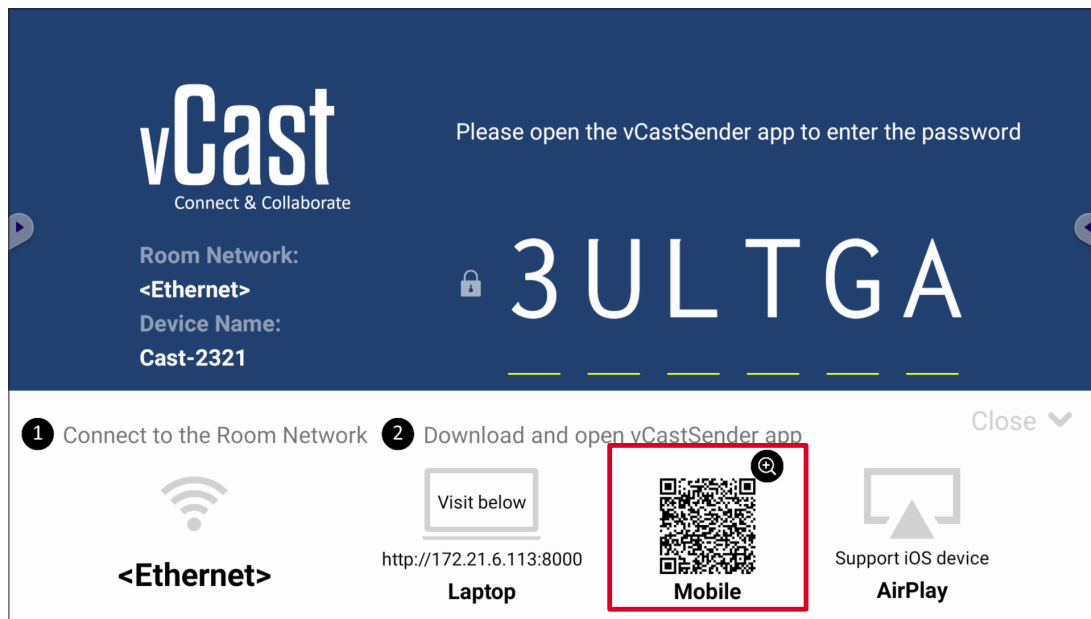
5. Additionally, you can connect to the ViewBoard by clicking **Device List** then the **Device Name** listed.



NOTE: The **Device Name** can be found as highlighted below:

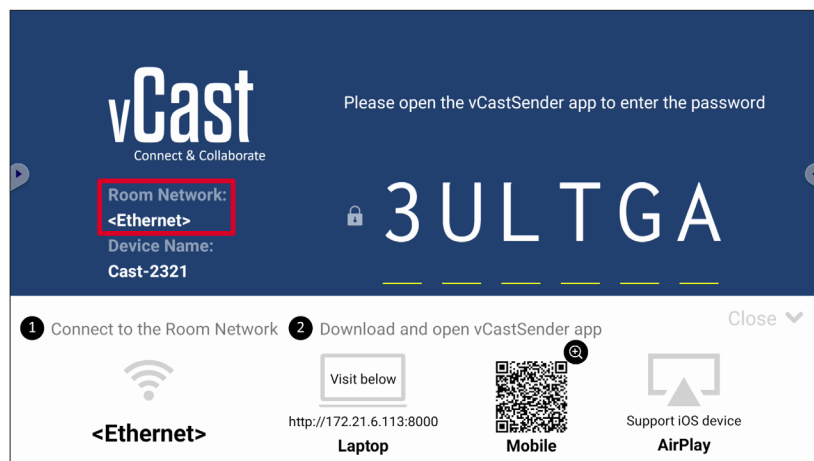


Casting from Android Devices

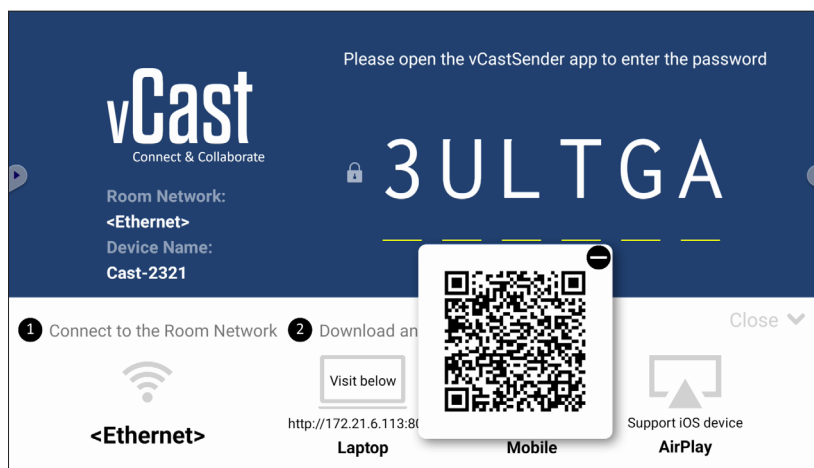


1. Ensure the client device (e.g., Android phone or tablet) is connected to the same network as the ViewBoard.

NOTE: The network name can be found under **Room Network**.

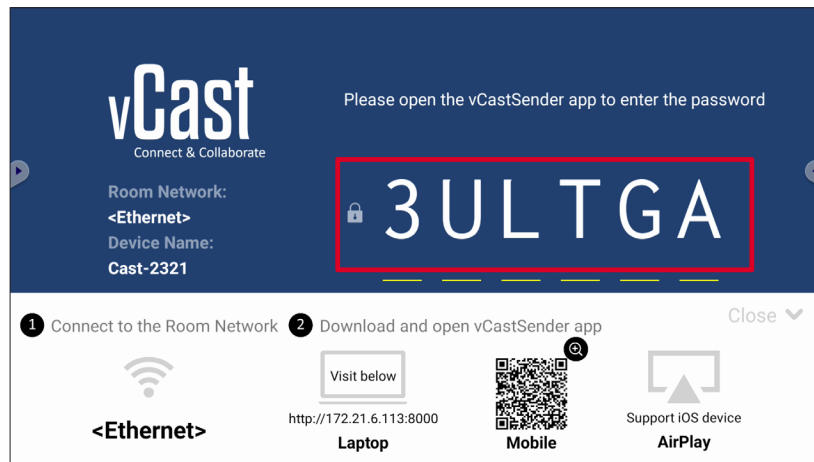


2. On the Android client device, scan the QR code shown on the ViewBoard to directly download the vCastSender application, or download the application from the Google Play Store.

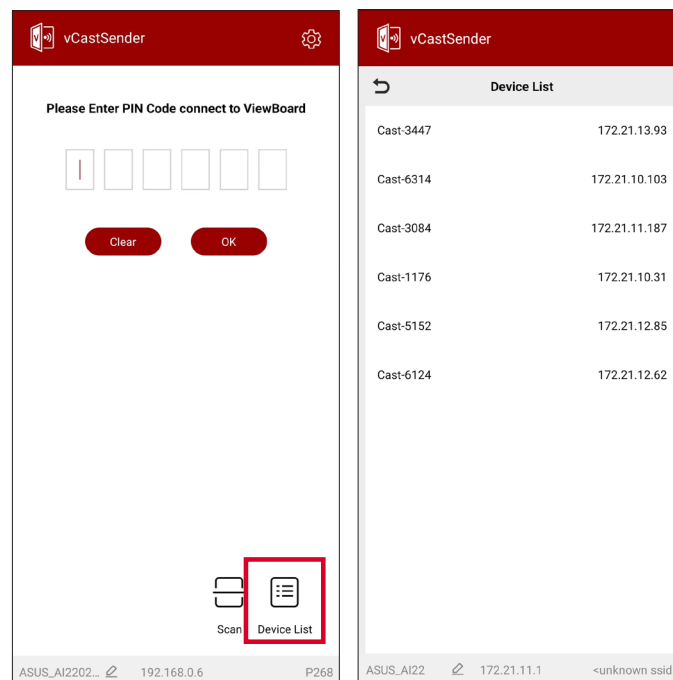


3. After installing, launch the vCastSender application.
4. To connect to the ViewBoard, input the PIN code and select **OK**.

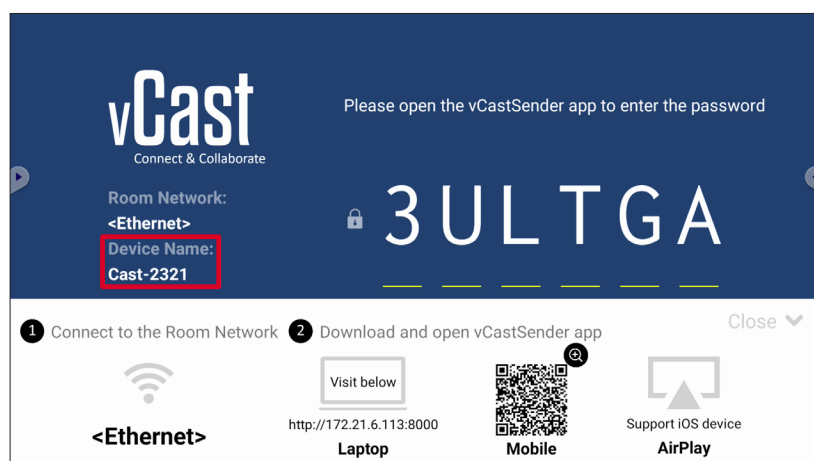
NOTE: The **PIN code** can be found as highlighted below:



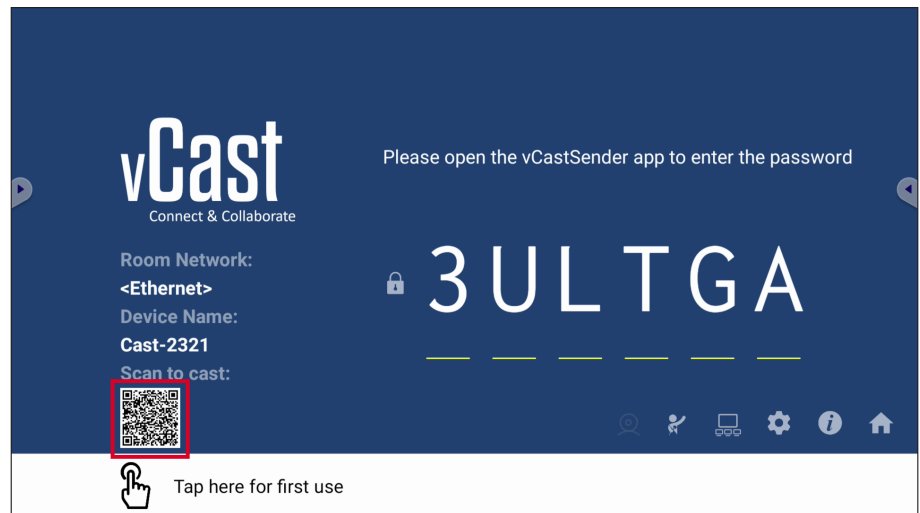
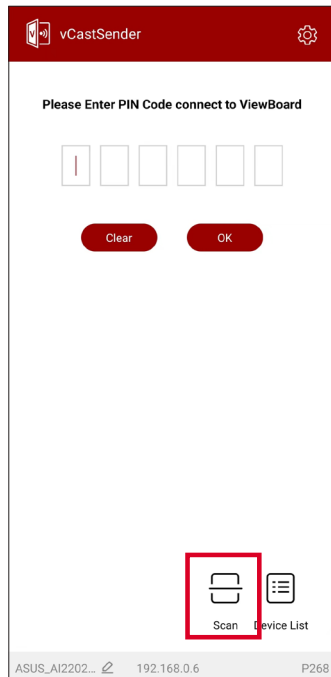
5. You can also connect to the ViewBoard by selecting **Device List** then the **Device Name** listed.



NOTE: The **Device Name** can be found as highlighted below:

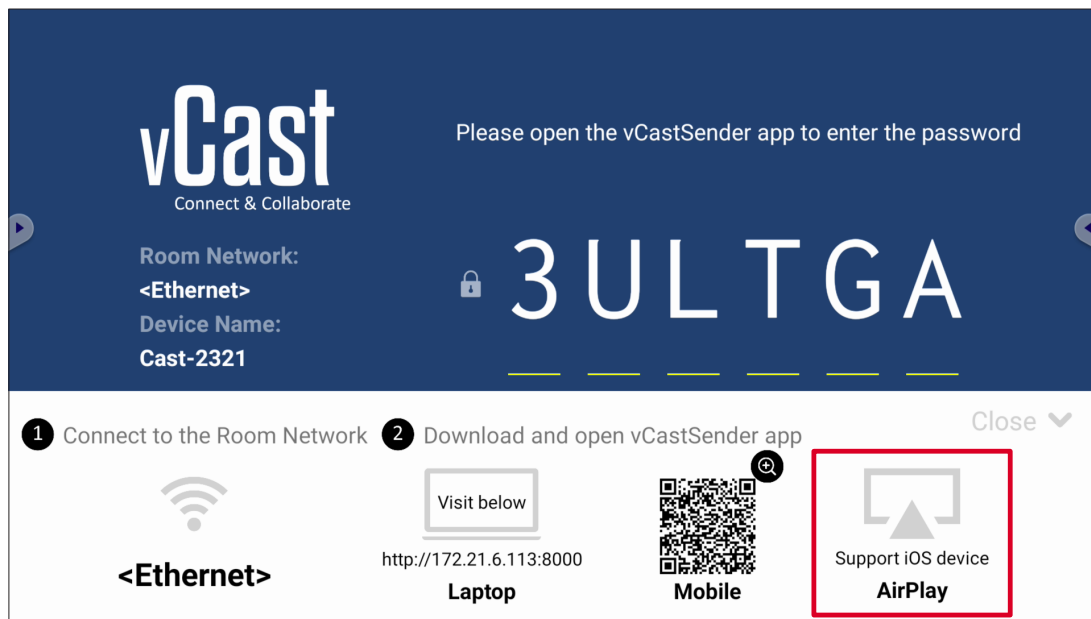


6. Additionally, you can connect to the ViewBoard or by selecting **Scan** then placing the on-screen QR code into the box to automatically connect.



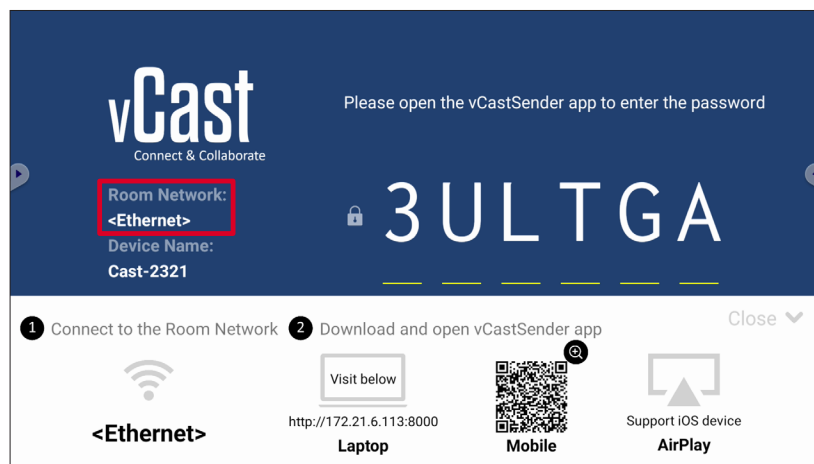
Casting from Apple iOS Devices

Apple AirPlay® is compatible with vCast for screen mirroring and content streaming under the same subnet environment only. An “AirPlay Password” will be generated on-screen for connection when using AirPlay to cast to a ViewBoard.



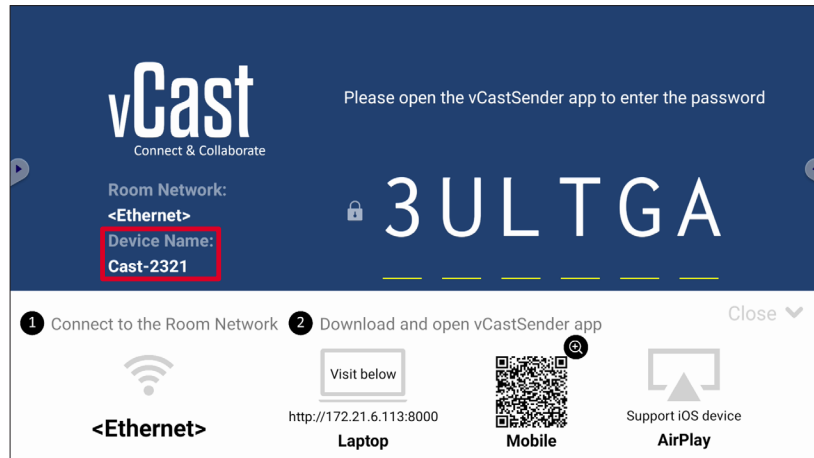
1. Ensure the client device (e.g., iPhone or iPad) is connected to the same network as the ViewBoard.

NOTE: The network name can be found under **Room Network**.

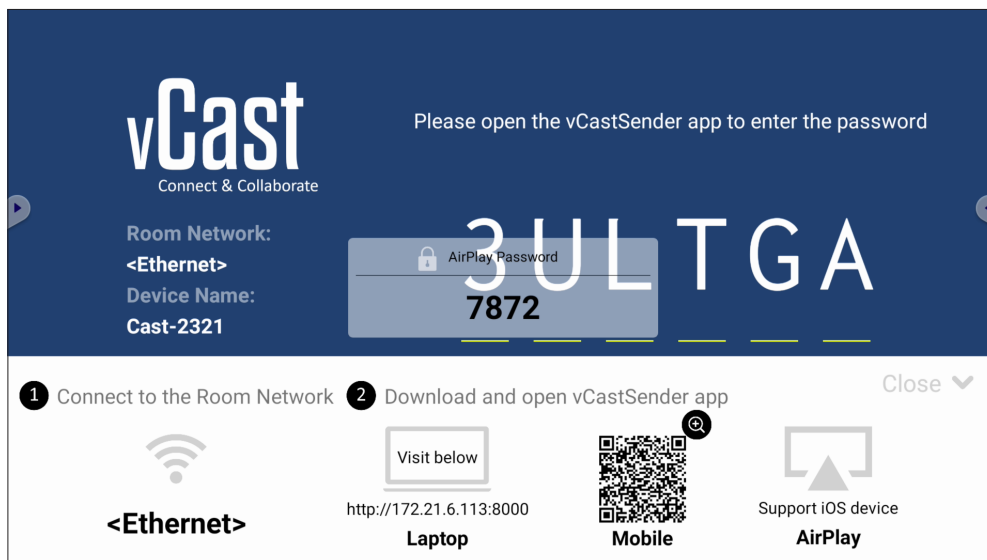


2. On the iOS client device, directly open AirPlay and select the **Device Name** of the ViewBoard to connect.

NOTE: The **Device Name** can be found as highlighted below:

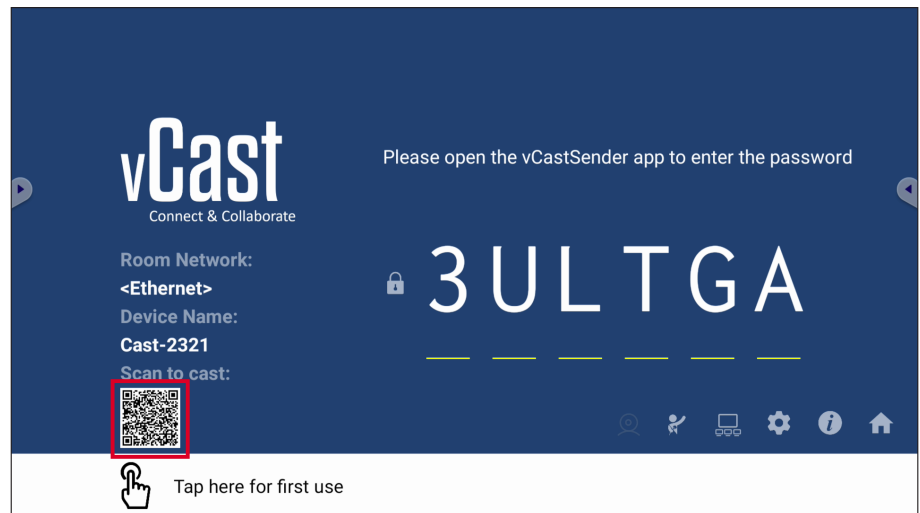
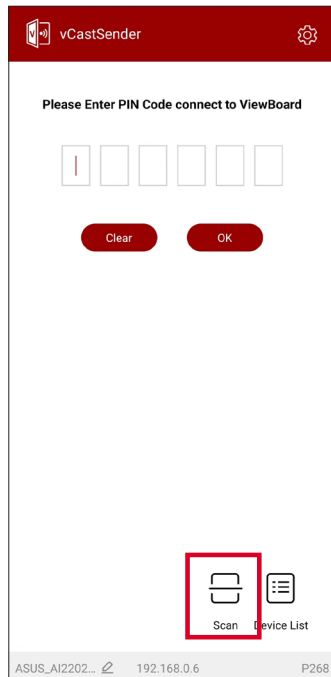


3. Input the generated on-screen **AirPlay Password** on the client device to connect.



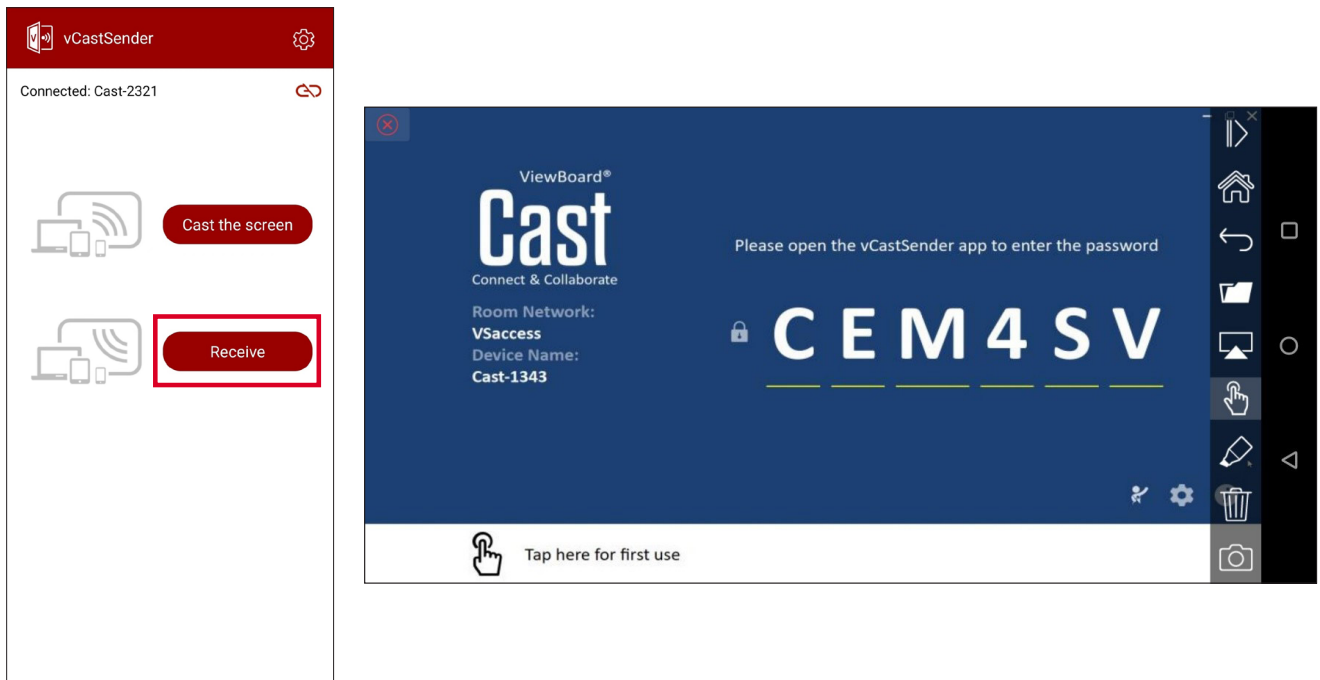
NOTE: In a cross subnet environment, please download and connect with the vCastSender iOS application from the Apple App Store.

4. You can also connect to the ViewBoard by selecting **Scan** then placing the on-screen QR code into the box to automatically connect.



Connecting to a ViewBoard from a Mobile Device

Once connected, select **Receive**. The ViewBoard will appear on the mobile device with an on-screen toolbar. Users can interact with the ViewBoard with annotations, file sharing, etc.



Item		Description
	Toggle	Hide or display the toolbar.
	Home	Return to the Home interface.
	Return	Return to the previous operation.
	Folder	View or open the mobile device's files.
	Share	Cast the mobile device's screen to the connected ViewBoard or display.
	Touch	Remotely control the connected ViewBoard or display.
	Annotate	Make annotations, and adjust the pen color.
	Clear	Clear everything on screen.
	Camera	Send camera images to the connected ViewBoard or display.

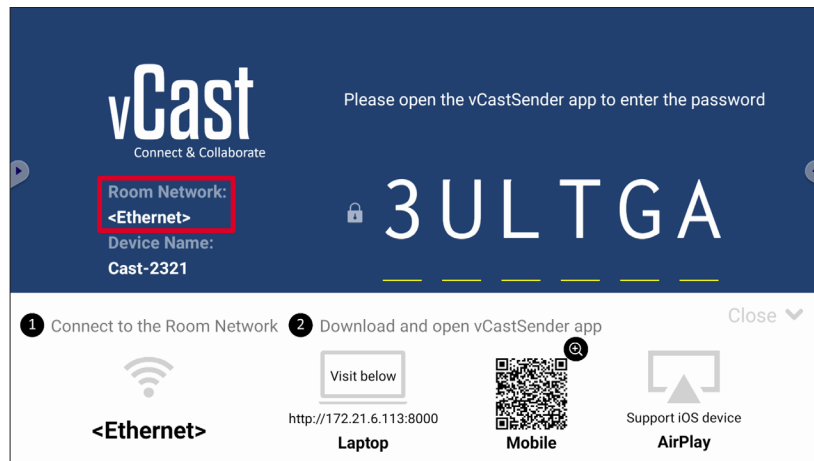
Casting with Chromecast

vCast supports native Chromecast screen sharing via the Chrome browser casting when the Chromecast feature is enabled.

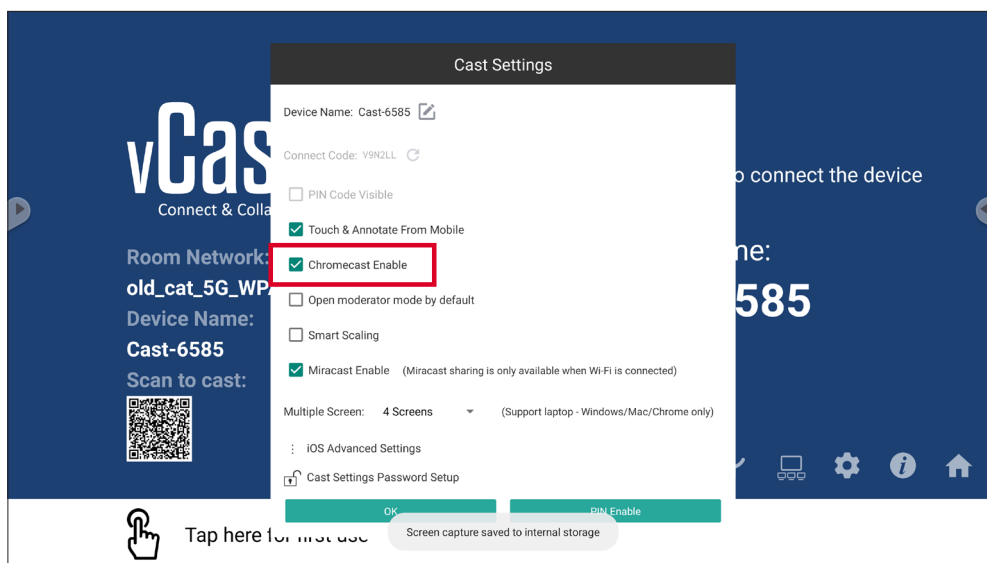
NOTE: Chromecast does not support password protection or multiple-screen casting.

1. Ensure the client device (e.g., laptop) is connected to the same network as the ViewBoard.

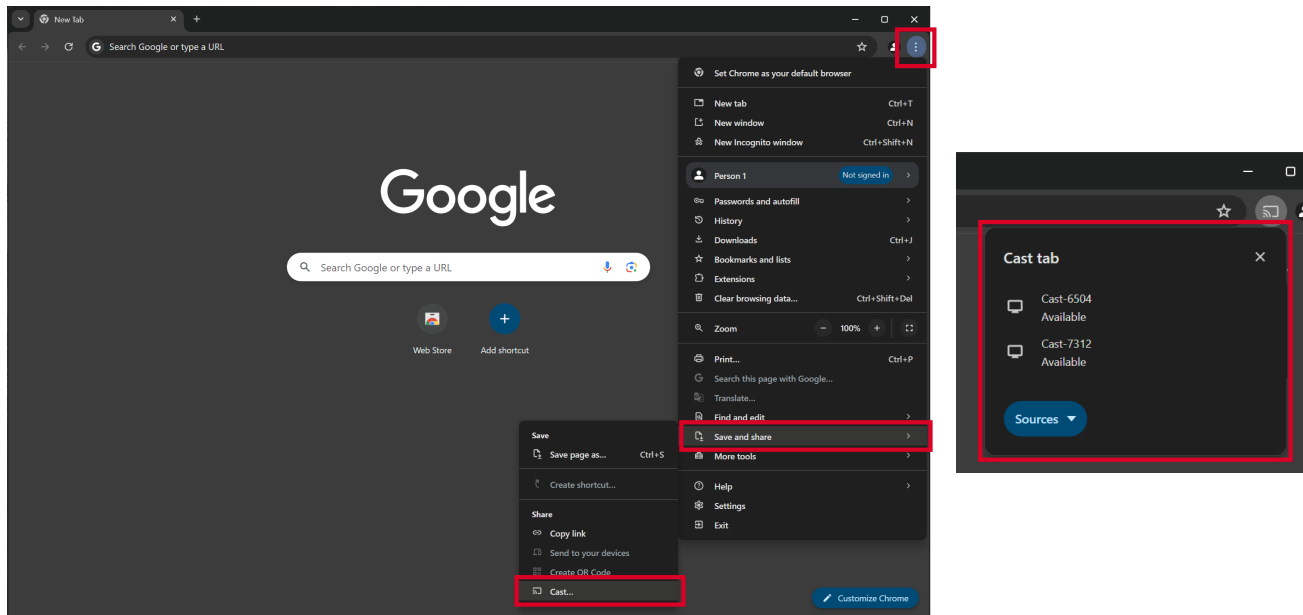
NOTE: The network name can be found under **Room Network**.



2. Ensure the **Chromecast Enable** checkbox is selected in the vCast settings.



3. In the Chrome browser, go to: **Settings > Save and share > Cast...** > Select the screen to cast to.



Casting with Miracast

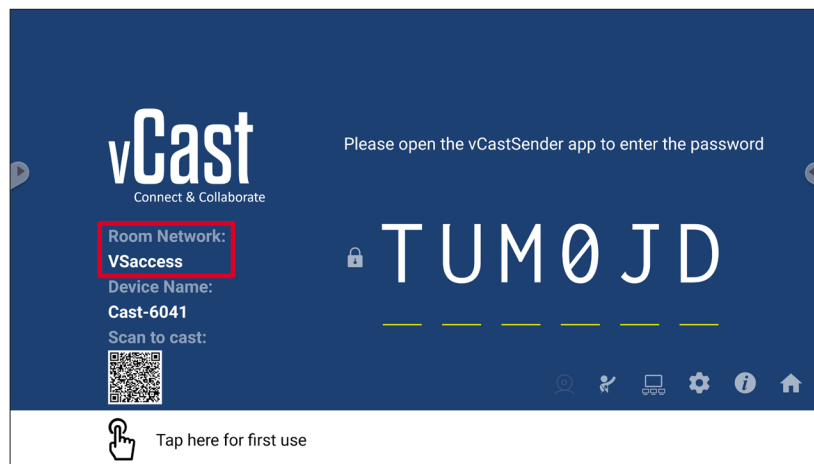
vCast supports native Miracast to cast content from Windows and Android devices to a ViewBoard when the Miracast feature is enabled.

NOTE:

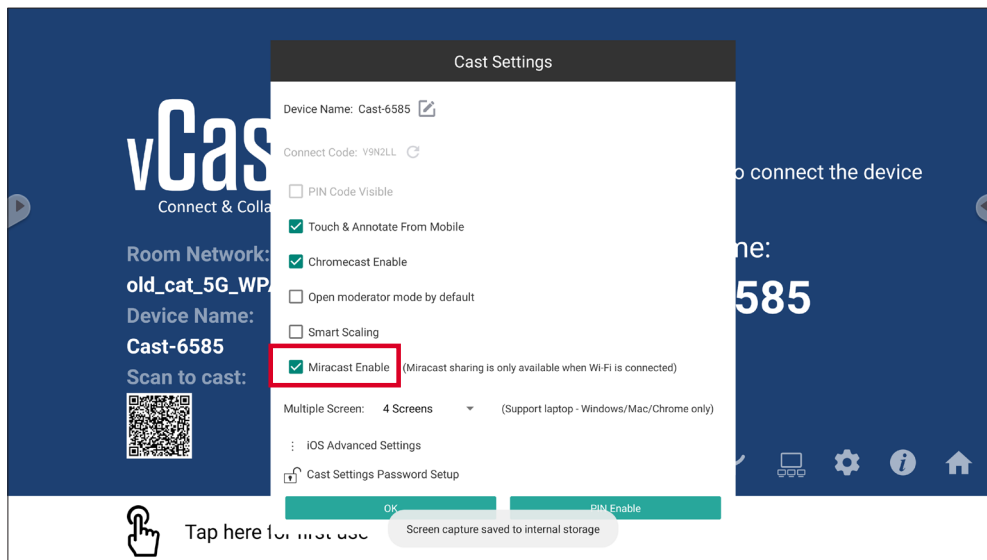
- Miracast does not support password protection or multiple-screen casting.
- Miracast sharing is only available over Wi-Fi.
- Miracast will automatically turn off after being idle for one hour.

1. Ensure the client device (e.g., laptop) is connected to the same network as the ViewBoard.

NOTE: The network name can be found under **Room Network**.



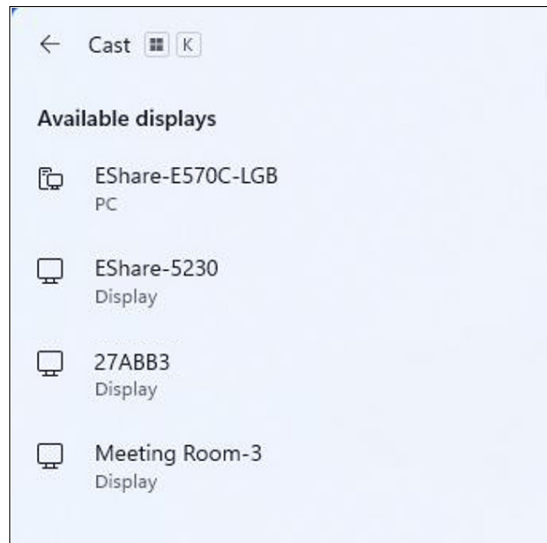
2. Ensure the **Miracast Enable** checkbox is selected in the vCast settings.



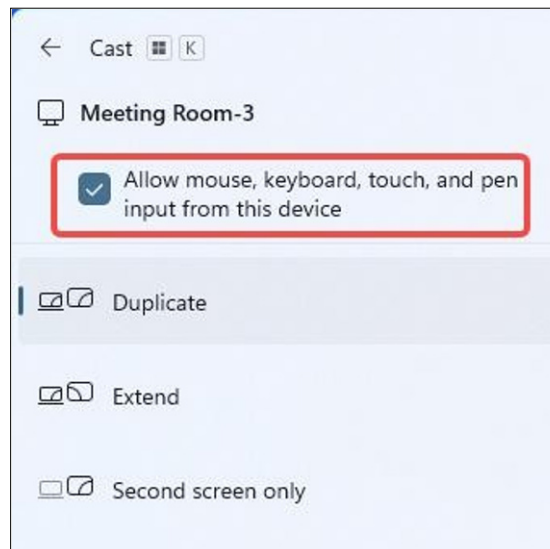
3. Please follow the below steps to cast:

For Windows devices:

1. On the Windows device, press Win + K and select the display to cast to.



2. Select the checkbox “Allow mouse, keyboard, touch, and pen input from the device” to enable the touch feedback feature.



For Android devices:

On the Android device, directly select Cast/Smart View/Wireless Projection then select the display to cast to.

Appendix

Specifications

Category	Item	Specifications
Processor	ARM base CPU	Quad-Core ARM Cortex-A55
Graphic	GPU	ARM G52 2EE
OS		Android 11
Memory	RAM	DDR4 4 GB
	ROM	eMMC 16 GB
Wi-Fi Module	Model	AW-XB547NF (IEEE 802.11a/b/g/n/ac/ax Wireless LAN 2T2R and Bluetooth 5.2 Combo Module (M.2 2230))
Antenna	Model	K4DK-680712-00 Round Cable, WIFI, X7 RF
	Frequency	2400MHz ~2500MHz; 5150MHz~5850MHz
	Peak Gain	2.4G: 4.46 dBi 5.8G: 5.52 dBi
Input	Ports	1 x DC IN 1 x HDMI IN (v. 1.4, 1920 x 1080@60Hz) 1 x LAN (RJ45)
Output	Ports	1 x HDMI (v. 2.0, 4K@60Hz) 1 x MiniDP (v. 1.2, 2K@60Hz) 1 x RS-232 1 x USB 2.0 Type A (5V/0.5A) 1 x USB 3.0 Type A (5V/0.9A) 1 x USB 2.0 Type C (5V/0.5A) 1 x Audio Out (3.5 mm)
Mounting	Dimensions (mm)	75 x 75
Physical	Dimensions (mm)	151.8 x 127.8 x 32.4 mm
	Dimensions (in.)	5.97" x 5.03" x 1.27"
	Weight (kg)	0.8 kg
	Weight (lbs.)	1.76 lbs.
Operating Conditions	Altitude	< 5000 m
	Humidity	20% ~ 90% (non-condensing)
	Temperature	0°C ~ 40°C (32°F ~ 104°F)
Storage Conditions	Altitude	< 5000 m
	Humidity	20% ~ 90% (non-condensing)
	Temperature	-20°C ~ 60°C (-4°F ~ 140°F)
Power	Consumption	AC: 17W (Max.) PoE: 24W (Max.)

Troubleshooting

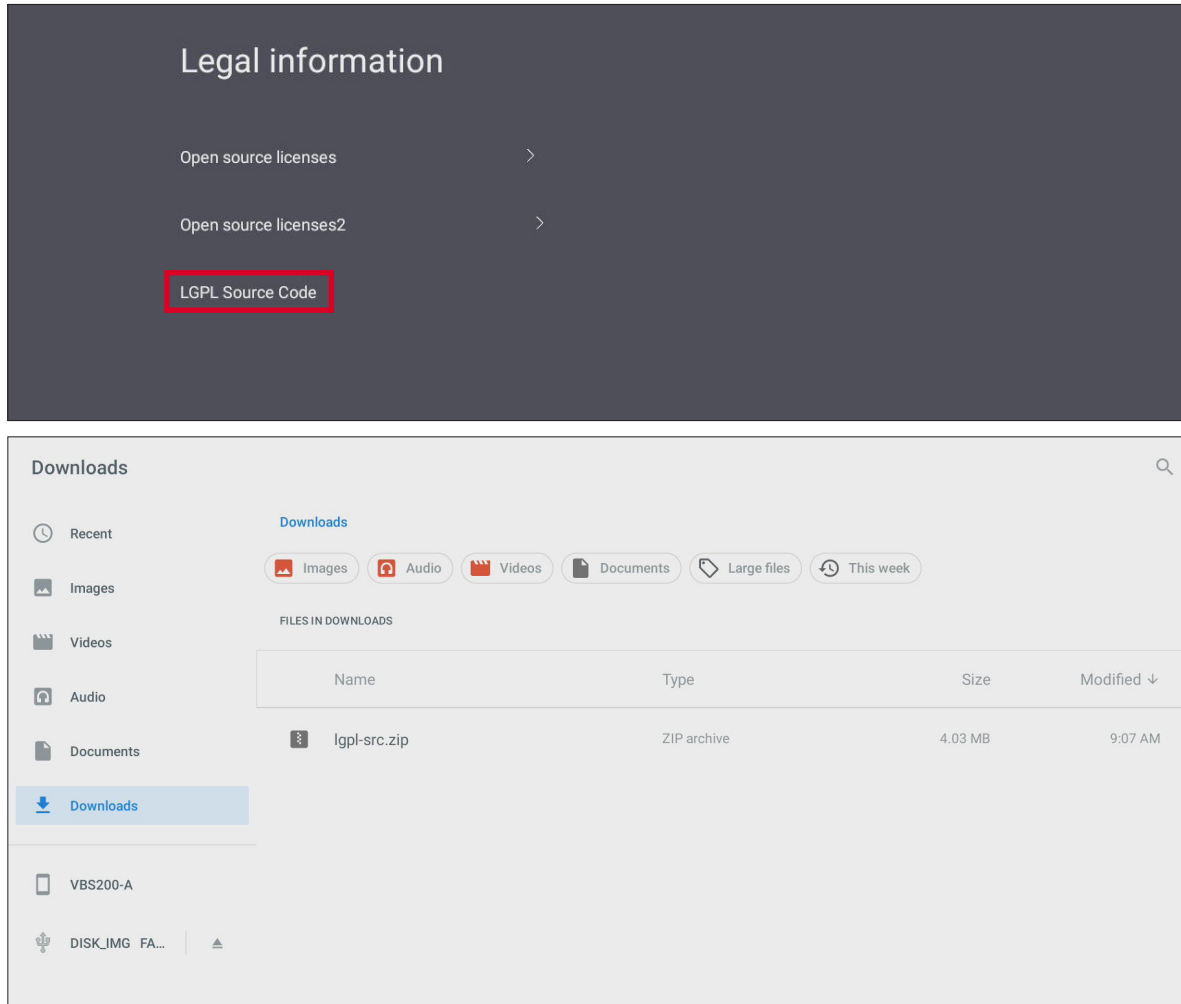
This section describes some common problems that you may experience when using the VBS200-A. If a problem persists, please contact your local service center.

Problem or Issue	Possible Solutions
The VBS200-A will not start.	If the LED does not light green during device boot up: 1. Verify that the AC adapter is properly plugged into the DC-IN jack of the VBS200-A and to the power outlet. 2. Verify that the DC connector is fully inserted into the correct socket on the front of the VBS200-A. 3. Check the power socket with another device (e.g., table lamp). If there is still no power, contact ViewSonic support or the Reseller from whom the device was purchased.
The LAN connection is not working.	1. Verify that the RJ-45 cable is connected properly. One end to the LAN port of the VBS200-A and the other end to a network connected device or a network wall port. 2. Make sure you have configured the LAN settings correctly.
There is no screen image on the connected display.	1. Verify that the HDMI cable has been plugged in properly into the correct HDMI port on both devices. 2. Make sure the correct input source (HDMI) is selected.
The ViewBoard ecosystem is inaccessible.	To properly access the ViewBoard ecosystem (including companion applications) on your network, request your IT department to open the following ports: • TCP Port 443 (HTTPS): outbound • UDP and TCP port 3478 bidirectional to the WebRTC servers • UDP Ports 50,000 – 65,535 (RTP/sRTP/RTCP) bidirectional to the WebRTC servers. These ports are optional; if blocked, media will be proxied using TURN on port 3478. The WebRTC protocol is actively used in screen sharing. Verify that these ports are open on your network firewall. To check your connectivity status, visit: https://myviewboard.com/cast2/test/index.html.

View Third Party Licenses

For Android Open Source Copyright Notice, refer to the Third-party licenses in legal information.

For LGPL source code, click on the LGPL source code in legal information. It will be automatically downloaded to **Downloads > lgpl-src.zip**.



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.

FCC Compliance Statement

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Industry Canada Statement

CAN ICES-003(B) / NMB-003(B)

CE Conformity for European Countries



The device complies with the EMC Directive 2014/30/EU, Low Voltage Directive 2014/35/EU and Radio Equipment Directive 2014/53/EU.

The following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2012/19/EU (WEEE). The mark indicates the requirement NOT to dispose of the equipment as unsorted municipal waste, but use the return and collection systems according to local law.



Para su uso en México

“La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada”.

“Este equipo ha sido diseñado para operar con antenas tipo monopolo con ganancia de 5 dBi para 2.4 GHz y 5 GHz WLAN. El uso con este equipo de antenas que tengan una ganancia mayor que 5 dBi quedan prohibidas. La antena es única y la impedancia requerida es de 50 ohms”.

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.

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



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1101 BR Amsterdam
Netherlands



+31 (0) 650608655



EPREL@viewsoniceurope.com



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

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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/		



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