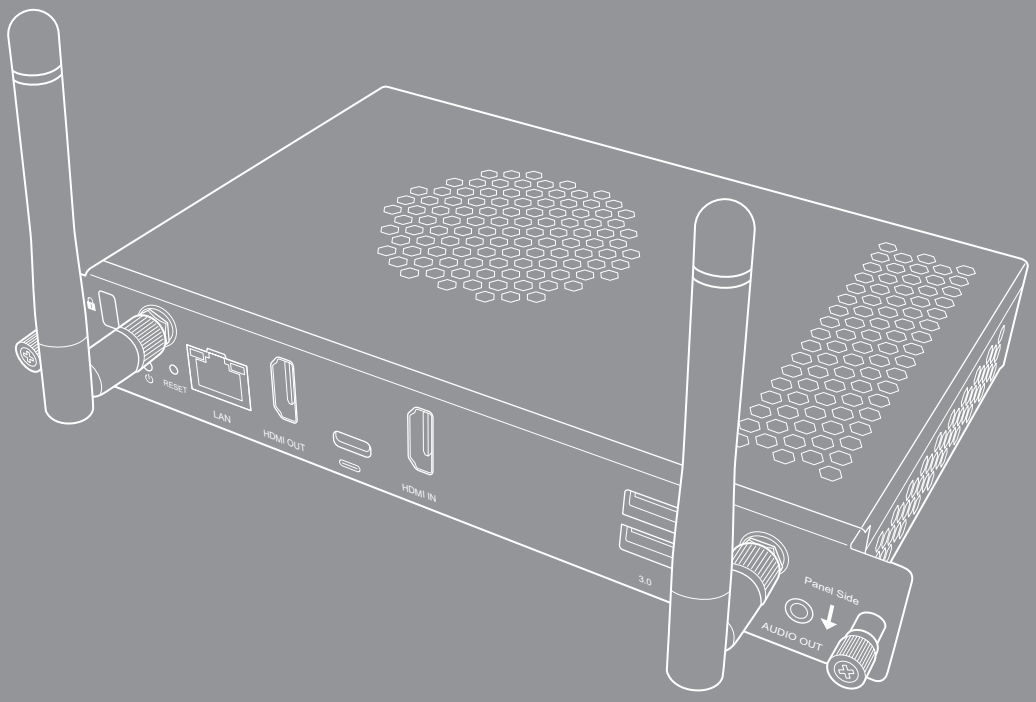
OPS200



User manual

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SAFETY

Please follow all warnings, precautions and maintenance as recommended in this user manual.

Safety Instructions

- Before using and operating this equipment, please read and observe the following precautions carefully to avoid dangerous or illegal opera tions.
- Before connecting or disconnecting any signal cables, make sure that all the power cords are unplugged in advance.
- To avoid damages caused by frequent start up and shutdown, please wait for at least 30seconds before restarting the product.
- All the operations such as removal or installation shall be implemented on the electrostatic discharge (ESD) worktable, because some precision components are sensitive to electrostatic discharge.
- If there is no ESD worktable, please take the following measures to minimize possible damages from electrostatic discharge:
  - Wear an anti-static wrist strap during operation;
  - Always touch the metal chassis of frame of the corresponding products before removal or installation of any components.
- The normal working temperature for the product is 0˚C~40˚C, and the normal working humidity is 10%~90%RH.
- Assure good cooling and ventilation.
- Dispose of or recycle the obsolete batteries properly. Keep children away from the batteries and do not throw the batteries into fire to avoid injuries.
- There are heating hole on back cover, do not spray water to it or use damp cloth for cleaning.
- Please call professional personnel for maintenance service.
- Risk of fire or explosion or defeat the safeguard of equipment if the battery is replaced by an incorrect type. Replace only with the same or equivalent type.
- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.
- High or low extreme temperatures or low air pressure at high altitude that the battery can be subjected to during use, storage or transportation.
- Leaving the battery in an extremely high temperature and/or low air pressure surrounding environment that can result in an explosion or the leakage of flammable liquid or gas.

Copyright

This publication, including all photographs, illustrations and software, is protected under international copyright laws, with all rights reserved. Neither this manual, nor any of the material contained herein, may be reproduced without written consent of the author.

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Disclaimer

The information in this document is subject to change without notice. The manufacturer makes no representations or warranties with respect to the contents hereof and specifically disclaims any implied warranties of merchantability or fitness for any particular purpose. The manufacturer reserves the right to revise this publication and to make changes from time to time in the content hereof without obligation of the manufacturer to notify any person of such revision or changes.

Trademark Recognition

Kensington is a U.S. registered trademark of ACCO Brand Corporation with issued registrations and pending applications in other countries throughout the world.

HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Google, the Google logo, and Google Drive are trademarks or registered trademarks of Google LLC.

OneDrive is a trademark and brand of Microsoft Corporation.

All other product names used in this manual are the properties of their respective owners and are Acknowledged.

FCC Statement

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.

FCC Warning

This device complies with Part 15 of the 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.

Notice: Canadian users

This Class B digital apparatus complies with Canadian CAN ICES-3 (B)/NMB-003 (B).

Remarque à l'intention des utilisateurs canadiens

Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.

Declaration of Conformity for EU Countries

- EMC Directive 2014/30/EU (Including amendments)
- Low Voltage Directive 2014/35/EU

WEEE



Disposal instructions

Do not throw this electronic device into the trash when discarding. To minimize pollution and ensure utmost protection of the global environment, please recycle it.

Eye Health

Calculating Breaks

It is recommended to take a 10-minute break every hour of continuous screen use.

Note: *Remember to blink your eyes often to keep them healthy and avoid dryness.*

Looking at Distant Objects

During breaks, look at distant objects or close your eyes.This helps to relax your ciliary (focusing) muscle and avoids eye strain.

How to Exercise Your Eyes?

1. Hold your pointer finger a few inches away from your eye.
2. Focus on your finger.
3. Slowly move your finger away from your face, holding your focus.
4. Look away for a moment, into the distance.
5. Focus on your outstretched finger and slowly bring it back toward your eye.

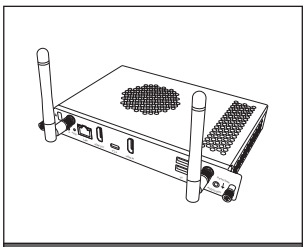
INTRODUCTION

Package Contents

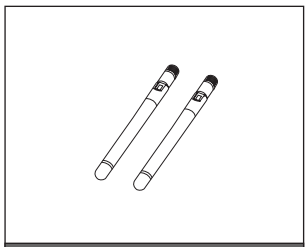
Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region to region.

The warranty card is only supplied in some specific regions. Please consult your dealer for detailed information.

Standard Accessories



OPS module



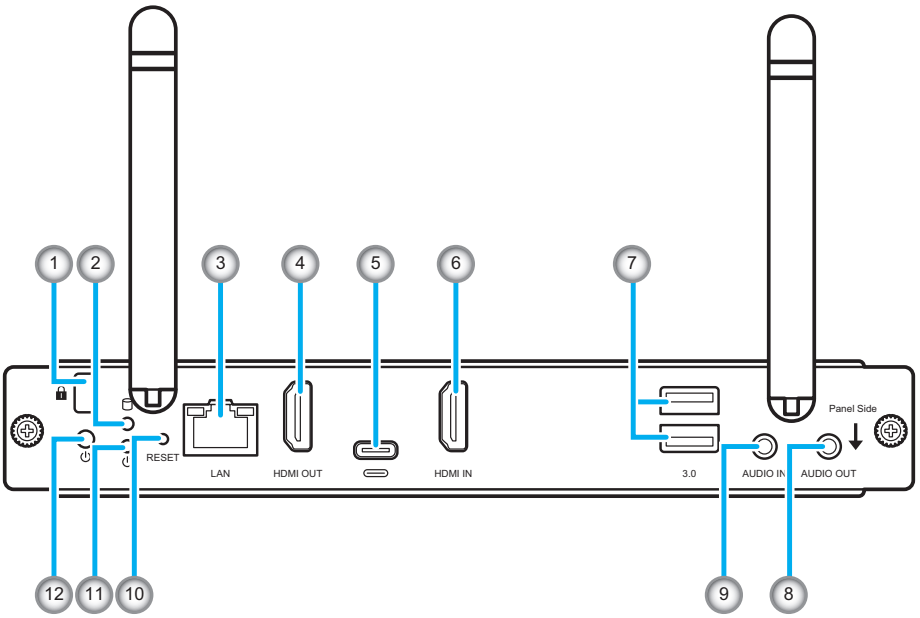
Antennas (x2)

Note: *For warranty information, please visit www.optoma.com.*

INTRODUCTION

Product Overview

Front View

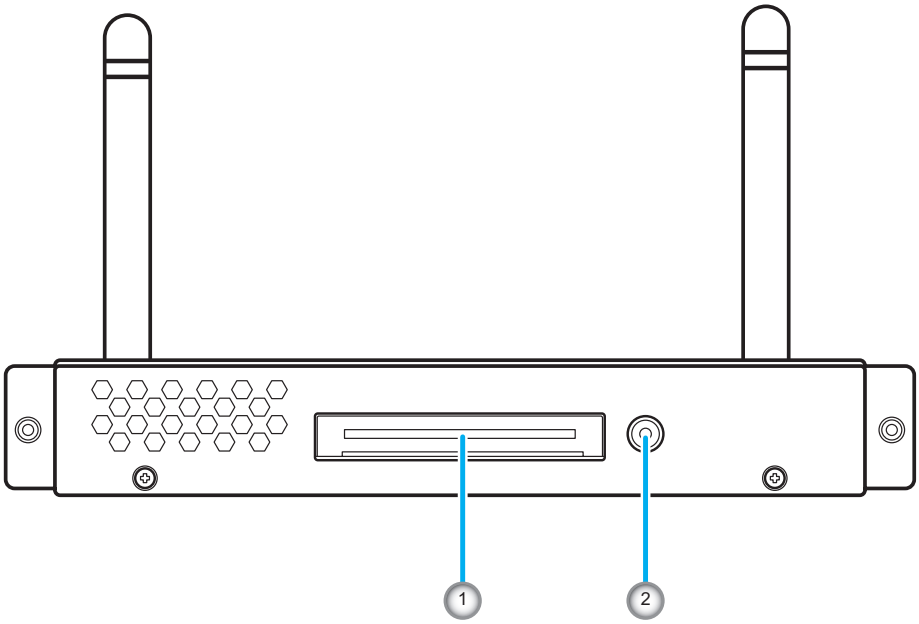


No.	Item	Description
1.		Kensington lock
2.		Storage indicator light
3.	LAN	Network interface (This network port is only used by the Android system to access the Internet).
4.	HDMI OUT	Connect to the devices with HDMI input function, for example monitor
5.		USB Type-C OUT provides up to 4k 60Hz video output, supports HDCP2.3 / HDCP1.4, and USB2.0 Dual Role
6.	HDMI IN	Connect to the devices with HDMI output function, for example computer
7.	3.0	Connect USB devices, for example mobile hard disk, USB flash drive, USB keyboard, mouse, USB drives, and more
8.	AUDIO OUT	Audio output to the external audio device
9.	AUDIO IN	Connect to a device with the audio output capabilities
10.	RESET	Reset button
11.		Power button
12.		Power indicator light

INTRODUCTION

Product Overview (continued)

Rear View



No.	Item	Description
1.	OPS 80-pin	Supports HDMI2.0 output, USB3.0x1, USB2.0x2, and DC12-19V input
2.	Power interface	DC12-19V input

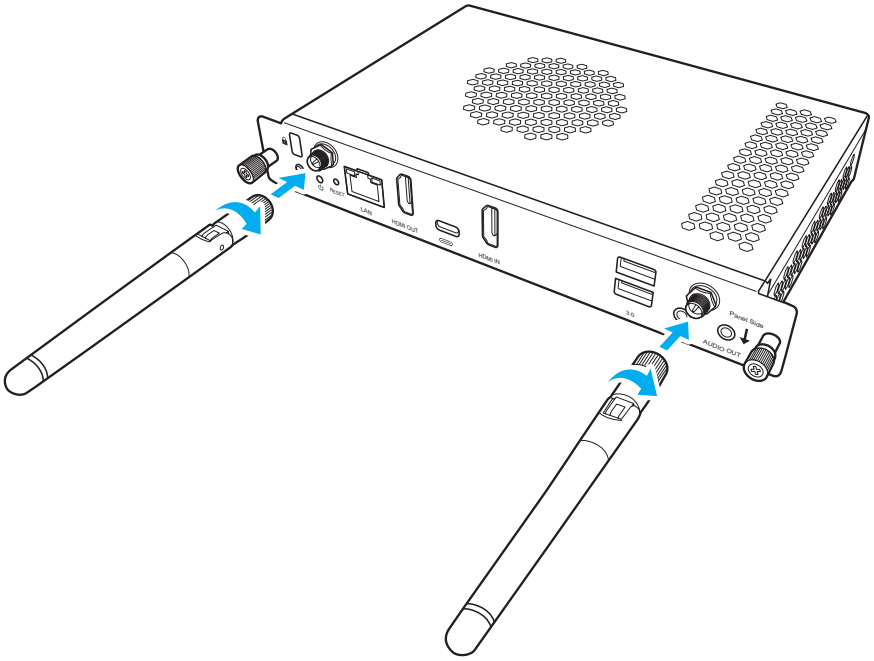
INTRODUCTION

Connections

Connecting Antennas

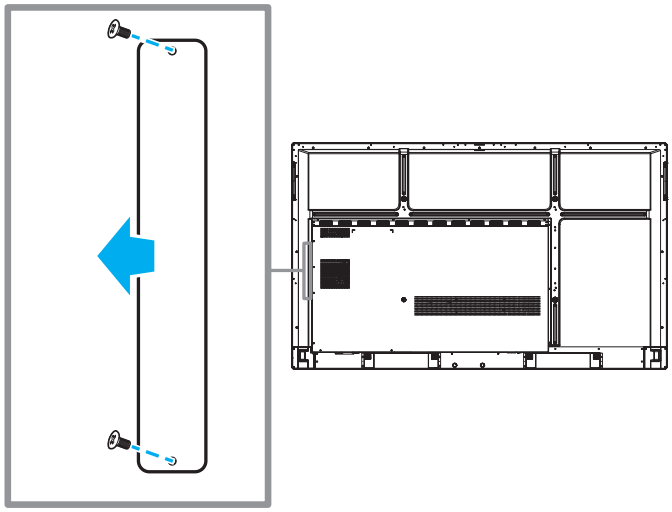
Firmly connect the antennas to their respective connectors.

IMPORTANT! *To avoid damaging the antennas, push them in a vertical, upright position.*



Installing the OPS Module

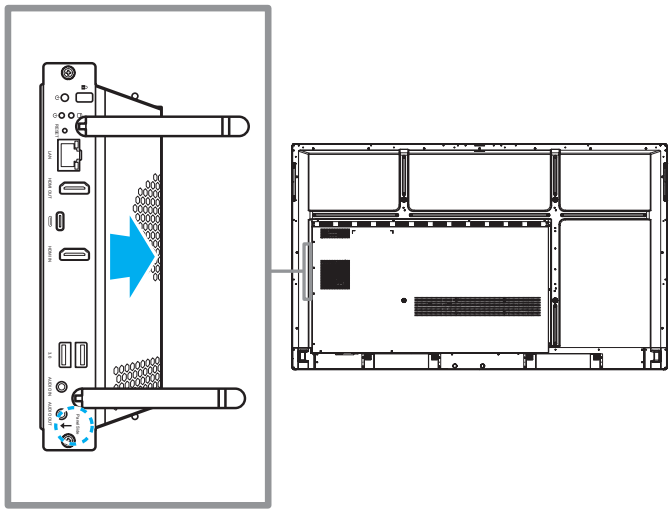
1. Remove the screws from the OPS module cover.
2. Remove the OPS module cover.



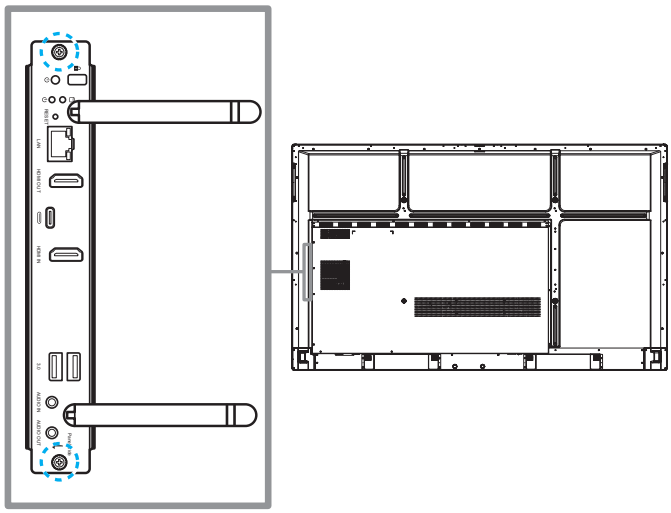
INTRODUCTION

Connections (continued)

3. With the “**Panel Side**” facing down, insert the OPS module into the OPS slot.



4. Secure the OPS module to its slot with the thumb screws.



INTRODUCTION

Connecting External Devices

IMPORTANT! *For your safety, and the safety of your device, do not apply power to the unit until all connections to the peripheral equipment have been made.*

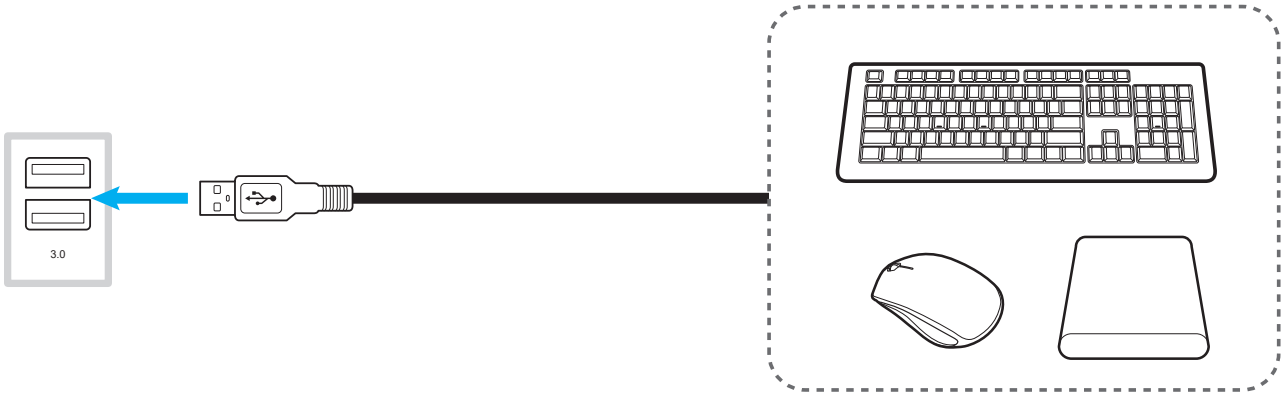
USB Type-C Connection

- Connect your display device to the OPS module using a USB type-C cable.



USB Type-A Connection

- Connect your USB devices to the OPS module using a USB type-A cable.



Network Connection

- Connect the OPS module to the network using the RJ45 cable.



Connections (continued)

HDMI Out Connection

- Connect your display device to the OPS module using an HDMI cable.



HDMI In Connection

- Connect your computer with the OPS module using an HDMI cable.



Audio In Connection

- Connect your microphone to the OPS module using an audio cable.



Audio Out Connection

- Connect your speakers with the OPS module using an audio cable.

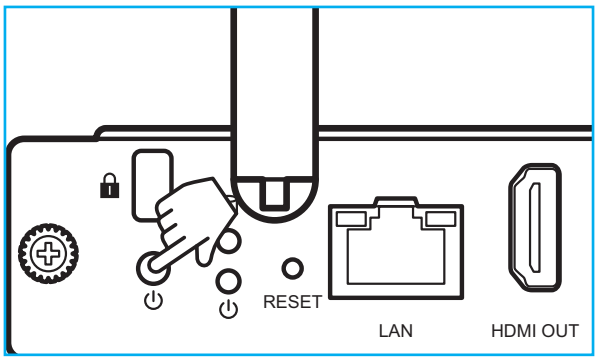


INTRODUCTION

Turning the Power On / Off

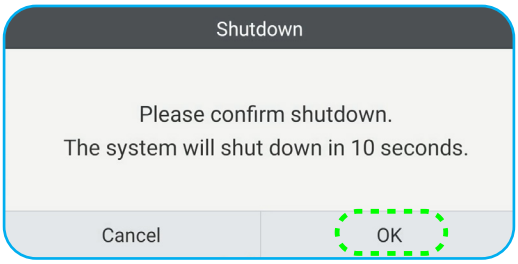
Press the **Power** button to turn on the OPS module. The storage indicator starts flashing green fast.

Note: *The power indicator remains red as long as power is supplied to the OPS module.*



Powering Off

Long press the **Power** button to turn off the OPS module. Press ***OK*** at the prompt to turn it off immediately or wait for 10 seconds until the OPS module turns off automatically. The storage indicator turns off.

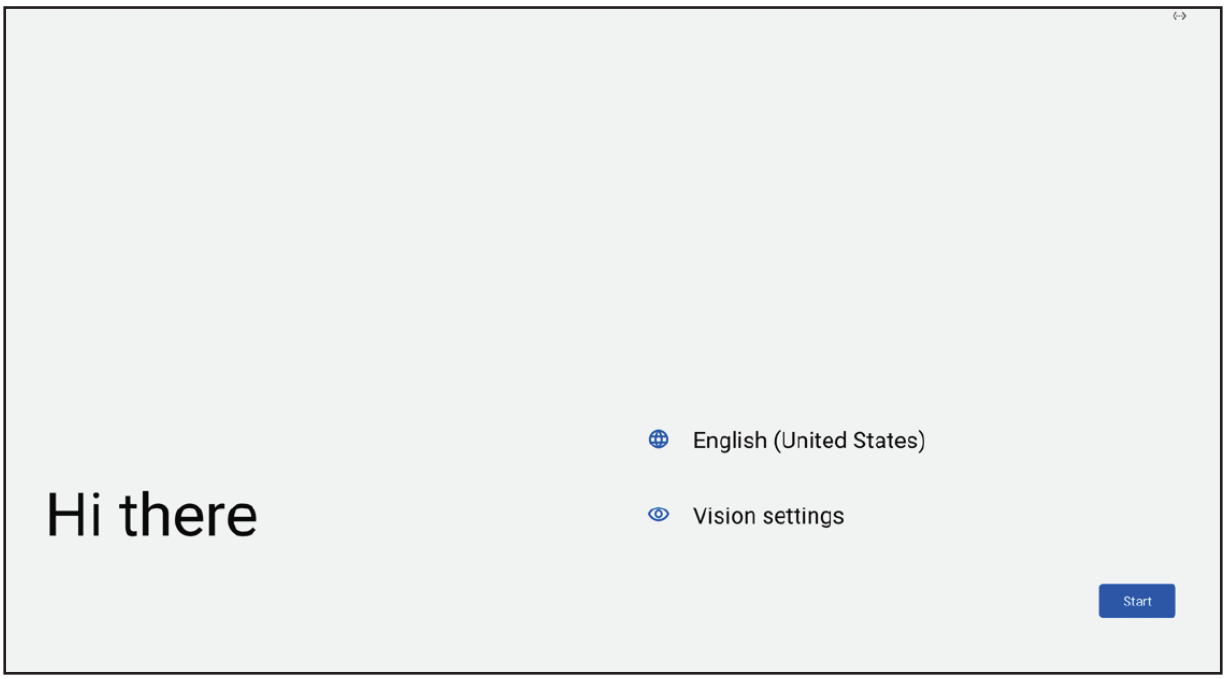


Note: *To put the OPS module into standby mode, short press the **Power** button. While in sleep mode, the power indicator remains red and the storage indicator starts flashing green slowly. To wake the OPS module from sleep, press the **Power** button.*

INTRODUCTION

Setup Wizard

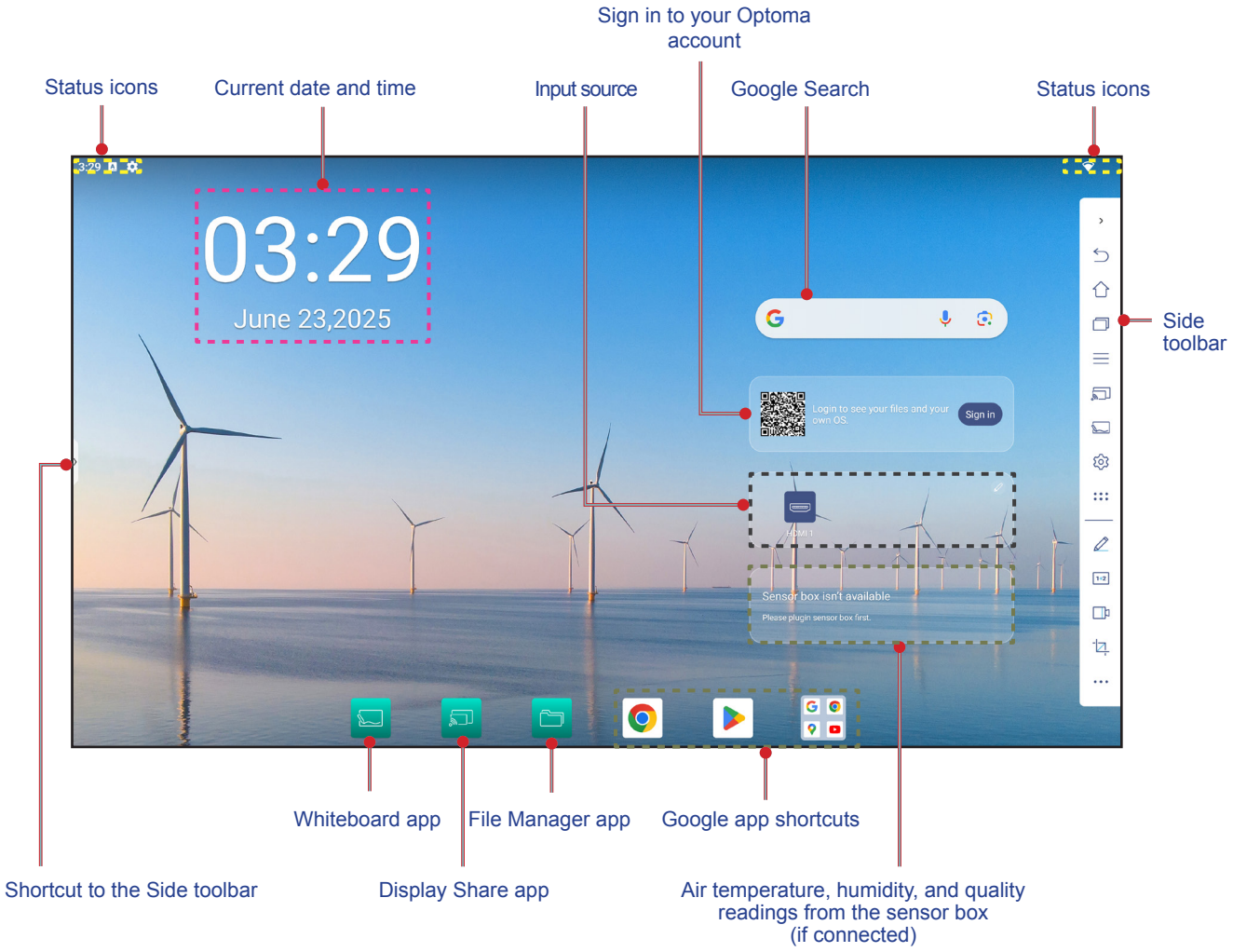
The Setup Wizard will appear on the screen when you turn on your OPS module for the first time. You are prompted to configure some basic settings, such as language, Wi-Fi, security, and more. Follow the onscreen instructions to complete the initial setup.



BASIC OPERATIONS

Home Screen Overview

Home screen is displayed every time you start the OPS module.



To navigate the Home screen, do any of the following:

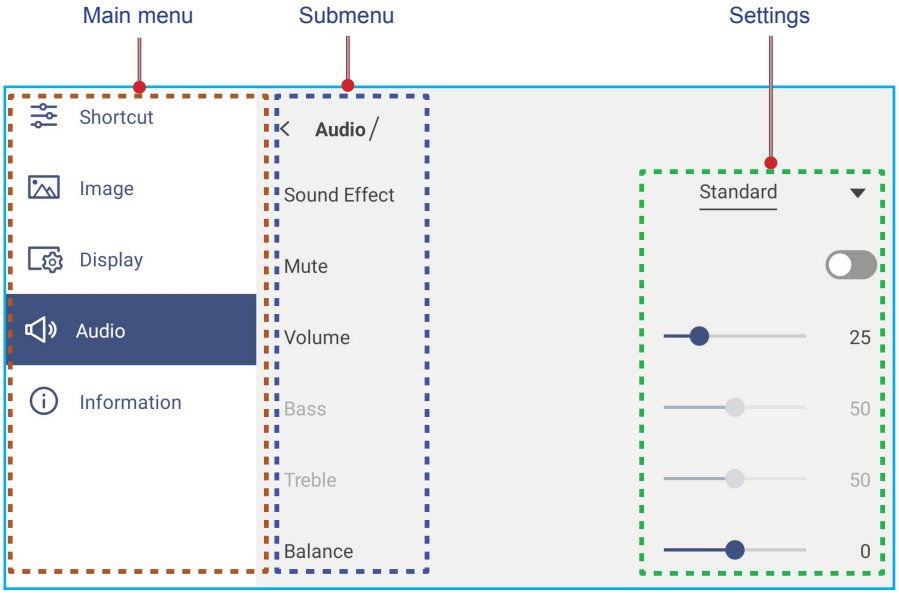
- Swipe down on the screen to open the quick settings panel.
- Swipe up on the screen to view all the installed apps.
- Swipe up from the bottom center of the screen to open the OSD menu.
- Select an option: Simply click on the desired item.
- Click and hold on an empty spot on the Home screen to change the screen wallpaper, add widgets, and configure Home screen settings. Refer to “**More Home Screen Features**” on page *59*.
- Click and hold on an app icon to view App info, Split right, or Split left the app window.
- Open the **Side Toolbar**: Click **>** or **<** on the left or right side of the screen.

BASIC OPERATIONS

OSD Menu

To open the OSD menu, swipe up from the bottom center of the screen.



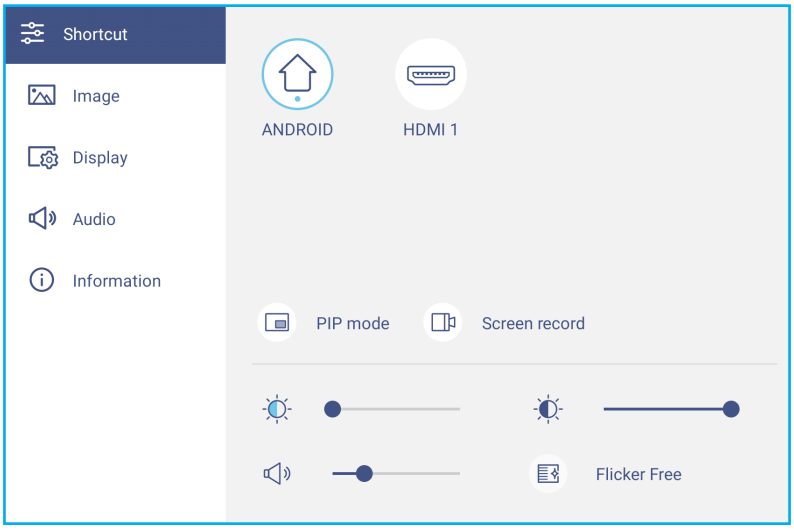


- *To configure the OSD menu settings, simply click on the menu item and use the screen controls to adjust its value or set the setting. The selected menu item is highlighted in blue.*
- *To move to the previous item in the menu, press the right mouse button.*
- *To close the OSD menu, click anywhere on the screen outside the menu or press the right mouse button continuously (if necessary).*

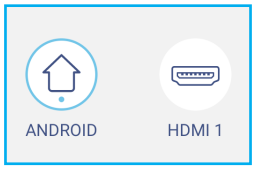
BASIC OPERATIONS

Shortcut Menu

Shortcut menu is the first OSD menu. Complete the following steps:



- Select the input source. The input source that is active is marked with the DOT ● symbol.



Note: *For more information on making connections to the external devices, refer to the "**Connections**" section.*

- Select ***PIP mode*** to display two sources on the screen simultaneously.

  Note:

  - *Before selecting the PIP mode, make sure the other source is already connected to the OPS module.*
  - *The PIP mode can only be initiated from the Android Home screen.*



Select any of the following:

- ***Sources*** to select the second source that you want to display on the screen.
- ***Size*** to select the second source window size. The available options: Full, Large, Medium, or Small.
- ***Sound*** to adjust the second source sound.

BASIC OPERATIONS

Shortcut Menu (continued)

- ***Position*** to adjust the second window position. The available options: Top-left, Bottom-left, Top-right, Bottom-right, or Center.
- ***Enter*** to close the PIP mode and switch to the second source.
- to close the PIP mode and display the primary source only.

- Select ***Screen record*** to record video from the screen and connected camera screen (if enabled) and host live stream on multiple platforms.

  Note:

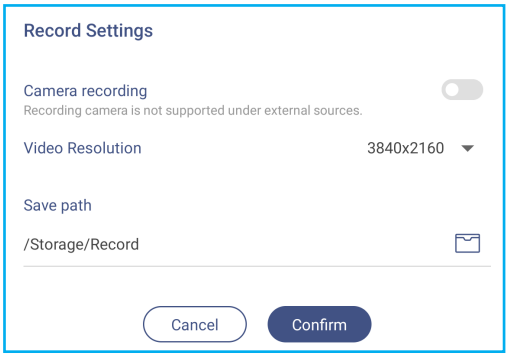
  - *You can move the recording utility to your preferred location on the screen.*
  - *The screen recording utility can only be used with Android source.*



Select any of the following:

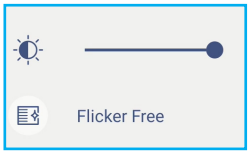
- ***Record*** to start recording the screen. The recording starts 3 seconds after you select . While recording, select to pause recording or to stop recording. Then select ***Save*** to save the recording.
- ***Settings*** to configure recording settings: enable or disable connected camera recording, select the preferred video resolution, and select the path where you want the recordings to be saved. Then select ***Confirm*** to save the settings.

  Note: *By default, all recordings are saved to the Storage/Record folder.*



- ***EXIT*** to close the recording tool.

- Drag the backlight slider bar to the right or to the left to adjust the backlight level.



Note: *For a comfortable viewing experience, you can enable Flicker Free function.*

- Drag the low blue light slider bar to the right or to the left to adjust the low blue light level.

IMPORTANT! *Studies have shown that just as the ultra-violet rays can cause eye damage, the shortwave-length blue light rays from displays can cause eyestrain, retina damage, and affect vision over time. Optoma Low Blue Light is an eye protection feature that can reduce the blue light.*



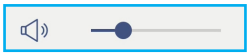
BASIC OPERATIONS

Shortcut Menu (continued)

IMPORTANT! *For protecting your eyes against prolonged display use, we highly recommend you to do the following:*

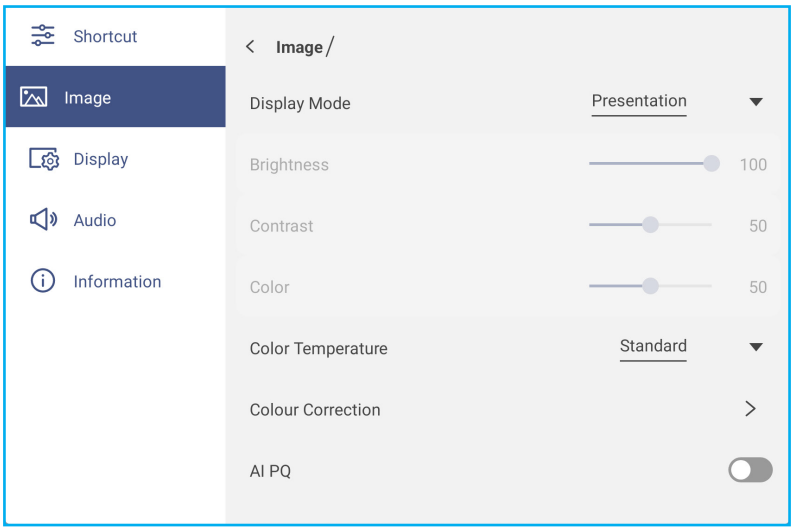
- *Let your eyes rest for 10 minutes after 2 hours of continuous use.*
- *Roll your eyes upward towards your eyebrows, and then roll your eyes in a large circle every few hours.*
- *For every 20 minutes of display viewing, look into the distance for 20 seconds.*
- *When your eyes get sore, close your eyes for a minute.*

- Drag the volume slider bar to the right or to the left to adjust the volume level.



Configuring the Image Settings

In the OSD menu, click to open the Image menu, then complete the following steps:



- Click ***Display Mode*** and select one of the available options: Presentation, Bright, Cinema, User, or HDR.

  Note:

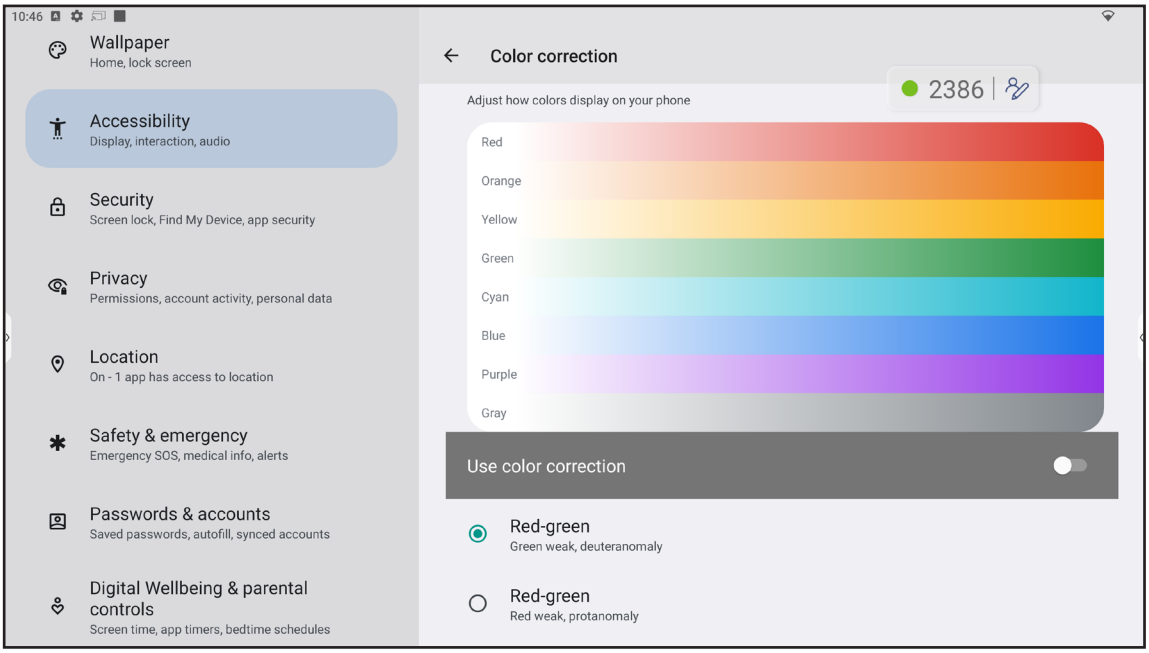
  - *If the Display Mode setting is set to **User**, you can customize image settings by adjusting the brightness, contrast, and color settings based on your preferences.*
- Drag the ***Brightness*** slider bar to the right or to the left to adjust the screen brightness level.
- Drag the ***Contrast*** slider bar to the right or to the left to adjust the screen contrast level.
- Drag the ***Color*** slider bar to the right or to the left to adjust the screen color level from black and white to fully saturated color.

  Note: *Brightness level, contrast level, and color level can be adjusted only if the Display Mode is set to **User**. In other display modes these parameters are preset and cannot be adjusted.*
- Click ***Color Temperature*** and select one of the available options: Standard, Cold, or Warm.

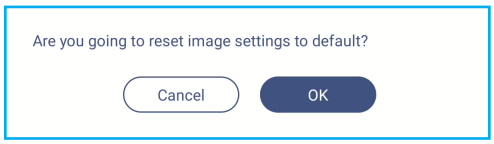
BASIC OPERATIONS

Configuring the Image Settings (continued)

- Click ***Color Correction*** to optimize the screen colors. Color correction menu opens. Select the color correction mode and enable or disable displaying Color correction shortcut on the Home screen.



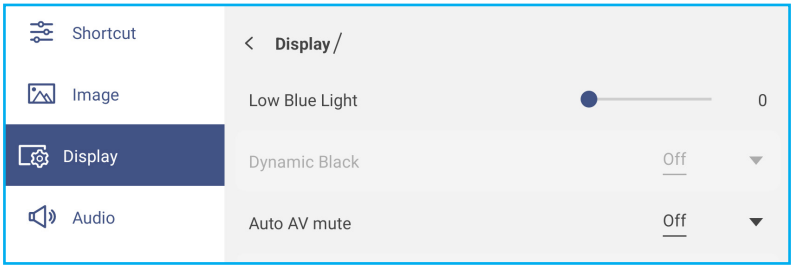
- Click AI Picture Quality(***AI PQ***) to enable real-time face and scene recognition using the integrated AI processing units for the best visual experience.
- Click ***Reset*** to reset all image settings to their defaults.



BASIC OPERATIONS

Configuring the Display Settings

In the OSD menu, click to open the Display menu, then complete the following steps:

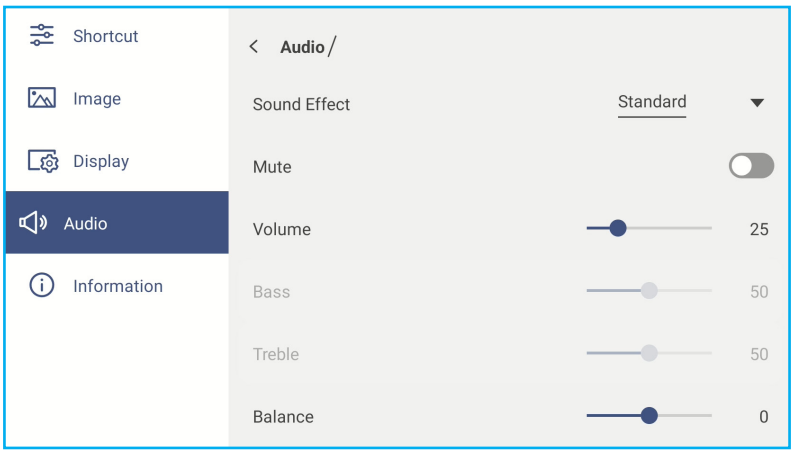


- Drag the ***Low Blue Light*** slider bar to adjust the blue light level.
  Note: *Low Blue Light can be adjusted also in the Shortcut menu. Refer to page 18.*
- Click ***Dynamic Black*** and select one of the available options: Off, Based on Content (not supported in Android), or Based on Ambient light.
  Note: *Dynamic black feature gives more depth to your image so that bright scenes appear crisp and clear, while dark scenes remain detailed with deep blacks and exceptional light and shade detail.*
- By default, ***Auto AV mute*** is off when the screen backlight is turned off and audio is muted.

BASIC OPERATIONS

Configuring Audio Settings

In the OSD menu, click to open the Audio menu, then complete the following steps:



- Click ***Sound Effect*** and select one of the available options: Standard, Meeting, Class, Movie, or User.

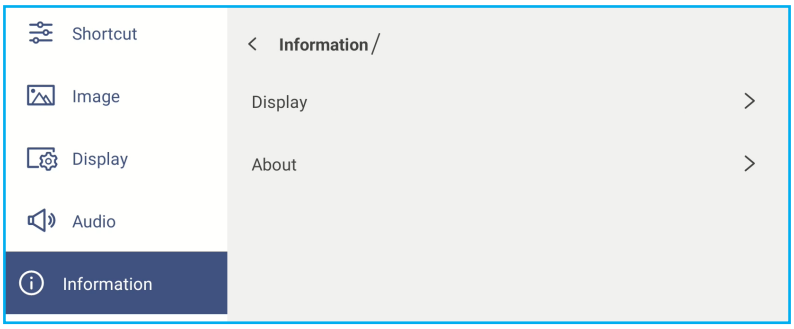
  Note: *If the sound effect setting is set to **User**, you can customize audio settings by adjusting the bass and treble level according to your preference.*
- Click ***Mute*** to mute or unmute audio.
- Click the ***Volume*** slider bar to adjust the volume level.
- Click the ***Bass*** slider bar to adjust the bass level that is suitable for your room.

  Note: *Bass level and treble level can be adjusted only if the Sound Effect is set to **User**. In other sound effect modes this parameter is preset and cannot be adjusted.*
- Click the ***Treble*** slider bar to adjust the treble level that is suitable for your room.
- Click the ***Balance*** slider bar to adjust the sound balance level that is suitable for your room.

BASIC OPERATIONS

Viewing Device Information

In the OSD menu, click ⓘ to open the Information menu, then complete the following steps:



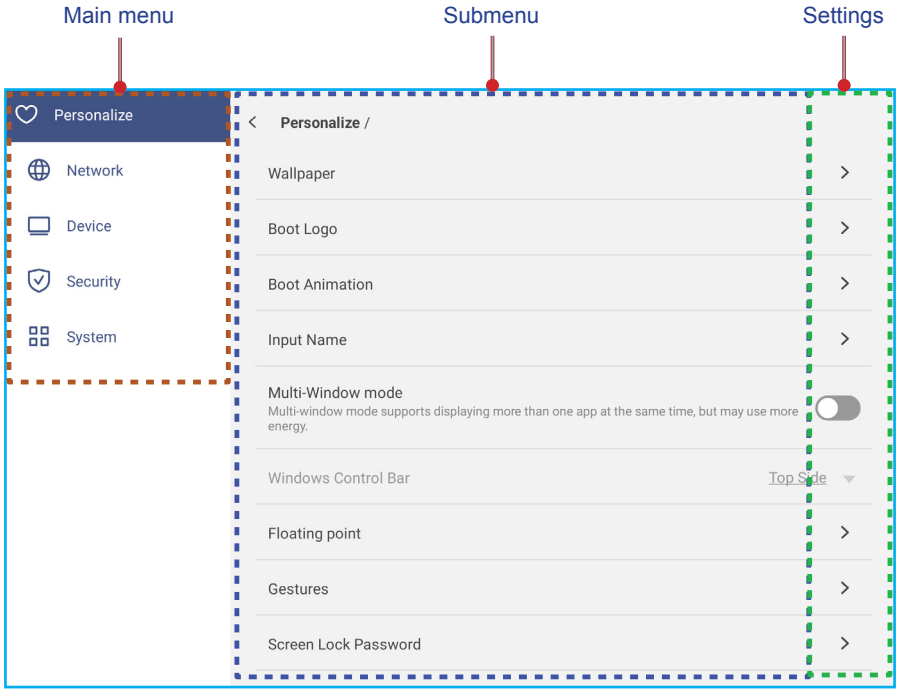
- Click ***Display*** to view display mode, current input source, and resolution.
- Click ***About*** to view model name, regulatory model name, serial number, firmware version, and Android version.

BASIC OPERATIONS

Android Settings Menu

To open the Settings menu, click **>** or **<** ⇒ on the Home screen.

Note: *Settings can be modified only in Android mode.*

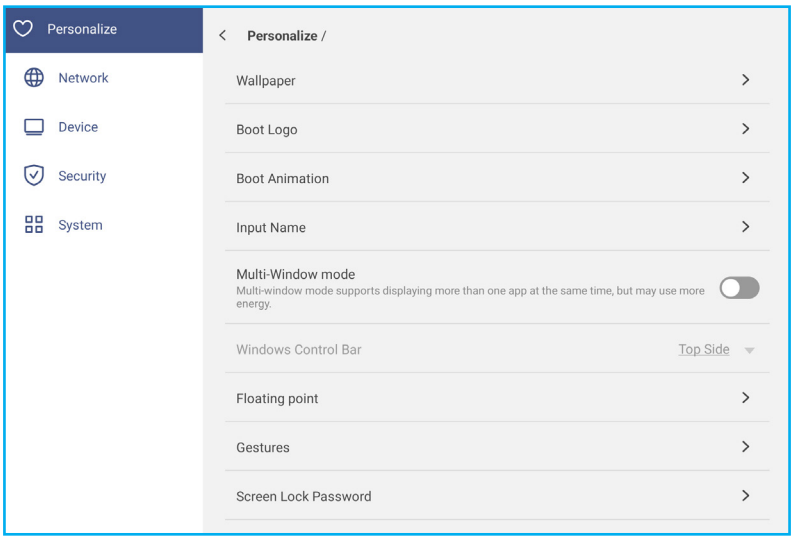


Note:

- *To configure Android settings, simply click on the menu item and use the screen controls to adjust its value or set the setting. The selected menu item is highlighted in blue.*
- *To move to the previous item in the menu, press the right mouse button.*
- *To close the Settings menu, click anywhere on the screen outside the menu or press the right mouse button continuously (if necessary).*

Personalizing the System

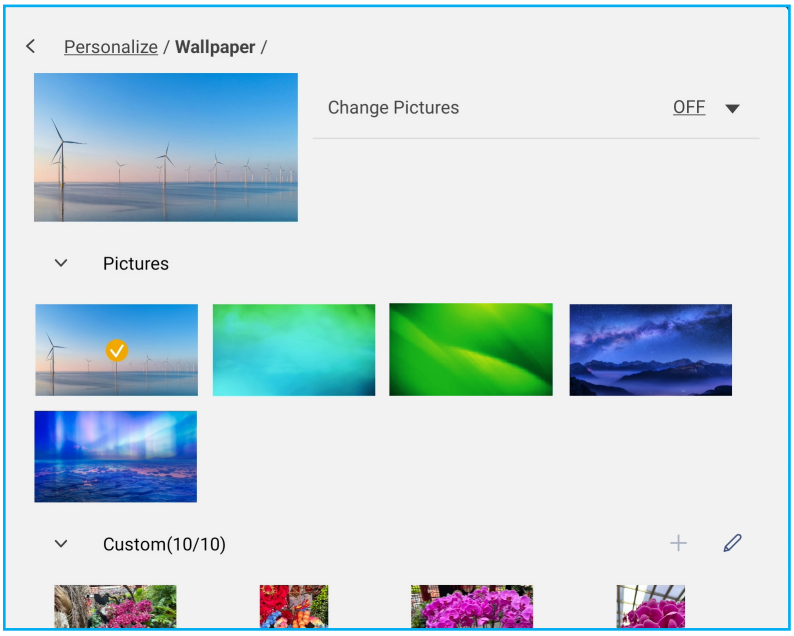
In the Settings menu, click ♡ to open the Personalize menu, then complete the following steps:



BASIC OPERATIONS

Personalizing the System (continued)

- Click ***Wallpaper*** and select a pre-loaded image as a wallpaper or an image from your gallery.



If you select a pre-loaded wallpaper from the Pictures folder, the setting will take effect immediately.

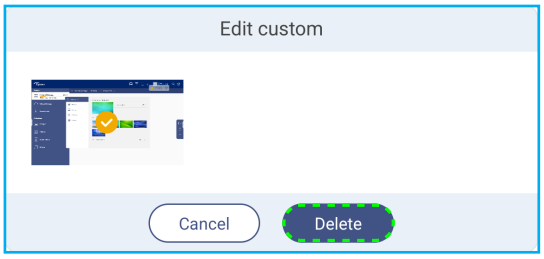
If you prefer to use a customized wallpaper, follow these steps:

a) To the right of the Custom section of the Wallpaper menu, click +.

b) Select your preferred image from the local or external storage and click ***OK***. You can import up to 10 images.

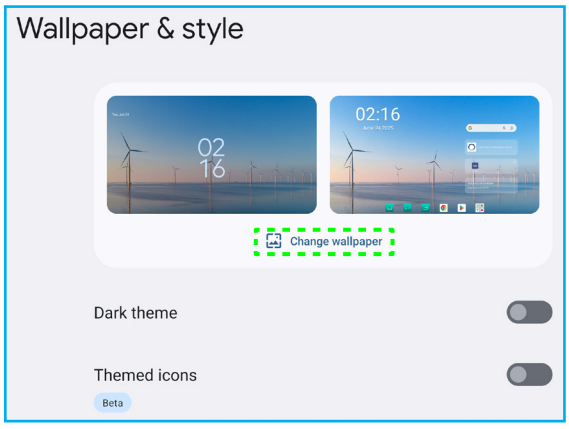
c) Once your custom wallpapers have been uploaded, click on the image you wish to use as a wallpaper. The setting takes effect immediately.

Note: *To delete your custom images, click ✎. Then select the image and click* ***Delete****.*



- ***Change pictures***: Select the slideshow interval from 5 mins to 1 day. By default the slideshow is off.

Note: *You can also set a wallpaper by clicking and holding anywhere on the Home screen ⇒ Wallpaper & style ⇒ Change wallpaper.*



BASIC OPERATIONS

Personalizing the System (Continued)

- Click ***Boot Logo*** to modify the logo/image displayed during the bootup process. Follow these steps:

  a) To the right of the Custom section of the Boot Logo menu, click +.

  b) Select your preferred image from the local or external storage and click ***OK***. You can import 1 image at a time. The image must be in JPEG or JPG format with a resolution of 1920x1080. After importing the logo image, click on it and then you can see it in the preview window.

  c)To delete the custom logo image, click ✎. Then select the image and click **Delete**.

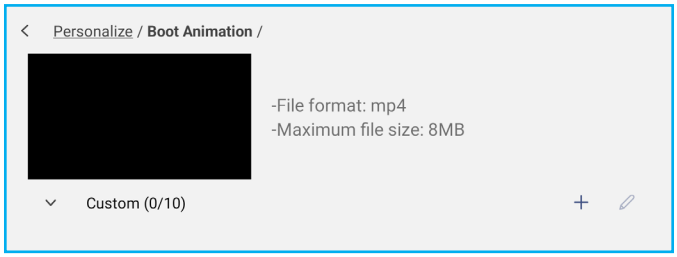


- Click ***Boot Animation*** to modify the animation displayed during the bootup process. Follow these steps:

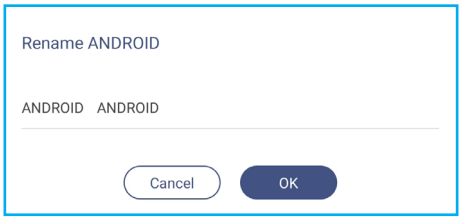
  a) To the right of the Custom section of the Boot Animation menu, click +.

  b) Select your preferred video from the local or external storage and click ***OK***. You can import 1 video at a time. The boot animation video must be in MP4 format and not larger than 8MB. After importing the video, click on it and then you can see it in the preview window.

  c)To delete the custom boot animation, click ✎. Then select the video and click **Delete**.



- Click ***Input Name*** to show a list of input sources you can rename. Click on the input you wish to change, then type a new custom name and confirm the new name by clicking ***OK*** at the prompt.

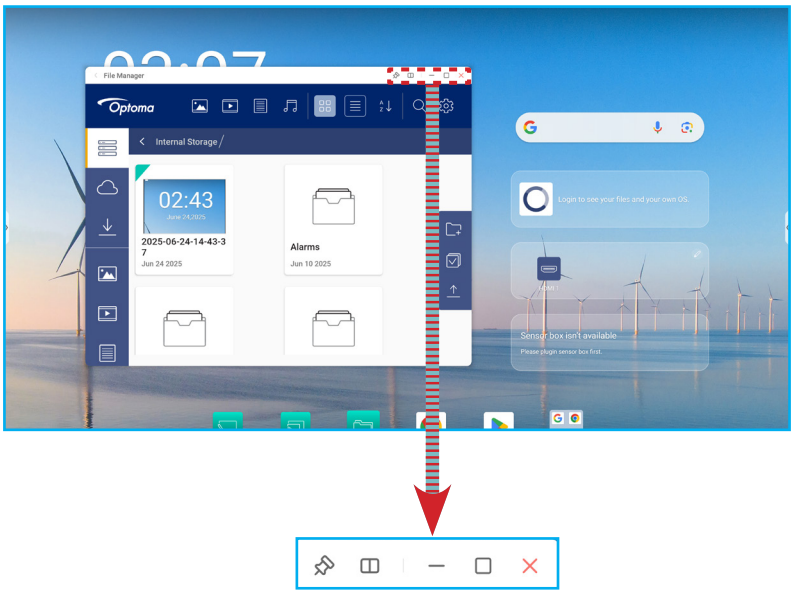


BASIC OPERATIONS

Personalizing the System (Continued)

- Click ***Multi-Window mode*** to enable displaying more than one app on the screen at the same time. Enabling Multi-Window mode will require a system reboot. Upon enabling this function, you will be prompted to reboot. Click ***Restart*** to save this change and reboot the OPS module.

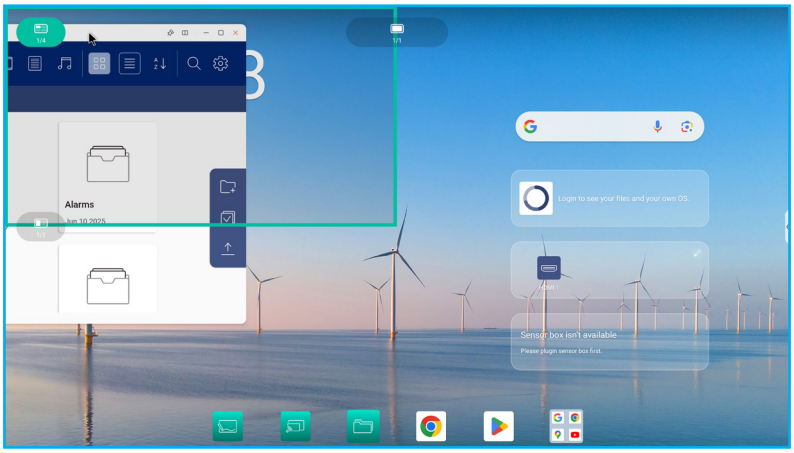
  Note: *Multi-window mode consumes more computing power and it will increase system loading times.*



To manage app windows in multi-window mode, do any of the following:

- Move the app window in any direction to change its placement on the screen.
- Click to pin the app window.
- Click and select where you want to place the app window and how much space you want it to take up on the screen. Options are 1:2 (half a screen) or 1:4 (quarter of the screen) .

Note: *If you move the app window towards the edges of the screen, then you will see green guides appear with instructions where you can place the window. Drag the app window over the guide where you want to place it.*



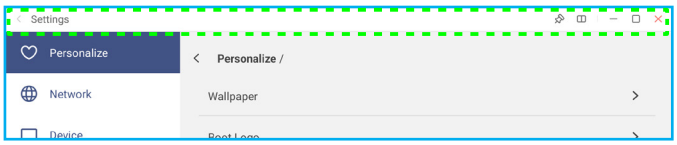
- Click to minimize the app window.
- Click or drag the app window towards the upper corner of the screen to view the app in full screen mode.
- In full screen mode, drag down from the upper edge of the screen to see the window control bar.
- Click to close the app.

BASIC OPERATIONS

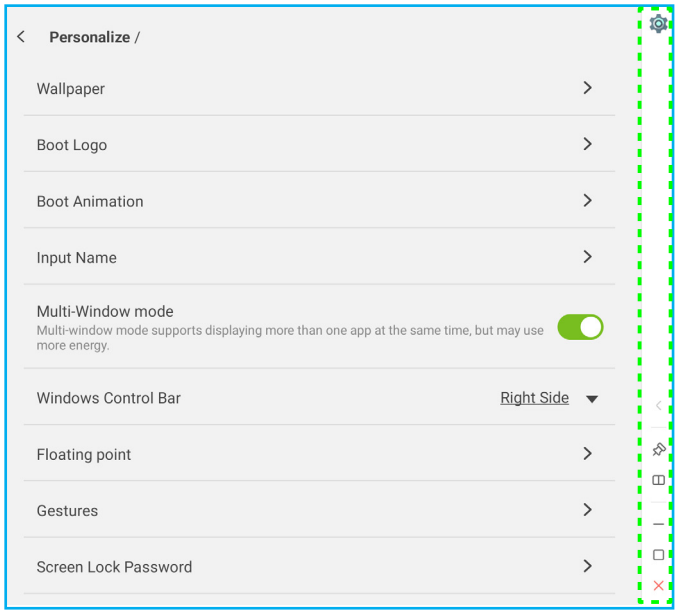
Personalizing the System (Continued)

- Click ***Windows Control Bar*** and select at which edge of the app window you want to display the Windows Control bar in the multi-window mode. The available options: Top Side, Left Side, or Right Side.
  For example:

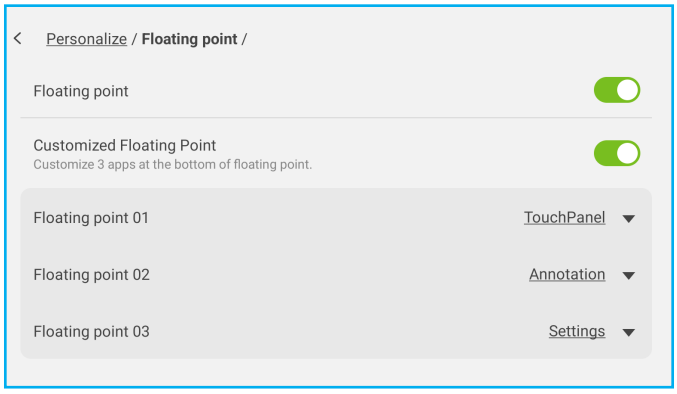
Top Side



Right Side



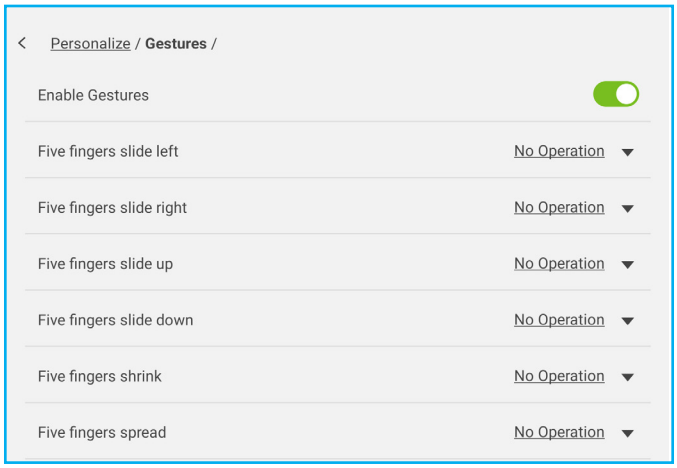
- Click ***Floating Point*** and enable or disable the floating point feature. If enabled, you can customize the apps that are displayed at the bottom of the floating point.



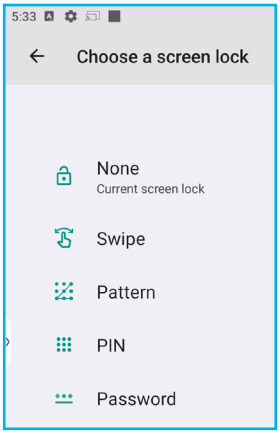
BASIC OPERATIONS

Personalizing the System (Continued)

- Click ***Gestures*** and enable the feature. Then you can assign functions to different gestures.



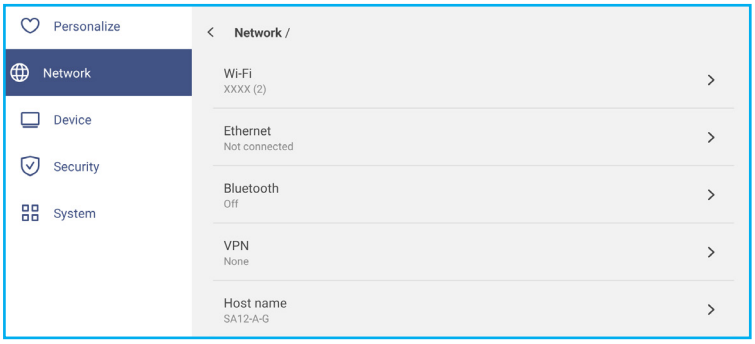
- Click ***Screen Lock Password*** and select the screen locking method. The available options are: Swipe, Pattern, PIN, and Password. Select None if you want to keep the screen unlocked.



BASIC OPERATIONS

Configuring Network Settings

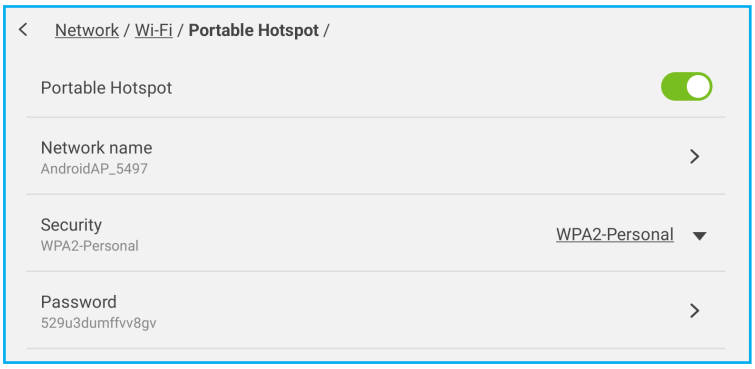
In the Settings menu, click to open the Network menu, then complete the following steps:



- Click ***Wi-Fi*** to connect the OPS module to a Wi-Fi network and view current connection status. Make sure the Wi-Fi function is enabled. In the Available network list, click on your preferred Wi-Fi network. Provide an access password if needed.

  Note: *If your preferred Wi-Fi network is not visible in the list, click to refresh the list. To enter the Wi-Fi network manually, click .*

  - Enable ***Portable hotspot*** feature to share the Wi-Fi network with other wireless devices. Modify the network name, set security, and access password if necessary.



Note:

- *For a secure connection, set the Wi-Fi encryption (Security field) as **WPA2-Personal**. Then enter the access password and click **OK**.*
- *Enabling Portable hotspot disconnects the OPS module from Wi-Fi. Ensure that the OPS module is connected to the Internet using a compatible ethernet cable and you have completed configuring the ethernet settings.*

- Click ***Ethernet*** to configure LAN settings and view the current connection status. In the IP settings section select the network type between static and DHCP. If you set the network type as ***Static*** then click and enter the connection settings, such as IP address, gateway, network prefix length, and more. Click ***OK*** to save the settings. Click ***Proxy Settings*** to configure network connection via proxy server.

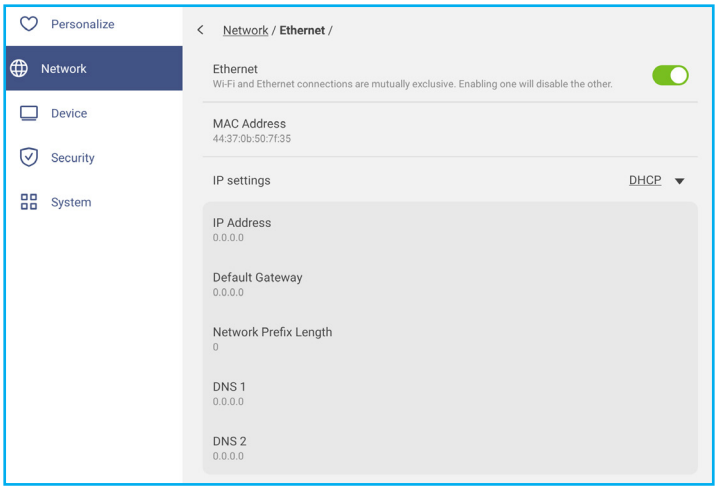
BASIC OPERATIONS

Configuring Network Settings (Continued)

- To reset the Ethernet settings, click ***Reset***.

  IMPORTANT! *To connect to a wired network, make sure the OPS module is connected using a compatible ethernet cable. For more information, refer to page 2712.*

  Note: *Wi-Fi and Ethernet connections are mutually exclusive. Enabling one will disable the other.*

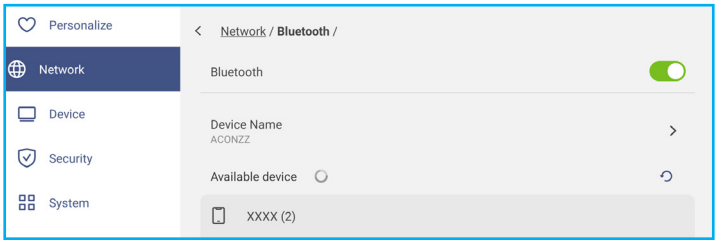


- Click ***Bluetooth*** to enable Bluetooth and connect to other nearby Bluetooth devices. This interactive display supports Bluetooth version 5.x (dependent upon wireless module/dongle used) and can connect, for example, to a Bluetooth keyboard, mouse, and speaker.

  Click the following:

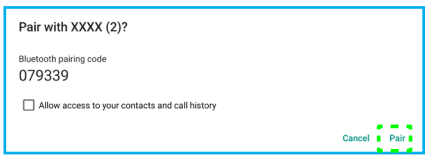
  - ***Device Name*** to enter a new device name. To confirm the modification, click ***OK*** at the prompt.

  - In the list under *Available device*, select the device you want to connect to.

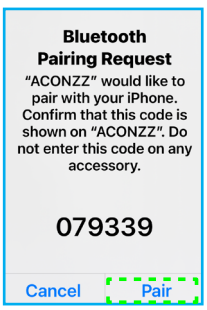


Make sure the pairing codes match on both devices and if they match, click ***Pair*** to confirm.

OPS Module



Portable Device



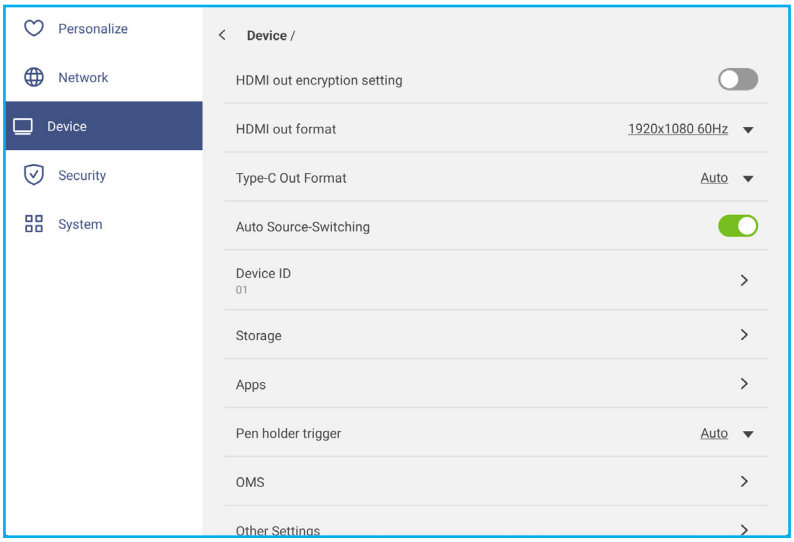
Note: *If the Bluetooth device is not visible in the list of available devices, make sure the device is nearby the OPS module and Bluetooth is enabled. Then click ↻ to refresh the list.*

- Click ***VPN*** to add a VPN profile.
- Click ***Hostname*** to rename the OPS module.

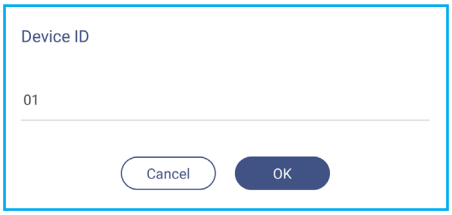
BASIC OPERATIONS

Configuring Device Settings

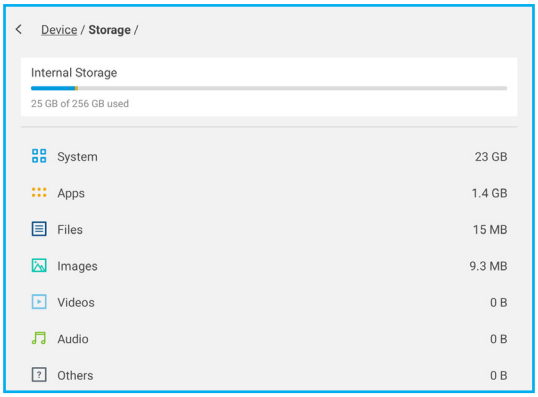
In the Settings menu, click to open the Device menu, then complete the following steps:



- Click ***HDMI out encryption setting*** to enable or disable encrypting HDMI out signal with HDCP.
  Note: *If the connected monitor does not support HDCP, disable HDMI out encryption function.*
- Click ***HDMI out format*** and select the format that can be output from the HDMI port.
- Click ***TypeC Out Format*** and select the USB type-C out format.
- Click ***Auto Source-Switching*** to enable or disable switching input sources automatically.
- Click ***Device ID*** to assign a new numerical ID to the OPS module. To confirm, click ***OK***.



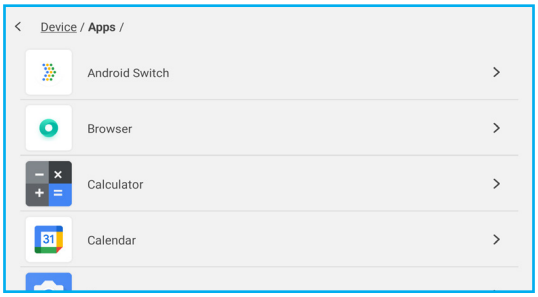
- Click ***Storage*** to view storage usage.



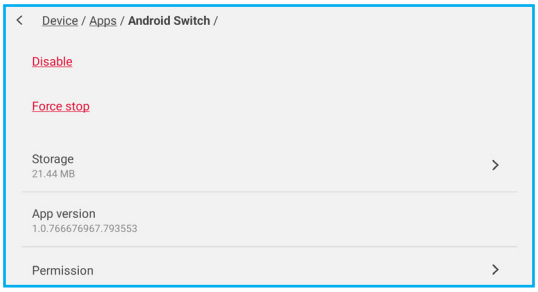
BASIC OPERATIONS

Configuring Device Settings (Continued)

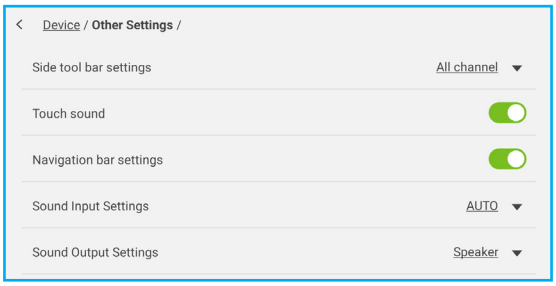
- Click ***Apps*** to view app information, disable app, clear app data and cache, and force stop apps.



Select an app in the list to disable it (click ***Disable***), force stop it (click ***Force stop***), view its storage, version, and set permissions.



- Click ***OMS*** to set up remote management settings. For more information, refer to the "**Optoma Management Suite**" section.
- Click ***Other Settings*** to configure **Side toolbar**, enable or disable touch sound, enable or disable the navigation bar settings, and sound input & output settings.



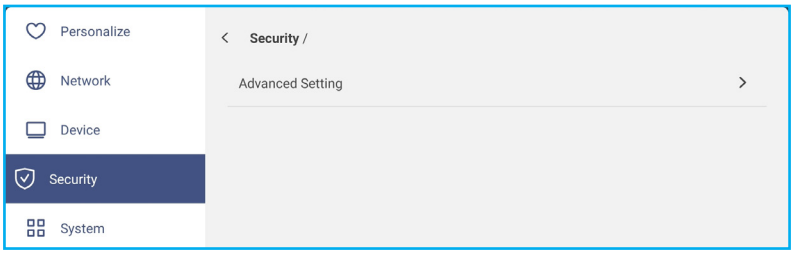
Click any of the following:

- ***Side toolbar settings*** to select when the toolbar is visible: All channel, Only Android, or Disable the **Side toolbar**.
- ***Touch Sound*** to enable or disable audio feedback when you click items on the screen.
- ***Navigation bar settings*** to enable or disable configuring the navigation bar setting.
- ***Sound Input Settings/Sound Output Settings*** to select the sound input and output sources respectively.

BASIC OPERATIONS

Configuring Security Settings

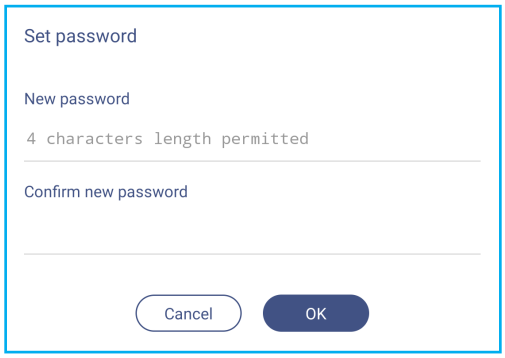
In the Settings menu, click to open the Security menu, then complete the following steps:



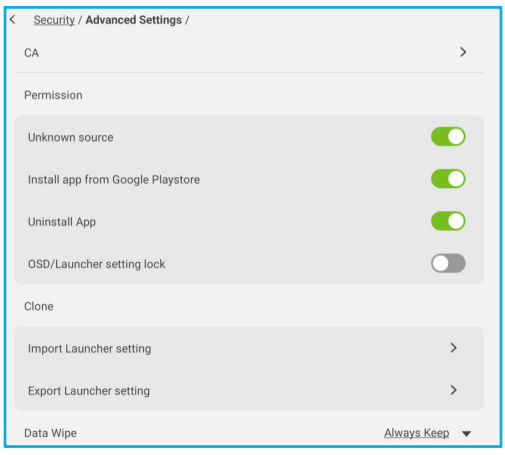
- Click ***Advanced Setting*** to enter the Advanced Settings menu (password required). If no password has been set, you will be prompted to create a password for the Advanced Settings menu. Do the following:

  Note: *The Dealer Menu advanced settings can be also accessed with the Advanced Setting password set in this menu.*

  a) Enter the Advanced Setting password twice at the prompt to access the advanced settings and then click ***OK*** to confirm.



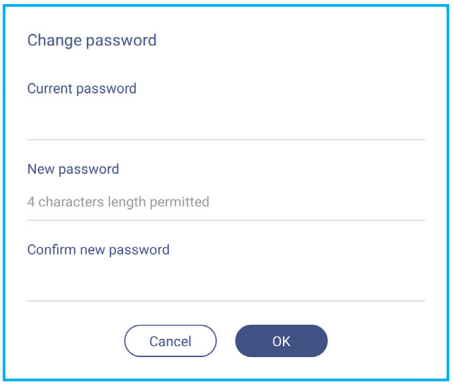
  b) Select any of the following items:



BASIC OPERATIONS

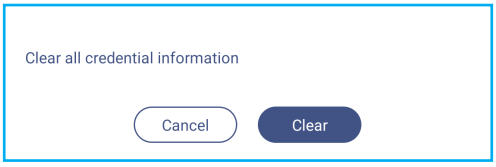
Configuring Security Settings (Continued)

- ***Change password***: Enter the current password and then the new password twice. Click ***OK*** to confirm.

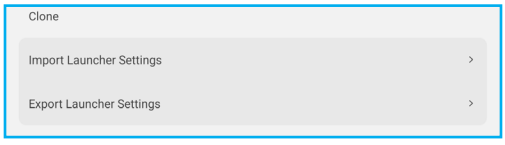


- ***CA***: View and modify trusted CA certificates, user stored credentials, and more.
  - Click ***Trusted certificates*** to view and modify trusted CA certificates.
  - Click ***User credentials*** to view and modify user stored credentials.
  - Click ***Install from storage*** to install credentials from the storage.
  - Click ***Clear all credentials*** to remove all user credentials.

    Click ***OK*** at the prompt to confirm.



- ***Permissions***: Configure permissions:
  - Click ***Unknown source*** to enable or disable installing third party software from an unknown source.
  - Click ***Install app from Google Playstore*** to enable or disable installing apps from Google Playstore.
  - Click ***Uninstall App*** to enable or disable uninstalling third party software.
  - Click ***OSD/Launcher setting lock*** to lock or unlock the OSD/launcher settings.
- ***Clone***: Import or export launcher settings:



  - Click ***Import Launcher setting*** to import the launcher settings from internal or external storage.
  - Click ***Export Launcher setting*** to export the launcher settings to internal or external storage.

BASIC OPERATIONS

Configuring Security Settings (Continued)

Note: *OPS module supports cloning selected functions in the **Settings** menu. OSD menu functions cannot be cloned. You can clone the following functions:*

Menu Items	Functions
Personalize ⇒ Wallpaper	• Type (Pictures / Dynamic) • Change picture
Personalize ⇒ Boot Logo	All functions
Personalize ⇒ Boot Animation	All functions
Personalize ⇒ Input Name	All input sources
Personalize ⇒ Multi-Window mode	All functions
Device ⇒ HDMI out format	All functions
Device ⇒ Other Settings	• Side tool bar settings • Touch sound
Security ⇒ Advanced Settings	• Password setting • Permissions ⇒ Unknown source • Permissions ⇒ Install app from Google Playstore • Permissions ⇒ Uninstall App • Permissions ⇒ OSD/Launcher settings lock
System ⇒ Date & Time	All functions
System ⇒ Language	All functions
System ⇒ Startup and Shutdown	All functions
System ⇒ Power	All functions
System ⇒ HDMI CEC	All functions
System ⇒ Power Mode Standby	All functions
System ⇒ Update	All functions

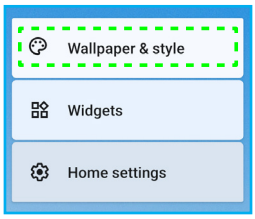
- ***Data Wipe***: Select to automate the removal of any user-created data that has been saved to internal storage. The available options are: Always Keep, Delete After One Day, or Delete After One Hour.

BASIC OPERATIONS

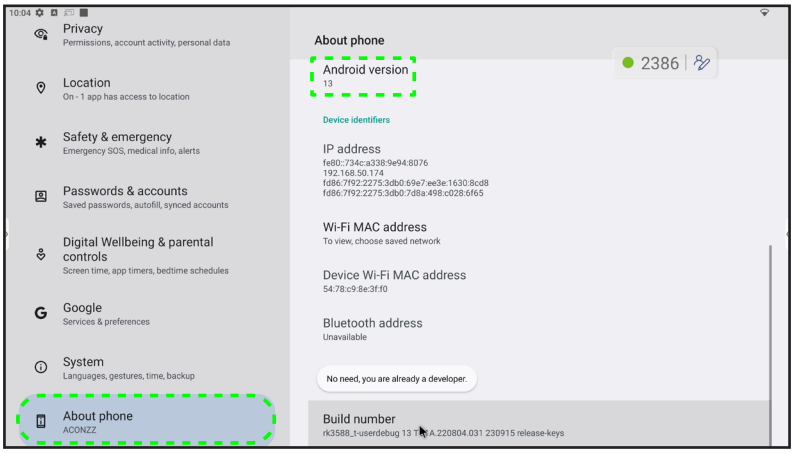
Configuring Security Settings (Continued)

Enabling or Disabling USB Wi-Fi/USB Disk

a) Click and hold on the Home screen. Then, select ***Wallpaper & style*** at the prompt to access the native Android Settings menu.



b) Click ***About phone*** ⇒ ***Android version***.



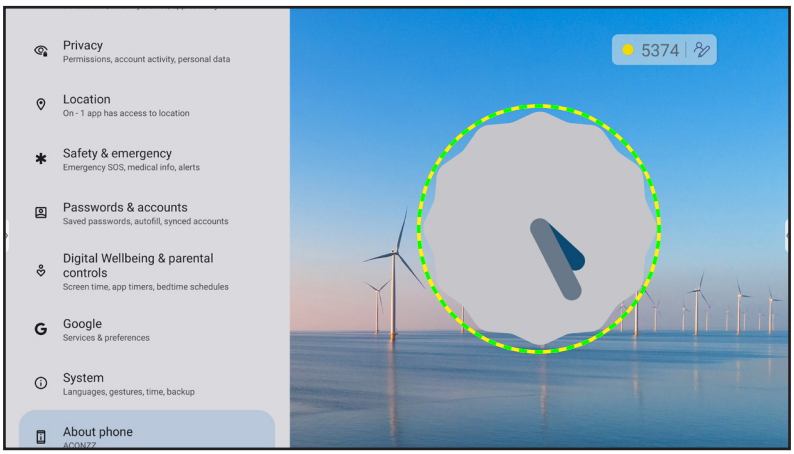
c) Click on ***Android version*** text for 5 times.



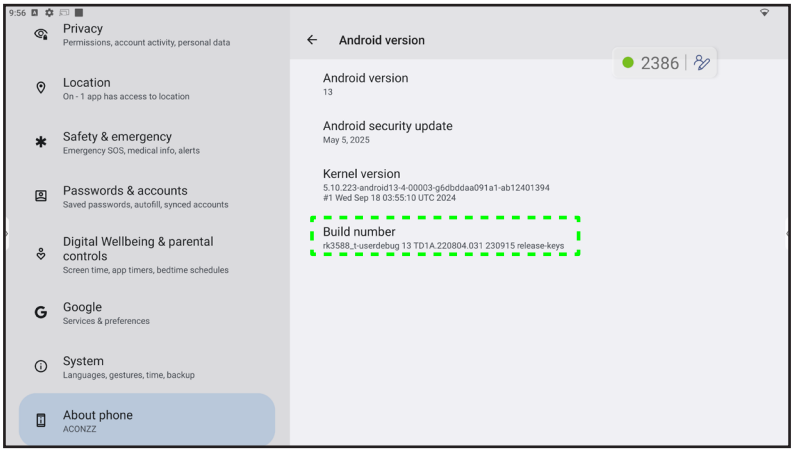
BASIC OPERATIONS

Configuring Security Settings (Continued)

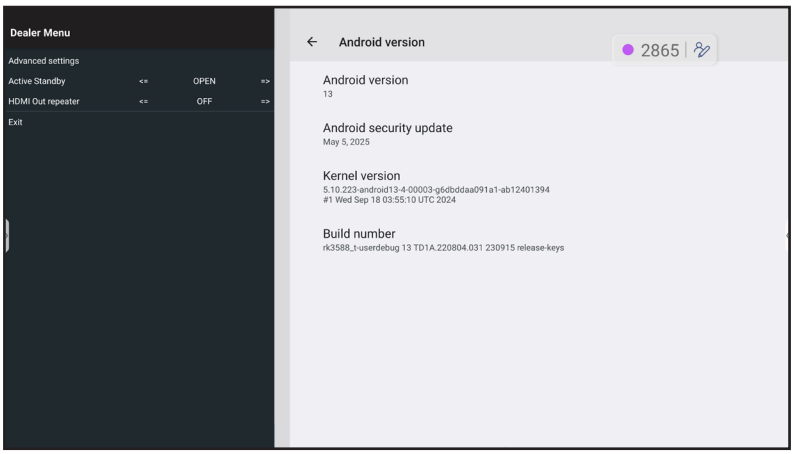
d) Press the right mouse button once on the clock icon.



e) Click on ***Build number*** text for 5 times.



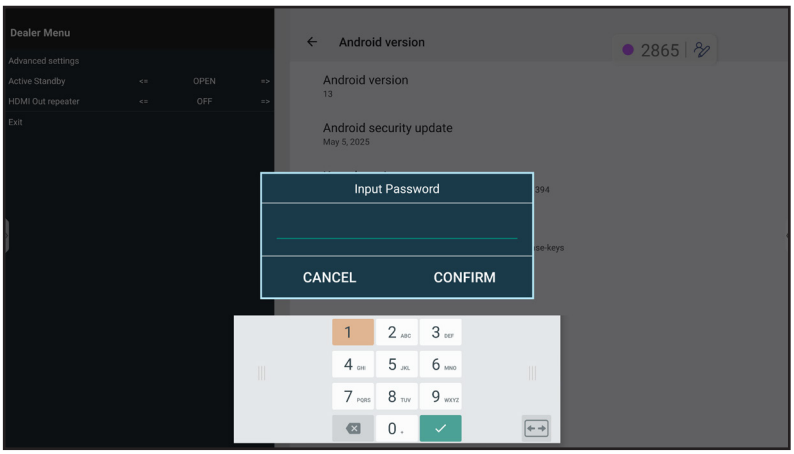
The Dealer Menu opens.



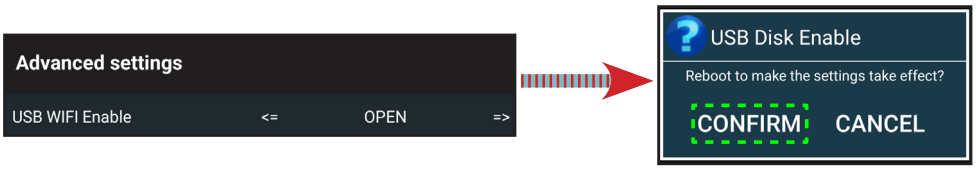
BASIC OPERATIONS

Configuring Security Settings (Continued)

f) Click ***Advanced settings***, then enter the Advanced settings password at the prompt and click ***CONFIRM***.



g) Click <= or => next to USB WIFI Enable and select **OFF**. Then select ***CONFIRM*** to disable USB WIFI. Once you click ***CONFIRM***, your device will reboot and changes will take effect. Repeat the step to enable USB WIFI.



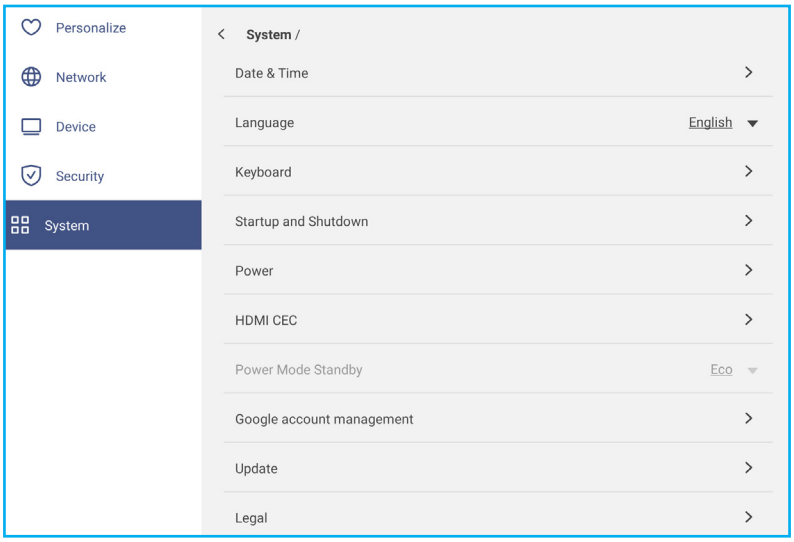
Note: *The modification will take effect immediately.*

d) Click ***Exit*** to close the Dealer Menu.

BASIC OPERATIONS

Configuring System Settings

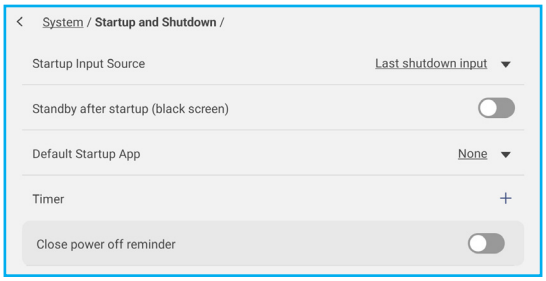
In the Settings menu, click to open the System menu, then complete the following steps:



- Click ***Date and Time*** to configure date and time related settings. Click any of the following:



  - ***Auto Date and Time*** to enable or disable updating date and time automatically.
    Note: *Auto Date and Time function requires network connection.*
  - ***Time Zone*** to select/change the time zone for your area.
  - ***Use 24-hour format (13:00)*** to enable or disable displaying time in 24-hour format.
- Click ***Language*** to select one of the available language options.
- Click ***Keyboard*** to view and manage keyboards.
- Click ***Startup and Shutdown*** to configure settings related to the Startup and Shutdown of the OPS module. Click any of the following:



  - ***Startup Input Source***: Select from one of the available options to set as the default input-source to use each time the OPS module boots up: Last shutdown input, ANDROID, or HDMI 1.

BASIC OPERATIONS

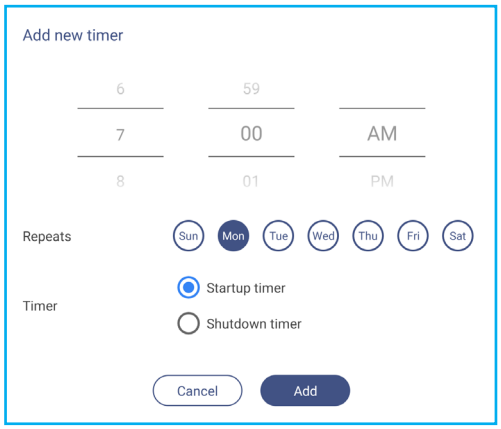
Configuring System Settings (Continued)

- ***Standby after startup (black screen)***: When enabled, the OPS module will automatically go into Standby mode immediately after booting up.
- ***Default Startup app*** to select an available app to automatically launch each time the OPS module boots up.
- ***Timers*** ⇒ ＋ to set a startup and shutdown timer. To create a schedule, do the following:

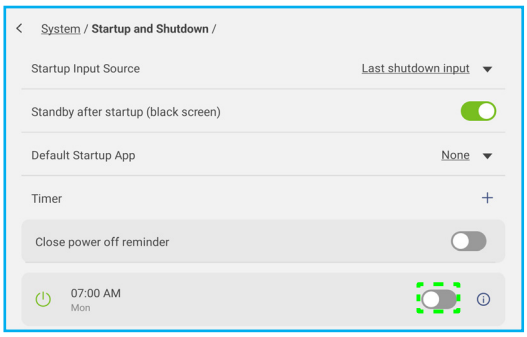
  a) To enable startup timer and/or shutdown timer, select the radio button next to ***Startup timer*** and ***Shutdown timer***.

  b) Set the time and select the day(s) when you want the OPS module to follow this startup or shutdown schedule.

  c) Click ***Add*** to save the new startup or shutdown schedule.



  d) Be sure to enable or disable the new schedule in the Timers menu.



Note:

- *Click ⓘ to modify or remove the schedule.*
- *You can set up to 3 schedules.*

- ***Close power off reminder*** to enable or disable automatically closing the power off reminder when the OPS module is scheduled to shut down.

- Click ***Power*** to configure power settings. Click any of the following:



BASIC OPERATIONS

Configuring System Settings (Continued)

- ***Signal Power On*** to enable or disable starting up the OPS module when an input signal is detected.
- ***Direct Power On*** to enable or disable starting up the OPS module when a power source is detected.

  Note: *Direct power on feature aids installations that rely on power-on timers.*
- ***Auto Power Off*** to select one of the available time intervals in minutes to automatically power off the OPS module when there is no input source found: Off (function is disabled), 1 mins, 3 mins, 5 mins, 10 mins, 15 mins, 20 mins, 25 mins, 30 mins, 35 mins, 40 mins, 45 mins, 50 mins, 55 mins, 60 mins, 120 mins, or 240 mins.
- ***Wake on LAN*** to enable or disable remotely starting up the OPS module over LAN.

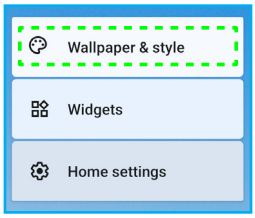
  Note: *Wake on LAN will not work and will be grayed-out when Power Mode (Standby) is set to* ***Active****.*
- ***Power button behavior*** to select the power button behavior. The available options are: Google (click and hold the power button to talk to Google Assistant) or Optoma (shut down the OPS module).

• Click ***HDMI CEC*** to enable or disable any of the available options: Display on then player on, Display off then player off, Player on then display on, or Player off then display off.

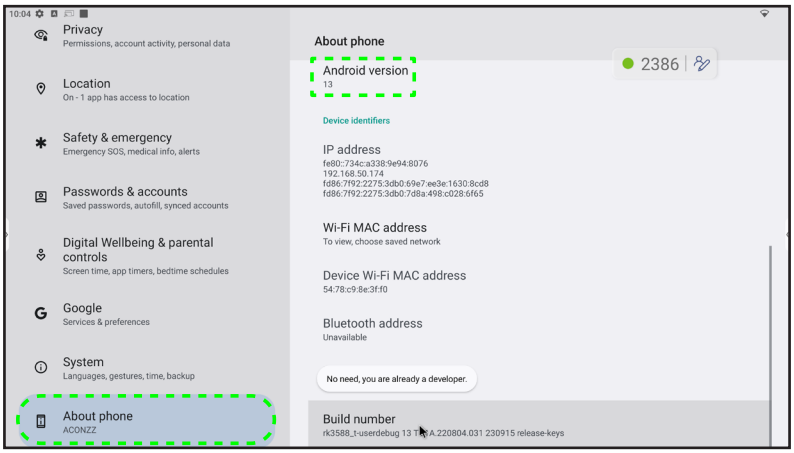
• Click ***Power Mode Standby*** to choose between available Standby modes: Eco or Active.

Note: *To hide the "Active" option in the Power Mode Standby menu, do the following:*

a) Click and hold on the Home screen. Then, select ***Wallpaper & style*** at the prompt to access the native Android Settings menu.



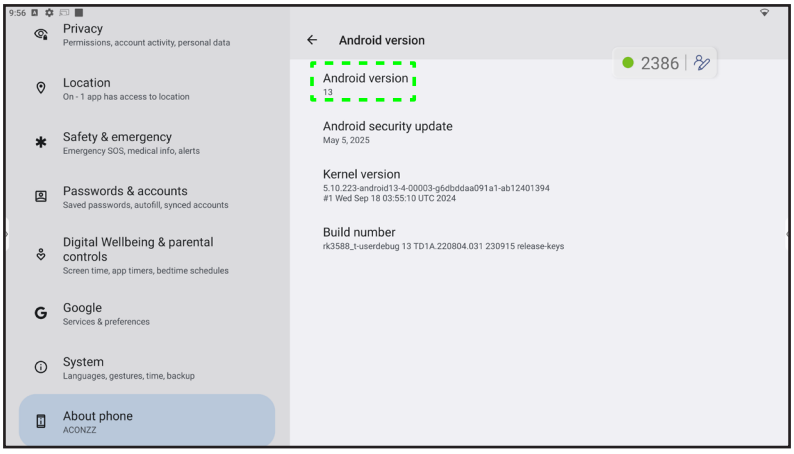
b) Click ***About phone*** ⇒ ***Android version***.



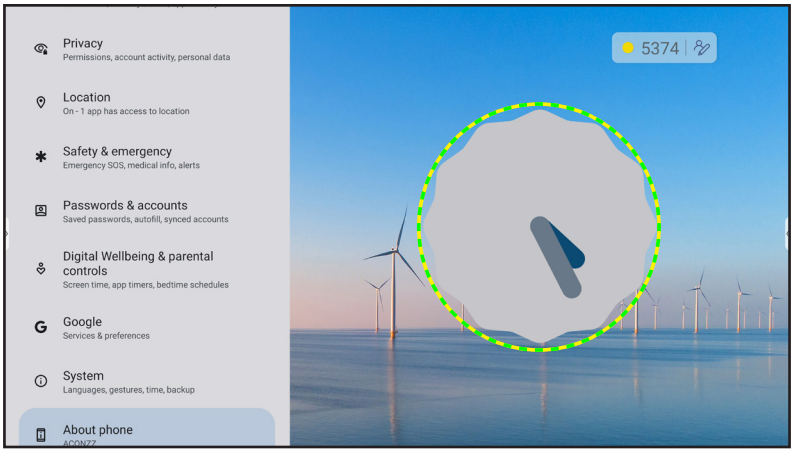
BASIC OPERATIONS

Configuring System Settings (Continued)

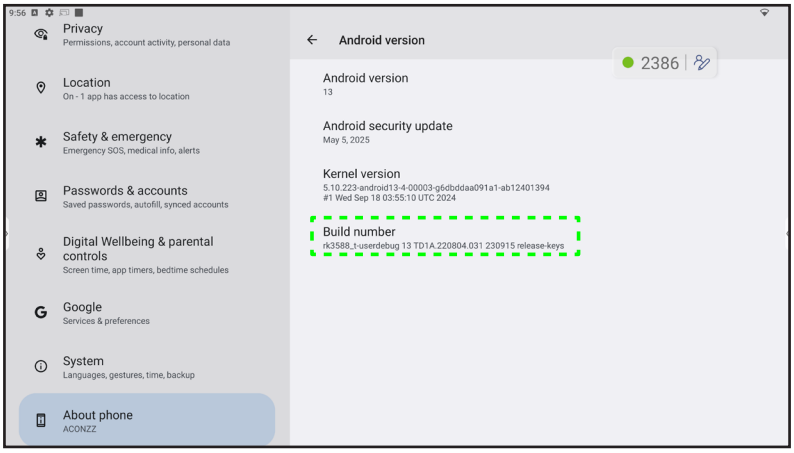
c) Click on ***Android version*** text for 5 times.



d) Press the right mouse button once on the clock icon.



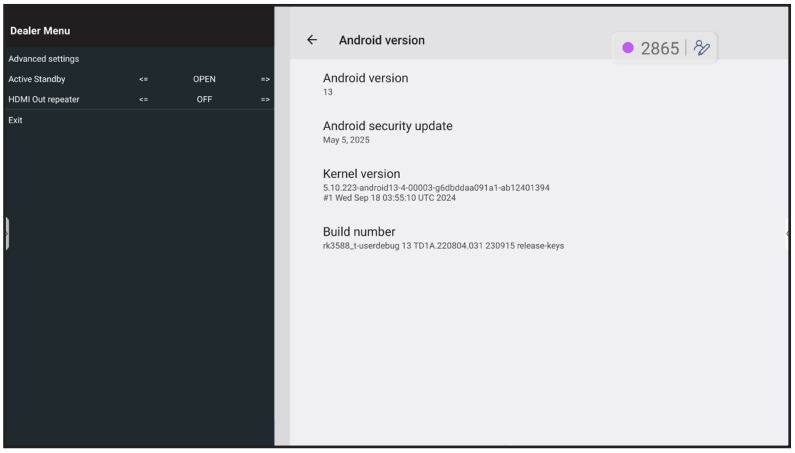
e) Click on ***Build number*** text for 5 times.



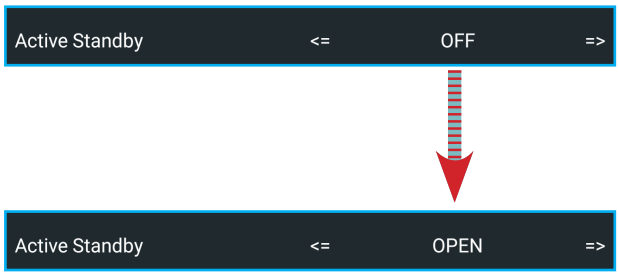
BASIC OPERATIONS

Configuring System Settings (Continued)

The Dealer Menu opens.



f) Click <= or => next to Active Standby to change the Power Mode Standby option. The option changes from "OFF" to "OPEN".



g) Click ***Exit*** to close the Dealer Menu.

BASIC OPERATIONS

Configuring System Settings (Continued)

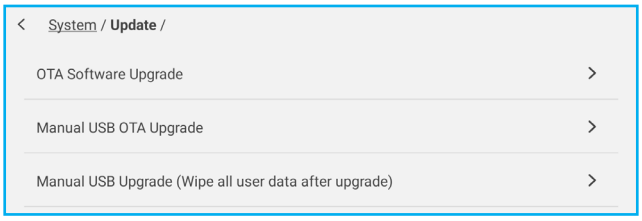
The System ⇒ Power Mode Standby menu becomes available.



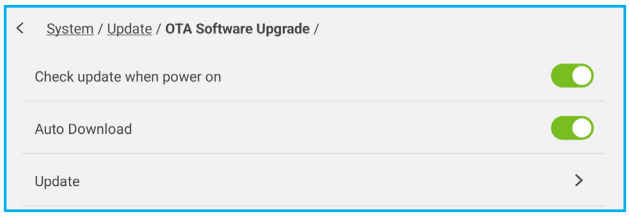
Note:

- ***OMS*** *and LAN control remote power on functions will only work when Power Mode Standby is set to* ***Active****.*
- *Active Standby mode consumes higher power since the system only turns off the backlight and the mainboard is still actively waiting for a power on command from LAN and* ***OMS****. If you don't have a need for remote power-on, we suggest using* ***Eco*** *Standby mode to save more power.*
- *It is also highly recommended that you switch back to* ***Eco*** *Standby mode and turn off the OPS module for a period of time when Active Standby mode is not needed. This helps the OPS module system to release memory and CPU loading.*

- Click ***Google account management*** to configure your Google account settings and access other Google/ Android settings from the Google settings menus.
- Click ***Update*** to configure upgrading options. Click any of the following:



- ***OTA (Over-The-Air) Software Upgrade*** to enable or disable upgrading software over Internet. Enable ***Check update when power on*** and ***Auto download*** to check for firmware updates and download the updates (if available) every time the OPS module is powered on and connected to the Internet. If the ***Check update when power on*** option is disabled, the system will not check for firmware upgrades automatically.



To update the system manually, click ***Upgrade*** and follow the onscreen instructions to complete the upgrade process.

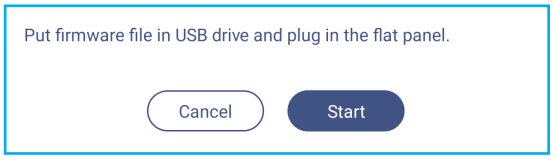
Note: *Upgrading software over Internet requires a stable network connection.*

- ***Manual USB OTA Upgrade*** to update the system from a USB flash disk.
- ***Manual USB Upgrade (wipe all user data after upgrade)*** to update the system from a USB flash disk by removing all user data after the upgrade is complete.

BASIC OPERATIONS

Configuring System Settings (Continued)

Note: *To proceed with upgrading software, save the upgrade file to the USB flash disk first, then connect the disk to a USB type-A port on the OPS module. Open* ***Settings*** ⇒ ***System*** ⇒ ***Update*** ⇒ ***Manual USB OTA Upgrade*** *or* ***Manual USB Upgrade(wipe all user data after upgrade)*** *and click* ***Start*** *when prompted.*

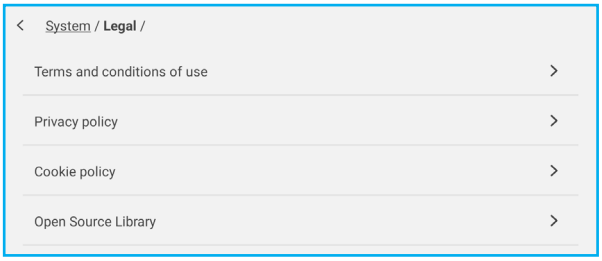


Note: *If you upgrade OPS module's firmware from a USB drive, uncompress the upgrade file first and then copy the uncompressed file(s) to the USB root directory. Make sure the USB flash disk is formatted as NTFS or exFAT.*

IMPORTANT!

- *During the update process, either OTA or from a USB drive, DO NOT power off the OPS module and DO NOT remove the USB module/dongle from the OPS module. Doing so will damage the system.*

- Click ***Legal*** to view Terms and conditions of use, Privacy Policy, Cookie Policy, and Open Source and Third party software license.

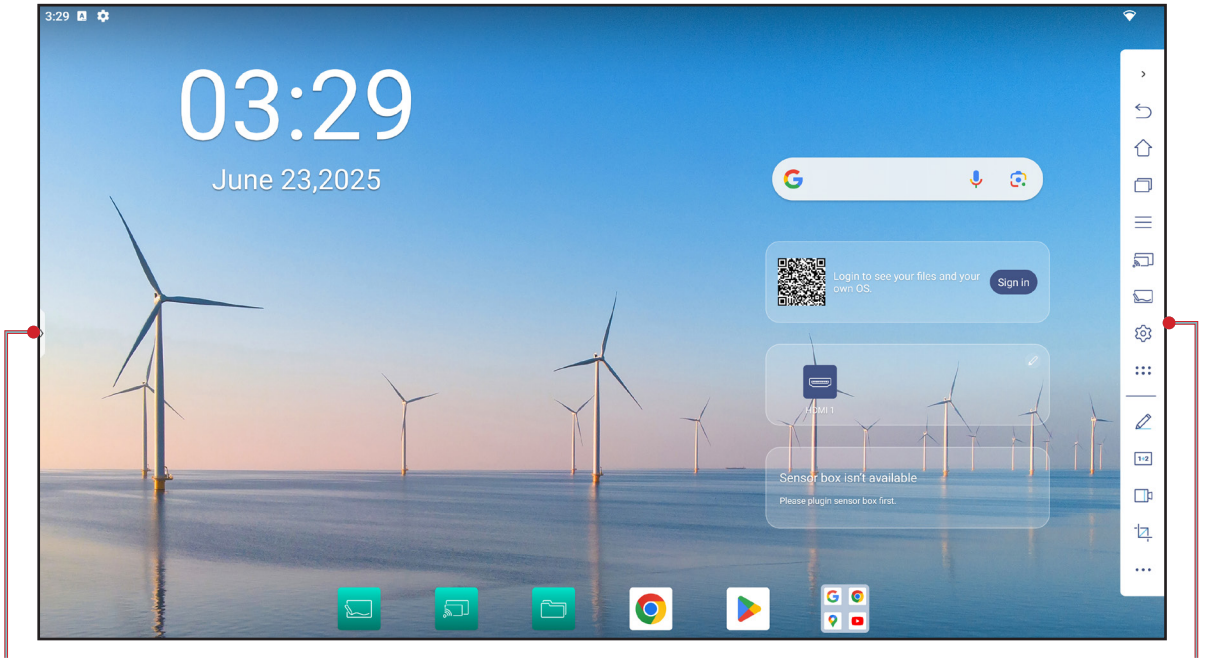


BASIC OPERATIONS

Side Toolbar

Click **>** or **<** on the left or right side of the screen to open the **Side toolbar**.

Note: *Drag **>** or **<** up or down on the screen to relocate it.*



Shortcut to the Side toolbar

Side toolbar

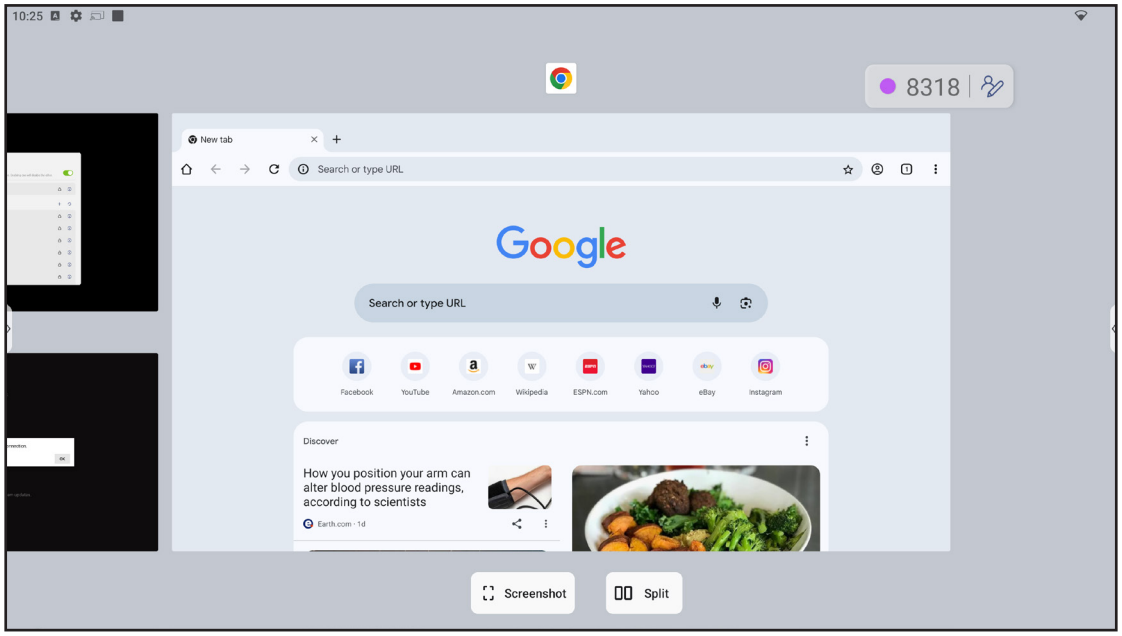
Click the icon on the **Side toolbar**:

- to return to the **previous** screen.
- to return to the **Home** screen.
- to view **recent** or **open** tasks and apps. For more information, refer to “**Viewing Recent Tasks**” on page *49*.
- to view the **OSD menu**. For more information, refer to “**OSD Menu**” on page *17*.
- to open **Display Share**. For more information, refer to the “**Display Share**” section.
- to open **Whiteboard**. For more information, refer to the “**Whiteboard**” section.
- to open the **Settings** menu.
- to view and access **all apps**.
- to open the **annotation** app. For more information, refer to “Annotation” on page 50.
- to open **Airshare**. For more information, refer to “**Airshare**” section.
- to open the **screen recording** tool. For more information, refer to page *19*.
- to open the **screen capture** tool. Use this tool to capture the screen image and save it to the storage device or insert it into the whiteboard session. For more information, refer to page *56*.
- To open more tools, such as **Timer**, **Freeze**, **Stopwatch**, **Spotlight**, **ScreenLock**, **PIP**, **DisplayCenter**, or **Calculator**, click • • •.

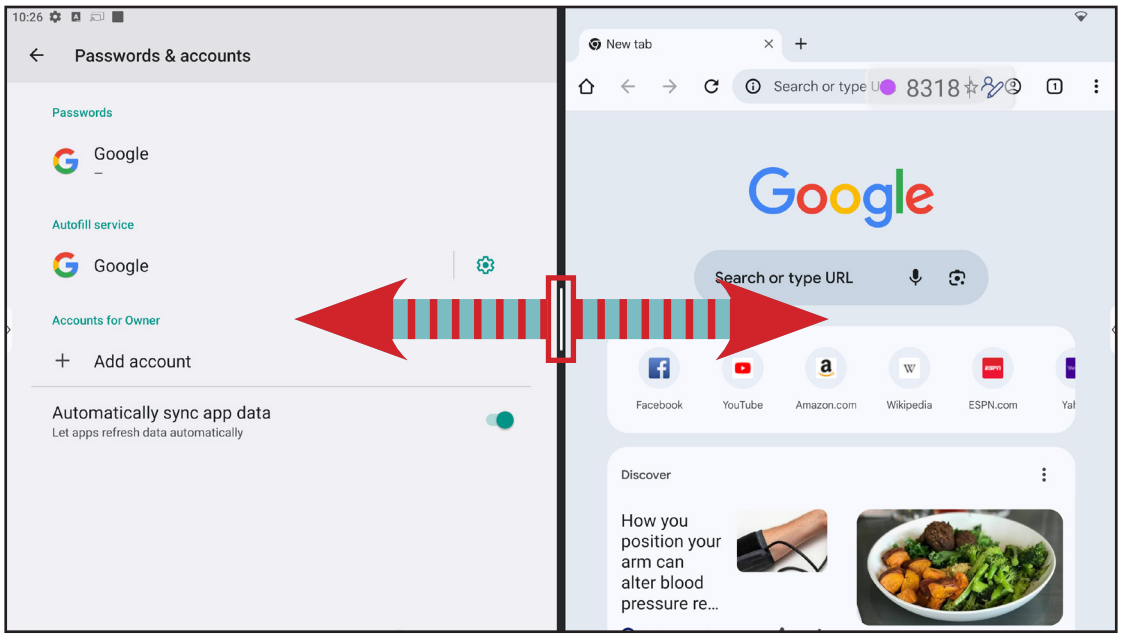
BASIC OPERATIONS

Viewing Recent Tasks

Click **>** or **<** ⇒ to view and manage all opened apps.



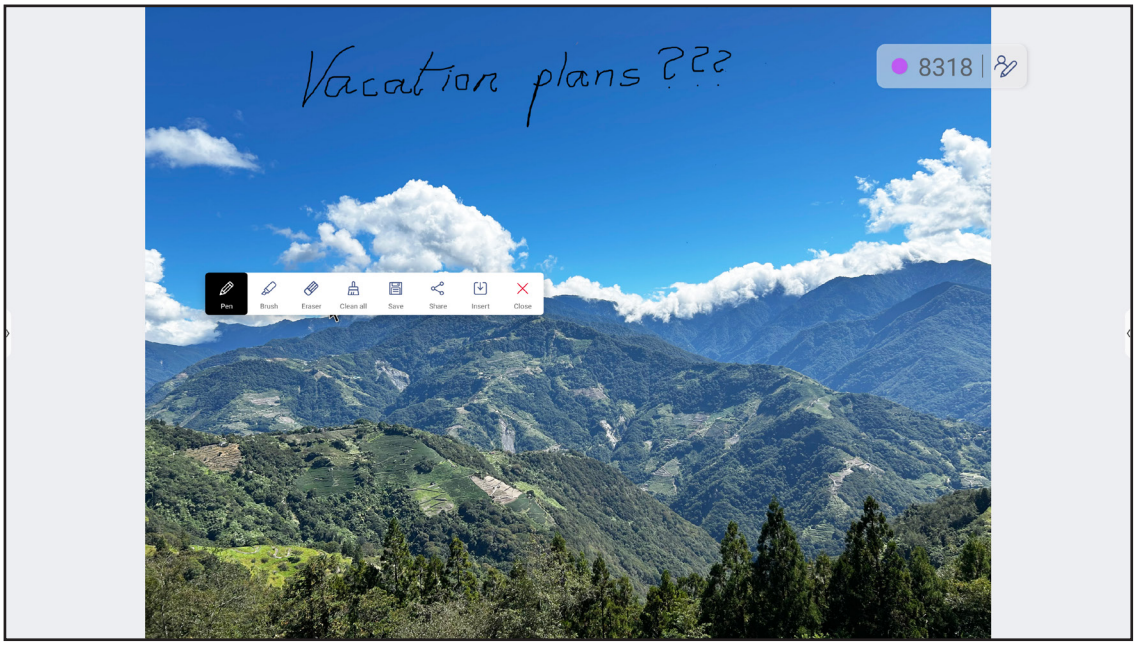
- Click on the app you want to launch.
- To close the app, drag the app window towards the upper edge.
- To clear the list, click ***Clear all***.
- Click ***Screenshot*** to capture the screen image.
- Click ***Split*** to view two apps in a split screen. Select one app first, next click ***Split***, and select the second app. To exit the split screen mode, click on the center line of the apps and drag it to the left edge of the screen to open the right side app in a full screen or drag to the right side of the screen to open the left side app in a full screen.



BASIC OPERATIONS

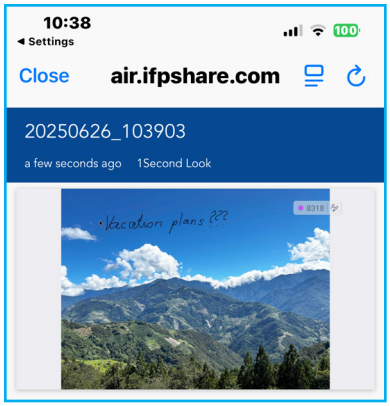
Annotation

Click **>** ⇒ to open the annotation app.



In this mode, you can do the following:

- Click to write and draw on the screen.
  Note: *You can change the pen color by clicking and selecting a new color.*
- Click to highlight the item on the screen.
  Note: *You can change the highlighter color by clicking and selecting a new color.*
- Click to delete part of the annotation.
- Click to erase all annotations on the screen.
- To capture a screenshot of the entire screen, click .
- To share the annotation to other wireless devices, click . Make sure your wireless device is connected to the same Wi-Fi network as the OPS module and then scan the QR code with your wireless device.

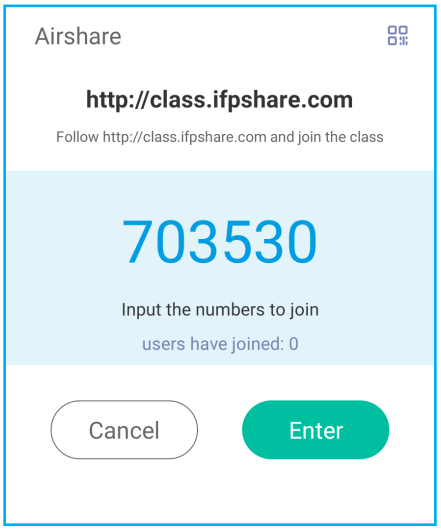


- Insert the annotation to the whiteboard session, click .
- To exit the annotation mode, click .
-

BASIC OPERATIONS

Airshare

Click **>** ⇒ 1+2 to open **Airshare**. The online classroom access code and URL will be displayed on the screen.



- To display the connection QR code, click .

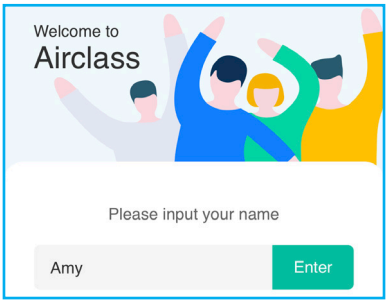


To join the virtual classroom remotely, complete the following steps:

1. Connect the OPS module to an available network.
2. On your mobile device, enable Wi-Fi function.

   IMPORTANT! *Make sure you have access to the Internet throughout the entire online session.*

3. Open the classroom URL in a web browser and enter the access code or scan the access QR code. Then enter your name and click ***Enter*** to join the class.



4. On the OPS module, click ***Enter*** to start the class session.

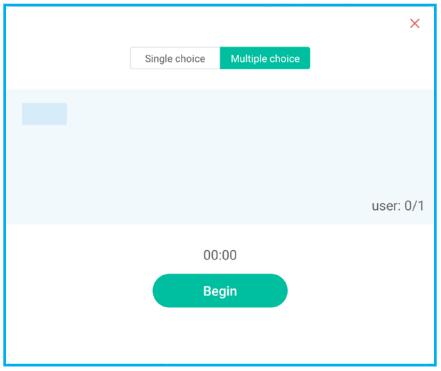
BASIC OPERATIONS

Airshare (Continued)

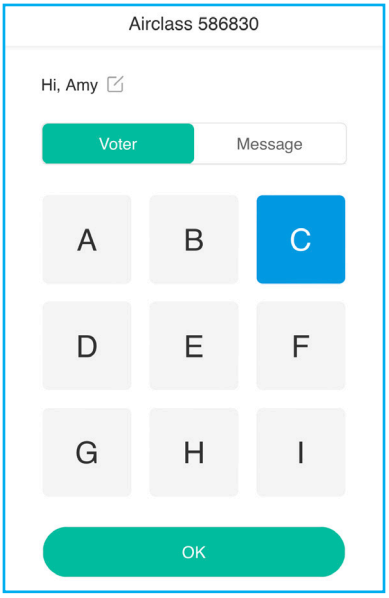
Click any of the following on the Classroom Share screen:

a. Voter

1. Click ***Voter*** to start the voting activity.
2. Select ***Single choice*** or ***Multiple choice*** to define the answer type.
3. Click ***Begin*** to start and allow participants to answer the question.



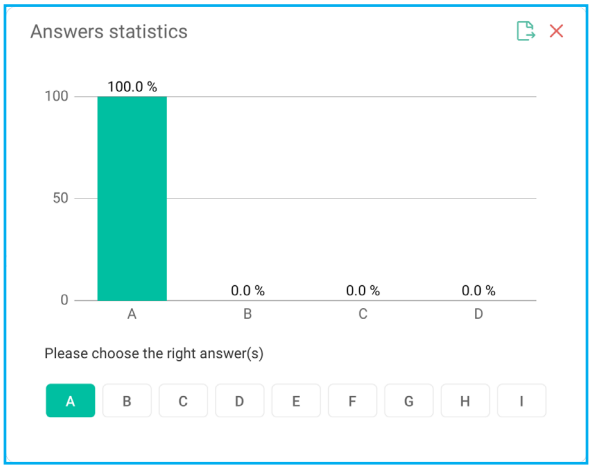
4. Participants can respond by selecting the answer on the mobile device screen and clicking ***OK***.



BASIC OPERATIONS

Airshare (Continued)

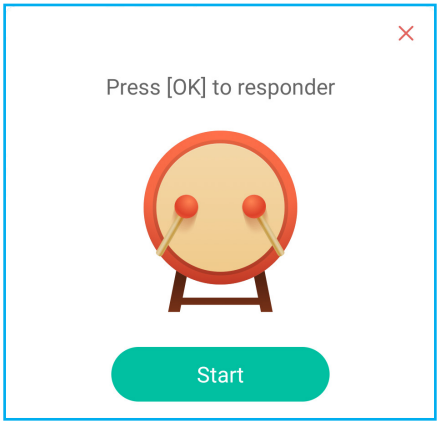
5. To close the answering session, click ***Finish***. The Answer statistics will be displayed on the screen.
6. Click the right answer(s) on the statistics screen.



- To export the voting result, click on the Airshare screen. The result is saved as XLS file to the internal storage folder.
- Click to close the Answer statistics page.

b. Responder

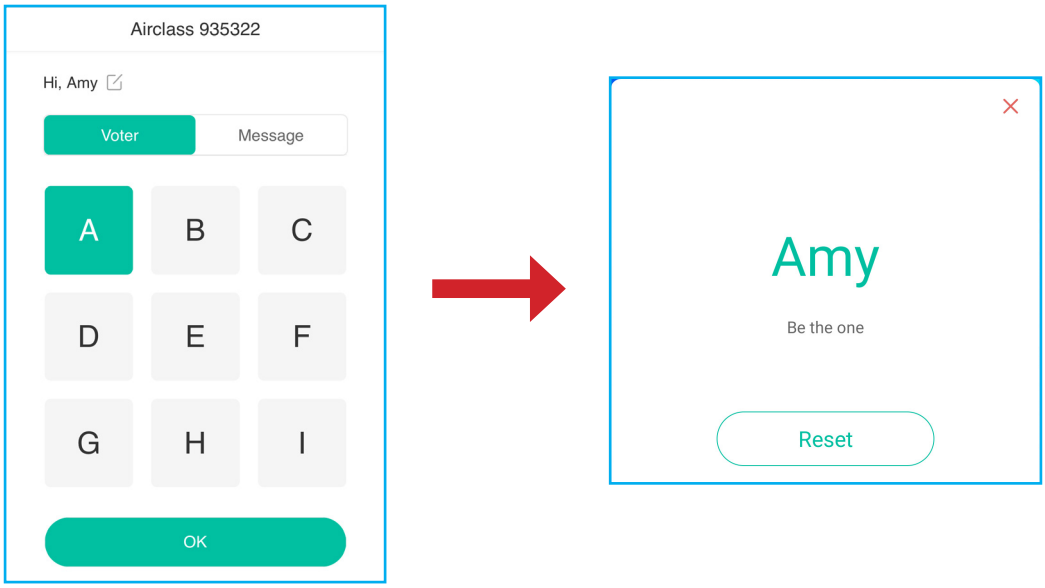
1. Click to enter the Responder mode. Then click ***Start*** to start the answering mode.



BASIC OPERATIONS

Airshare (Continued)

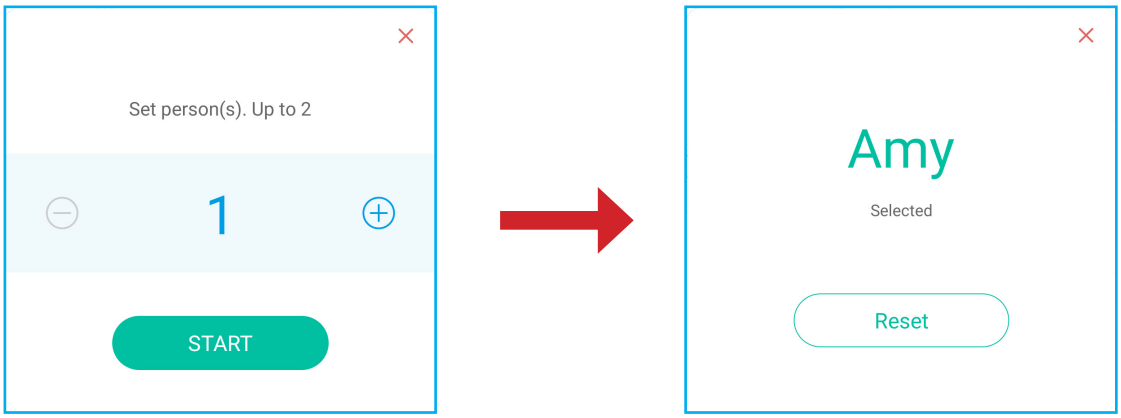
2. When the function is activated, the person who clicks ***OK*** first will get the right to answer.
For example, if Amy selects the answer and clicks ***OK*** first, then she will get the right to answer the question.
   - Click ***Reset*** to start the answering mode again.



c. Selector

Click to enter the selector mode. Select the number of person(s) whom will be selected. Then click ***START***. The result is displayed on the screen.

- Click ***Reset*** to select again.

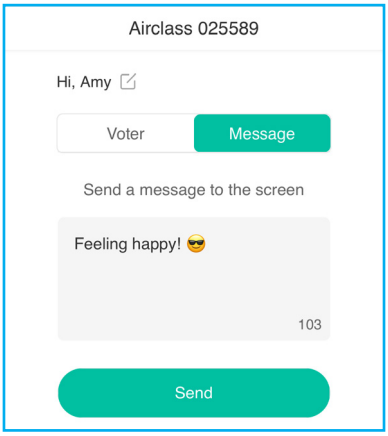


BASIC OPERATIONS

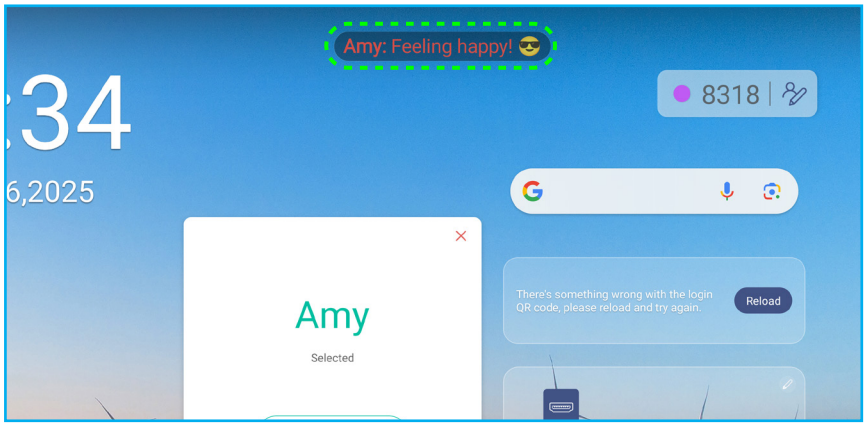
Airshare (Continued)

d. Message

1. Make sure the message function is enabled ⇒ .
2. On the mobile device, click ***Message*** to switch to the Message screen, then enter your message in the comment text box and click ***Send***.



The broadcast message will appear on the screen.



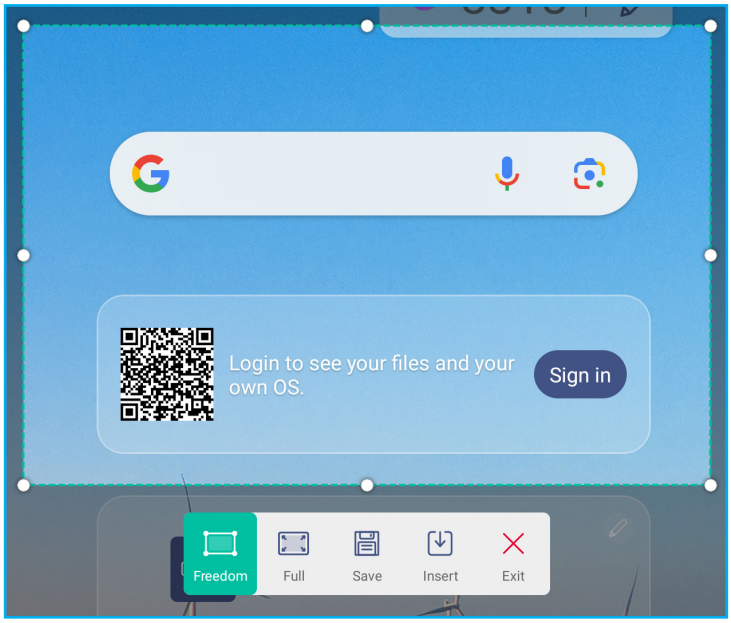
Note:

- *Click to display the class access code, URL, QR code and allow more participants to join the class.*
- *Click to export the result.*
- *Click to exit **Airshare**. Confirm **Exit** at the prompt. All classroom users will be logged off.*

BASIC OPERATIONS

Screen Capture Tool

Click **>** ⇒ to open the screen capture tool.



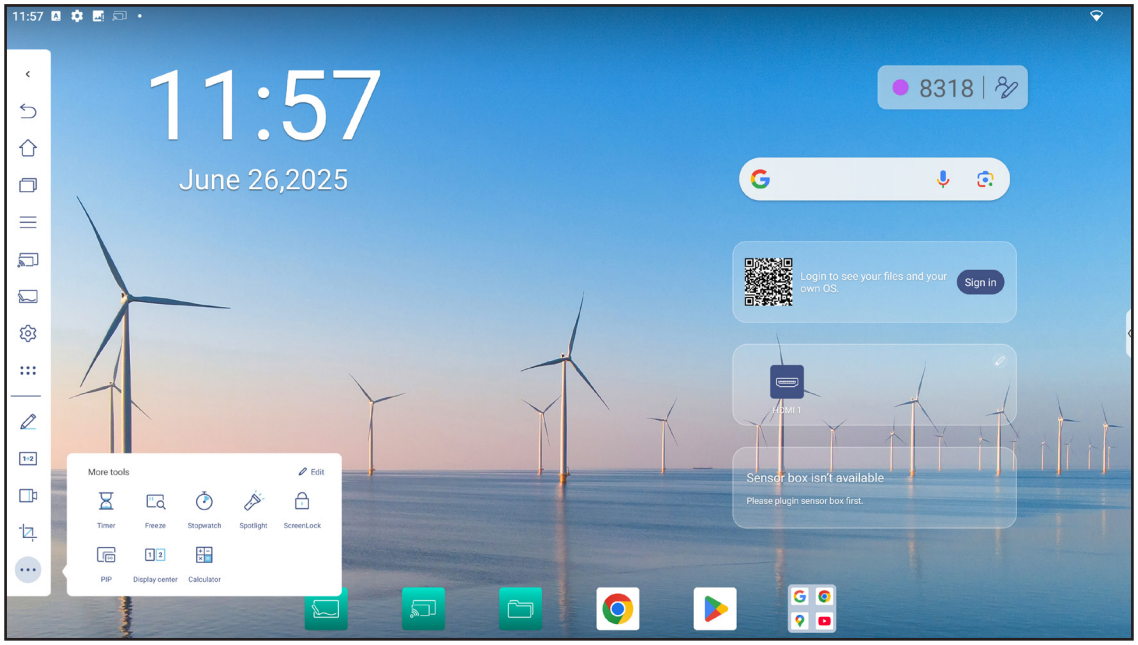
To capture the screen, do the following:

1. Click either or to manually select the area or to capture the entire screen respectively.
2. Click to save the screenshot or click to insert the screenshot directly to the whiteboard session.
3. Click to exit the tool.

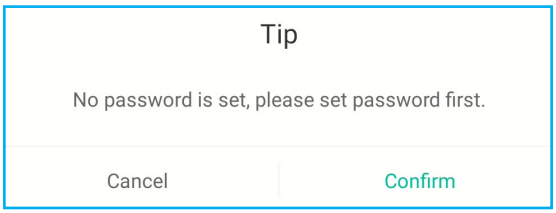
BASIC OPERATIONS

More Tools

Click **>** ⇒ ··· to access more tools such as **Timer**, **Freeze**, **Stopwatch**, **Spotlight**, **ScreenLock**, **PIP**, **Display center**, and **Calculator**.



- Click ***Timer*** to measure the duration of an event or activity.
- Click ***Freeze*** to freeze the screen. Then click to zoom in or click to zoom out. To restore the screen to its original size, click . Finally, to exit the tool, click .
- Click ***Stopwatch*** to measure the time interval between different events.
- Click ***Spotlight*** to activate spotlight. **Spotlight** can be used to direct the audience's focus to a specific part of the board.
- Click ***ScreenLock*** to lock the screen. If the screen lock password is not set, you are prompted to set the password. Follow the onscreen instructions to complete the procedure.

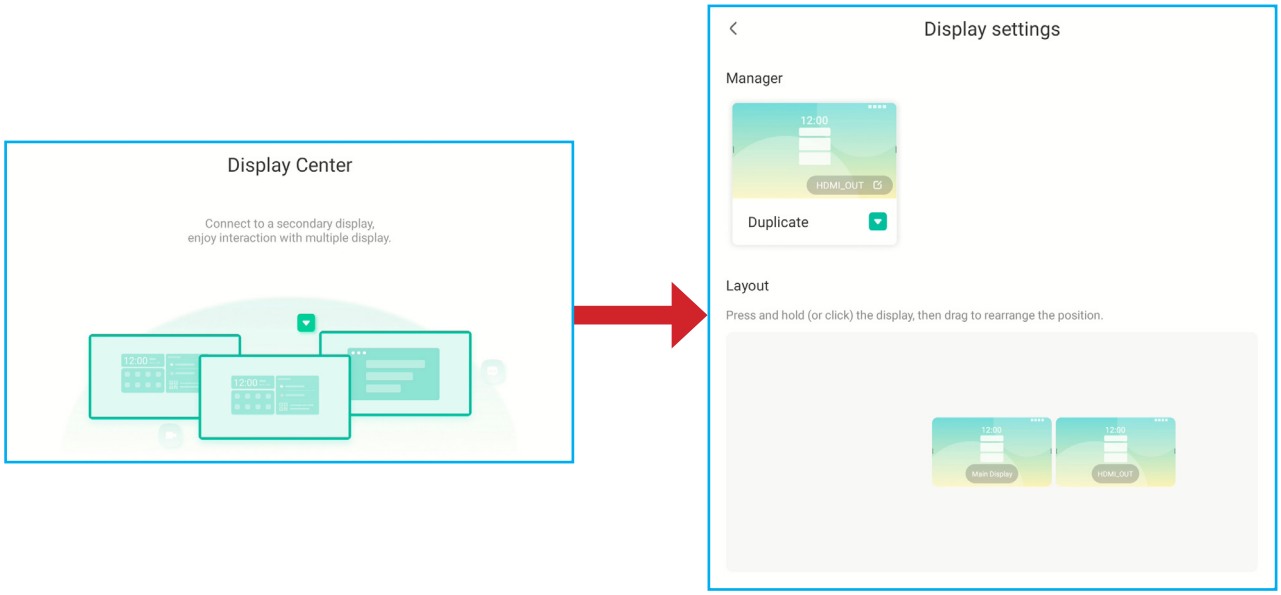


- Click ***PIP*** to switch to the picture-in-picture mode. For more information on PIP mode, refer to page *18*.

BASIC OPERATIONS

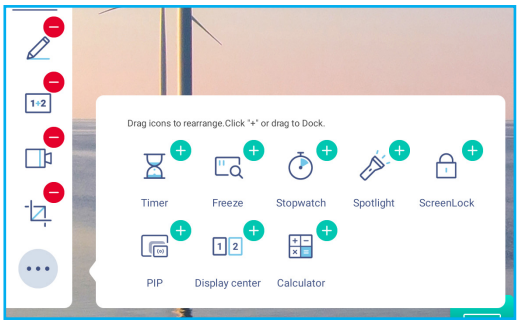
More Tools (Continued)

- Click ***Display center*** to connect to a secondary display. Ensure to connect the other display to the HDMI out port of the OPS module first and then configure the display settings. You can duplicate the display and rearrange the position.



- Click ***Calculator*** to use the calculator.

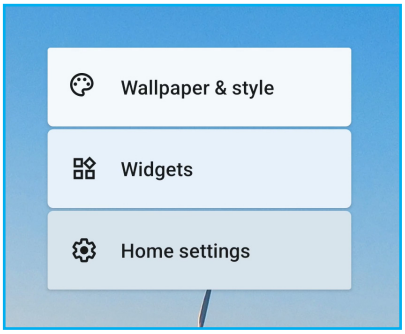
o customize the tools displayed in the **Side toolbar**, click **>** ⇒ ⋯ ⇒ ***Edit***. Then click ⊖ next to the icon you want to remove from the **Side toolbar** and click ⊕ next to the icon you want to add to the **Side toolbar**. You can choose up to 4 tools from the “More tools” window to add to the **Side toolbar**.



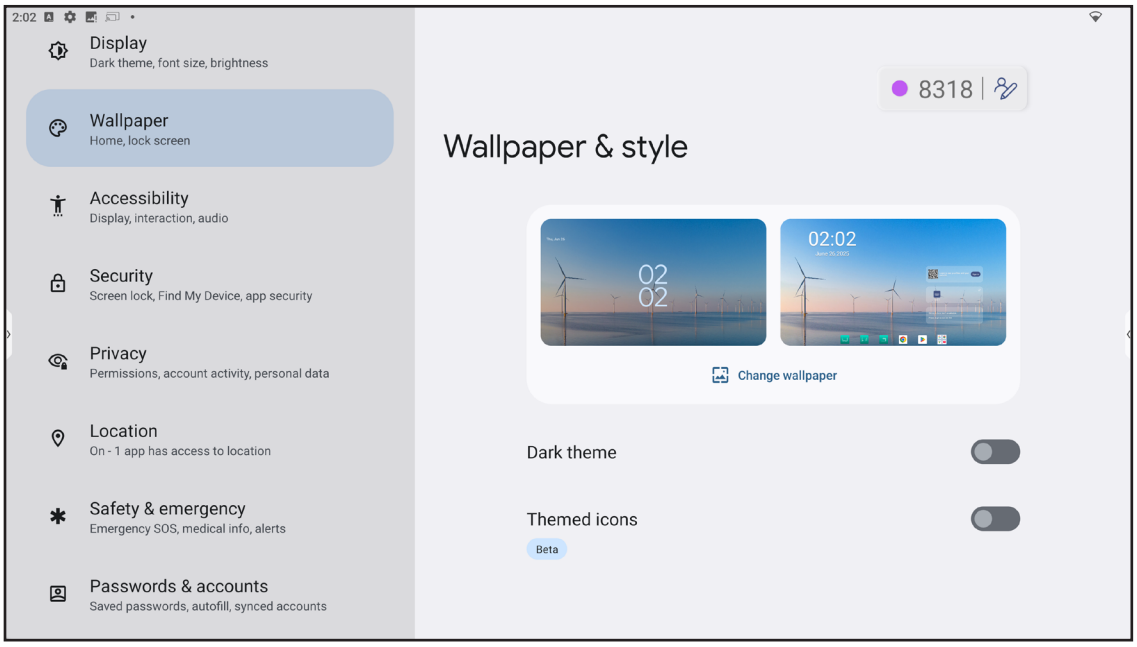
BASIC OPERATIONS

More Home Screen Features

Click and hold on the Home screen to change the Home screen wallpaper & style, add widgets, and configure the screen settings.



- Click ***Wallpaper & style*** to change the Home screen wallpaper, enable or disable dark theme, themed icons, configure accessibility, security, privacy, location, safety & emergency settings, manage passwords & accounts, digital wellbeing & parental control settings, Google services & preferences, system settings, and view device information.



- Click ***Widgets*** to add more widgets to the Home screen. You can search for a widget or select it from the list. To add the widget, click and drag it to the Home screen.

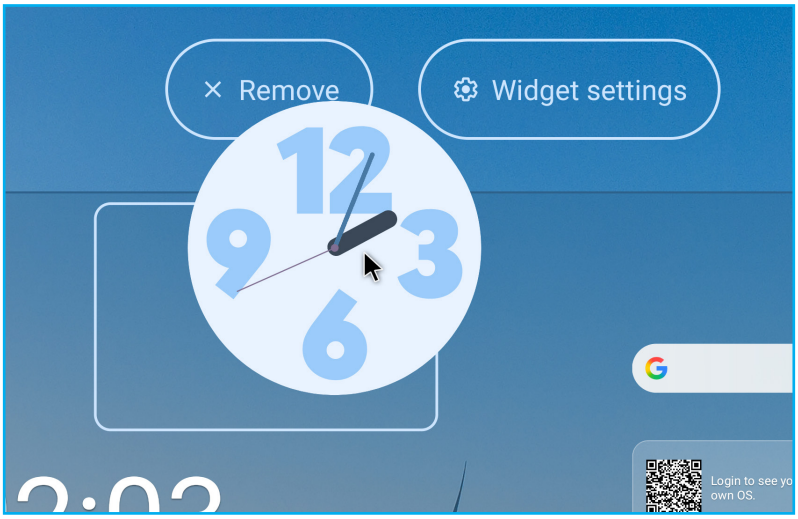


BASIC OPERATIONS

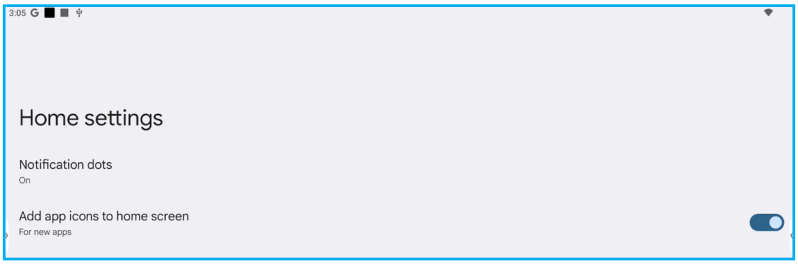
More Home Screen Features (Continued)

Note:

- *To remove the widget, click and drag the widget towards the upper edge of the screen over the wording "**Remove**" and then release to remove the widget.*
- *To customize the widget, click and drag the widget towards the upper edge of the screen over the wording "**Widget settings**", then release the widget and complete the modifications.*



- Click ***Home settings*** to enable or disable notifications dots and adding app icons to the Home screen.



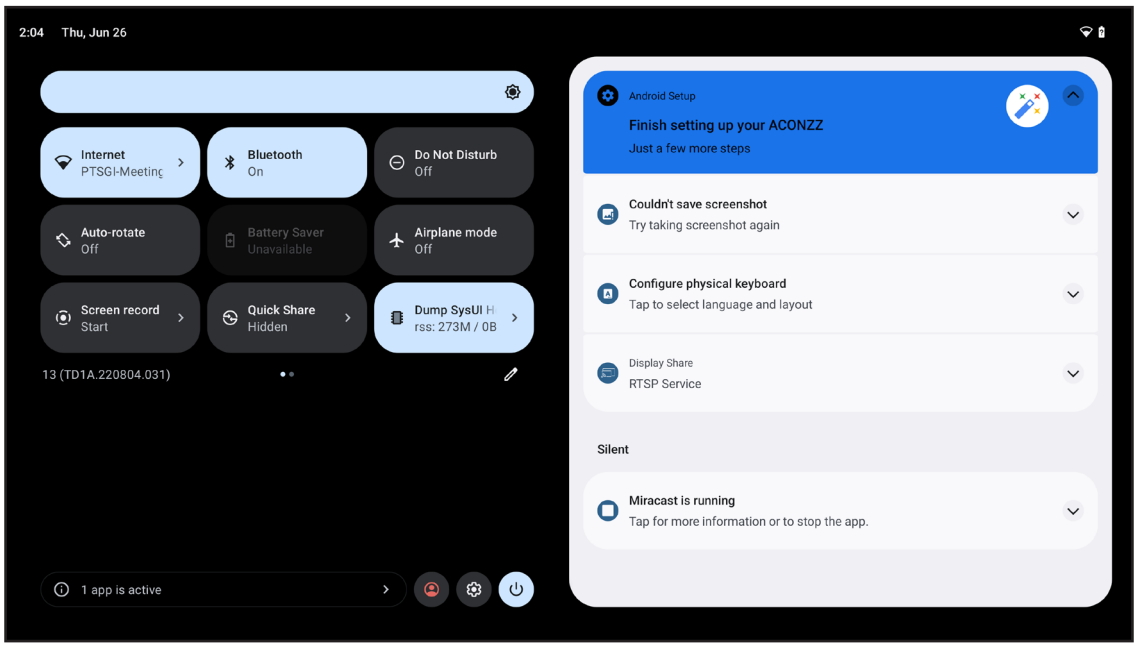
BASIC OPERATIONS

Quick Settings Panel

Swipe down from the upper edge of the screen to open the quick settings panel.

In the quick settings panel, you can adjust the screen brightness, access the basic settings, configure the account settings ( ), open the Settings menu ( ), power off or reboot the OPS module ( ), and read the notifications.

Note: *To manage the basic settings panel, click* .



To close the quick settings panel, swipe up.

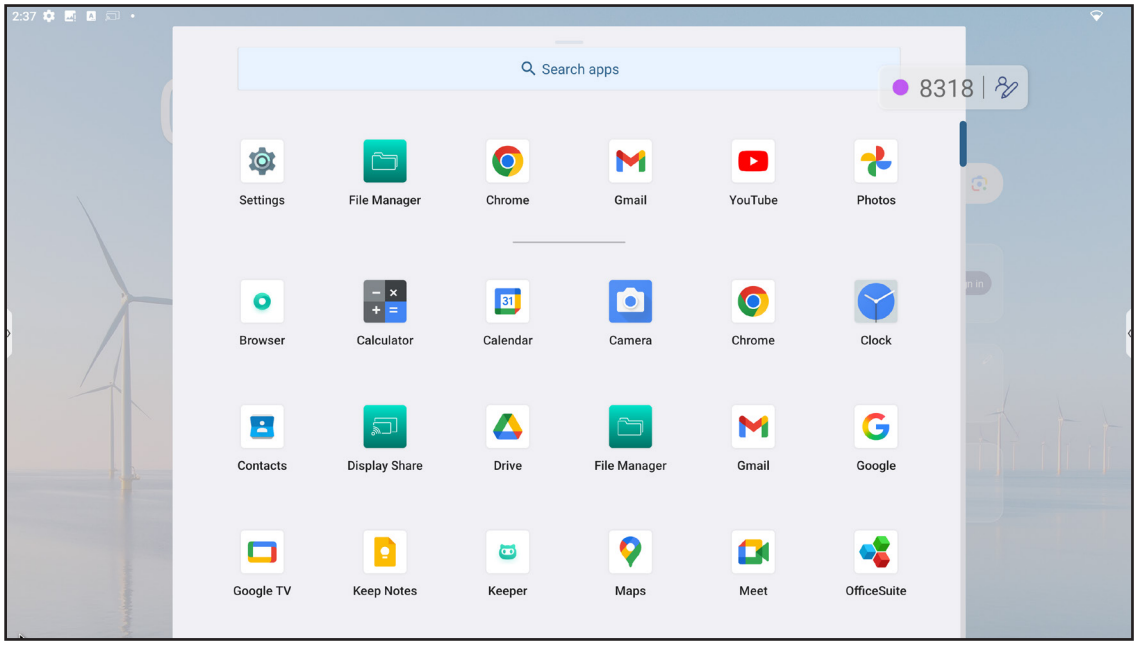
USING THE APPS

From the **Side toolbar**, click ⋮⋮⋮ or swipe up on the screen to view all the apps.

Note: *To manually install a third party application, you have to enable the **Unknown sources** setting first in the **Security** ⇒ **Advanced Settings** menu. Refer to page 36.*

You can then install the downloaded APK (Android Package) file into your system.

IMPORTANT! *Optoma recommends only installing approved apps from the Google Play Store, but cannot guarantee compatibility of the OPS module with other apps. The embedded Android 13 operation system or OPS module may not be compatible with all apps. Not all apps will work with all devices. Optoma is not responsible for the compatibility of any third-party Android apps. Third-party Android apps can vary in quality and some even contain malicious codes, which could compromise system security and may invalidate product warranty. Optoma makes no representations regarding the quality, security or suitability of any third-party apps and their compatibility with the Optoma OPS module. Optoma shall have no responsibility or liability with respect to any damage, faults, loss in functionality or security issues arising as a direct or indirect result of the installation of third-party apps on the OPS module. Optoma support in rectifying any issue which may result from the installation of third-party apps will be chargeable and may be limited. Information is correct at the time of writing and is subject to change..*



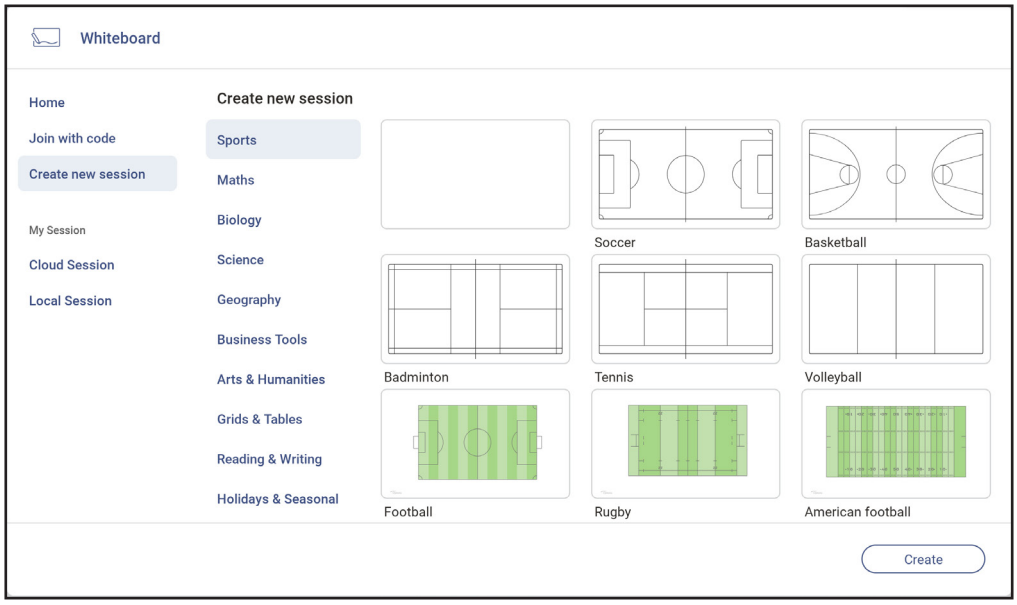
USING THE APPS

Whiteboard

Whiteboard is an online collaborative platform that can bring teams together to brainstorm, sketch and collaborate, anytime, anywhere.

Note: *For a more detailed introduction of functions, please refer to https://onlinemanual.optoma.com/whiteboard/.*

Click on the Home screen or in the **Side toolbar** to open the **Whiteboard**.



To start using the app, do the following:

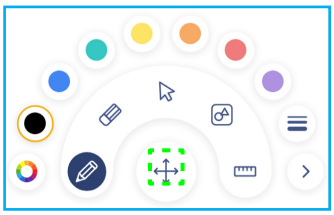
1. Click on the ***Create new session*** tab. Then select a background or template for your content.

   Note: *To access your cloud sessions, login to **Whiteboard** first.*

   - To open a recent session, click on the ***Home*** tab and under Recent category click on the session you want to continue.
   - To open a cloud or local session, under My Session category, click on the session you want to continue.

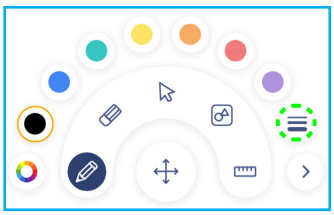
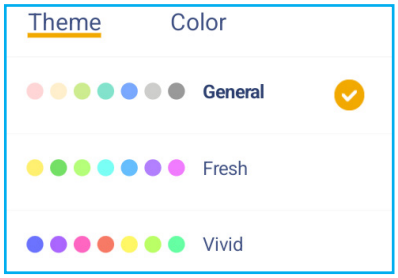
2. Click ***Create*** and use any of the activities described in the table below:

   Note: *The floating toolbar is home to many of the primary features found in the **Whiteboard** app, which are detailed here.*

Item		Description
	Move the floating toolbar	Click and drag or long-click on the screen to move the floating toolbar to your preferred location on the screen. 
	Minimize the floating toolbar	Click on the icon to minimize the floating toolbar. Click to expand the floating toolbar.

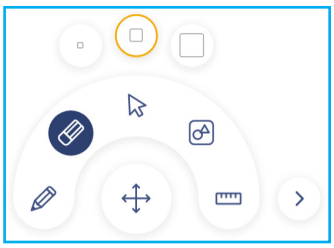
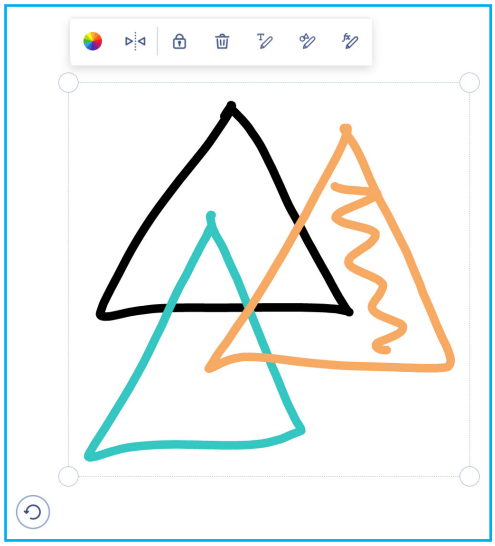
USING THE APPS

Whiteboard (Continued)

Item		Description
	Pen-tip options	Write or draw a freeform line or allow automatic recognition of your drawing. Click to select the desired line color and thickness.  - To show more pen-tip options, click on the to expand and view all available options.  Available pen-tips: • pen. • highlighter. • brush for painting. • automatic image detection. - Click to modify the color palette. You can select seven palette colors based on the theme or select them individually. 

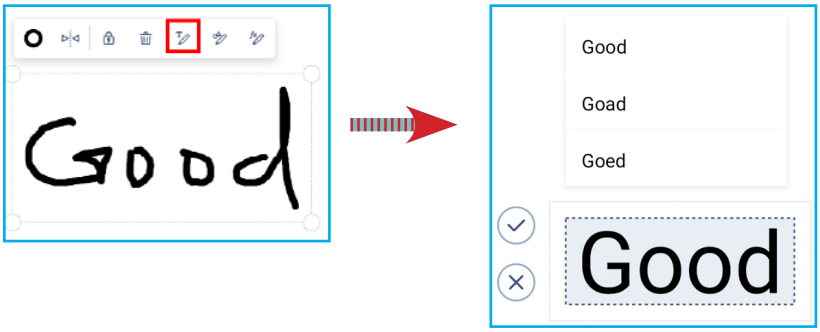
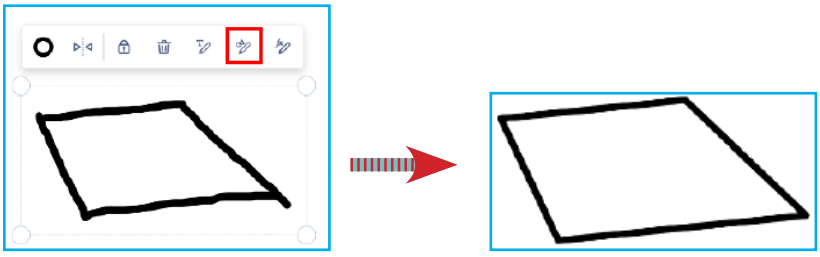
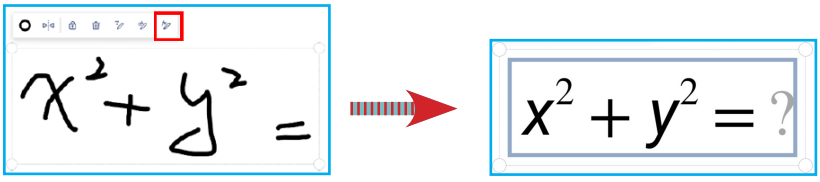
USING THE APPS

Whiteboard (Continued)

Item		Description
	Eraser	Erase areas of your written text or drawings. Select the eraser size and drag it over the area you want to erase. 
	Select	Select an object on the whiteboard. Click any of the following to alter the selected area:  • (boundary point) enlarge or shrink. • use free rotation. • change the color. • rotate 90 degrees. • lock the object and location. • delete. • detect text/symbols. • detect shapes. • detect formulas.

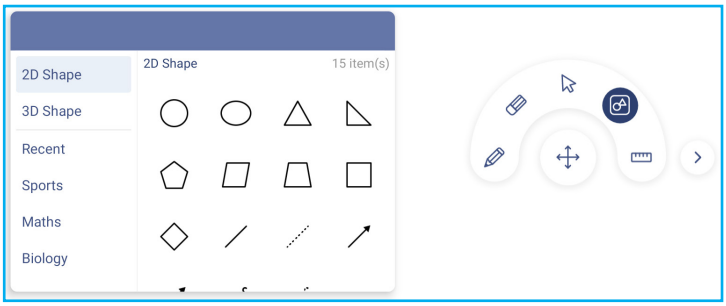
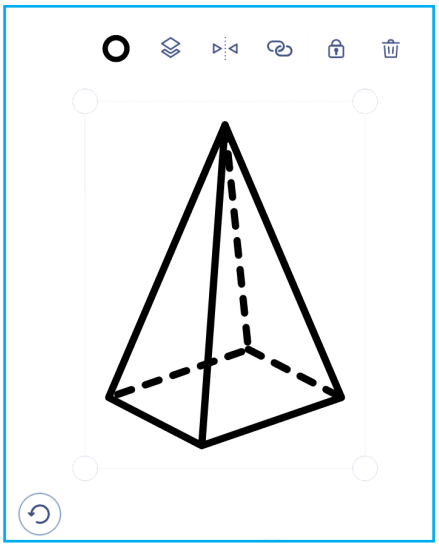
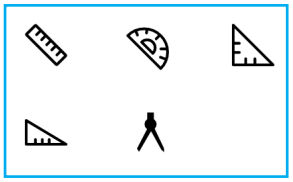
USING THE APPS

Whiteboard (Continued)

Item		Description
	Automatic recognition	**Whiteboard** can recognize your handwriting or drawing and can convert it into a digital format. 1. Write or draw on the screen. 2. Use the select tool to select the text or drawing. The following pop-up menu opens:  3. Click any of the following: • change the color. • rotate 90 degrees. • lock the object and location. • delete. • detect text/symbols. Select the correct text from the list and click to accept it or click to reject it and revert back to the handwritten text.  • detect a geometric shape.  • detect the handwritten function/formula and convert to typed text function/formula. 

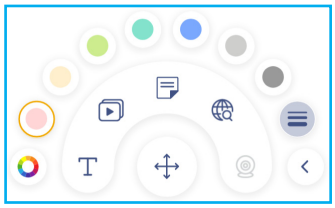
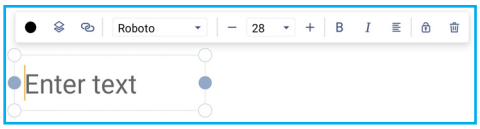
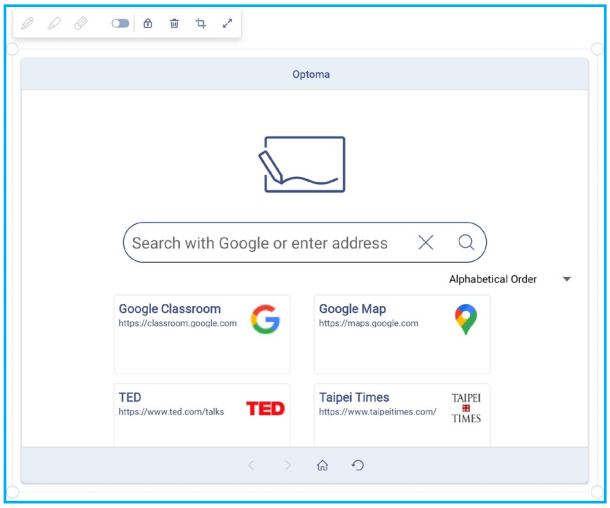
USING THE APPS

Whiteboard (Continued)

Item		Description
	Geometric shape	Click to select the desired 2D, 3D shape directly or from a category. 
	Geometric shape	After selecting the shape, click and drag to add it to the whiteboard. Click any of the following to alter the shape:  • (boundary point) enlarge or shrink. • use free rotation. • change the color. • arrange the object layers. Bring to front ( ) or send to back ( ) • rotate 90 degrees. • assign a hyperlink. • lock the object and location. • delete.
	Ruler	Embed interactive geometric tools. 

USING THE APPS

Whiteboard (Continued)

Item		Description
›	More tools	Click any of the following tools:  • open the text editor and add text.  • search for Google images or Youtube videos and embed the results onto the whiteboard. • add a note (), multiple notes (), or AI generated notes () onto the whiteboard. **Note:** *To add AI generated notes, you need to log in with your Optoma account.* • embed a fully functional web browser window. You can lock the position of the browser window, capture screenshots, resize, relocate, delete it, and more.  **Note:** *To customize the list of website URLs, log into your Optoma Whiteboard account and add your custom list.* • embed a document camera.
+	Add a page. To add a page, click the + on the bottom of the whiteboard canvas.  	

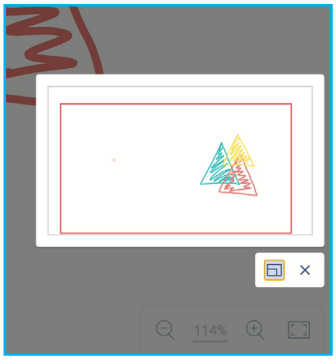
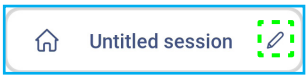
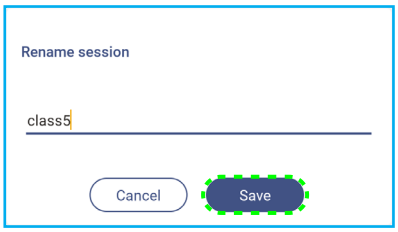
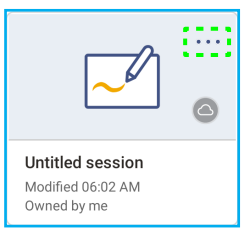
USING THE APPS

Whiteboard (Continued)

Item		Description
☰	Menu	Click ☰ on the bottom toolbar and then click any of the following options: • ***New*** to create a new session. • ***Open*** to open a local or cloud session. • ***Save/Save As*** to save/save as the current content to local or cloud session. • ***Import*** to import a JPG, PNG, or PDF file. • ***Export*** to export the session as JPG, PNG, or PDF file. • ***Settings*** to open the **Whiteboard** Settings menu. Then enable or disable auto save for local session, eye protection writing mode, customize the floating board & how it is triggered, and update software. • ***Tutorial*** to open and review the **Whiteboard** tutorial. • ***Share*** to share the whiteboard session by QR code or email. **Note:** *To share the whiteboard session by the QR code, make sure the other device is connected to the same Wi-Fi as the OPS module.*
	Background options	Select a background color (🪣) or apply a template (▦) to your session. You can also upload an image to use as your background template from storage.
	Page manager	View and manage all pages that are part of the current session. Click any of the following:  • < OR > to open the previous or next page. • Page number, for example ***2/3*** to open the page manager:  Click ⊕ on the left side to add a page to the left or on the right side to add a page to the right. Click 🗑 to delete the selected page.

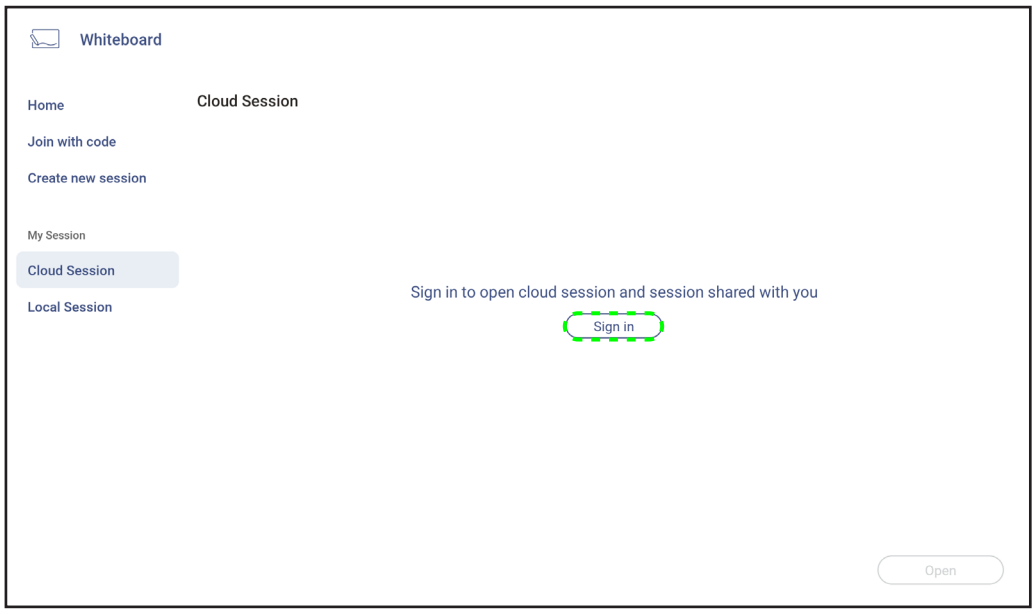
USING THE APPS

Whiteboard (Continued)

Item		Description
/	Zoom	Zoom in or zoom out on the screen. Then click to open the zoom preview window. Move the red box to the area that you want to show on the screen or click and move the object on the screen to your preferred location.  Click to close the zoom preview window.
	Delete a page	Delete all items/objects on the current page.
	Undo	Undo your last action.
	Redo	Redo your last action.
	Session name	The default session name is “Untitled session”. **Note:** *Click next to the session name to access the **Whiteboard** launcher page.*  To rename the session, click and type in a new name at the prompt. Then click ***Save***.  **Note:** • *You can also rename the session on the **Whiteboard** Home tab. Select the session and then click ••• ⇒ **Rename**. Click **Save** at the prompt to save the modifications.*  • *If the session is marked with the icon then it means it is an active cloud session and if the icon is then it means it is a inactive cloud session. All other sessions are local sessions. To access cloud sessions, make sure to be logged in to **Whiteboard**.*

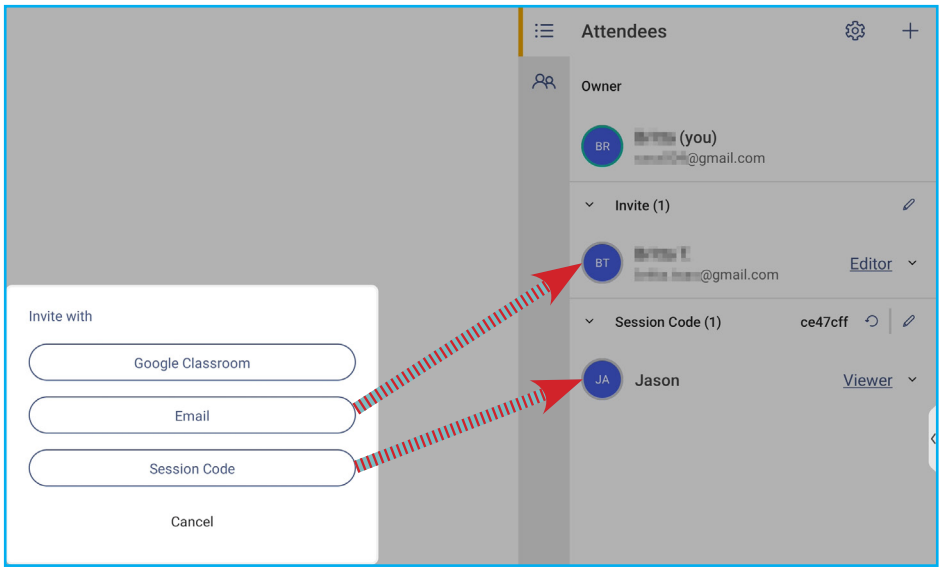
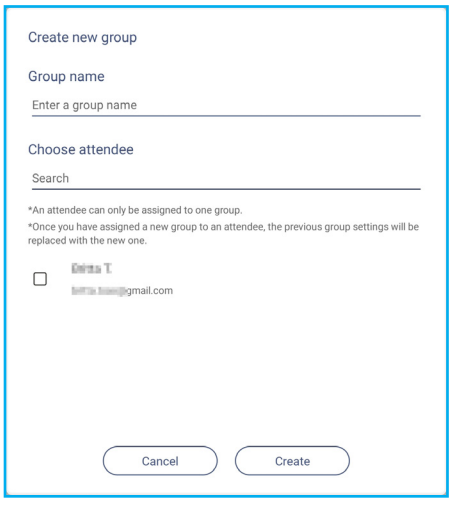
USING THE APPS

Whiteboard (Continued)

Item		Description
	Sign in	Sign in to **Whiteboard** with your **Whiteboard** or Google account to create new, or open existing, cloud sessions. Open the Cloud Session tab on the **Whiteboard** launcher page. Then click ***Sign in***. 

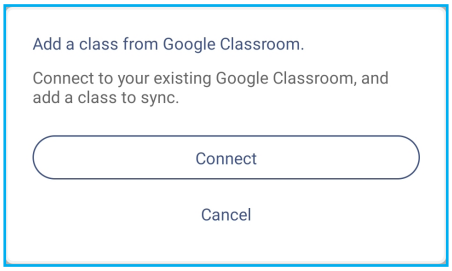
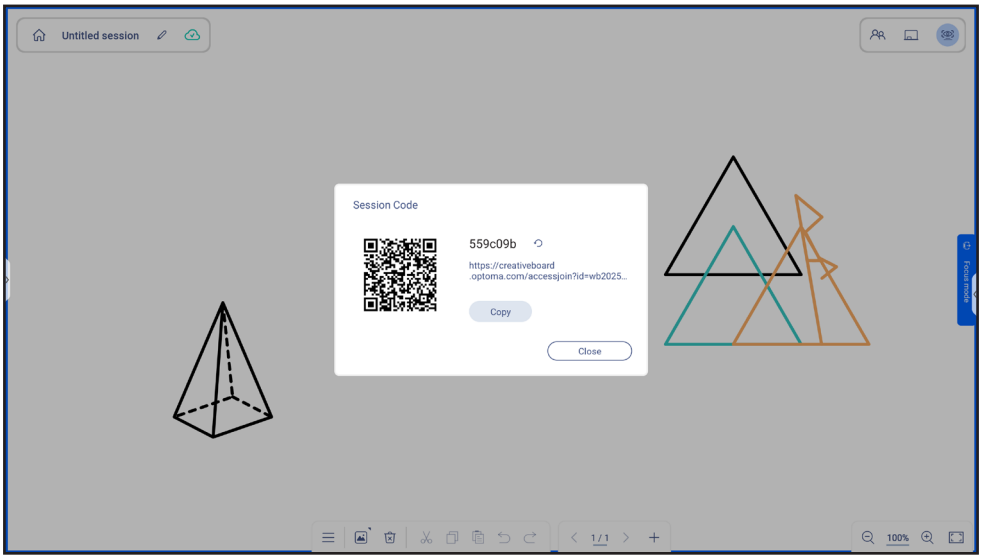
USING THE APPS

Whiteboard (Continued)

Item		Description
	Attendees management	Invite attendees to join the **Whiteboard** session. On the Attendees tab ☰ in the upper right corner, click + and then select any of the following options:  • Google Classroom • Email • Session Code On the Attendees tab you can assign a role to the attendee (either viewer or editor), delete (✎ ⇒ ⊖) attendees, renew (↻) the session code, and configure (⚙) attendee settings. Click 👥 to access the Group tab. Then click + and enter the group information, such as group name and attendees. Click ***Save***.  To modify group settings, click • • •.

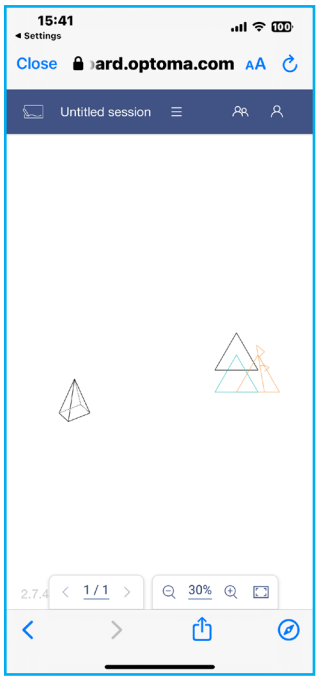
USING THE APPS

Whiteboard (Continued)

Item		Description
	Google Classroom management	Click ***Connect*** to connect to your existing Google Classroom, and add a class to sync. 
	Focus Mode	Focus Mode allows the owner to switch the screens of editors or viewers to match the owner's screen, guiding attendees' attention in real-time. To activate Focus Mode, click the icon in the upper right corner of the screen. This triggers a frame to appear on both the owner's and attendees' screens, indicating that Focus Mode is active. Press again to stop the Focus Mode. Please note that the access permissions will differ for the owner, editors, and viewers under this mode: • Owner: Retain full access to all functions. • Editor: Editing functions are disabled, and the screen will be locked to the owner's view. • Viewer: The screen will be locked to the owner's view. Join the session by scanning the QR code. 

USING THE APPS

Whiteboard (Continued)

Item		Description
	Focus Mode	After scanning the QR code, you can see the current session on the screen of your portable device. 

USING THE APPS

Display Share

Click on the Home screen or in the **Side toolbar** to start wireless sharing and projection via Wi-Fi or LAN.

Note: *For a more detailed introduction of functions, please refer to https://onlinemanual.optoma.com/displayshare/.*

IMPORTANT!

- *The OPS module and your mobile device/computer must be connected to the same Wi-Fi or LAN network.*
- *While in use, make sure that you have access to the Internet.*

Supported Operating Systems for Casting

Display Share Senders	Available Version
Windows	Windows 8, 8.1, 10, 11 and above
Mac	MacOS 10.12 and above
iPhone	iOS 14 and above
Android	Android 9.0 and above
Chrome	Chromebook OS V74 and above

Proprietary Sharing

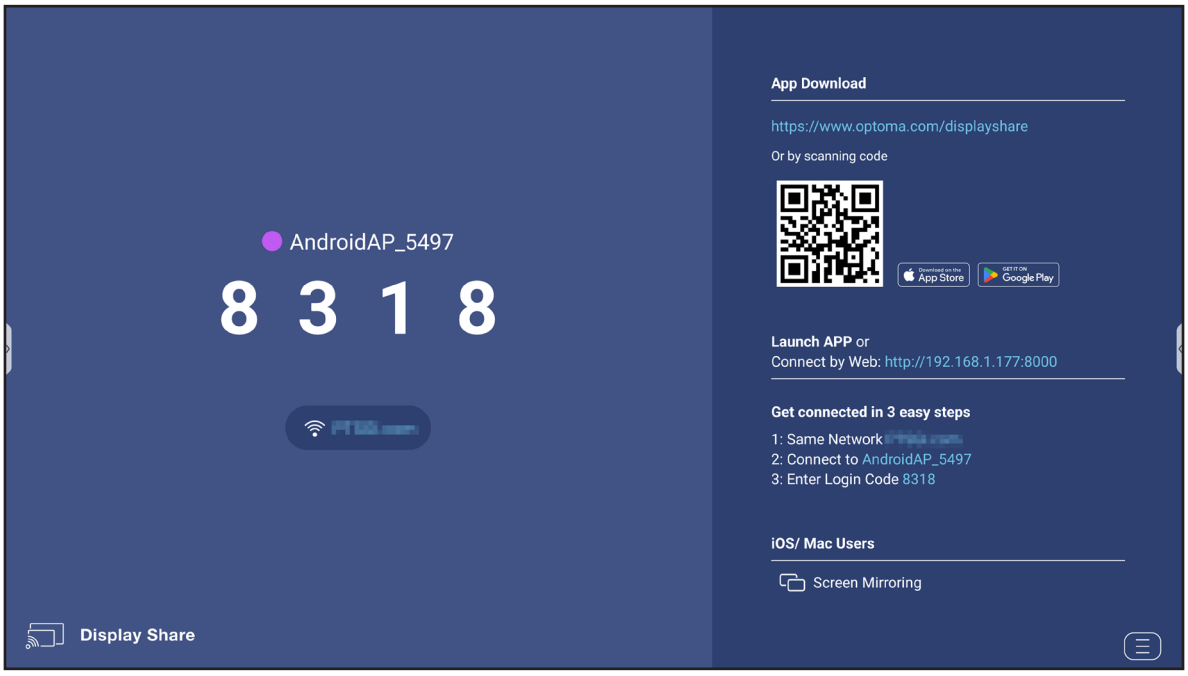
Features	Operation System
Web Sharing (Web Sender)	Chrome Browser
AirPlay Support	iOS 14 and above
ChromeCast	

USING THE APPS

Mobile Device

When the setup guide screen appears, scan the QR code to download and install the **Display Share** app onto your mobile device.

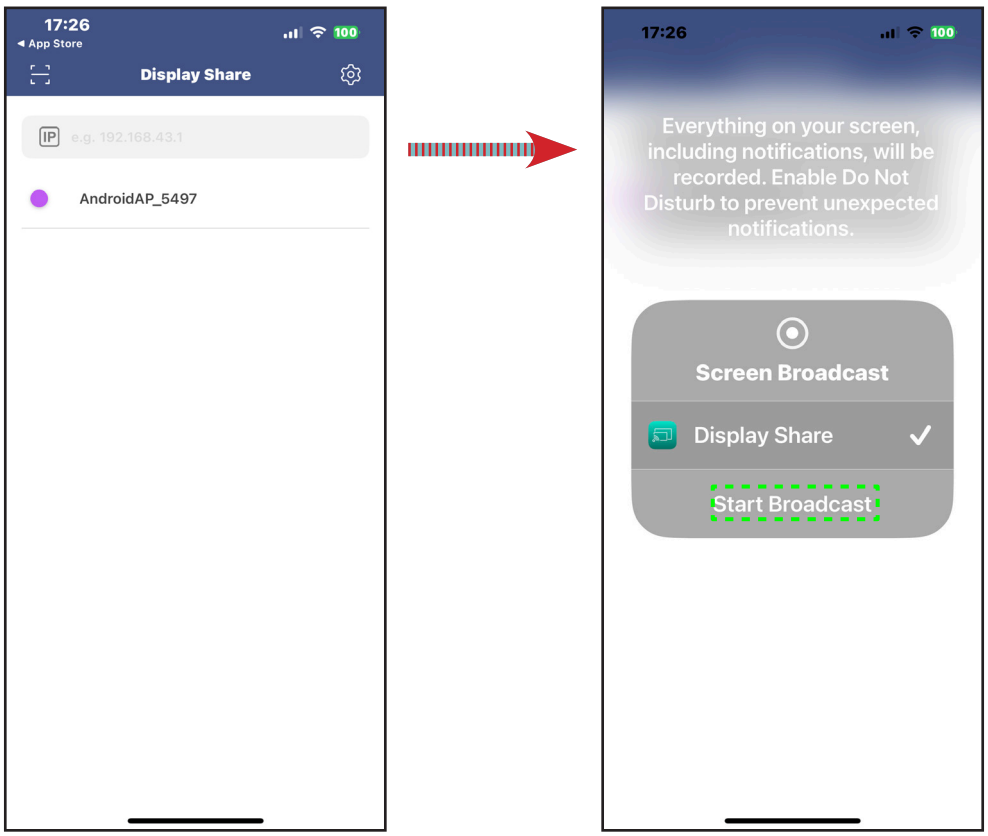
Note: *You can also download the **Display Share** app from https://www.optoma.com/displayshare website.*



To connect to the OPS module, complete the following steps:

Note: *The connection steps are described based on an iOS device.*

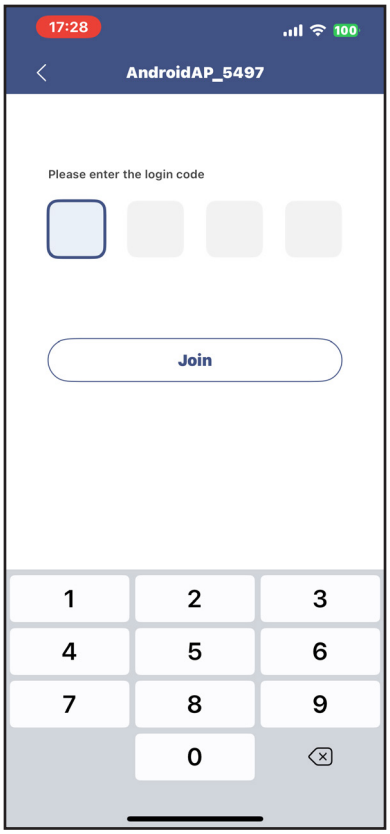
1. Launch the **Display Share** app. Select the device and then tap ***Start Broadcast***.



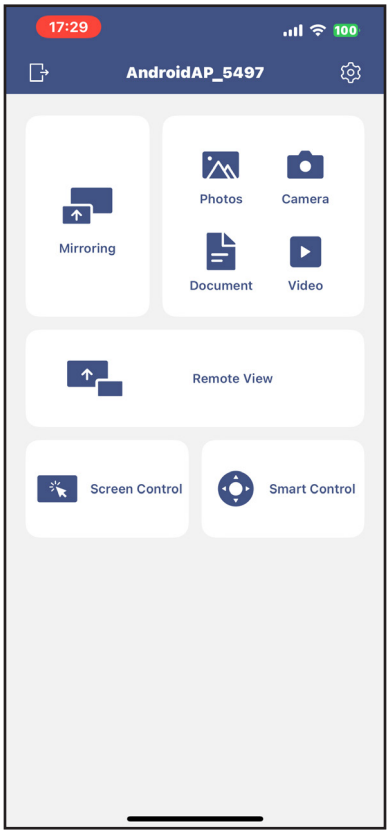
USING THE APPS

Mobile Device (Continued)

2. Enter the **login code** from the launcher screen and tap ***Join***.



3. Tap any of the following:



USING THE APPS

Mobile Device (Continued)

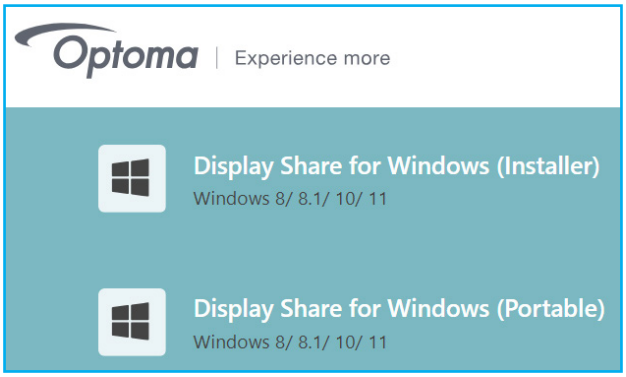
- **Mirroring** to mirror your mobile device's screen to the OPS module.
- **Photos** to view and share photos.
- **Camera** to stream your mobile device's camera to the OPS module.
- **Document** to view and share documents.
- **Video** to view and share videos.
- **Remote View** to mirror the OPS module screen to your mobile device with annotation and image saving feature.
- **Screen Control** to mirror the OPS module screen to your mobile device. You can use your mobile device to operate the OPS module.
- **Smart Control** to use your mobile device as a remote control to control the OPS module.
- **Settings** to modify your mobile device's user name, view the **Display Share** version, and read the Open Source License.

4. To stop the screen broadcast, tap .



Computer

You can mirror the screen of your computer via Chrome browser or **Display Share**. To use either of these options, open the browser and enter the IP address that is displayed on the launcher screen into the URL field. For example, *http://192.168.1.177:8000* or download and install **Display Share for Windows** from *https://displayshare.optoma.com/* website.

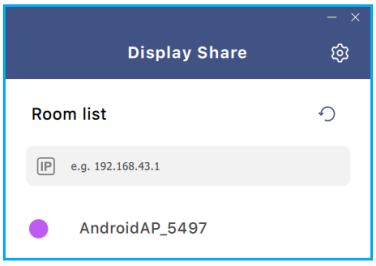


USING THE APPS

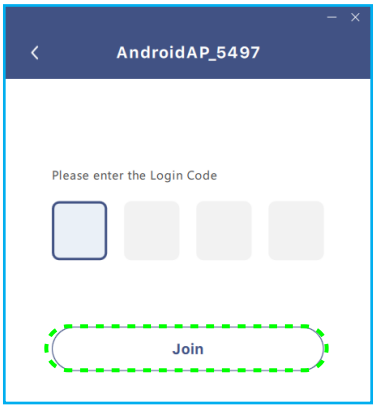
Computer (Continued)

To start screen casting, download **Display Share** to your computer.

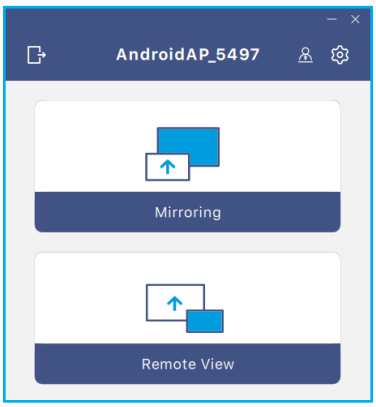
1. Launch the **Display Share** app and click on the device you wish to connect to.
   - If the OPS module is not visible in the Room List, enter the OPS module's IP address manually into the ***Input IP address*** field. Press ***Enter*** to start searching for the device.



2. Enter the login code from the launcher screen and click ***Join***.



3. Click any of the following:

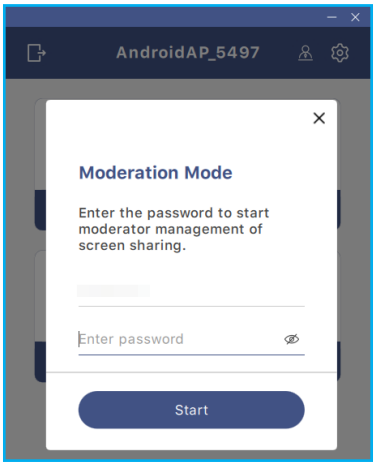


   - **Mirroring** to mirror your computer's screen to the OPS module.
   - **Remote View** to mirror the OPS module screen to your computer with the ability to annotate and save the image.
   - **Settings** to change the username, view the **Display Share** version, and read the Open Source License.

USING THE APPS

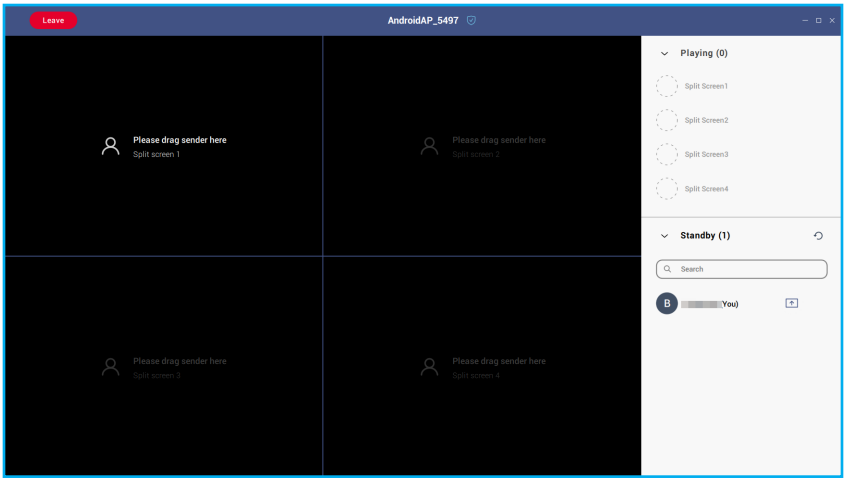
Computer (Continued)

- **Moderation Mode** to start moderating the current screen sharing session. Enter your password and click ***Start***.



Note: *To modify the admin password, refer to "Display Share Configuration" on page 81.*

You can select up to 4 screens to display on the OPS module. To exit moderation mode, click ***Leave*** and then click either ***Disconnect All*** or ***Leave the Room***.



4. To exit the **Display Share** app, click .

USING THE APPS

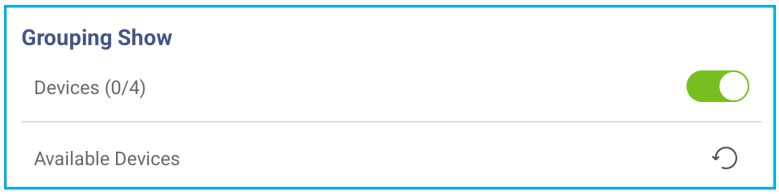
Display Share Configuration

Click to open the Display Share menu.

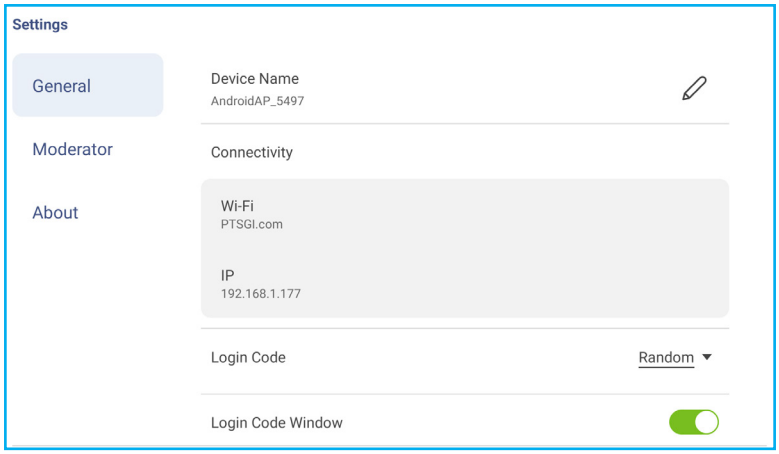


Click on any of the following icons to configure the **Display Share** settings:

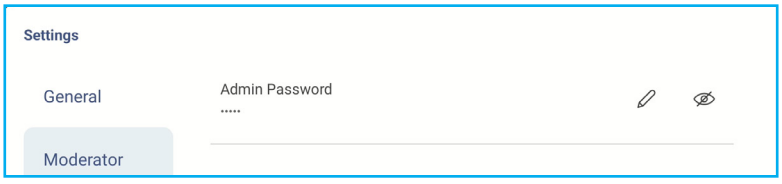
- **Annotation**: Open the annotation tool.
- **Grouping**: All OPS modules that are in the same domain can be searched and up to 4 devices can be selected to project the same screen. To refresh the list of available devices, click .



- **Settings**: Manage the general and moderator settings, view the **Display Share** app version, and read the Open Source License. Click on any of the following categories to configure the settings.
  - General tab: Modify the device name, view connectivity information, select the login code renewal pattern, enable or disable the floating window and the ability for users to connect/cast via the **Airplay**, **Chromecast**, and **Miracast** apps.



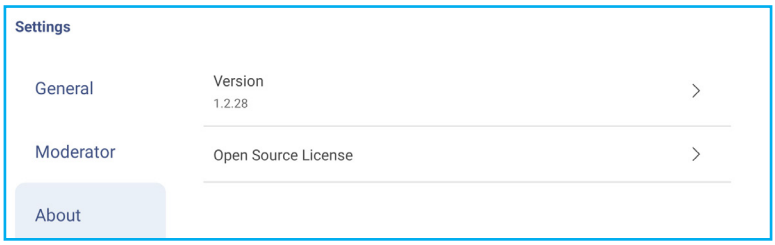
  - Moderator tab: Modify the admin password. The admin password is used when logging in as a moderator in **Display Share**.



USING THE APPS

Display Share Configuration (Continued)

- About tab: View the **Display Share** app version and read the Open Source License.



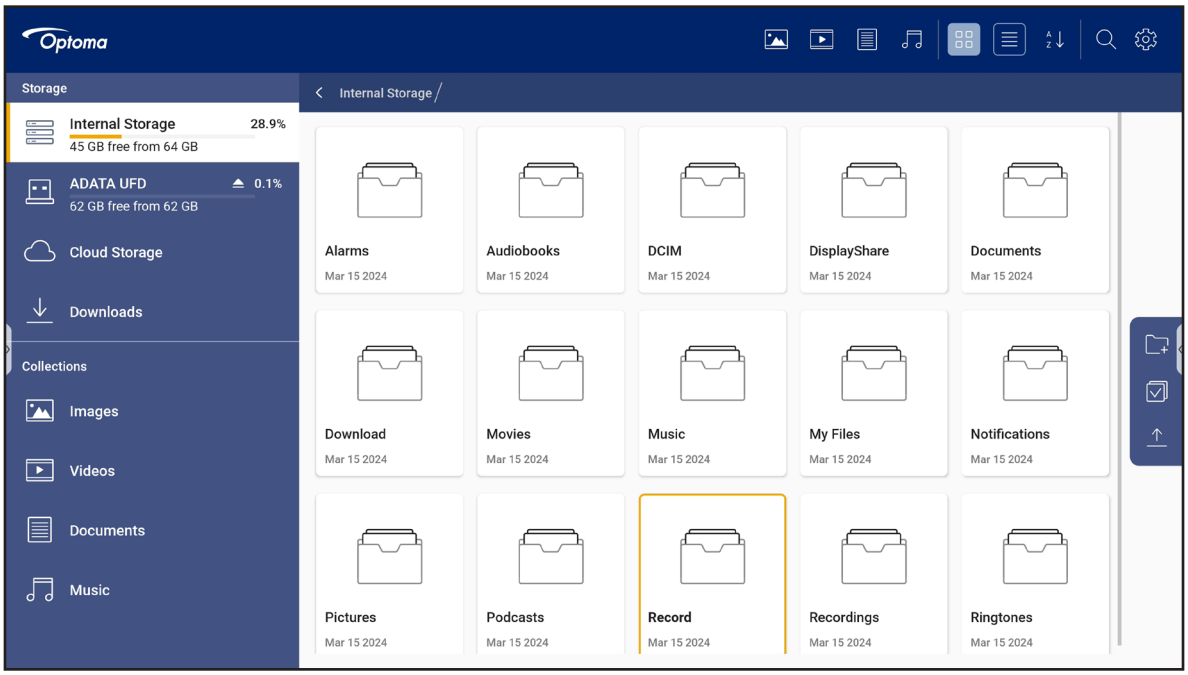
- **End session** : Click this to end the current session and disconnect all the connected devices.
- **Close** : Close the menu.

USING THE APPS

File Manager

Click on the Home screen or ⇒ in the **Side toolbar**.

Managing Files

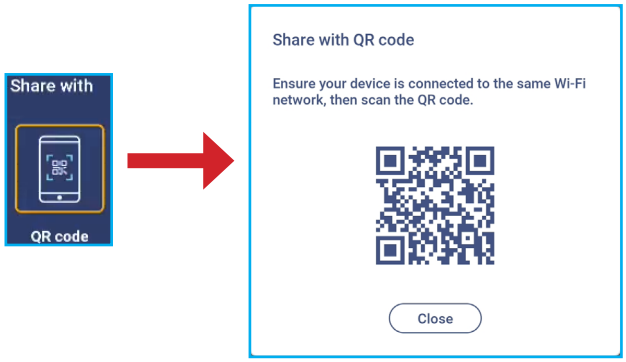


Select a storage location and browse for a file or folder you want to view then click twice on a file or folder to open. The table below will help you navigate **File Manager** and its included features.

Item		Description
	Images	Display only image files in the selected storage location.
	Videos	Display only video files in the selected storage location.
	Document	Display only document files in the selected storage location.
	Music	Display only audio files in the selected storage location.
	Thumbnail view	View files and folders as thumbnails.
	List view	View files and folders as a list.
	Sort	Sort files and folders by name or by date in ascending or descending order.
	Search	Search files and folders using key words or names.
	Software version	View software version and update app (if necessary).
	New Folder	Add a new folder.

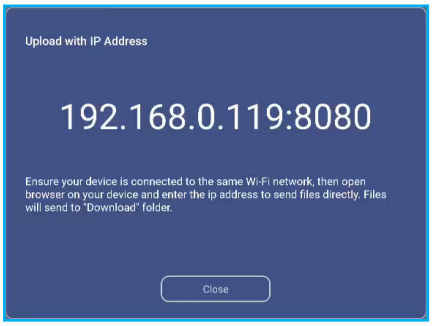
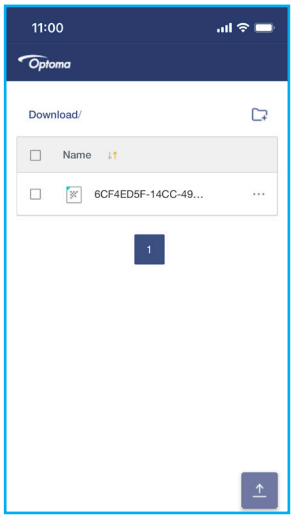
USING THE APPS

Managing Files (Continued)

Item		Description
	Select	Select files and folders. When selected, click any of the following: • undo your last action. • check/uncheck all items. • cut and paste item(s). • copy and paste item(s). • paste item(s). • delete item(s). • rename an item. • share an item via QR code. **Note:** *For file sharing via QR code, make sure your mobile device is connected to the same network as the OPS module.*  • compress item(s). • move/copy item(s) to another location or view item details.

USING THE APPS

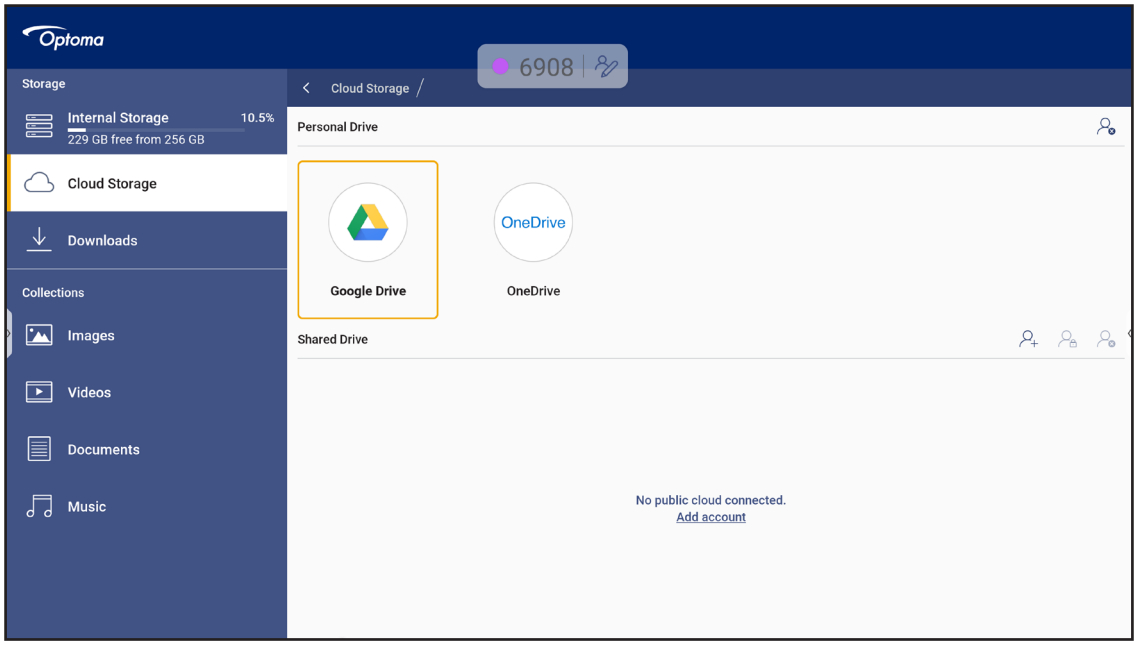
Managing Files (Continued)

Item		Description
	Share item(s)	Share item(s) between the OPS module and your mobile device over web browser.   **Note:** • *By default, all items that you upload to the OPS module are saved to **Download** folder.* • *For item(s) upload, make sure your mobile device is connected to the same network as the OPS module.*

USING THE APPS

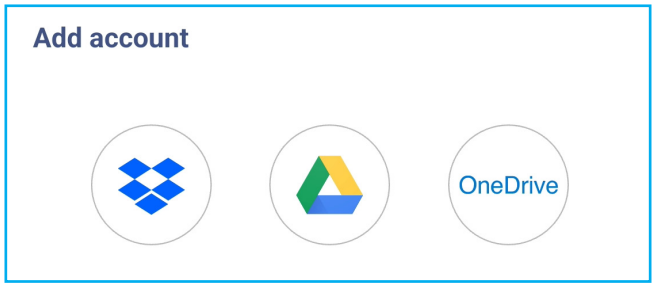
Cloud Storage

Click ***File Manager*** ⇒ ***Cloud Storage*** to create an account or use an existing account to access your cloud storage.

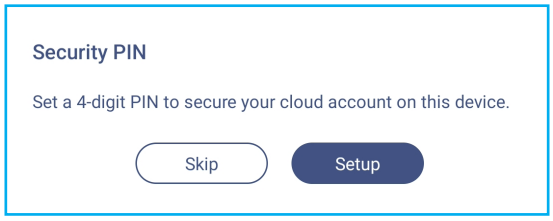


To create an account:

1. Click or ***Add account***.
2. Select the drive type.



3. Follow on-screen instructions to create an account or sign in to your existing account.
4. After successful login, you are prompted to set a security PIN. Click ***Setup*** to set the PIN or ***Skip*** to skip this step.

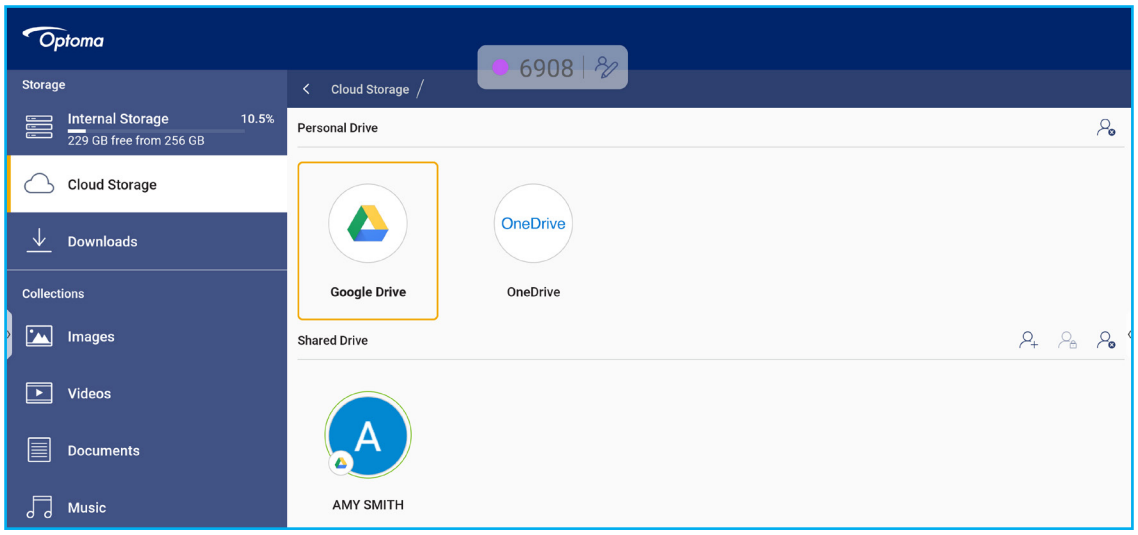


Note: *PIN code is used to protect user's cloud storage from being illegally accessed. When system status changes (for example, from standby to normal, from backlight off to on), a user must key in the PIN code the set up for verification in order to access their cloud storage.*

USING THE APPS

Cloud Storage (Continued)

Your account will be listed in the **Cloud Storage** menu.

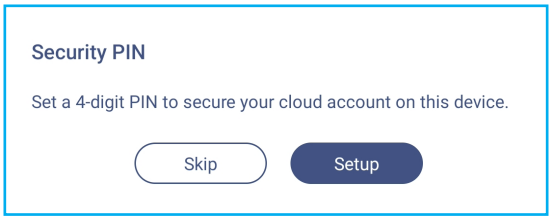


5. To manage your cloud storage account(s) in the **File Manager**, click any of the following:
   - to add another cloud storage account.
   - to lock the cloud storage account.
   - to delete the cloud storage account.

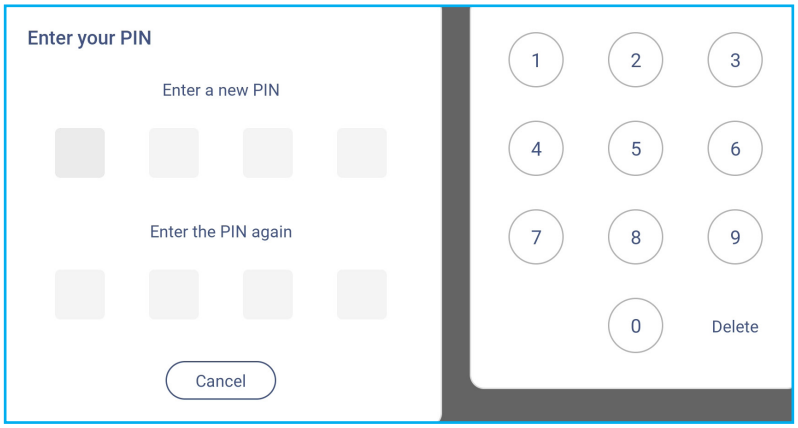
   Note: *Locking and deleting the cloud storage account in the **File Manager** will only prevent or remove access to that cloud storage in the **File Manager** and will not lock or delete the cloud storage in its original location, for example in Google.*

To add PIN security to cloud account if skipped during setup, follow these steps:

1. Select ***Setup*** to set the PIN.



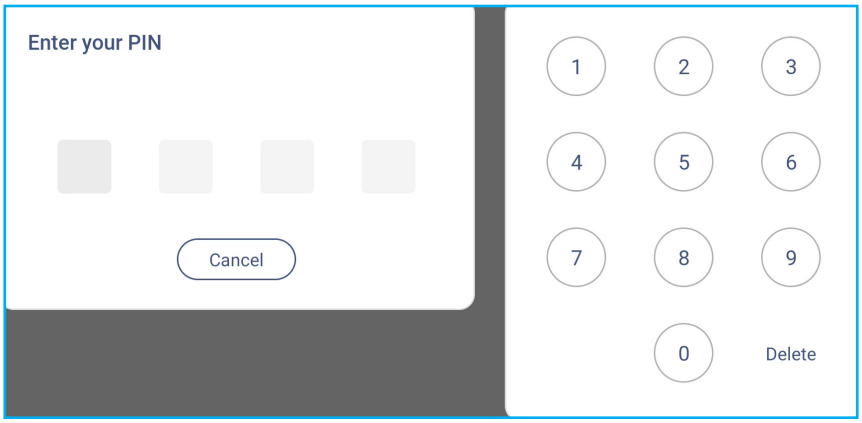
2. Enter a PIN code (4-digit number) in the *Enter a new PIN* field. Then enter again the new PIN code in the *Enter the PIN again* field.



USING THE APPS

Cloud Storage (Continued)

Note: *You only have to enter the PIN code once after successful login.*



Playing Multimedia Files

Multimedia formats supported

Movie

File	Codec		
Extension	Video	Audio	Maximum transmit ratio
.3gp/3GP2	H.263	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: SQCIF(128x96), QCIF(176x144), CIF(352x288), 4CIF(704x576) 30fps, 38.4Mbps
	H.264		Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps
.avi	H.264	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: 7680x4320 30fps, 80Mbps
	Mjpeg		Max. solution: 1920x1088 30fps, 45Mbps
.dat	mpeg1/2	Mpeg1/2 Layer1/2/3	Max. solution: 1920x1088 30fps, 38.4Mbps
.flv	H.264	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps
.mkv	Mpeg-4	Mpeg1/2 Layer 2, AAC, FLAC, Vorbis	Max. solution: 1920x1088 30fps, 80Mbps
	H.264		Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps
.mov	Mpeg-4	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: 1920x1088 30fps, 80Mbps
	H.264		Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps
.mp4	Mpeg-4	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: 1920x1088 30fps, 80Mbps
	H.264		Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps
.VOB	mpeg1/2	Mpeg1/2 Layer1/2/3	Max. solution: 1920x1088 30fps, 80Mbps
.mpg.mpeg	mpeg1/2	Mpeg1/2 Layer1/2/3, AAC-LC, PCM	Max. solution: 1920x1088 30fps, 80Mbps
.webm	vp9	Mpeg1/2 Layer1/2/3, AAC-LC, PCM, opus	Max. solution: 7680x4320 60fps, 80Mbps
	vp8		Max. solution: 1920x1088 30fps, 38.4Mbps
.ts	H.265	Mpeg1/2 Layer1/2/3, AAC-LC, PCM, opus	Max. solution: 7680x4320 60fps, 100Mbps
	mpeg1/2		Max. solution: 1920x1088 30fps, 80Mbps
	H.264		Max. solution: 7680x4320 30fps (60fps for simple stream), 80Mbps

USING THE APPS

Audio

File	Format	Audio codec	Supported range
.aac	AAC, M4A	ADIF, ATDS Header AAC-LC, AAC-ELD	Sample rate: 8KHz~48KHz Bit rate: N/A
.mpeg	MP1, MP2, MP3	MPEG1/2/2.5 Audio Layer1/2/3	Sample rate: 8KHz~48KHz Bit rate: 8Kbps~320Kbps, CBR and VBR
.flac	FLAC	Compress Level 0~8	Sample rate: 8KHz~48KHz Bit rate: N/A
.ape	Monkey's Audio	/	/
.opus	OPUS	OPUS	Sample rate: 8KHz~48KHz Bit rate: 32Kbps~9612Kbps
.mp3	MPEG Audio Layer 3	MPEG1/2 Layer3	Sample rate: 8KHz~48KHz Bit rate: 8Kbps~320Kbps
.ogg	OGG, OGA, Vorbis	Q1~Q10	Sample rate: 8KHz~48KHz Bit rate: N/A
.mid	XMF, MXMF, RTTTL, RTX, OTA, IMY	Midi Type 0 and 1, DLS version 1 and 2, XMF and Mobile XMF, RTTTL/RTX, OTA, iMelody	Sample rate: N/A Bit rate: N/A
.wav	WAV	MS-ADPCM, IMA-ADPCM, PCM	Sample rate: 8KHz~48KHz Bit rate: N/A

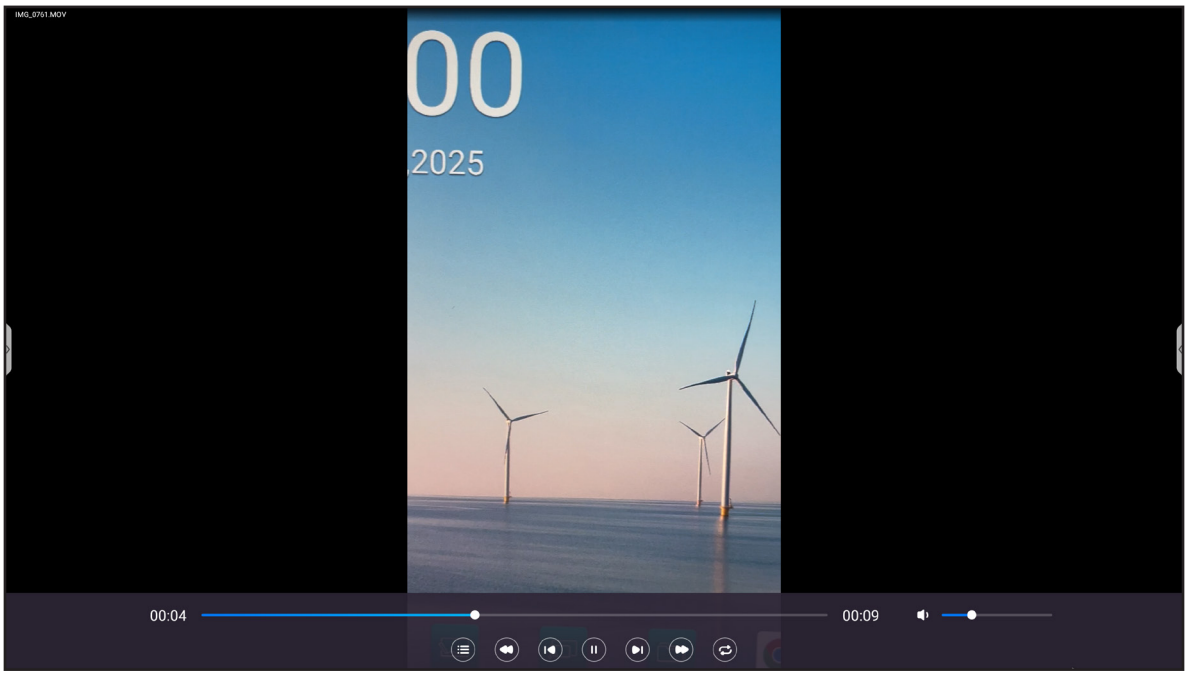
Photo

File	Format	Supported range	Remarks
.jpeg/jpg	JPEG	48x48 pixels to 65536x65536 pixels	(1) Not support non-interleaved Scan (2) Software support SRGB JPEG (3) Software support Adobe RGB JPEG
.png	PNG	/	/
.bmp	BMP	/	/
.gif	GIF	/	/

USING THE APPS

Playing videos

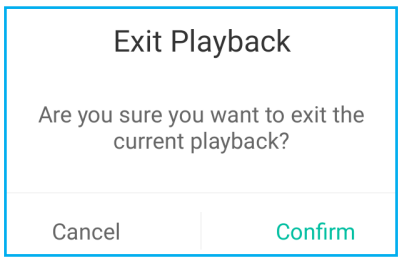
Select the video you want play and click twice on it to start playback.



During playback click on the screen to open the playback control toolbar. Then click any of the following:

Item		Description
	List	Display video thumbnails.
	Rewind	Rewind video.
	Previous video	Skip to the previous video.
/	Pause/Play toggle	Click to Pause the playback. To resume, click .
	Next video	Skip to the next video.
	Fast forward	Fast forward video.
/	Loop/Play once toggle	Click to play all video files in a loop or click to play the current video file in a loop. Click to play through all videos in the list once.
/	Volume control	Adjust the volume level.

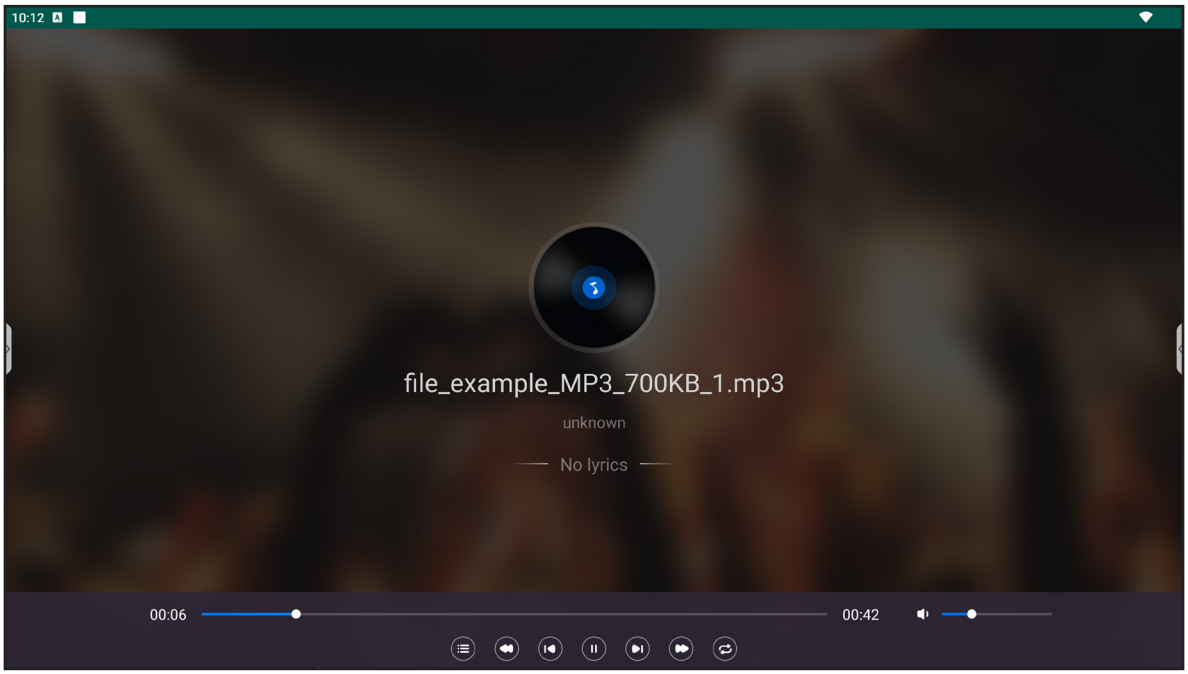
Note: *To stop playback, press the right mouse button. When the confirmation message appears, select* ***Confirm****.*



USING THE APPS

Playing music

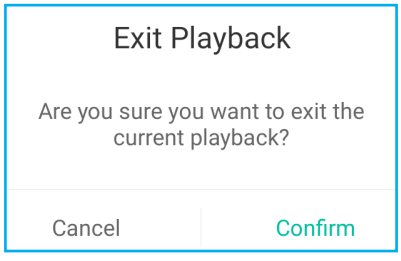
Select the audio track you want to play and click twice on it to start playback.



During playback click on the screen to open the playback control toolbar. Then click any of the following:

Item		Description
	List	Display track list.
	Rewind	Rewind the track.
	Previous track	Return to the previous track.
/	Pause/Play toggle	Click to Pause playback. To resume, click .
	Next track	Skip to the next track.
	Fast forward	Fast forward the track.
/	Loop/Play once toggle	Click to play all tracks in a loop or click to play the current track in a loop. Click to play through all tracks in the list once.
/	Volume control	Adjust the volume level.

Note: *To stop playback, press the right mouse button. When the confirmation message appears, select* ***Confirm****.*



USING THE APPS

Viewing images

Select the image you want to display and click twice to open it on the screen.



Click on the screen to open the image control toolbar. The table below explains the functions available on the image control toolbar.

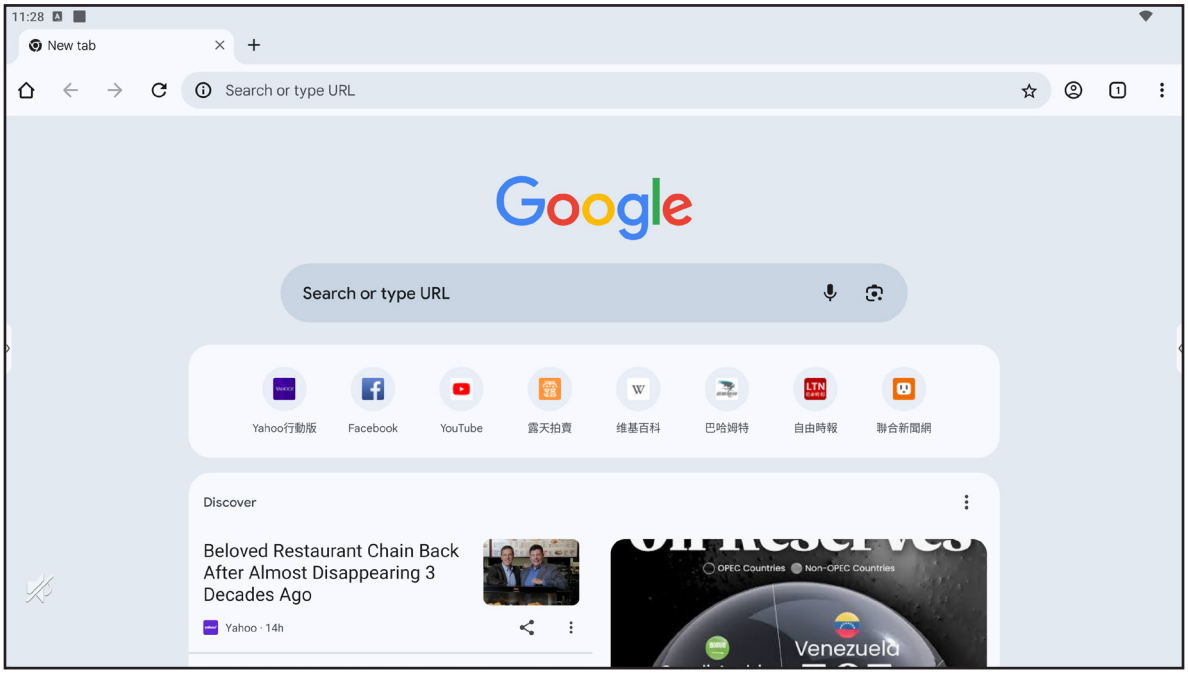
Item		Description
	Zoom in/Zoom out	Magnify the image or zoom out on the magnified image.
	Actual	Display the image in its actual size.
	Rotate	Rotate the image clockwise.
	Mark	Annotate over the image.
	Settings	• Configure the slideshow settings and click ***Play into full-screen*** to start the slideshow. Click to stop the slideshow. • Click ***Set to Wallpaper*** to set the image as the device wallpaper.
	List	Display image list.

Note: *To return to the file manager, press the right mouse button.*

USING THE APPS

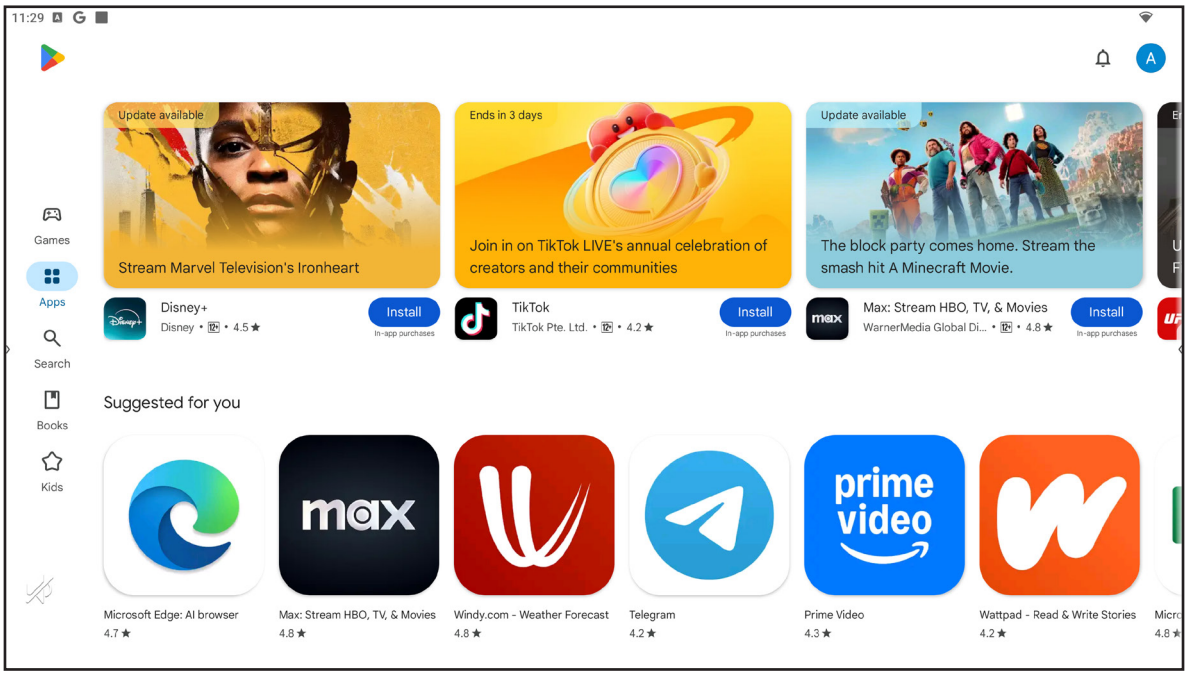
Browser

Click on the Home screen to launch the browser.



Google Play

Click on the Home screen to launch Google Play.

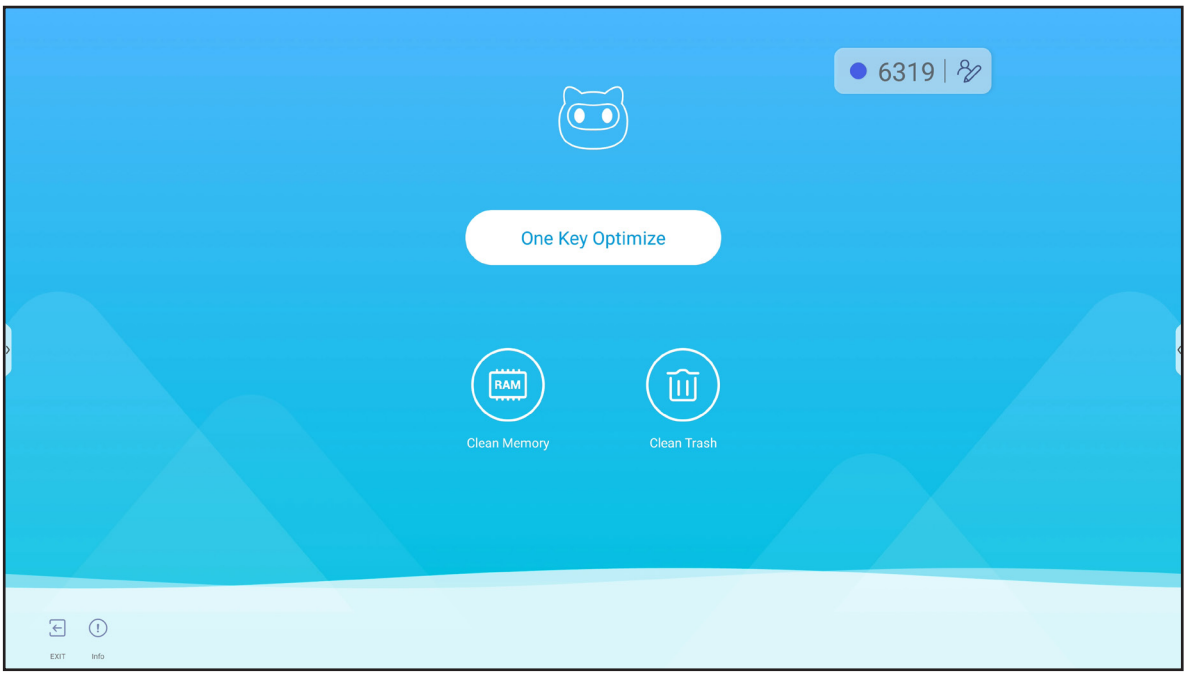


USING THE APPS

Keeper

Click ***Keeper*** to open the **Keeper** app and begin cleaning and optimizing the data on the OPS module.

- For automatic cleaning of the memory, deleting temporary and junk files, click ***One Key Optimize***.
- For manual cleaning of the memory, click ***Clean Memory***. For manual deleting temporary and junk files, click ***Clean Trash***.
- Click **Info** to view system version.
- Click **EXIT** to close **Keeper**.



USING THE APPS

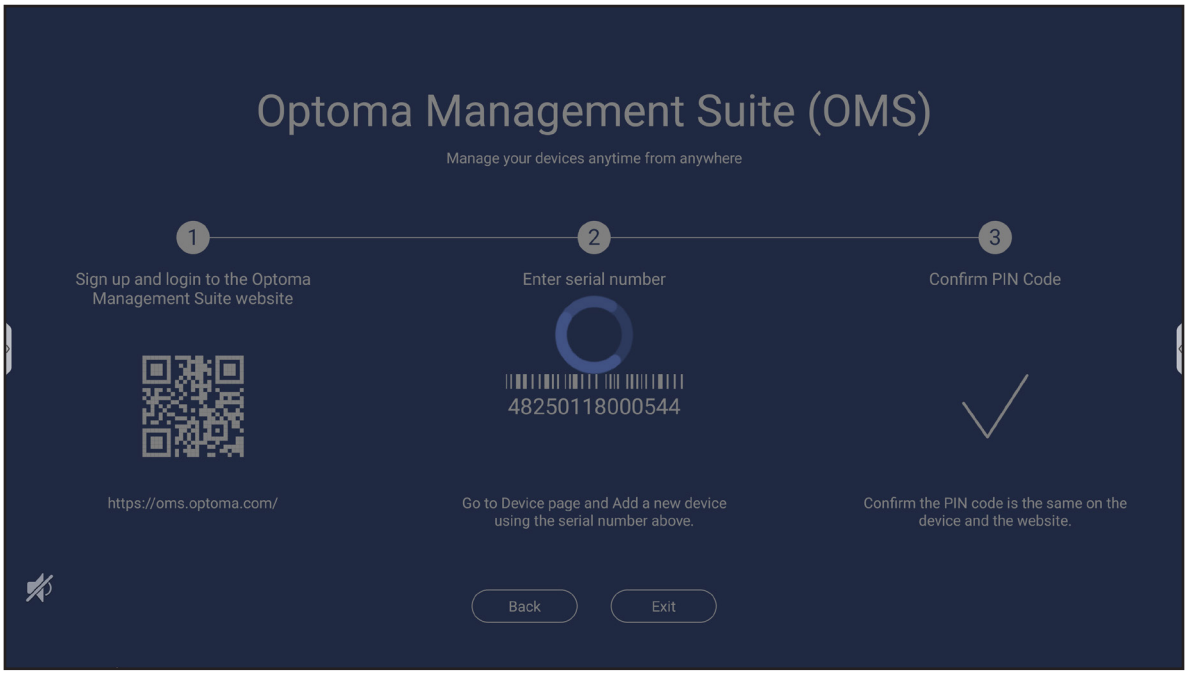
Optoma Management Suite (OMS)™

OMS is a remote management software that operates via Internet or LAN. It simplifies the remote management of the OPS module.

Note: *For a more detailed introduction of OMS functions, please refer to https://onlinemanual.optoma.com/OMS/.*

Note: *For a more detailed introduction of LAN-based OMS functions, please refer to https://onlinemanual.optoma.com/omsl.*

1. For OMS Cloud, log in to the OMS website: *https://oms.optoma.com/* or to use a local LAN version of OMS, download the OMS app for Windows from your localized Optoma regional website (start by going to *https://www.optoma.com*).
2. In the **Settings** ⇒ **Device** menu, click ***OMS*** or click OMS on the Apps screen.

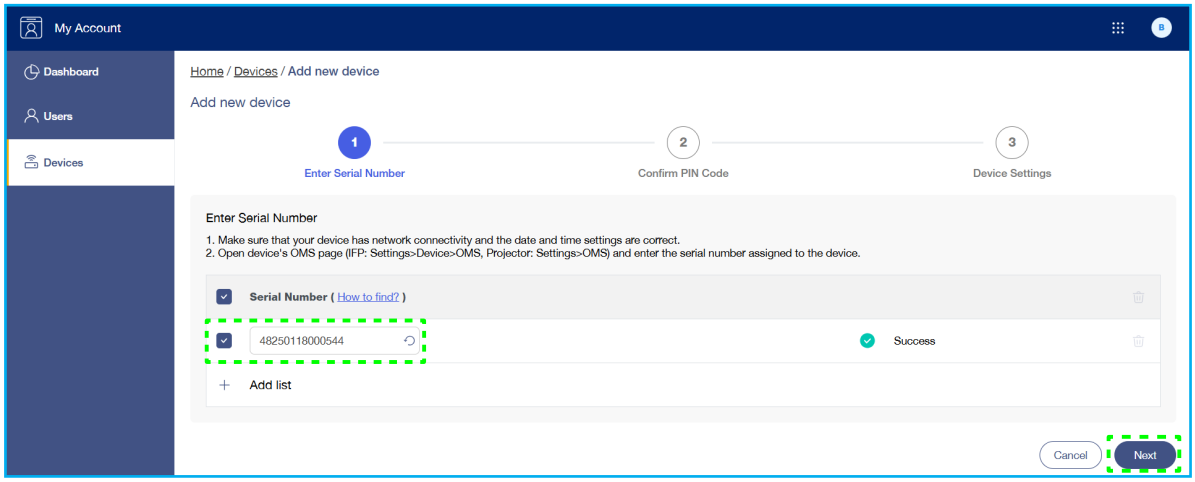


Optoma Management Suite (OMS)™ (Continued)

3. From OMS in your browser, click on the ***Devices*** category .

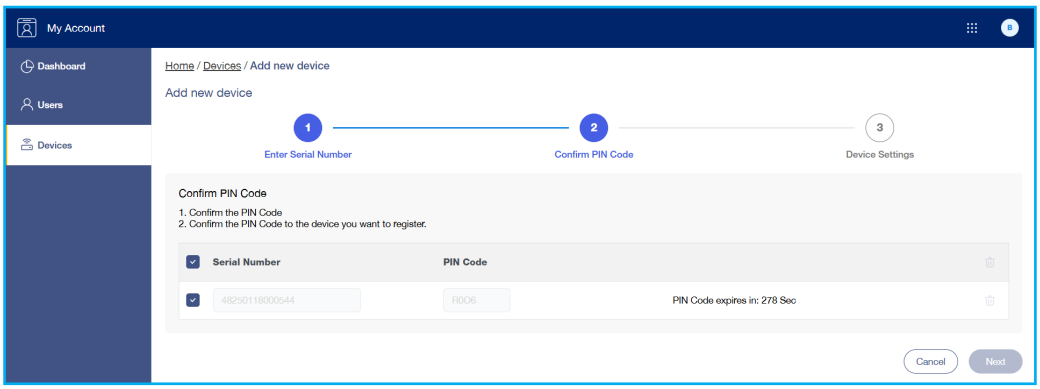
4. Enter the serial number from the **Optoma Management Suite** launcher page. If the device is accessible, then you will see a "**Success**" message next to the device. Click the checkbox to select the device and click ***Next*** to continue.

   Note: *To add more devices, click **Add list**. Then, repeat step 4.*

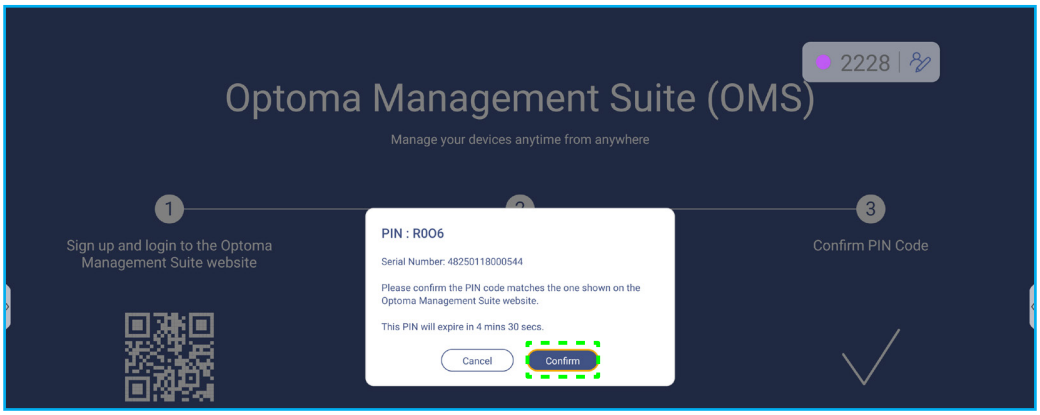


5. Confirm the pin code on the OPS module and your browser. If the codes match, click ***Confirm*** on the Optoma Management Suite launcher page.

Browser



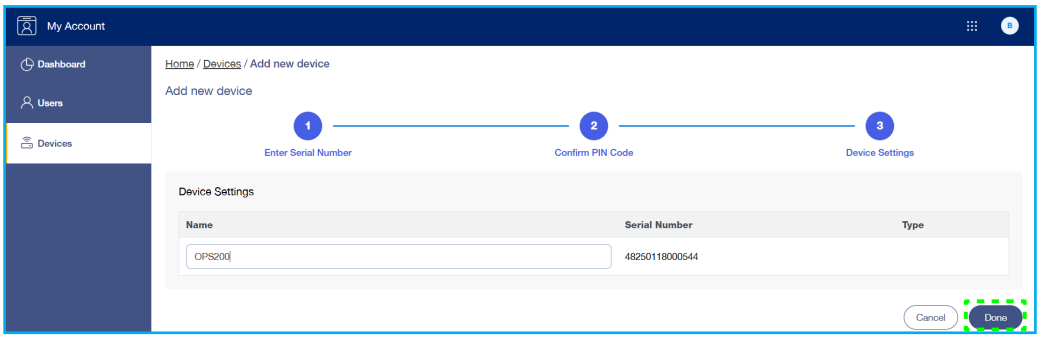
OPS Module



6. When pairing is complete, click ***Next*** in your browser.

Optoma Management Suite (OMS)™ (Continued)

7. Enter a device name and click ***Done***.

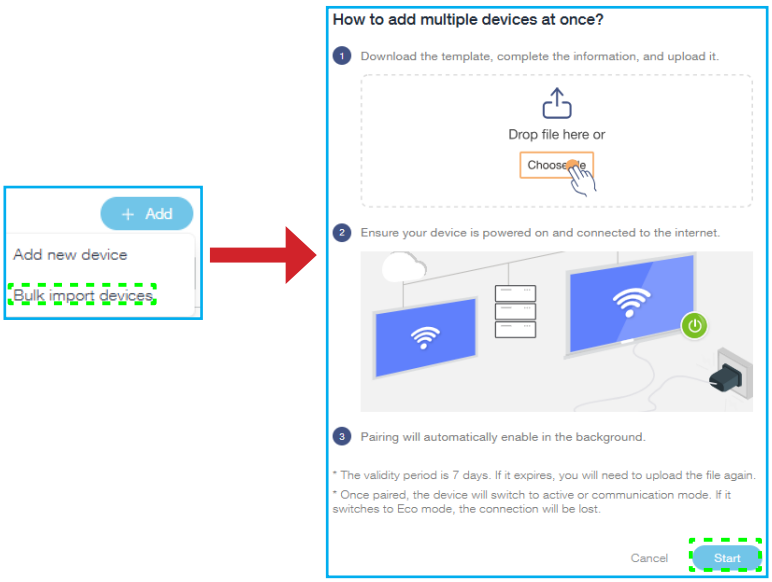


8. Select the device and then use the screen controls to view configuration history, power on/off the OPS module, enable/disable AV mute mode, mute or unmute the OPS module, select an input source, monitor the device's status, usage time, mute status, temperature, and more. To add more devices, click ***Add*** or to delete the selected device, click .



Note:

- *To add multiple devices at once, ensure that all the devices are powered on and connected to the Internet. Next, click **Add** ⇒ **Bulk import devices**. Click **Start** at the "How to add multiple devices at once?" prompt.*

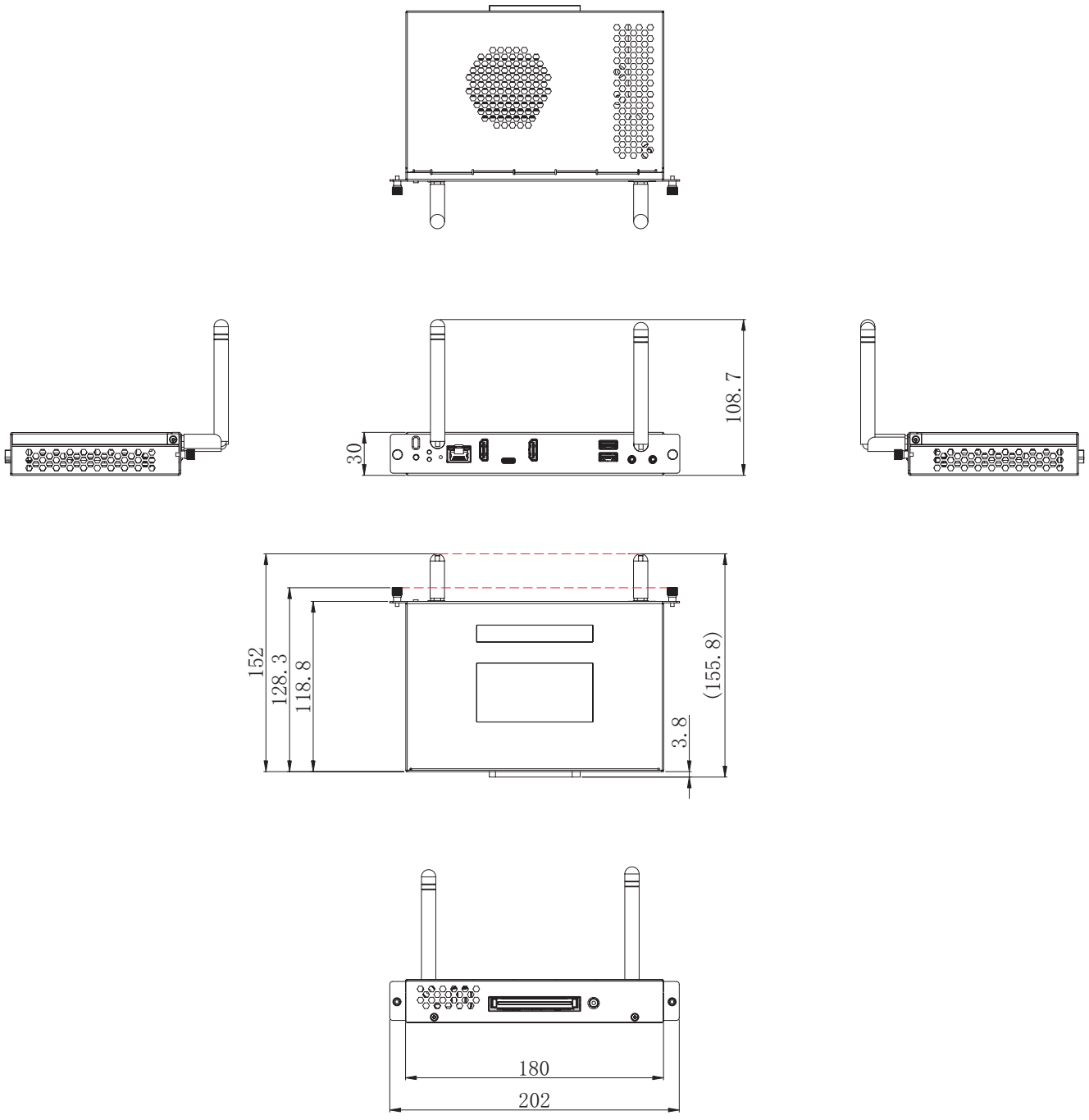


Download the template to your computer. Enter the information and finally upload the file to OMS. While adding the devices, pairing is completed automatically in the background.

- *For enhanced device management, you can group similar devices. To create a device group, click **Group** ⇒ **Add new device** (+). Then add the selected devices to the group.*

ADDITIONAL INFORMATION

Dimensions



Unit: mm

ADDITIONAL INFORMATION

Troubleshooting

If you experience a problem with your device, please refer to the following information. If a problem persists, please contact your local reseller or service center.

No picture or sound.

- Make sure all signal and power connections are properly connected.
- Make sure the correct input mode is selected. Refer to the “**Shortcut Menu**” section.
- Make sure the OPS module is not turned off.
- Turn off the mute function.
- Make sure the volume is not set to the minimum level.

The OPS module automatically shuts down.

- Check whether there is a sudden power outage.

Maintenance

Proper routine maintenance can help with early fault detection and keep the OPS module looking like new.

IMPORTANT! *Before cleaning and performing any maintenance task, make sure to disconnect the OPS module from any power source.*

Clean the Front Frame

Use a dry, soft, lint-free cloth to wipe the front frame.

ADDITIONAL INFORMATION

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