

Interactive Flat Panel



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SAFETY

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

Safety Instructions

- Only use Optoma-approved attachments/accessories.
- Do not block any ventilation openings. To ensure reliable operation of the device and to protect from overheating, it is recommended that the device be installed in a location and manner that does not block ventilation. Do not put the device in an enclosure such as a book case or a cabinet that restricts air flow.
- Do not use the device near water or moisture. To reduce the risk of fire and/or electric shock, do not expose the device to rain or moisture.
- Do not install near heat sources such as radiators, heaters, stoves or any other apparatus, such as amplifiers, that emit heat.
- Do not let objects or liquids enter the device. They may touch dangerous voltage ports or short out parts that could result in fire or electric shock.
- Do not place the device on an unstable surface. The device may fall over, resulting in injury or damage to the device.
- Do not setup the device in places where it might be subject to vibration or shock.
- Do not use any hard or sharp object to operate the touch screen.
- Do not use the device if it has been physically damaged or abused. Physical damage/abuse would be (but not limited to):
 - The device has been dropped.
 - Power supply cord or plug has been damaged.
 - Liquid has been spilled on the device.
 - The device has been exposed to rain or moisture.
 - Something has fallen into the device or something is loose inside.
- Do not attempt to service the device yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the device for repair.
- Disconnect the power plug from AC outlet if the device is not being used for a long period of time.
- Remove the batteries from the remote control before storage. If the batteries are left in the remote for long periods, they may leak.
- Turn off and unplug the power plug from the AC outlet before cleaning the device.
- Use a soft dry cloth to clean the display housing. Do not use abrasive cleaners, waxes or solvents to clean the device.
- See the device enclosure for safety related markings.
- The device should only be repaired by authorized service personnel.

Copyright

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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(B) / NMB(B).

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à 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.

ENERGY STAR



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

This product qualifies for ENERGY STAR in the “Standard mode” setting and this is the setting in which power savings will be achieved. Changing the Standard mode picture settings or enabling other features will increase power consumption that could exceed the limits necessary to qualify for ENERGY STAR rating. Refer to EnergyStar.gov for more information on Energy Star program.

Low Blue Light and Eye Health

What is Low Blue Light Technology?

Low Blue Light Technology reduces the blue-light component emitted by your product. The harm of blue light to human eyes is mainly manifested in the pathological harm of eyes and the harm of human body rhythm, which lead to myopia, cataract and macular disease.

Low light certification: it is a certification project to evaluate whether the display equipment meets the requirements of photobiosafety and Bluelight radiation safety.

Note: To meet TUV Rheinland of low blue light certificate, the display setting should be:

- Display Mode is Presentation
- Color Temperature is Standard
- Low Blue Light is 100.

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.

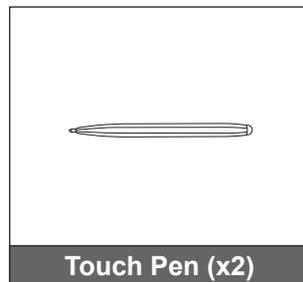
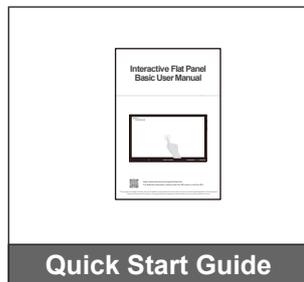
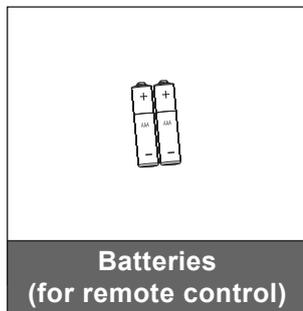
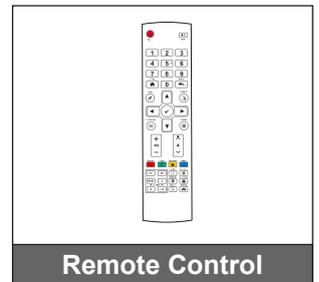
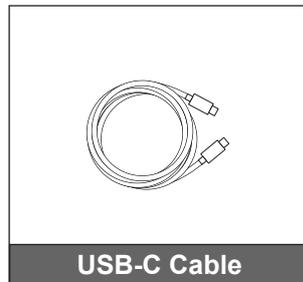
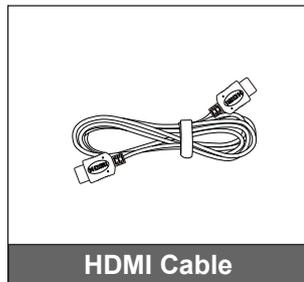
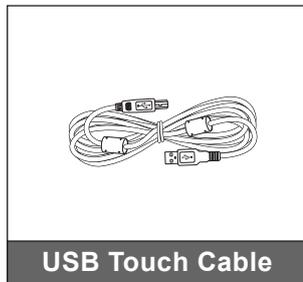
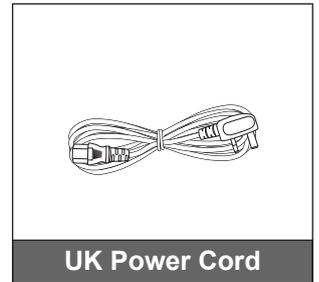
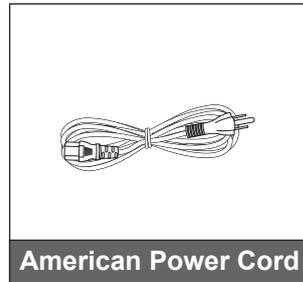
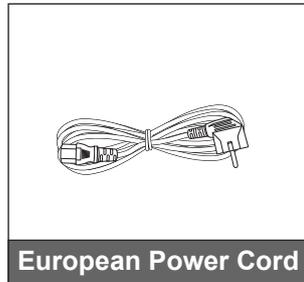
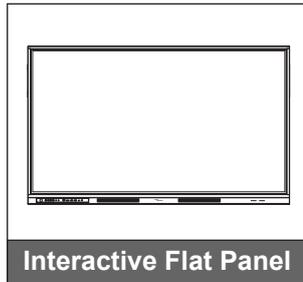
INTRODUCTION

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.

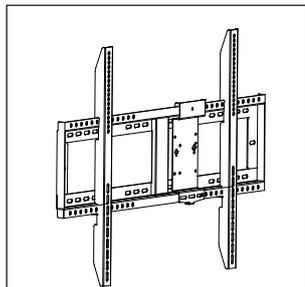
Standard Accessories



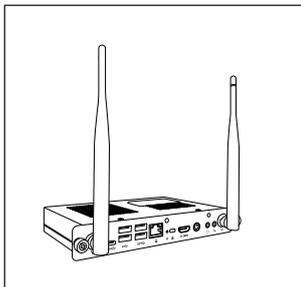
Note: For warranty information, please visit www.optoma.com.

INTRODUCTION

Optional Accessories



Wall Mount with PC
Vesa Bracket (9060F/
OWMFP01/05)



OPS Slot-in PC
(options available)



Mobile Stand



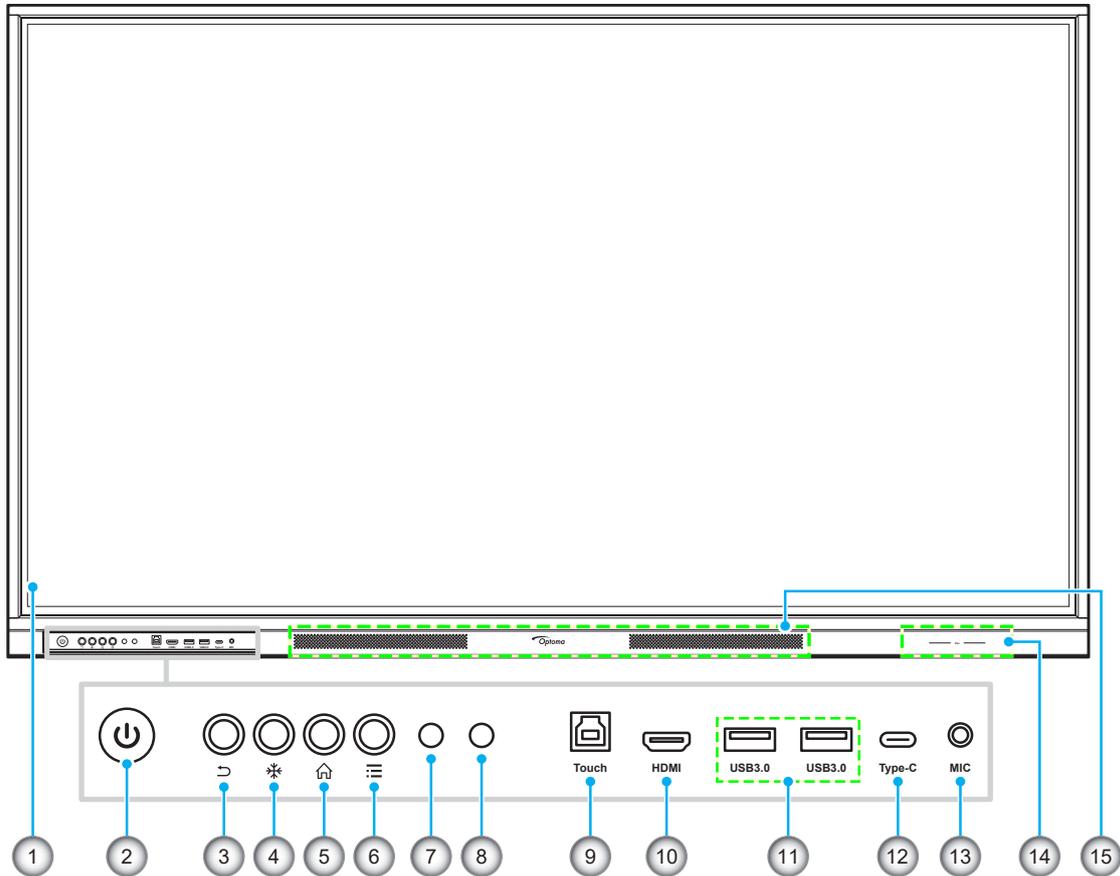
Wi-Fi Module
(Regional)

Note: Available accessory model(s) may vary by region. Please consult your local representative.

INTRODUCTION

Product Overview

Front View



No.	Item
1.	Touch screen
2.	Power key with LED indicator
3.	Back key (return to previous)
4.	Freeze key
5.	Home key
6.	OSD menu key
7.	IR receiver
8.	Light sensor

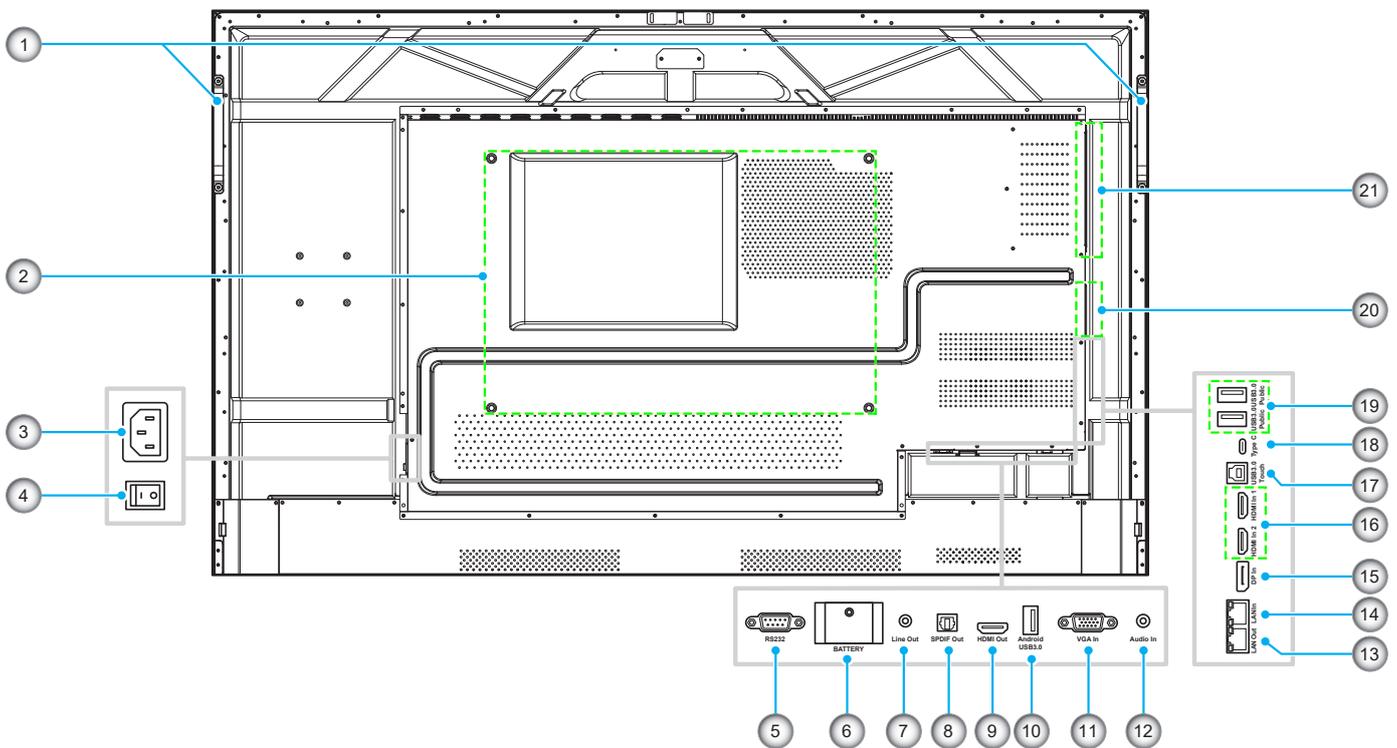
No.	Item
9.	Touch USB port
10.	HDMI 2.0 Front port
11.	USB 3.0 ports (x2)
12.	USB Type-C port (65W PD*)
13.	Microphone in port
14.	Touch pen placement
15.	20W speakers (x2)

Note:

- (*) USB-C port supports power delivery up to 100W without OPS. If OPS is installed to the IFP, then the USB-C port supports power delivery 65W.
- When recording while using a source other than Android, always connect the external USB devices, for example the camera, to the Android USB port on the rear side of the IFP. If you connect to the non-embedded USB port, image and sound will not be recorded.

INTRODUCTION

Rear View



No.	Item
1.	Handles (x2)
2.	Mounting holes for wall mount
3.	AC In
4.	Power Switch
5.	RS232 In
6.	Lithium Battery(3*)
7.	Line Out
8.	SPDIF Out
9.	HDMI Out (1*)
10.	Android USB 3.0
11.	VGA In

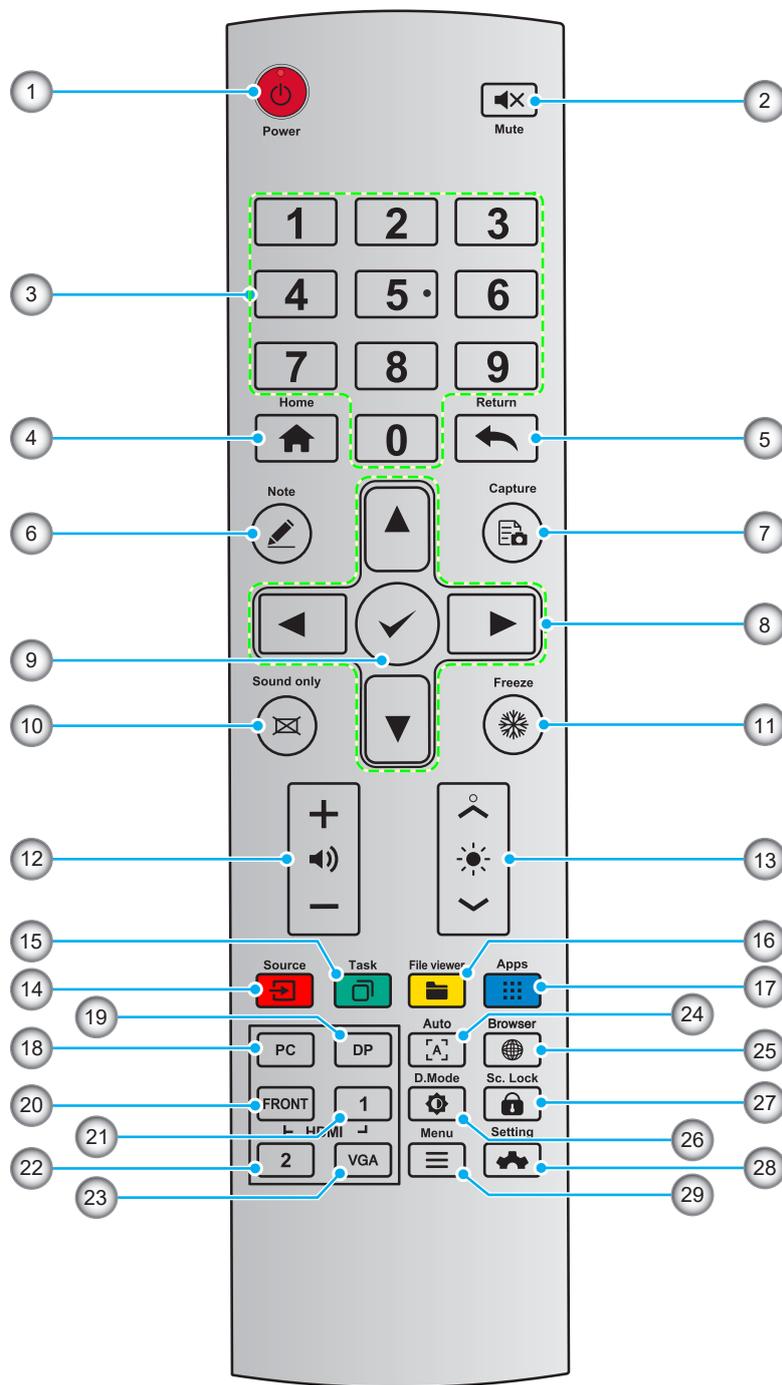
No.	Item
12.	Audio In
13.	LAN Out
14.	LAN In
15.	DP In
16.	HDMI In 2 / HDMI In 1
17.	USB 3.0 Touch
18.	USB Type-C In (PD 15W(2*))
19.	USB 3.0 x2
20.	Wi-Fi dongle slot
21.	OPS slot

Note:

- Side USB 3.0 ports are full channel USB ports. USB ports can be used irrespective of the chosen input source.
- (1*) 4K2K compatible HDMI distributor.
- (2*) USB type-C port supports DisplayPort 1.2 and power delivery (15W).
- When recording while using a source other than Android, always connect the external USB devices, for example the camera, to the Android USB port on the rear side of the IFP. If you connect to the non-embedded USB port, image and sound will not be recorded.
- (3*) Supplies power to the system clock while the IFP is not connected to the power source.

INTRODUCTION

Remote Control



No.	Button	Description
1.		Power On/Off
2.		Mute/Unmute
3.	0-9	Numeric Input Keys
4.		Return to Home Screen (Android)
5.		Back / Return to previous / Exit

INTRODUCTION

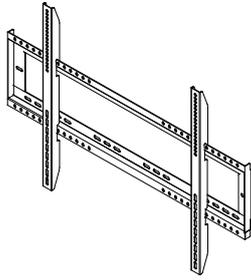
No.	Button	Description
6.		Launch the Whiteboard App
7.		Take a Screenshot
8.		Up/Down/Left/Right
9.		Confirm/OK
10.		Enable Sound Only Mode
11.		Freeze the Current Screen, Click Again to Exit Freeze Function
12.		Adjust the Sound Volume
13.		Adjust the Brightness (10 to 255)
14.		Open the Input Source Menu
15.		View Currently Running Applications
16.		Open the File Manager
17.		View all Pre-installed Applications
18.	PC*	Switch Source to Internal PC (OPS Slot)
19.	DP	Switch Source to Display Port
20.	HDMI FRONT	Switch Source to HDMI Front
21.	HDMI 1	Switch Source to HDMI 1
22.	HDMI 2	Switch Source to HDMI 2
23.	VGA	Switch Source to VGA
24.		Autocorrection Screen Display (For VGA Signal Source)
25.		Open the Browser Application
26.		Toggle Display Backlight Mode
27.		Enable/Disable the Screen Lock Function
28.		Open the System Settings
29.		Open the External Source Menu

Note: (*) This function only works if OPS is installed into the OPS slot.

SETUP AND INSTALLATION

Wall Mounting Installation

Use only an Optoma-approved optional wall mount kit (available separately). Kit will include the following items:



Dual mounting brackets and wall mount



Screw A (x4)



Screw B (x8)



Screw C (x2)



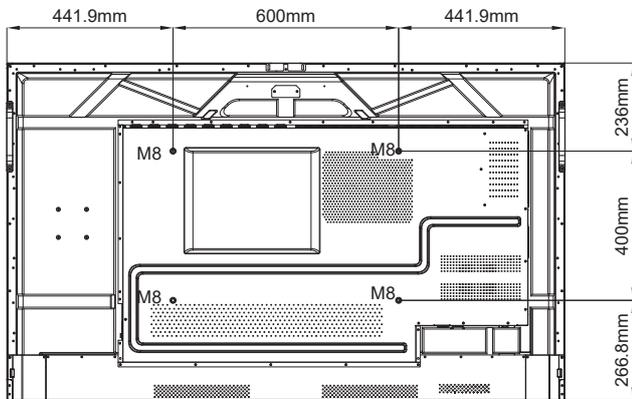
Anchor (x8)



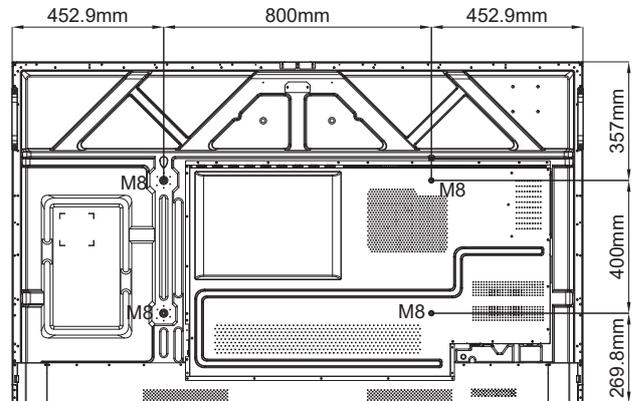
Washer (x8)

Wall Mount Specifications

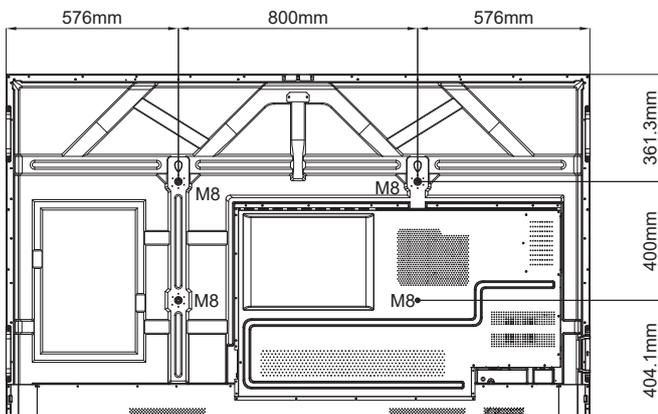
Model	VESA Grid	Screw Type & Length
65-inch	600 x 400 mm	M8*25L
75-inch	800 x 400 mm	M8*25L
86-inch	800 x 400 mm	M8*25L



65-inch



75-inch



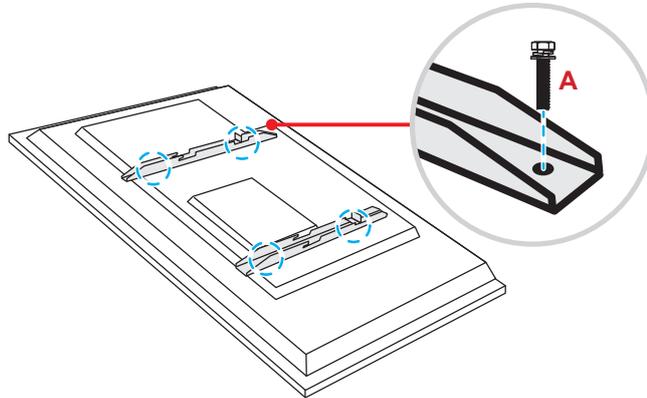
86-inch

SETUP AND INSTALLATION

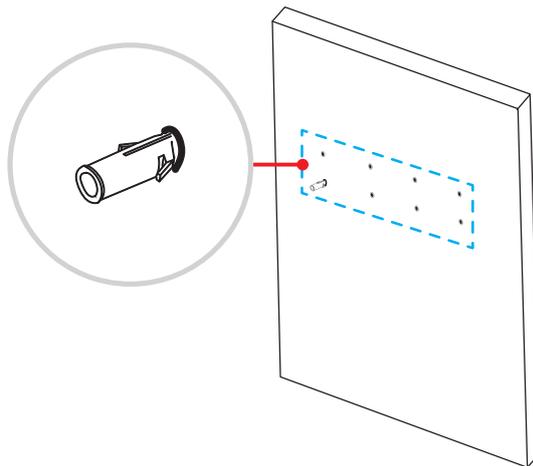
Wall Mounting Installation (Continued)

To mount the IFP on the wall, complete the following steps:

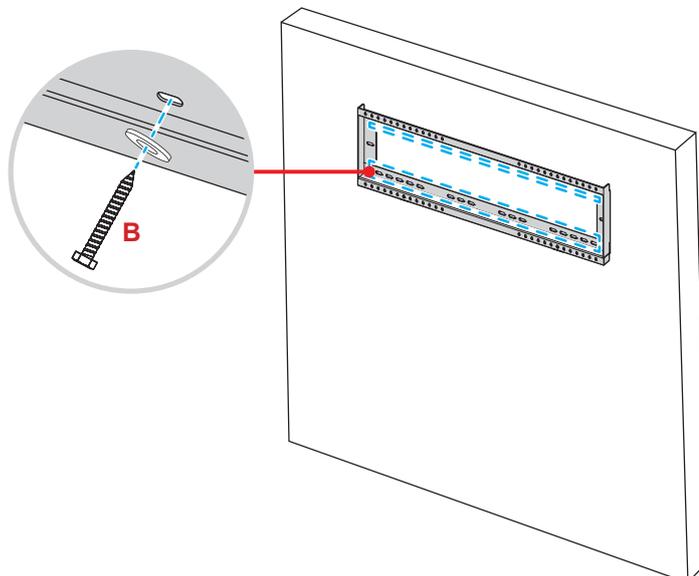
1. Install the dual mounting brackets on the rear of the IFP. Then secure the brackets with four screws (A).



2. Drill eight small holes on the mounting location and insert the anchors into the holes.



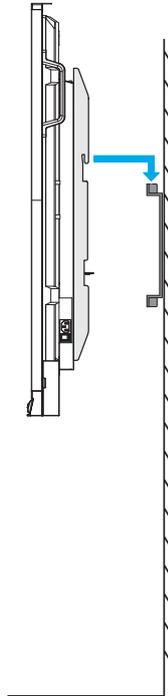
3. Position the wall mount on the wall, then secure the wall mount with eight screws (B) through the washers into the installed anchors on the wall.



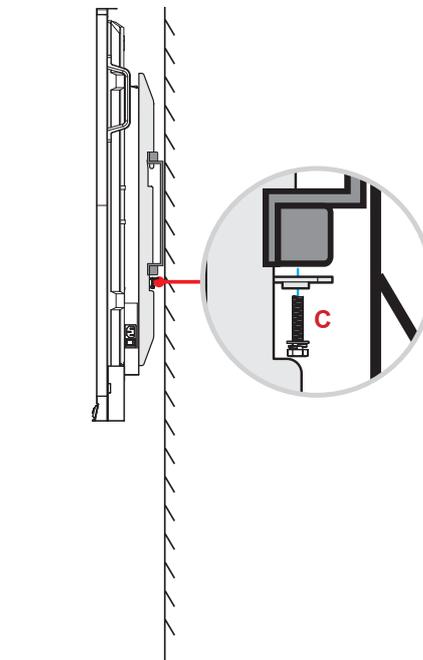
SETUP AND INSTALLATION

Wall Mounting Installation (Continued)

4. Align and hook the dual mounting brackets to the wall mount.



5. Secure the dual mounting brackets and the wall mount with two screws (C).



Note:

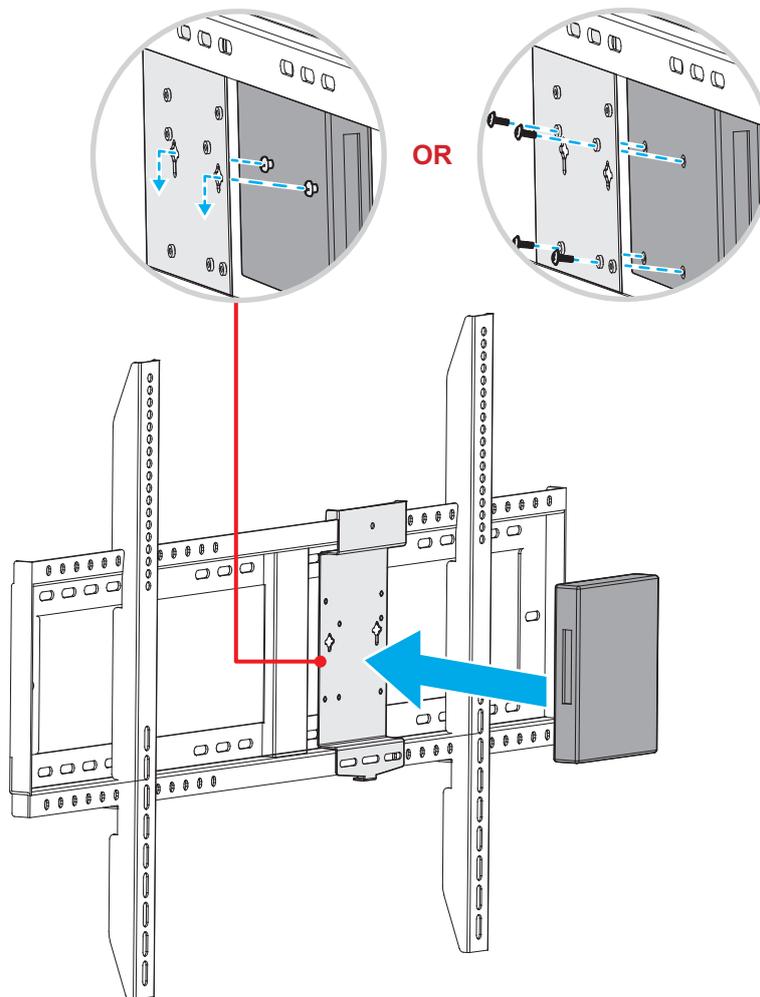
- *Maximum wall mount kit load capacity: 160kg (352lbs).*
- *The wall mount should be installed into a concrete wall to ensure a secure installation. If concrete wall is not available, we recommend that a stand be used instead. Please refer to page 18.*
- *Screws must be tightly secured; however, to avoid damage to the mounting brackets, wall mount, or IFP, do not overtighten the screws.*
- *The installation should only be performed by qualified technicians. Improper installation may cause the IFP to fall or malfunction.*
- *Please note that damage resulting from incorrect installation will void the warranty.*

SETUP AND INSTALLATION

Installing an External Mini Computer

Install the mini PC bracket on the rear side of the wall mount, then complete one of the following to install the mini computer:

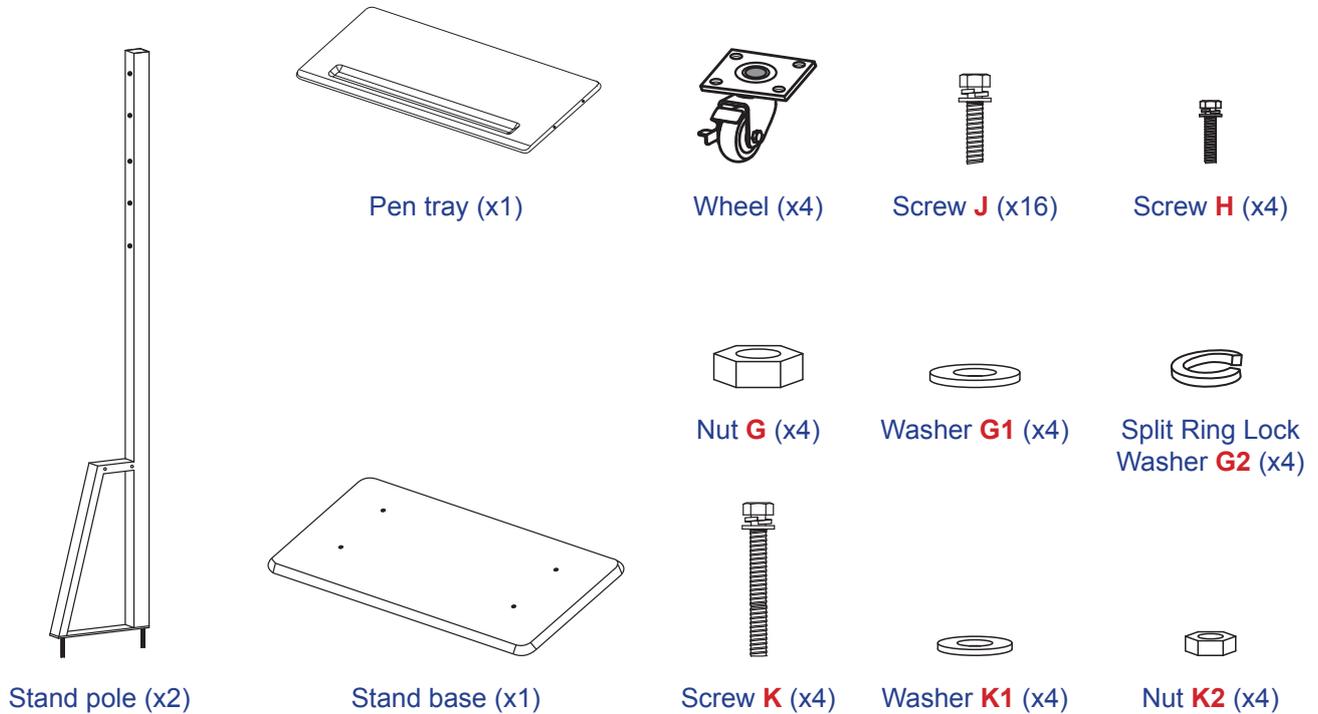
- Install the screws onto the mini computer, then align and hook the mini computer to the mini PC bracket.
- Align and install the mini computer to the mini PC bracket. Then secure it with four screws.



SETUP AND INSTALLATION

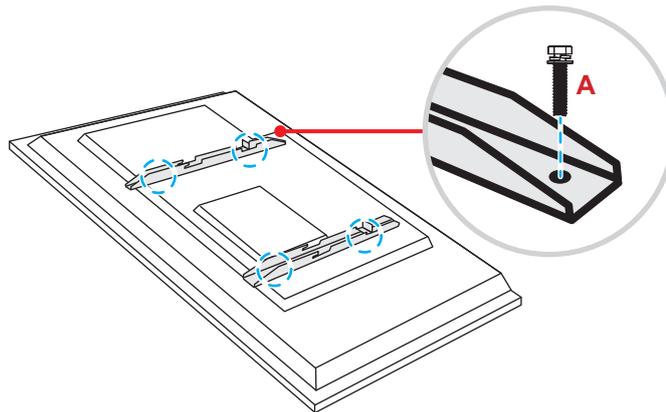
Stand Mounting Installation (Optional)

The stand mount kit includes the following items:



To mount the IFP on the stand, complete the following steps:

1. Install the dual mounting brackets on the rear of the IFP. Then secure the brackets with four screws (A).

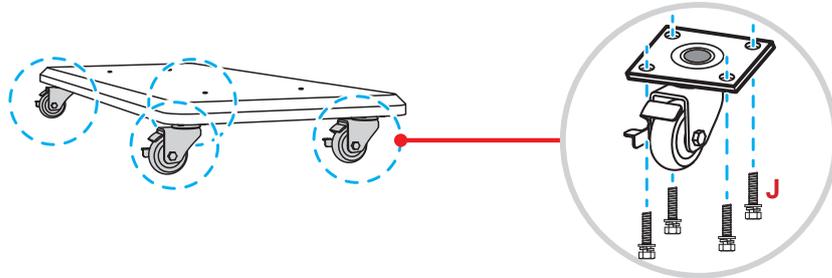


Note: Dual mounting brackets, wall mount, and screws (A) are included in the wall mount kit. Refer to “Wall Mounting Installation” on page 14.

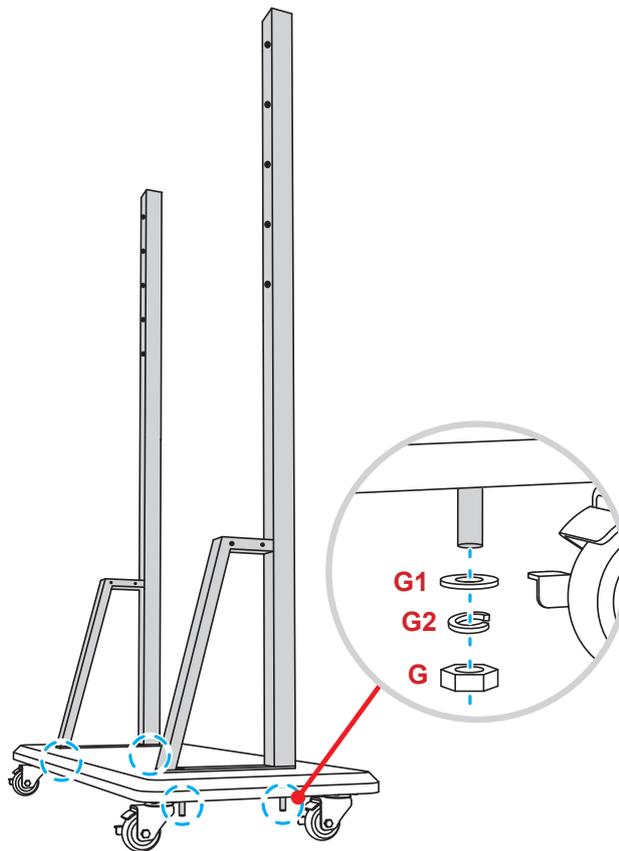
SETUP AND INSTALLATION

Stand Mounting Installation (Continued)

2. Flip the stand base so that you can see the screw holes for the wheel, then install the wheel onto its slot and secure it with four screws (**J**).
Repeat the same procedure to install the remaining three wheels.



3. Place the stand base on a stable surface, then install the stand pole onto its slot and secure both standoffs with two nuts (**G**) through the washers (**G2** and **G1**).
Repeat the same procedure to install the other stand pole.



SETUP AND INSTALLATION

Stand Mounting Installation (Continued)

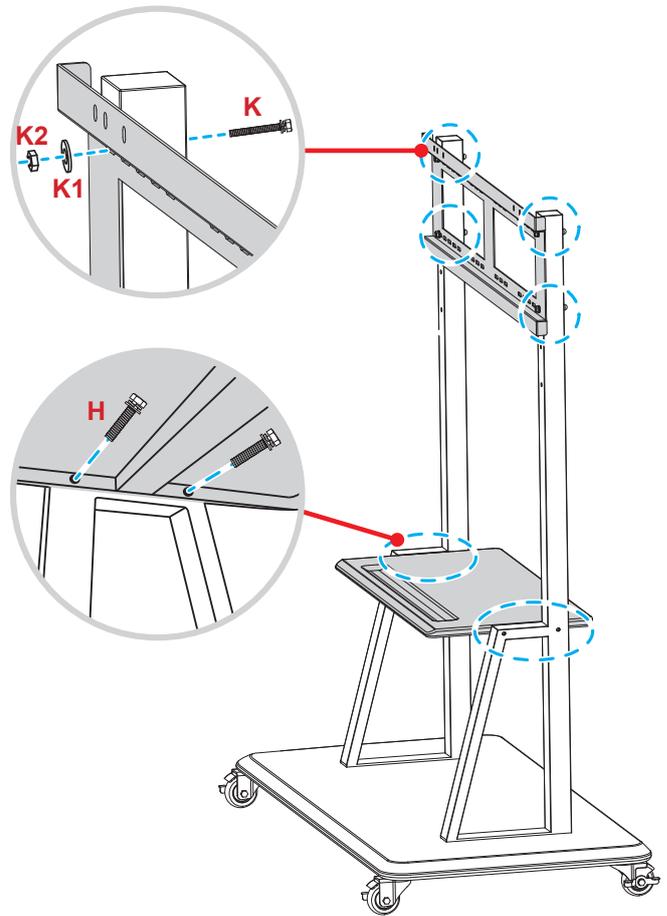
4. Align the pen tray with the screw holes on the middle part of the poles, then secure the pen tray with four screws (**H**).

5. Install the wall mount on the upper part of the poles, then insert the screws (**K**) through the screw holes from the rear side of the poles.

*** Please Note:**

- a) For safest use and to avoid risk of tipping, do not mount at highest point on ST01 / ST05 stand.
- b) Do NOT stand underneath ST01 / ST05 stand when adjusting mount height.

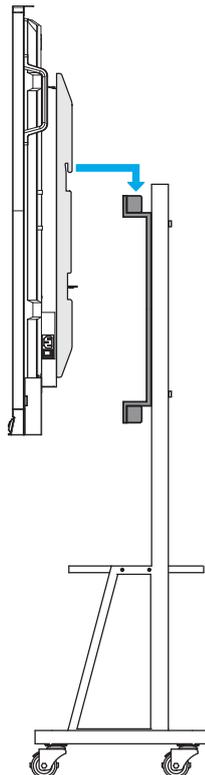
6. Place the washers (**K1**) and the nuts (**K2**) into the screws, then tighten the nuts (**K2**) to secure the wall mount in place.



7. Align and hook the dual mounting brackets to the installed wall mount on the stand poles.

*** Please Note:**

Do not operate or place the ST01 / ST05 stand on a sloped surface as this can cause rolling and/or result in injury or harm to self and others.



SETUP AND INSTALLATION

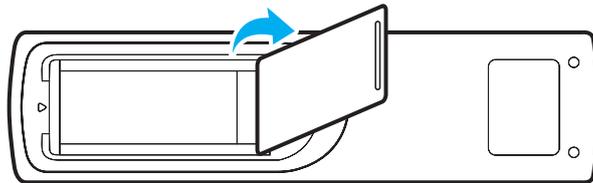
Using the Remote Control

Installing/Replacing the Remote Control Batteries

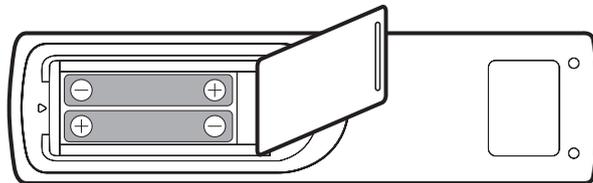
Two (2x) AAA size batteries are supplied for the remote control.

IMPORTANT! Replace only with the same or equivalent type batteries.

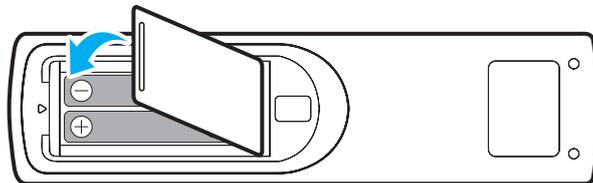
1. Remove the cover of the battery compartment.



2. Insert the two batteries with correct polarity (+/-) as shown inside the battery compartment.



3. Replace the cover.



CAUTION

Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.

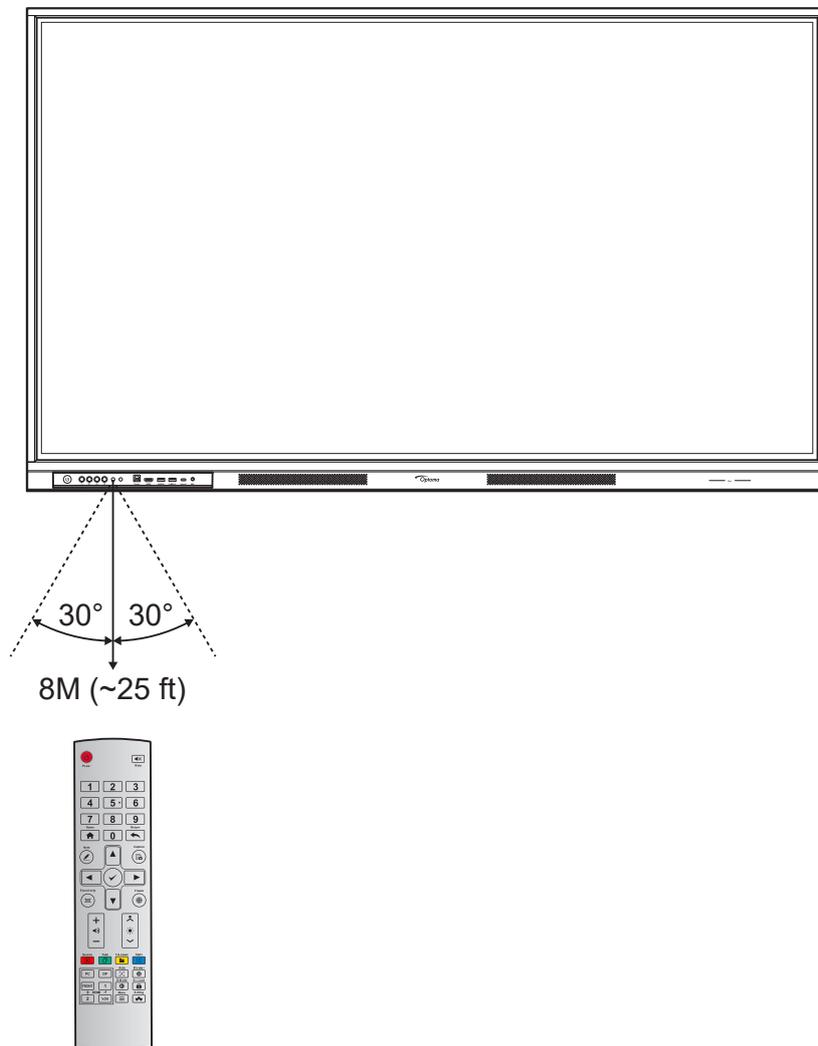
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are depleted. Chemicals that leak from batteries that come in contact with skin can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
- The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
- If you will not be using the remote control for an extended period of time, remove the batteries.
- When you dispose of the batteries, you must obey the law in the relative area or country.

SETUP AND INSTALLATION

Remote Control Operating Range

When using the remote control, make sure to point it within $\pm 30^\circ$ to the IR receiver on the IFP. The distance between the remote control and the IR sensor window should not be longer than 8 meters (~ 25 feet).

- Make sure that there are no obstacles between the remote control and the IR sensor window on the IFP that might obstruct the infra-red beam.
- Make sure the IR transmitter of the remote control is not being used where direct sunlight or light from fluorescent lamps can interfere with the infra-red beam.
- If the remote control is close to Inverter-Type fluorescent lamps, it might cause intermittent service issues.
- If the remote control and the IFP are too close together, the remote control may not function or experience intermittent issues.



SETUP AND INSTALLATION

Connections

Connecting to Power

1. Connect one end of the power cord to the AC-in socket on the IFP.
2. Connect the other end of the power cord to a power outlet or a power supply.
3. Set the **Power** switch to ON (I). The IFP will automatically enter standby mode.

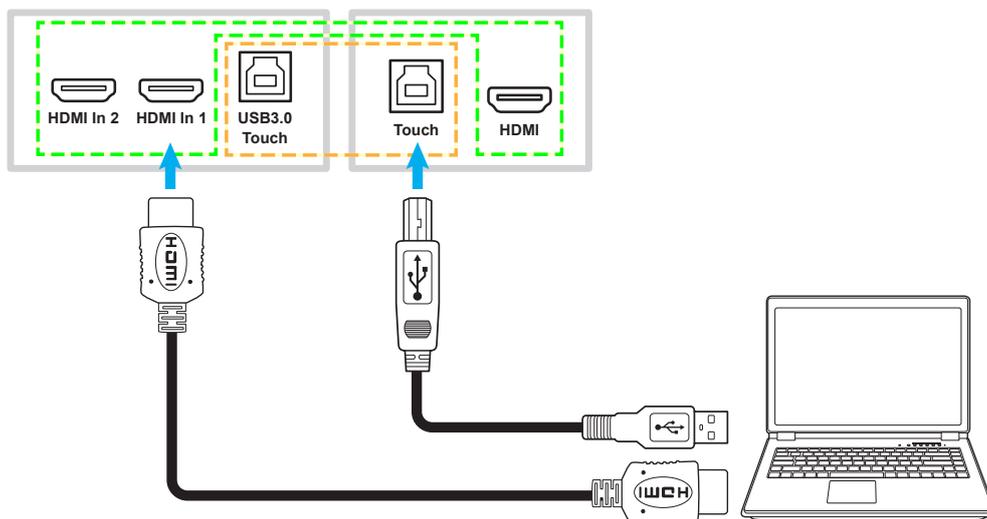


Connecting External Devices

IMPORTANT! To use the touch screen function, make sure to connect one end of the USB cable to the USB type-B Touch or USB 3.0 Touch port on the IFP and the other end of the cable to the USB type-A port on your device.

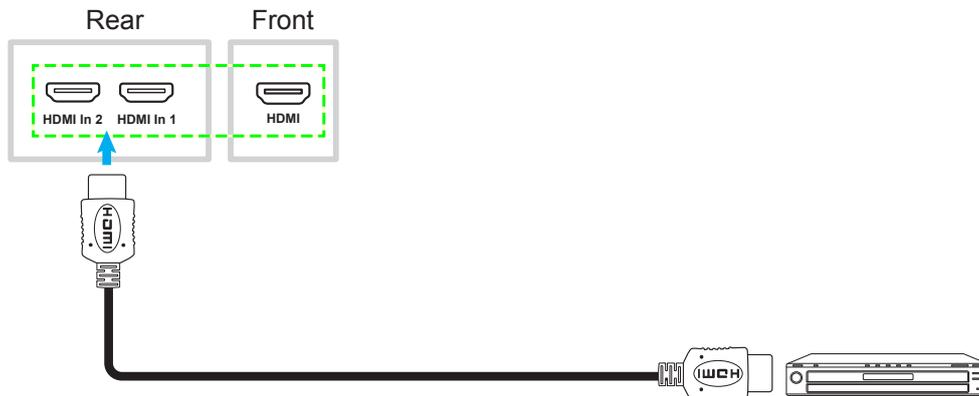
HDMI input connection

- Connect your computer to the IFP using an HDMI cable.



SETUP AND INSTALLATION

- Connect your video source to the IFP using an HDMI cable.

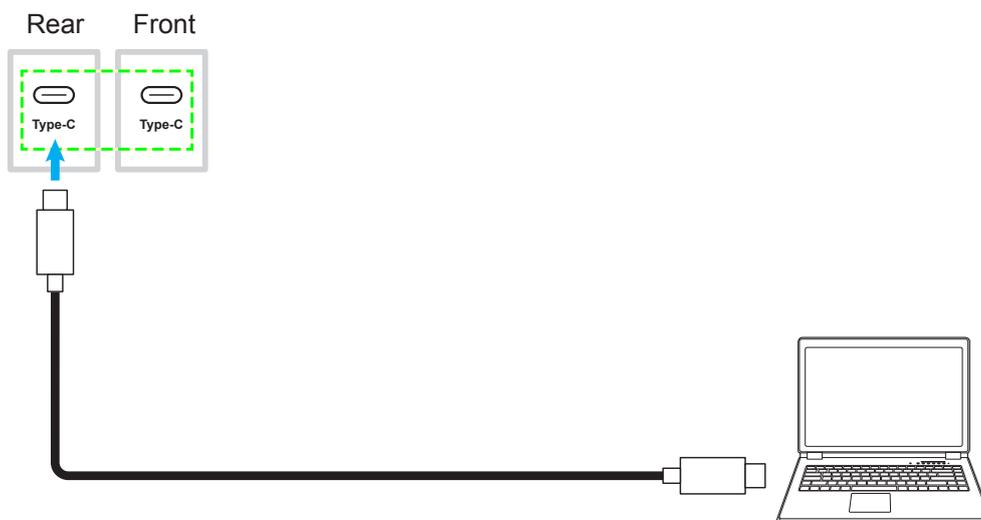


USB type-C input connection

Connect your computer to the IFP using a USB type-C cable.

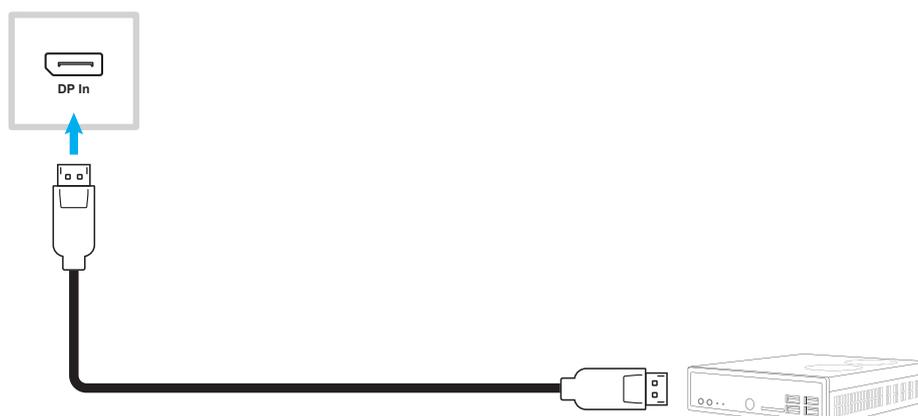
Note:

- *USB type-C can be used to transmit audio, video and touch signals.*
- *Both USB type-C ports on the rear and in the front of the IFP support Network Sharing 100M.*
- *The front USB type-C port supports power delivery up to 65W (with OPS module) and the rear USB type-C port supports power delivery up to 15W.*



DisplayPort connection

Connect your electronic device to the IFP using a DisplayPort cable.



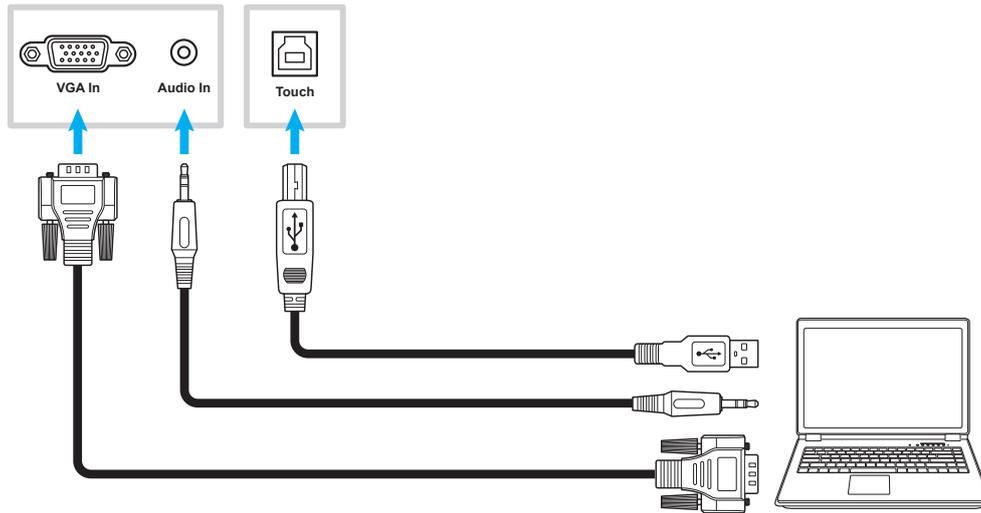
SETUP AND INSTALLATION

VGA input connection

Connect your computer to the IFP using a VGA cable.

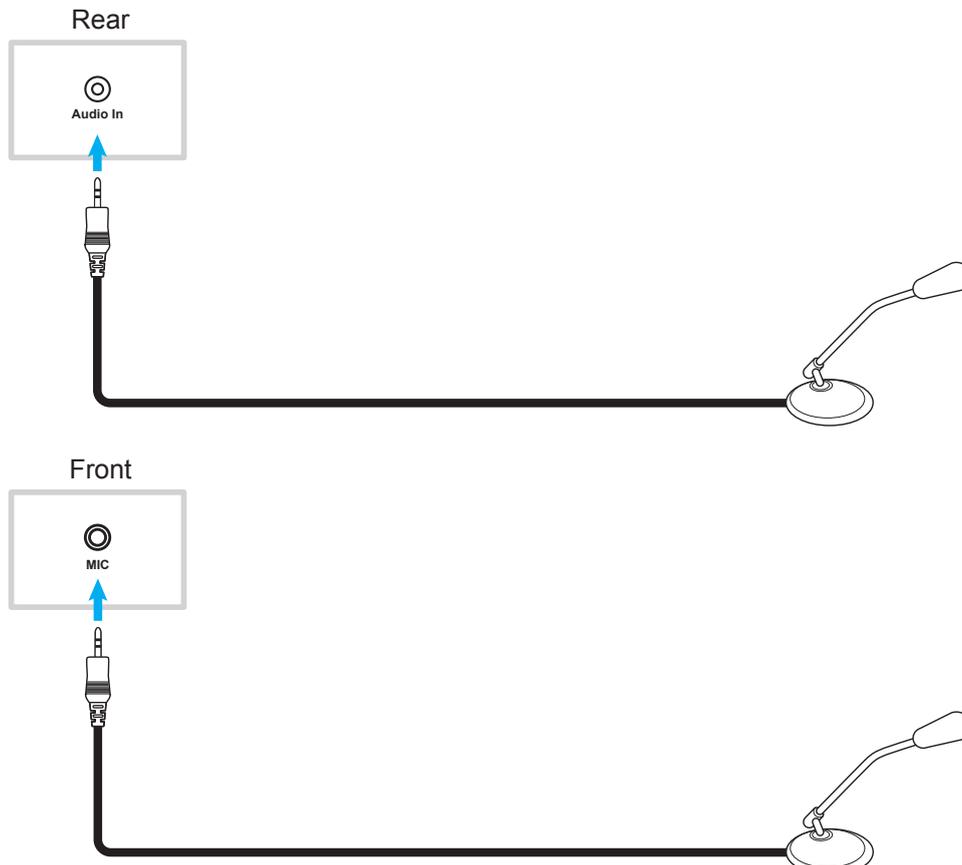
Note:

- For audio input, connect one end of an audio cable to the Audio In port on the IFP and the other end of the cable to the audio port of your computer.
- For touch function, connect one end of the USB cable to the Touch or USB 3.0 Touch port on the IFP and the other end to the USB port of your computer.



Audio input connection

Connect your external microphone to the Audio In port (rear) or MIC port (front) on the IFP.



SETUP AND INSTALLATION

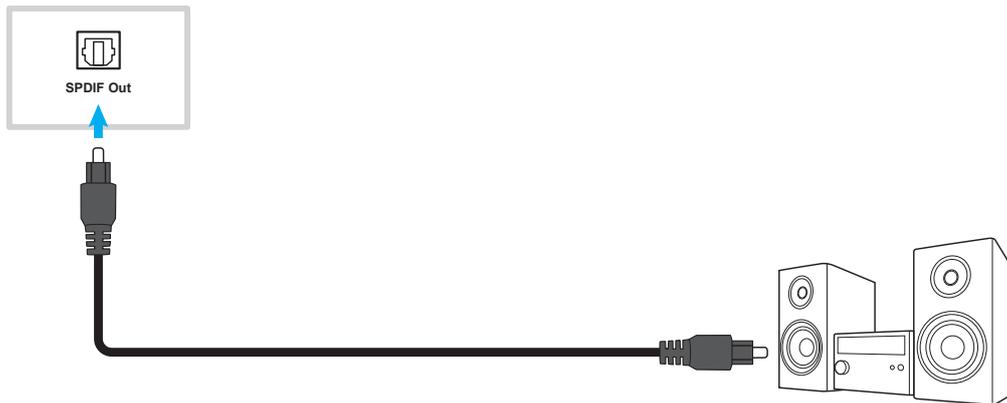
Audio output connection

Connect your external speakers to the Line Out port on the IFP.



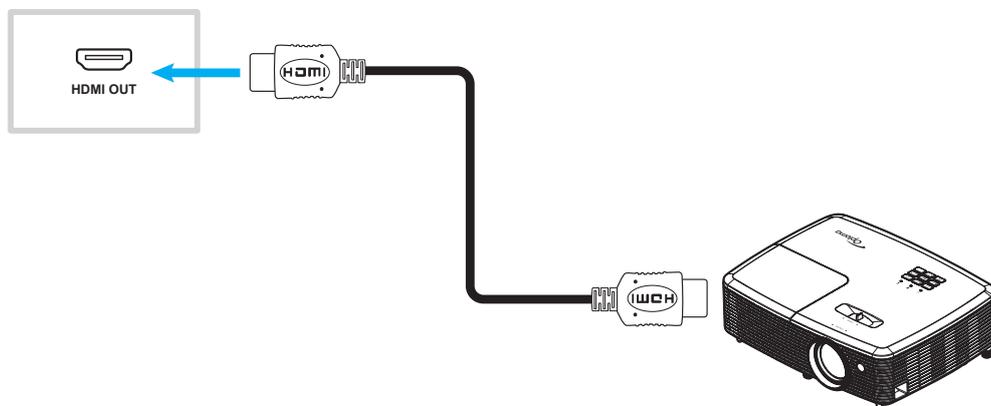
SPDIF connection

Connect your audio equipment to the IFP using an optical SPDIF cable.



HDMI output connection

Connect your projector or other video device to the HDMI out port on the IFP.



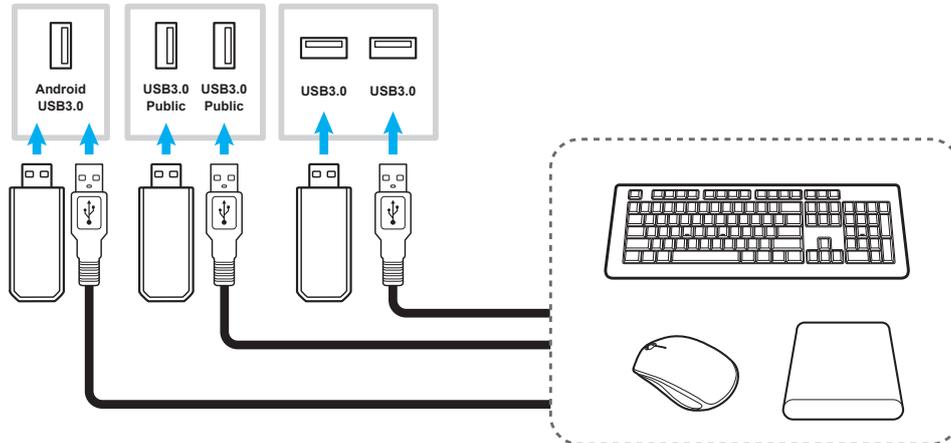
SETUP AND INSTALLATION

USB connection

Connect your USB peripheral device to the IFP using a USB cable.

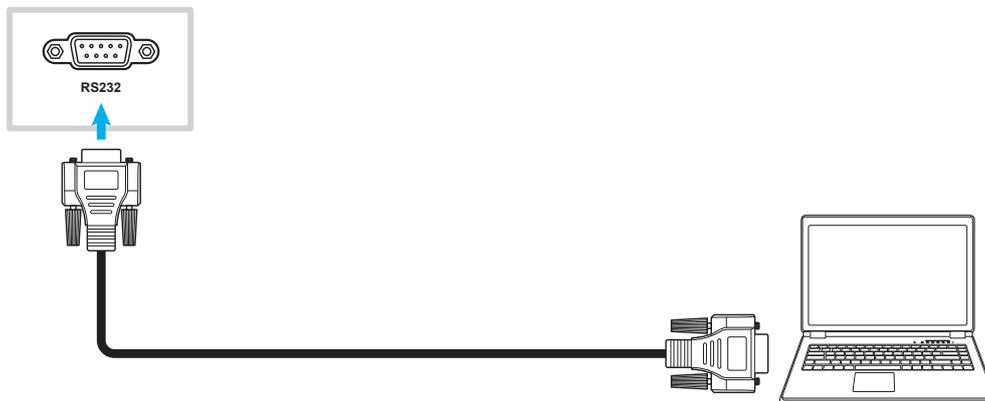
Note:

- For a USB flash drive, simply plug it into one of the available USB ports.



RS232 connection

Connect your computer to the IFP using a RS232 cable.



LAN connection

Connect your IFP to the network using an Ethernet cable.



Note: To configure network settings, refer to “Configuring Network Settings” on page 46.

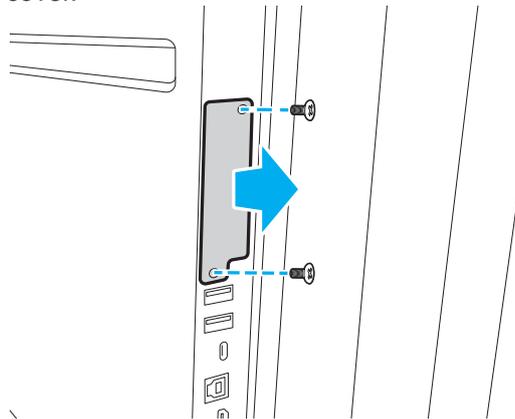
SETUP AND INSTALLATION

Wi-Fi connection

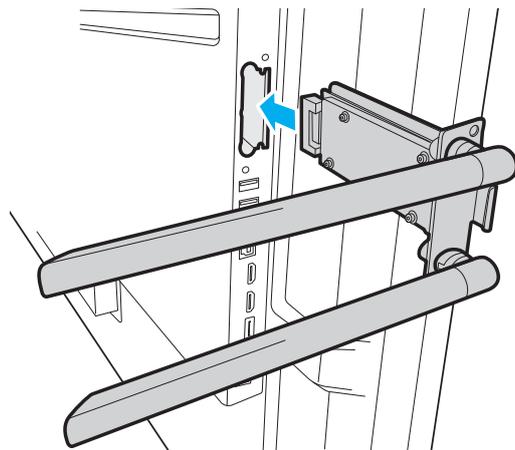
For Wi-Fi connection, you need to install a Wi-Fi dongle/module to the Wi-Fi slot on the side of the IFP. Wi-Fi dongle/module can receive the signal in an area where there is a Wi-Fi network.

To install the Wi-Fi dongle/module, complete the following steps:

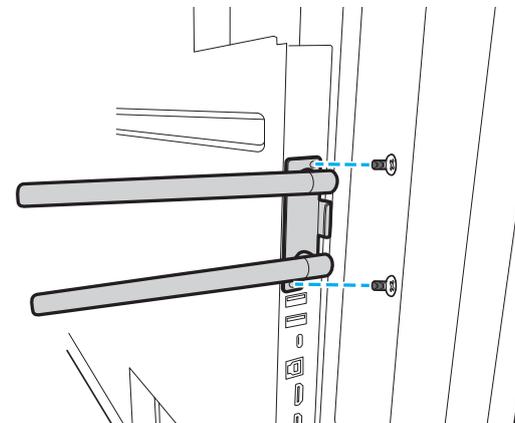
1. Remove two (2) screws from the Wi-Fi slot cover.
2. Remove the Wi-Fi slot cover.



3. Insert the Wi-Fi dongle/module into the Wi-Fi dongle/module slot of the IFP.



4. Secure the Wi-Fi dongle/module to the IFP with two (2) screws removed in Step 1.



Note: To configure Wi-Fi settings, refer to “Configuring Network Settings” on page 46.

USING THE DEVICE

Turning the Power On/Off

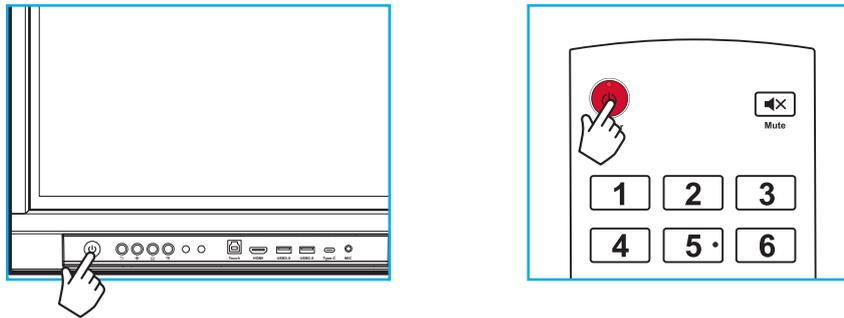
Powering On

Note: After the power cord is properly connected, make sure the **Power** switch is set to ON (I).



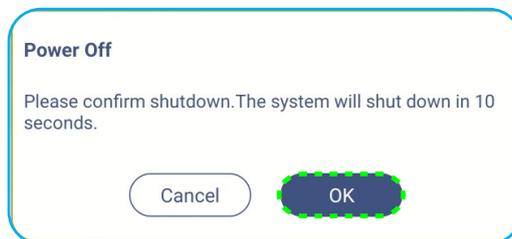
Press the **Power** button to turn on the IFP. The LED indicator light turns white, indicating it is ready to use.

Note: You can also press the  button on the remote control to turn on the IFP.



Powering Off

Press the **Power** button for 5 seconds to turn off the IFP. Press **OK** at the prompt to turn it off immediately or wait for 10 seconds until the IFP turns off automatically.



When the LED indicator light turns red, this indicates that the IFP has entered standby mode.

Note:

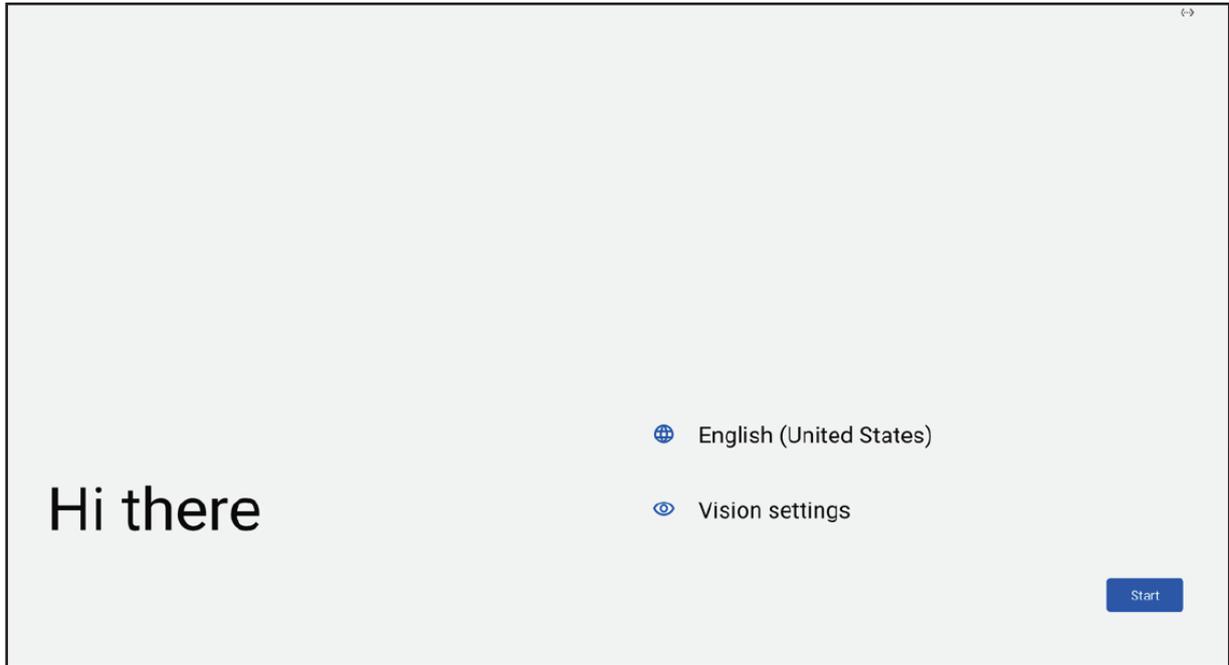
- You can also press the  button on the remote control to turn off the IFP.
- The IFP still consumes power when it is in standby mode. It is highly recommended to unplug the power cord from the power outlet if the IFP will not be used for an extended period of time.

USING THE DEVICE

Setup Wizard

The Setup Wizard will appear on the screen when you turn on your IFP 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.

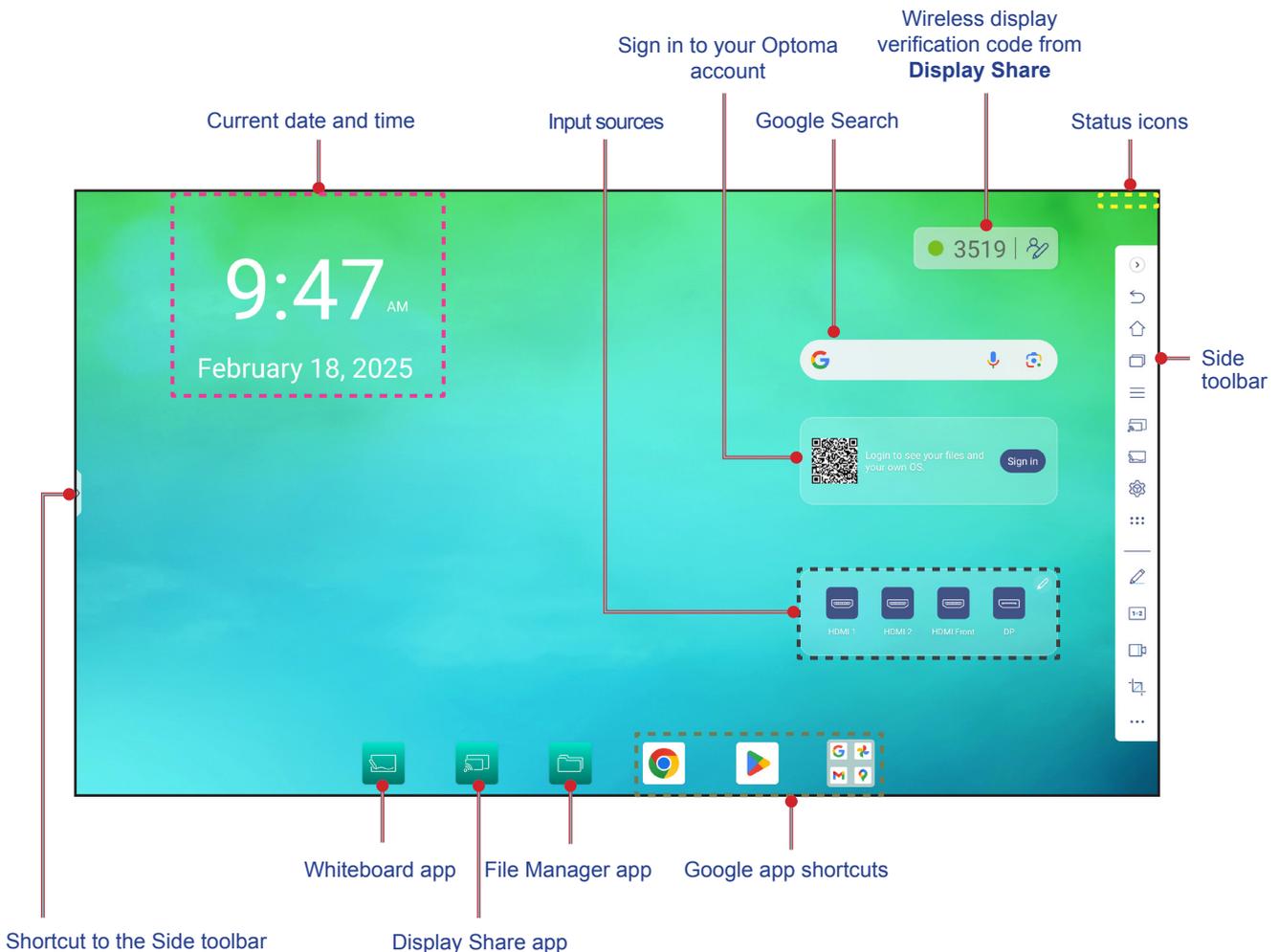
Note: *This IFP is equipped with a touch-sensitive screen. You can simply tap the touch screen to operate your IFP.*



BASIC OPERATIONS

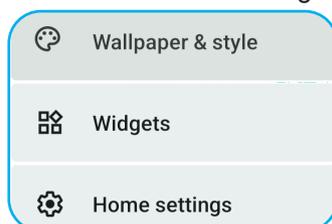
Home Screen Overview

Home screen is displayed every time you start the IFP.



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

- Swipe down from the upper edge of the screen to open the quick settings panel.
- Swipe up on the screen to view all the apps.
- Select an option: Simply tap on the desired item.
- Adjust the Home screen layout: Press and hold on an item (such as an app icon or widget), then simply drag and drop to move it to your desired spot.
- Open the **Side toolbar**: tap > or < on the left or right side of the screen.
- Press and hold anywhere on the Home screen background. Next, you can choose to modify the wallpaper & style, add/remove widgets, and configure the Home screen settings.



Note:

- Unless otherwise specified, this section describes IFP operations using touch gestures.
- You can also use the remote control to operate the IFP.

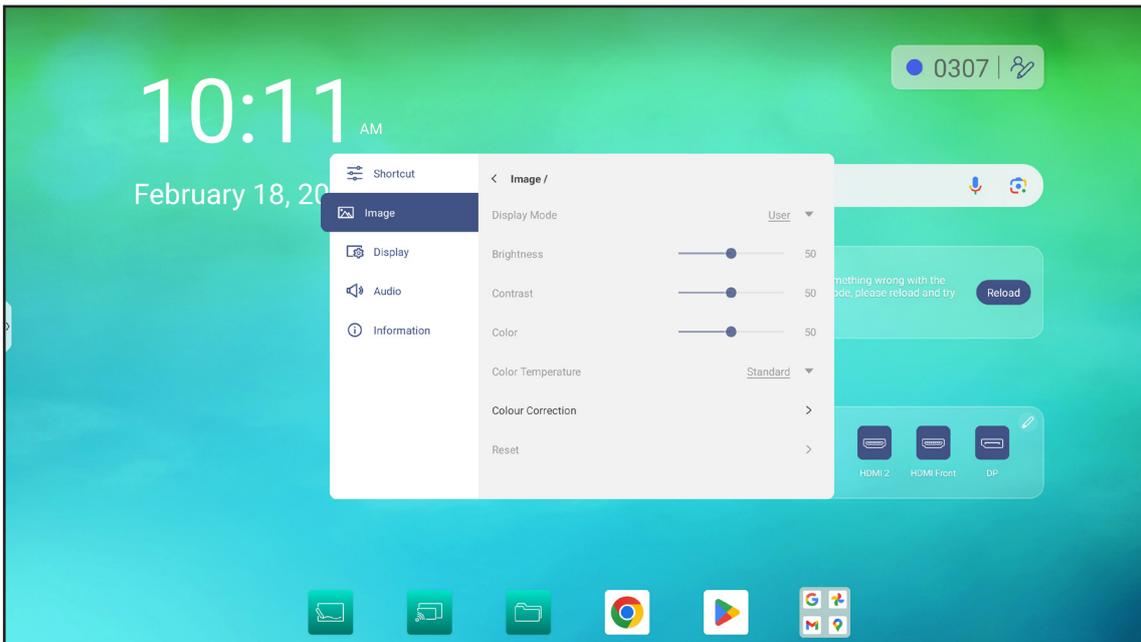
BASIC OPERATIONS

OSD Menu

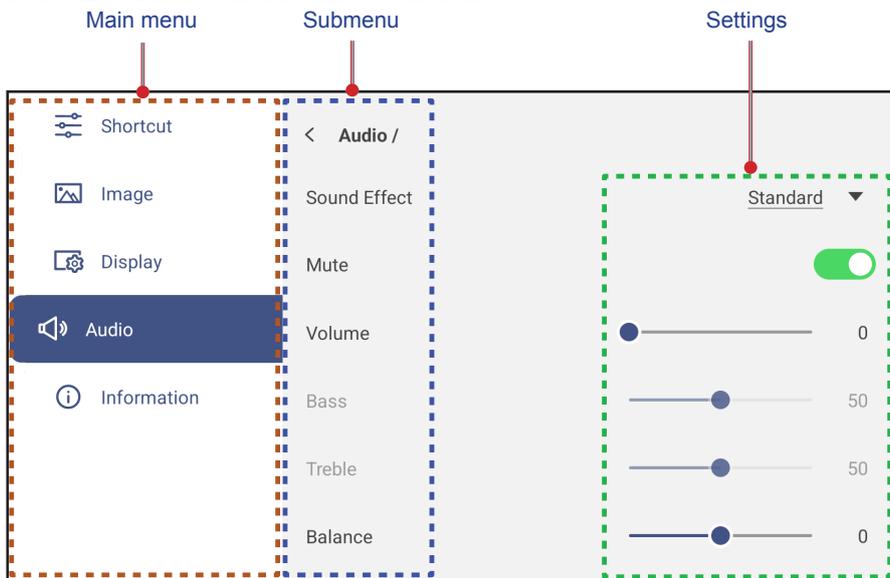
Note: Gesture and other navigation options may vary depending upon the selected navigation style chosen during the initial setup process or if modified from the Settings menu. You can adjust the basic navigation setting by going to Settings ⇒ Personalize ⇒ Gestures.

To open the OSD menu, do any of the following:

- Swipe upwards from the bottom of the screen or open the **Side toolbar** by tapping on the > or < on either side of the screen, then tap on the ≡ icon to open the OSD menu.



- Press the **Menu** or **Source** button on the remote control.

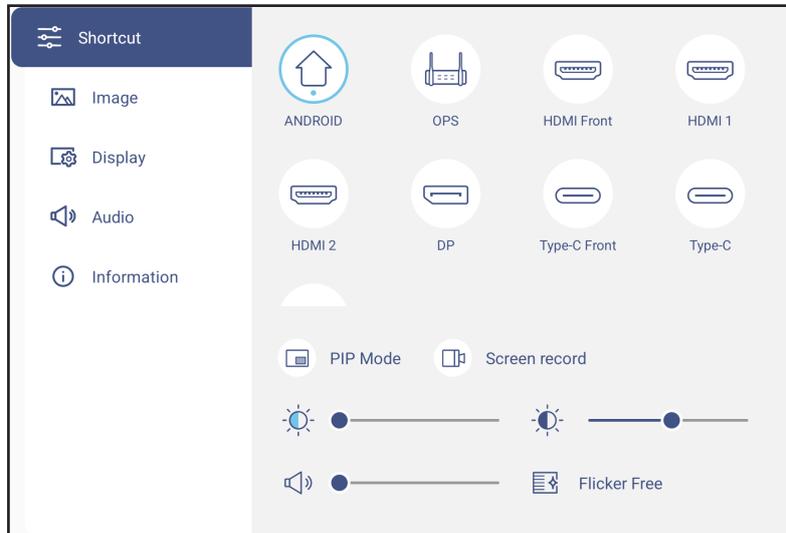


- To configure the OSD menu settings, simply touch the menu item on the screen and use the screen controls to adjust its value or set the setting. The selected menu item is highlighted in **blue**.
- To move to the previous menu, tap < or press **Return** ↩ on the remote control.
- To close the OSD menu, touch anywhere on the screen outside the menu or press **Return** ↩ continuously (if necessary) on the remote control.

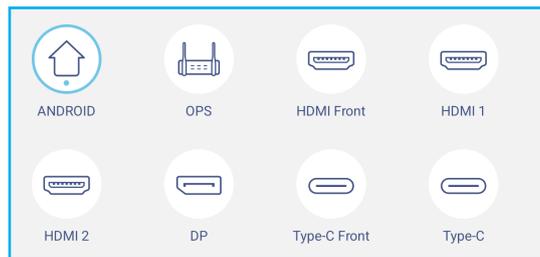
BASIC OPERATIONS

Shortcut Menu

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



- Select the input source. Those input sources that are active are marked with the DOT ● symbol.



Note:

- For more information on making connections to external devices, refer to the “Connections” section.
- The OPS option is only available if a PC module is properly installed into the OPS slot of the IFP.

BASIC OPERATIONS

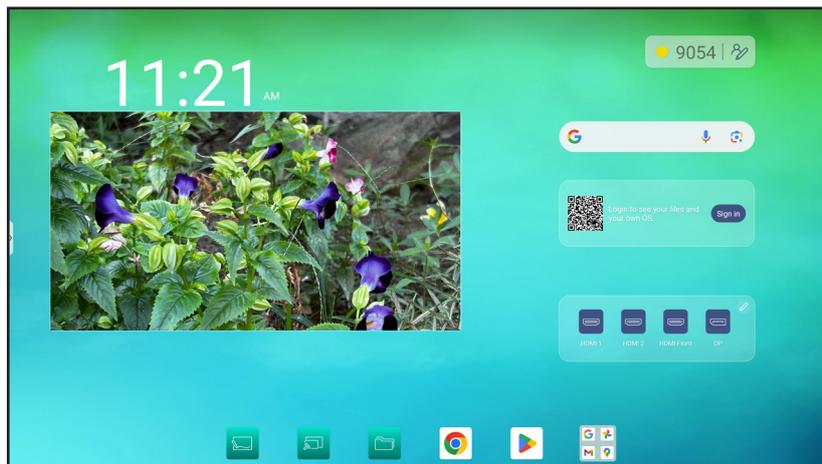
Shortcut Menu (Continued)

- Select **PIP mode** from the OSD ⇒ Shortcut menu to display two sources on the screen simultaneously.



Note:

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



Tap on the window and 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: Large, Medium, or Small.
- **Sound** to adjust the second source sound.
- To reposition the window, simply drag it to your favorite location on the screen.
- **Switch** to close PIP mode and switch to the second source.
- to close PIP mode and display the primary source only.

BASIC OPERATIONS

Shortcut Menu (Continued)

- Select **Screen record** from the OSD ⇒ Shortcut menu to record video from the panel's screen and connected camera screen (if enabled) and host live stream on multiple platforms.



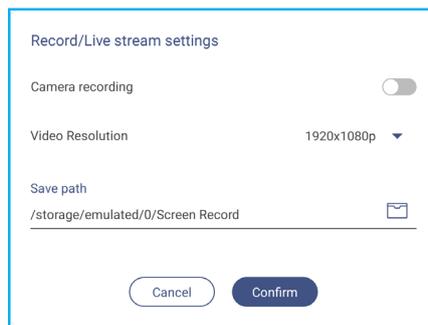
Note:

- You can drag 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, enable/disable microphone function, select the preferred video resolution, and select the path where you want the recordings to be saved. Then select **Confirm** to save the settings.



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

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



- 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.



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.

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

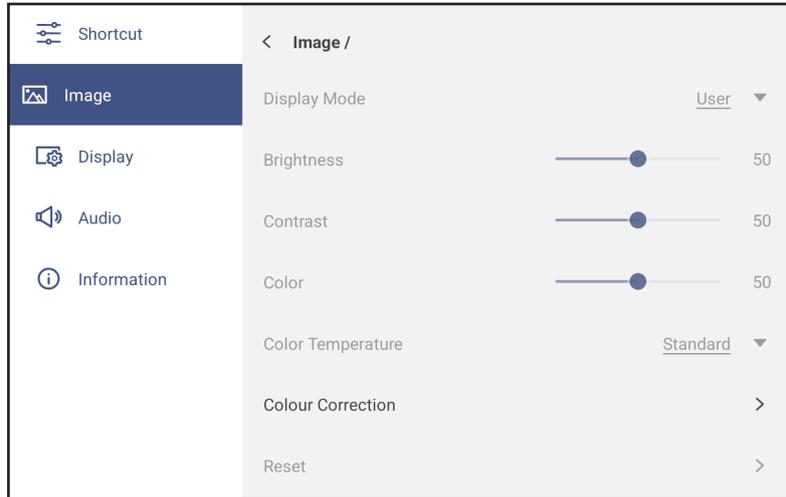
- Drag the volume slider bar to the right or to the left to adjust the volume level.



BASIC OPERATIONS

Configuring the Image Settings

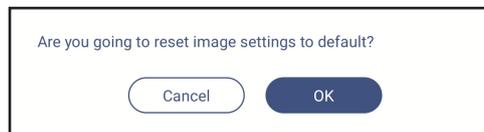
In the OSD menu, tap  to open the Image menu, then complete the following steps:



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

Note:

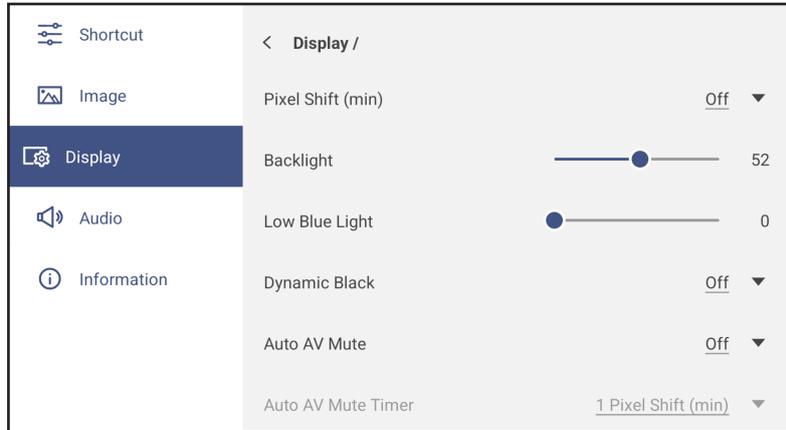
- *Image settings can only be adjusted in HDMI, VGA, DisplayPort, OPS, and Type-C input. It can't be adjusted and will be grayed-out in Android source.*
 - *If the Display Mode setting is set to **User**, you can customize image settings by adjusting the brightness, contrast, and color settings based 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.*
- Tap **Color Temperature** and select one of the available options: Standard, Warm, or Cold.
 - Tap **Color Correction** to automatically optimize the screen color.
 - Tap **Reset** to reset all image settings to their defaults.



BASIC OPERATIONS

Configuring the Display Settings

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

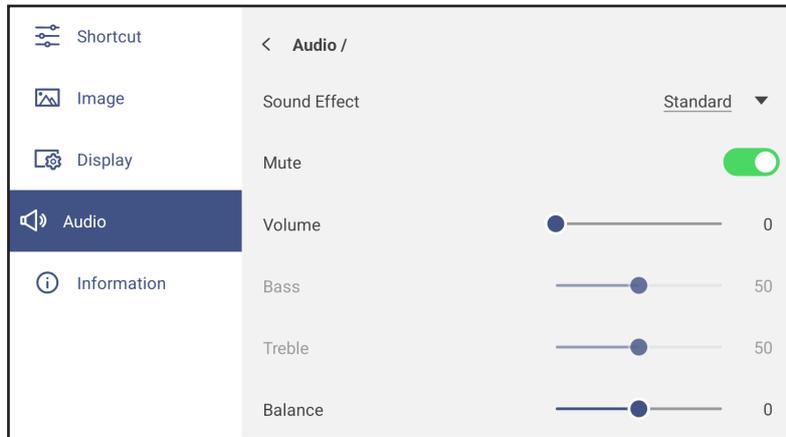


- Tap **Pixel Shift (min)** and select one of the available options: Off, 2, 3, 5, 30, or 60.
Note:
 - *Pixel shift feature helps to prevent image retention.*
 - *Pixel shift is supported with all input sources except for Android.*
- Drag the **Backlight** slider bar to adjust the backlight level.
Note: *Backlight can be adjusted also in the Shortcut menu. Refer to page 33.*
- 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 33.*
- Tap **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.*
- Tap **Auto AV mute** and select one of the available options when the screen backlight is turned off and audio is muted: Off or Ambient light.
- Tap **Auto AV mute timer** to set the AV mute timer.

BASIC OPERATIONS

Configuring Audio Settings

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



- Tap **Sound Effect** and select one of the available options: Standard, Class, Meeting, 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.
- Tap **Mute** to mute or unmute audio.
Note: You can also mute or unmute audio by pressing the **Mute**  button on the remote control.
- Drag the **Volume** slider bar to adjust the volume level.
Note: You can also adjust the volume using the volume slider in the Shortcut menu of the OSD:

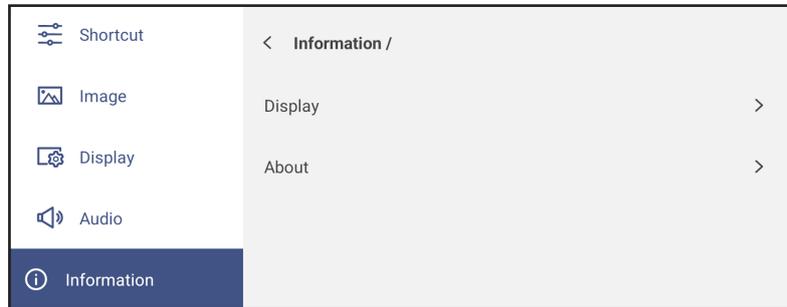


- Drag the **Bass** slider bar to adjust the bass level that is suitable for your room.
Note: Bass level and treble level can be adjusted only if the Sound Effect is set to **User**. In other sound effect modes this parameter is preset and cannot be adjusted.
- Drag the **Treble** slider bar to adjust the treble level that is suitable for your room.
- Drag 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, tap  to open the Information menu, then complete the following steps:



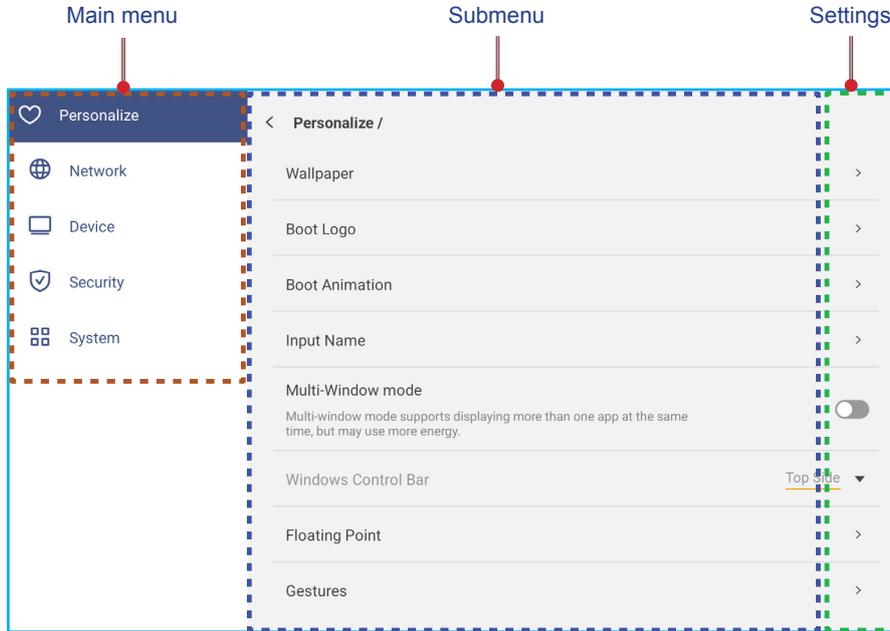
- Tap **Display** to view display mode, current input source, resolution, color depth, and color format.
- Tap **About** to view model name, regulatory model name, serial number, firmware version, and Android version.

BASIC OPERATIONS

Android Settings Menu

To open the Settings menu, press the  button on the remote control or tap > or < =>  on the Home screen.

Note: Settings can be modified only in Android mode.

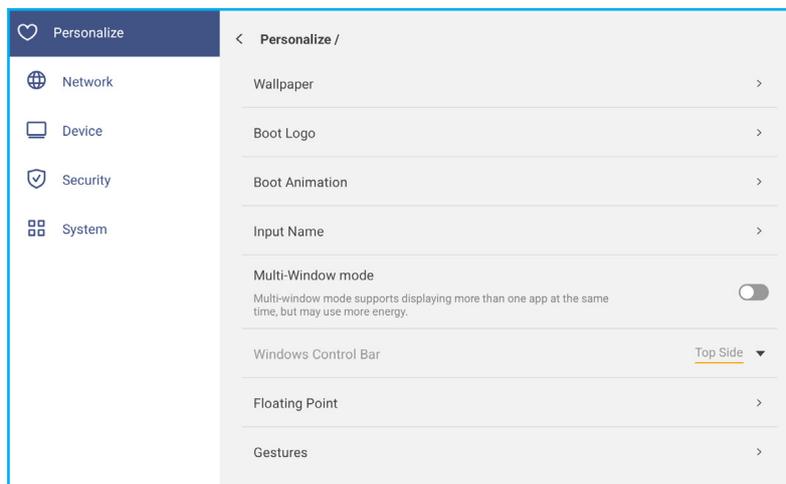


Note:

- To configure Android settings, simply touch the menu item on the screen 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 menu, tap < or press **Return**  on the remote control.
- To close the Settings menu, touch anywhere on the screen outside the menu or press **Return**  continuously (if necessary) on the remote control.

Personalizing the System

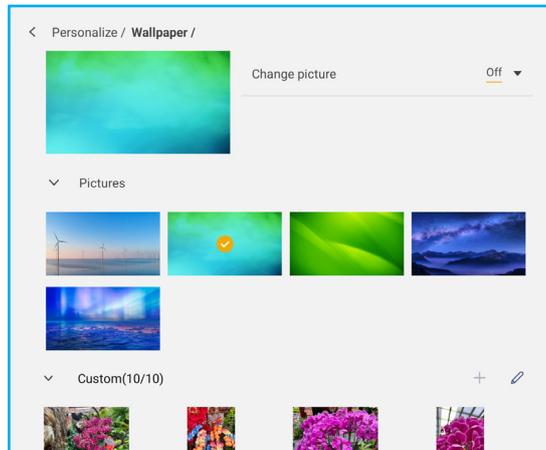
In the Settings menu, tap  to open the Personalize menu, then complete the following steps:



BASIC OPERATIONS

Personalizing the System (Continued)

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

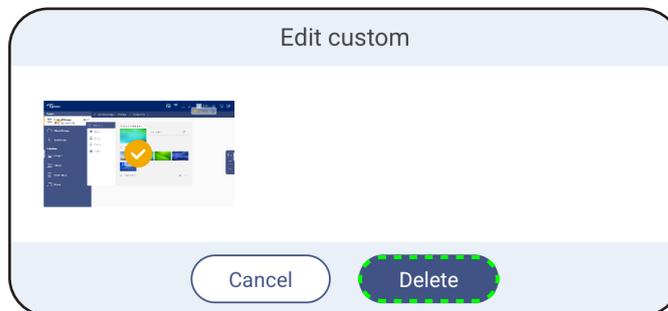


If you select a pre-loaded wallpaper from the Pictures folder, the setting will take effect immediately.

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

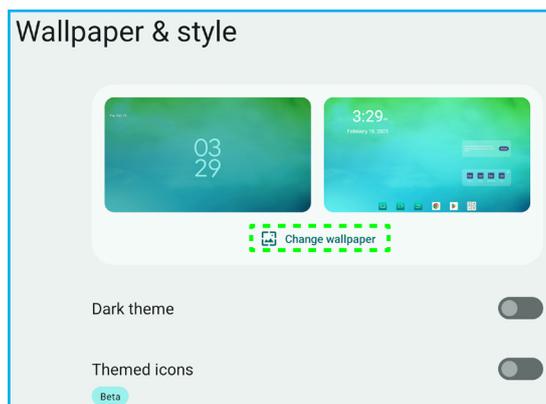
- To the right of the Custom section of the Wallpaper menu, tap **+**.
- Select your preferred image from the local or external storage and tap **OK**. You can import up to 10 images.
- Once your custom wallpapers have been uploaded, tap on the image you wish to use as a wallpaper. The setting takes effect immediately.

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



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

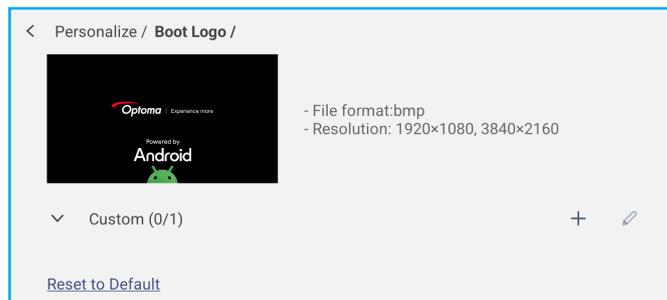
Note: You can also set a wallpaper with a single finger press+hold anywhere on the Home screen ⇒ **Wallpaper & style** ⇒ **Change wallpaper**.



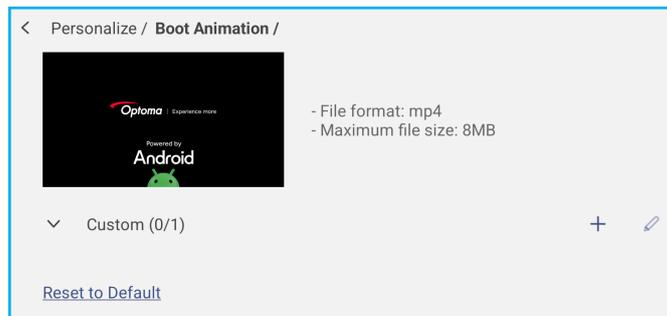
BASIC OPERATIONS

Personalizing the System (Continued)

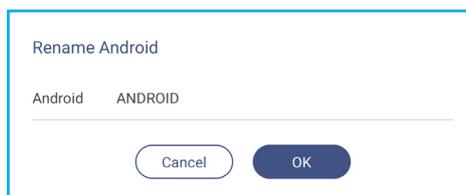
- Tap **Boot Logo** to modify the logo/image displayed during the bootup process. Follow these steps:
 - a) To the right of the Custom section of the Boot Logo menu, tap **+**.
 - b) Select your preferred image from the local or external storage and tap **OK**. You can import 1 image at a time. The image must be in BMP format with a resolution of 1920x1080 or 3840x2160. After importing the logo image, tap on it and then you can see it in the preview window.
 - c) To delete the custom logo image, tap **✎**. Then select the image and tap **Delete** or tap **Reset to Default** to display the default logo during startup.



- Tap **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, tap **+**.
 - b) Select your preferred video from the local or external storage and tap **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, tap on it and then you can see it in the preview window.
 - c) To delete the custom boot animation, tap **✎**. Then select the video and tap **Delete** or tap **Reset to Default** to display the default animation during startup.



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

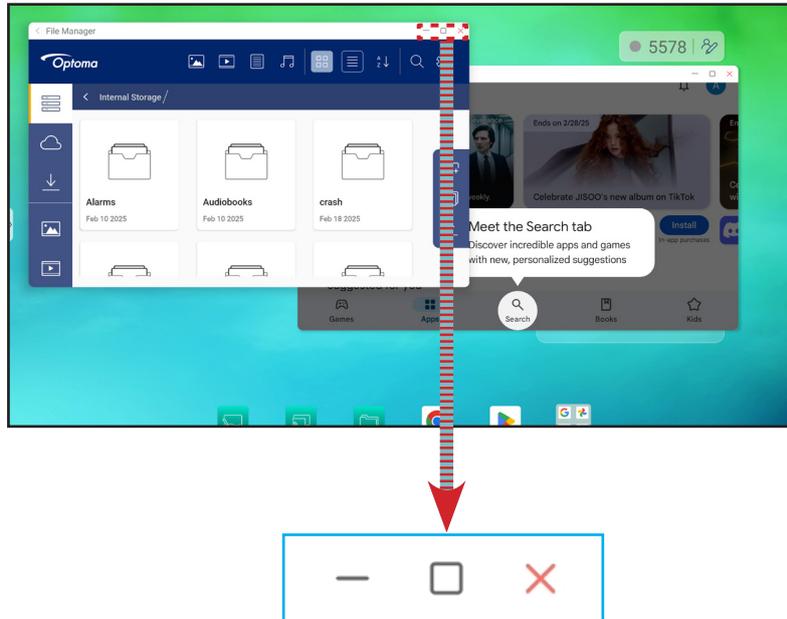


BASIC OPERATIONS

Personalizing the System (Continued)

- Tap **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. Tap **Restart** to save this change and reboot the IFP.

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:

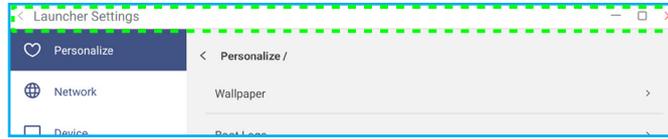
- Move the app window in any direction to change its placement on the screen.
- Tap  to minimize the app window.
- Tap  or drag the app window to the right or upper corner of the screen to view the app in full screen mode.
- In full screen mode, drag or swipe your finger down from the upper edge of the screen and then tap  to see the app in a window.
- Tap  to close the app.

BASIC OPERATIONS

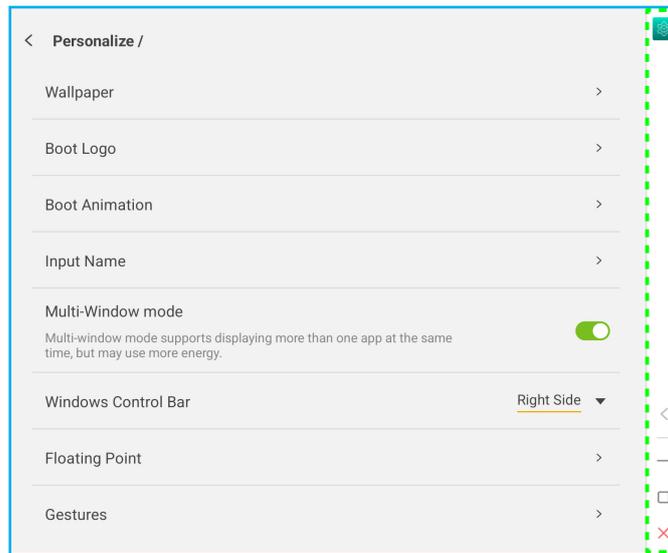
Personalizing the System (Continued)

- Tap **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:

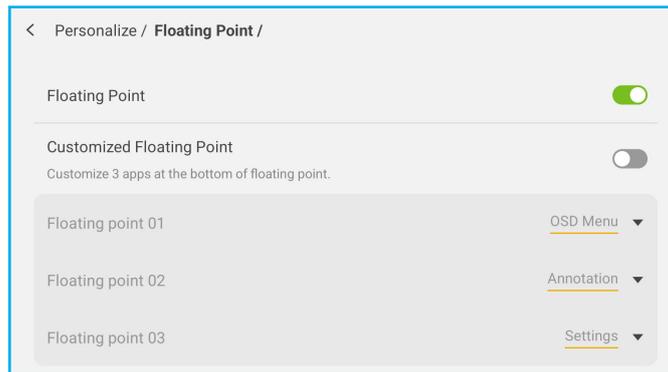
Top Side



Right Side



- Tap **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.



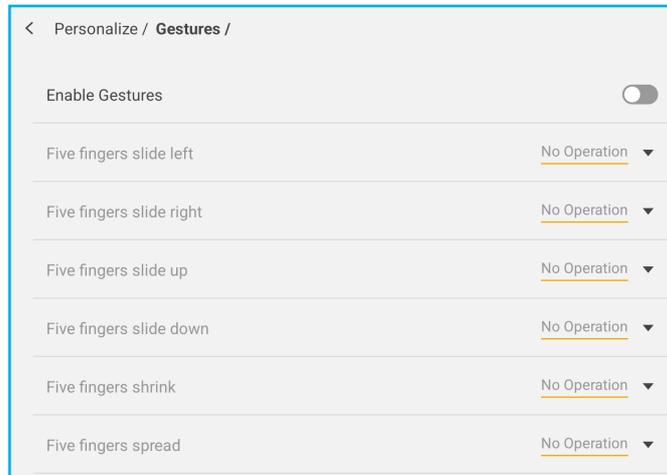
Floating Point



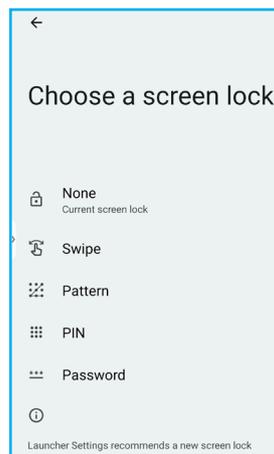
BASIC OPERATIONS

Personalizing the System (Continued)

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



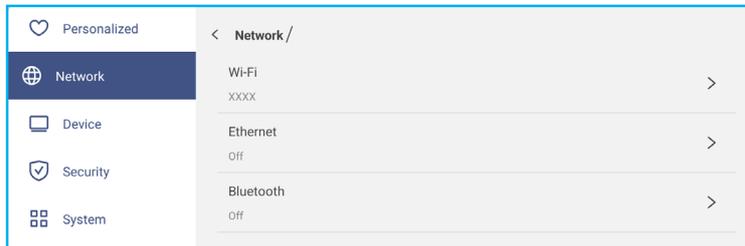
- Tap **Screen Lock Password** and select the screen locking method. The available options are: Swipe, Pattern, PIN, and Password. Select None if you want to keep the screen unlocked.



BASIC OPERATIONS

Configuring Network Settings

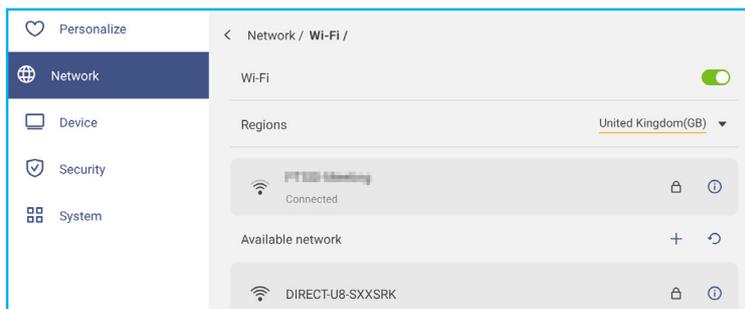
In the Settings menu, tap  to open the Network menu, then complete the following steps:



- Tap **WI-FI** to connect the IFP to a Wi-Fi network and view current connection status. Make sure the Wi-Fi function is enabled. In the Available networks list, tap on your preferred Wi-Fi network. Provide an access password if needed.
- Tap **Region** and select your region from the drop-down list.

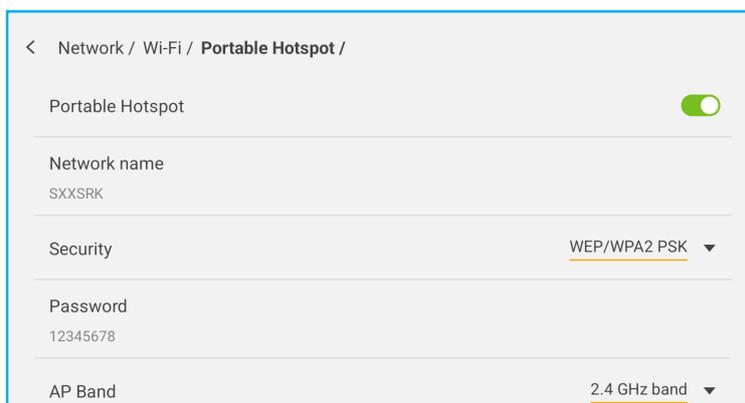
IMPORTANT! To connect to a Wi-Fi network, make sure the Wi-Fi module is properly installed into the Wi-Fi module slot. For more information, refer to page 28.

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



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

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



Note:

- For a secure connection, set the Wi-Fi encryption (Security field) as **WEP/WPA2 PSK**. Then enter the access password and tap **OK**.
- Enabling Portable hotspot disconnects the IFP from Wi-Fi. Ensure that the IFP is connected to the Internet using a compatible ethernet cable and you have completed configuring the ethernet settings.
- Tap **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 tap  and enter the connection settings, such as IP address, gateway, network prefix length, and more. Tap **OK** to save the settings. Tap **Proxy Settings** to configure network connection via proxy server.

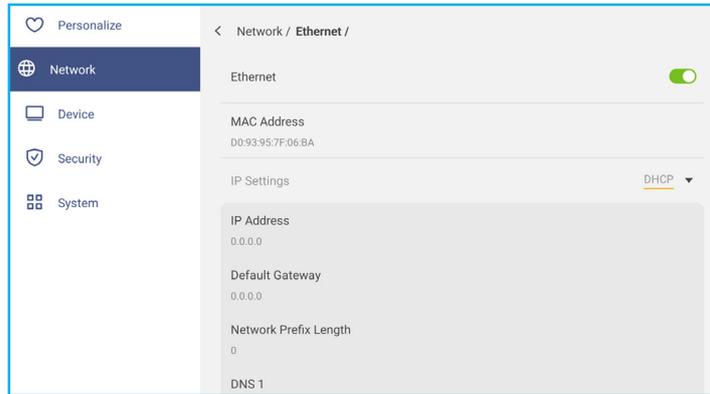
BASIC OPERATIONS

Configuring Network Settings (Continued)

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

IMPORTANT! To connect to a wired network, make sure the IFP is connected using a compatible ethernet cable. For more information, refer to page 27.

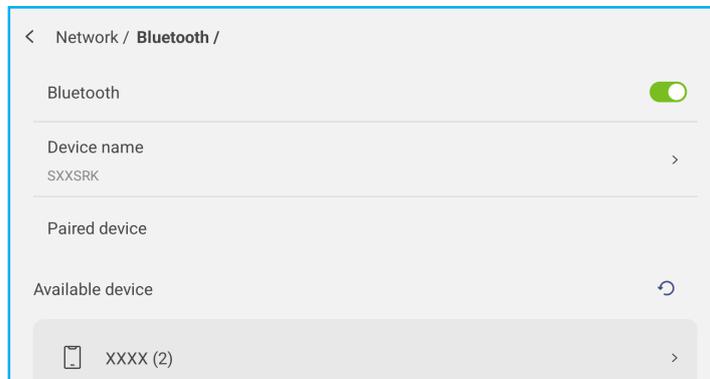
Note: Wi-Fi and Ethernet connections are mutually exclusive. Enabling one will disable the other.



- Tap **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.

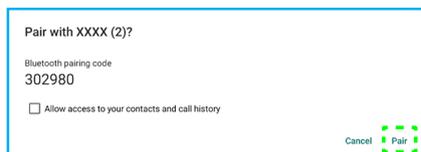
Tap the following:

- **Device Name** to enter a new device name. To confirm the modification, tap **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, tap **Pair** to confirm.

IFP



Portable Device



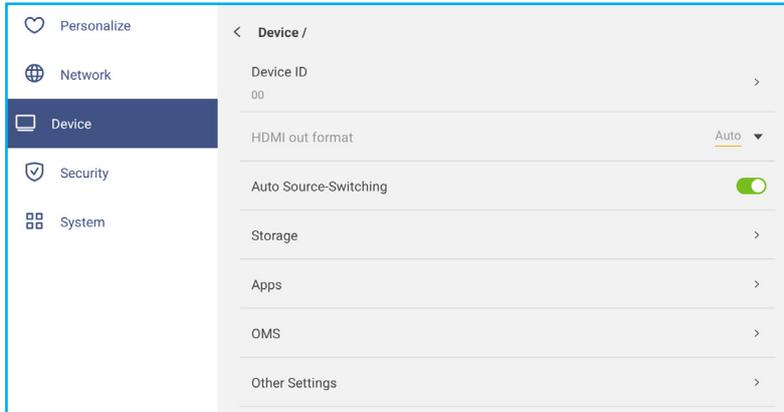
Note: If the Bluetooth device is not visible in the list of available devices, make sure the device is nearby the IFP and Bluetooth is enabled. Then tap ↻ to refresh the list.

- Tap **VPN** to add a VPN profile.
- Tap **Hostname** to rename the IFP.
- Tap **Share Network (via USB)** to enable the sharing of your IFP's network with other devices via a USB-C connection.

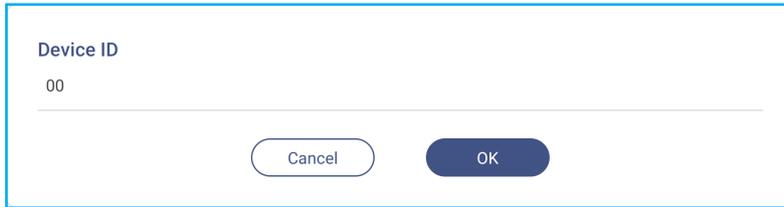
BASIC OPERATIONS

Configuring Device Settings

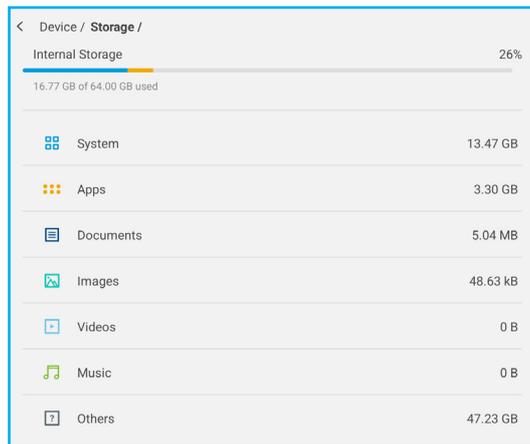
In the Settings menu, tap  to open the Device menu, then complete the following steps:



- Tap **Device ID** to assign a new numerical ID to the IFP. To confirm, tap **OK**.



- Tap **HDMI out format** and select the format that can be output from the HDMI out port.
- Tap **Auto Source-Switching** to enable or disable switching input sources automatically.
- Tap **Storage** to view storage usage.



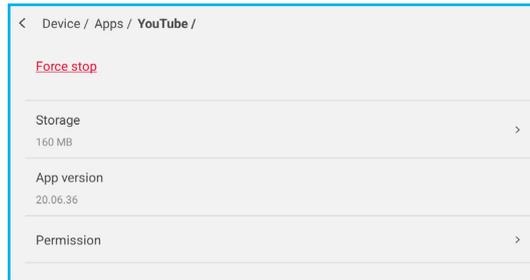
- Tap **Apps** to view app information, clear app data and cache, and force stop apps.



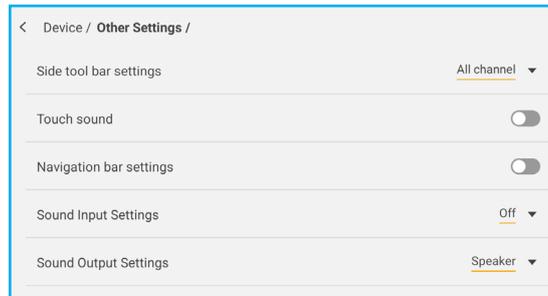
BASIC OPERATIONS

Configuring Device Settings (Continued)

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



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



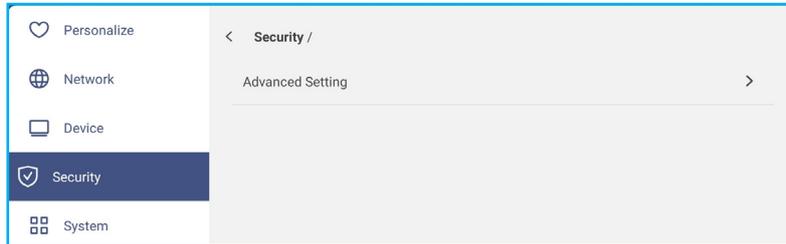
Tap any of the following:

- **Side toolbar settings** to select when the toolbar is visible: Only Android, All channel, All channels except OPS, or Disable the **Side toolbar**.
- **Touch Sound** to enable or disable audio feedback when you tap 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

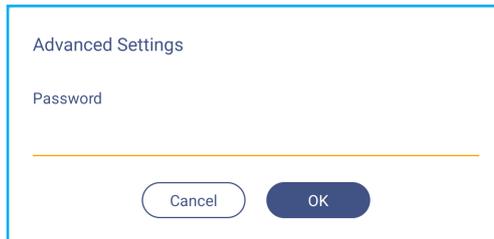
In the Settings menu, tap  to open the Security menu, then complete the following steps:



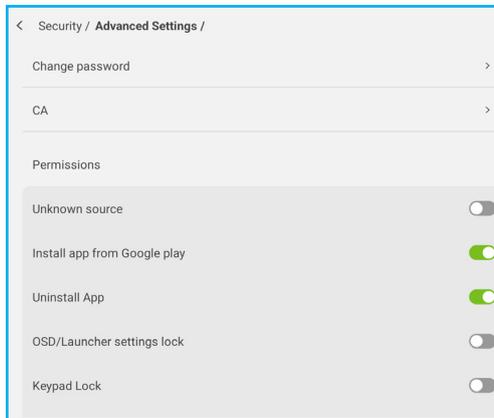
- Tap **Advanced Setting** to enter the Advanced Settings menu (password required). If no password has been set, you will be prompted to create a password for the Advanced Settings menu. Do the following:

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

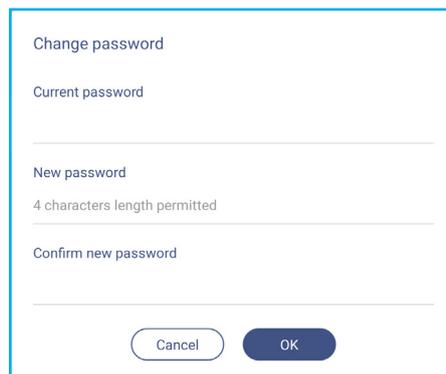
- a) Enter the Advanced Setting password at the prompt to access the advanced settings and then tap **OK** to confirm.



- b) Select any of the following items:



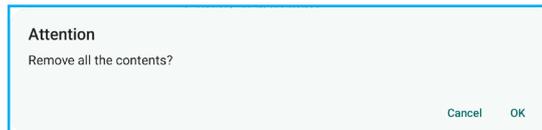
- **Change password:** Enter the current password and then the new password twice. Tap **OK** to confirm.



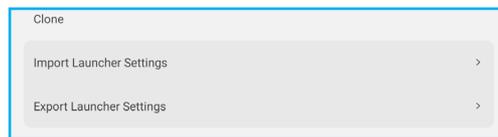
BASIC OPERATIONS

Configuring Security Settings (Continued)

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



- **Permissions:** Configure permissions:
 - Tap **Unknown source** to enable or disable installing third party software from an unknown source.
 - Tap **Install app from Google play** to enable or disable installing apps from Google Play.
 - Tap **Uninstall app** to enable or disable uninstalling third party software.
 - Tap **OSD/Launcher setting lock** to lock or unlock the OSD/launcher settings.
 - Tap **Keypad Lock** to enable or disable keypad lock.
 - Tap **Touch Lock** to enable or disable touch functions.
 - Tap **Front I/O Lock** to enable or disable the I/O ports on the front panel of the IFP.
- **Clone:** Import or export launcher settings:



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

BASIC OPERATIONS

Configuring Security Settings (Continued)

Note: IFP 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Side tool bar settings Touch sound
Security ⇒ Advanced Settings	<ul style="list-style-type: none"> Password setting Permissions ⇒ Unknown source Permissions ⇒ Install app from Google play 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 ⇒ Upgrade	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: Never, one day, or one hour.

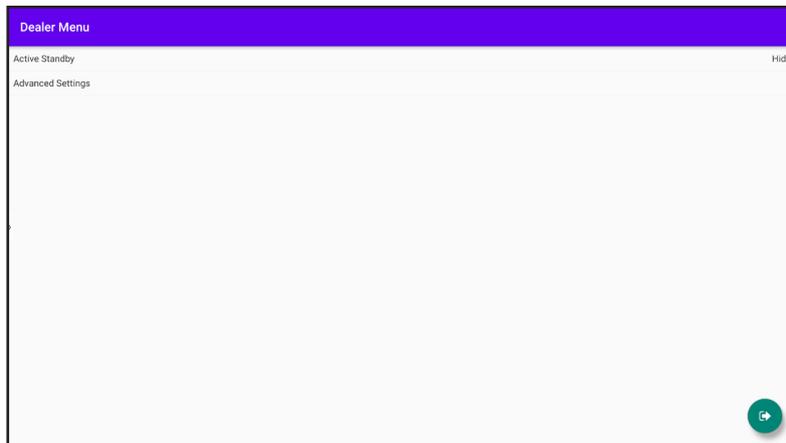
BASIC OPERATIONS

Configuring Security Settings (Continued)

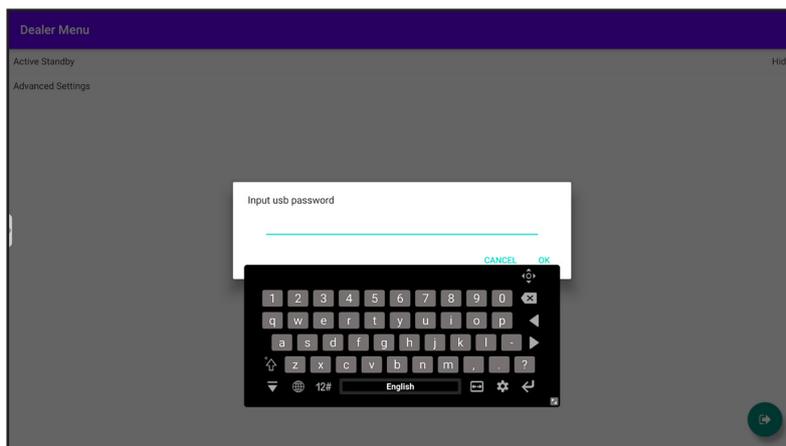
Enabling or Disabling USB Wi-Fi/USB Disk

a) Press **Source** + **5** + **9** + **8** + **0** keys on the remote control.

The Dealer Menu opens.



b) Tap **Advanced Settings**, then enter the Advanced Setting password at the prompt and tap **OK**.



c) Tap **USB Disk Enable** to enable or disable USB Wi-Fi/USB disk.



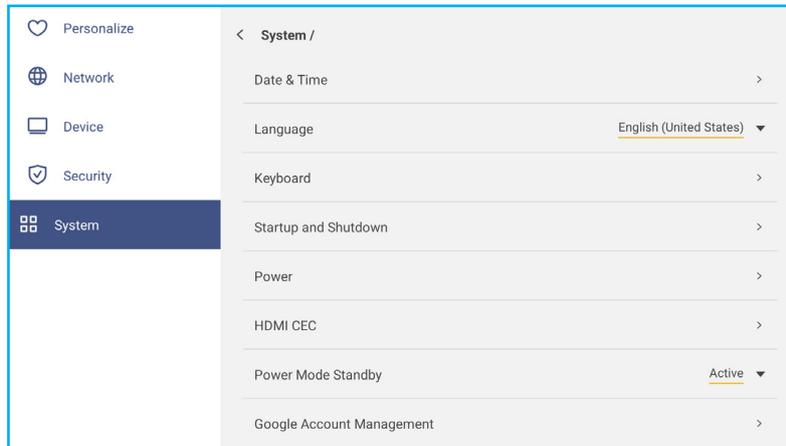
Note: *The modification will take effect immediately.*

d) Tap  to close the Dealer Menu.

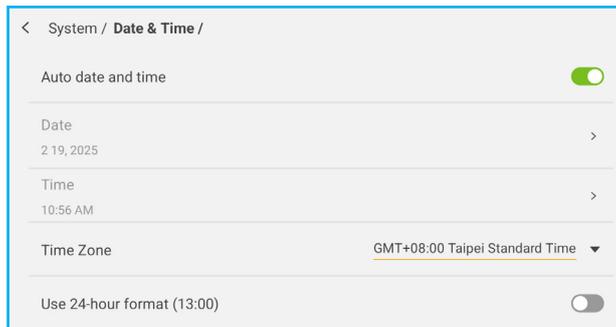
BASIC OPERATIONS

Configuring System Settings

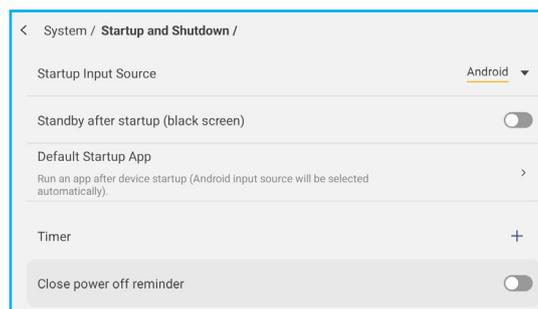
In the Settings menu, tap  to open the System menu, then complete the following steps:



- Tap **Date and Time** to configure date and time related settings. Tap 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.
- Tap **Language** to select one of the available language options: German, Danish, English, Spanish, French, Italian, Hungarian, Norwegian, Dutch, Portuguese, Polish, Romanian, Swedish, Finnish, Turkish, Czech, Russian, Arabic, Simplified Chinese, and Traditional Chinese. You can also use the search function to easily find and select your preferred language from the list.
- Tap **Keyboard** to view and manage keyboards.
- Tap **Startup and Shutdown** to configure settings related to the Startup and Shutdown of the IFP. Tap any of the following:

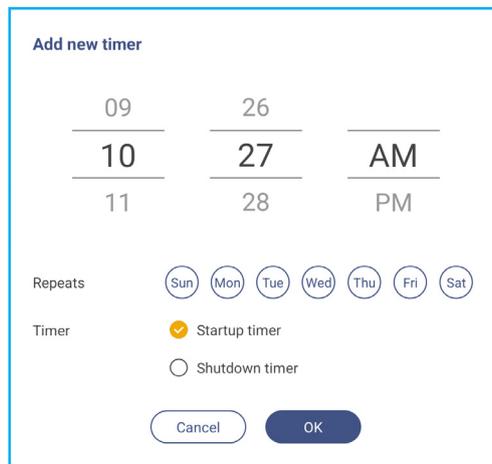


- **Startup Input Source:** Select from one of the available options to set as the default input-source to use each time the IFP boots up: Last shutdown input, Android, OPS, HDMI Front, HDMI 1, HDMI 2, Display Port, Type-C Front, Type-C, or VGA.

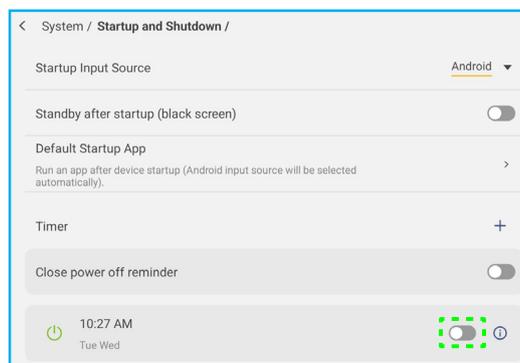
BASIC OPERATIONS

Configuring System Settings (Continued)

- **Standby after startup (black screen)**: When enabled, the IFP will automatically go into Standby mode immediately after booting up.
- **Default Startup app** to select an available app to automatically launch each time the IFP 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 IFP to follow this startup or shutdown schedule.
 - c) Tap **OK** to save the new startup or shutdown schedule.



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



Note:

- Tap ⓘ 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 IFP is scheduled to shut down.
- Tap **Power** to configure power settings. Tap any of the following:



BASIC OPERATIONS

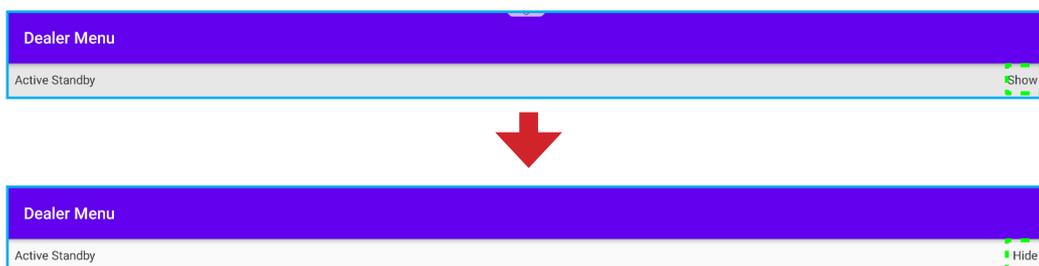
Configuring System Settings (Continued)

- **Signal Power On** to enable or disable starting up the IFP when an input signal is detected.
- **Direct Power On** to enable or disable starting up the IFP 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 IFP 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 IFP 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 (press and hold the power button to talk to Google Assistant) or Optoma (shut down the IFP).
- Tap **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.
- Tap **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) Press **Source + 5 + 9 + 8 + 0** keys on the remote control.

The Dealer Menu opens.



- b) Tap **Active Standby** to change the Power Mode Standby option. The option changes from “Show” to “Hide”.



- c) Tap  to close the Dealer Menu.

BASIC OPERATIONS

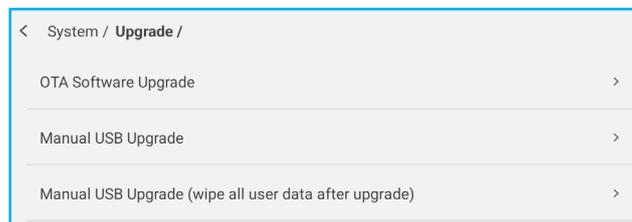
Configuring System Settings (Continued)

The System ⇒ Power Mode Standby menu becomes grayed out. The power standby mode is now changed to **Eco**.

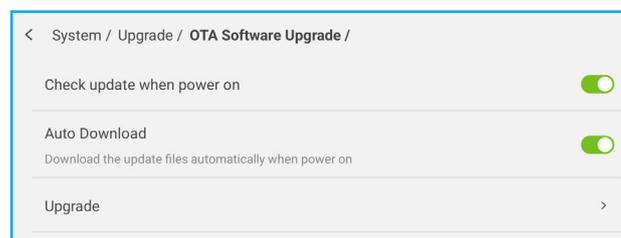


Note:

- **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 IFP for a period of time when **Active Standby** mode is not needed. This helps the IFP system to release memory and CPU loading.
- Tap **Google Account Management** to configure your Google account settings and access other Google/Android settings from the Google settings menus.
 - Tap **Upgrade** to configure upgrading options. Tap 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 IFP 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, tap **Upgrade** and follow the onscreen instructions to complete the upgrade process.

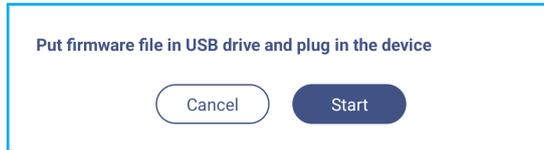
Note: *Upgrading software over Internet requires a stable network connection.*

- **Manual USB 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 IFP. Open **Settings** ⇒ **System** ⇒ **Upgrade** ⇒ **Manual USB Upgrade** or **Manual USB Upgrade(wipe all user data after upgrade)** and tap **Start** when prompted.



Note: If you upgrade IFP'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 IFP and **DO NOT** remove the USB module/dongle from the IFP. Doing so will damage the system.
- Tap **Legal** to view Terms and conditions of use, Privacy Policy, Cookie Policy, and Open Source and Third party software license.

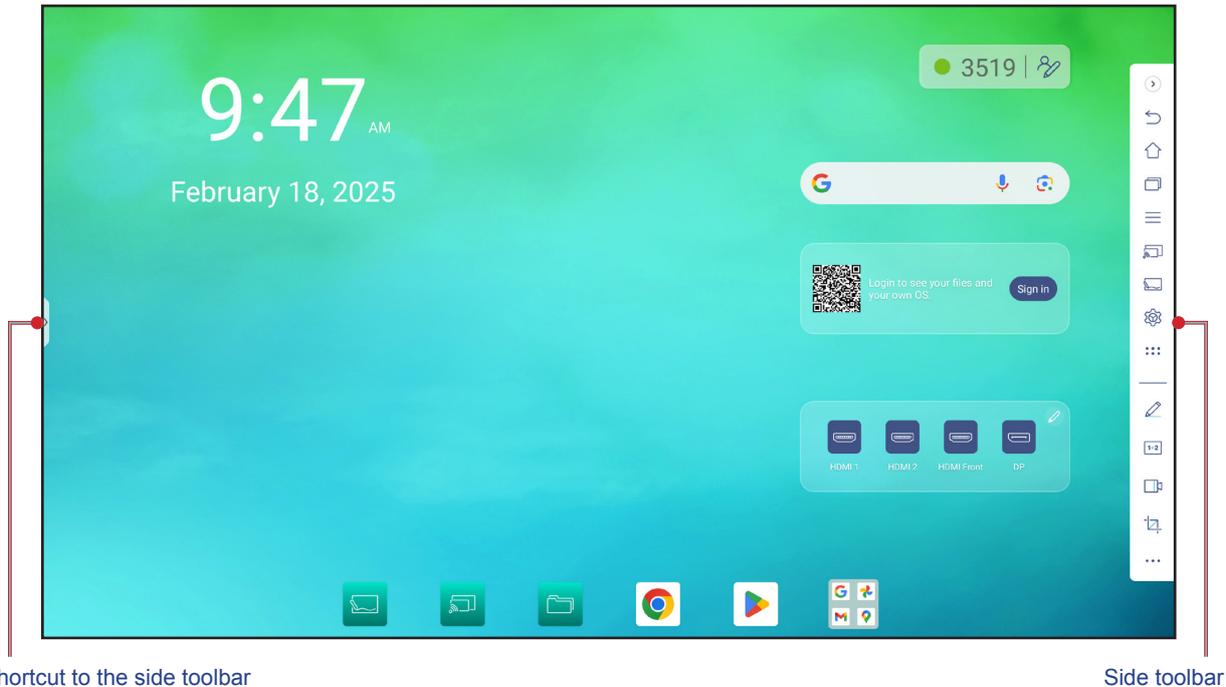


BASIC OPERATIONS

Side Toolbar

Tap > or < on the left or right side of the screen to open the **Side toolbar**. To hide the toolbar, tap anywhere on the screen or tap > or <.

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



Shortcut to the side toolbar

Side toolbar

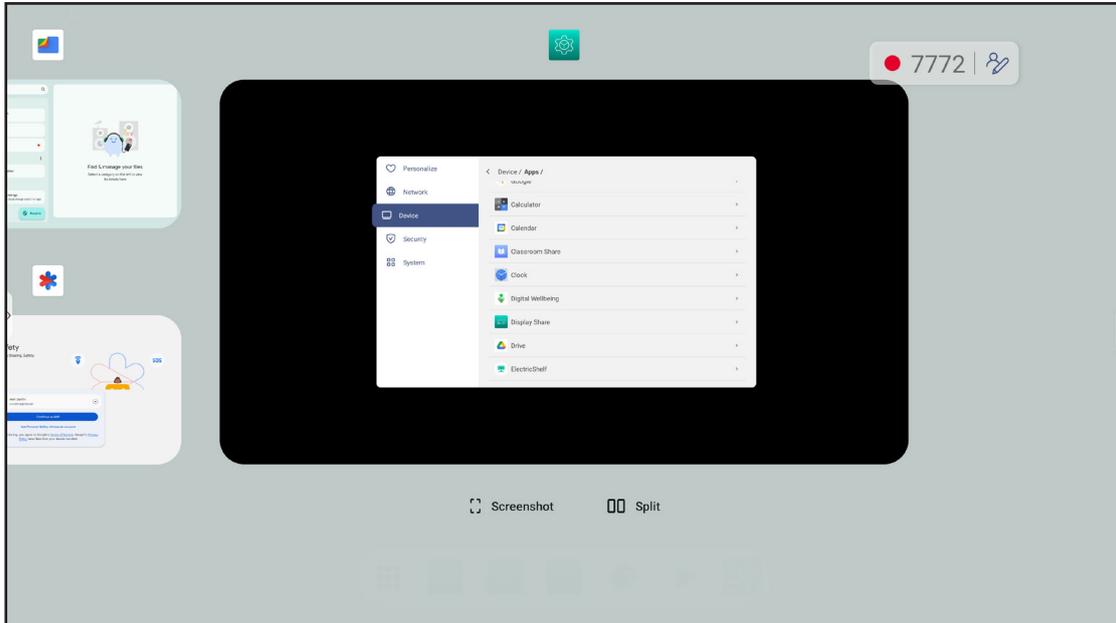
Tap the icon on the **Side toolbar**:

- 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 60.
- to view the **OSD menu**. For more information, refer to “**OSD Menu**” on page 32.
- 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 61.
- to open **Classroom Share**. For more information, refer to “**Classroom Share**” on page 62.
- to open the **screen recording** tool. For more information, refer to page 35.
- 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 “**Screen Capture Tool**” on page 68.
- To open more tools, such as **Freeze**, **Stopwatch**, **Timer**, **Spotlight**, **LockScreen**, or **Calculator**, tap .

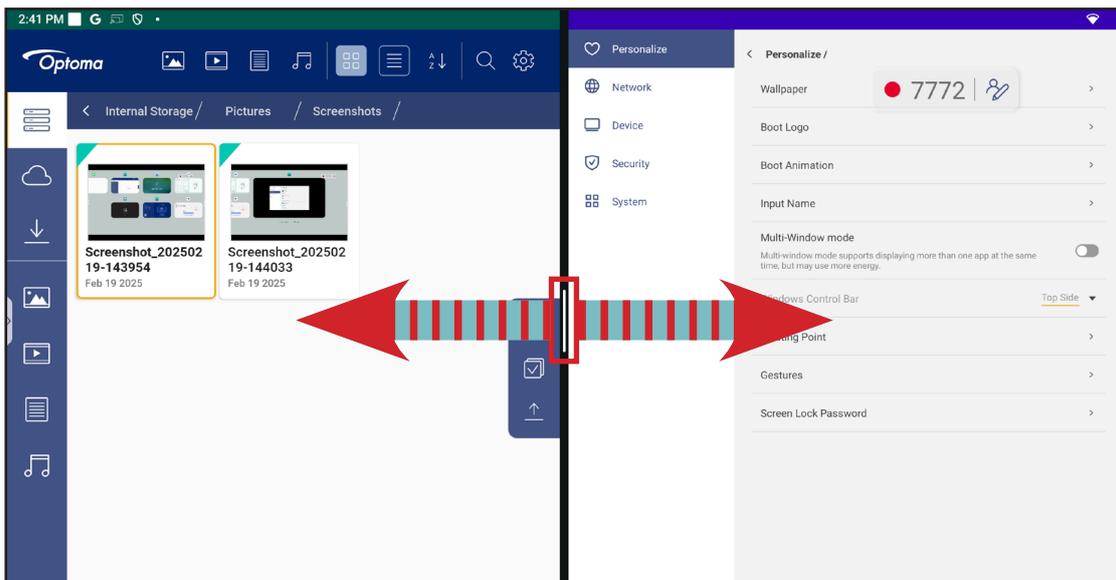
BASIC OPERATIONS

Viewing Recent Tasks

Tap > or <=>  or press the **Task**  key on the remote control to view and manage all opened apps.



- Tap on the app you want to launch.
- To close the app, swipe the app window towards the upper edge.
- To clear the list, tap **Clear all**.
- Tap **Screenshot** to capture the screen image.
- Tap **Split** to view two apps in a split screen. Select one app first, next tap **Split**, and select the second app. To exit the split screen mode, tap 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

Tap > =>  to open the annotation app.

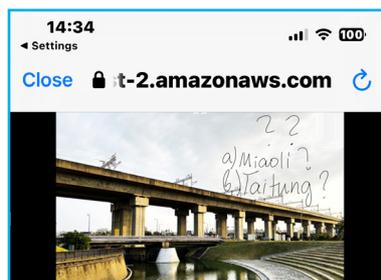


In this mode, you can do the following:

- Tap  to write and draw on the screen.
Note: You can change the pen color by tapping  and selecting a new color.
- Tap  to highlight the item on the screen.
Note: You can change the highlighter color by tapping  and selecting a new color.
- Tap  to delete part of the annotation.
- Tap  to erase all annotations on the screen.
Note: You can also use the palm of your hand to erase the areas of your written texts or drawings.



- To capture a screenshot of the entire screen, tap .
- To share the annotation to other wireless devices, tap . Make sure your wireless device is connected to the same Wi-Fi network as the IFP and then scan the QR code with your wireless device.

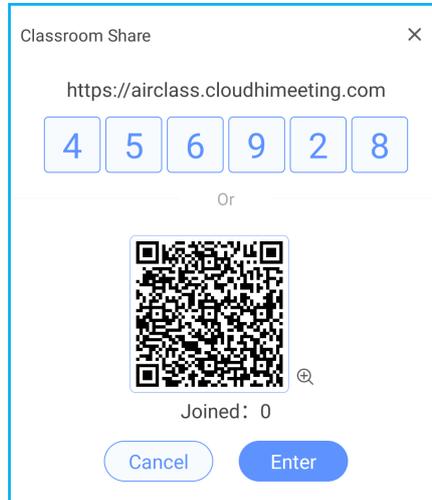


- Insert the annotation to the whiteboard session, tap .
- To exit the annotation mode, tap .

BASIC OPERATIONS

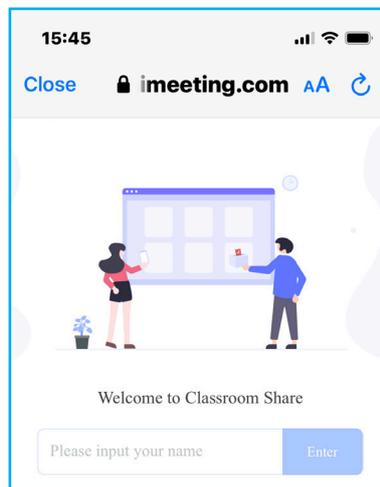
Classroom Share

Tap > => **1-2** to open **Classroom Share**. The online classroom access code and URL will be displayed on the screen.

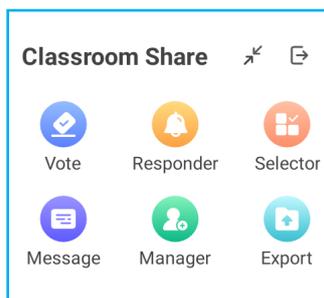


To join the virtual classroom remotely, complete the following steps:

1. Connect the IFP to an available network.
IMPORTANT! *Make sure you have access to the Internet throughout the entire online session.*
2. Open the classroom URL in a web browser and enter the access code or scan the access QR code. Then enter your name and tap **Enter** to join the class.



3. On the IFP, tap **Enter** to start the class session. The Classroom Share screen will open.



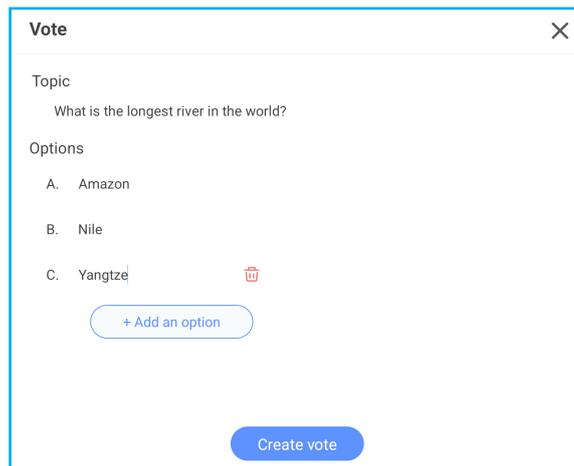
BASIC OPERATIONS

Classroom Share (Continued)

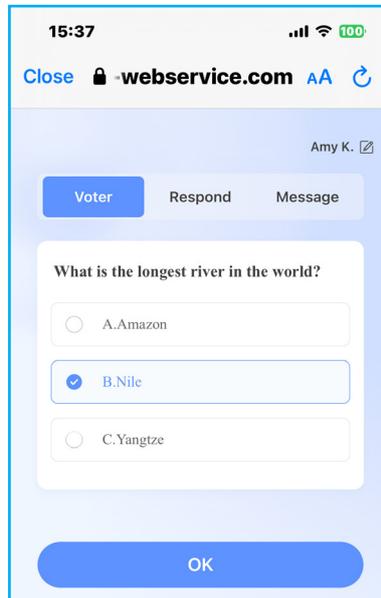
Tap any of the following on the Classroom Share screen:

a. Vote

1. Tap **Vote** to start a voting activity.
2. Enter two choices. Tap **+Add an option** to add more choices or tap  to delete an optional choice.
3. Tap **Create vote** to save the options.



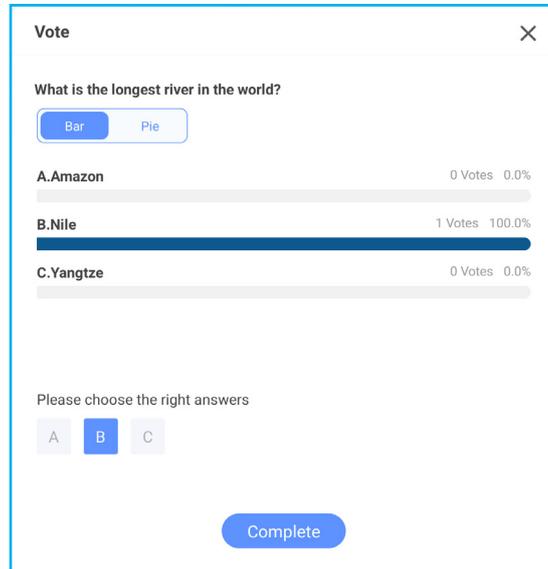
4. Tap **Start** to begin and allow participants to answer the question.
5. Participants can respond by selecting the answer on the mobile device screen and tapping **OK**.



BASIC OPERATIONS

Classroom Share (Continued)

- To close the answering session, tap **Finish**. The result will be displayed on the screen. Select how you want the answer(s) to be displayed, either as a Bar or Pie chart.
- Tap the right answer(s) (if necessary) on the Answers statistics screen and then tap **Complete**.

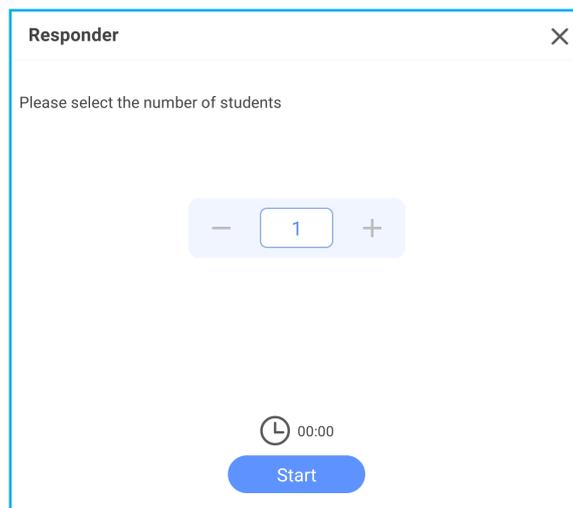


Note: To export the voting result, tap **Export** on the Classroom Share screen. The result is saved as XLS file to the internal storage folder.

- Tap **Reset** to start a new voting activity.
- Tap **X** to close the Answer statistics page.

b. Responder

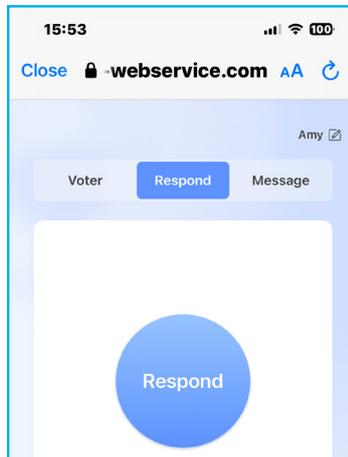
- Tap **Responder** to enter the responder mode.
- Select the number of participants. Then tap **Start** to start the answering mode.



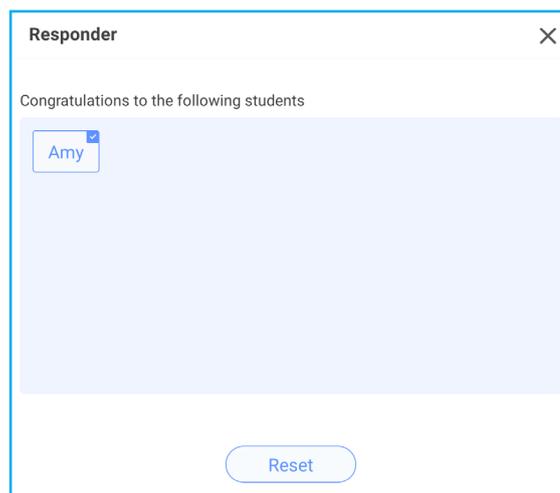
BASIC OPERATIONS

Classroom Share (Continued)

3. When the function is activated, the person who taps first will get the opportunity to answer. The participant who wants to answer, taps **Respond** on the mobile device screen.

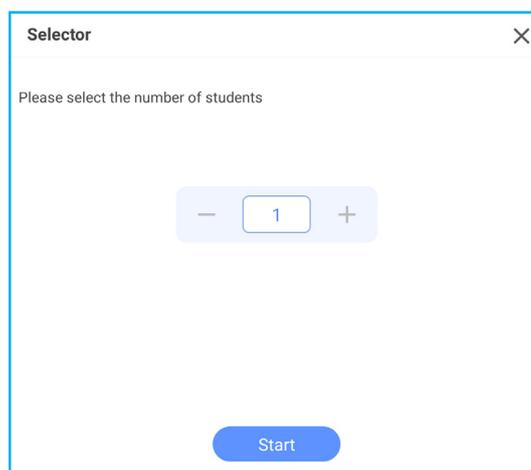


4. To close the answering session, tap **Finish**.
5. Tap **Reset** to start the answering mode again.



c. Selector

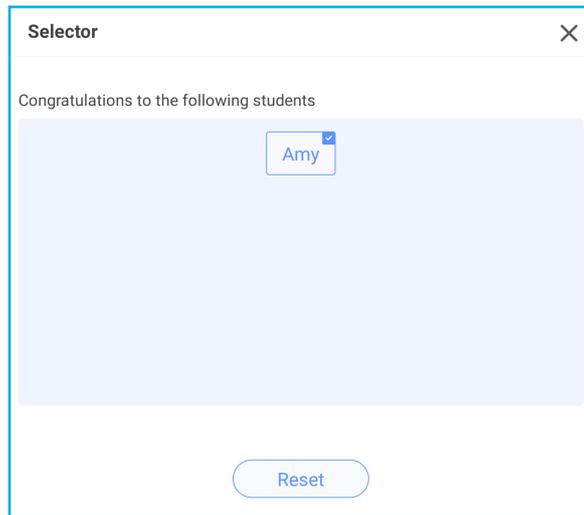
1. Tap **Selector** to enter the selector mode.
2. Select how many participants are going to be selected. Next tap **Start** to select the participant(s).



BASIC OPERATIONS

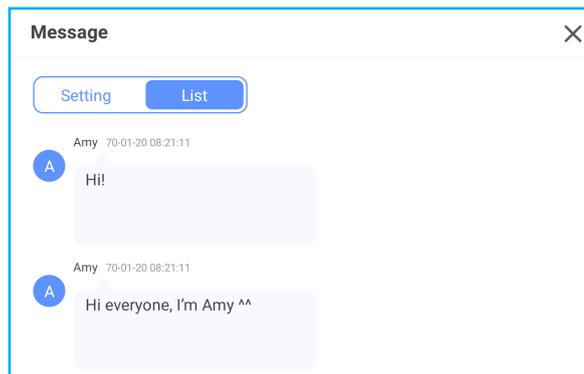
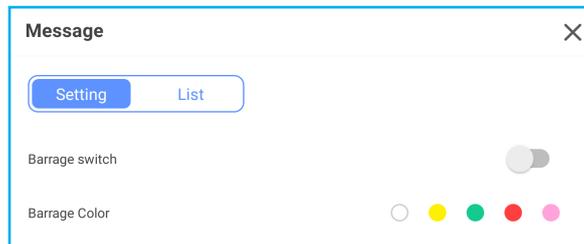
Classroom Share (Continued)

3. The name(s) of the selected participant(s) are displayed on the screen.
4. Tap **Reset** to select more participants.



d. Message

1. Tap **Message**. Then tap **Setting** to enable or disable messaging and select the message color. To view the history of received messages, tap **List**.



BASIC OPERATIONS

Classroom Share (Continued)

2. On the mobile device, tap **Message** to switch to the Message screen, then enter your message in the comment text box and tap **Send**.



The broadcast message will appear on the IFP screen.



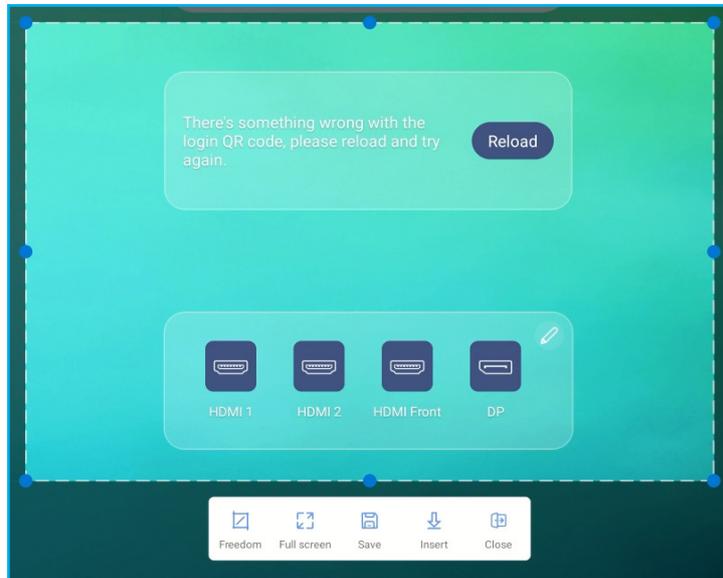
Note:

- Tap **Manager** to display the class access code, URL, QR code and allow more participants to join the class.
- Tap  to minimize the **Classroom Share** window. Tap  to maximize the window.
- Tap  to exit **Classroom Share**. Confirm **Exit** at the prompt. All classroom users will be logged off.

BASIC OPERATIONS

Screen Capture Tool

Tap > ⇒  or press the **Capture**  key on the remote control to open the screen capture tool.



To capture the screen:

1. Tap either **Freedom** or **Full screen** to manually select the area or to capture the entire screen respectively.
2. Tap **Save** to save the screenshot or tap **Insert** to insert the screenshot directly to a whiteboard session.
3. Tap **Close** to exit the tool.

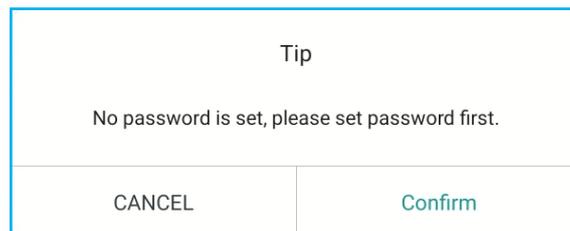
BASIC OPERATIONS

More Tools

Tap > => *** to access more tools such as **Freeze**, **Stopwatch**, **Timer**, **Spotlight**, **LockScreen**, and **Calculator**.



- Tap **Freeze**  to freeze the screen. Then tap  to zoom in or tap  to zoom out. To restore the screen to its original size, tap . Finally, to exit the tool, tap .
- Tap  to use the **Stopwatch**.
- Tap  to use the **Timer**.
- Tap  to activate **Spotlight**. **Spotlight** can be used to direct the audience's focus to a specific part of the board.
- Tap  to lock the screen (**LockScreen**) or press the **Sc.Lock**  key on the remote control. If the screen lock password is not set, you are prompted to set the password. Follow the onscreen instructions to complete the procedure.

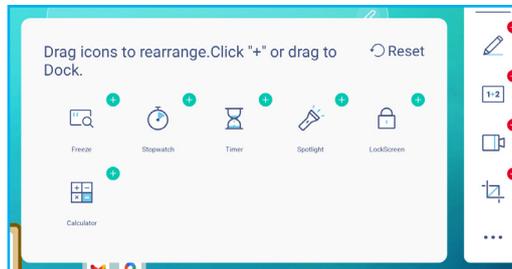


- Tap  to use the **Calculator**.

BASIC OPERATIONS

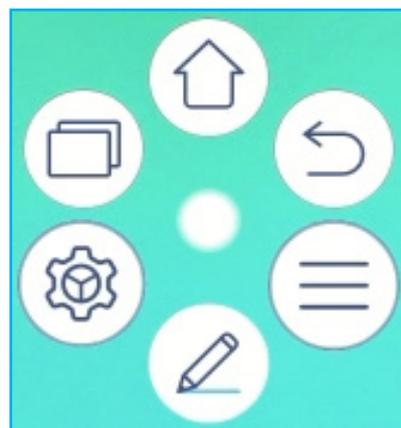
More Tools (Continued)

To customize the tools displayed in the **Side toolbar**, tap > ⇒ *** ⇒ **Edit**. Then tap **−** next to the icon you want to remove from the **Side toolbar** and tap **+** 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**.



Floating Menu Toolbar

Touch and hold the screen with your two fingertips, a centimeter apart from each other. This opens the floating menu toolbar.

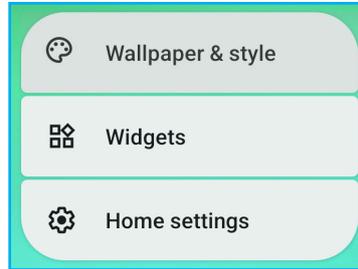


- Tap  to return to the previous screen.
- Tap  to return to Home screen.
- Tap  to view recent apps. Swipe from side to side to scroll through your open apps. To close all apps, tap **Clear all**.
- Tap  to open the Settings menu.
- Tap  to open the annotation app.
- Tap  to open the OSD menu.
- Tap  in the center and drag the annotation toolbar to your preferred location on the screen.

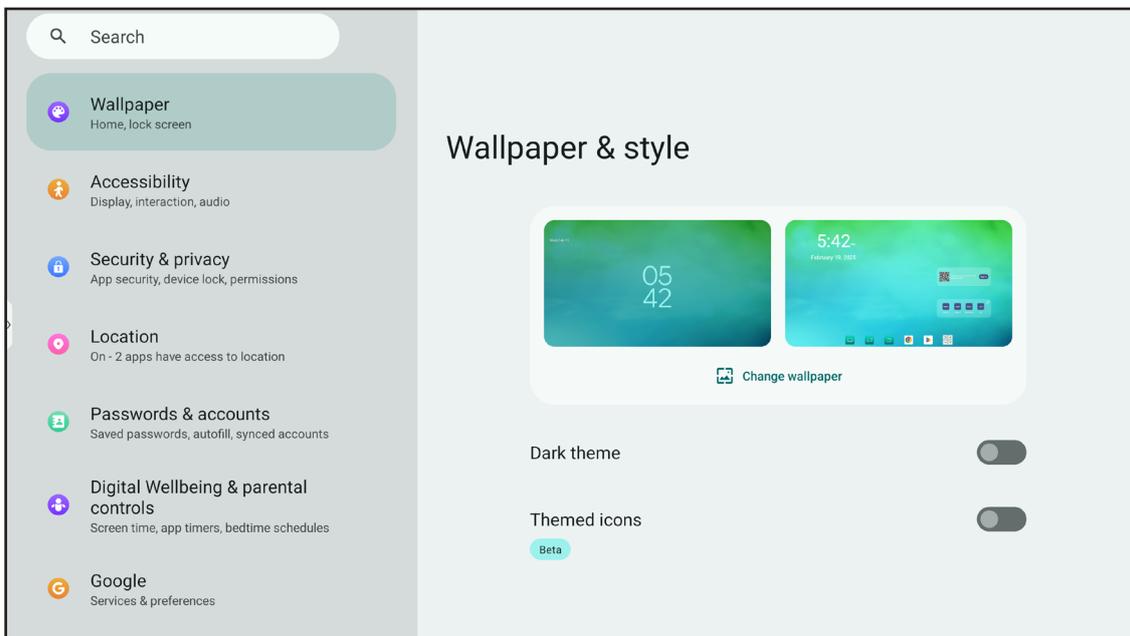
BASIC OPERATIONS

More Home Screen Features

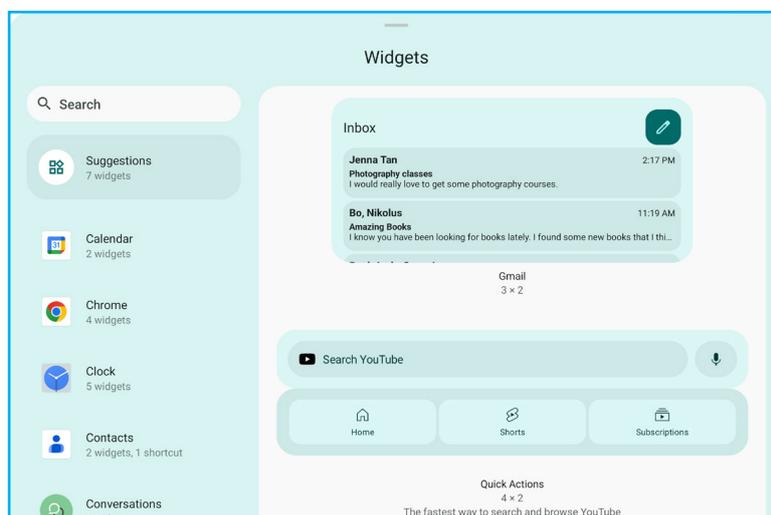
Touch and hold on the Home screen to change the Home screen wallpaper & style, add widgets, and configure the Home screen settings.



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



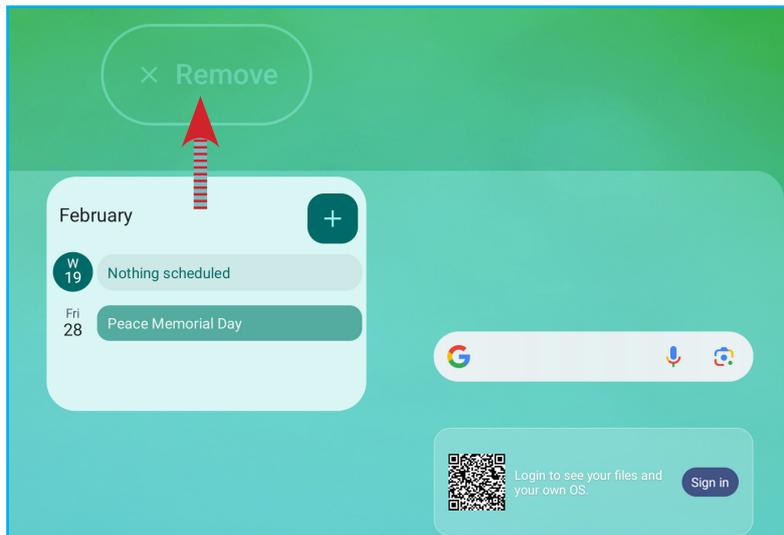
- Tap **Widgets** to add more widgets to the Home screen. You can search for a widget or select it from the list. To add the widget, touch+hold and drag it to the Home screen.



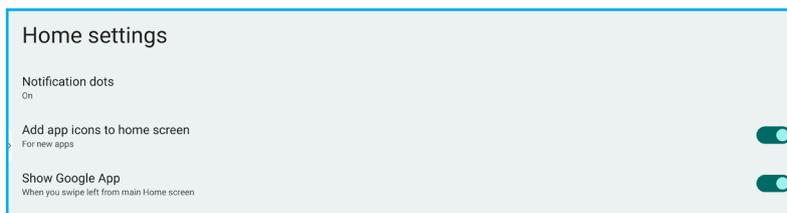
BASIC OPERATIONS

More Home Screen Features (Continued)

Note: To remove the widget, touch+hold and drag it towards the upper edge of the screen over the wording “Remove”, then release to remove the widget.



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

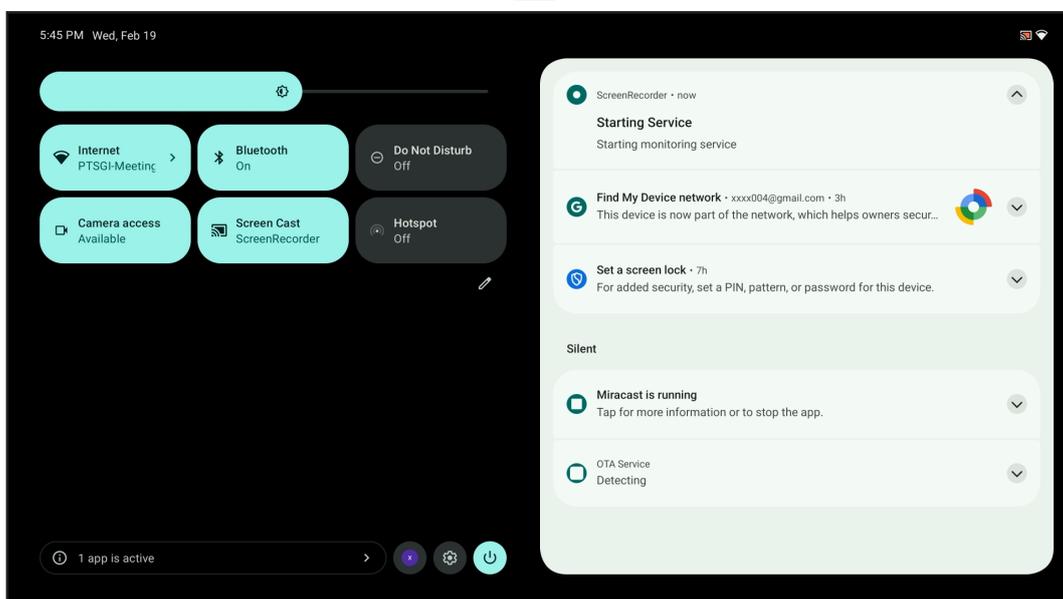


Quick Settings Panel

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 quick access settings, configure the account settings (A), open the Settings menu (⚙️), power off or reboot the IFP (🔌), and read any notifications.

Note: To manage the quick access settings panel, tap .

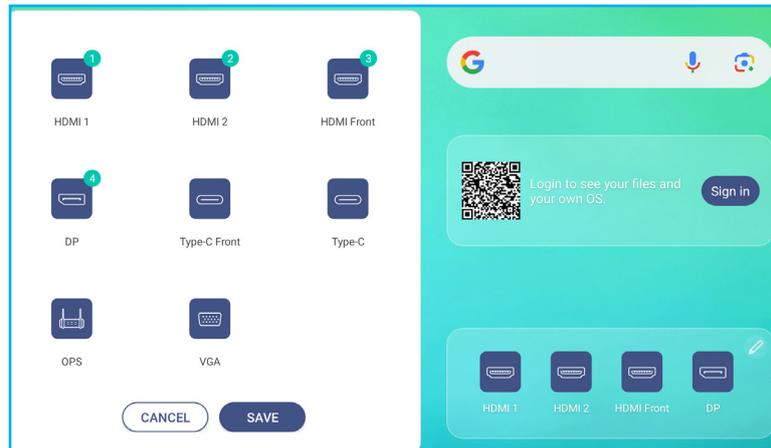


To close the quick settings panel, swipe up.

BASIC OPERATIONS

Manage the Input Source Shortcuts

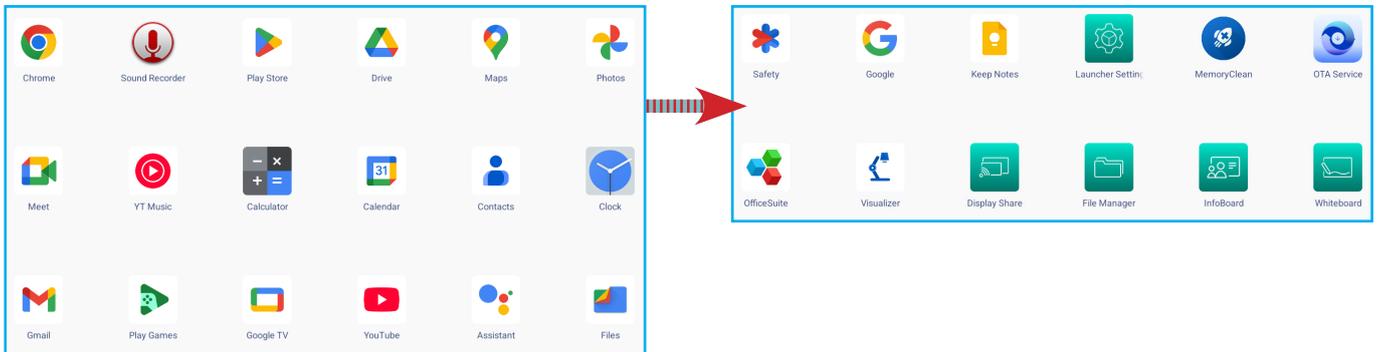
To manage the input source shortcuts on the Home screen, tap . You can add up to 4 input source shortcuts. To modify the default shortcuts, first tap on the shortcut you want to remove and next tap on the shortcut you want to add. Those shortcuts that appear on the Home screen, are marked with the green circles. When finished arranging the shortcuts, tap **SAVE** to save your changes or tap **CANCEL** to return to the Home screen without making any changes.



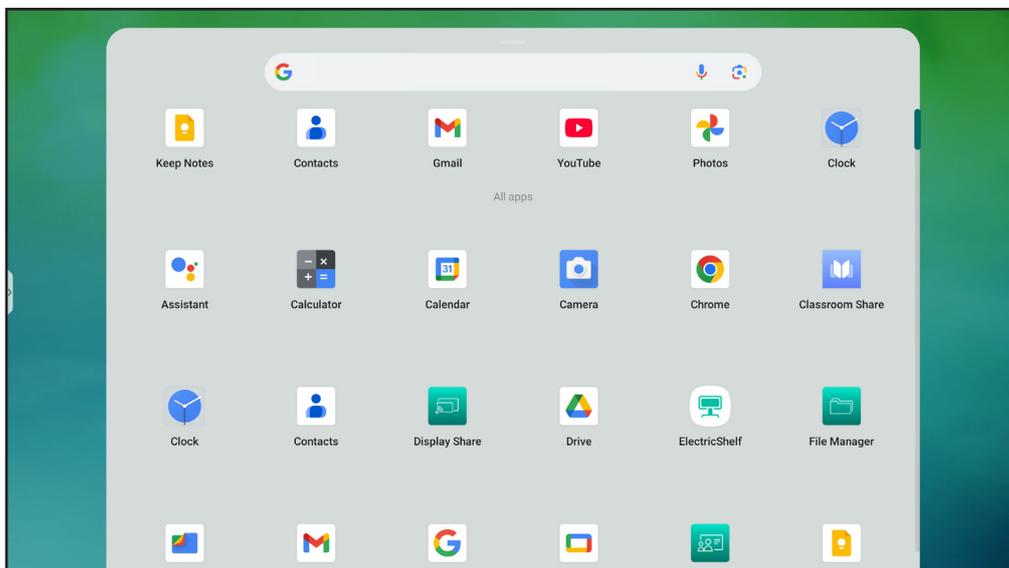
USING THE APPS

To view all the apps, do either of the following:

- Tap **☰** on the **Side toolbar**. Then, swipe to the left or to the right on the screen to switch between the App screen pages.



- Swipe up on the screen or press the **Apps** **☰** key on the remote control. Swipe up/down or use the remote control to scroll through all the installed apps.



Note: If you require the installation of a third-party app outside of the Google Play Store, you must first enable **Unknown sources** by going to the: **Security** ⇒ **Advanced Settings** menu. Refer to “Configuring Security Settings” on page 50.

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

IMPORTANT! Optoma recommends only installing approved apps from the Google Play Store, but cannot guarantee compatibility of the IFP with other apps. The embedded Android 14 operation system or IFP 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 interactive flat panel. 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 interactive flat panel. 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

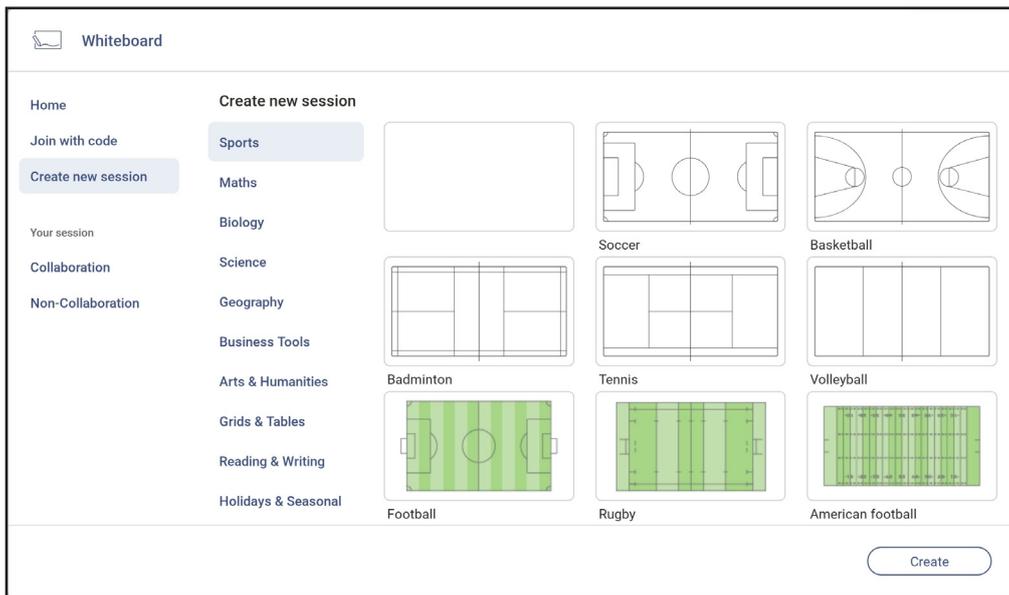
Whiteboard

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/>.



Tap  on the Home screen,  in the **Side toolbar**, or press the **Note**  key on the remote control to open the **Whiteboard**.



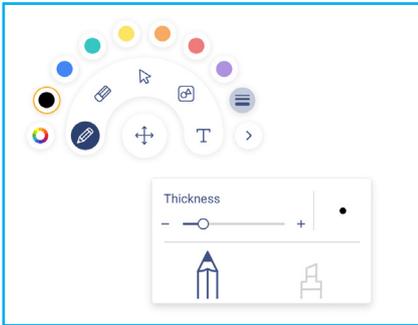
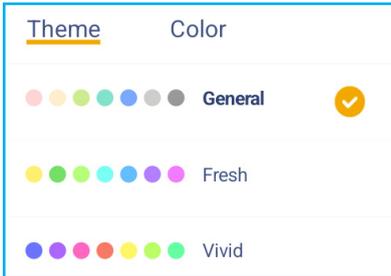
To start using the app, do the following:

1. Tap 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, tap on the **Home** tab and under Recent category tap on the session you want to continue.
 - To open a collaboration (saved to the cloud) or non-collaboration (saved locally) session, under Your session category, tap on the session you want to continue.
2. Tap **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	Tap and drag or long-tap on the screen to move the floating toolbar to your preferred location on the screen. 
 Minimize the floating toolbar	Tap on the  icon to minimize the floating toolbar. Tap  to expand the floating toolbar.

USING THE APPS

Whiteboard (Continued)

Item	Description
 Pen-tip options	<p>Write or draw a freeform line. Tap to select the desired line color and thickness.</p>  <p>- To show more pen-tip options, tap on the  to expand and view all available options.</p>  <p>- Tap  to modify the color palette. You can select five palette colors based on the theme or select them individually.</p>  <p>IMPORTANT! Avoid damaging the virtual whiteboard. For writing and drawing, use ONLY the supplied touch pen or your fingers.</p> <p>Note:</p> <ul style="list-style-type: none"> • Touch pen is supplied with thin tip and thick tip. Whiteboard can detect automatically which tip (  accordingly) you are using and displays the options based on the tip thickness. • If you are using your fingers to write or draw on the virtual whiteboard then it is considered as using a “thick tip pen”.

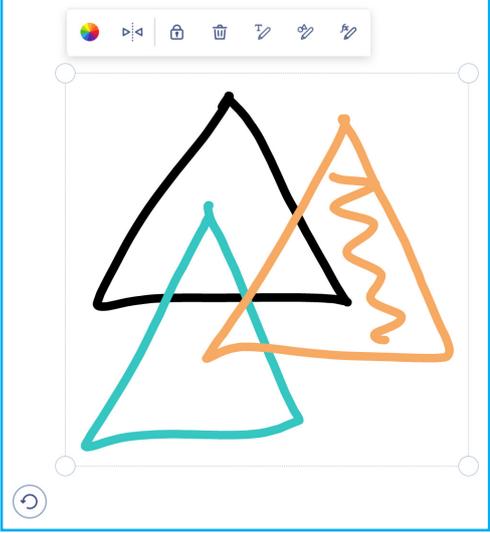
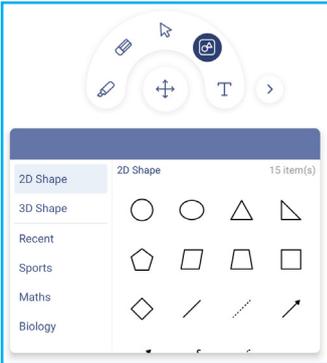
USING THE APPS

Whiteboard (Continued)

Item	Description
 Eraser	<p>Erase areas of your written text or drawings. Select the eraser size and drag your selected pen-tip or finger over the area you want to erase.</p>  <p>Note: You can also use the palm of your hand or the back of your closed fist to erase objects on the whiteboard.</p> 

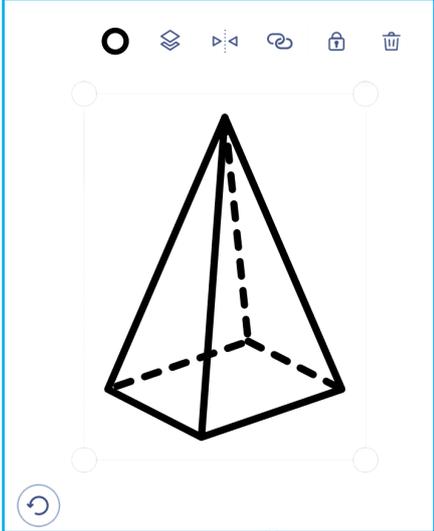
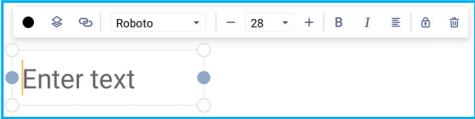
USING THE APPS

Whiteboard (Continued)

	Item	Description
	Select	<p>Select an object on the whiteboard. Tap any of the following to alter the selected area:</p>  <ul style="list-style-type: none"> •  (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.
	Geometric shape	<p>Tap to select the desired 2D, 3D shape directly or from a category.</p> 

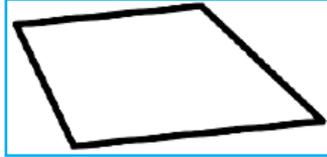
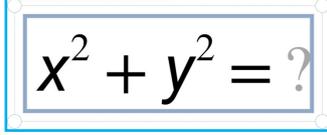
USING THE APPS

Whiteboard (Continued)

Item	Description
 Geometric shape	<p>After selecting the shape, tap and drag to add it to the whiteboard. Tap any of the following to alter the shape:</p>  <ul style="list-style-type: none"> •  (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.
 Text editor	<p>Open the text editor and add text.</p> 

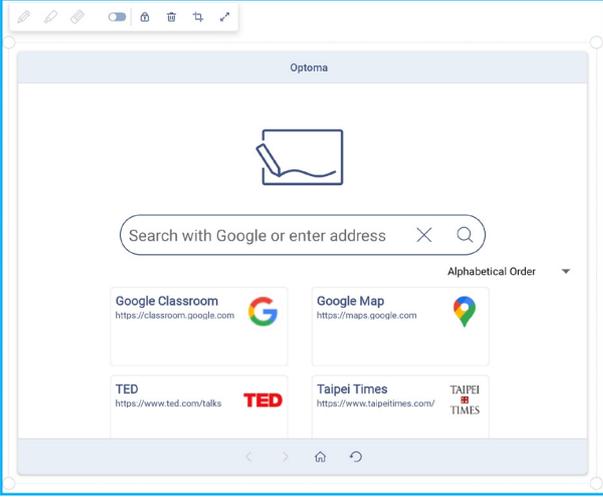
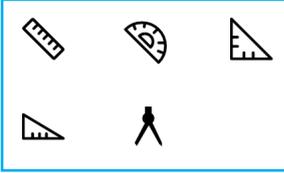
USING THE APPS

Whiteboard (Continued)

Item	Description
<p style="text-align: center;">Automatic recognition</p>	<p>Whiteboard can recognize your handwriting or drawing and can convert it into a digital format.</p> <ol style="list-style-type: none"> Write or draw on the screen. Use the select tool  to select the text or drawing. The following pop-up menu opens: <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">  </div> Tap any of the following: <ul style="list-style-type: none">  change the color.  rotate 90 degrees.  lock the object and location.  delete.  detect text/symbols. Select the correct text from the list and tap  to accept it or tap  to reject it and revert back to the handwritten text. <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">   </div> <div style="font-size: 2em; color: red;">→</div> <div style="border: 1px solid black; padding: 5px;"> <p style="margin: 0;">Good</p> <p style="margin: 0;">Goad</p> <p style="margin: 0;">Goed</p> <div style="display: flex; justify-content: space-between; margin-top: 5px;">  <div style="border: 1px dashed black; padding: 5px; text-align: center;"> Good </div>  </div> </div> </div> <ul style="list-style-type: none">  detect a geometric shape. <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">   </div> <div style="font-size: 2em; color: red;">→</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> </div>  detect the handwritten function/formula and convert to typed text function/formula. <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">   </div> <div style="font-size: 2em; color: red;">→</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">  </div> </div>

USING THE APPS

Whiteboard (Continued)

Item	Description
<p>> More tools</p>	<p>Tap any of the following tools:</p>  <ul style="list-style-type: none"> •  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. <p>Note: To add AI generated notes, you need to log in with your Optoma account.</p> <ul style="list-style-type: none"> •  embed a fully functional web browser window. You can lock the position of the browser window, capture screenshots, resize, relocate, delete it, and more.  <p>Note: To customize the list of website URLs, log into your Optoma Whiteboard account and add your custom list.</p> <ul style="list-style-type: none"> •  embed a document camera. •  embed interactive geometric tools. 
<p>+</p>	<p>Add a page. To add a page, tap the + on the bottom of the whiteboard canvas.</p> 

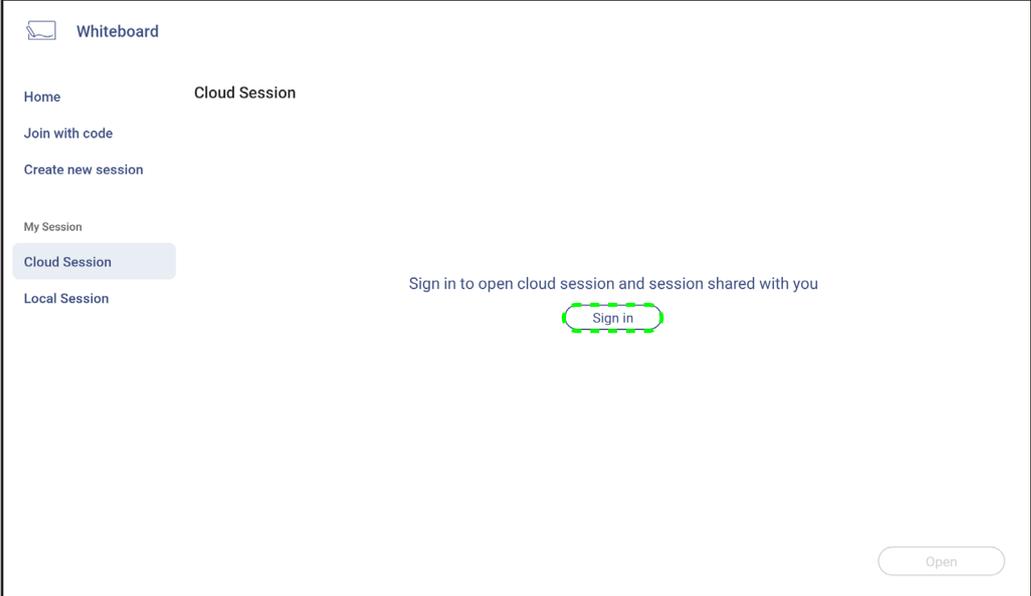
USING THE APPS

Whiteboard (Continued)

Item	Description
	<p>Tap  on the bottom toolbar and then tap any of the following options:</p> <ul style="list-style-type: none"> • New to create a new session. • Open to open a collaboration or non-collaboration session. • Save/Save As to save/save as the current content to collaboration or non-collaboration 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 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. <p>Note: To share the whiteboard session by the QR code, make sure the other device is connected to the same Wi-Fi as the IFP.</p>
	<p>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.</p>
	<p>View and manage all pages that are part of the current session. Tap any of the following:</p> <div data-bbox="804 1106 1083 1196" style="border: 1px solid blue; padding: 5px; margin: 10px auto; text-align: center;">  </div> <ul style="list-style-type: none"> •  OR  to open the previous or next page. • Page number, for example 2/3 to open the page manager: <div data-bbox="432 1312 1458 1592" style="border: 1px solid blue; padding: 10px; margin: 10px auto;"> <div style="display: flex; justify-content: space-around; font-size: small;"> 1 2 3 </div> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid gray; width: 150px; height: 80px; position: relative;">  </div> <div style="border: 2px solid orange; padding: 5px; display: flex; flex-direction: column; align-items: center;"> <div style="width: 100%; height: 100%; background-color: #d9e1f2;"></div> <div style="display: flex; justify-content: space-around; width: 100%;"> +  + </div> </div> <div style="border: 1px solid gray; width: 150px; height: 80px;"></div> </div> <p style="margin-top: 5px;">(Page 3 / 15)</p> </div> <p>Tap  on the left side to add a page to the left or on the right side to add a page to the right.</p> <p>Tap  to delete the selected page.</p>

USING THE APPS

Whiteboard (Continued)

Item	Description
Sign in	<p>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 tap Sign in.</p> 

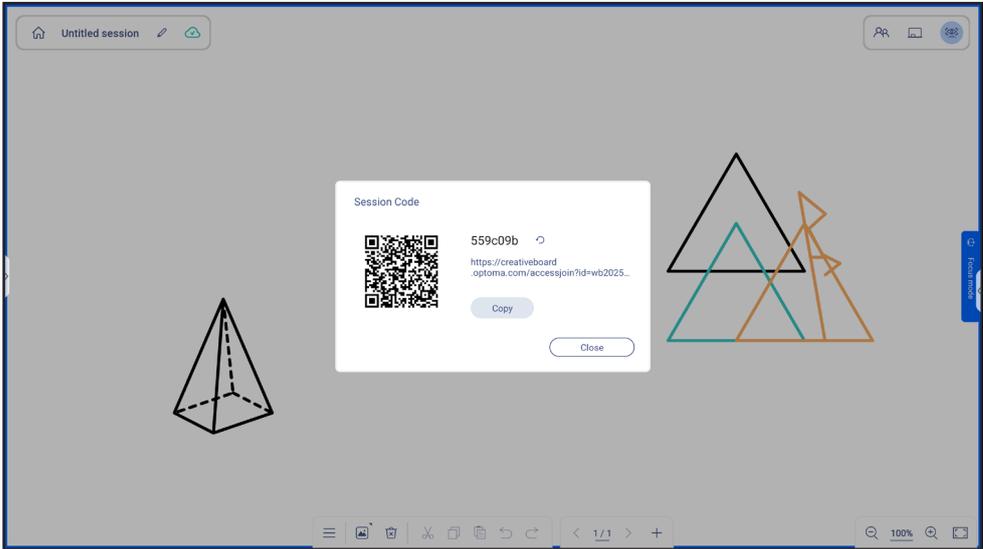
USING THE APPS

Whiteboard (Continued)

Item	Description
<div data-bbox="129 1151 177 1189" style="display: inline-block; vertical-align: middle; margin-right: 10px;"> </div> <div data-bbox="199 1137 360 1200" style="display: inline-block; vertical-align: middle;"> <p>Attendees management</p> </div>	<p>Invite attendees to join the Whiteboard session.</p> <p>On the Attendees tab in the upper right corner, tap and then select any of the following options:</p> <div data-bbox="475 501 1414 1061" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> </div> <ul style="list-style-type: none"> • Google Classroom • Email • Session Code <p>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.</p> <p>Tap to access the Group tab. Then tap and enter the group information, such as group name and attendees. Tap Save.</p> <div data-bbox="721 1413 1166 1901" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p>Create new group</p> <p>Group name Enter a group name</p> <hr/> <p>Choose attendee</p> <p>Search</p> <hr/> <p><small>*An attendee can only be assigned to one group. *Once you have assigned a new group to an attendee, the previous group settings will be replaced with the new one.</small></p> <p><input type="checkbox"/> BT [Profile Icon] [Name] [Email]</p> <p style="text-align: right;"> <input type="button" value="Cancel"/> <input type="button" value="Create"/> </p> </div> <p>To modify group settings, tap .</p>

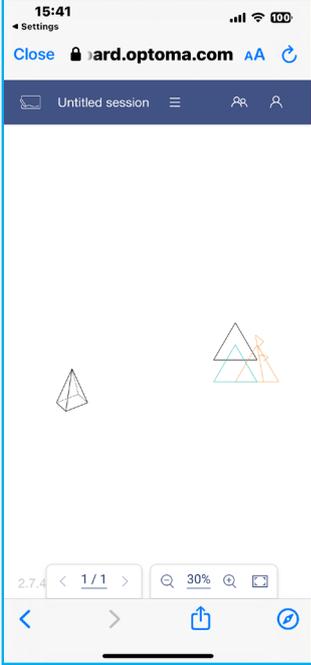
USING THE APPS

Whiteboard (Continued)

Item	Description
 <p>Google Classroom management</p>	<p>Tap Connect to connect to your existing Google Classroom, and add a class to sync.</p> <div data-bbox="719 423 1166 685" style="border: 1px solid #00aaff; padding: 10px; margin: 10px auto; width: fit-content;"> <p>Add a class from Google Classroom.</p> <p>Connect to your existing Google Classroom, and add a class to sync.</p> <p style="text-align: center;"> <input type="button" value="Connect"/> </p> <p style="text-align: center;"> <input type="button" value="Cancel"/> </p> </div>
 <p>Focus Mode</p>	<p>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.</p> <p>To activate Focus Mode, tap 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.</p> <p>Please note that the access permissions will differ for the owner, editors, and viewers under this mode:</p> <ul style="list-style-type: none"> • 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. <p>Join the session by scanning the QR code.</p> <div data-bbox="453 1189 1436 1738" style="border: 1px solid #000; padding: 10px; margin: 10px auto; width: 90%;">  <p>The screenshot shows a whiteboard interface in Focus Mode. At the top, it says 'Untitled session'. A central dialog box displays a 'Session Code' of '559c09b' and a QR code. Below the QR code is a 'Copy' button and a 'Close' button. The background features a 3D pyramid on the left and several overlapping triangles in black, teal, and orange on the right. A toolbar at the bottom includes icons for home, edit, share, and navigation, along with a page indicator '1/1' and a zoom level of '100%'.</p> </div>

USING THE APPS

Whiteboard (Continued)

Item	Description
 Focus Mode	<p>After scanning the QR code, you can see the current session on the screen of your portable device.</p>  <p>The screenshot shows a mobile device screen with a white background. At the top, the status bar displays the time 15:41, signal strength, Wi-Fi, and battery icons. Below the status bar is a browser address bar with the URL 'ard.optoma.com' and a 'Close' button. A dark blue header bar contains the text 'Untitled session' and icons for AR and user profile. The main content area features two 3D wireframe models: a tetrahedron on the left and a more complex geometric structure on the right. At the bottom, a navigation bar shows a page indicator '1/1', a search icon, a zoom level of '30%', and navigation arrows.</p>

USING THE APPS

Display Share

Tap  on the Home screen or  on 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 IFP 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

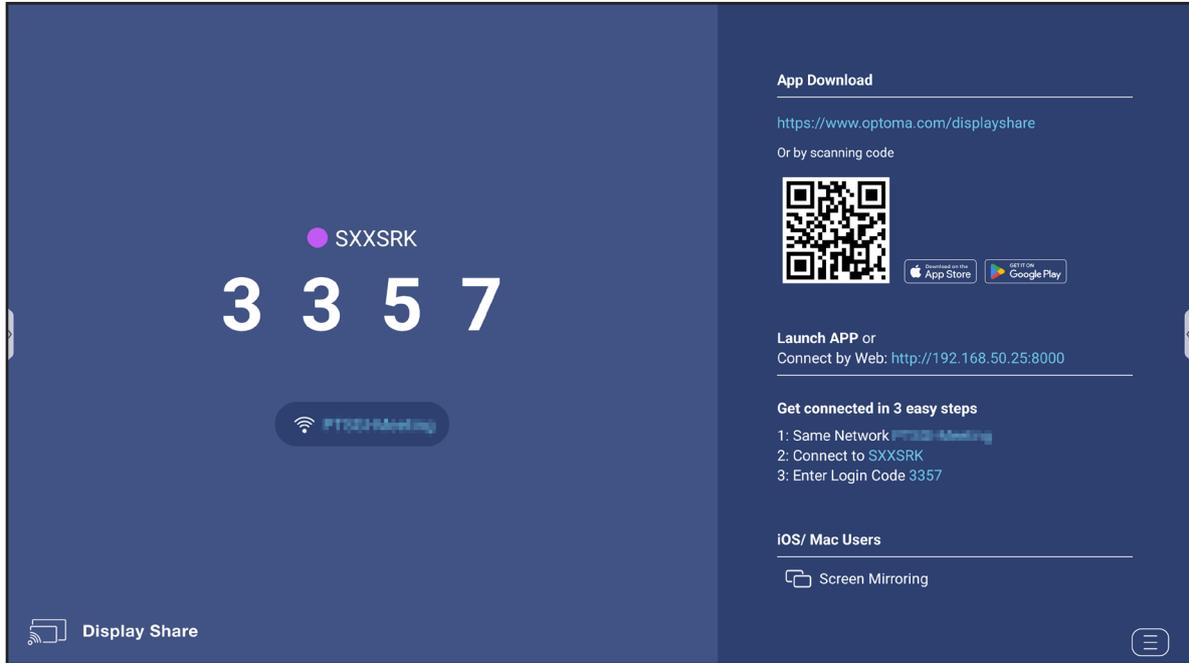
Features	Operation System
Web Sharing (Web Sender)	Chrome Browser
AirPlay Support	iOS 14 and above
ChromeCast	

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.

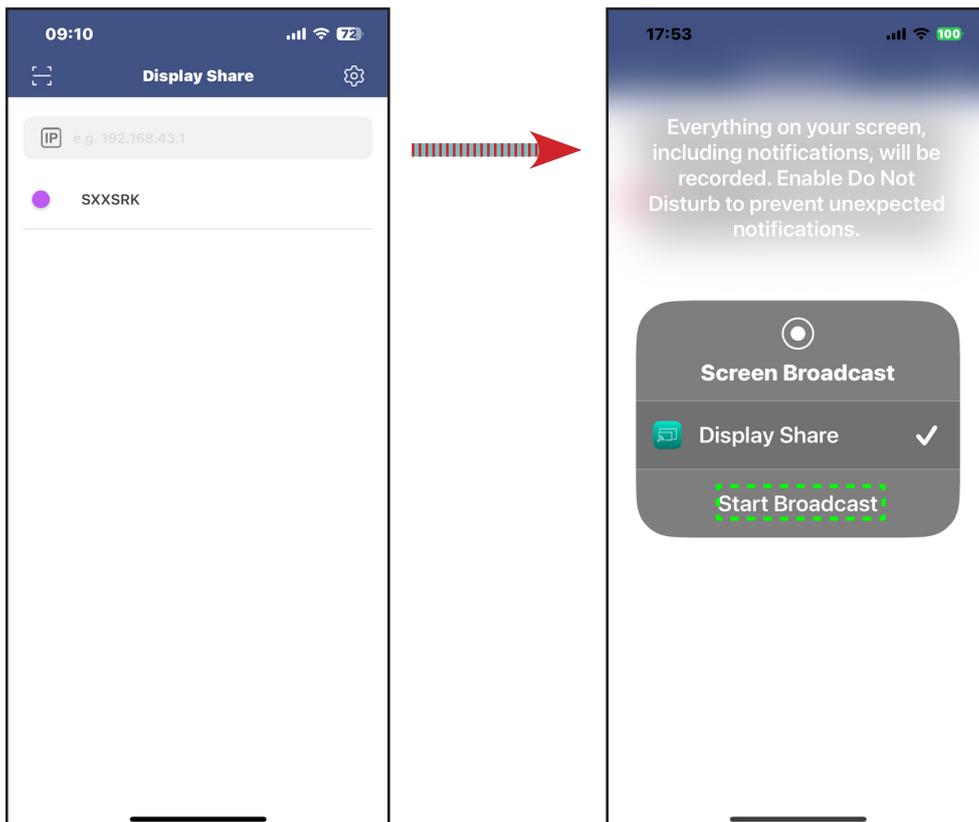
Note: You can also download the **Display Share** app from <https://www.optoma.com/displayshare> website.



To connect to the IFP, complete the following steps:

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

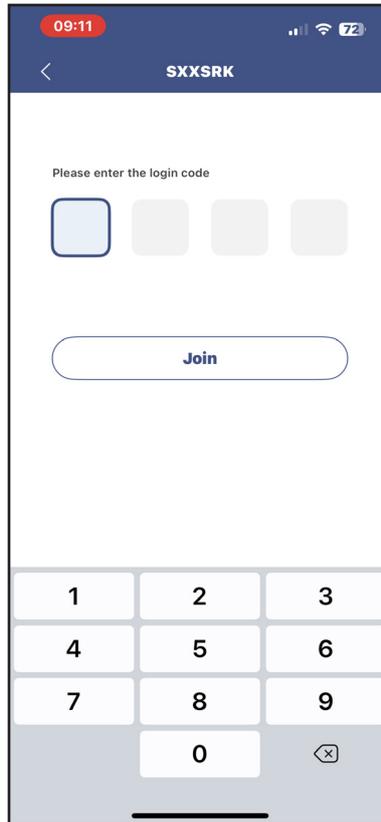
1. Launch the **Display Share**  app. Select the device and then tap **Start Broadcast**.



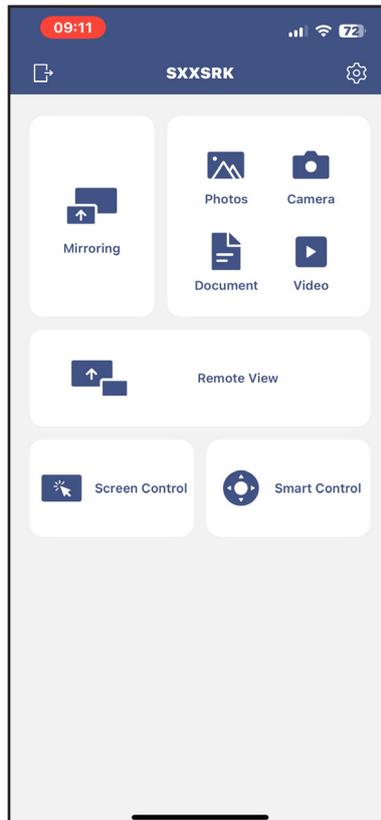
USING THE APPS

Mobile Device (Continued)

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



3. Tap any of the following:



USING THE APPS

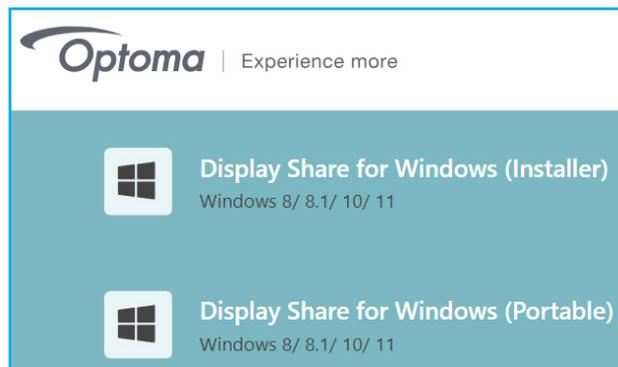
Mobile Device (Continued)

- **Mirroring** to mirror your mobile device's screen to the IFP.
 - **Photos** to view and share photos.
 - **Camera** to stream your mobile device's camera to the IFP.
 - **Document** to view and share documents.
 - **Video** to view and share videos.
 - **Remote View** to mirror the IFP screen to your mobile device with annotation and image saving feature.
 - **Screen Control** to mirror the IFP screen to your mobile device. You can use your mobile device to operate the IFP.
 - **Smart Control** to use your mobile device as a remote control to control the IFP.
 - **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://192.168.50.77> or download and install **Display Share for Windows** from <https://displayshare.optoma.com/> website.



USING THE APPS

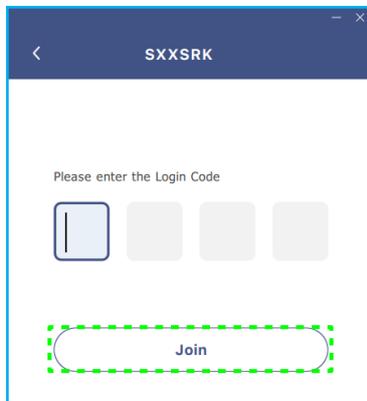
Computer (Continued)

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

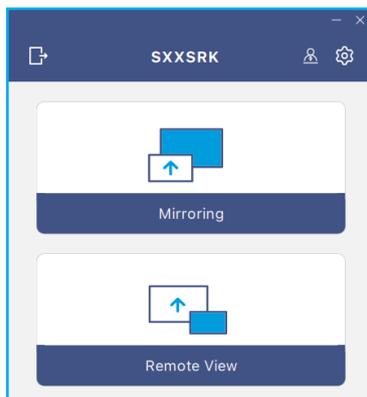
1. Launch the **Display Share**  app and click on the device you wish to connect to.
 - If the IFP is not visible in the Room List, enter the IFP's IP address manually into the **Input IP address** field. Press **Enter** to start searching for the device.



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



3. Click any of the following:

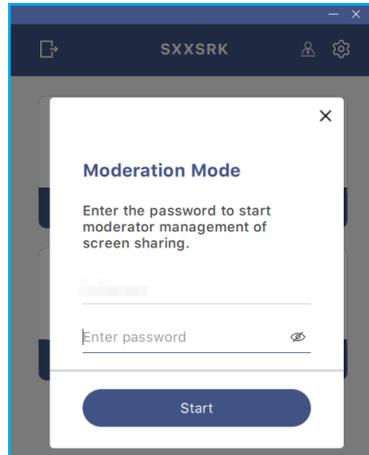


- **Mirroring** to mirror your computer's screen to the IFP.
- **Remote View** to mirror the IFP screen to your computer with the ability to annotate and save the image.
- **Settings**  to change the username, view the **Display Share** version, and read the Open Source License.

USING THE APPS

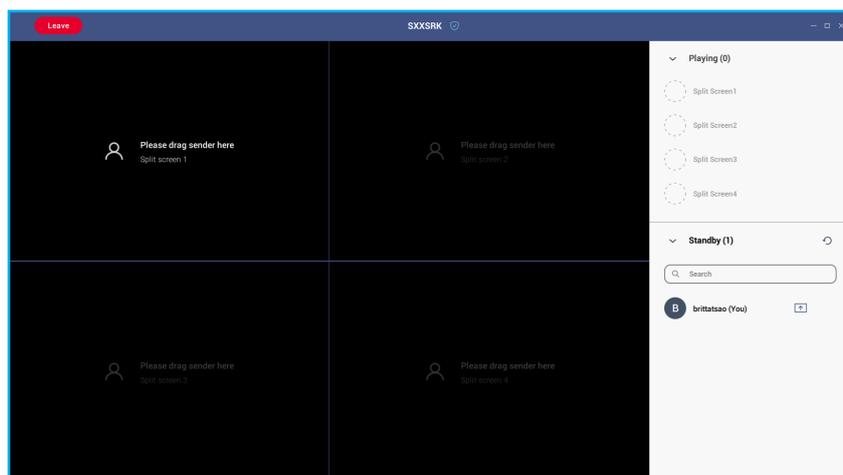
Computer (Continued)

- **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 94.

You can select up to 4 screens to display on the IFP. 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

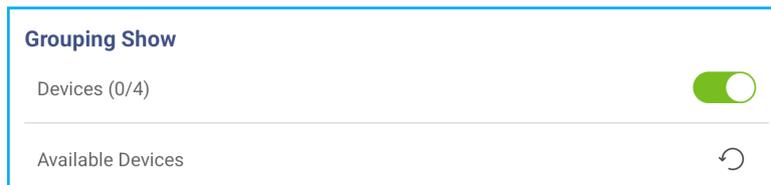
Display Share Configuration

Tap  to open the Display Share menu.

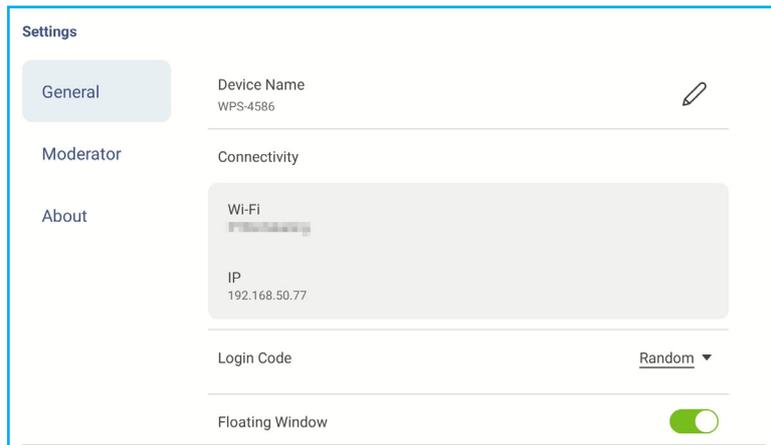


Tap on any of the following icons to configure the **Display Share** settings:

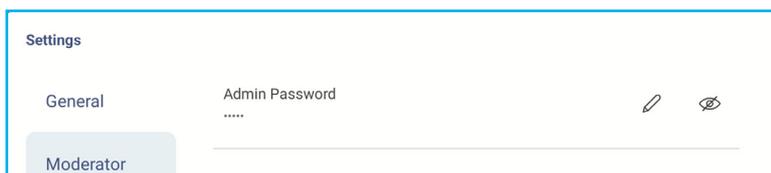
- **Annotation** : Open the annotation tool.
- **Grouping** : All IFP devices that are in the same domain can be searched and up to 4 devices can be selected to project the same screen. To refresh the list of available devices, tap .



- **Settings** : Manage the general and moderator settings, view the **Display Share** app version, and read the Open Source License. Tap 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.



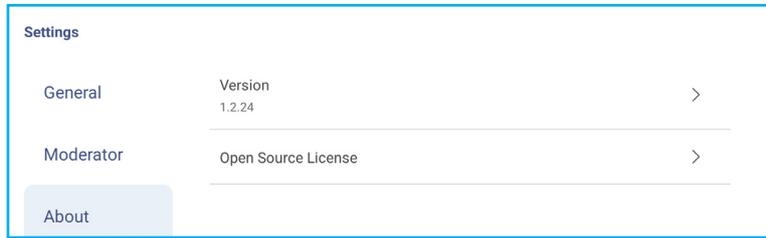
- Moderator tab: Modify the admin password. The admin password is used when logging in as a moderator in **Display Share**.



USING THE APPS

Display Share Configuration (Continued)

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



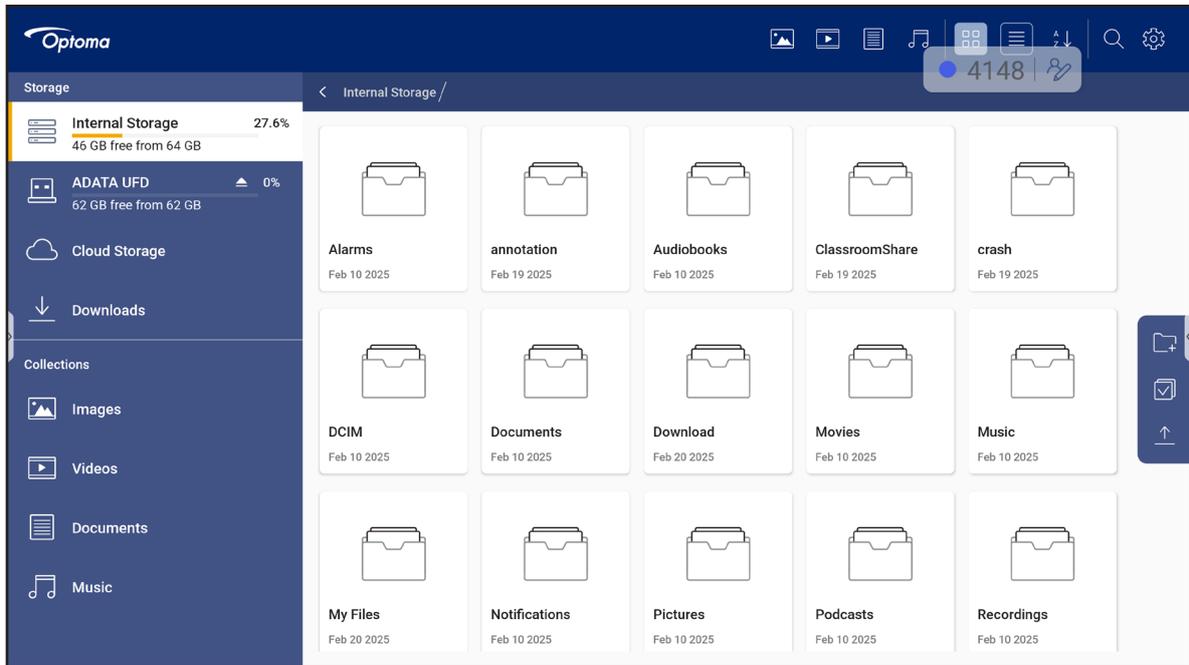
- **End session** : Tap this to end the current session and disconnect all the connected devices.
- **Close** : Close the menu.

USING THE APPS

File Manager

Tap  on the Home screen,  ⇒  in the **Side toolbar**, or press the **File viewer**  button on the remote control.

Managing Files

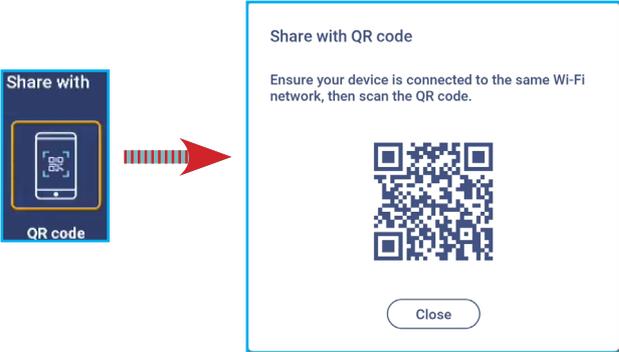
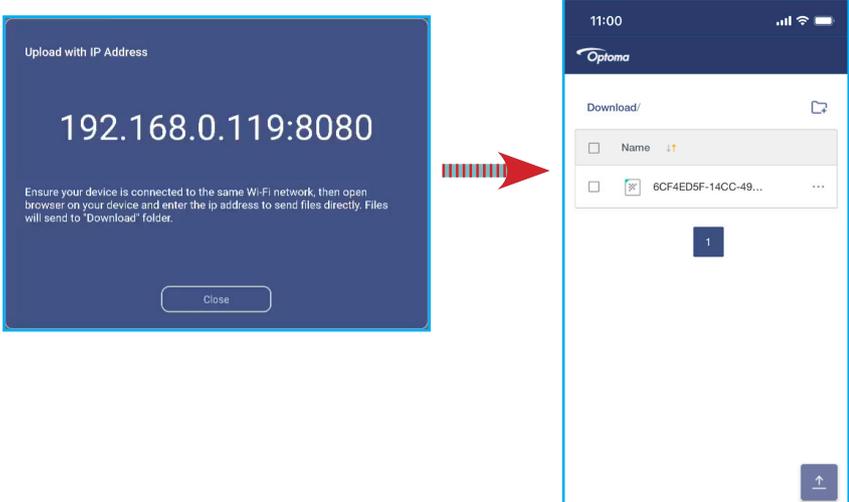


Select a storage location and browse for a file or folder you want to view then tap twice on a file or folder to open. The table below will help you navigate **File Manager** and its included features.

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

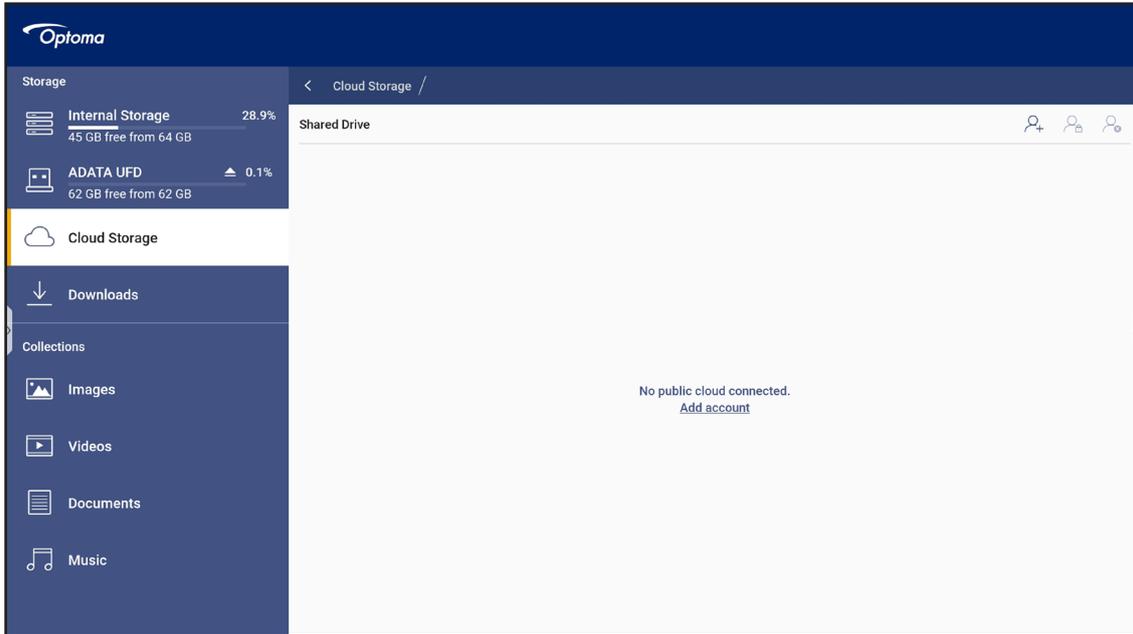
File Manager (Continued)

Item	Description
 <p>Select</p>	<p>Select files and folders. When selected, tap any of the following:</p> <ul style="list-style-type: none">  undo your last action.  check/uncheck all items.  cut and paste item(s).  copy item(s).  paste item(s).  delete item(s).  rename an item.  share an item via QR code. <p>Note: For file sharing via QR code, make sure your mobile device is connected to the same network as the IFP.</p> <div style="text-align: center;">  </div> <ul style="list-style-type: none">  compress item(s).  move/copy item(s) to another location or view item details.
 <p>Share item(s)</p>	<p>Share item(s) between the IFP and your mobile device via the web browser.</p> <div style="text-align: center;">  </div> <p>Note:</p> <ul style="list-style-type: none"> By default, all items that you upload to the IFP are saved to the Download folder. To upload items, make sure your mobile device is connected to the same network as the IFP.

USING THE APPS

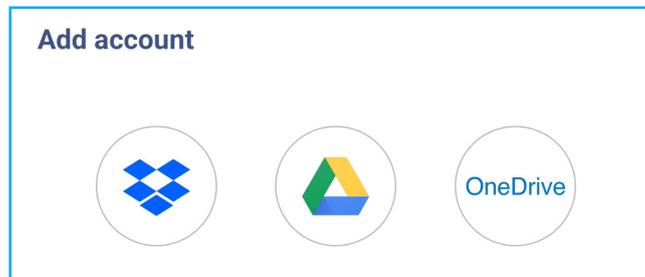
Cloud Storage

Tap **File Manager**  ⇒ **Cloud Storage**  to create an account or to pair and access an existing cloud storage account.

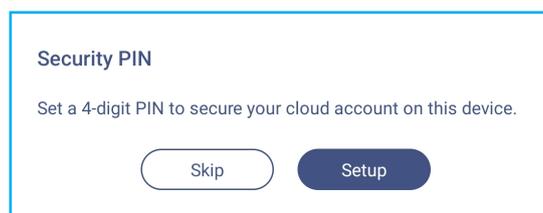


To create an account:

1. Tap  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. Tap **Setup** to set the PIN or **Skip** to skip this step.

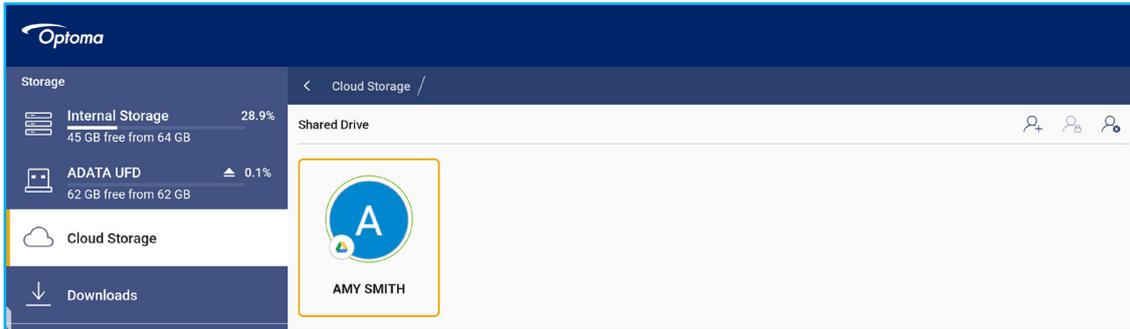


Note: PIN code is used to protect user's cloud storage from being illegally accessed. When system status changes (for example, from standby to normal, from backlight off to on), a user must key in the PIN code they set up for verification in order to access their cloud storage.

USING THE APPS

Cloud Storage (Continued)

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



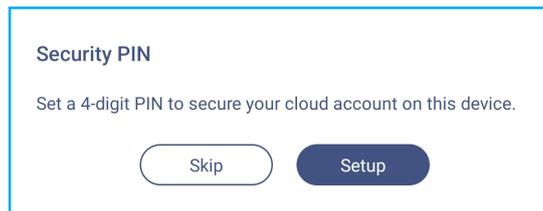
5. To manage your cloud storage account(s) in **File Manager**, tap any of the following:

-  to add another cloud storage account.
-  to lock the cloud storage account.
-  to delete the cloud storage account.

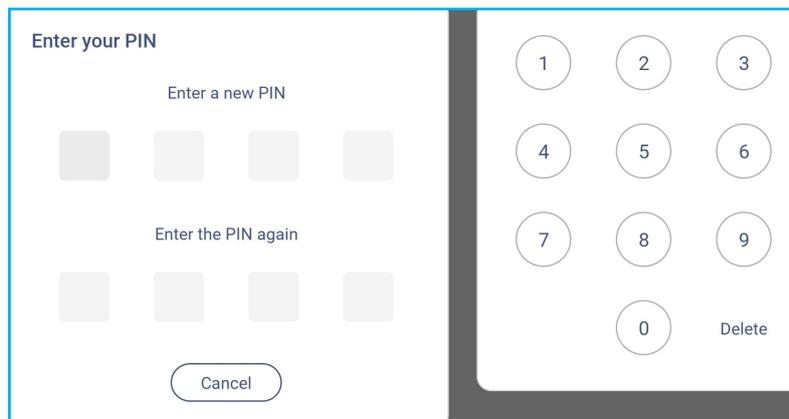
Note: Locking and deleting the cloud storage account in the **File Manager** will only prevent or remove access to that cloud storage in **File Manager** and will not lock or delete the cloud storage in its original location, for example in Google.

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

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



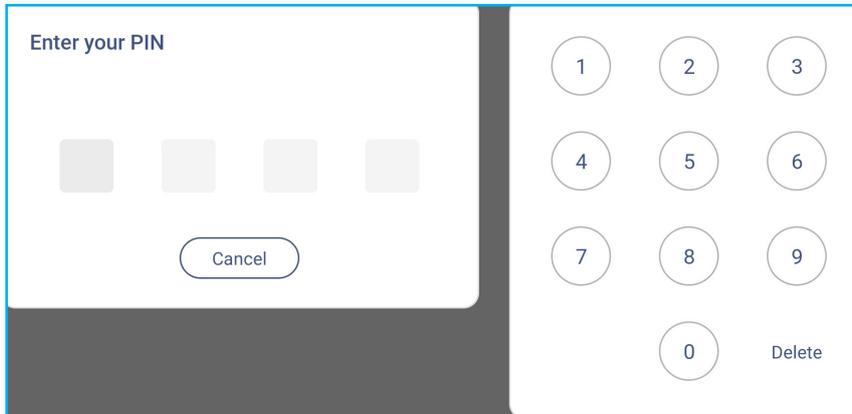
2. Enter a PIN code (4-digit number) in the **Enter a new PIN** field. Then enter the new PIN code again in the **Enter the PIN again** field.



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

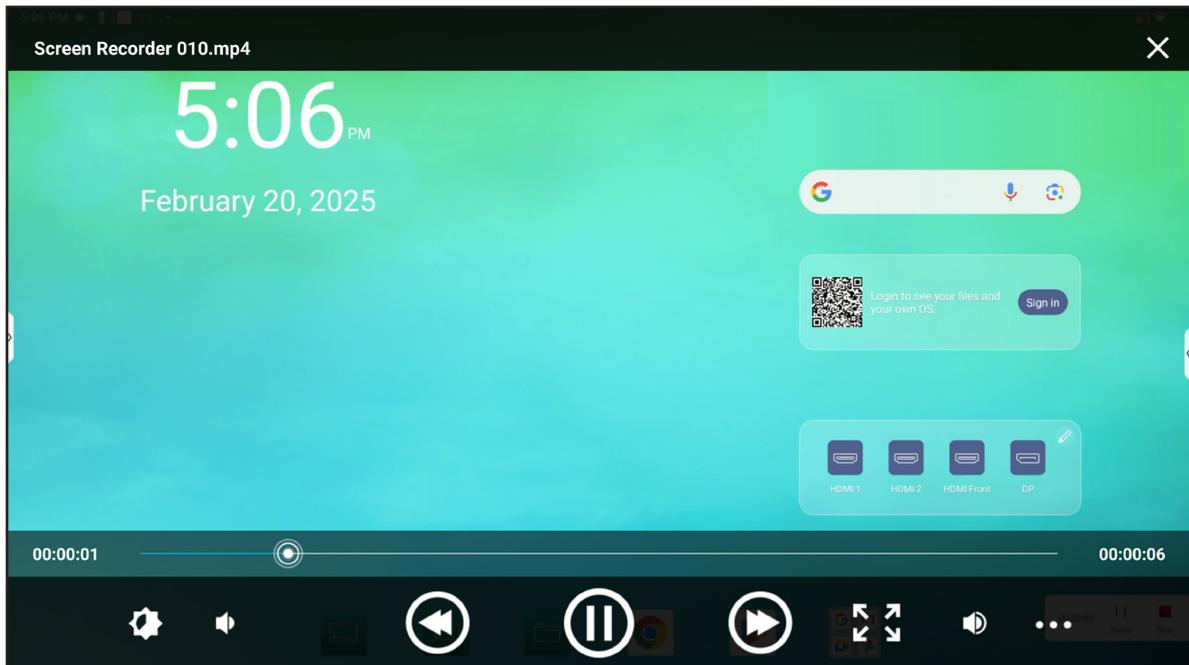
Photo

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 tap on it to start playback.



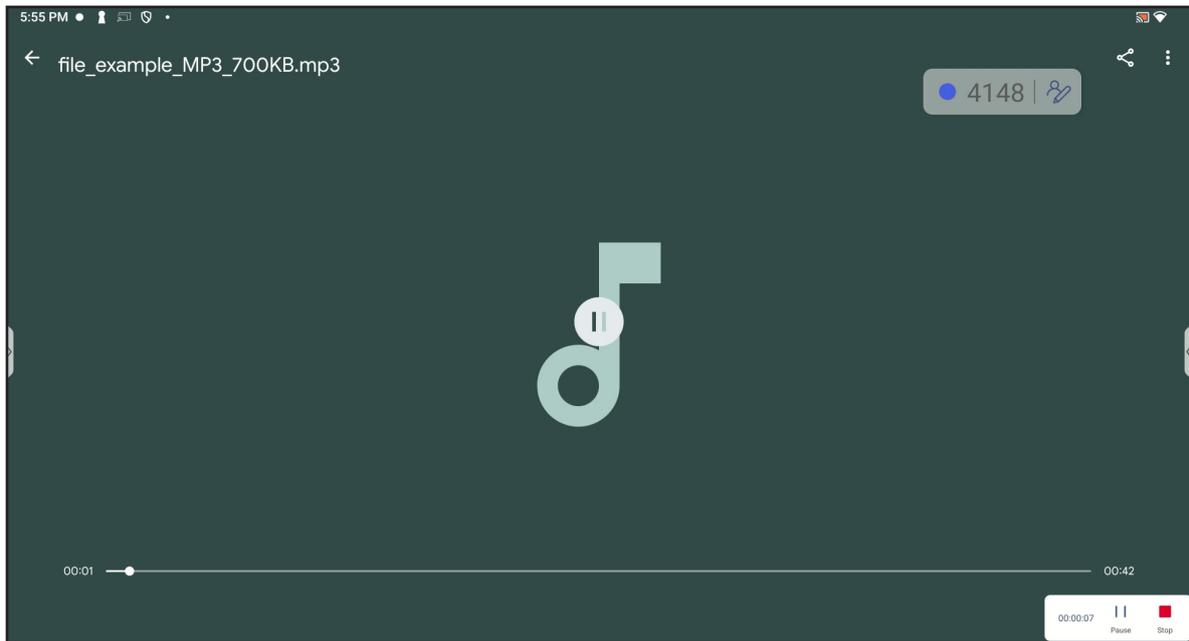
During playback tap on the screen to open the playback control toolbar. Then tap any of the following:

Item	Description
	Brightness toggle Adjust the brightness of the playback.
	Volume down Decrease the playback volume.
	Previous video Skip to the previous video.
	Pause/Play Tap  to pause the playback. To resume, tap  .
	Aspect ratio Select your preferred aspect ratio for playback.
	Volume up Increase the playback volume.
	Playback settings Select the play mode, subtitles priority, audio track, view help, and return to the playback.
	Exit Exit playback.

USING THE APPS

Playing music

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



During playback tap on the screen to open the playback control toolbar. The table below explains the functions available on the playback control toolbar.

Item	Description
	Tap  to pause playback. To resume, tap  .
	Share the audio file via Quick Share, Files by Google Bluetooth, Google Drive, or Gmail.
	View your audio file information.

Note: To stop playback, open the **Side toolbar** and tap  or press the **Return**  key on the remote control.

USING THE APPS

Viewing images

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



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

Item		Description
	Share	Share the image file via Quick Share, Files by Google, Google Photos (including image search), or send it to the printer.
	Lens	Use Google Lens.
	Help	View help and feedback.
	Cast	Cast your slideshow.

Note: To stop playback, open the **Side toolbar** and tap  or press the **Return**  key on the remote control.

USING THE APPS

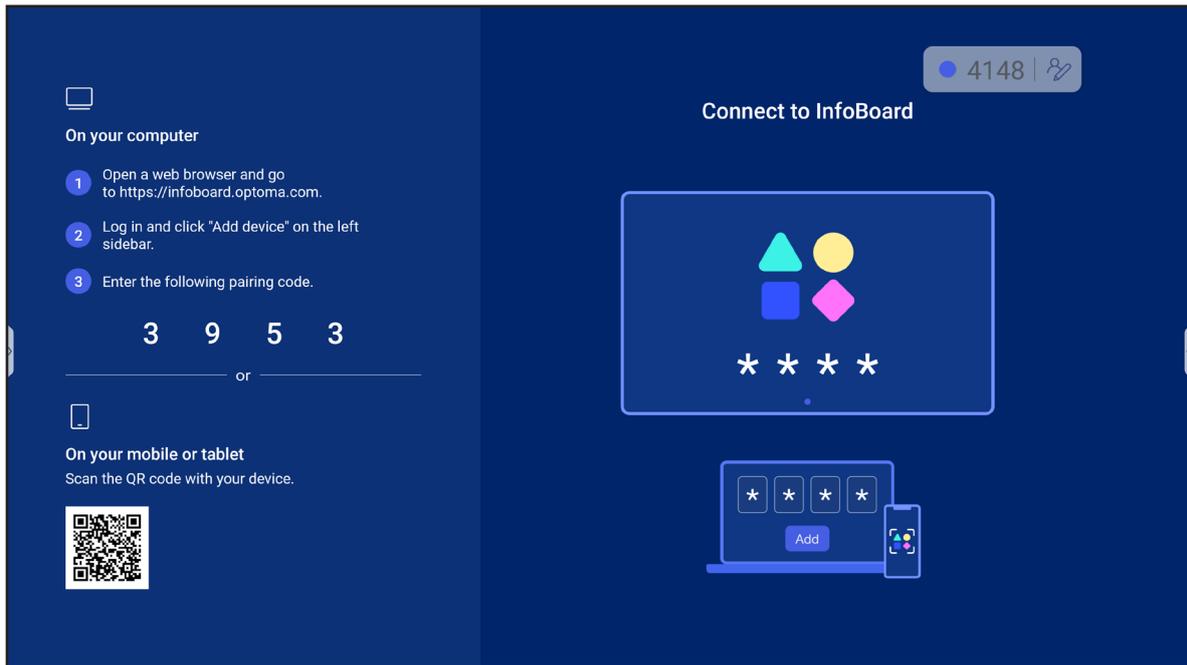
InfoBoard

Note: *InfoBoard* is a region-specific app and may or may not be available to you.

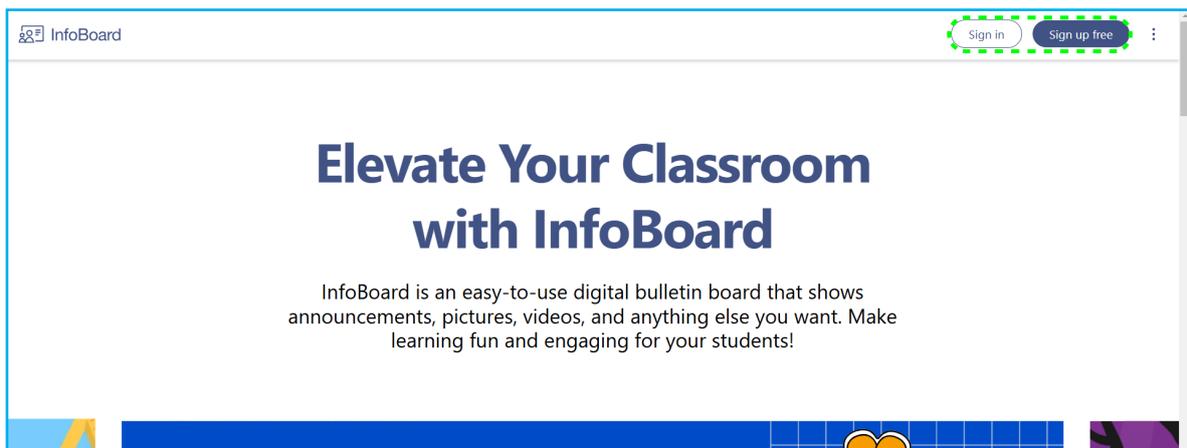
Tap **InfoBoard** to publish content from your InfoBoard account to the IFP.

To connect to the IFP, complete the following steps:

1. Launch the **InfoBoard**  app.



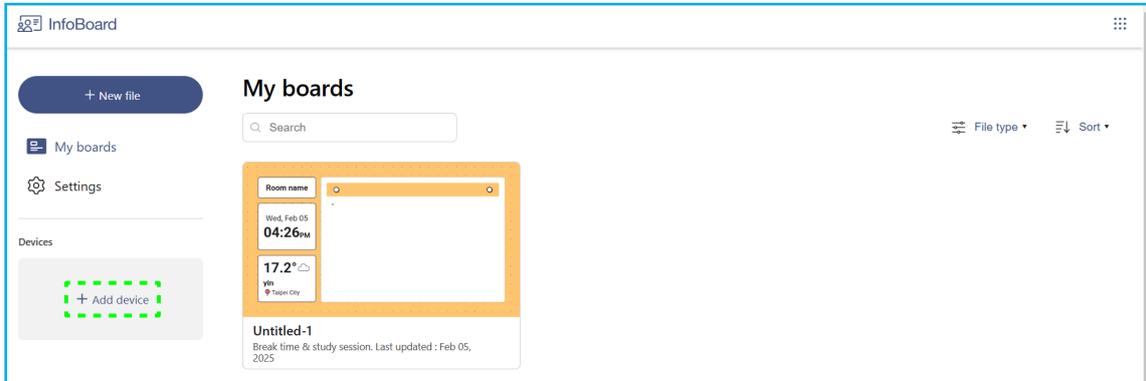
2. From your mobile device or tablet, scan the QR code on the **InfoBoard** launcher page.
3. Sign in to **InfoBoard** with your Optoma account or click **Sign up free** to create a new account.



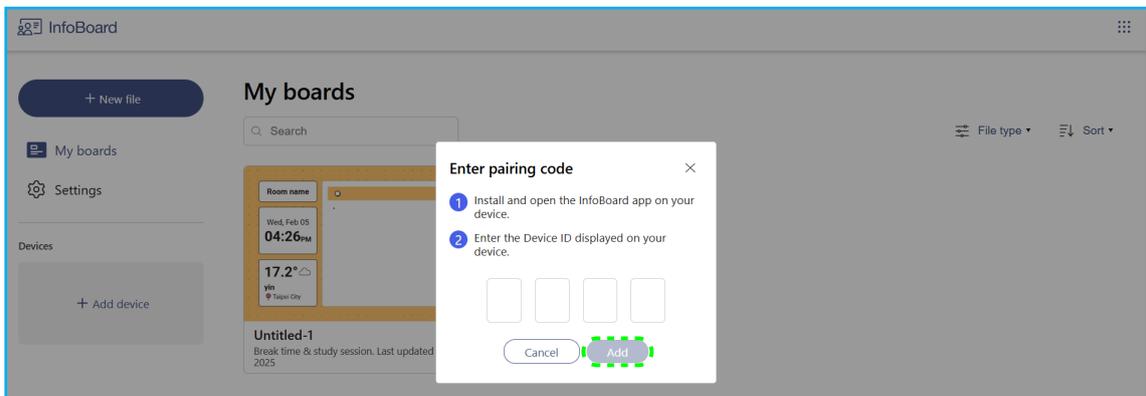
USING THE APPS

InfoBoard (Continued)

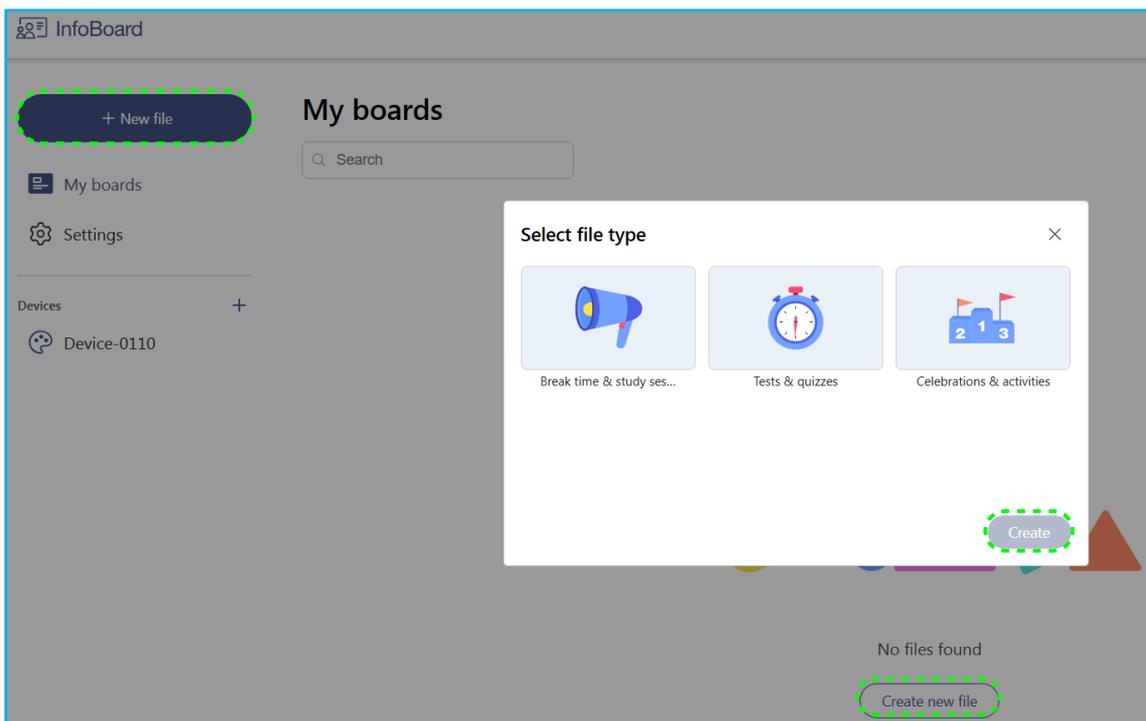
4. On the left side of the page, click **Add device**.



5. Enter the pairing code from the **InfoBoard** launcher screen on your IFP, then click **Add**.



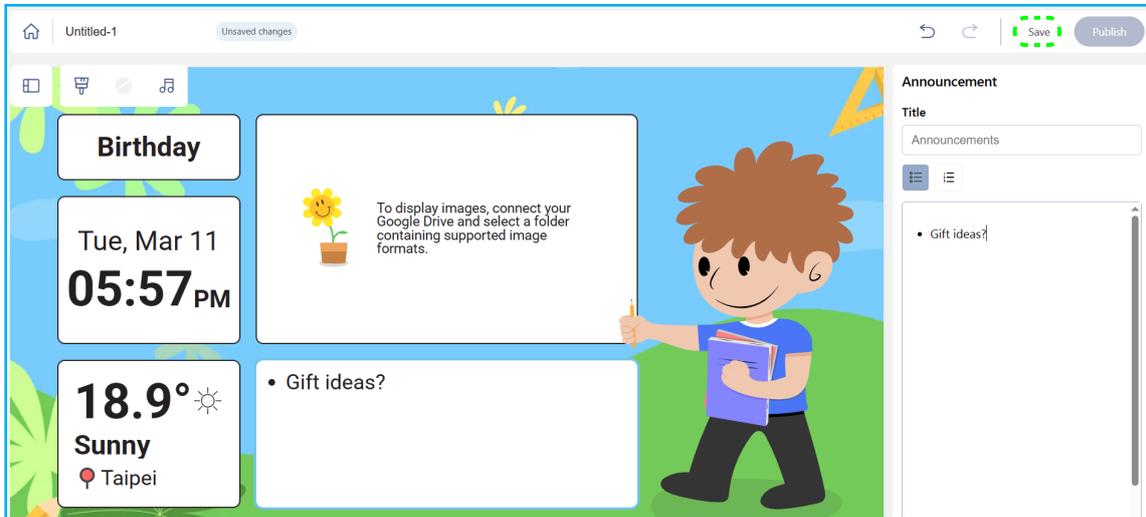
6. Click **+ New file** or **Create new file** on the bottom of the page to create a new board.
7. Select the file type and click **Create**.



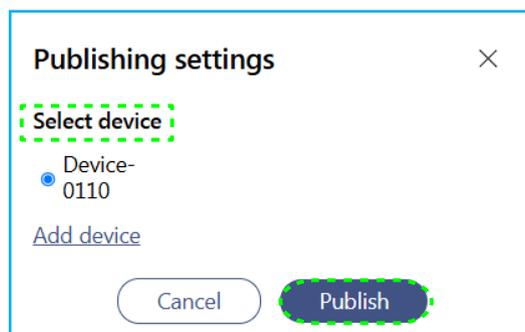
USING THE APPS

InfoBoard (Continued)

8. Enter the content and click **Save**.



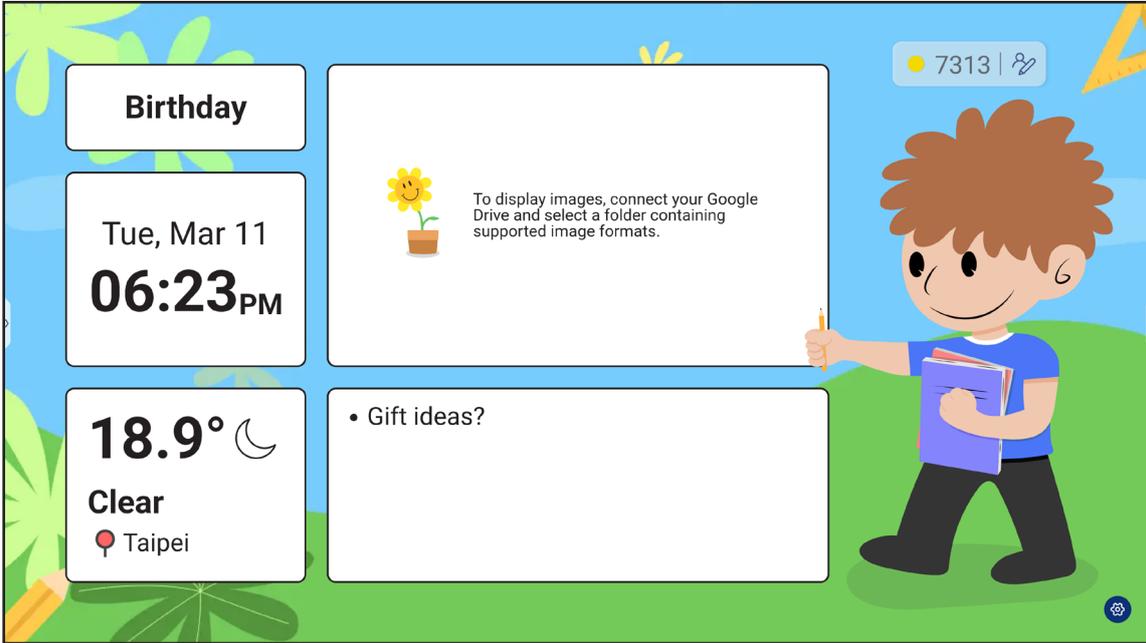
9. Click **Publish**. Select the device where you want to make the content available at the prompt and click **Publish** again.



USING THE APPS

InfoBoard (Continued)

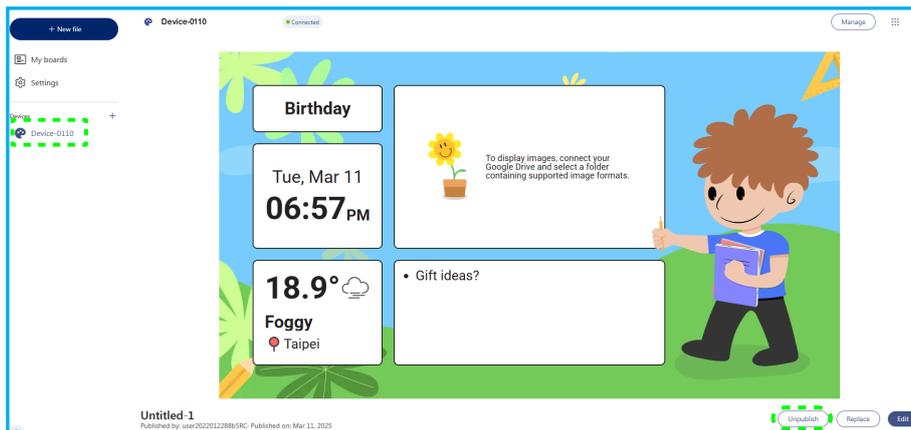
Note: If the IFP is not available in the list of devices, then click **Add device** and repeat Step 5. After publishing the content, it is displayed on the screen of the selected IFP.



Tap  to see **InfoBoard** settings. View the Owner of the content, **InfoBoard** version, read Open source license, and reset **InfoBoard** and link it to another account.

- To stop publishing the content, on your **InfoBoard** web page, select the IFP in the list of Devices. For example, "Device-0110". On the bottom of the page, click **Unpublish**.

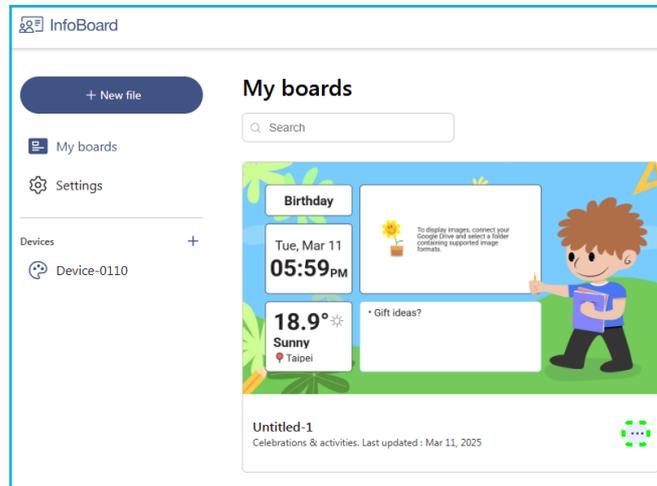
Note: On the Device page, you can also see the connection status and the currently published content. Click **Replace** to select a new board, click **Edit** to modify the current board, click **Manage** on top of the page to remove the device and invite more users to access this device.



USING THE APPS

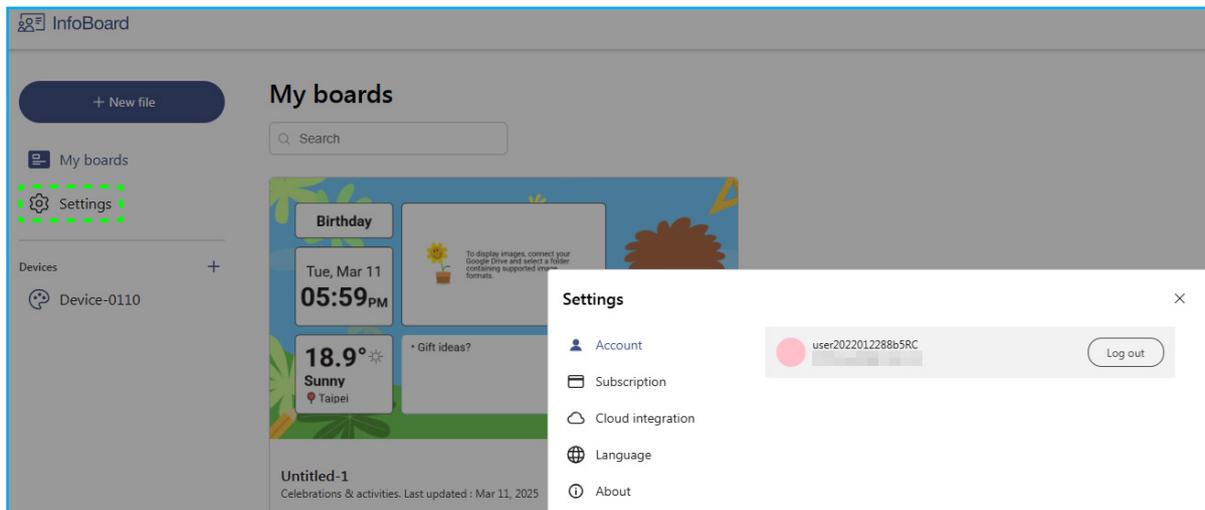
InfoBoard (Continued)

11. To manage your boards, click **My Boards**. Hover the cursor over the name of the board and click . Then select **Edit**, **Copy**, **Rename**, or **Delete** based on your needs.



Note: For better manageability, you can use the search function to find your boards. You can also arrange your boards by topics by clicking  or sort your boards by creation or modification timestamp by clicking .

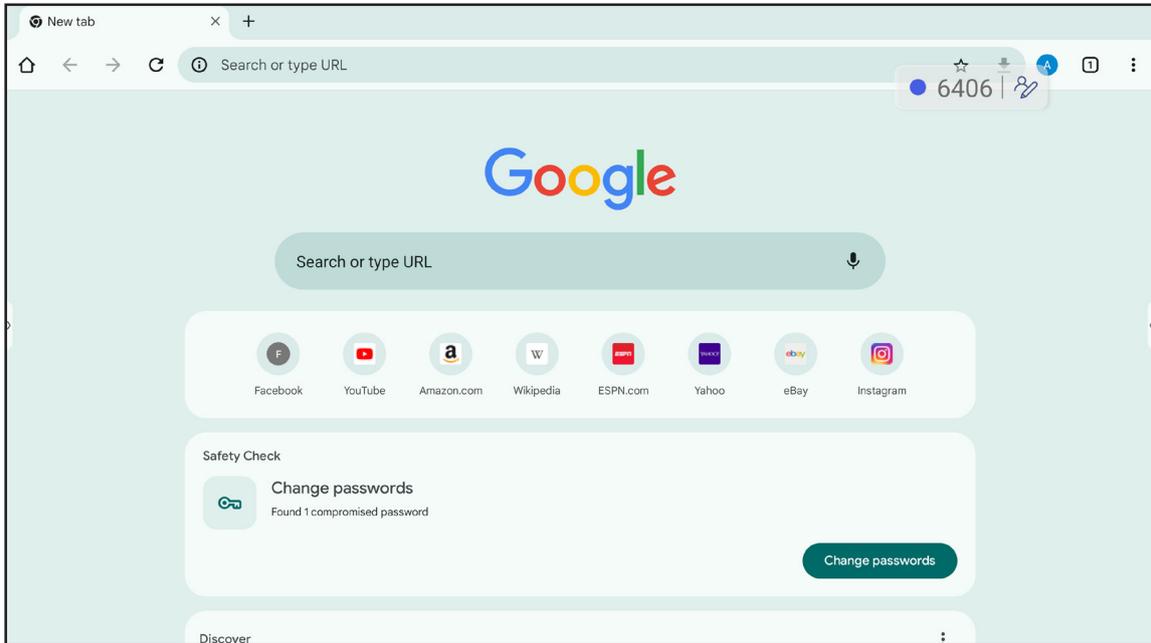
12. To manage your account, view subscription, access Cloud integration, change language, and read About information, click **Settings**.



USING THE APPS

Browser

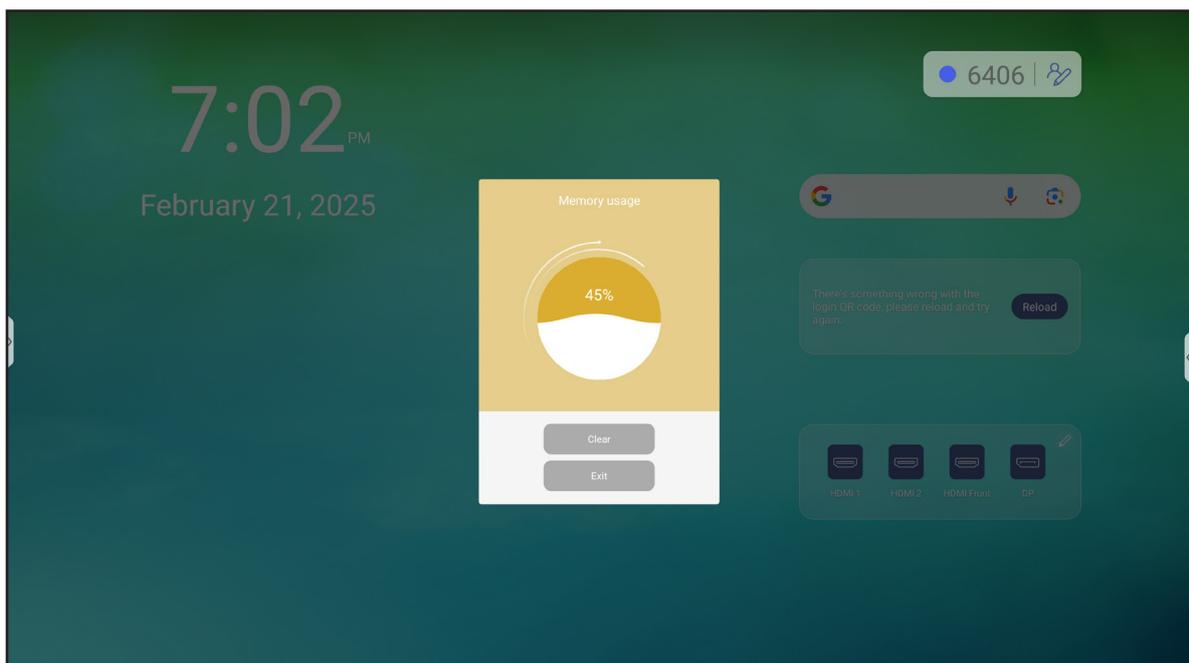
Tap  on the Home screen or press the **Browser**  key on the remote control to open the web browser.



MemoryClean

Tap **MemoryClean** to monitor the memory usage and start cleaning and optimizing the data on the IFP. After opening **MemoryClean**, the app calculates the memory usage automatically.

- For automatic cleaning of the memory, deleting temporary and junk files, tap **Clear**.
- To exit the app, tap **Exit**.



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 IFP.

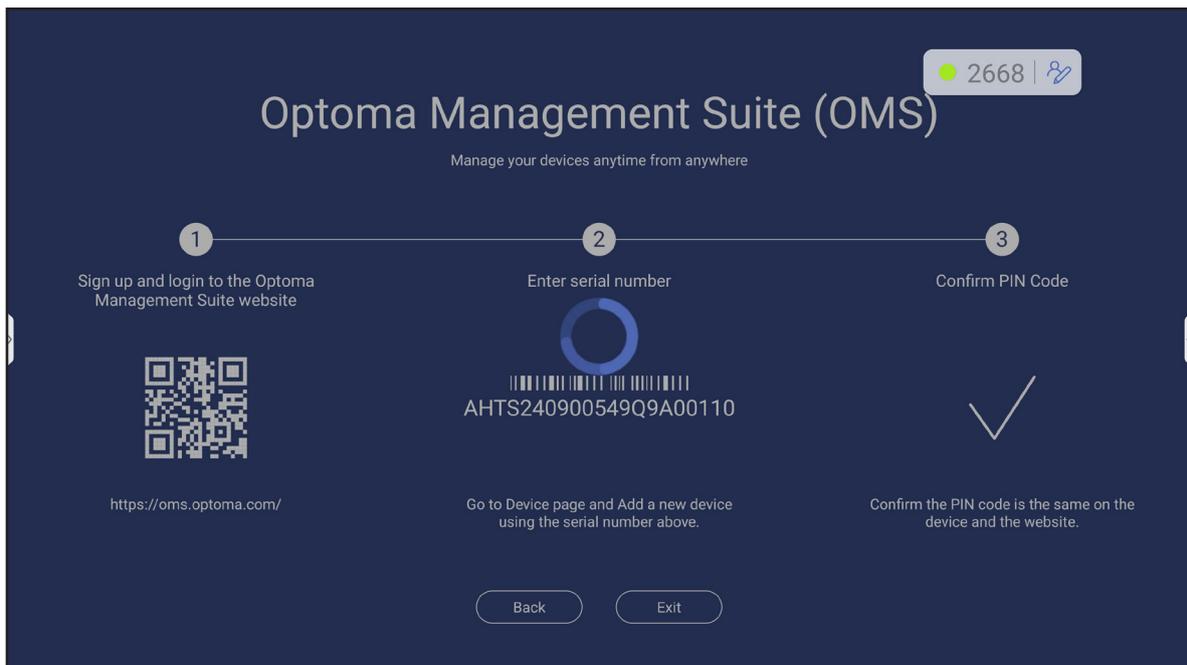
Note: For a more detailed introduction of OMS functions, please refer to <https://onlinemanual.optoma.com/OMS/>.



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



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, tap **OMS**.

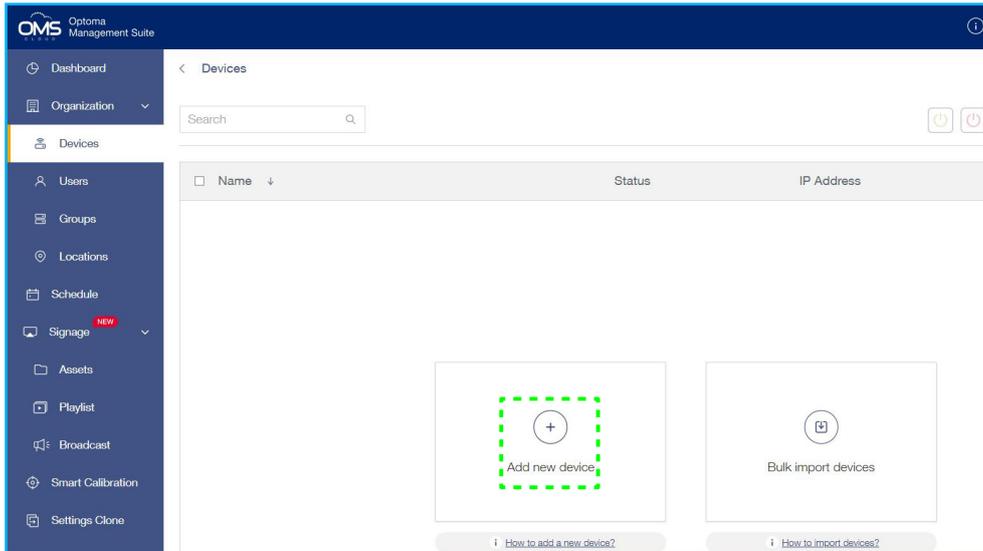


USING THE APPS

Optoma Management Suite (OMS)[™] (Continued)

3. From OMS in your browser, click on the **Devices** category .
4. Click **Add new device** .

Note: To add multiple devices at once, ensure that all the devices are powered on and connected to the Internet. Next, click **Bulk import devices**  and 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.



5. Click **Start** at the “How to add a new device?” prompt.

How to add a new device?

Please make sure that your device has network connectivity and the date and time settings are accurate.

Step.01
Open device's OMS page (IFP: Settings>Device>OMS, Projector: Settings>OMS) and enter the serial number assigned to the device.

Step.02
Confirm pair PIN Code.

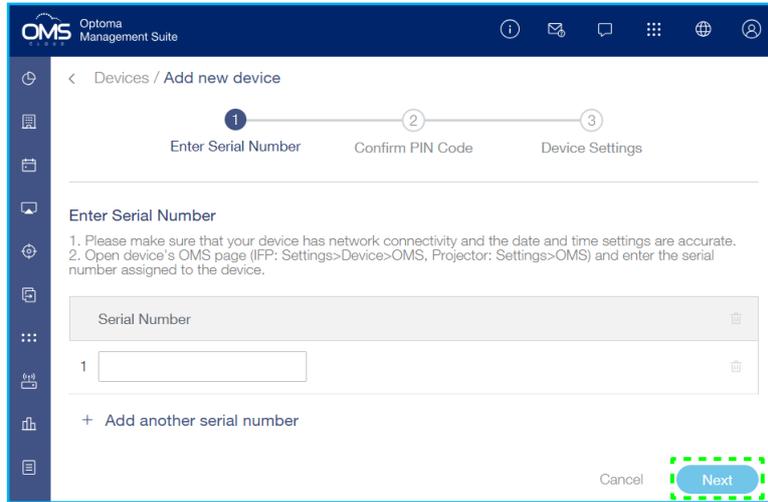
Step.03
Set up device's information.

Cancel 

USING THE APPS

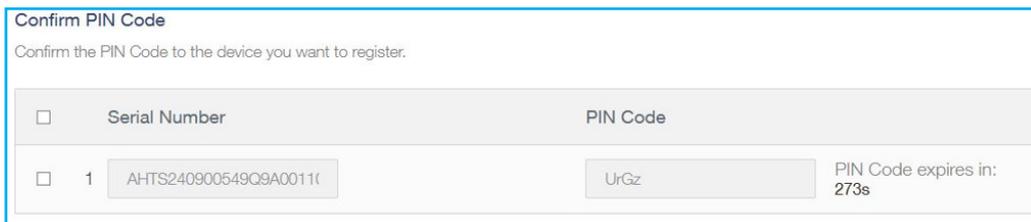
Optoma Management Suite (OMS)[™] (Continued)

6. Enter the serial number from the **Optoma Management Suite** launcher page and click **Next**.

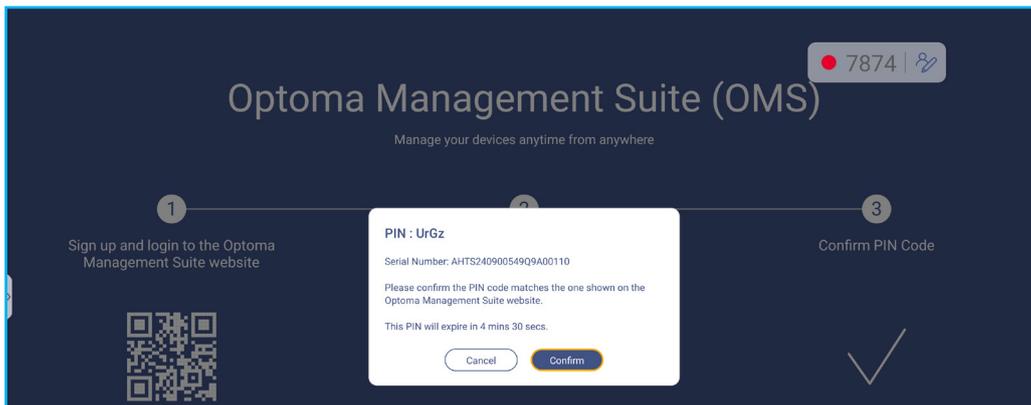


7. Confirm the pin codes on the IFP and your browser.

Browser



IFP

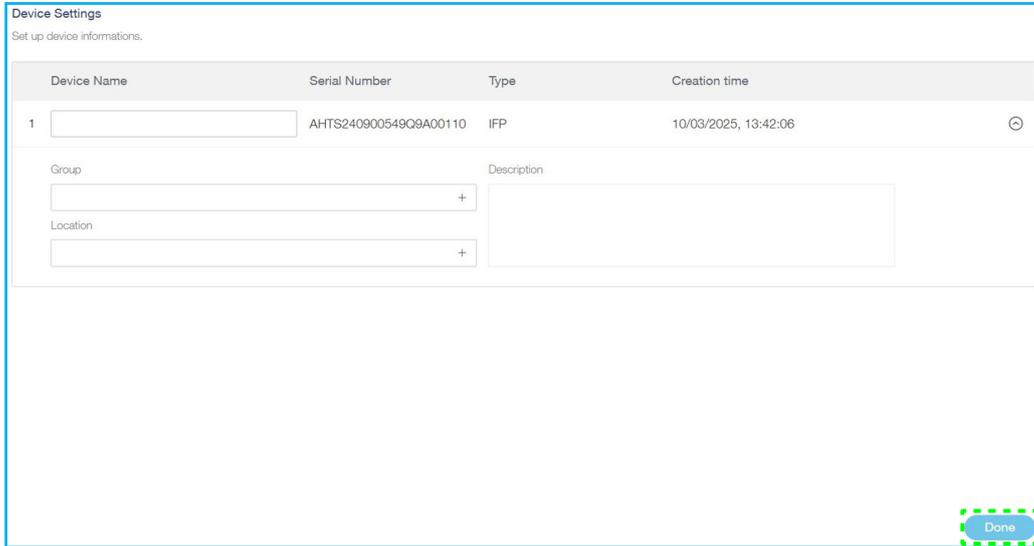


8. When pairing is complete, click **Next** in your browser.

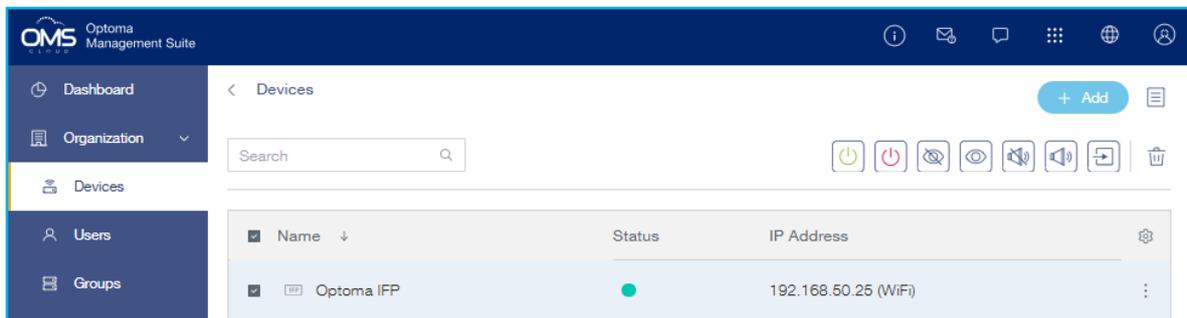
USING THE APPS

Optoma Management Suite (OMS)™ (Continued)

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



10. Select the device and then use the screen controls to display a message on the screen of the selected IFP, power on/off the IFP, enable/disable wake on LAN, select an input source, enable/disable AV mute mode, mute or unmute the IFP, monitor the device's status, usage time, mute status, temperature, and more.

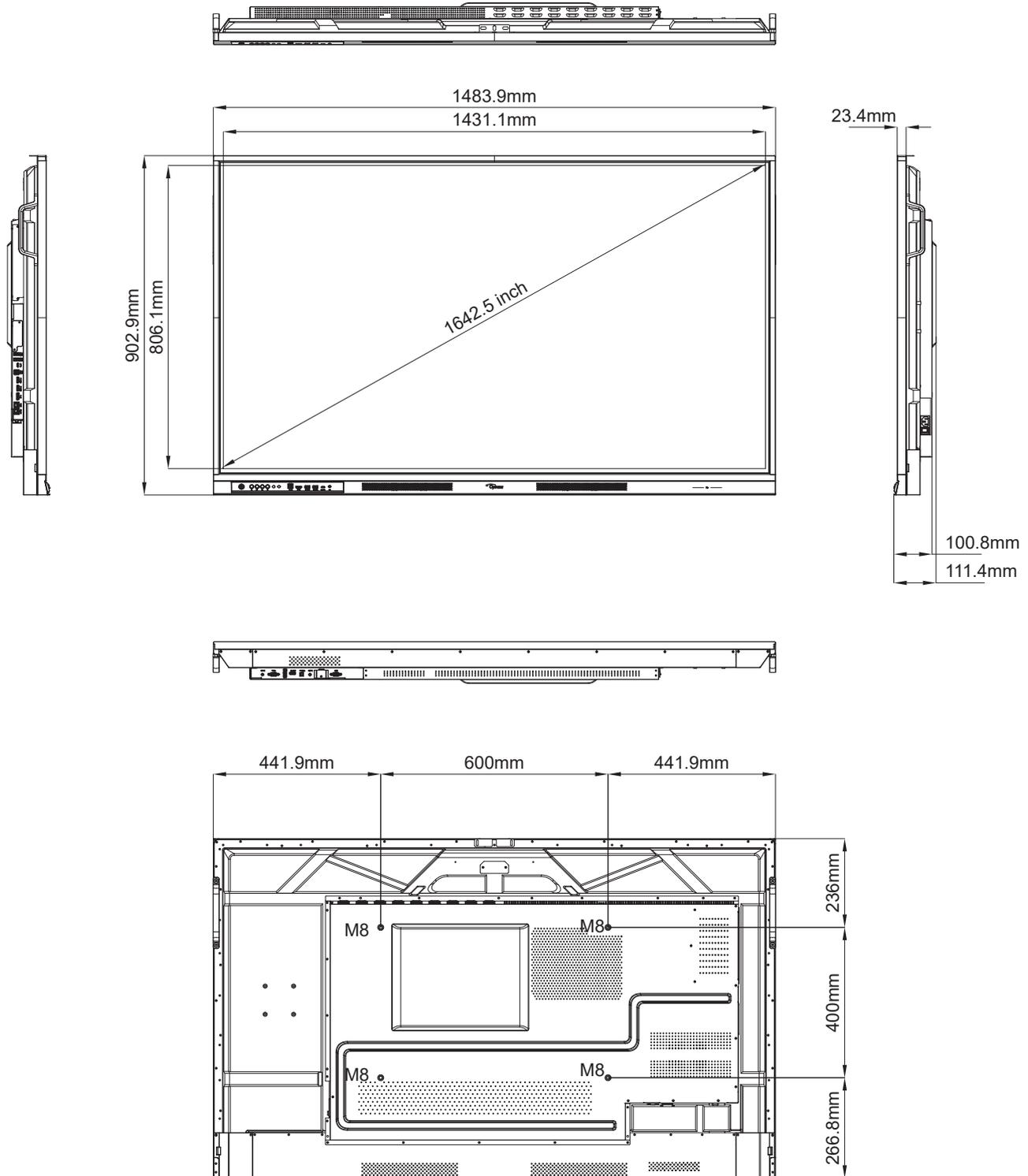


Note: For enhanced device management, you can group similar devices. To create a device group, click **Group** ⇒ **Add new device** (+). Then add the selected devices to the group.

ADDITIONAL INFORMATION

Dimensions

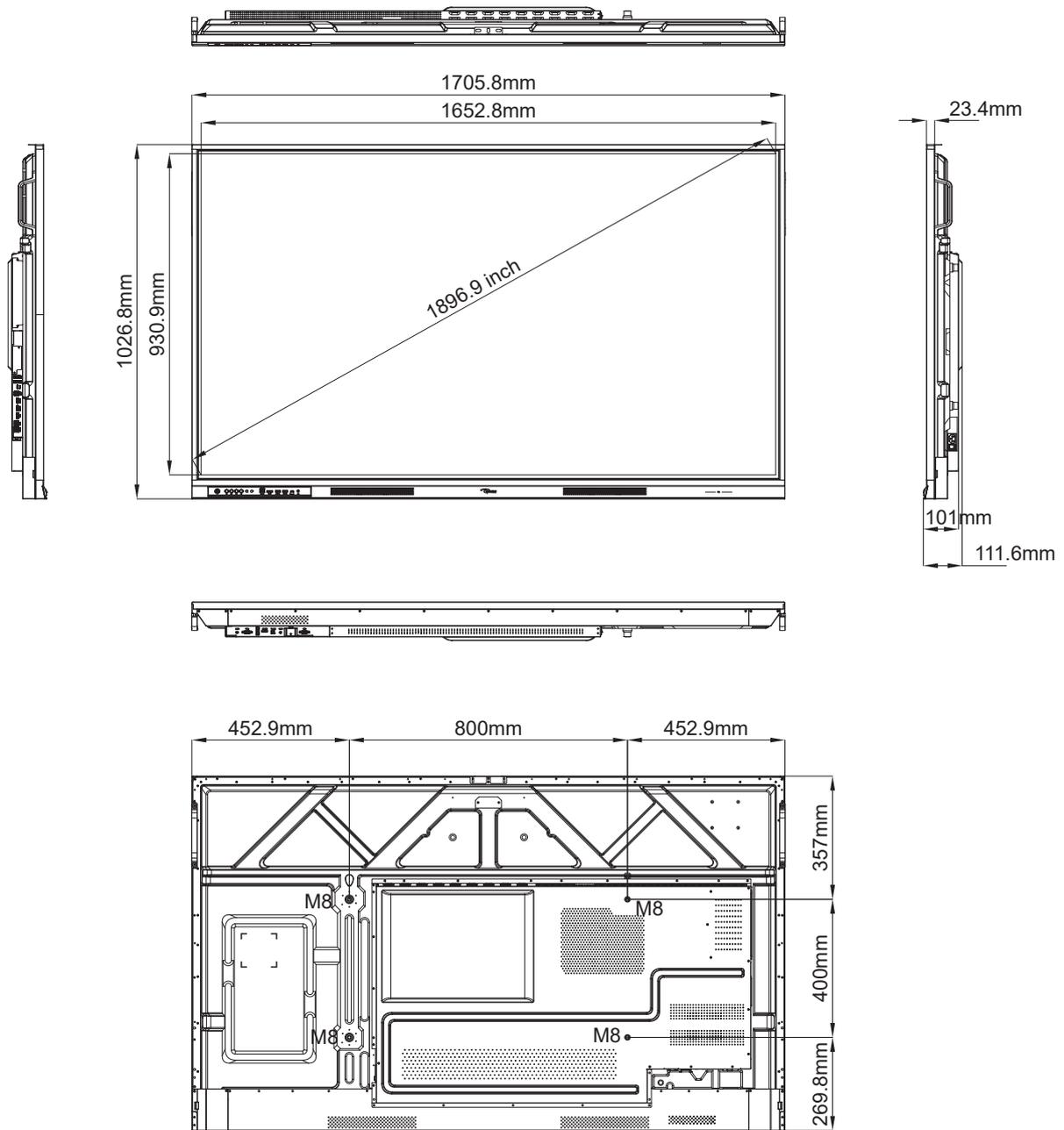
65-inch



Unit: mm

ADDITIONAL INFORMATION

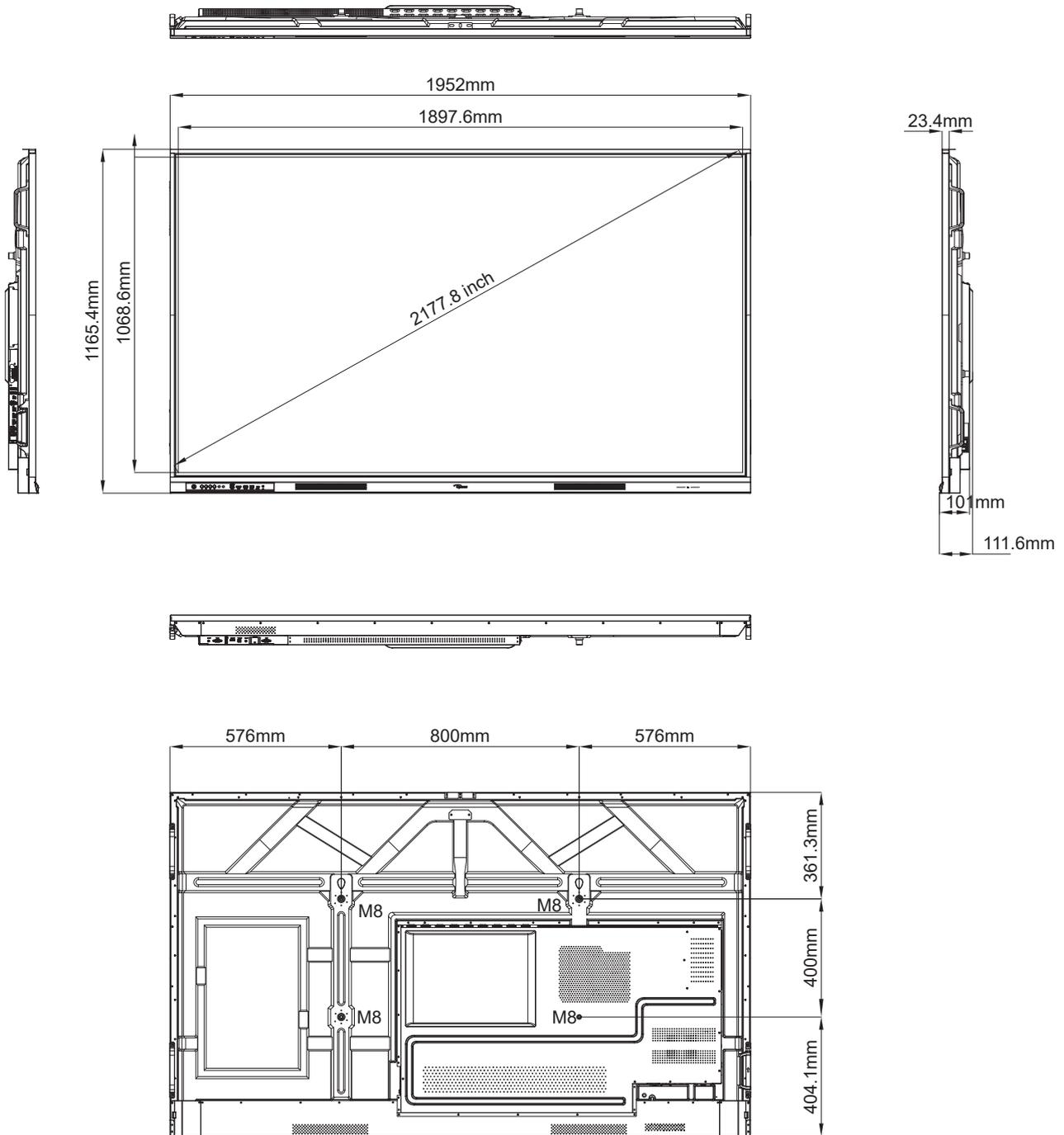
75-inch



Unit: mm

ADDITIONAL INFORMATION

86-inch



Unit: mm

ADDITIONAL INFORMATION

Supported Timing List

No.	Signal Timing Name	Reference	Clock	Hf	Vf	Input Source		
			[MHz]	[KHz]	[Hz]	VGA	HDMI1/2/3 (2.0)	Type C
1	720x400 @70Hz	IBM	28.32	31.78	70.00	Y	/	Y
2	640x480 @60Hz	VESA	25.18	37.92	59.94	Y	Y	Y
3	640x480 @72Hz	VESA	31.50	37.86	72.81	Y	/	Y
4	640x480 @75Hz	VESA	31.50	37.50	75.00	Y	/	Y
5	800x600 @56Hz	VESA	36.00	35.15	56.25	Y	/	Y
6	800x600 @60Hz	VESA	40.00	37.87	60.31	Y	Y	Y
7	800x600 @72Hz	VESA	50.00	48.07	72.18	Y	/	Y
8	800x600 @75Hz	VESA	49.50	46.87	75.00	Y	/	Y
9	832x624 @75Hz	MAC	57.28	49.72	74.55	Y	/	Y
10	1024x768 @60Hz	VESA	65.00	48.36	60.00	Y	Y	Y
11	1024x768 @70Hz	VESA	75.00	56.47	70.06	Y	/	Y
12	1024x768 @75Hz	VESA	78.75	60.02	75.02	Y	/	Y
13	1152x864 @75Hz	VESA	108.00	67.50	75.00	Y	/	Y
14	1280x768 @60Hz(RB)	CVTRB	68.25	47.39	59.99	Y	Y	Y
15	1280x768 @60Hz	CVT	79.50	47.77	59.87	Y	Y	Y
16	1280x720 @60Hz	CEA-861	74.25	44.67	60.00	Y	/	Y
17	1280x800 @60Hz	CVT	83.50	49.70	59.81	Y	Y	Y
18	1280x960 @60.000Hz	VESA	108.00	60.00	60.00	Y	Y	Y
19	1280x1024 @60Hz	VESA	108.00	63.98	60.00	Y	Y	Y
20	1360x768 @60Hz	VESA	85.50	47.71	60.01	Y	Y	Y
21	1440x900 @60Hz(RB)	CVTRB	88.75	55.46	59.90	Y	Y	Y
22	1440x900 @60Hz	CVT	106.50	55.93	59.88	Y	Y	Y
23	1600x1200 @60Hz	VESA	162.00	75.00	60.00	Y	/	Y
24	1680x1050 60Hz	CVT	146.25	65.29	59.95	Y	Y	Y
25	1920x1080 60Hz	CEA-861	148.50	67.50	60.00	Y	Y	Y
26	720(1440)x480i	CEA-861	27.00	15.73	59.94	/	Y	/
27	480p 59Hz	CEA-861	27.00	31.46	59.94	/	Y	/
28	480p 60Hz	CEA-861	27.02	31.50	60.00	/	Y	/
29	720(1440)x576i	CEA-861	27.00	15.62	50.00	/	Y	/
30	576p	CEA-861	27.00	31.25	50.00	/	Y	/
31	720p 60Hz	CEA-861	74.25	45.00	60.00	/	Y	/
32	720p 59Hz	CEA-861	74.17	44.95	59.94	/	Y	/
33	720p 50Hz	CEA-861	74.25	37.50	50.00	/	Y	/
34	1080i 60Hz	CEA-861	74.25	33.75	60.00	/	Y	/

ADDITIONAL INFORMATION

Supported Timing List (Continued)

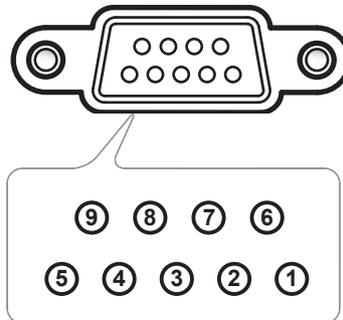
No.	Signal Timing Name	Reference	Clock	Hf	Vf	Input Source		
			[MHz]	[KHz]	[Hz]	VGA	HDMI1/2/3 (2.0)	Type C
35	1080i 59Hz	CEA-861	74.17	33.71	59.94	/	Y	/
36	1080i 50Hz	CEA-861	74.25	28.12	50.00	/	Y	/
37	1080p 60Hz	CEA-861	148.25	67.50	60.00	/	Y	/
38	1080p 59Hz	CEA-861	148.35	67.44	59.94	/	Y	/
39	1080p 50Hz	CEA-861	148.50	56.25	50.00	/	Y	/
40	1080p 30Hz	CEA-861	74.25	33.75	30.00	/	Y	/
41	1080p 29Hz	CEA-861	74.17	33.71	29.97	/	Y	/
42	1080p 25Hz	CEA-861	74.25	28.12	25.00	/	Y	/
43	1080p 24Hz	CEA-861	74.25	27.00	24.00	/	Y	/
44	1080p 23Hz	CEA-861	74.17	26.97	23.97	/	Y	/
45	3840x2160 60Hz	CEA-861	594.00	135.00	60.00	/	Y	Y
46	3840x2160 50Hz	CEA-861	594.00	112.50	50.00	/	Y	Y
47	3840x2160 30Hz	CEA-861	297.00	67.50	29.97	/	Y	Y
48	3840x2160 25Hz	CEA-861	297.00	56.25	25.00	/	Y	Y
49	3840x2160 24Hz	CEA-861	297.00	54.00	23.98	/	Y	Y
50	4096x2160 24Hz	CEA-861	297.00	54.00	24.00	/	Y	Y

ADDITIONAL INFORMATION

RS232 Protocol Function List

Note: IFP supports RS232 and RJ45 (port 23) control command.

RS232 Pin Assignments



Pin No.	Spec. (from IFP side)
1	N/A
2	TXD
3	RXD
4	N/A
5	GND
6	N/A
7	N/A
8	N/A

RS232 RJ45 Control Connection

RS232 Settings	
Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

LAN Control Settings	
IP	Machine IP
Port	4023

~	X	X	X	X	X	X	X	CR
Lead Code	Device ID (where 01 indicates Device ID = 01)		Command ID		Space	Variable	Carriage return	

ADDITIONAL INFORMATION

SET Command

Type	Category	Parameter	CMD		Hex Code CMD	Response	
						Success	Failed
SET	Power	Power off	~xx00 n	n=0	7E 30 30 30 30 20 30 0d	P	F
		Power on	~xx00 n	n=1	7E 30 30 30 30 20 31 0d	P	F
		Restart	~xx00 n	n=3	7E 30 30 30 30 20 33 0d	P	F
	Power Mode (standby)	Eco.	~xx114 n	n=0	7E 30 30 31 31 34 20 30 0d	P	F
		Active		n=1	7E 30 30 31 31 34 20 31 0d	P	F
	Treble	0 ~ 100	~xx95 n	n=0-100	7E 30 30 39 35 20 30 0d to 7E 30 30 39 35 20 31 30 30 0d	P	F
	Bass	0 ~ 100	~xx96 n	n=0-100	7E 30 30 39 36 20 30 0d to 7E 30 30 39 36 20 31 30 30 0d	P	F
	Balance	0 ~ 100	~xx99 n	n=50-50	7E 30 30 39 39 20 30 0d to 7E 30 30 39 39 20 31 30 30 0d	P	F
	Contrast	0 ~ 100	~xx22 n	n=0-100	7E 30 30 32 32 20 30 0d to 7E 30 30 32 32 20 31 30 30 0d	P	F
	Brightness	0 ~ 100	~xx21 n	n=0-100	7E 30 30 32 31 20 30 0d to 7E 30 30 32 31 20 31 30 30 0d	P	F
	Sound Mode	Standard	~xx252 n	n=1	7E 30 30 32 35 32 20 31 0d	P	F
		Meeting		n=4	7E 30 30 32 35 32 20 34 0d	P	F
		User		n=2	7E 30 30 32 35 32 20 32 0d	P	F
		Classroom		n=3	7E 30 30 32 35 32 20 33 0d	P	F
		Movie		n=5	7E 30 30 32 35 32 20 35 0d	P	F
	Volume	0 ~ 100	~xx81 n	n=0-100	7E 30 30 38 31 20 30 0d to 7E 30 30 38 31 20 31 30 30 0d	P	F
	Video Mute	Off	~xx13 n	n=0	7E 30 30 31 33 20 30 0d	P	F
		On		n=1	7E 30 30 31 33 20 31 0d	P	F
	Mute	Off	~xx80 n	n=0	7E 30 30 38 30 20 30 0d	P	F
		On		n=1	7E 30 30 38 30 20 31 0d	P	F
	Input Source	HDMI1	~xx12 n	n=1	7E 30 30 31 32 20 31 0d	P	F
		HDMI2		n=15	7E 30 30 31 32 20 31 35 0d	P	F
		HDMI Front		n=26	7E 30 30 31 32 20 32 36 0d	P	F
		Type-C Front		n=31	7E 30 30 31 32 20 33 31 0d	P	F
		Type-C		n=32	7E 30 30 31 32 20 33 32 0d	P	F
		DisplayPort		n=20	7E 30 30 31 32 20 32 30 0d	P	F
		Slot in PC		n=25	7E 30 30 31 32 20 32 35 0d	P	F
		VGA		n=5	7E 30 30 31 32 20 35 0d	P	F
		Android		n=24	7E 30 30 31 32 20 32 34 0d	P	F
	Language	English	~xx70 n	n=1	7E 30 30 37 30 20 31 0d	P	F
		Français		n=3	7E 30 30 37 30 20 33 0d	P	F

ADDITIONAL INFORMATION

SET Command (Continued)

Type	Category	Parameter	CMD		Hex Code CMD	Response	
						Success	Failed
SET	Language	Español	~xx70 n	n=5	7E 30 30 37 30 20 35 0d	P	F
		Traditional Chinese		n=13	7E 30 30 37 30 20 31 33 0d	P	F
		Simplified Chinese		n=14	7E 30 30 37 30 20 31 34 0d	P	F
		Português		n=6	7E 30 30 37 30 20 36 0d	P	F
		German		n=2	7E 30 30 37 30 20 32 0d	P	F
		Dutch		n=8	7E 30 30 37 30 20 38 0d	P	F
		Polish		n=7	7E 30 30 37 30 20 37 0d	P	F
		Russian		n=17	7E 30 30 37 30 20 31 37 0d	P	F
		Czech		n=19	7E 30 30 37 30 20 31 39 0d	P	F
		Danish		n=24	7E 30 30 37 30 20 32 34 0d	P	F
		Swedish		n=9	7E 30 30 37 30 20 39 0d	P	F
		Italian		n=4	7E 30 30 37 30 20 34 0d	P	F
		Turkish		n=22	7E 30 30 37 30 20 32 32 0d	P	F
		Arabic		n=20	7E 30 30 37 30 20 32 30 0d	P	F
		Romanian		n=27	7E 30 30 37 30 20 32 37 0d	P	F
		Hungarian		n=18	7E 30 30 37 30 20 31 38 0d	P	F
		Finnish		n=11	7E 30 30 37 30 20 31 31 0d	P	F
		Norge		n=10	7E 30 30 37 30 20 31 30 0d	P	F
	Picture Mode	Presentation	~xx20 n	n=1	7E 30 30 32 30 20 31 0d	P	F
		Bright		n=2	7E 30 30 32 30 20 32 0d	P	F
		Cinema		n=3	7E 30 30 32 30 20 33 0d	P	F
		DICOM SIM.		n=13	7E 30 30 32 30 21 33 0d	P	F
		User		n=5	7E 30 30 32 30 20 35 0d	P	F
		HDR		n=21	7E 30 30 32 30 20 32 31 0d	P	F
	Color	0 ~ 100	~xx45 n	n=0-100	7E 30 30 34 35 20 30 0d to 7E 30 30 34 35 20 31 30 30 0d	P	F
	Backlight	0 ~ 100	~xx251 n	n=0-100	7E 30 30 32 35 31 20 30 0d to 7E 30 30 32 35 31 20 31 30 30 0d	P	F
	Color Temp	Cool	~xx36 n	n=2	7E 30 30 33 36 20 32 0d	P	F
		Standard		n=1	7E 30 30 33 36 20 31 0d	P	F
		Warm		n=4	7E 30 30 33 36 20 34 0d	P	F
	Freeze	Unfreeze	~xx04 n	n=0	7E 30 30 30 34 20 30 0d	P	F
		Freeze		n=1	7E 30 30 30 34 20 31 0d	P	F
	Pixel shift interval (min)	Off	~xx250 n	n=0	7E 30 30 32 35 30 20 30 0d	P	F
		2		n=2	7E 30 30 32 35 30 20 32 0d	P	F
		3		n=3	7E 30 30 32 35 30 20 33 0d	P	F
		5		n=5	7E 30 30 32 35 30 20 35 0d	P	F
		30		n=30	7E 30 30 32 35 30 20 33 30 0d	P	F
		60		n=60	7E 30 30 32 35 30 20 36 30 0d	P	F
	Remote control command	Vol +	~xx140 n	n=17	7E 30 30 31 34 30 20 31 37 0d	P	F

ADDITIONAL INFORMATION

SET Command (Continued)

Type	Category	Parameter	CMD		Hex Code CMD	Response	
						Success	Failed
SET	Remote control command	Vol -	~xx140 n	n=18	7E 30 30 31 34 30 20 31 38 0d	P	F
		Remote UP		n=10	7E 30 30 31 34 30 20 31 30 0d	P	F
		Remote DOWN		n=14	7E 30 30 31 34 30 20 31 34 0d	P	F
		Remote LEFT		n=11	7E 30 30 31 34 30 20 31 31 0d	P	F
		Remote RIGHT		n=13	7E 30 30 31 34 30 20 31 33 0d	P	F
		Remote OK		n=12	7E 30 30 31 34 30 20 31 32 0d	P	F
		Remote Menu Key		n=20	7E 30 30 31 34 30 20 32 30 0d	P	F
		Remote Input source		n=47	7E 30 30 31 34 30 20 34 37 0d	P	F
		Remote Exit		n=74	7E 30 30 31 34 30 20 37 34 0d	P	F
	Display message on the OSD		~xx210	nn.....n	7E 30 30 32 31 30 20 nn...n od	P	F
Reset To Default		~xx112	n=1	7E 30 30 31 31 32 20 31 od	P	F	
OSD lock	OSD lock On with password	~xx239 1 ~nnnn	~mm =000(a=7E 303030 30)-999(a=7E 39393939)	7E 30 30 32 33 39 20 31 20 a 0d	P	F	
	OSD lock Off with password	~xx239 2 ~nnnn	~mm =000(a=7E 303030 30)-999(a=7E 39393939)	7E 30 30 32 33 39 20 32 20 a 0d	P	F	

ADDITIONAL INFORMATION

GET Command

Type	Category	CMD		Hex Code CMD	Response		
					Success	Parameter	Failed
GET	Power	~xx124 n	n=1	7E 30 30 31 32 34 20 31 0D	OK0	Power off	F
					OK1	Power on	F
	Contrast	~xx126 n	n=1	7E 30 30 31 32 36 20 31 0D	OK0-100	0-100	F
	Brightness	~xx125 n	n=1	7E 30 30 31 32 35 20 31 0D	OK0-100	0-100	F
	Volume	~xx120 n	n=1	7E 30 30 31 32 30 20 31 0D	OK0-100	0-100	F
	Video Mute	~xx363 n	n=1	7E 30 30 33 36 33 20 31 0D	OK0	Off	F
					OK1	On	F
	Mute	~xx356 n	n=1	7E 30 30 33 35 36 20 31 0D	OK0	Off	F
					OK1	On	F
	Sound Mode	~xx139	n=1	7E 30 30 31 33 39 20 31 0D	OK1	Standard	F
					OK2	User	F
					OK3	Classroom	F
					OK4	Meeting	F
					OK5	Movie	F
	Input Source	~xx121 n	n=1	7E 30 30 31 32 31 20 31 0D	OK7	HDMI1	F
					OK8	HDMI2	F
					OK22	HDMI Front	F
					OK28	Type-C Front	F
					OK2	VGA	F
					OK20	Android	F
					OK21	Slot in PC	F
					OK29	Type-C	F
	OK15	DisplayPort	F				
	Aspect Ratio	~xx127 n	n=1	7E 30 30 31 32 37 20 31 0D	OK1	4:3	F
					OK2	16:9	F
					OK14	PTP	F
	Picture Mode	~xx123 n	n=1	7E 30 30 31 32 33 20 31 0D	OK1	Presentation	F
					OK2	Bright	F
					OK3	Cinema	F
					OK5	User	F
					OK10	DICOM SIM.	F
	Color Temp	~xx128 n	n=1	7E 30 30 31 32 38 20 31 0D	OK21	HDR	F
					OK1	Cool	F
					OK0	Standard	F
	WLAN status	~xx451 n	n=1	7E 30 30 34 35 31 20 31 0D	OK3	Warm	F
					OK0	Disconnected	F
				OK1	Connected	F	
WLAN Mac address	~xx555 n	n=2	7E 30 30 35 35 35 20 32 0D	Oknn:nn:nn:nn:nn:nn	Mac Address	F	

ADDITIONAL INFORMATION

GET Command (Continued)

Type	Category	CMD		Hex Code CMD	Response		
					Success	Parameter	Failed
GET	WLAN IP address	~xx451 n	n=2	7E 30 30 34 35 31 20 32 0D	Oknnn:nnn:nnn:nnn	IP address	F
	LAN status	~xx87 n	n=1	7E 30 30 38 37 20 31 0D	OK0	Disconnected	F
					OK1	Connected	F
	LAN Mac address	~xx555 n	n=1	7E 30 30 35 35 35 20 31 0D	Oknn:nn:nn:nn:nn:nn	Mac Address	F
	LAN IP address	~xx87 n	n=3	7E 30 30 38 37 20 33 0D	Oknnn:nnn:nnn:nnn	IP address	F
	FW version	~xx122 n	n=1	7E 30 30 31 32 32 20 31 0D	Oknnnnnnnnnnnnnnnn (ex. 20190926164814)	FW version	F
	Usage hour	~xx108 n	n=1	7E 30 30 31 30 38 20 31 0D	Oknnnnn	Suage hours	F
	Device type	~xx149 n	n=1	7E 30 30 31 34 39 20 31 0D	OK2	Device type = IFP	F
	Information string	~xx150 n	n=1	7E 30 30 31 35 30 20 31 0D	OKabbbbbbccdddee (Note*1)		F
			n=2	7E 30 30 31 35 30 20 32 0D	Oknnn	Device native resolution	F
			n=3	7E 30 30 31 35 30 20 33 0D	Oknnn (ex. OKHDMI1)	Input source	F
			n=4	7E 30 30 31 35 30 20 34 0D	Oknnn (ex. OK1920x1080)	Source resolutuion	F
			n=16	7E 30 30 31 35 30 20 31 36 0D	OK0	Power mode (standby) = Eco.	F
					OK1	Power mode (standby) = Active	F
			n=17	7E 30 30 31 35 30 20 31 37 0D	OK0	DHCP = Off	F
					OK1	DHCP = On	F
	n=18	7E 30 30 31 35 30 20 31 38 0D	Oknnn (ex. OK48)	System temperature	F		
	n=19	7E 30 30 31 35 30 20 31 39 0D	Oknnn (ex. OK60Hz)	Source refresh rate	F		
	Regulatory Model name	~xx151 n	n=3	7E 30 30 31 35 31 20 33 0d	Oknnn (ex. SLUGRK)	Regulatory model name (will provide when kick off)	F
System Auto send	Standby Mode				INFO0		
	Warming up				INFO1		
	Cooling down				INFO2		
	Over temperature				INFO7		
GET	OSD lock	~xx229 n	n=1	7E 30 30 32 32 39 20 31 0D	OK0	OSD lock = Off	F
					OK1	OSD lock = On	F
	SN	~XX353 n	n=1	7E 30 30 33 35 33 20 31 0D	Okaaaaaaaa aaaaaaaa	a= serial number string	F

ADDITIONAL INFORMATION

GET Command (Continued)

Note: (*1)

Power	Running Time	Input Source	Firmware Version	Display Mode
<ul style="list-style-type: none"> • a=0 Power Off • a=1 Power On 	Usage hours = nnnnn	<ul style="list-style-type: none"> • cc=02 VGA1 • cc=07 HDMI1 • cc=08 HDMI2 • cc=15 DisplayPort • cc=18 Android • cc=19 Slot in PC • cc=21 USB Type C1 • cc=22 HDMI Front • cc=28 TypeC Front • cc=29 Type-C 	#####	<ul style="list-style-type: none"> • ee=01 Presentation • ee=02 Bright • ee=05 User • ee=21 HDR • ee=03 Cinema • ee=10 DICOM SIM.

LED Indicator

Power LED Color & Behavior	Status
Solid Red	Standby mode
Solid White	Power on
Flash White continuously	Backlight off

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 IFP is not turned off.
 - Turn off the mute function.
 - Make sure the volume is not set to the minimum level.
-  *The IFP automatically shuts down.*
- Check whether there is a sudden power outage.
 - Make sure the power cord is not disconnected.
-  *The touch panel does not respond to touch*
- Make sure the screen is not exposed to direct sunlight or other direct light that may be impeding the IR functionality.
 - For the external device connection, make sure the USB cable is properly connected to either the Touch USB port or the USB-C port on the IFP.
-  *If the remote control does not work*
- Check that the operating angle of the remote control is pointed within $\pm 30^\circ$ to the IR receiver on the IFP.
 - Make sure there are no obstructions between the remote control and the IFP. The distance between the remote control and the IR sensor window should not be longer than 8 meters (~26 feet).
 - Make sure batteries are inserted correctly and replace the batteries if they are depleted. Refer to the “Installing/Replacing the Remote Control Batteries” on page 21.

ADDITIONAL INFORMATION

Maintenance

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

IMPORTANT! *Before cleaning and performing any maintenance task, make sure to unplug the power cord from the power outlet to prevent electric shock.*

Cleaning the Screen

- When the screen requires cleaning, please unplug the power cord first.
- Please use a soft, dust-free, dry cloth to wipe the screen.
- Do not use water or a spray cleaner to clean the IFP.
- Please contact the service center for internal cleaning of the IFP.

Cleaning the Front Frame

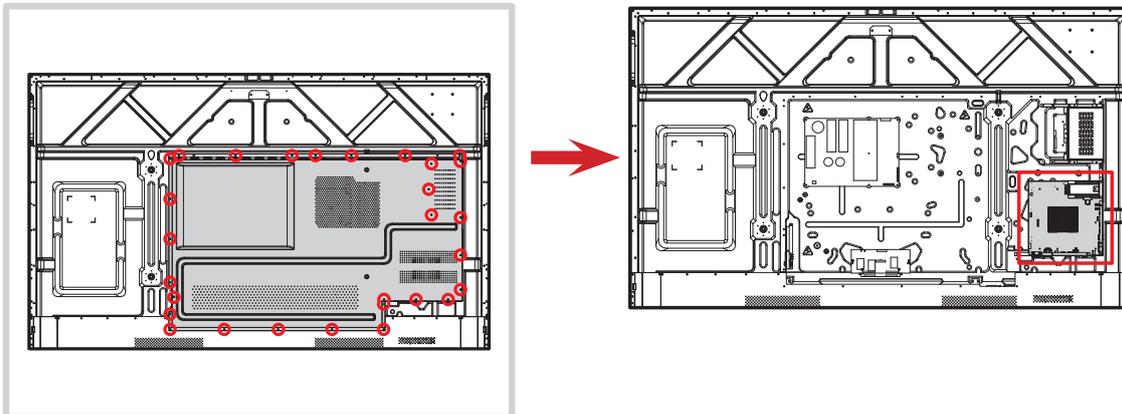
Use a dry, soft, lint-free cloth to wipe the front frame.

ADDITIONAL INFORMATION

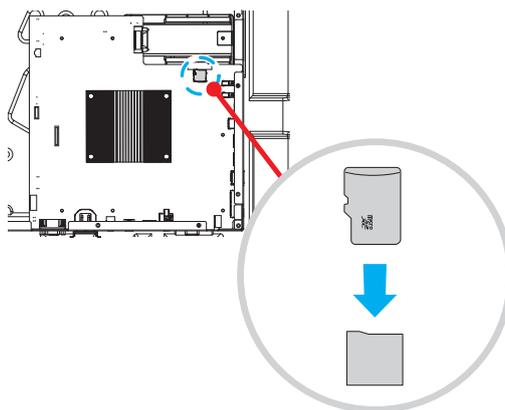
TF / MicroSD card installation

To install the TF or MicroSD card, complete the following steps:

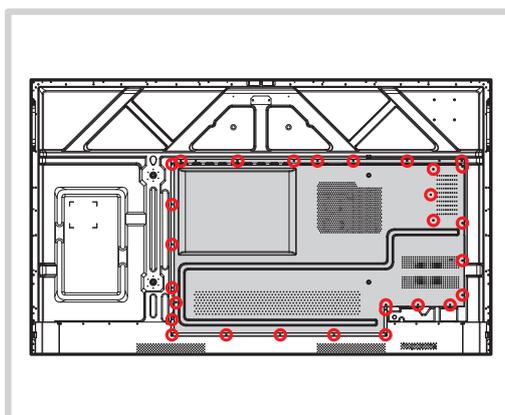
1. Remove twenty-nine (29) screws from the rear cover.



2. Insert the TF / MicroSD card (up to 1TB capacity) into the TF / MicroSD card slot on the rear of the IFP.



3. Replace the rear cover and secure it in place with the twenty-nine (29) screws.



IMPORTANT! TF Card or MicroSD card installation should only be performed by a qualified technician or should be discussed with a representative for available factory pre-installation options.

ADDITIONAL INFORMATION

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