Interactive Flat Panel

User manual

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SAFETY

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

Safety Instructions

- Only use attachments/accessories specified by the manufacturer.
- Do not block any ventilation openings. To ensure reliable operation of the device and to protect from overheating, the device should be installed in a location and manner so as not to 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 emits 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 in/on 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 in 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 storing. 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 appropriate service personnel.

IMPORTANT!

Optoma's Creative Touch Interactive Flat Panel Displays (IFPDs) are intended for landscape orientation only (as seen in images contained in the User Manual). Installation and/or use in any other orientation, such as table-top or portrait orientation is not supported and will void any included warranty and may cause damage to the device.

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-3 (B)/NMB-003 (B).

Remarque à l'intention des utilisateurs canadiens

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

Declaration of Conformity for EU Countries

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

WEEE

Disposal instructions

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

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.

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

How to Excercise 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.

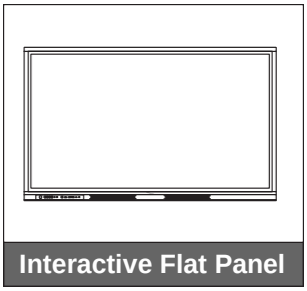
INTRODUCTION

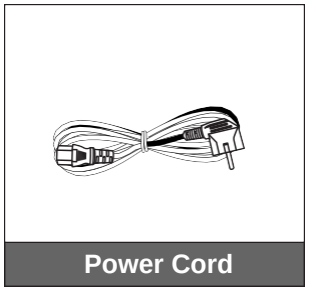
Package Contents

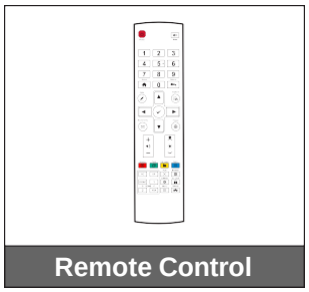
Carefully unpack and verify that you have the items listed below under standard accessories. Some of the items under optional accessories may not be available depending on the model, specification and your region of purchase. Please check with your place of purchase. Some accessories may vary from region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

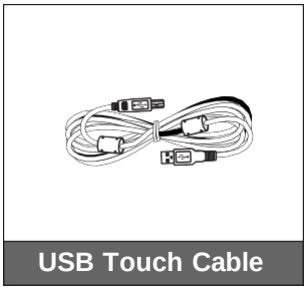
The warranty card is only supplied in some specific regions. Please consult your dealer for detailed information.

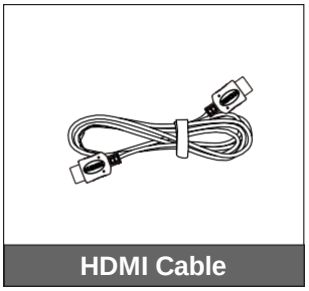
Standard Accessories

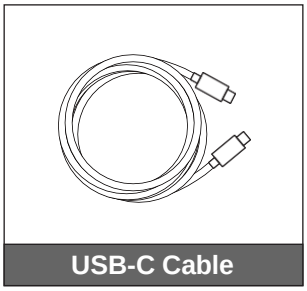

Interactive Flat Panel

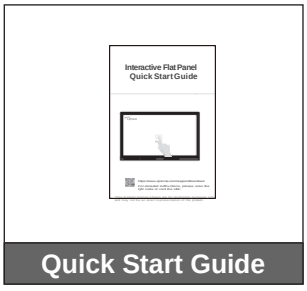

Power Cord


Remote Control

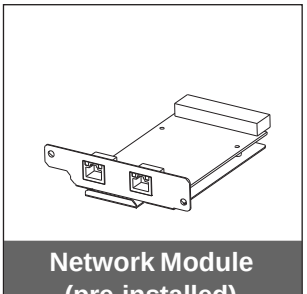

USB Touch Cable

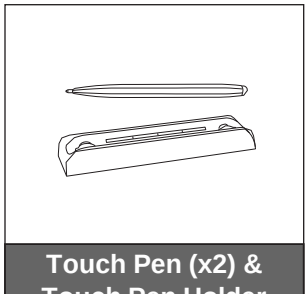

HDMI Cable


USB-C Cable



Quick Start Guide

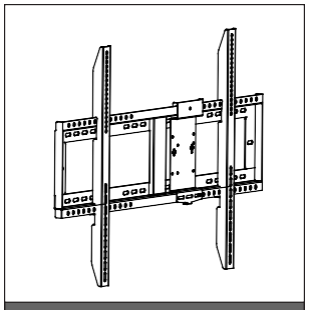

Network Module (pre-installed)


Touch Pen (x2) & Touch Pen Holder

Note: *For access to the setup information, user manual, product updates, and Warranty Information – please scan the QR Code or visit the following URL: https://www.optoma.com/support/download*

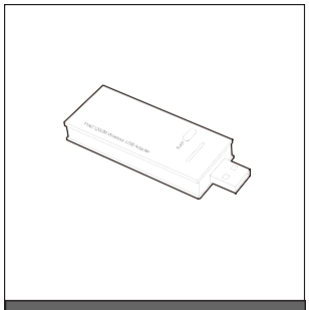
INTRODUCTION

Optional Accessories

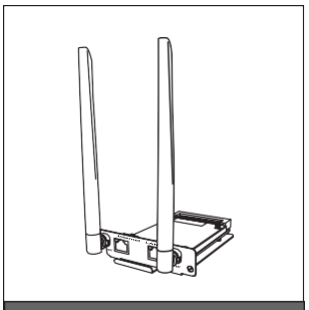


Wall Mount with PC Vesa Bracket (OWMFP01)

Trolley



Wi-Fi Dongle (AC1602)

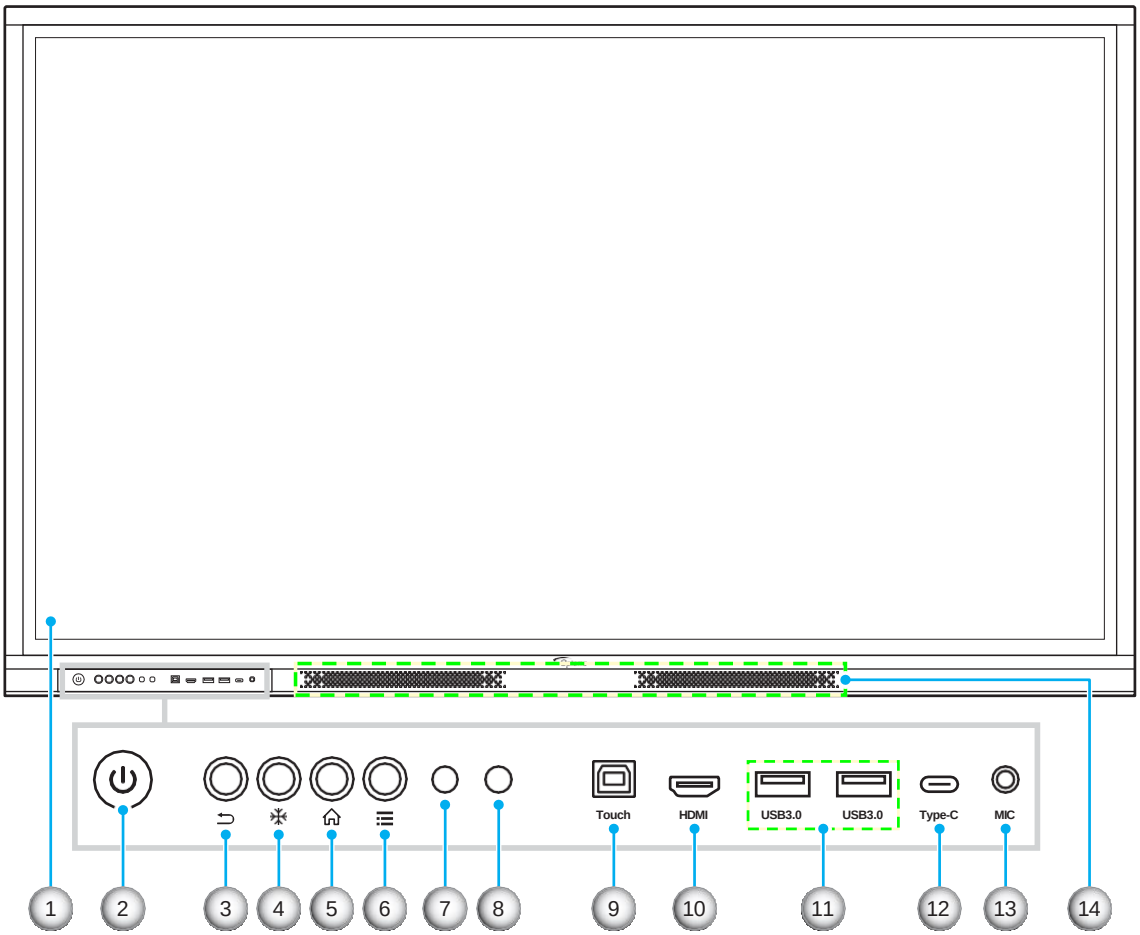


Wi-Fi Module (AZ832-HN)

INTRODUCTION

Product Overview

Front View



No.	Item
1.	Touch screen
2.	Power key with LED indicator
3.	Return key
4.	Freeze key
5.	Home key
6.	OSD menu key
7.	IR receiver

No.	Item
8.	Light sensor
9.	Touch USB port
10.	HDMI 2.0 Front port
11.	USB 3.0 ports (x2)
12.	USB Type-C port
13.	Microphone in port
14.	20W speakers (x2)

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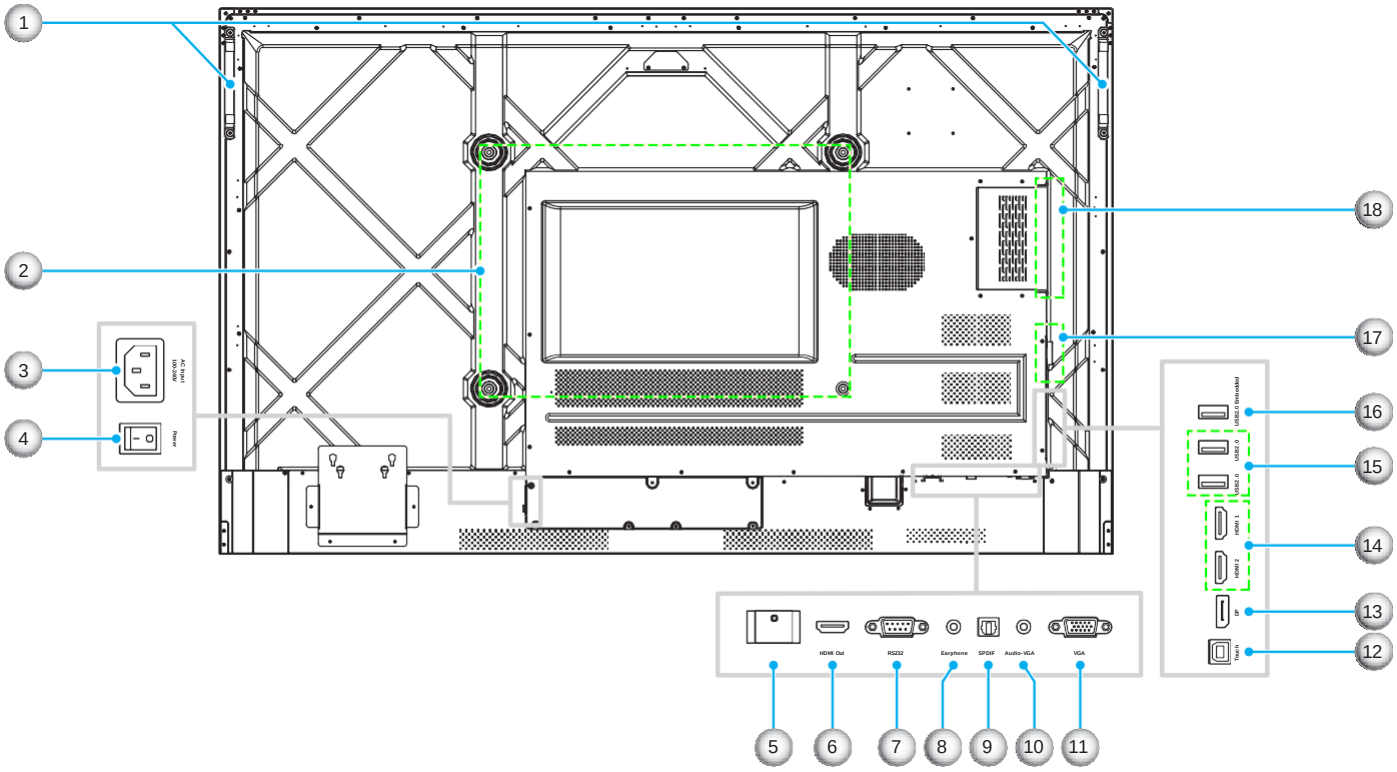
Rear View



No.	Item
1.	Handles (x2)
2.	Mounting holes for wall mount
3.	AC Input 100-240V port
4.	Power switch
5.	Reserved socket
6.	HDMI 2.0 out port
7.	RS232 port
8.	Earphone jack
9.	SPDIF port

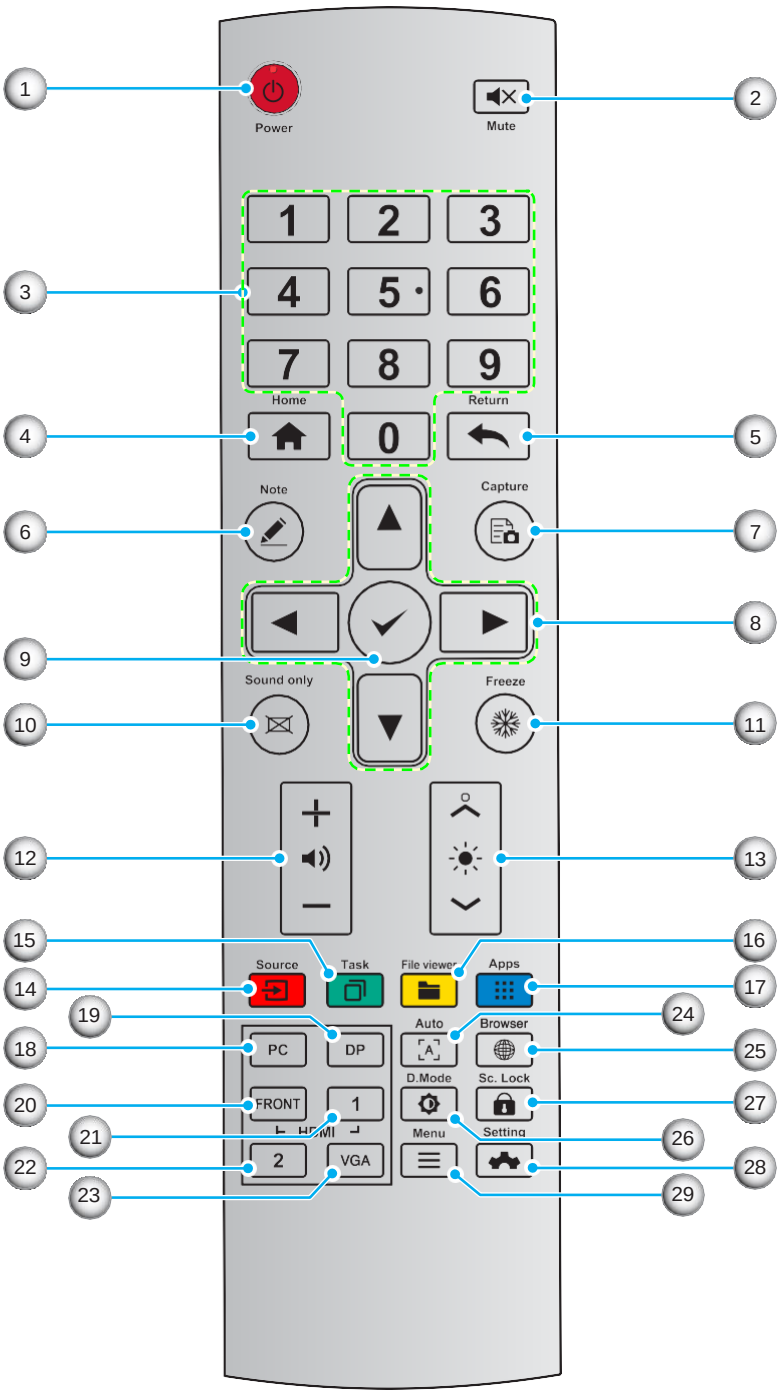
No.	Item
10.	Audio in jack (for VGA source)
11.	VGA port
12.	Touch USB port
13.	DP port
14.	HDMI ports (x2)
15.	USB 2.0 ports (x2)
16.	USB 2.0 embedded port
17.	Network module slot
18.	OPS slot

Note:

- *Front USB 3.0 ports are full channel USB ports. USB ports can be used irrespective of the chosen input source.*
- *Two HDMI in ports support CEC.*
- *USB type-C port supports DisplayPort 1.2 and power delivery (5V/3.25A, 65W).*
- *HDMI ports and DP port can be connected alongside a touch cable to achieve touch functionality.*
- *For protective earthing configuration, connect the IFP to the power socket with protective earthing, for example use the power cord with the ground wire.*

INTRODUCTION

Remote Control



No.	Key	Description
1.	⏻	Power On/Off
2.	🔇	Mute/Unmute
3.	0-9	Number Keypad
4.	🏠	Go to the Home screen
5.	↩	Return to previous or exit

INTRODUCTION

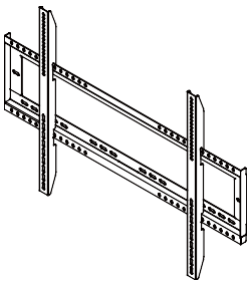
No.	Key	Description
6.		Enter Whiteboard mode
7.		Take a screenshot
8.	▲/▼/◀/▶	Up/down/left/right
9.		Confirm/OK
10.		Enable Sound only mode
11.		Freeze the current screen, press again to exit the Freeze function
12.		Adjust the sound volume
13.		Adjust the brightness (10 to 255)
14.		Open the source selection page
15.		View currently running applications
16.		Open the File manager
17.		View all pre-installed applications
18.	**PC**	Switch source to the internal PC
19.	**DP**	Switch source to DisplayPort
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 only)
25.		Open the Browser application
26.		Toggle display backlight mode
27.		Start/exit the screen lock function
28.		Open the OSD menu
29.		Open the Settings menu

Note: *If the PC module is not installed into the OPS slot, the PC key does not have a function.*

SETUP AND INSTALLATION

Wall Mounting

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)

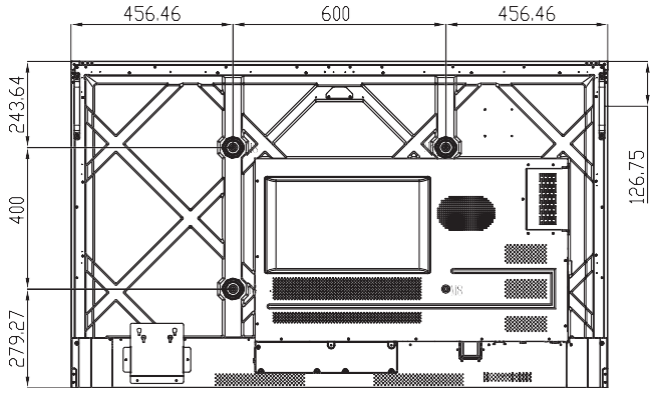
Anchor (x8)

Washer (x8)

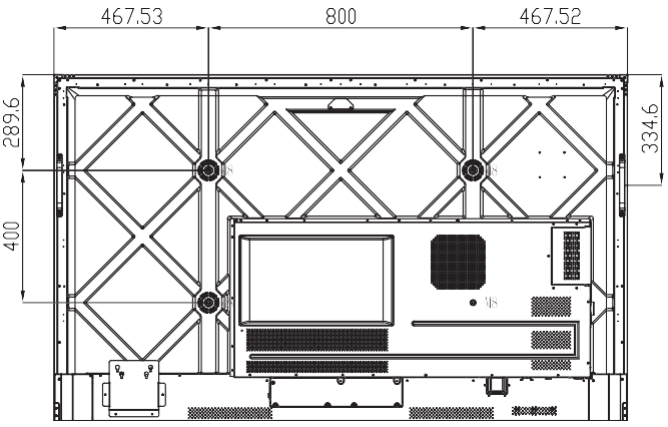
e

Wall Mount Specifications

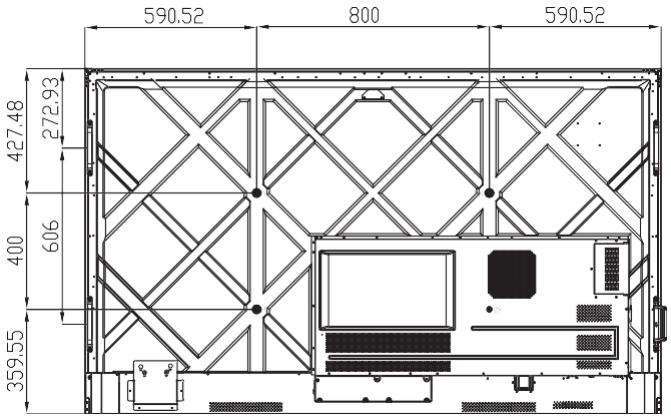
Model Name	VESA Grid	Screw Type & Length
65-inch	600 x 400 mm	M8*25L
75-inch	800 x 400 mm	M8*25L
86-inch	800 x 600 mm	M8*25L



65-inch



75-inch



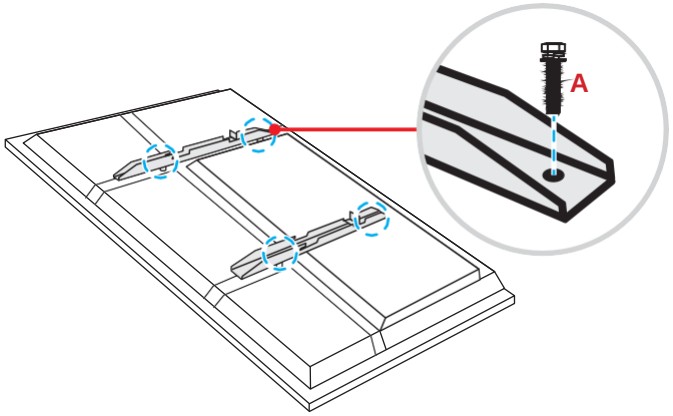
86-inch

SETUP AND INSTALLATION

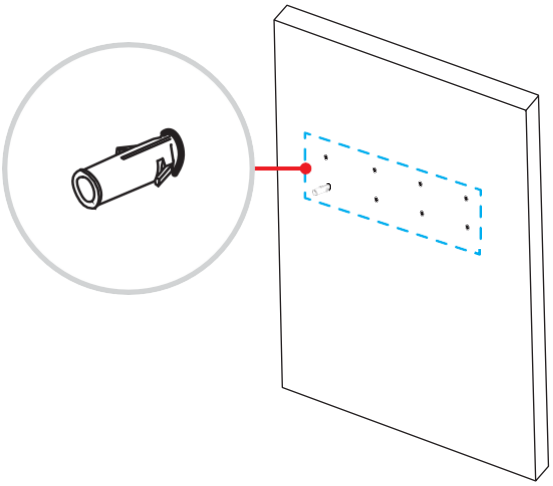
Wall Mounting (continued)

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**).



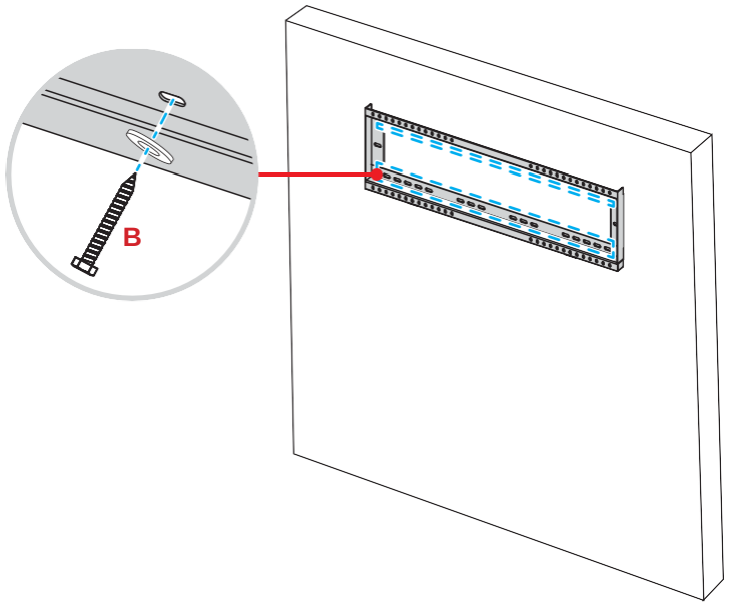
2. Drill eight small holes on the mounting location and insert the anchors into the holes.



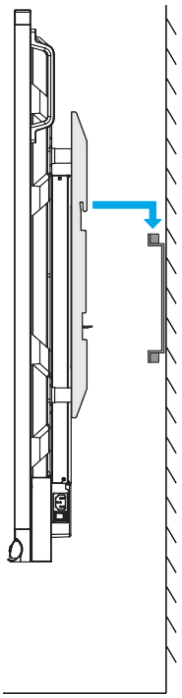
SETUP AND INSTALLATION

Wall Mounting (continued)

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.



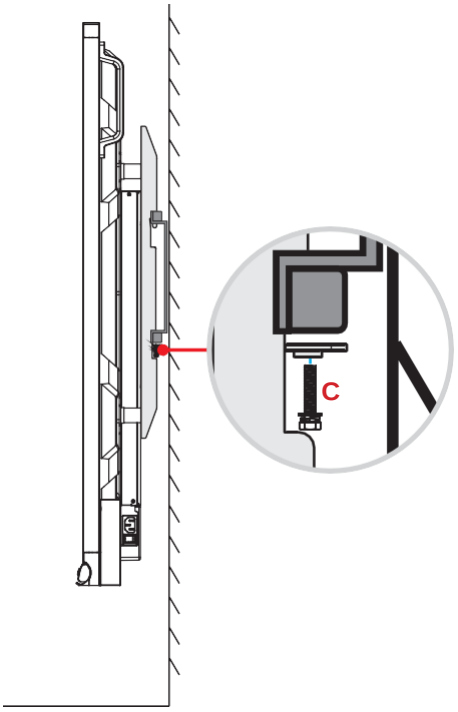
4. Align and hook the dual mounting brackets to the wall mount.



SETUP AND INSTALLATION

Wall Mounting (continued)

5. Secure the dual mounting brackets and the wall mount with the two pre-installed partially threaded safety screws. (**C**).



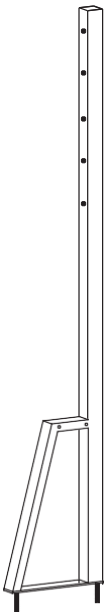
Note:

- *Maximum wall mount kit load capacity:160kg (352lbs).*
- *The wall mount should be installed into a concrete wall to ensure a secure installation. If a concrete wall is not available, it is recommended that a stand installation 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.*

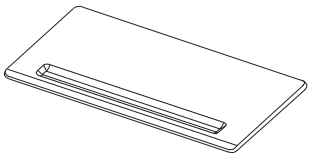
SETUP AND INSTALLATION

Stand Mounting (Optional)

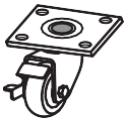
The stand mount kit includes the following items:



Stand pole (x2)



Pen tray (x1)



Wheel (x4)

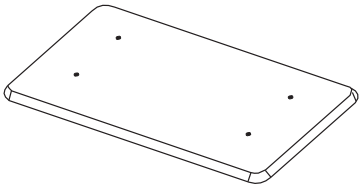
Screw **J** (x16)

Screw **H** (x4)

Nut **G** (x4)

Washer **G1** (x4)

Split Ring Lock Washer **G2** (x4)



Stand base (x1)

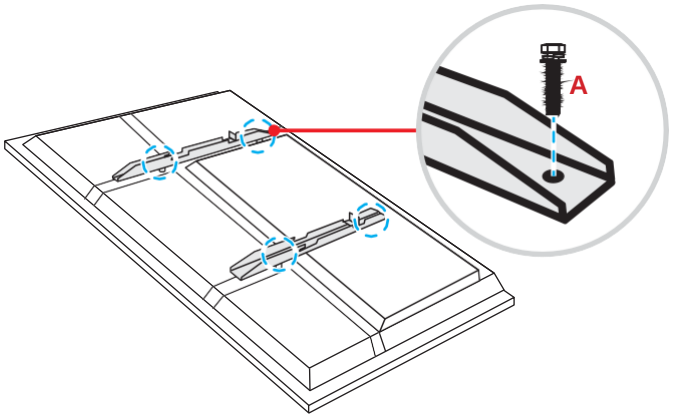
Screw **K** (x4)

Washer **K1** (x4)

Nut **K2** (x4)

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**).



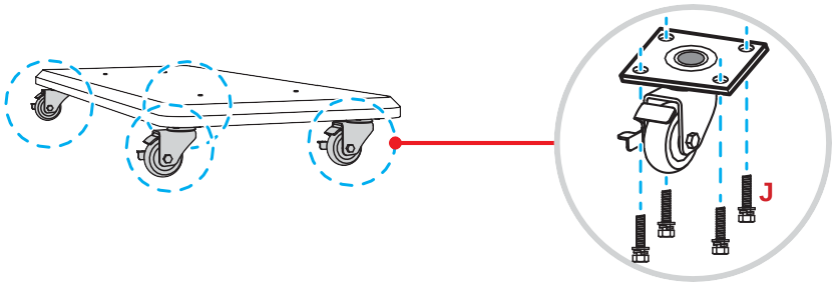
Note: *Dual mounting brackets, wall mount, and screws* (**A**) *are included in the wall mount kit. Refer to* *"Wall Mounting" on page 14.*

SETUP AND INSTALLATION

Stand Mounting (continued)

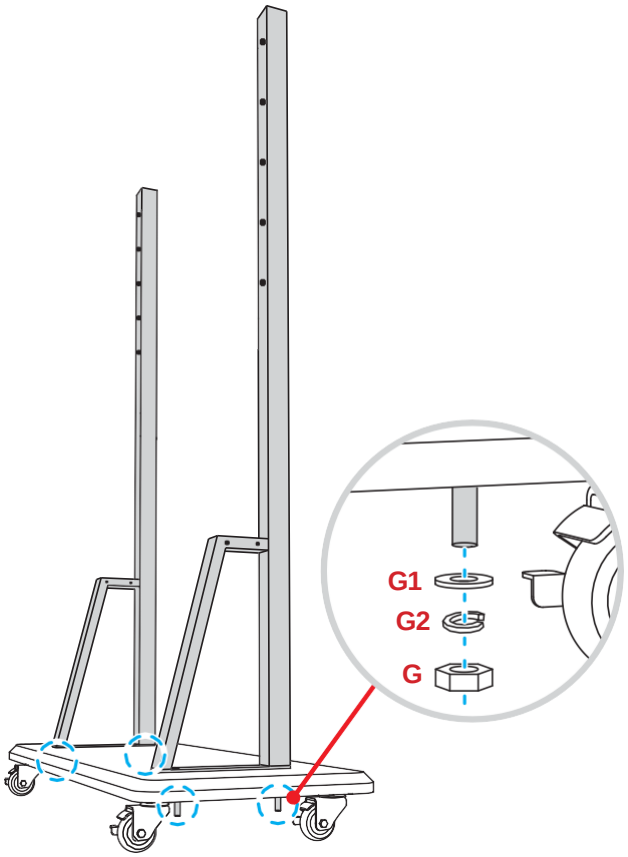
2. Flip the stand base so that you can see the screw holes for the wheel, then install the wheel onto its slot and secure it with four screws (**J**).

   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 (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**).

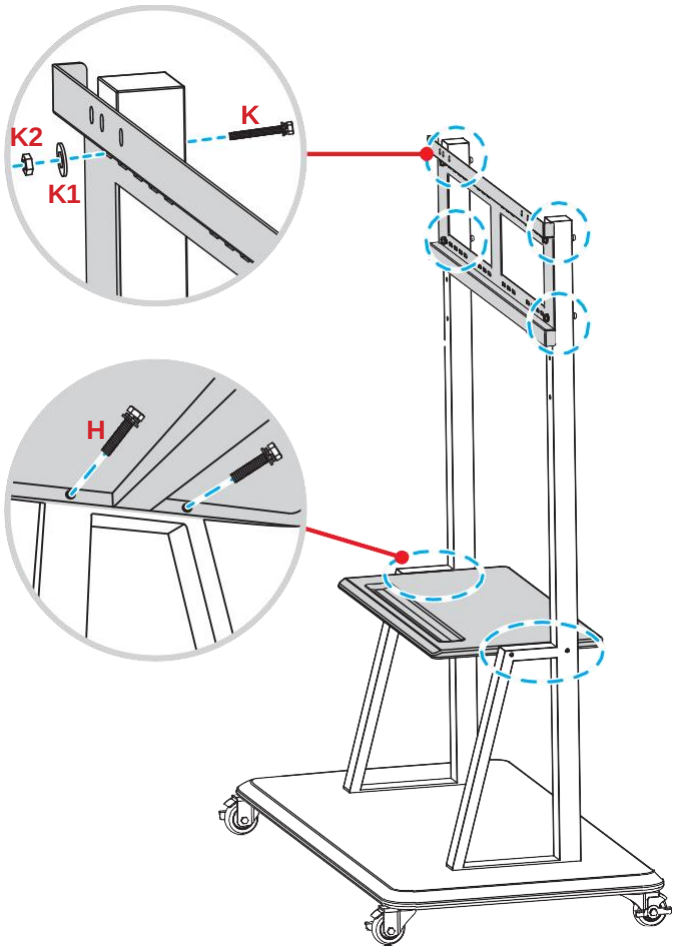
5. Install the wall mount on the upper part of the poles, then insert the screws (**K**) through the screw holes from the rear side of the poles.

   Please note:

   a) For safest use and to avoid risk of tipping, do not mount at highest point on ST01 stand.

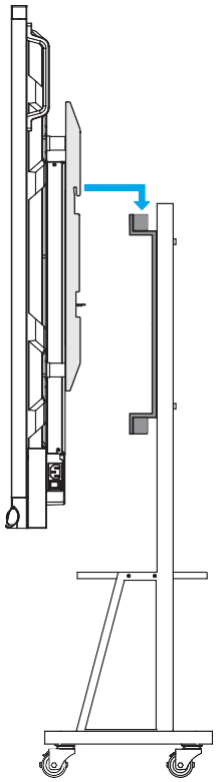
   b) Do NOT stand underneath ST01 stand when adjusting mount height.

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 stand on a sloped surface as this can cause rolling and/or result in injury or harm to self and others.



SETUP AND INSTALLATION

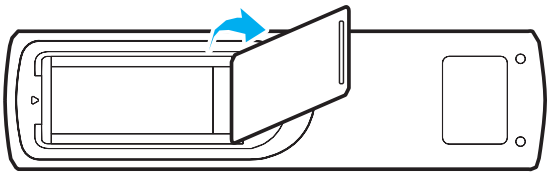
Using the Remote Control

Installing/Replacing the Remote Control Batteries

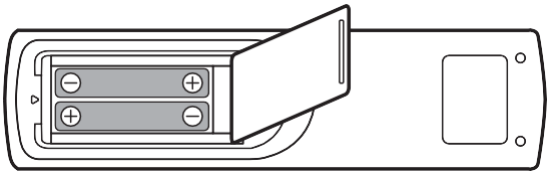
Prepare two (2x) AAA size batteries for remote control (The availability of batteries varies by different regions).

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

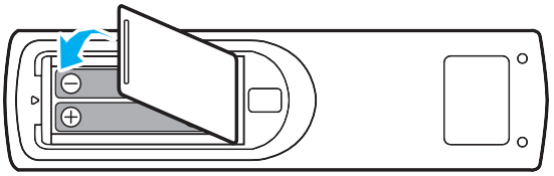
1. Remove the cover of the battery compartment.



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.

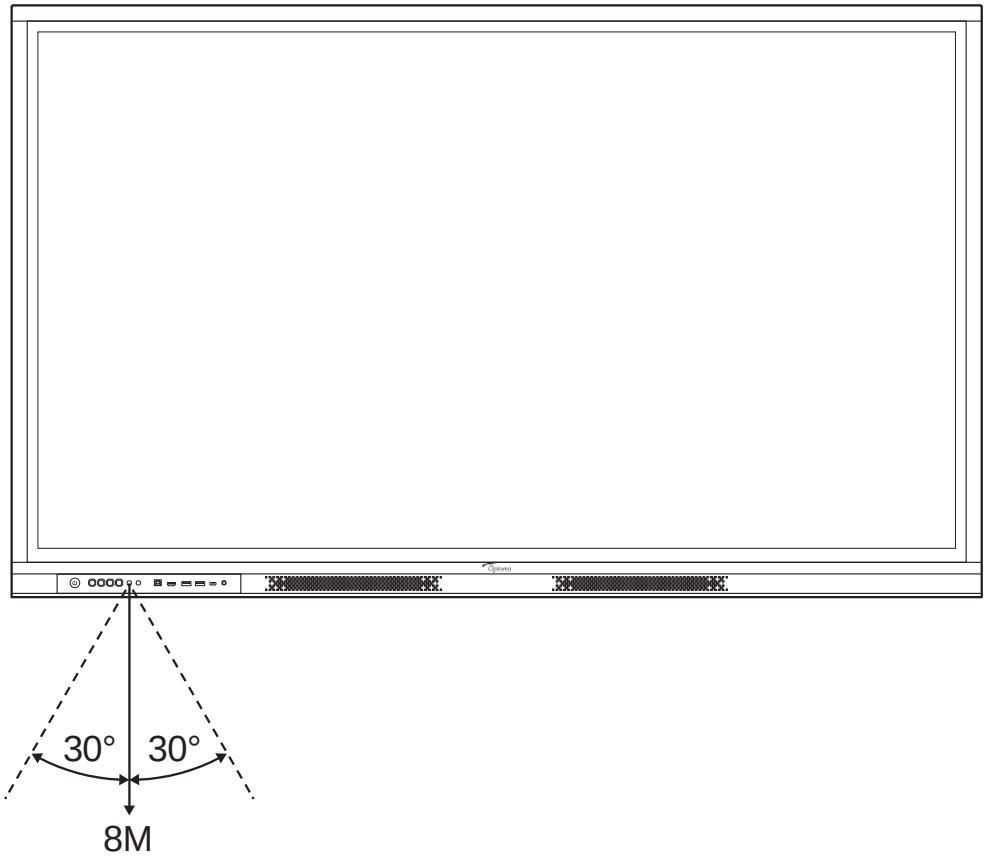
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are depleted. Chemicals 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 ±30° 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.

- 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 obstructed by direct sunlight or fluorescent lamps.
- If the remote control is close to Inverter-Type fluorescent lamps, you may experience intermittent functionality.
- If the remote control and the IFP are within a very short distance, the remote control might not function properly.



SETUP AND INSTALLATION

Connections

Connecting to Power

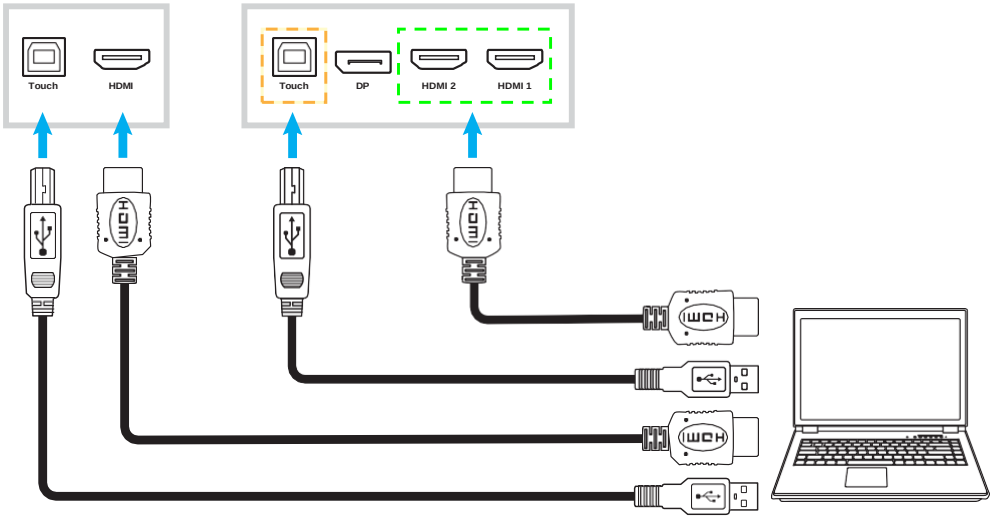
1. Connect one end of the power cord to the AC-in socket on the IFP.
2. Connect the other end of the power cord to a power outlet or a power supply.
3. Set the **Power** switch to ON (**I**). The IFP will automatically enter standby mode.

Connecting External Devices

IMPORTANT! *To use touch functionality when connecting via HDMI, VGA, or DisplayPort, be sure to also connect one end of the USB-touch cable to the USB-B TOUCH port on the IFP and the other end of the cable to the USB-A port on your device.*

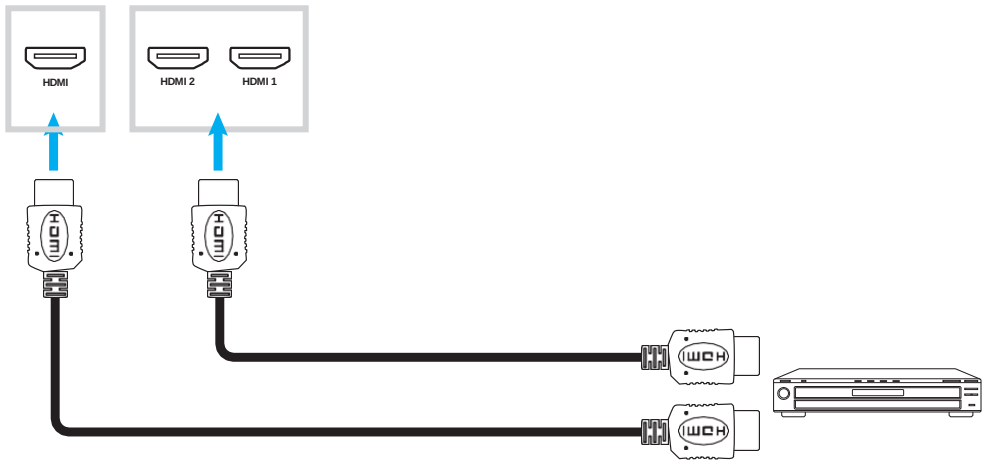
HDMI input connection

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



SETUP AND INSTALLATION

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

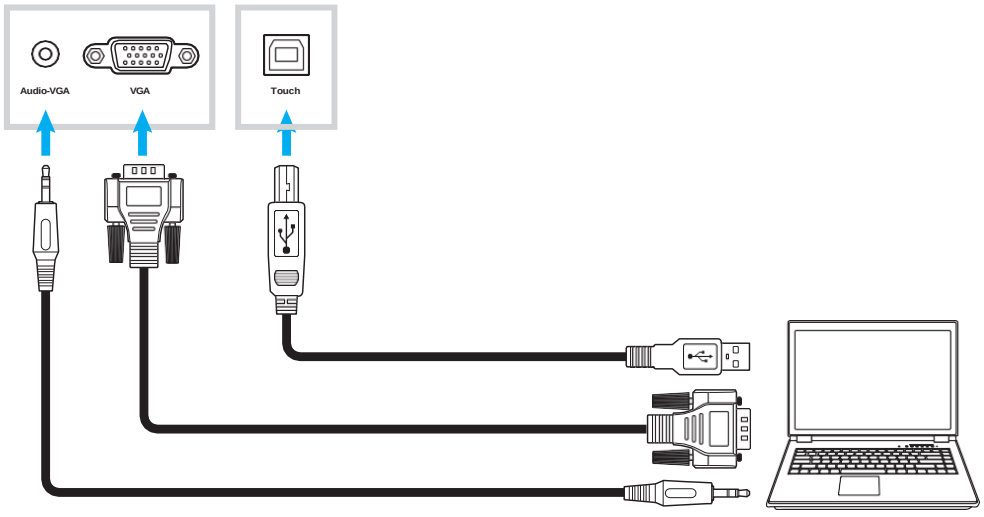


VGA input connection

Connect your computer to the IFP using a VGA cable.

Note:

- *For audio input, connect one end of an audio cable to the Audio-VGA jack on the IFP and the other end of the cable to the audio jack on your computer.*
- *For touch function, connect one end of the USB cable to the USB-B Touch port on the IFP and the other end to the USB port on your computer.*



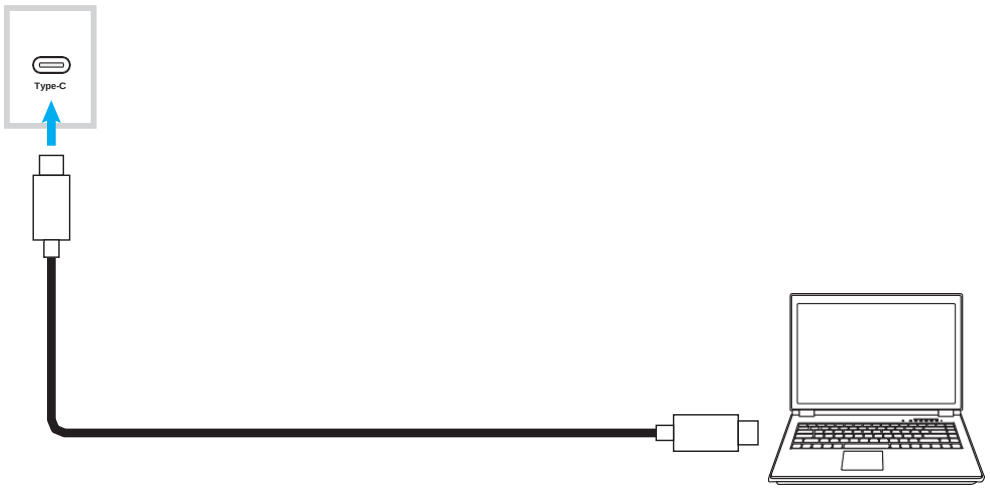
SETUP AND INSTALLATION

USB-C connection

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

Note:

- *If connecting via USB-C cable, video/audio/touch functionality are all transmitted via the USB-C cable.*
- *The USB-C port also supports power delivery and will output 65W.*



Audio output connection

Connect your external speakers to the Audio out jack on the IFP.

Earphone connection

Connect your headset to the Earphone jack on the IFP.

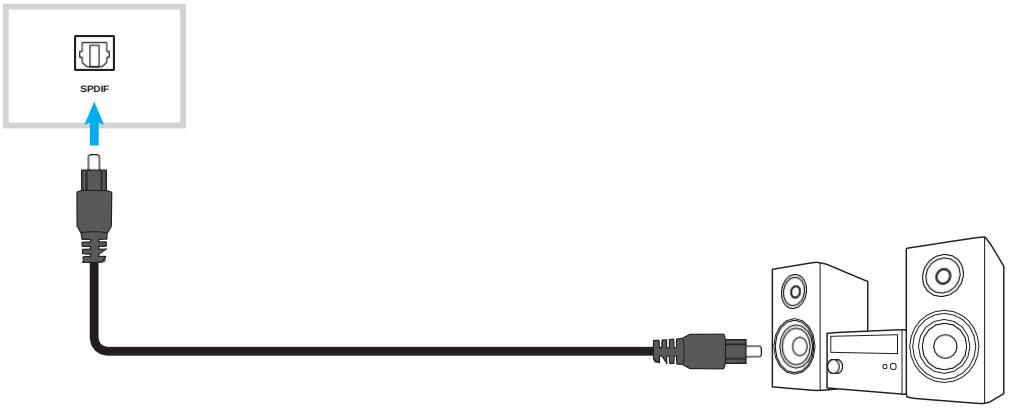
SETUP AND INSTALLATION

Microphone connection

Connect your microphone to the Microphone in port on the IFP.

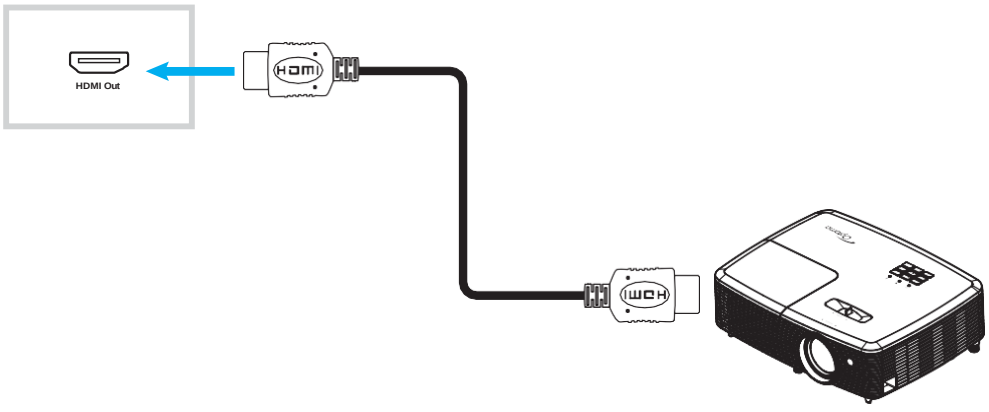
SPDIF connection

Connect your audio equipment to the IFP using a SPDIF cable.



HDMI output connection

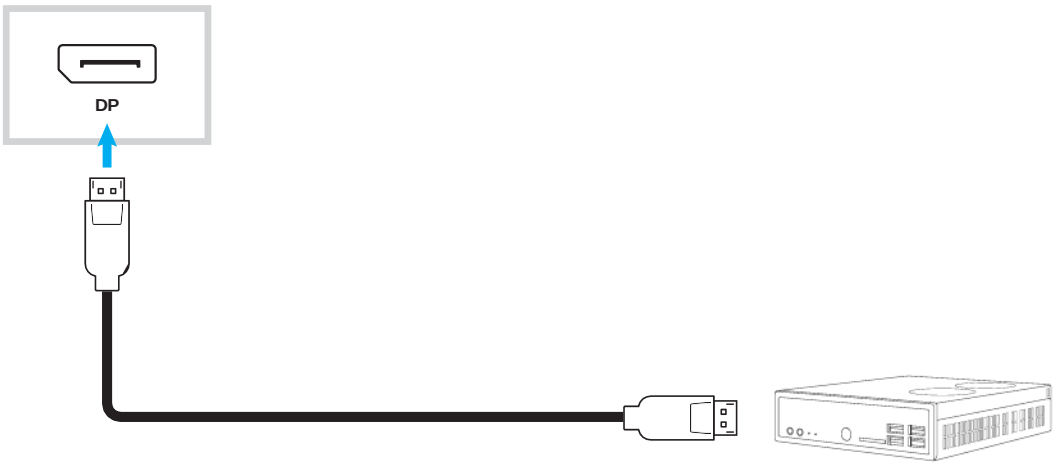
Connect your projector to the HDMI out port on the IFP.



SETUP AND INSTALLATION

DisplayPort connection

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

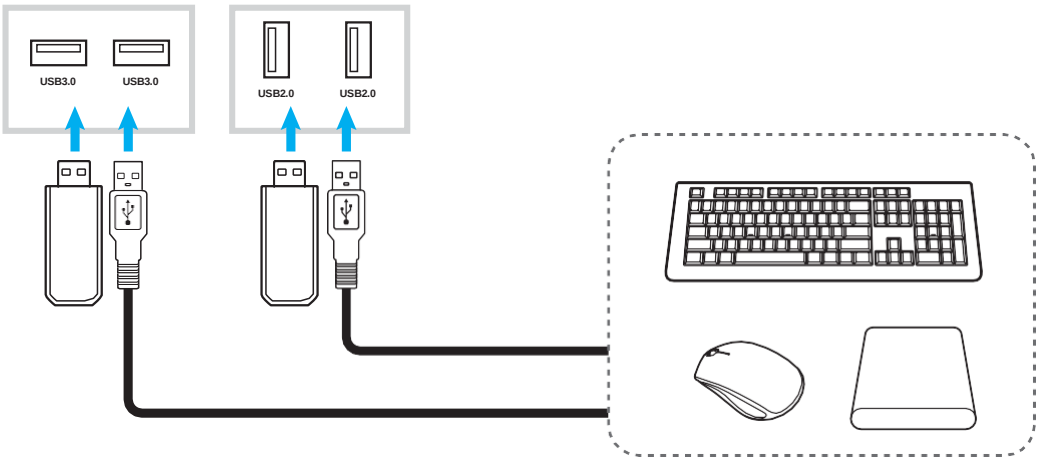


USB connection

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

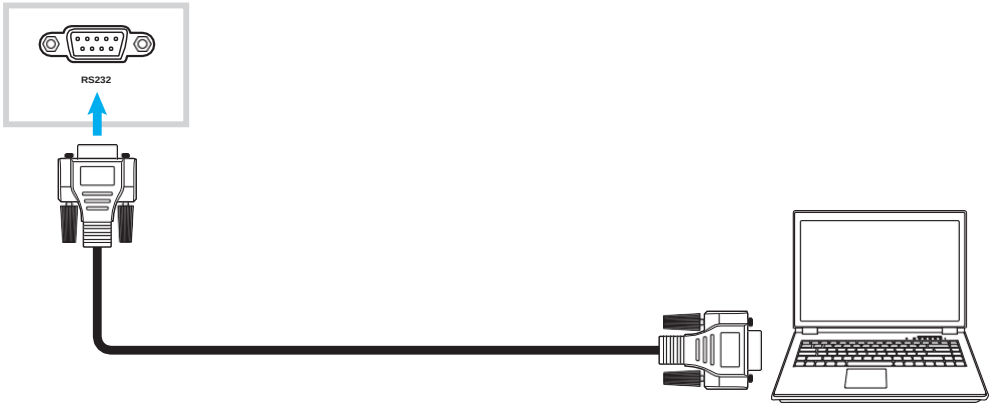
Note:

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



RS232 connection

Connect your computer to the IFP using a RS232 cable.



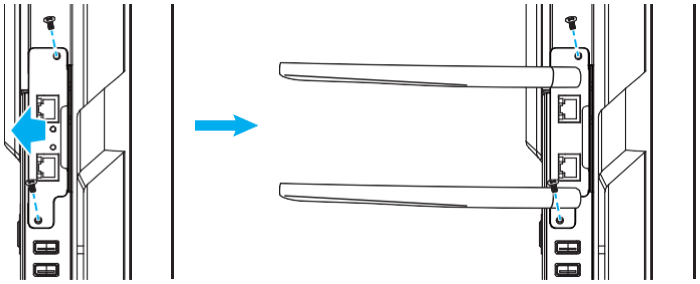
SETUP AND INSTALLATION

Wi-Fi connection (optional)

For a Wi-Fi connection, you must first install either a wireless network module or a Wi-Fi dongle. These devices can receive wireless signals in areas where Wi-Fi networks are available.

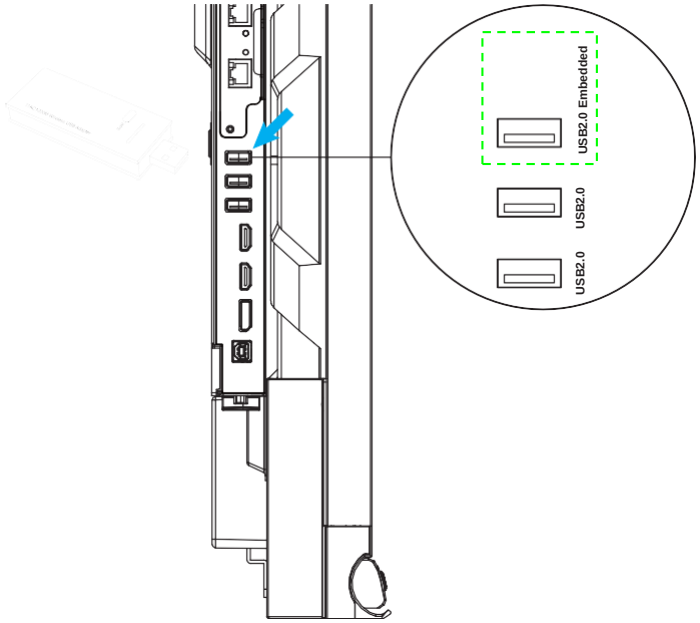
Wireless module installation:

First, remove the non-wireless network module by removing any screws holding the network module in place and then sliding the module out. Next, slide in the wireless network module into the same slot. Secure the wireless network module using the same screws you removed in the previous step.



Wi-Fi dongle installation:

To install a Wi-Fi dongle, insert the USB Wi-Fi dongle into the USB 2.0 Embedded port.



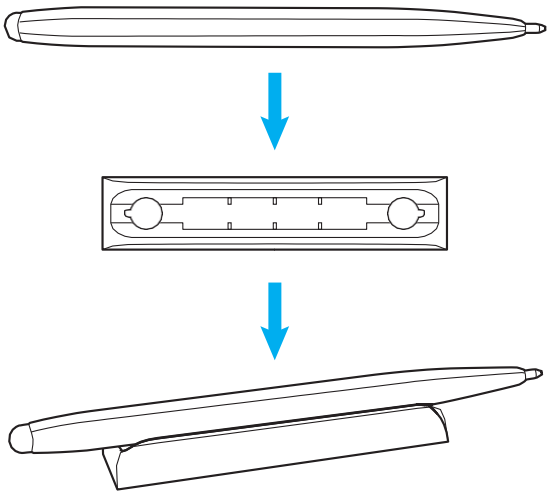
Note: *To configure Wi-Fi settings, refer to "Configuring Network Settings" on page 45.*

SETUP AND INSTALLATION

Touch pen holder connection

To install the touch pen holder, follow the steps detailed below:

1. Remove the adhesive protective covering to reveal the adhesive backing of the pen holder and push firmly for 30 seconds in the desired location on the display (such as the sides/frame OR to either side of the Optoma logo along the bottom frame, avoiding blocking access to front-facing ports, buttons, sensors, etc.).
2. Place the touch pen into the magnetic touch pen holder.



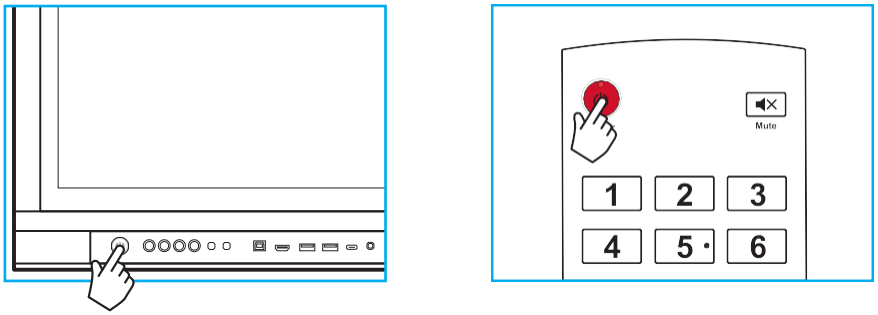
USING THE DISPLAY

Powering On/Off

Powering on

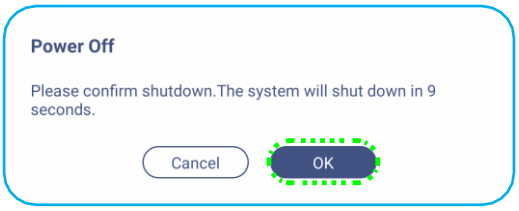
Note: *After the power cord is properly connected, make sure the **Power** switch is set to ON (**I**).*

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



Powering off

Press the **Power** button for 3 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: *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 DISPLAY

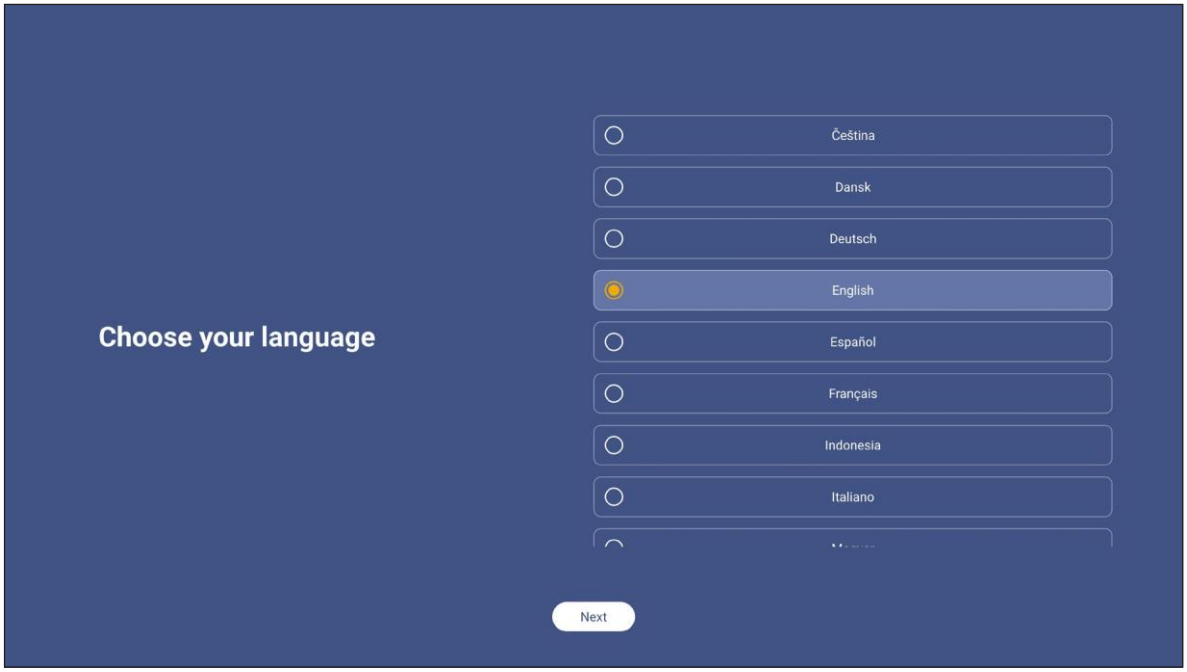
Setup Wizard

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

Note:

- *This IFP is equipped with a touch-sensitive screen. You can simply tap the touch screen to operate your IFP.*
- *If Wi-Fi will be used and you have not yet installed the Wireless module or a Wi-Fi dongle, please install BEFORE powering on the IFP. The Setup Wizard will help you to setup your Wi-Fi connection only if you pre-install your module or dongle before powering on and performing your first-time setup. For more information on installing the Wireless module or connecting the Wi-Fi dongle, refer to page 28.*

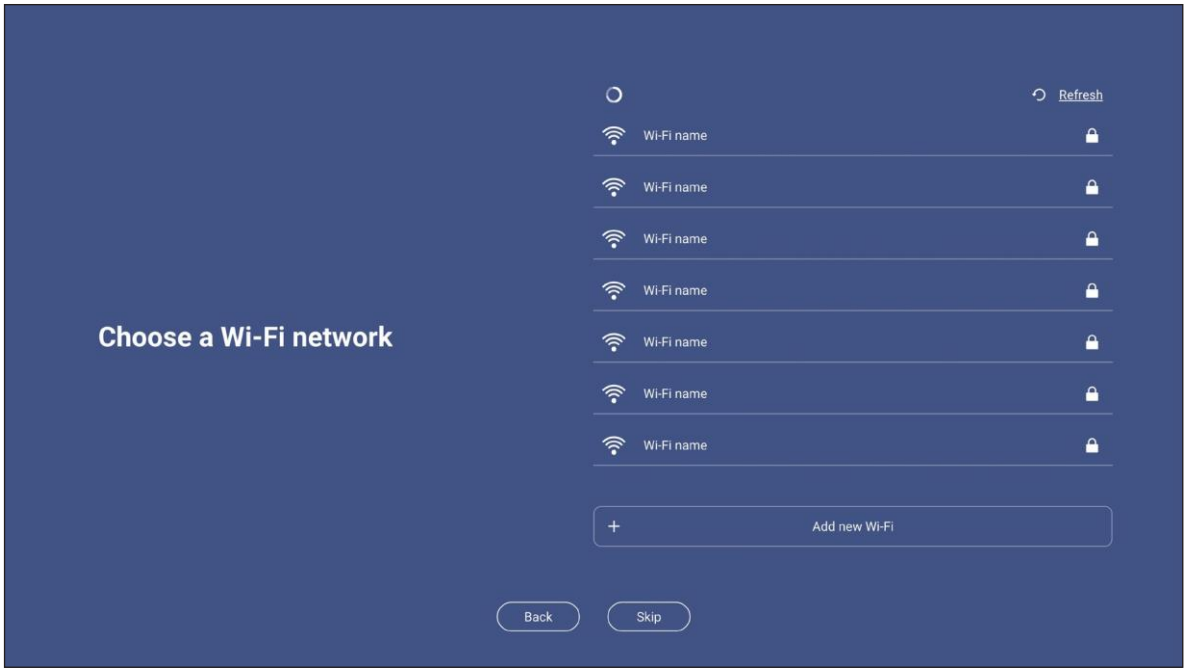
1. Select the language for the on-screen display (OSD) menu. Select ***Next*** to continue.



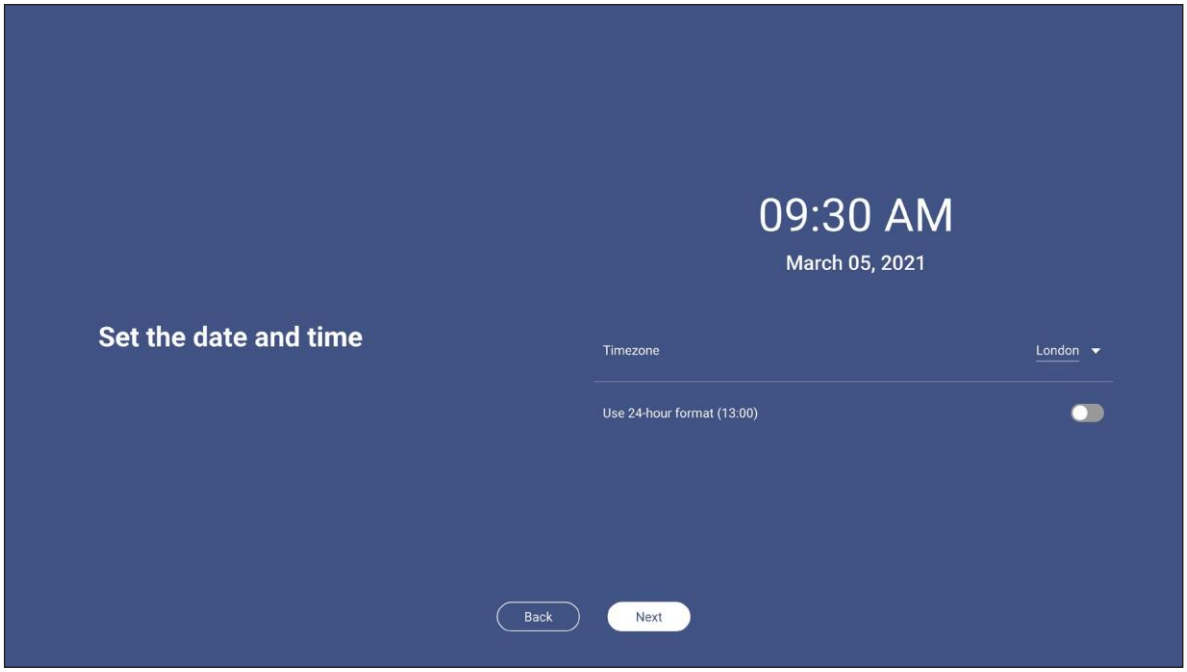
2. If you want to connect your IFP to the Internet wirelessly, select one of the available networks and tap **Connect**. Otherwise, select ***Skip***.

IMPORTANT!

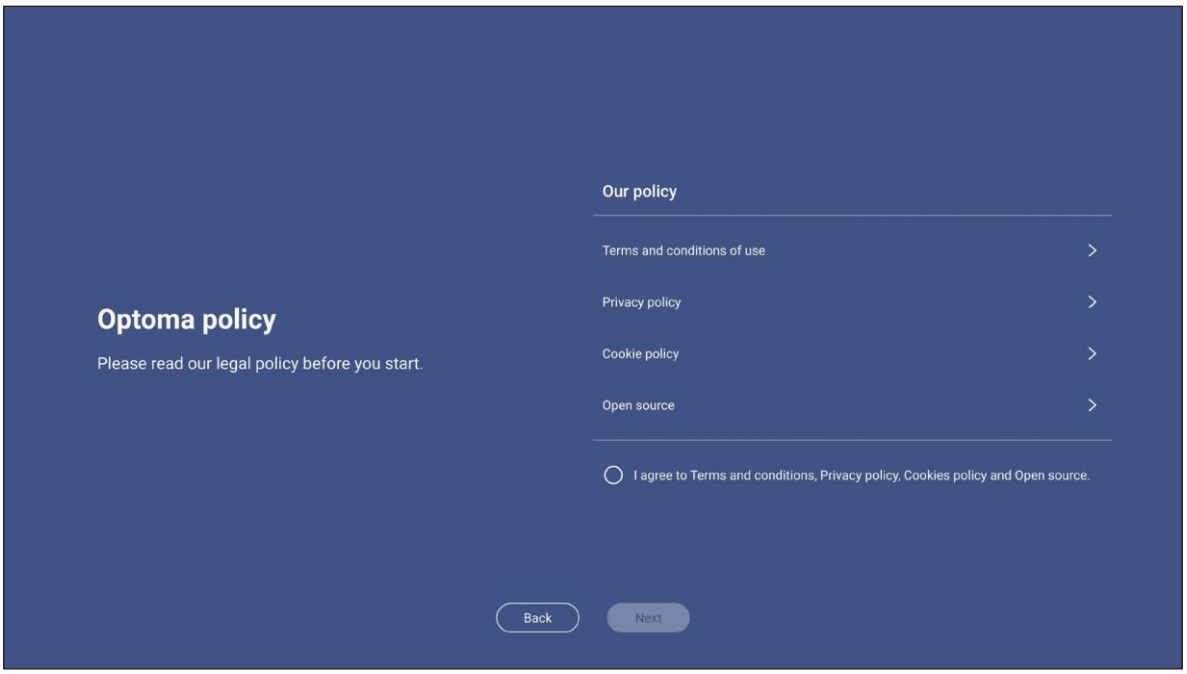
- *If you are connecting to a secure network, you will need to enter the password when connecting for the first time only.*



3. Configure the date and time related settings. Select ***Next*** to continue.



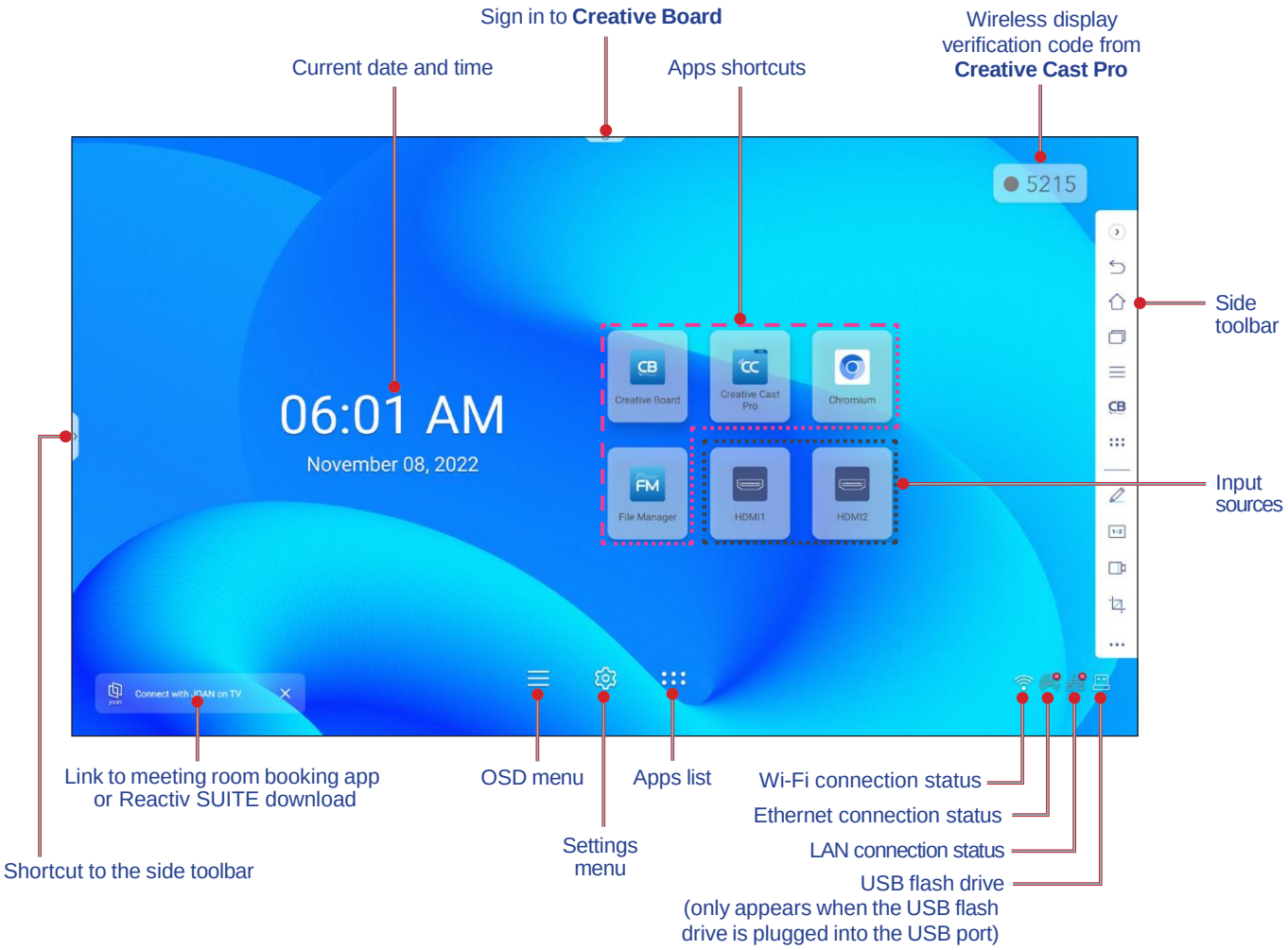
4. Read Optoma's legal policies, including Terms and conditions of use, Privacy policy, Cookie policy, and Open source. Check the ***I agree to Terms and conditions, Privacy policy, Cookies policy and Open source*** radio key and then select ***Next*** to complete the setup. The IFP is now ready to use.



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:

- Select an option: simply tap on the desired item.
- Adjust the setting: drag the slider to the left or to the right.
- Open the side toolbar: tap **>** or **<** on the left or right side of the screen.

Note:

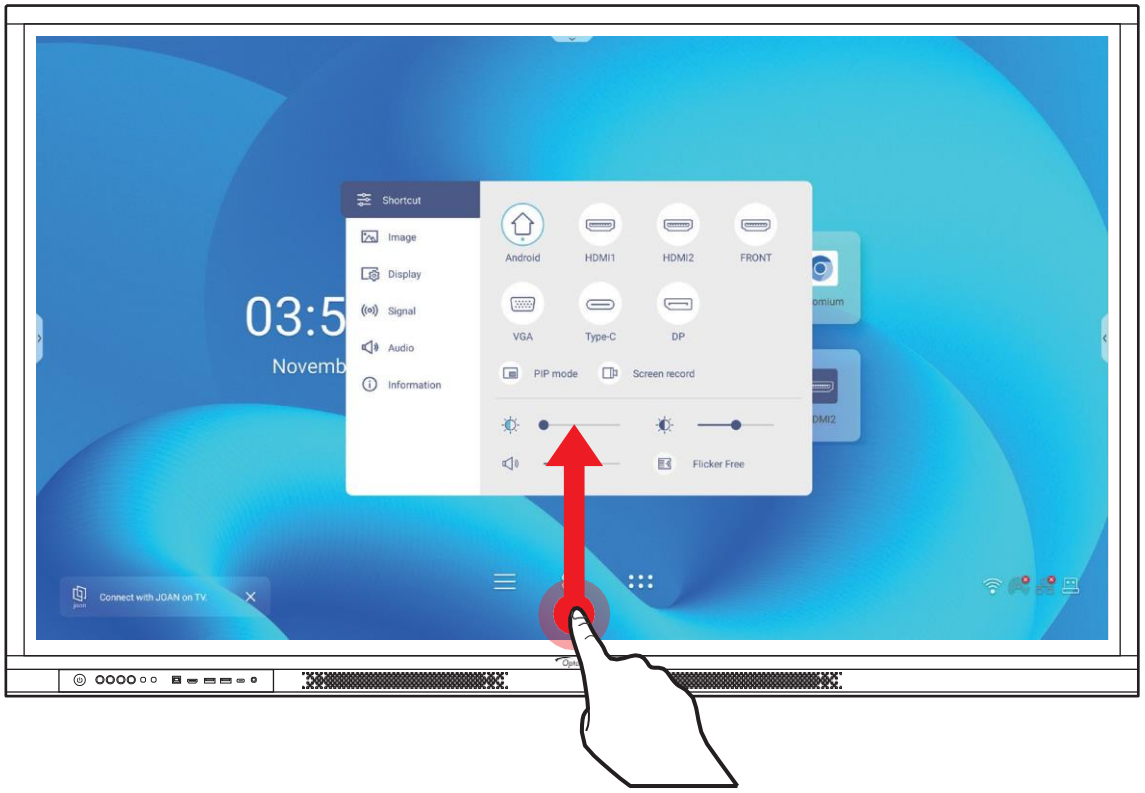
- *Unless otherwise specified, this section describes IFP operations using touch gestures.*
- *You can also use the control panel or remote control to operate the IFP.*

BASIC OPERATIONS

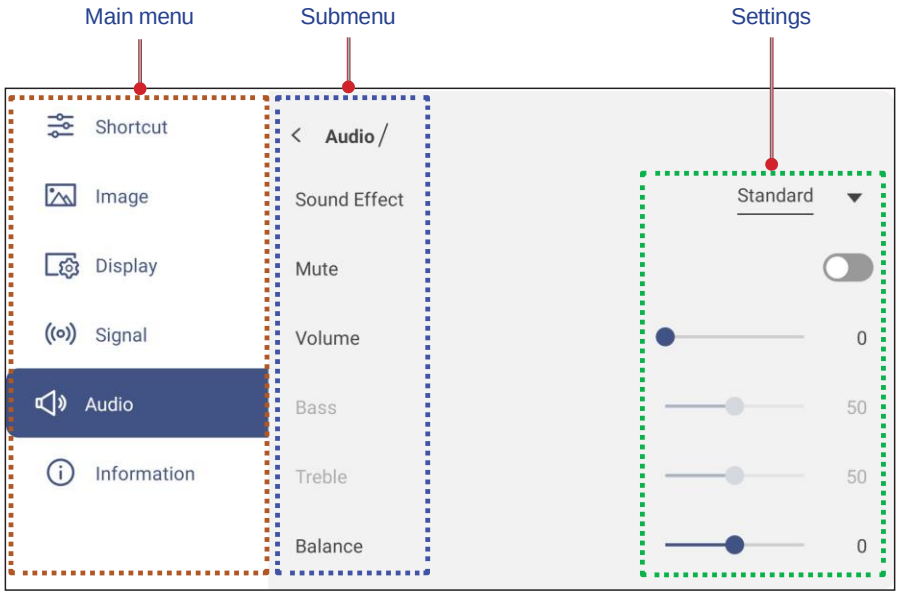
OSD Menu

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

- On any screen, drag the bottom of the screen upwards.



- Press the ***Menu*** or ***Source*** key on the remote control.
- Tap ☰ on the control panel or the Home screen.



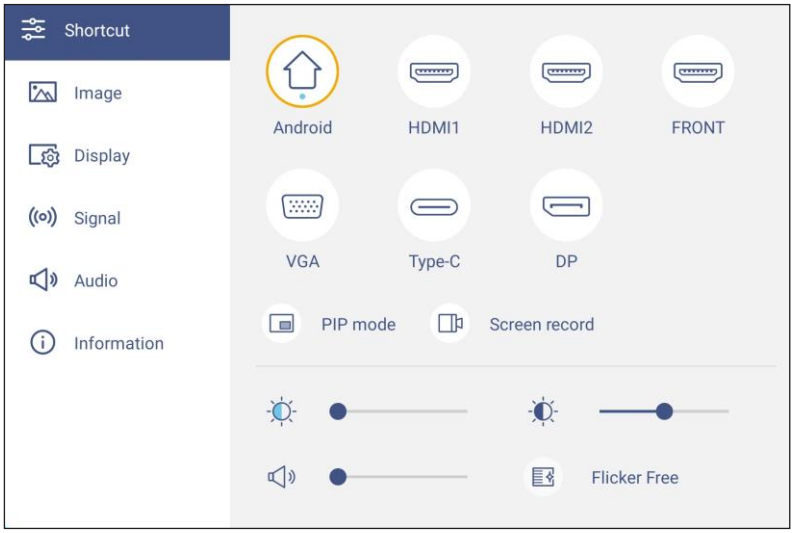
Note:

- *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 with an* ***orange*** *rectangle.*
- *To move to the previous item in the menu, tap <, press* ***Return*** *on the remote control, or press ⮌ on the control panel.*

- *To close the OSD menu, touch anywhere on the screen outside the menu, press **Menu** again on the remote control, or press ⮌ again on the control panel.*

Shortcut Menu

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



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

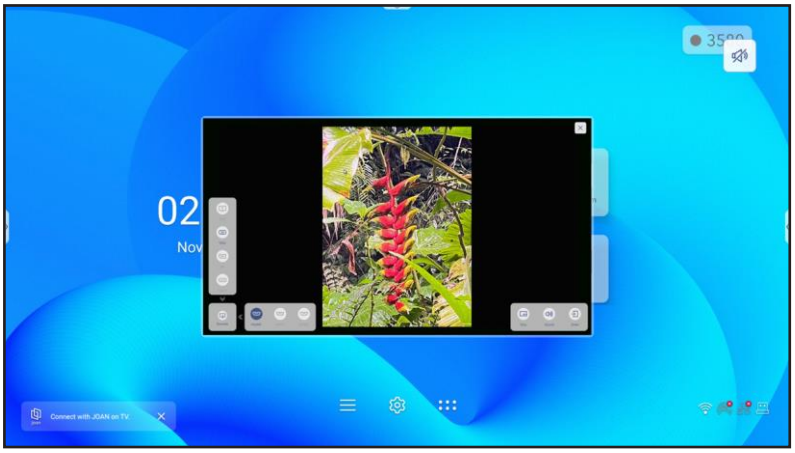
Note:

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

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

Note:

- *Before selecting the PIP mode, make sure the other source is already connected to the IFP.*
- *The PIP mode can only be used with Android source.*



PIP mode (continued)

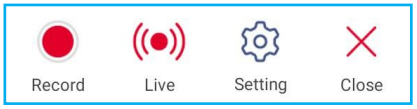
Tap any of the following:

- ***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.
- ***Enter*** to close the PIP mode and switch to the second source.
- ✕ to close the PIP mode and display the primary source only.

- Tap ***Screen record*** to record video from the IFP's screen and connected camera screen (if enabled) and hold live stream on multiple platforms.

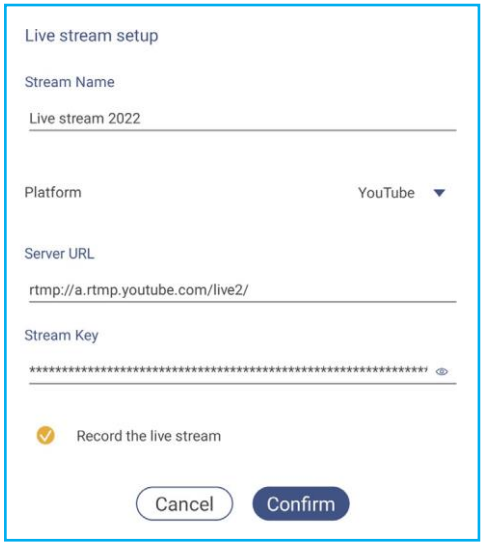
  Note:

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



Tap any of the following:

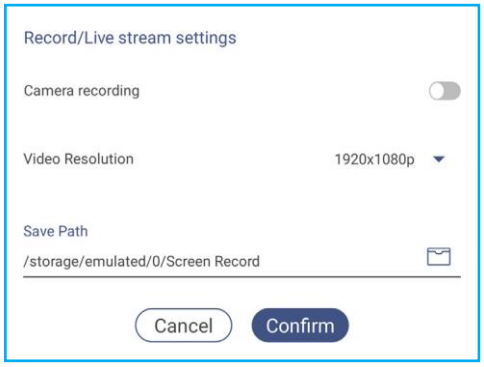
- ***Record*** ● to start recording the screen. The recording starts 3 seconds after you tap ●. While recording, tap ❙❙ to pause recording or ■ to stop recording. Then tap ***Save*** to save the recording.
- ***Live*** to start live streaming. First you need to configure the streaming settings: enter the title to the Stream Name field, select the streaming platform among YouTube, Facebook, and Twitch, enter the streaming server URL and streaming key to the Server URL and Stream Key fields respectively. Then enable or disable recording the live stream. Tap ***Confirm*** to start the live stream.



- ***Setting*** to configure recording settings: enable or disable connected camera recording, select the preferred video resolution, and select the path where you want the recordings to be saved. Then tap ***Confirm*** to save the settings.

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

BASIC OPERATIONS



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

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

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

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

IMPORTANT! *Studies have shown that just as 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! *To protect your eyes against prolonged display use, we highly recommend you do the following:*

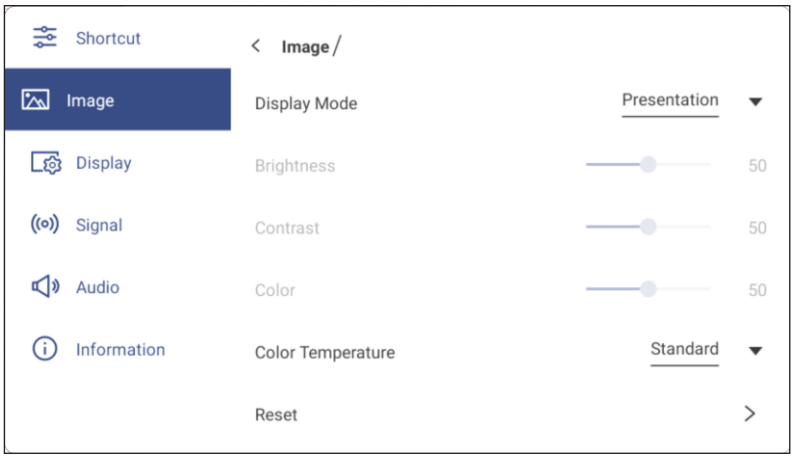
- *Let your eyes rest for 10 minutes after 2 hours of continuous use.*
- *Roll your eyes upward towards your eyebrows, and then roll your eyes in a large circle every few hours.*
- *For every 20 minutes of display viewing, look into the distance for 20 seconds.*
- *When your eyes get sore, close your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

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

BASIC OPERATIONS

Configuring Image Settings

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

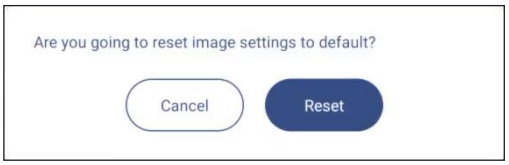


- Tap ***Display Mode*** and select one of the available options: Presentation, Bright, Cinema, HDR, or User.

  Note:

  - *Image settings can only be adjusted in HDMI, VGA, OPS, DP 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.

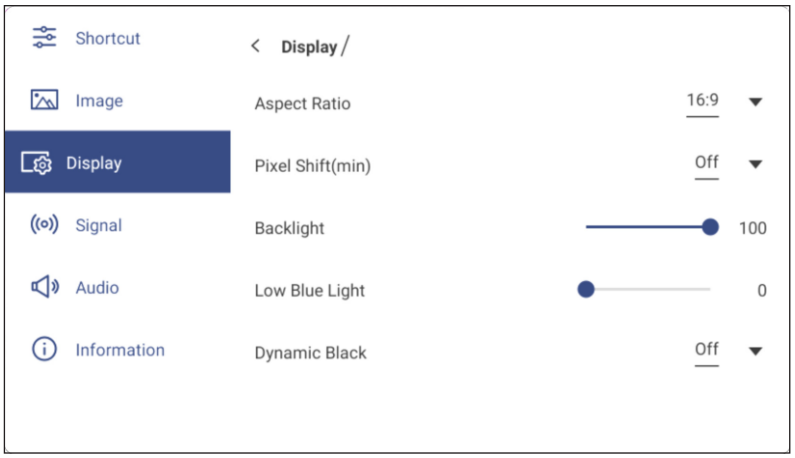
  Note: *Brightness level, contrast level, and color level can be adjusted only if the Display Mode is set to **User**. In other display modes these parameters are preset and cannot be adjusted.*
- Tap ***Color Temperature*** and select one of the available options: Standard, Warm, or Cold.
- Tap ***Reset***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



BASIC OPERATIONS

Configuring Display Settings

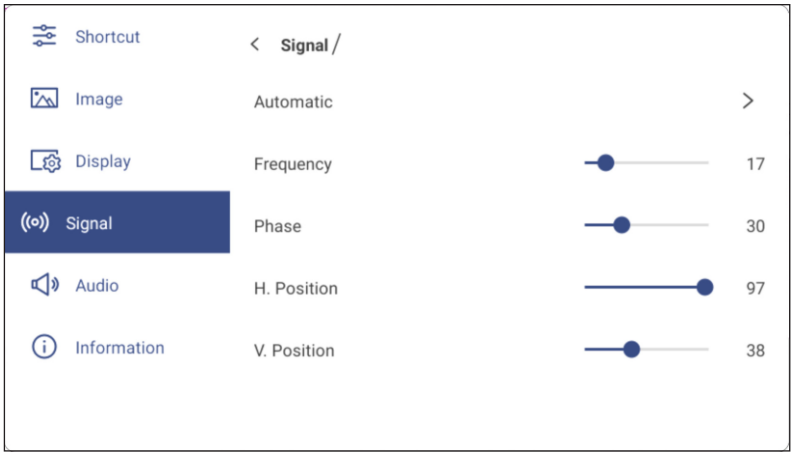
In the OSD menu, tap to open the Display menu, then complete the following steps:



- Tap ***Aspect Ratio*** and select one of the available options: 16:9, 4:3, or PTP (Pixel To Pixel).
  Note: *For 4K input, the aspect ratio will be locked to PTP. For non-4K input, PTP will be grayed out and user can select only 4:3 or 16:9 as aspect ratio.*
- 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 36.*
- 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 36.*
- 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.*

Configuring Signal Settings (for VGA input only)

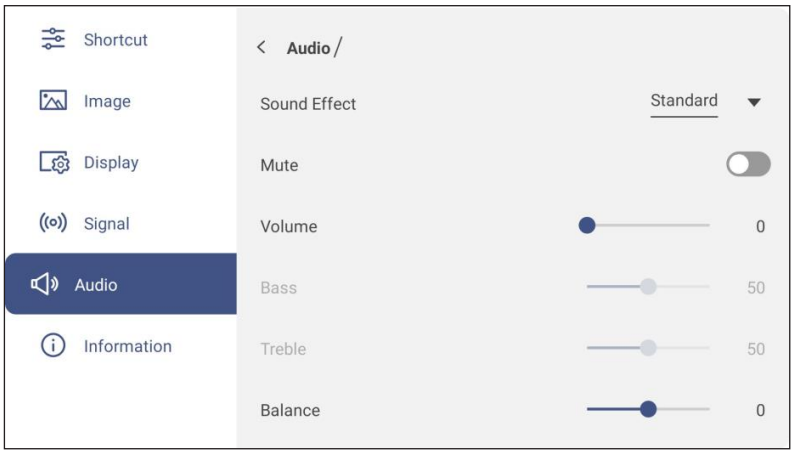
In the OSD menu, tap to open the Signal menu, then complete the following steps:



- Tap ***Automatic*** to automatically adjust the image to its optimized frequency, phase, and position.
  Note: *You can also adjust the image by pressing the [A] key on the remote control.*
- Drag the ***Frequency*** slider bar to adjust the vertical noise of the image.
- Drag the ***Phase*** slider bar to adjust the horizontal noise of the image.
- Drag the ***H. Position*** slider bar to adjust the image horizontal position manually.
- Drag the ***V. Position*** slider bar to adjust the image vertical position manually.

Configuring Audio Settings

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

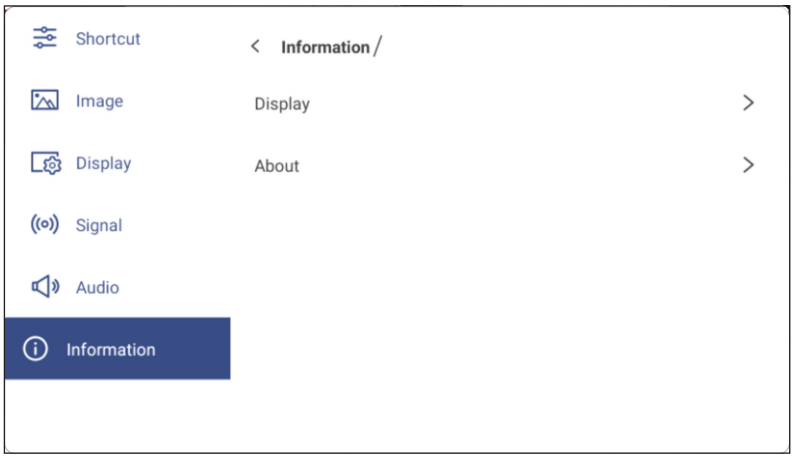


- Tap ***Sound Effect*** and select one of the available options: Standard, Meeting, Class, Movie, or User.
  Note: *If the sound effect setting is set to **User**, you can customize audio settings by adjusting the bass and treble level according to your preference.*
- Tap ***Mute*** to mute or unmute audio.
  Note: *You can also mute or unmute audio by pressing the [×] key on the remote control.*
- Drag the ***Volume*** slider bar to adjust the volume level.
- 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:



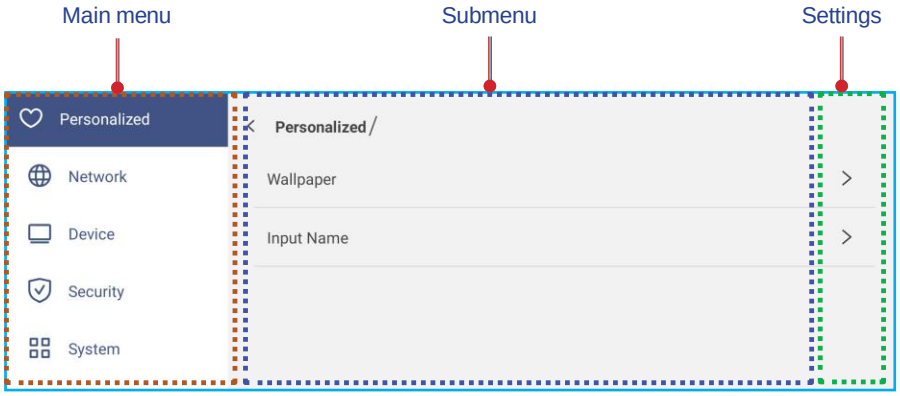
- Tap ***Display*** to view display mode, current input source, resolution, color depth, and color format.
- Tap ***About*** to view regulatory model name, serial number, firmware version, and Android version.

BASIC OPERATIONS

Android Settings Menu

To open the Settings menu, tap on the Home screen or press the ***Setting*** key on the remote control.

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

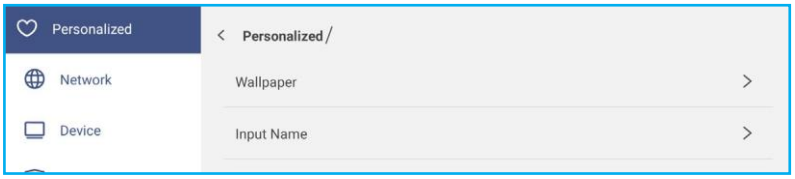


Note:

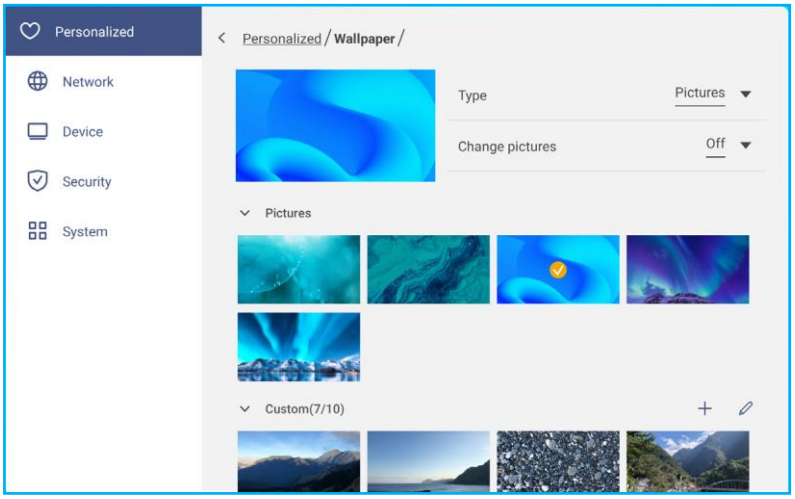
- *To configure Android settings, simply touch the menu item on the screen and use the screen controls to adjust its value or set the setting. The selected menu item is highlighted with an **orange** rectangle.*
- *To move to the previous item in the menu, tap <, press **Return** on the remote control, or press ⮌ on the control panel.*
- *To close the Settings menu, touch anywhere on the screen outside the Settings menu or press **Setting** again on the remote control.*

Personalizing the System

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



- 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.

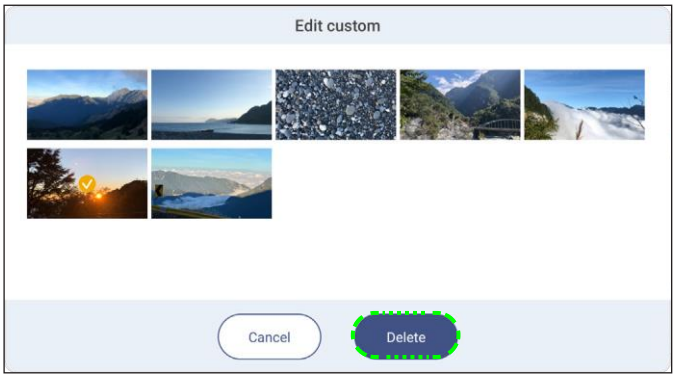
If you prefer to use a customized wallpaper, follow these steps:

a) In the Custom folder tap +.

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

c) In the Custom folder tap on the image you wish to use as a wallpaper. The setting takes effect immediately.

Note: *To delete images in the Custom folder, tap . Then select the image and tap* ***Delete****.*

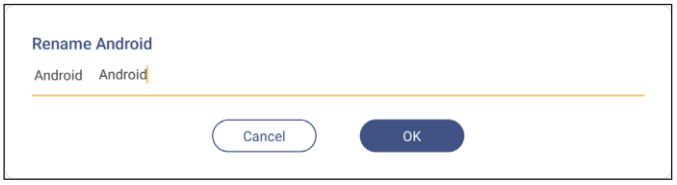


- ***Type***: Select the image type.

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

Note: *You can also set a wallpaper directly from the* ***File Manager*** *gallery. For more information on the* ***File Manager****, refer to page 87.*

- Tap ***Input Name*** to rename the input. Tap on the input name you wish to change, then type a new name and confirm name modification by tapping **OK** at the prompt.

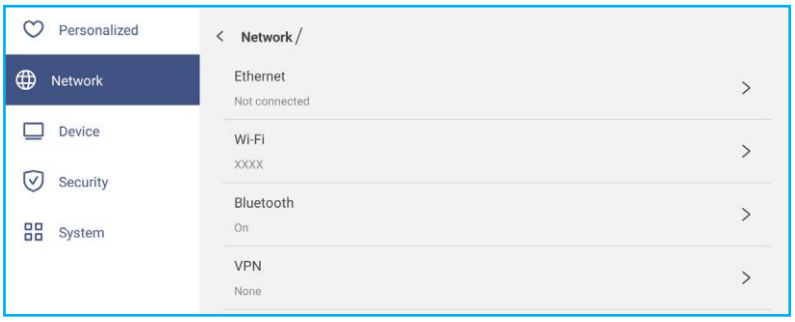


BASIC OPERATIONS

Configuring Network Settings

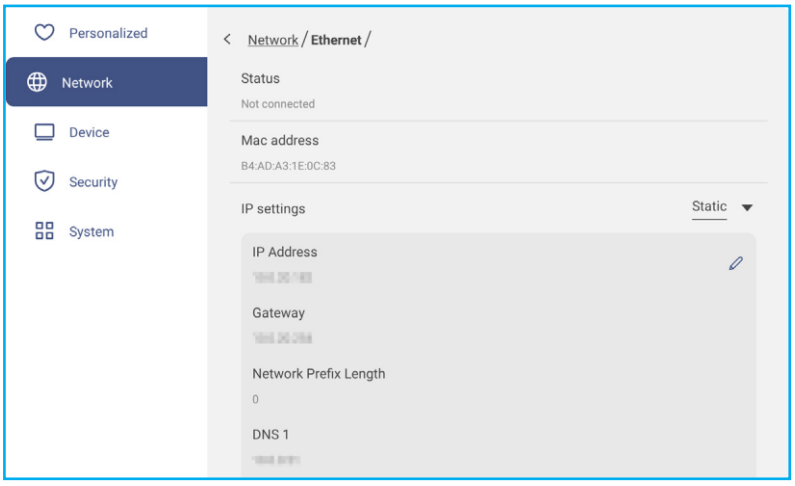
Note: *Before configuring network settings, make sure to connect the Wi-Fi dongle (optional), network module, and/or Wi-Fi module (optional) to the IFP.*

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



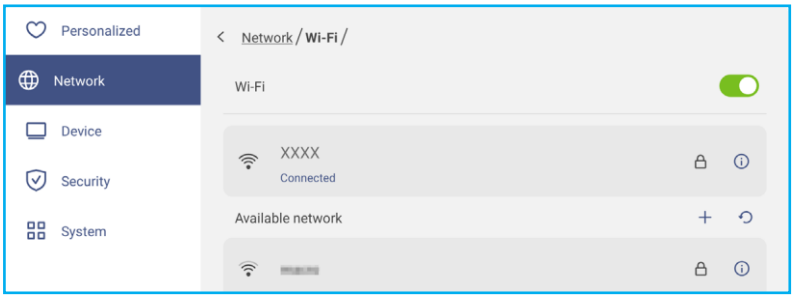
- Tap ***Ethernet*** to configure LAN settings and view the current connection status. In the IP settings section select the network type between static and DHCP. If you set the network type as ***Static*** then tap and enter the connection settings, such as IP address, gateway, network prefix length, and more.

  IMPORTANT! *To connect to a wired network, the network module or the wireless network module with ethernet must be installed on the IFP.*



- Tap ***Wi-Fi*** to connect the IFP to the Wi-Fi network and view current connection status. Make sure the Wi-Fi function is enabled. In the Available network list, tap on your preferred Wi-Fi network, for example XXXX. Provide an access password if needed.

  IMPORTANT! *To connect to a Wi-Fi network, make sure the Wi-Fi dongle (optional) or Wi-Fi module (optional) is properly connected to the IFP. For more information, refer to page 28.*



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 .*

BASIC OPERATIONS

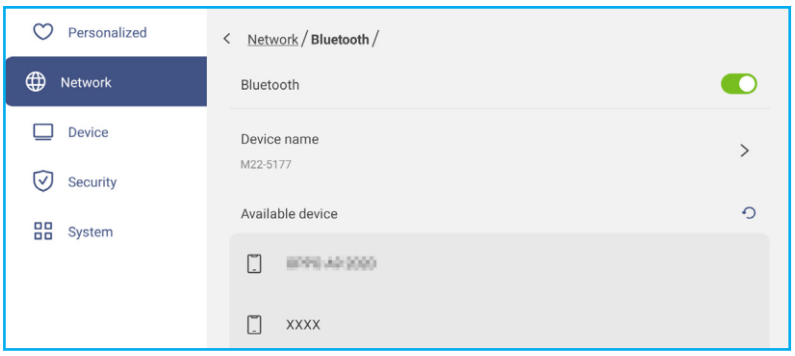
- Enable ***Portable hotspot*** feature to share the Wi-Fi network to other wireless devices. Modify the network name and set an access password if necessary.

Note: *For a secure connection, set the Wi-Fi encryption (Security field) as **WPA2-PSK**. Then enter the access password and tap **OK**.*

- Tap ***Bluetooth*** to enable Bluetooth and connect to other nearby Bluetooth devices. This interactive display supports Bluetooth version 5.2 and can connect for example to a Bluetooth keyboard, mouse, and speaker. Tap the following:

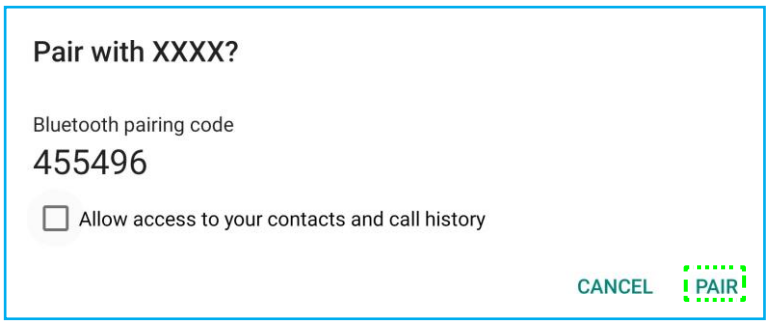
  - ***Device Name*** to enter a new device name. To confirm the modification, tap ***OK*** at the prompt.

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

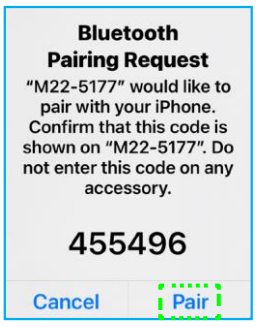


Make sure the pairing codes match on both devices and if they match, tap ***Pair*** to confirm.

IFP



Portable Device

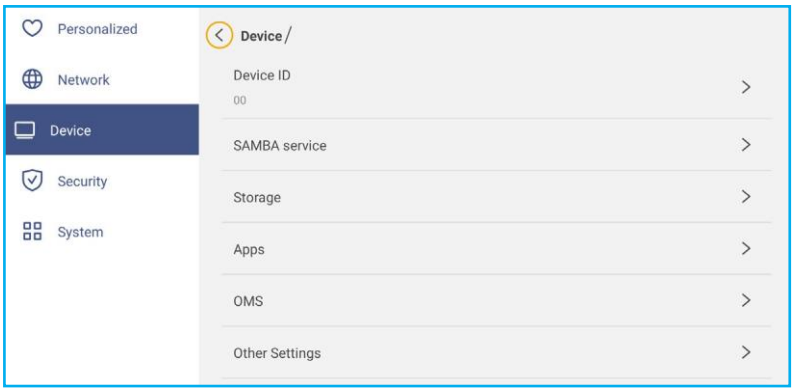


Note: *If the Bluetooth device is not visible in the list of available devices, make sure the device is nearby the IFP and Bluetooth is enabled. Then tap ↻ to refresh the list.*

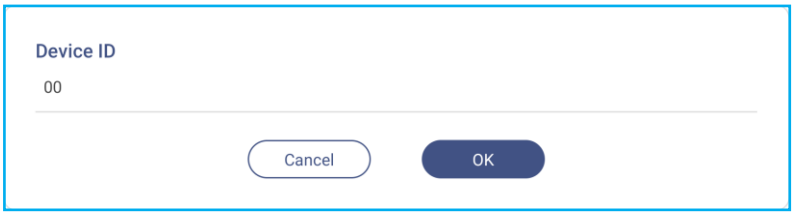
BASIC OPERATIONS

Configuring Device Settings

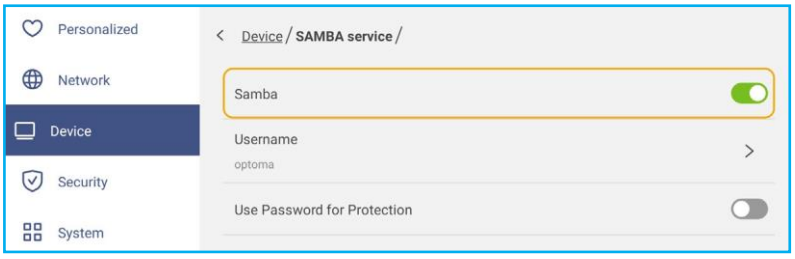
In the Settings menu, tap to open the Device menu, then complete the following steps:



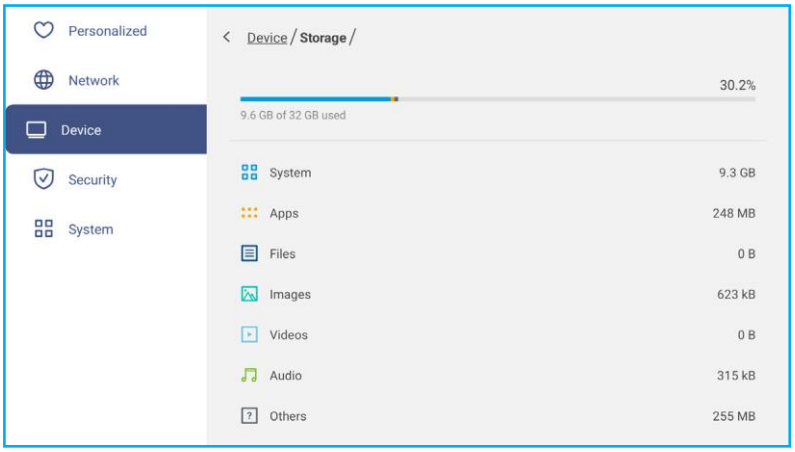
- Tap ***Device ID*** to assign a new ID to the IFP. To confirm, tap ***OK***.



- Tap ***SAMBA service*** to enable or disable file and print service from the IFP to other devices. Configure the following settings:
  - ***Samba***: Enable or disable the Samba service.
  - ***Username***: Enter username for accessing the Samba server.
  - ***User Password for Protection***: Enable or disable password input when accessing the Samba server. If enabled, create up to 11 digit long password.

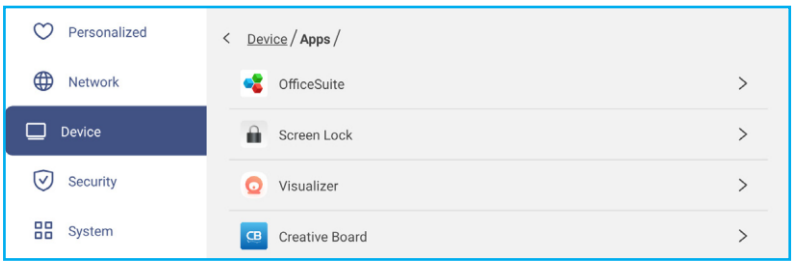


- Tap ***Storage*** to view storage usage.

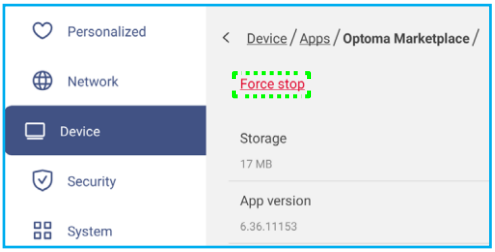


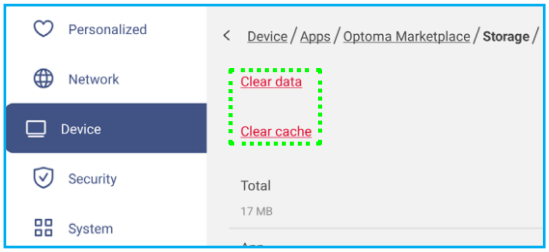
BASIC OPERATIONS

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

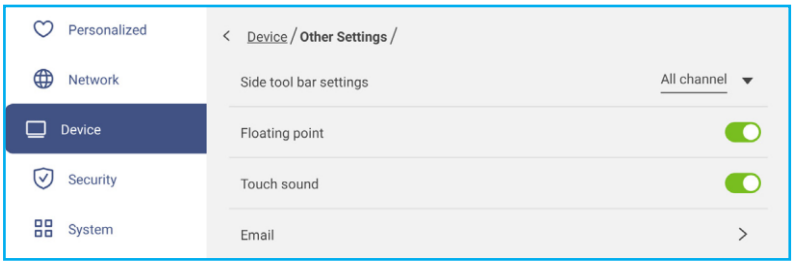


Select an app in the list to force stop it (tap ***Force stop***), view its storage and clear its data (tap ***Clear data***) and cache (tap ***Clear cache***), view app version and set permissions.





- Tap ***OMS*** to set up remote management settings. For more information, refer to page 106.
- Tap ***Other Settings*** to configure side toolbar, floating annotation toolbar, touch sound, and email settings.



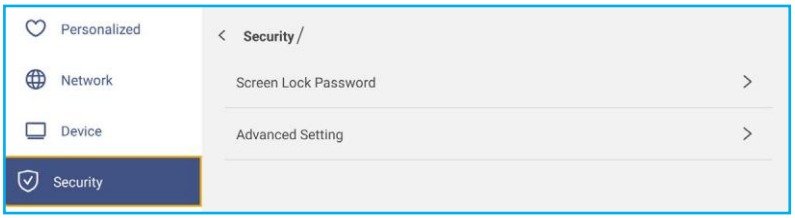
Tap any of the following:

- ***Side toolbar settings*** to select when the toolbar is visible: All channel, Only Android, All channels except OPS, or Disable the side toolbar.
- ***Floating Point*** to enable or disable floating annotation toolbar. For more information, refer to page 77.
- ***Touch Sound*** to enable or disable audio feedback when you tap items on the screen.
- ***Email*** to configure email settings. Enter the IP, ID, password, SMTP address, and other required information. Save the settings. Then tap ***Confirm*** to send a test email.

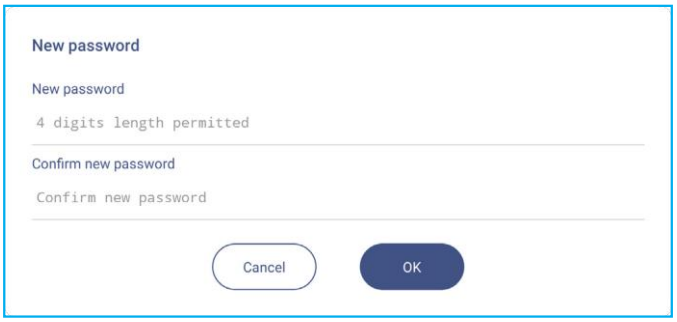
BASIC OPERATIONS

Configuring Security Settings

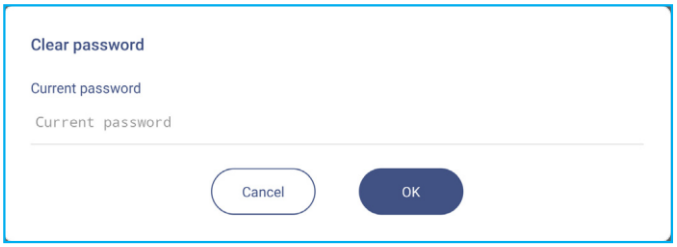
In the Settings menu, tap to open the Security menu, then complete the following steps:



- Tap ***Screen Lock Password*** to set screen lock password. Enter a 4-digit password twice at the prompt and then tap ***OK*** to confirm.



Note: *To remove the screen lock password, tap **Clear Screen Lock Password** (visible only if the password is set) and enter the current password. Then tap **OK** to confirm.*

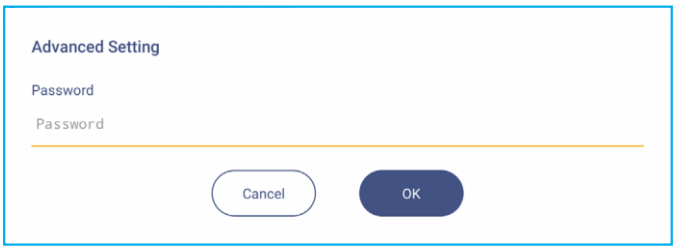


- Tap ***Advanced Setting*** to set or modify the Advanced Setting password and enable or disable installing third party applications. Do the following:

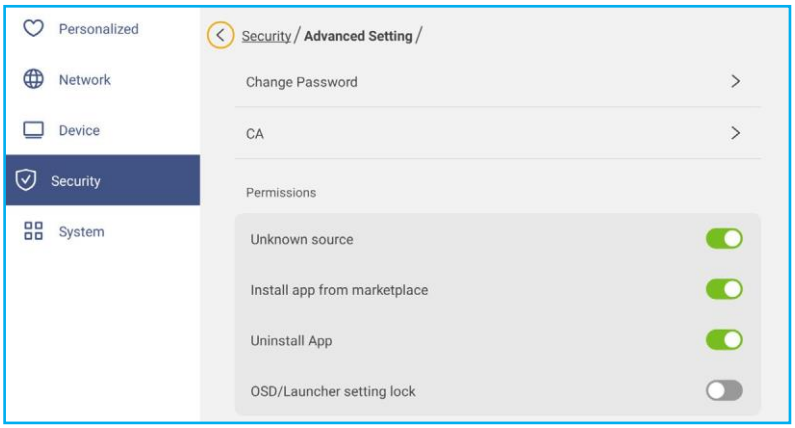
  Note: *The DEBUG MENU advanced settings can be also accessed with the Advanced Setting password set in this menu.*

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

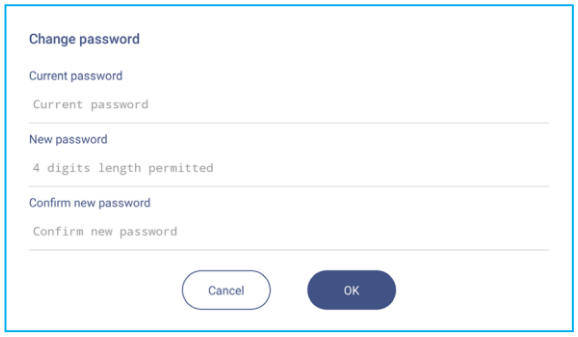
  Note: *The default password is **1 + 2 + 3 + 4**.*



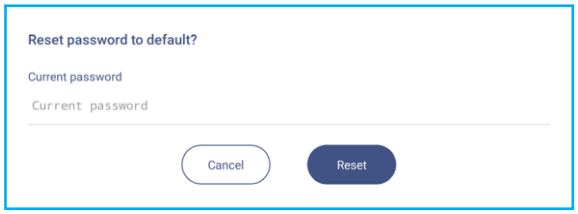
b) Select any of the following items:



- ***Change password***: Enter the current password and twice the new password. Then tap ***OK*** to confirm.



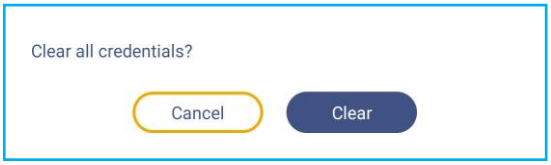
- ***Reset password to default***: Enter the current password and tap ***Reset*** to confirm. The password is reset to ***1 + 2 + 3 + 4***.



- Tap ***CA*** to 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 ***Clear*** at the prompt to confirm.



  - Under Permissions, tap ***Unknown source*** and enable or disable installing third party software from an unknown source.
  - Under Permissions, tap ***Install app from marketplace*** and enable or disable installing third party software from ***Optoma Marketplace***.

- Under Permissions, tap ***OSD/Launcher setting lock*** and enable or disable modifying OSD menu settings.
- Under Clone, tap ***Import Launcher setting*** to import launcher settings from the storage.
- Under Clone, tap ***Export Launcher setting*** to export launcher settings to the storage.

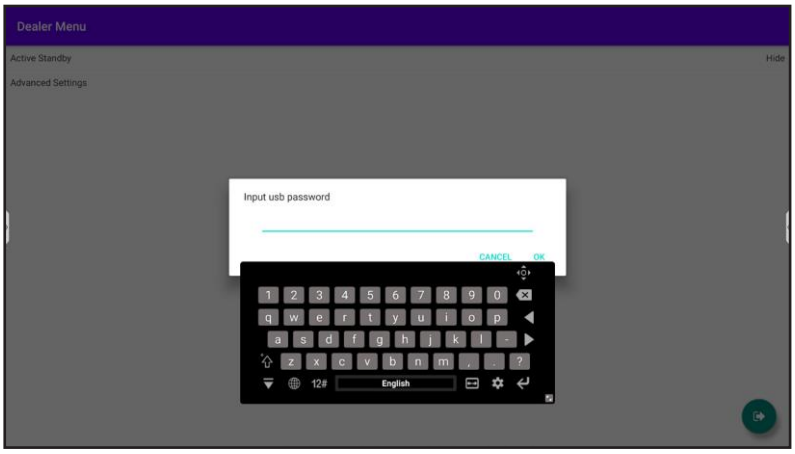
Enabling or Disabling USB Wi-Fi/USB Disk

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***.

Note: *The default password for Advanced Settings is 1 + 2 + 3 + 4.*



c) Tap ***USB Disk Enable*** to enable or disable USB Wi-Fi/USB disk. The modifications will take effect immediately.

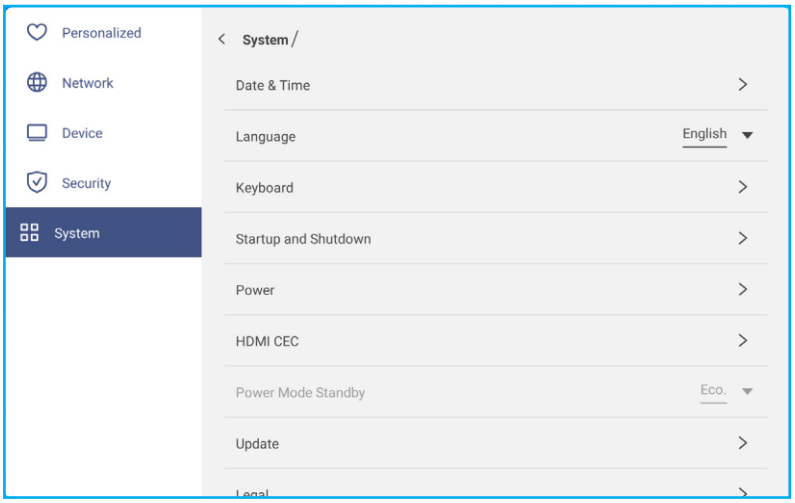
Note: *The modifications will take effect immediately.*

d) Tap to close the Dealer Menu.

BASIC OPERATIONS

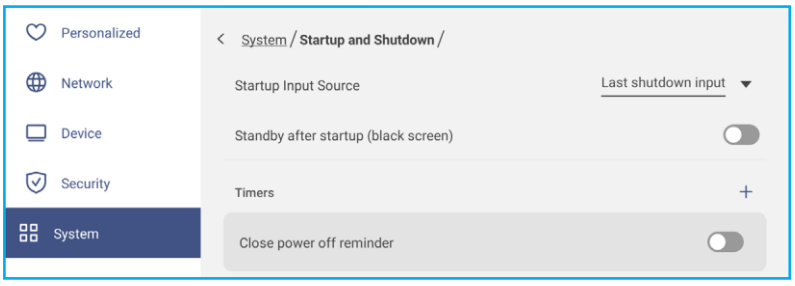
Configuring System Settings

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:

  - ***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: English, French, Spanish, Traditional Chinese, Simplified Chinese, Portuguese, German, Dutch, Polish, Russian, Czech, Danish, Swedish, Italian, Turkish, Arabic, Romanian, Hungarian, Finnish, or Norwegian.
- Tap ***Keyboard*** to view and manage keyboards.
- Tap ***Startup and Shutdown*** to configure settings related to starting and shutting down the IFP. Tap any of the following:

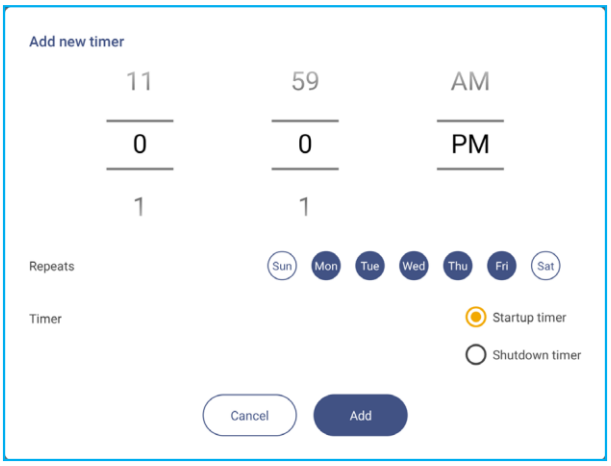


  - **Startup Input Source** item to select one of the available startup input options: Last shutdown input, Android, HDMI1, HDMI2, Front, DP, VGA, or Type-C.
  - ***Standby after startup (black screen)*** to enable or disable standby after startup.
  - ***Close power off reminder*** to enable or disable closing power off reminder when the IFP is scheduled to shut down.
  - ***Timers*** ⇒ + to set a startup and shutdown timer. To create a schedule, do the following:

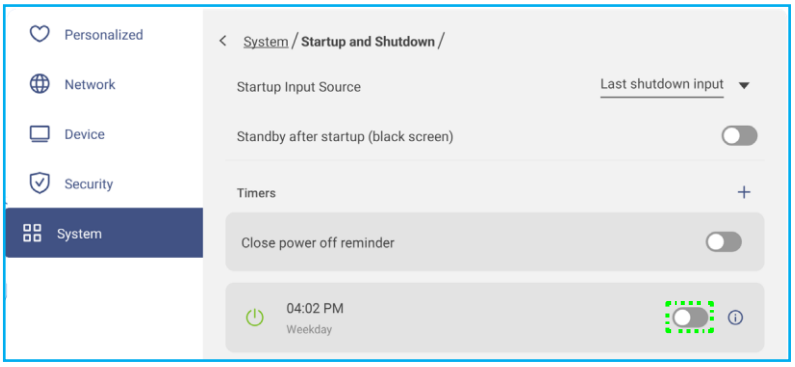
a) To enable startup timer and/or shutdown timer, select the radio key next to ***Startup timer*** and ***Shutdown timer***.

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

c) Tap ***Add*** to save the timer.



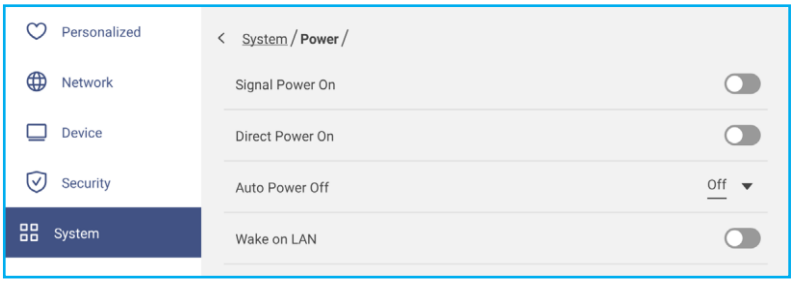
d) Enable (or disable) the new schedule in Timers menu.



Note:

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

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



- ***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 from the power source.
  Note: *Direct power on feature aids installations that rely on power-on timers.*
- ***Auto Power Off*** item 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), 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, or 60.
- ***Wake on LAN*** to enable or disable remotely starting up the IFP over LAN.
  Note: *Wake on LAN can't work and will be gray out when Power Mode (Standby) is set to* ***Active****.*

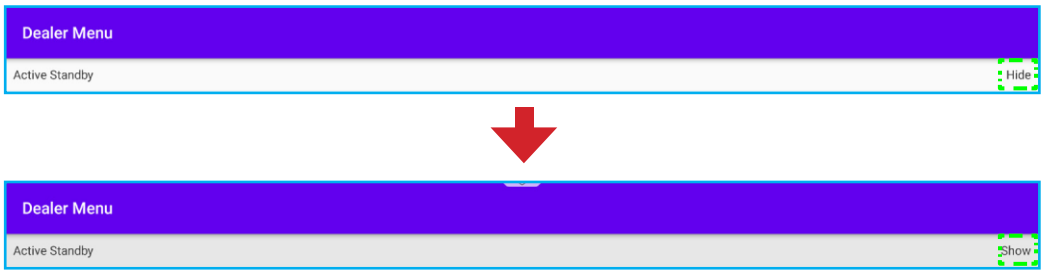
BASIC OPERATIONS

- 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*** item to select one of the available options: Eco or Active. By default, ***Active*** item is not visible. To enable ***Active*** option, do the following:

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

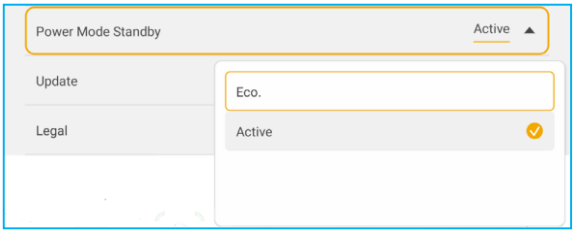
  The Dealer Menu opens.

  b) Tap ***Active Standby*** to activate the Power Mode Standby item. The status “Hide” becomes “Show”.



  c) Tap to close the Dealer Menu.

  Active option is available in the System ⇒ Power Mode Standby menu.

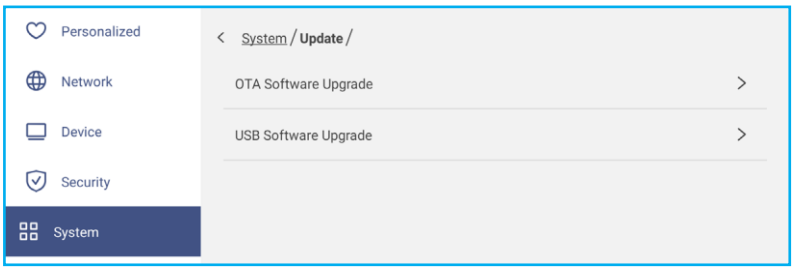


Note:

- ***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 system only turns off backlight and mainboard is still working to listen for power on command from LAN and* ***OMS****. If you don’t have remote power on requirement, 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. It will help IFP system to release memory and CPU loading.*

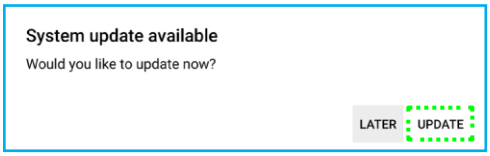
BASIC OPERATIONS

- Tap ***Update*** to configure upgrading options. Tap any of the following:



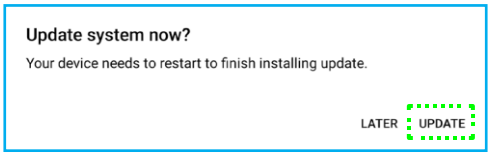
- ***OTA (Over-The-Air) Software Upgrade*** to enable or disable upgrading software over Internet. Tap ***Check update when power on*** to check for update file from the Internet when power on. Tap ***Auto Download*** to enable downloading update files automatically when power on.
  To update the system manually, do the following:

  a) Tap ***UPDATE*** at the prompt.



  b) Tap ***DOWNLOAD*** at the System Update window.

  c) Tap ***UPDATE*** to start the update process.

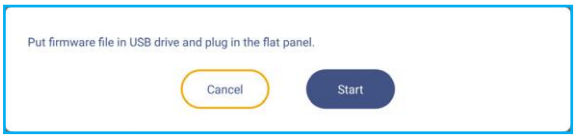


  Wait until the update process is complete.

  Note: *Upgrading software over Internet requires network connectivity.*

- ***USB Software Upgrade*** to update the system from a USB flash disk.

  Note: *To proceed with upgrading software, save the upgrade file to the USB flash disk first, then connect the disk to any USB port on the IFP. Open Advanced Settings ⇒ System ⇒ Update ⇒ USB Software Upgrade and tap **Start** at the prompt.*

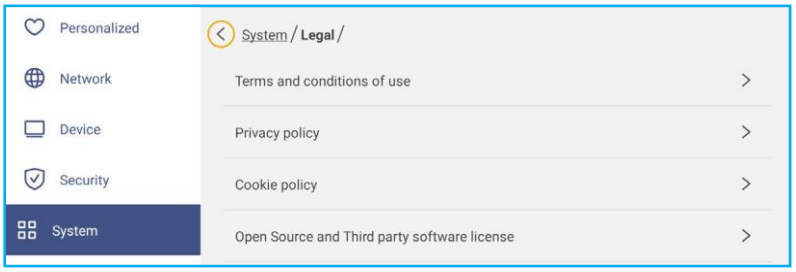


  Note: *If you upgrade IFP's firmware from a USB storage, uncompress the upgrade file first and then copy the uncompressed file to the USB root directory. Make sure the USB flash disk is formatted as FAT32.*

IMPORTANT!

- *During the update process, either OTA or from a USB storage, DO NOT power off the IFP and DO NOT remove the USB dongle from the IFP. Doing so will damage the system.*
- *If you update the IFP from a USB storage then all user data saved to the USB storage will be wiped out. If you update the IFP over Internet (OTA) then all user data remains intact.*

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

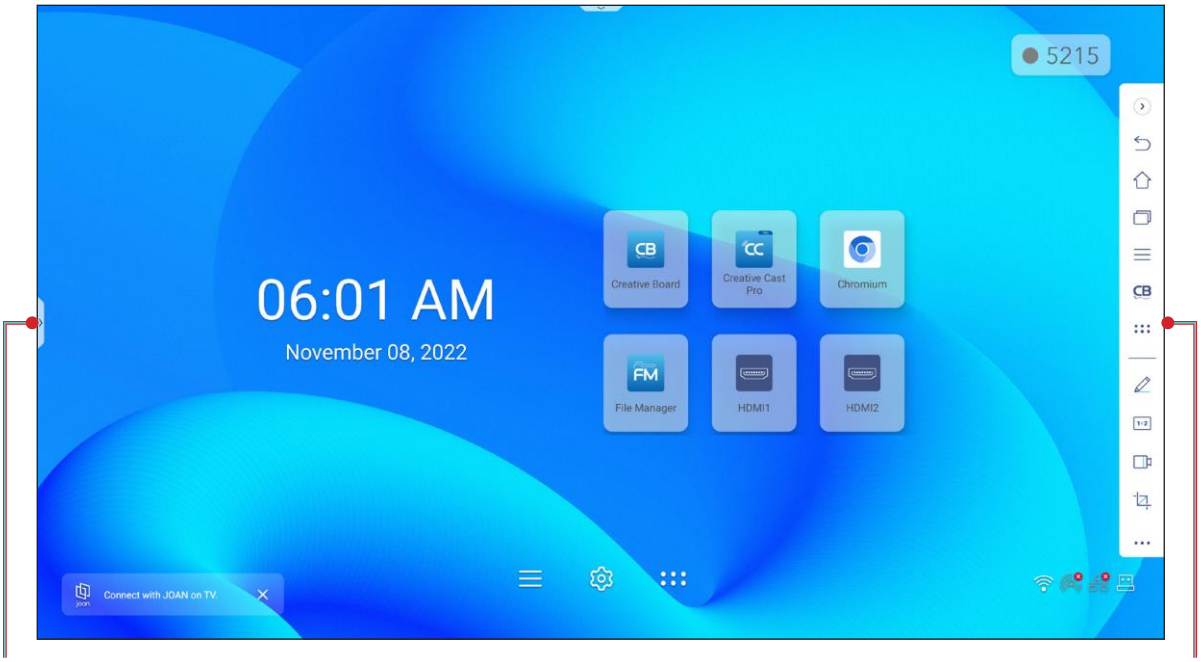


BASIC OPERATIONS

Side Toolbar

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

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



Shortcut to the side toolbar

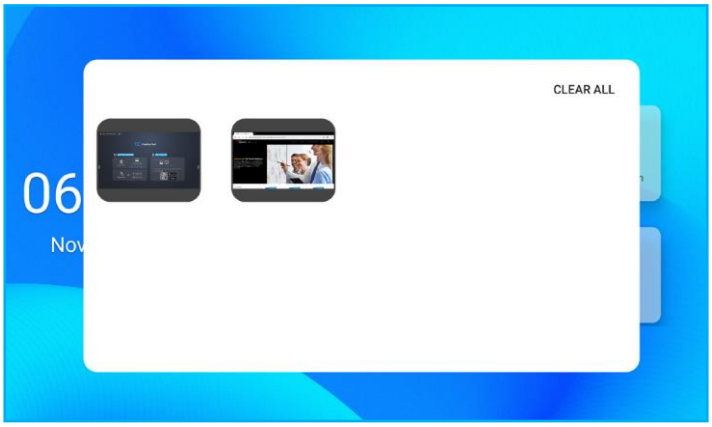
Side toolbar

- To hide the toolbar, tap **>** or **<**.
- To return to the previous screen, tap .
- To return to Home screen, tap .
- To view recent or open tasks and apps, tap . For more information, refer to “Viewing Recent Tasks” on page 58.
- To view the OSD menu, tap . For more information, refer to *“OSD Menu” on page 35*.
- To open **Creative Board**, tap . For more information, refer to “Creative Board App” on page 58.
- To open the apps screen, tap .
- To open the annotation app, tap . For more information, refer to “Annotation App” on page 66.
- To open an online classroom, tap . For more information, refer to “AirClass” on page 67.
- To open the screen recording tool, tap . For more information, refer to “Screen record” on page 37.
- To open the screen capture tool, tap . 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 73.
- To open more tools, such as **Freeze**, **Stopwatch**, **Timer**, **Spotlight**, **ScreenLock**, **Calculator**, or **SplitScreen**, tap .

BASIC OPERATIONS

Viewing Recent Tasks

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



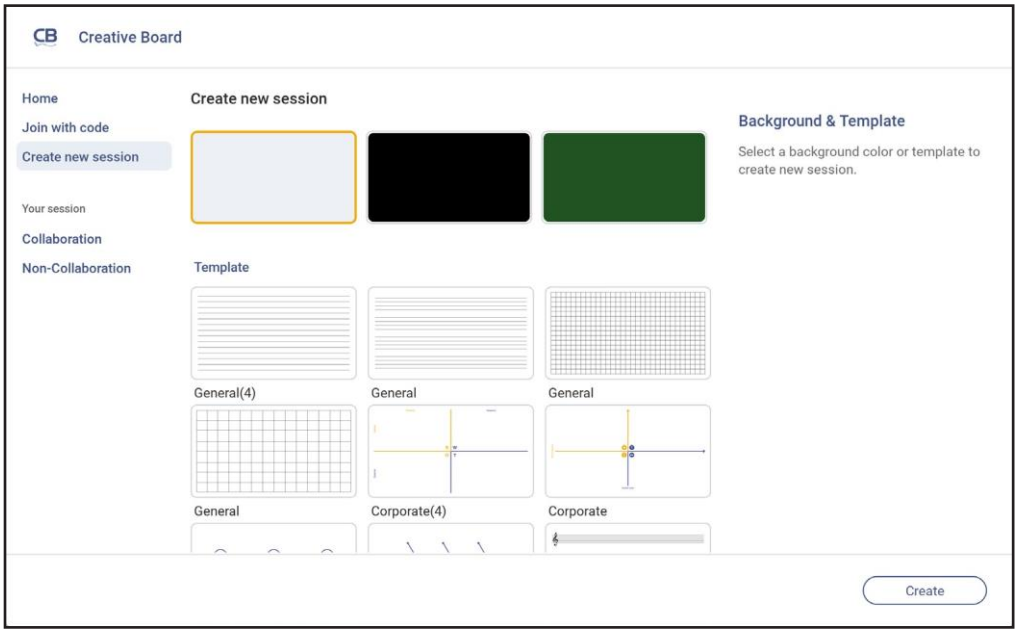
- Tap on the app you want to launch.
- To close the app, swipe the app window to the left or to the right.
- To clear the list, tap ***CLEAR ALL***.

  Note: *You can also view recently used apps in floating annotation toolbar. Refer to "Floating Annotation Toolbar" on page 77.*

Creative Board App

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

Tap **>** ⇒ to open the **Creative Board**.



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* ***Creative Board*** *first.*

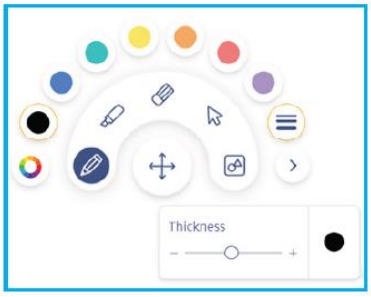
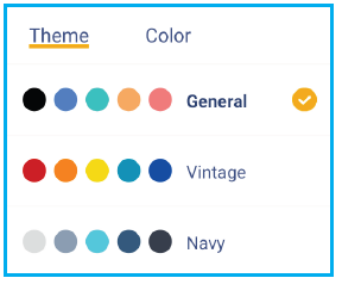
   - To open a recent session, tap on the ***Home*** tab and under Recent category tap on the session you want to continue.

   - 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.

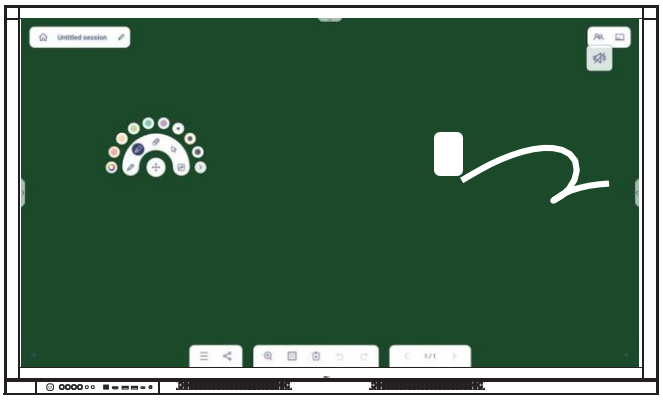
BASIC OPERATIONS

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

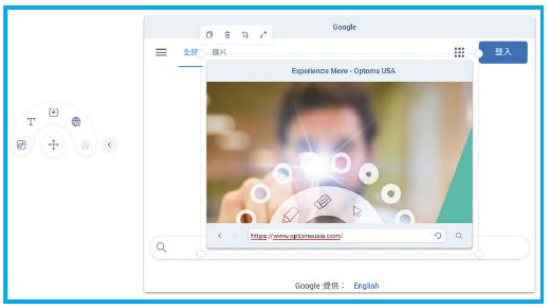
Note: *The floating board is home to many of the primary features found in the* ***Creative Board*** *app, which are detailed here.*

Item		Description
	Move the floating board	Tap and drag or long-tap on the screen to move the floating board to your preferred location on the screen.
	Minimize the floating board	Tap on the icon to minimize the floating board. Tap to expand the floating board.
/	Pen	Write or draw a freeform line. Tap to select the desired line color and thickness.  - Tap to modify the color palette. You can select five palette colors based on the theme or select them individually.  **IMPORTANT!** *Avoid damaging the virtual whiteboard. For writing and drawing, use ONLY the supplied touch pen or your fingers.* **Note:** • *Touch pen is supplied with thin tip and thick tip.* ***Creative Board*** *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".*

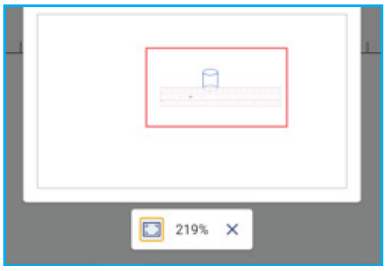
BASIC OPERATIONS

Item		Description
	Eraser	Erase areas of your written texts or drawings. Select the eraser size and drag your fingers over the area you want to remove. **Note:** *You can also use the palm of your hand to erase the item on the whiteboard.* 
	Select	Select an object on the whiteboard. Tap any of the following to alter the selected area: • (boundary point) to enlarge or shrink. • to change the color. • to duplicate. • to delete. • to recognize text or image. • to rotate.

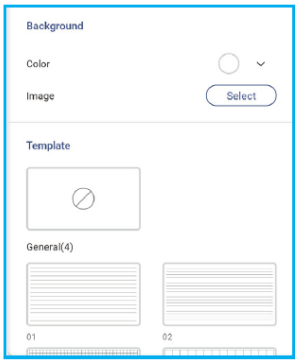
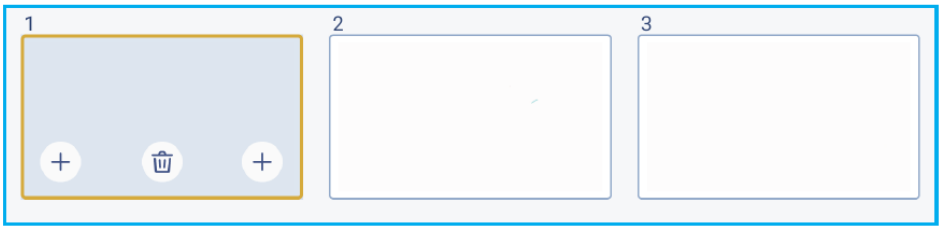
BASIC OPERATIONS

Item		Description
	Geometric shape	Draw a geometric shape. Tap to select the desired 2D, 3D shape with several color options, use a ruler to measure distances and draw lines, or use a protractor to measure and draw angles.
	More tools	Tap any of the following tools: • text editor for inputting and formatting text. • import JPG, PNG, or PDF files from different storage devices, including internal storage, USB storage, or cloud drive. • embed a fully functional web browser window. You can capture screenshots, resize, relocate, duplicate, and delete the browser window.  • embed a document camera.
	Add a page.	

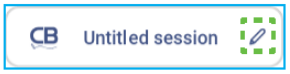
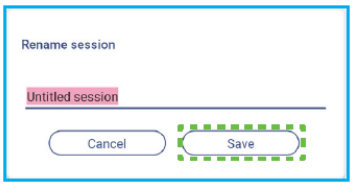
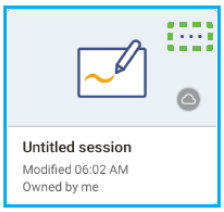
BASIC OPERATIONS

Item		Description
	Menu	Tap any of the following options: • ***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 enable or disable auto saving for non-collaboration session, eye protection writing mode, customize floating board, and update software. • ***Tutorial*** to read the **Creative Board** app tutorial.
	Share	Tap any of the following to share the file to other devices: • ***QR Code*** to share the file with QR code. **Note:** *Before scanning the QR code to download the file, make sure the IFP and your mobile device are connected to the same Wi-Fi network.* • ***Email*** to send the file by email. **Note:** *If you want to send the file by email for the first time, you are prompted to configure email settings first. For more information, refer to page 48.*
	Zoom	Zoom in or zoom out on the screen. Then tap to open the zoom window. Move the red box to the area that you want to show on the screen.  Tap to close the zoom window.

BASIC OPERATIONS

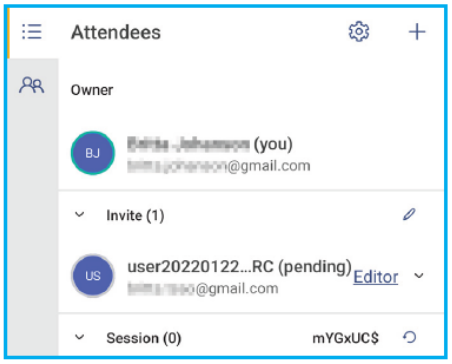
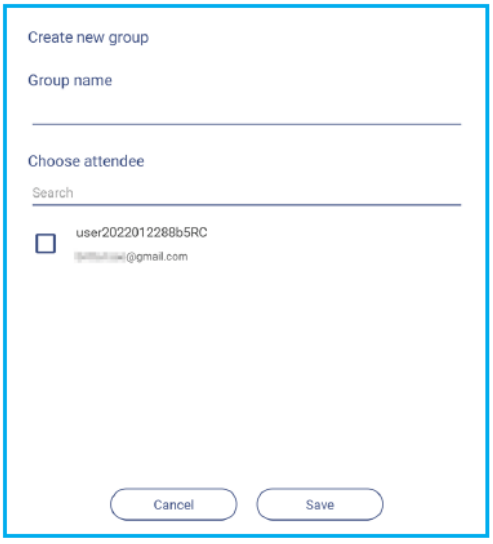
Item		Description
	Background options	Select a background or template for your content. Tap ***Select***. Then select your image from the **File Manager** or from the browser and set as a template for your session. 
	Delete a page	Delete all items/objects you draw in current page.
	Undo	Undo your last action.
	Redo	Redo your last action.
	Page manager	View and manage all pages that are involved in the current session. Tap any of the following: • to open the previous or next page. • Page number, for example ***2/3*** to open the page manager:  Tap + on the left side to add a page to the left or on the right side to add a page to the right. Tap to delete the selected page.

BASIC OPERATIONS

<table>
<tr><th colspan="2">Item</th><th>Description</th></tr>
<tr><td></td><td>Session name</td><td>The default session name is “Untitled session”.
 
To rename the session, tap and type in a new name at the prompt. Then tap Save.
 
Note:
You can also rename the session on the Creative Board Home tab. Select the session and then tap ••• ⇒ Rename. Tap Save at the prompt to save the modifications.
  If the session is marked with the icon then it means it is an active collaboration session and if the icon is then it means it is a inactive collaboration session. All other sessions are non-collaboration sessions. To access collaboration sessions, make sure to be logged in to Creative Board.</td></tr>
<tr><td></td><td>Sign in</td><td>Sign in to Creative Board with your Creative Board account or with your Google account to create collaboration sessions.

When signed in, tap to view account settings or tap to log out.</td></tr>
</table>

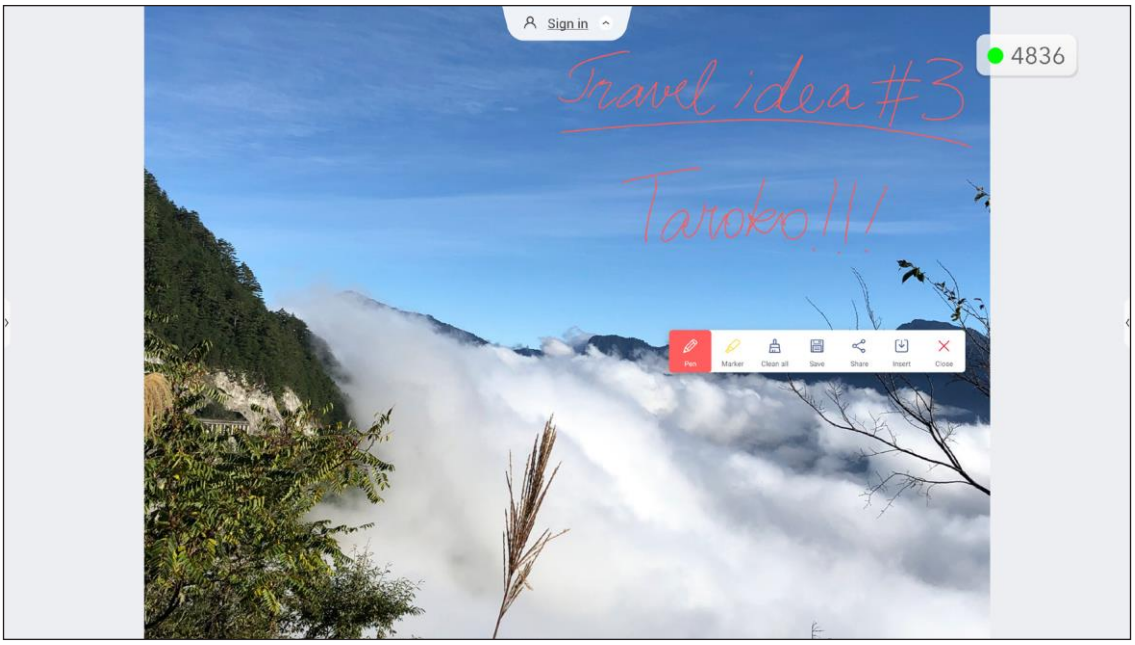
BASIC OPERATIONS

Item		Description
	Attendees management	Invite attendees to join the Google Classroom through the **Creative Board**. On the Attendees tab , tap + and then select any of the following options:  • Through the Google Classroom • By sending an email invitation with the session password • By sending a session code. On the Attendees tab you can assign a role to the attendee (either viewer or editor), delete (⇒) attendees, renew ( ) the session code, and configure ( ) attendee settings. Tap to access the Group tab. Then tap + and enter the group information, such as group name and attendees. Tap ***Save***.  To modify group settings, tap .
	Google Classroom management	View the Google Classroom that is related to your sign in account. Tap to change to another classroom or tap to post session link to Google Classroom.

BASIC OPERATIONS

Annotation App

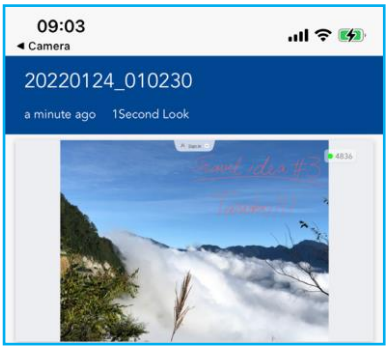
Tap **>** ⇒ to open the annotation app.



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.*
- To erase all annotations on the screen, tap .
  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.

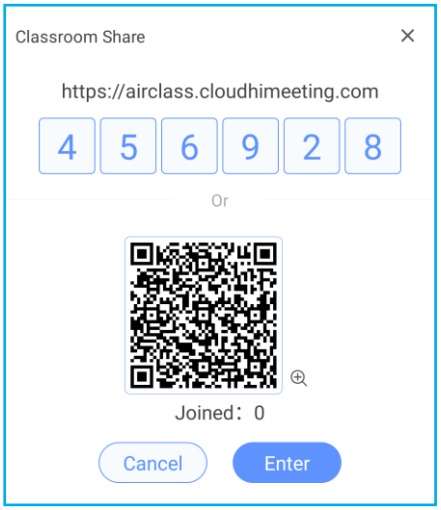


- To exit the annotation mode, tap .

BASIC OPERATIONS

AirClass

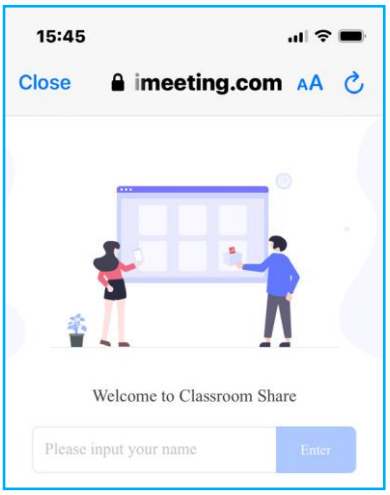
Tap **>** ⇒ 1+2 to open **AirClass**. The online classroom access code and URL will be displayed on the screen.



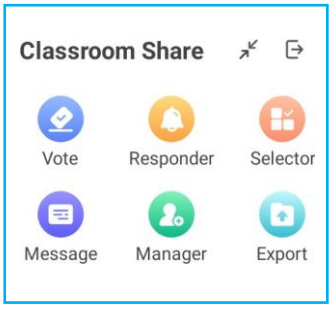
To join the virtual classroom remotely, complete the following steps:

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

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



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

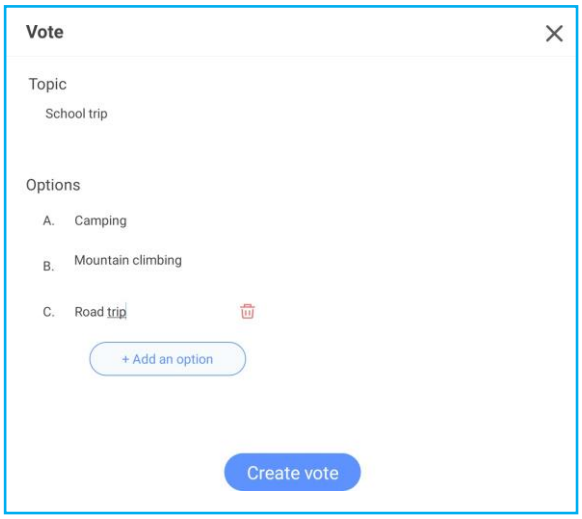


BASIC OPERATIONS

Tap any of the following on the Classroom Share screen:

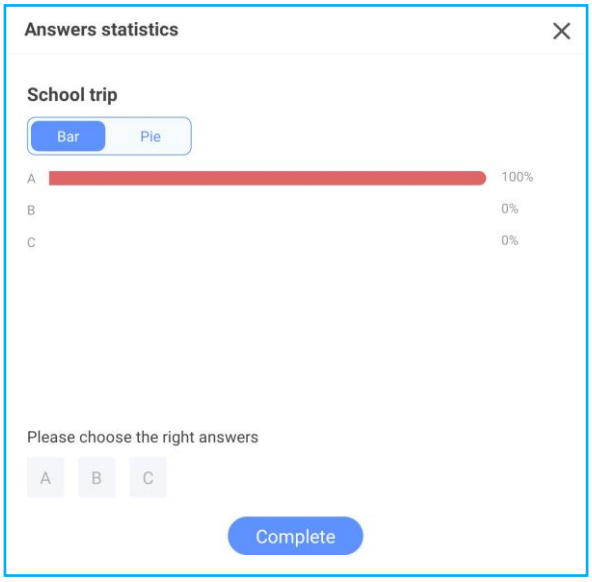
a. Vote

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 ***Begin*** to start answering the question.
5. The participant can respond by selecting the answer on the mobile device screen and tapping ***OK***.

6. 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.
7. Tap the right answer(s) (if necessary) on the Answers statistics screen and then tap ***Complete***.

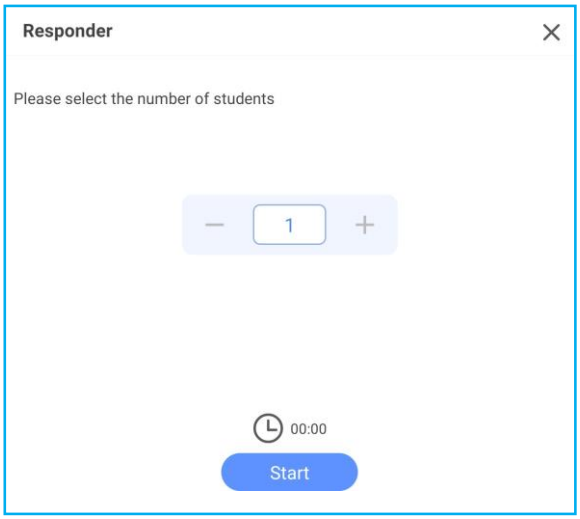


Note: *To export the voting result, tap **Export** on the Classroom Share screen. The result is saved as XLS file to the Storage/ClassroomShare folder.*

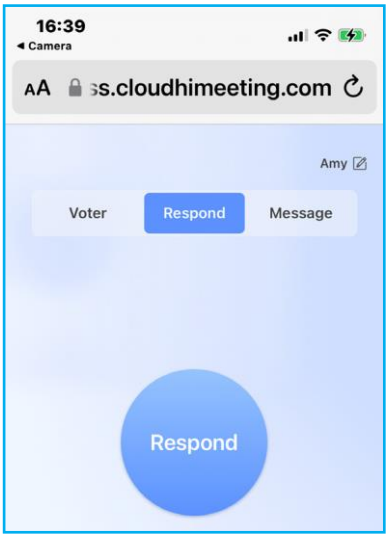
- Tap ***Reset*** to start a new voting activity.
- Tap X to close the Answer statistics page.

b. Responder

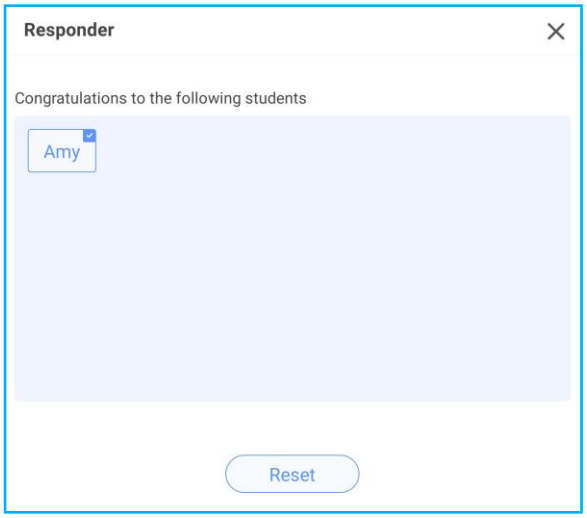
1. Tap ***Responder*** to enter the responder mode.
2. Select the number of participants. Then tap ***Start*** to start the answering mode.



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

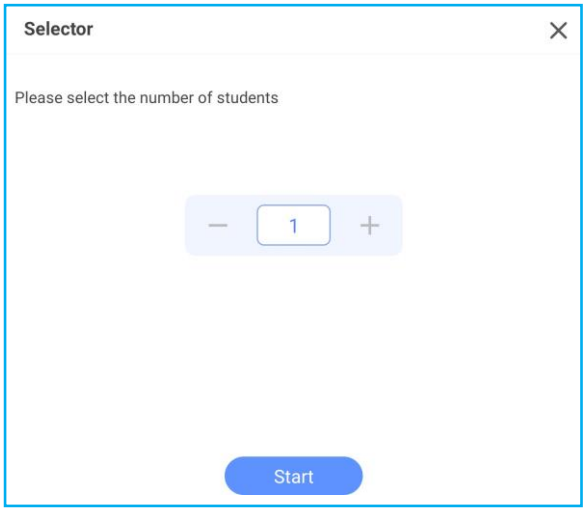


4. To close the answering session, tap ***Finish***.
5. Tap ***Reset*** to start the answering mode again.

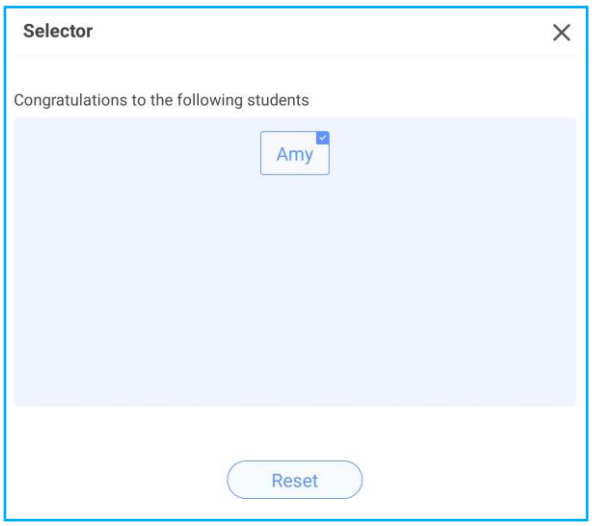


c. Selector

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).

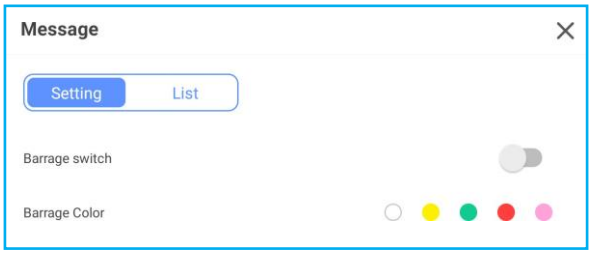


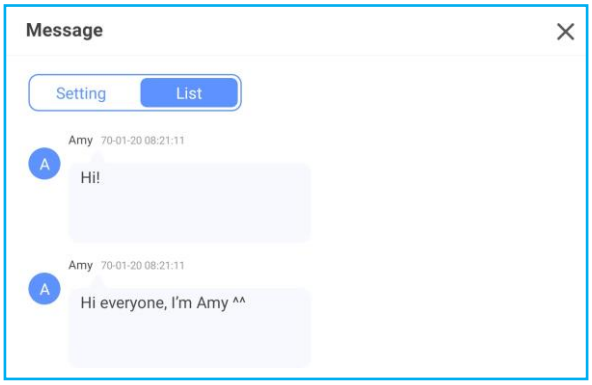
3. The name(s) of the selected participant(s) are displayed on the screen.
4. Tap ***Reset*** to select more participants.



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

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.

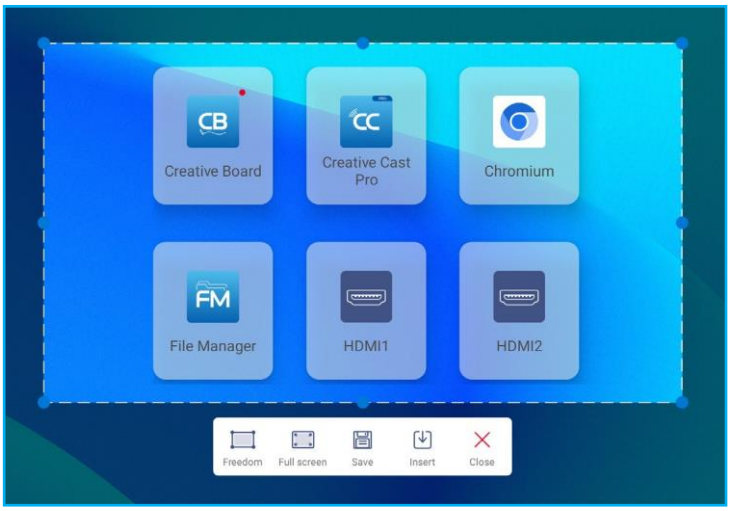
Note:

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

BASIC OPERATIONS

Screen Capture Tool

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



To capture the screen, do the following:

1. Tap either ***Freedom*** or ***Full screen*** to manually select the area or to capture the entire screen respectively.

Note: *You can also capture the full screen image by pressing the* ***Capture*** *key on the remote control.*

2. Tap ***Save*** to save the screenshot or tap ***Insert*** to insert the screenshot directly to the whiteboard session.

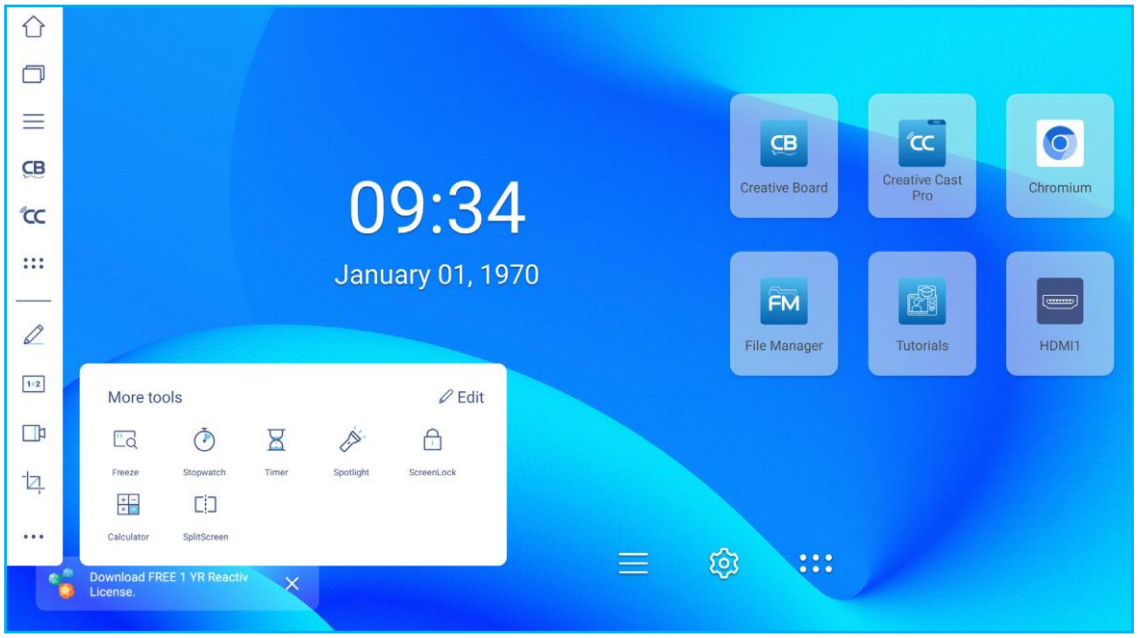
Note: *To use this feature, please start a* ***Creative Board*** *session FIRST, then use this tool to capture and then insert the screenshot to the* ***Creative Board****.*

3. Tap ***Close*** to exit the tool.

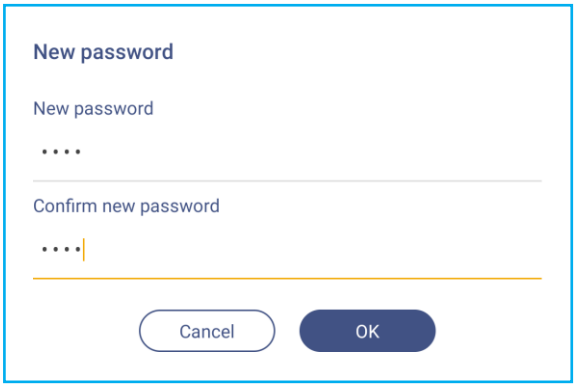
BASIC OPERATIONS

More Tools

Tap **>** ⇒ **•••** to access more tools such as **Freeze**, **Stopwatch**, **Timer**, **Spotlight**, **ScreenLock**, **Calculator**, and ***SplitScreen***.



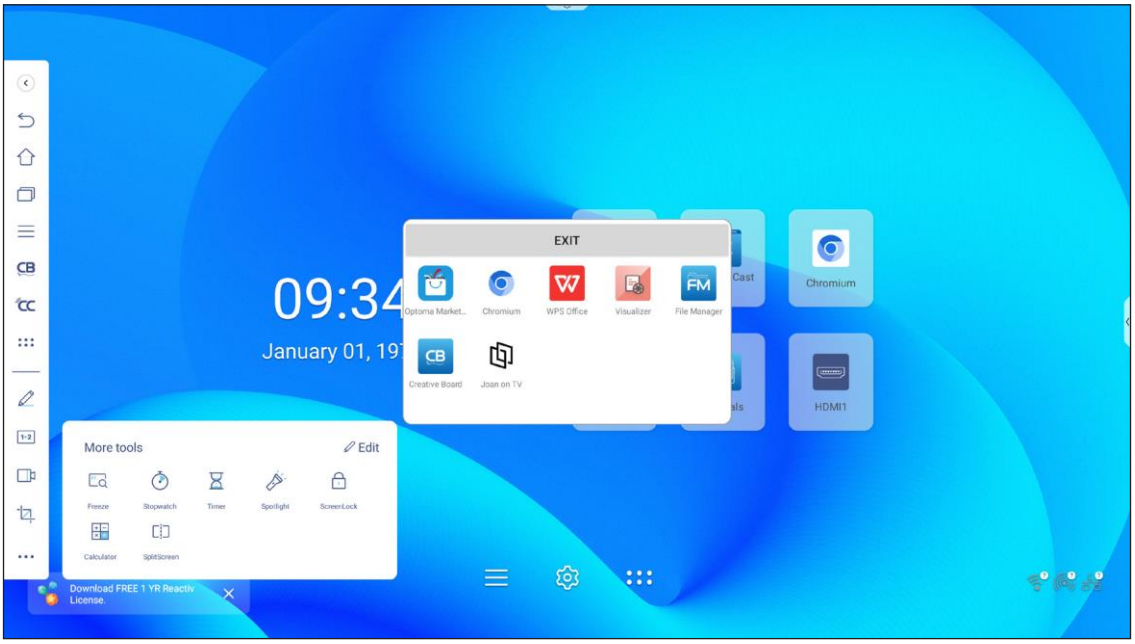
- Tap ***Freeze*** to freeze the screen. Then tap to zoom in or tap to zoom out. To restore the screen to its original size, tap . Finally, to exit the tool, tap .
- Tap to use the **Stopwatch**.
- Tap to use the **Timer**.
- Tap to activate **Spotlight**. **Spotlight** can be used to direct the audience's focus to a specific part of the board.
- Tap to lock the screen. If the screen lock password is not set, you are prompted to set the password. Type in a password in the New password field and confirm the password in the Confirm new password field. Then tap ***OK*** to save the password.



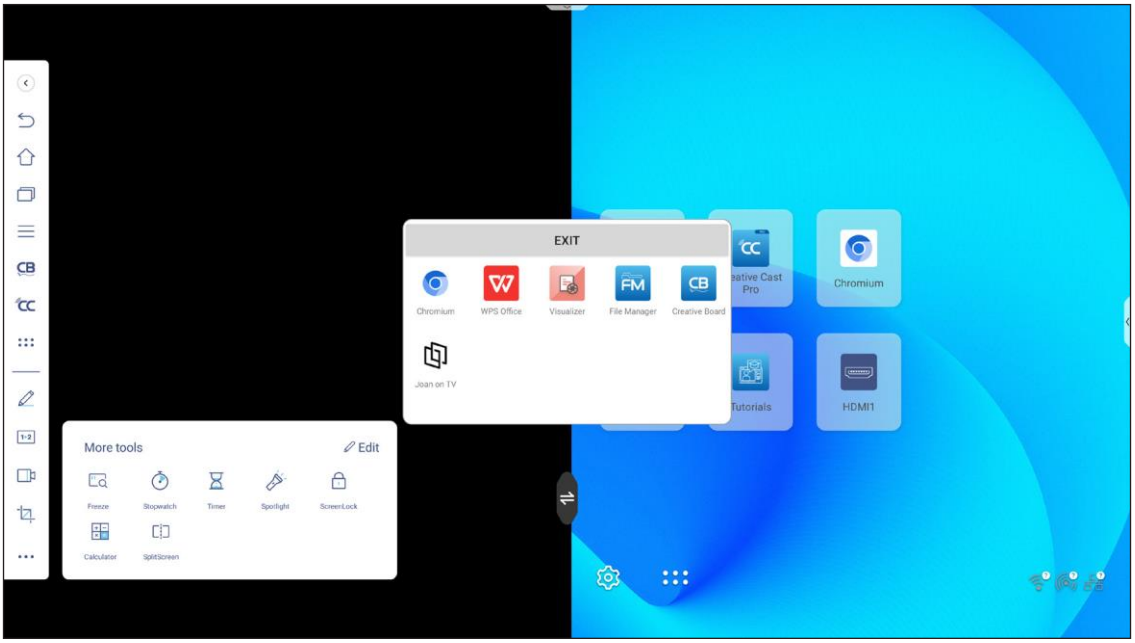
- Tap to use the **Calculator**.

BASIC OPERATIONS

- Tap ***SplitScreen*** to enable split mode.



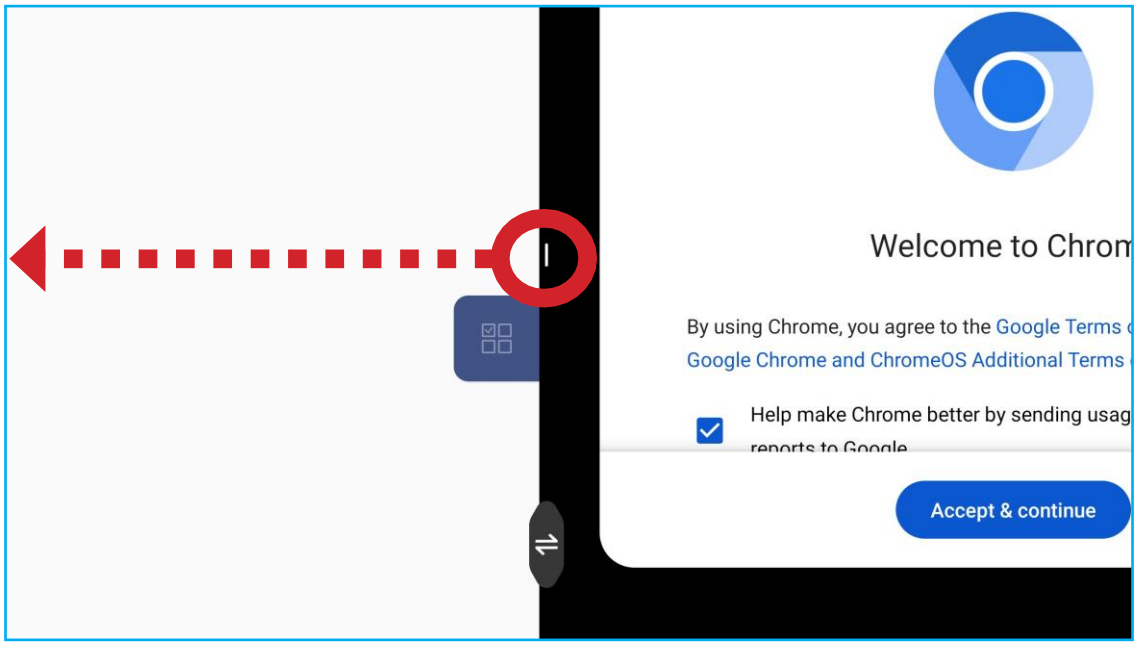
Next select two apps to display on the screen side by side.



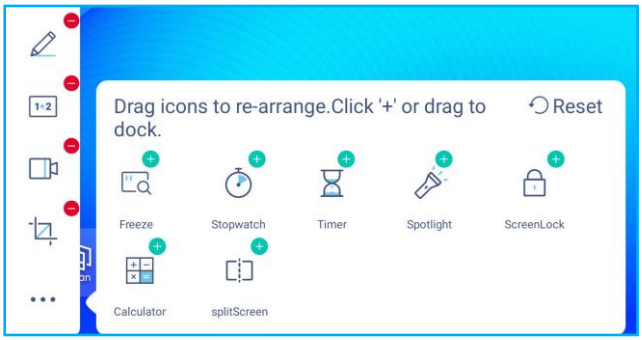
BASIC OPERATIONS

While using the split screen feature, do any of the following:

- Tap ⇄ to swap the left and right side app windows.
- To view either of the apps in a full screen mode, swipe the app over the opposite side of the screen starting at the center of the screen where is the white screen separator bar. For example, to see the **Chrome** browser in a full screen mode, swipe it to the left starting from the center of the screen as illustrated below.



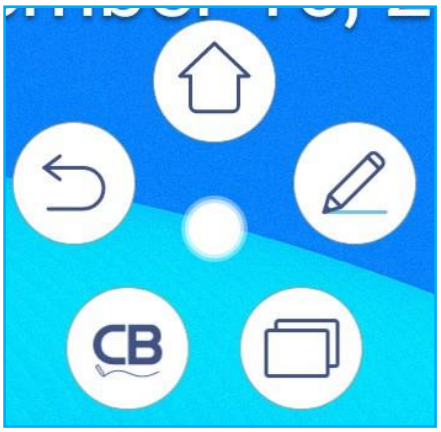
- To customize More tools icons in the side toolbar, tap **>** ⇒ ••• ⇒ ***Edit***. Then tap ⊖ next to the icon you want to remove from the side toolbar and tap ⊕ next to the icon you want to add to the side toolbar. You can add up to 4 icons to the side toolbar.



BASIC OPERATIONS

Floating Annotation Toolbar

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



- Tap to return to the previous screen.
- Tap to return to Home screen.
- Tap to open annotation app.
- Tap to view recent apps. Swipe the app window to the left or to the right. To close all apps, tap ***CLEAR ALL***.
- Tap to open **Creative Board**.
- Tap and drag the annotation toolbar to your preferred location on the screen.

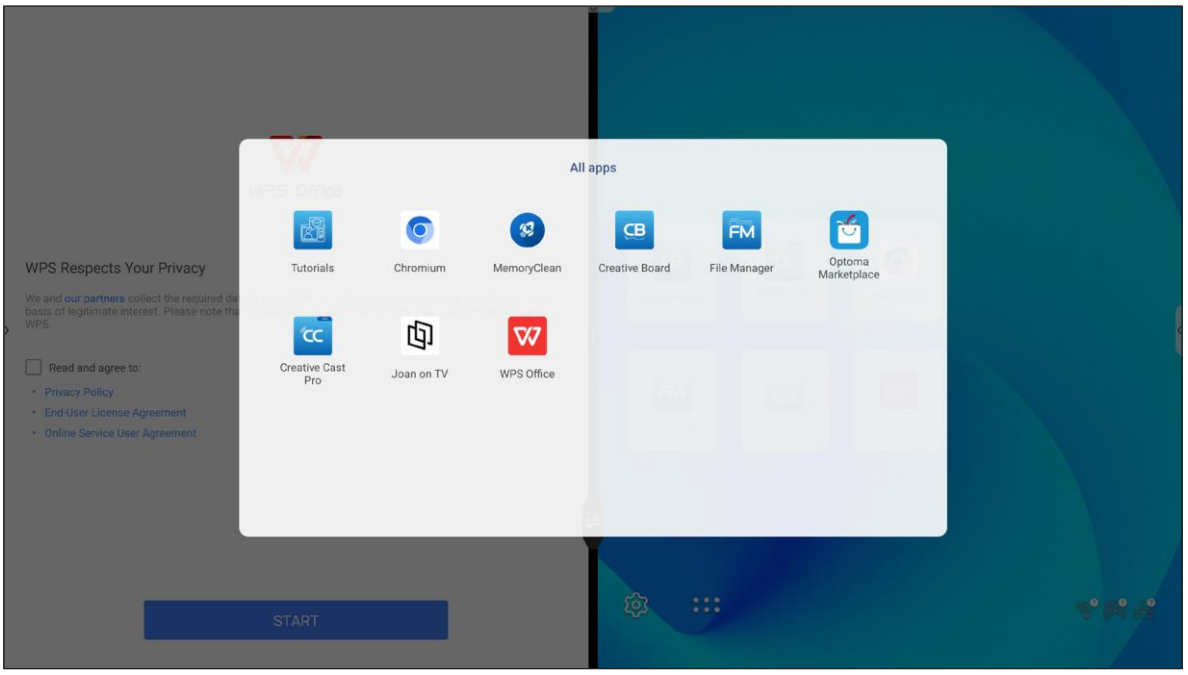
USING THE APPS

From the Home screen, tap ⋮⋮⋮ to view the Apps list.

Note: *To install a third party application, you must first enable the **Unknown source** setting in the **Security** ⇒ **Advanced Settings** menu. Refer to page 50.*

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

IMPORTANT! *The embedded Android 11 operation system is not standard Android. As such, Google Play is not available in the Apps list. The installed third party application might not work properly if it is not designed for IFP. Optoma will not guarantee that these self-installed Apps work.*
Optoma interactive flat panel displays run a customized Android operating system and do not support Google Play Services. The operating system may not be compatible with all 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

Creative Cast

Tap **Creative Cast** to start wireless sharing and projection via Wi-Fi or LAN.

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

Collavision Senders	Available Version
Windows	Windows 7, 8, 8.1, 10, 11 and above
Mac	Mac OS X 10.12 and above
iPhone	iOS 13 and above
Android	Android 7.0 and above
Chrome	Chrome Browser OS V83 and above

Proprietary Sharing

Features	Operation System
Web Sharing (Web Sender)	Chrome Browser
AirPlay Support	iOS 9 and above
ChromeCast	Android 8.0 and above

USING THE APPS

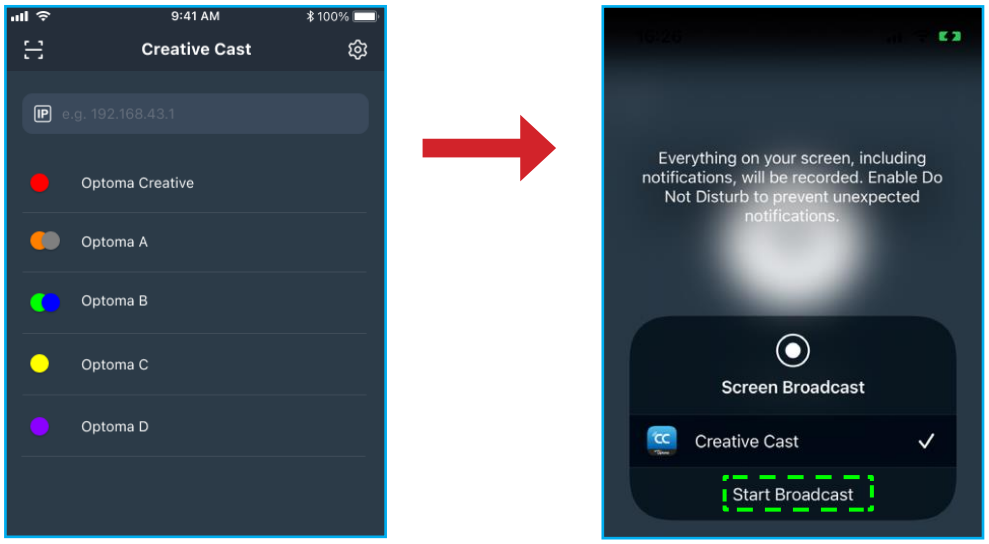
Mobile Device

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

To connect to the IFP, complete the following steps:

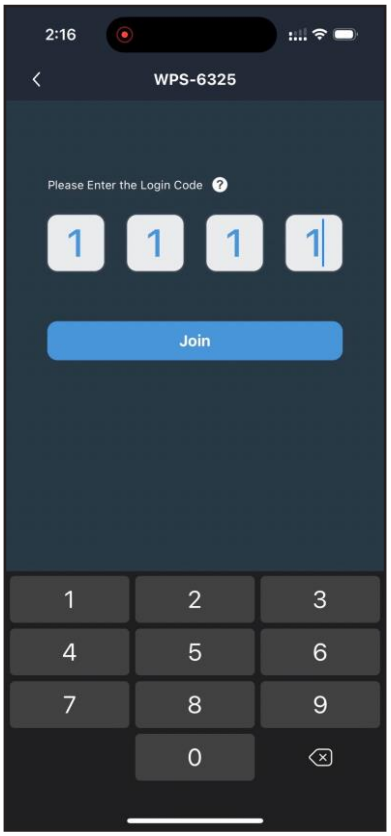
Note: *The connection steps are described based on an iOS device.*

1. Launch the **Creative Cast** app. Select the device and then tap ***Start Broadcast***.

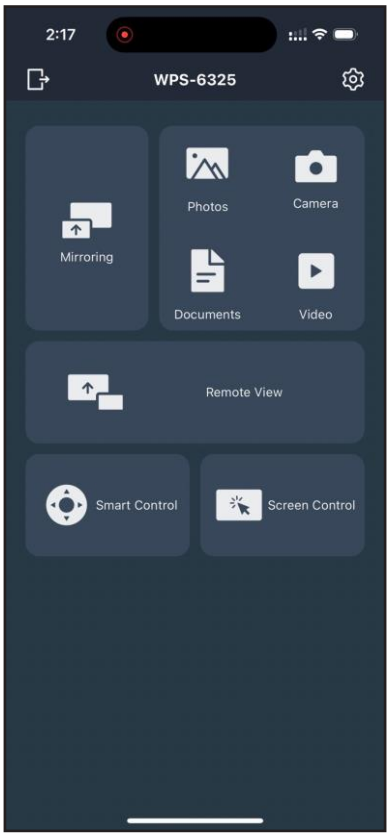


USING THE APPS

2. Enter the **Creative Cast** verification code from the launcher screen to establish the connection.

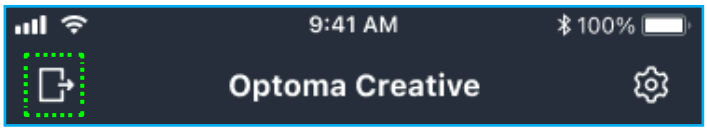


3. Tap any of the following:



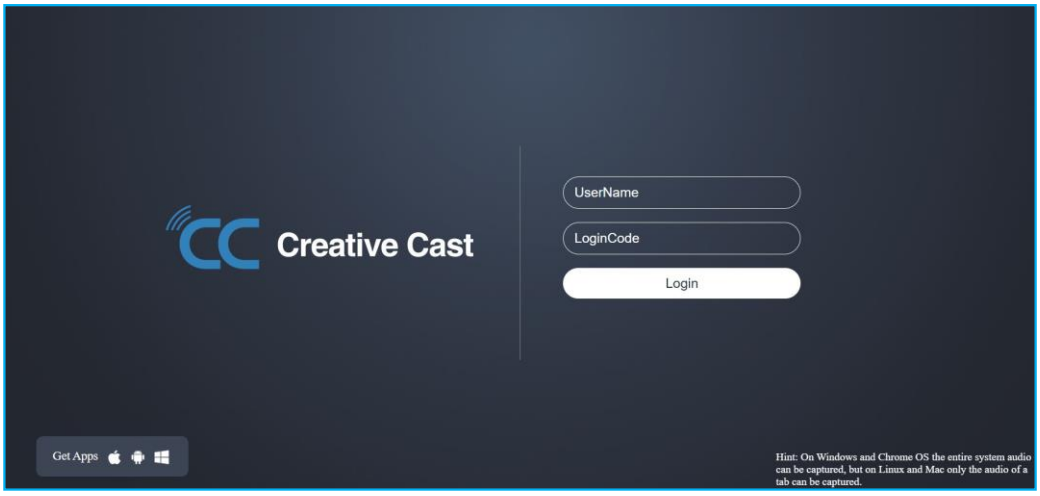
- **Mirroring** to mirror your mobile device's screen to the IFP.
- **Photo** to view and share photos.
- **Camera** to stream your mobile device's camera to the IFP.
- **Documents** to view and share documents.
- **Video** to view and share videos.
- **Remote View** to mirror the IFP screen to your mobile device with annotation and image saving feature.
- **Smart Control** to use your mobile device as a remote control to control the IFP.
- **Screen Control** to mirror the IFP screen to your mobile device. You can use your mobile device to operate the IFP.
- **Custom Menu** to customize the **Creative Cast** menu in your mobile device.
- **Settings** to modify your mobile device's user name and view the **Creative Cast** version.

4. To stop the screen broadcast, tap .

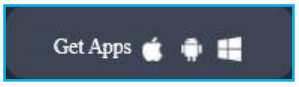


Computer

You can mirror the screen of your computer via Chrome browser or **Creative Cast**. To use either of these options, open the browser and enter to the URL field the IP address that is displayed on the launcher screen. For example, *http://10.5.13.83*.



- To download **Creative Cast**, tap on the respective operating system icon next to ***Get Apps*** link.

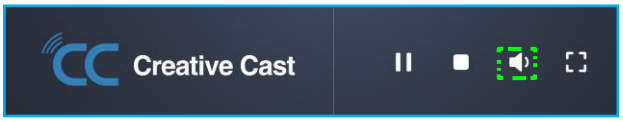


USING THE APPS

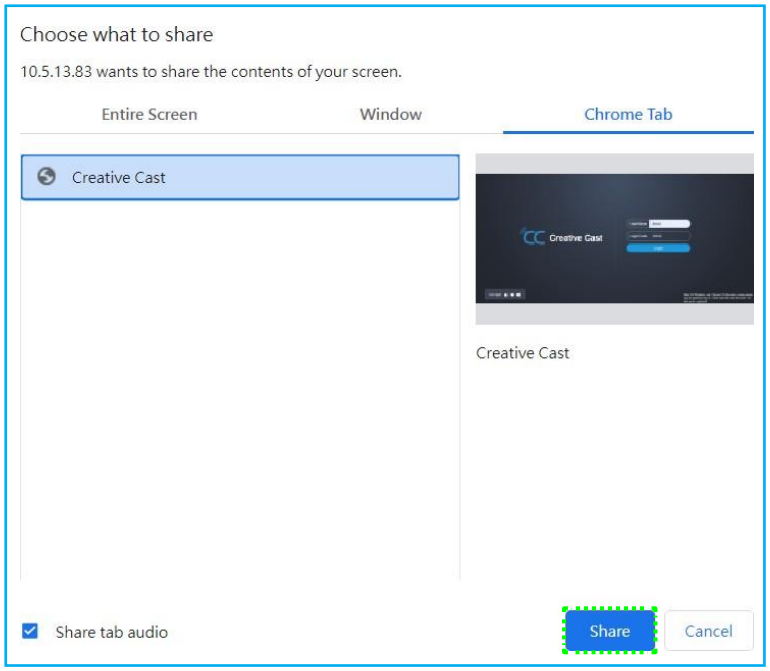
- To start screen casting from Chrome browser, enter your preferred user name (UserName), LoginCode (verification code on the launcher screen) and tap ***Login***. Select what you want to share and then click ***Share***.

  Note:

  - *If you want to share audio during screen casting, tap* on the launcher screen.

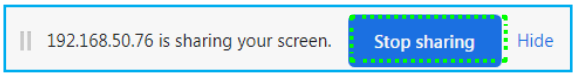


  - *The user name that you enter for screen casting will also be used in Moderation mode.*

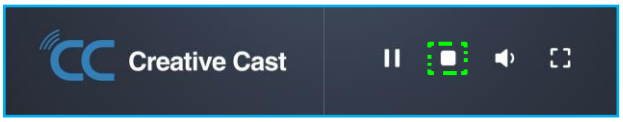


To stop sharing, do either of the following:

- Click ***Stop sharing*** on your browser or



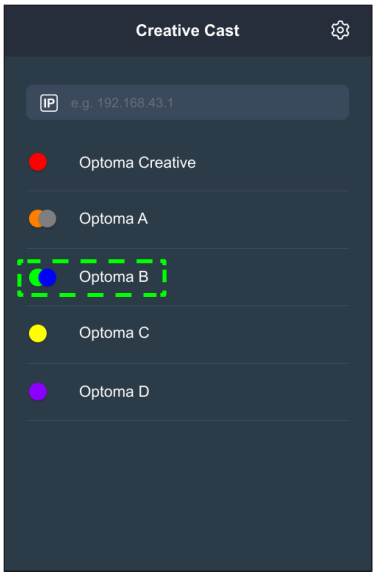
- Click on the launcher screen.



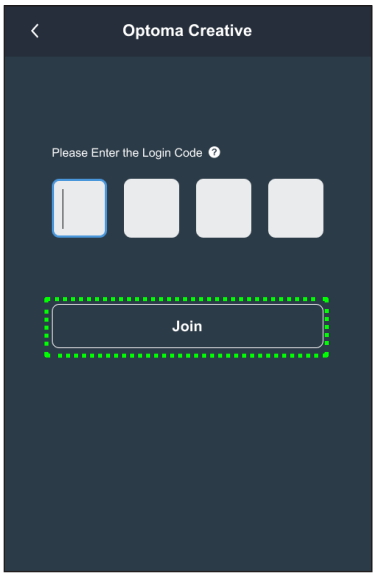
USING THE APPS

To start screen casting from desktop app, download **Creative Cast** to your computer.

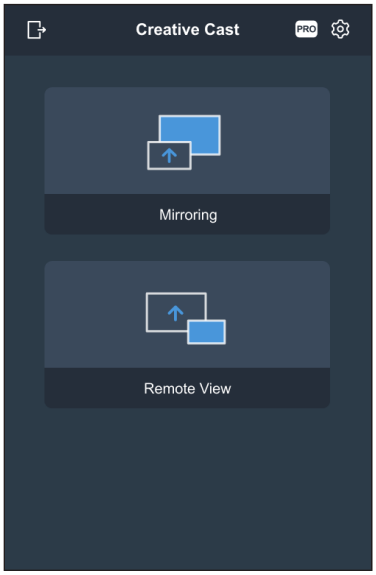
1. Launch the app and click on the device name.
   - If the IFP is not visible in the Room List, input the IFP's IP address manually to the Input IP address field. Press ***Enter*** to start searching for the device.



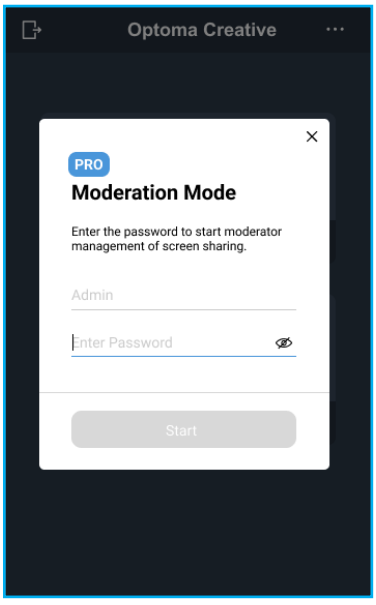
2. Enter the login code from the launcher screen and tap ***Join***.



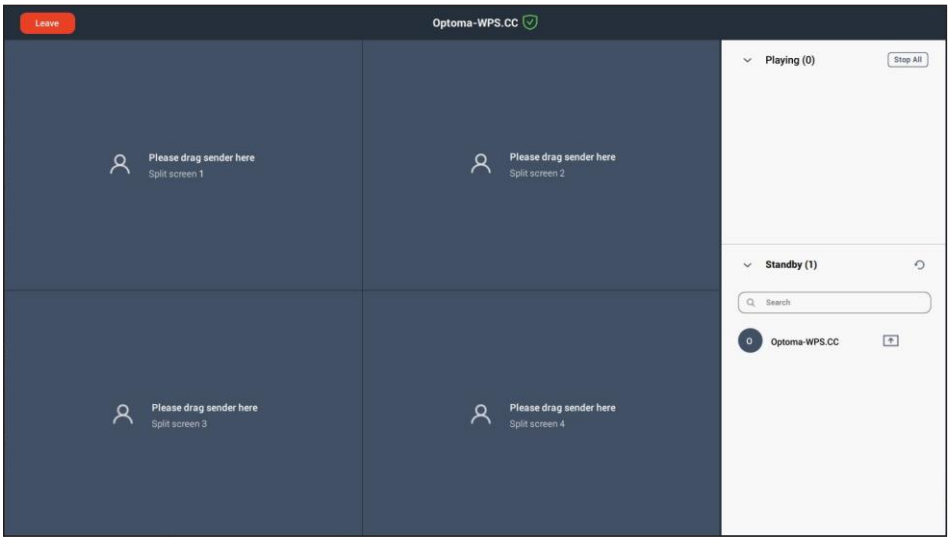
3. Click any of the following:



- **Mirroring** to mirror your computer's screen to the IFP.
- **Remote View** to mirror the IFP screen to your computer with annotation and image saving feature.
- **PRO (Moderation Mode)** to select up to 4 screens to display on the IFP. Enter the password and click ***Start***.
  Note: *To modify the password, refer to "Creative Cast Settings" on page 86.*



Select the screens to display.

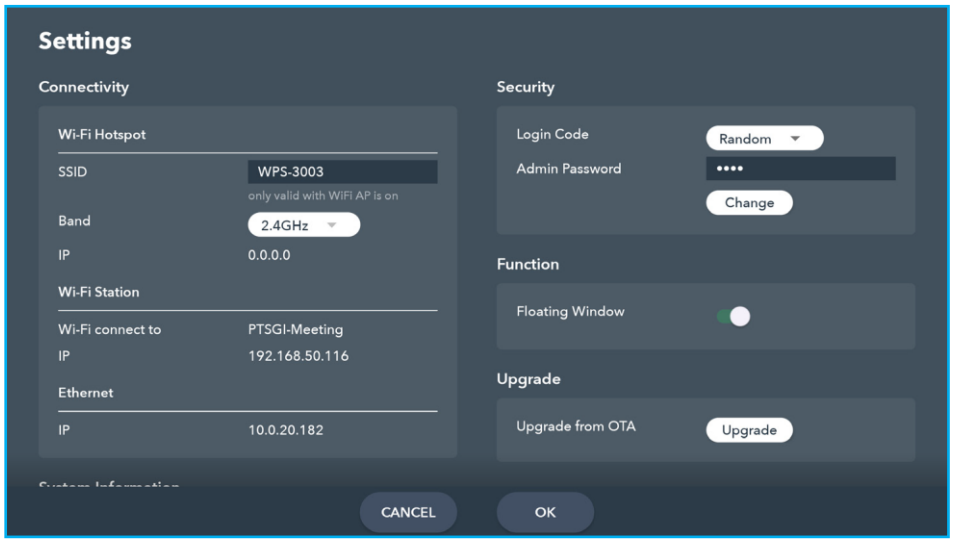


4. To exit the moderation mode, tap ***Leave*** Leave.

Creative Cast Settings

Tap ☰ and then tap on any of the following icons to configure the **Creative Cast** launcher screen settings:

- **Grouping** to share the screen to other devices.
- **Settings** to manage connection settings, view **Creative Cast** version and upgrade software, configure login code settings, set the administrator password for the Moderator user, and enable or disable floating window feature.



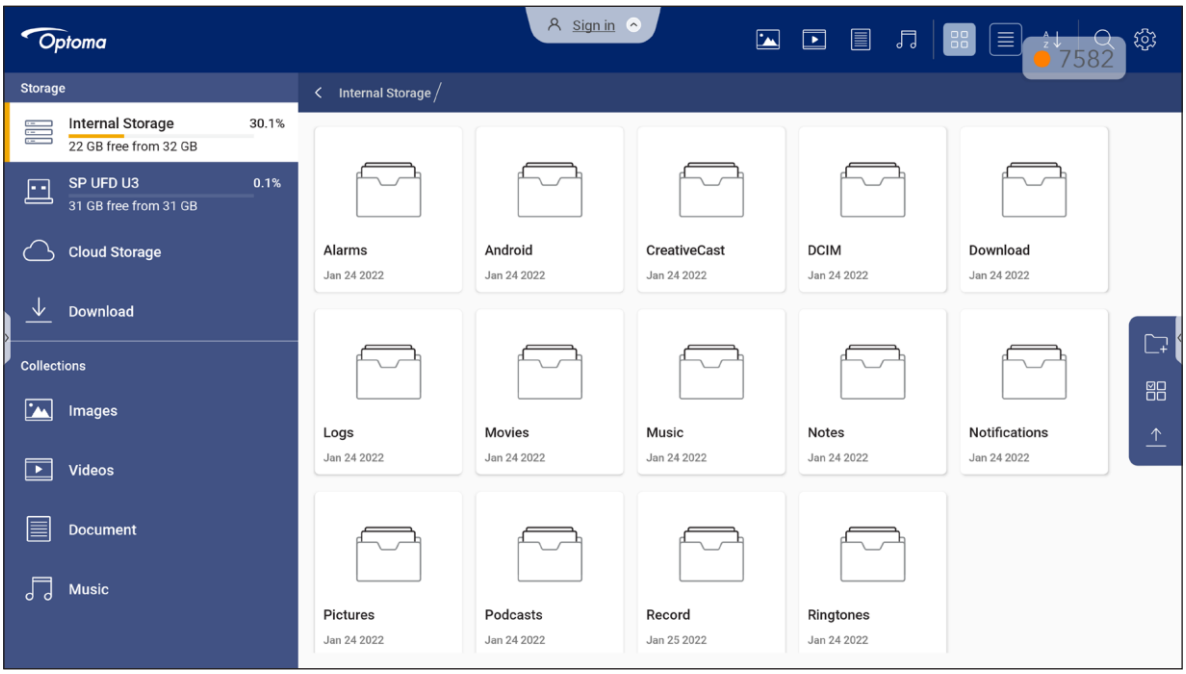
- **Minimize** the menu bar.

USING THE APPS

File Manager

Tap **File Manager** to manage files and folders.

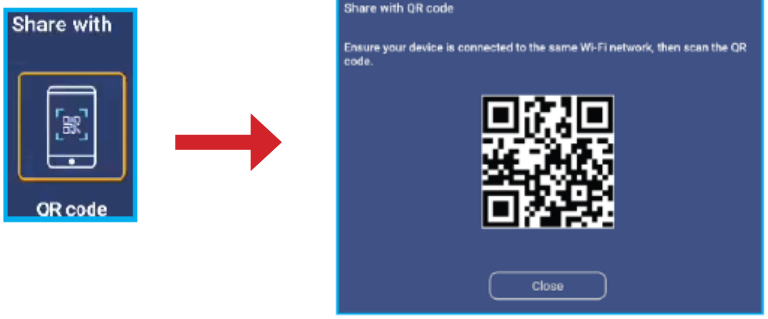
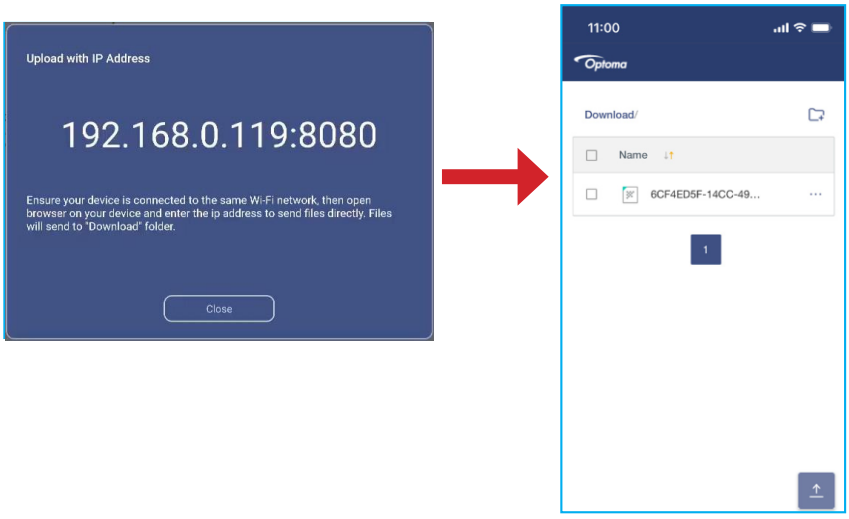
Managing Files



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.

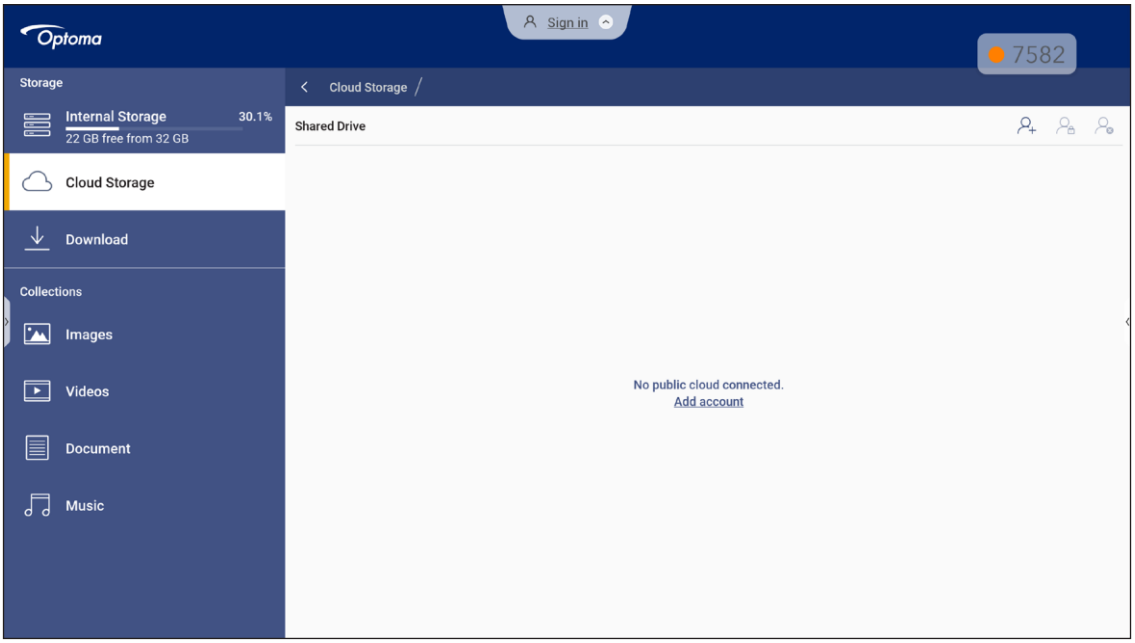
USING THE APPS

Item		Description
	Select	Select files and folders. When selected, tap any of the following: • undo your last action. • check/uncheck all items. • cut and paste item(s). • copy and paste item(s). • delete item(s). • rename an item. • share an item with QR code. **Note:** *For file sharing with QR code, make sure your mobile device is connected to the same network as the IFP.*  • compress item(s). • move/copy item(s) to another location or view item details.
	Share item(s)	Share item(s) between the IFP and your mobile device over web browser.  **Note:** • *By default, all items that you upload to the IFP are saved to the **Download** folder.* • *For item(s) upload, make sure your mobile device is connected to the same network as the IFP.*

USING THE APPS

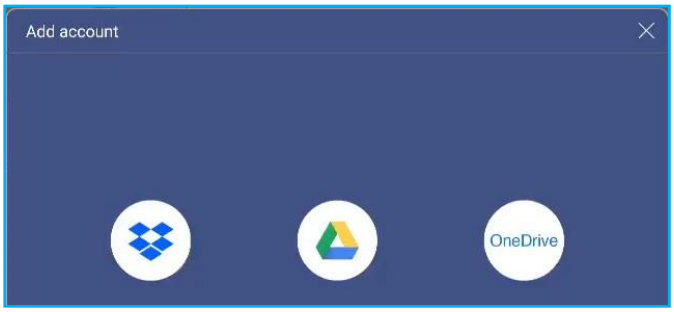
Cloud Storage

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

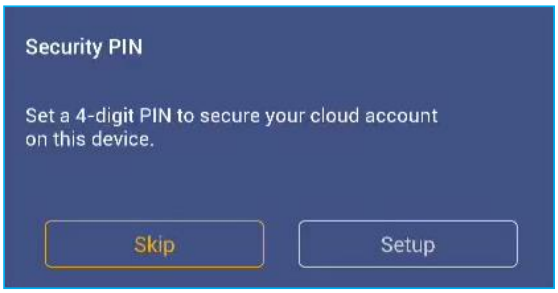


To create an account:

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

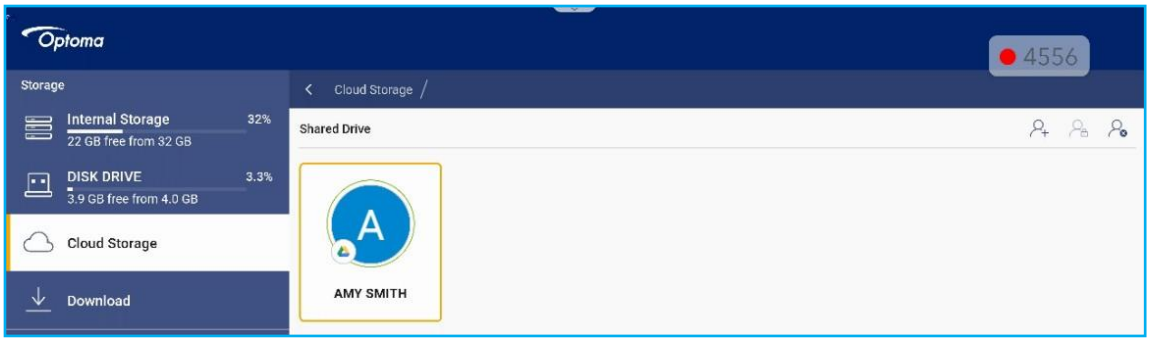


3. Follow on-screen instructions to create an account or sign in to your existing account.
4. After successful login, you are prompted to set a security PIN. Tap ***Setup*** to set the PIN or ***Skip*** to skip this step.



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.*

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



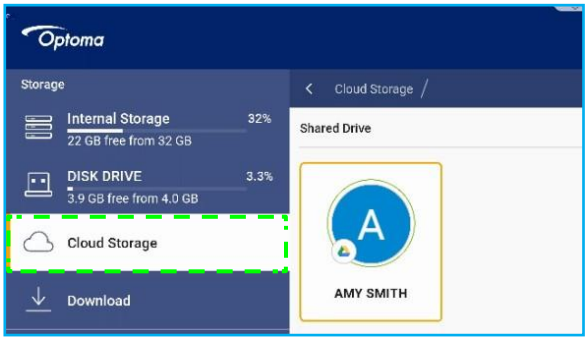
5. To manage your cloud storage account(s) in the **File Manager**, tap any of the following:
   - to add another cloud storage account.
   - to lock the cloud storage account.
   - to delete the cloud storage account.

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

Setting a 4-digit PIN

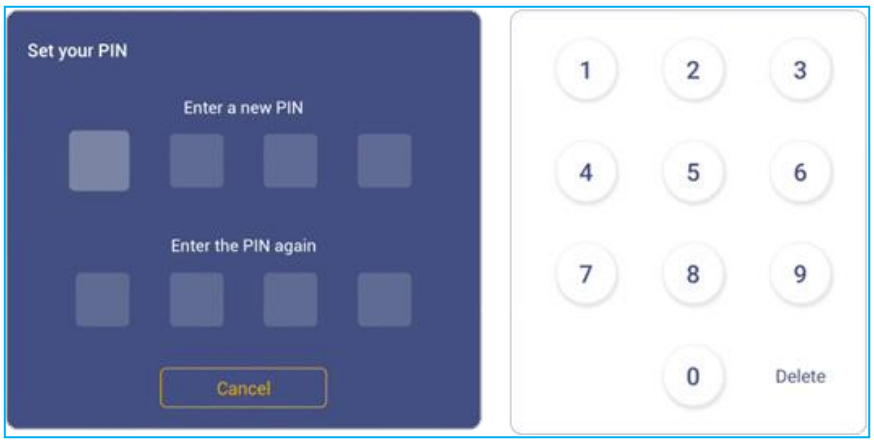
If you skipped setting a 4-digit PIN during the initial cloud storage setup, then do the following:

1. Open **File Manager** and tap on **Cloud Accounts** on the left side.

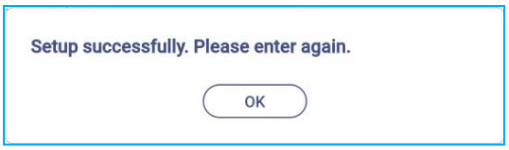


2. Next, tap on the desired cloud account you wish to configure a PIN for.
3. On the right side of the screen, tap to set up a PIN to protect your cloud account from unauthorized access.

4. Enter a PIN code (4-digit number) in the *Enter a new PIN* field, then re-enter the same 4-digit PIN in the *Enter the PIN again* field to verify your new PIN.



5. Your new PIN has now been set up. Tap **OK** to finish!



USING THE APPS

Playing Multimedia Files

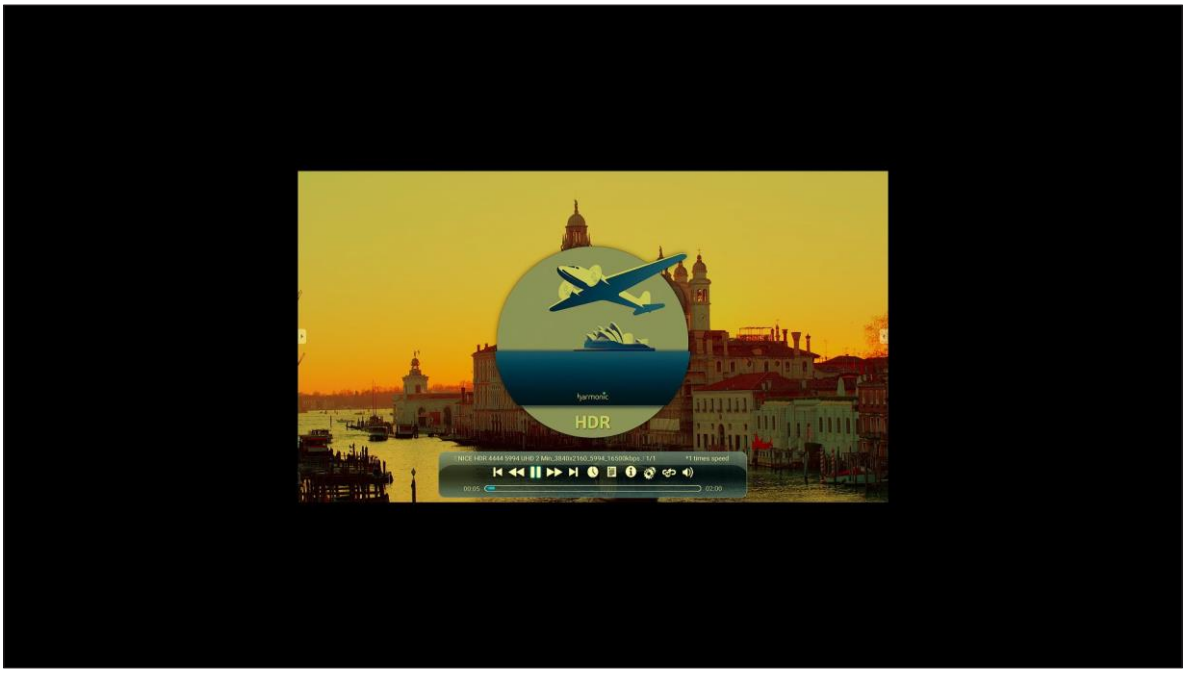
Multimedia formats supported

Media Type	Supported Format
Video	Video support format (codec) up to 4K resolution: • .avi (MPEG-1, MPEG-2 MP@HL, MPEG-4 SP@L0-3, ASP@L0-5, H.264, MP, HP@Level 4.1,H263, VP6, MJPEG) • .ts (MPEG-2 MP@HL, MPEG-4 SP@L0-3,ASP@L0-5, H.264 MP, HP@Level 4.1, VC1 AP, H265) • .mpg, .mpeg (MPEG-1, MPEG-2 MP@HL, H.264 MP, HP@Level 4.1) • .mp4 (MPEG-4 SP@L0-3, ASP@L0-5, H.264 MP, HP@Level 4.1, H265) • .mov (MPEG-4 SP@L0-3, ASP@L0-5, MJPEG, H.264 MP, HP@Level 4.1, H265) • .mkv (VP9, H.265) • 3gp (H.264 MP, HP@Level 4.1, H263, MPEG-4 SP@L0-3, ASP@L0-5)
Audio	Audio support format (codec): • .wma (WMA/WMAPro: 128Kbps~320Kbps, 8KHz~48KHz sampling rate) • .mp3 (MPEG Layer 3: 32Kbps~320Kbps, 32KHz~48KHz sampling rate) • .wav (PCM: Max 320Kbps, Max 48kHz sampling rate / ADPCM: 384Kbps, 8KHz ~ 48Khz sampling rate) • .m4a (ACC: 24kbps ~ 384kbps, 16KHz~48KHz sampling rate) • .ogg (Vorbis: Max 320Kbps, 8KHz~48KHz sampling rate)
Image	Supported image format (with the maximum resolution): • .png(8k*8k) • .jpeg(baseline 8k*8k progressive 4k*4k/.bmp(8k*8k) • .gif(4k*4k)

Playing videos

Select the video you want play and tap ▶ to start the playback.

USING THE APPS



During video playback, you can do the following:

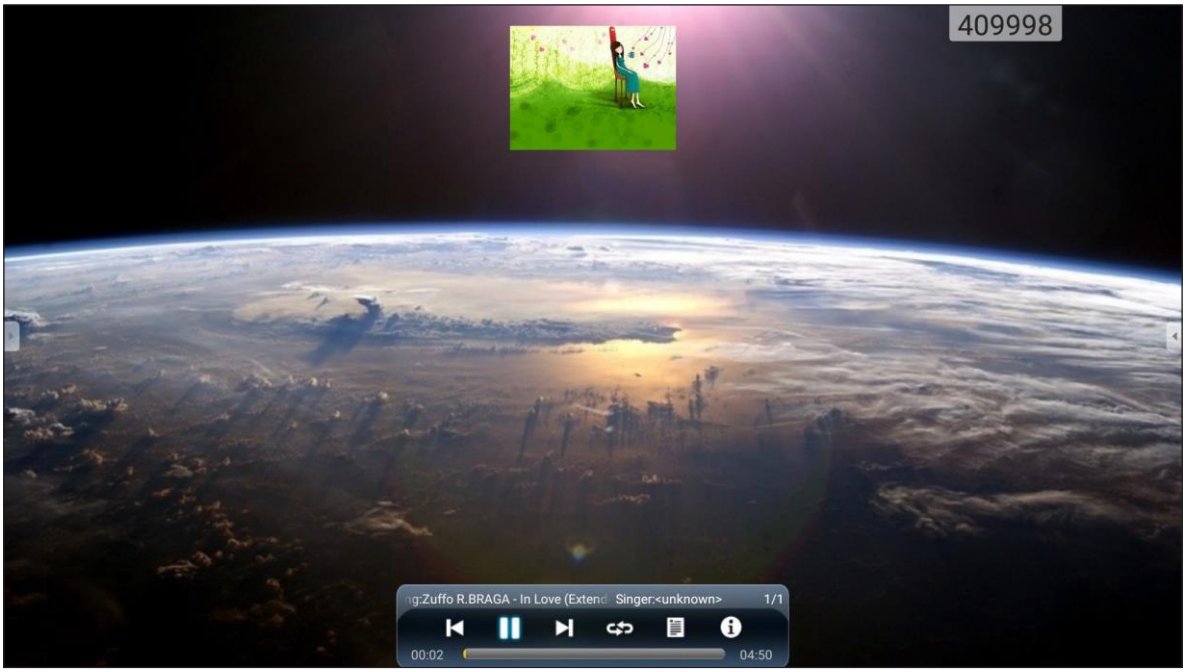
Item		Description
	Replay	Play the video in reverse
	Previous video	Skip to the previous video
	Speed up	Speed up the video
	Pause	Pause the playback. To resume, tap
	Information	Show video details

Note: *To return to the file manager, open the side toolbar and tap , press the **Return** key on the remote control, or press the key on the control panel.*

USING THE APPS

Playing music

Select the song you want play and tap ▷ to start the playback.



During music playback, you can do the following:

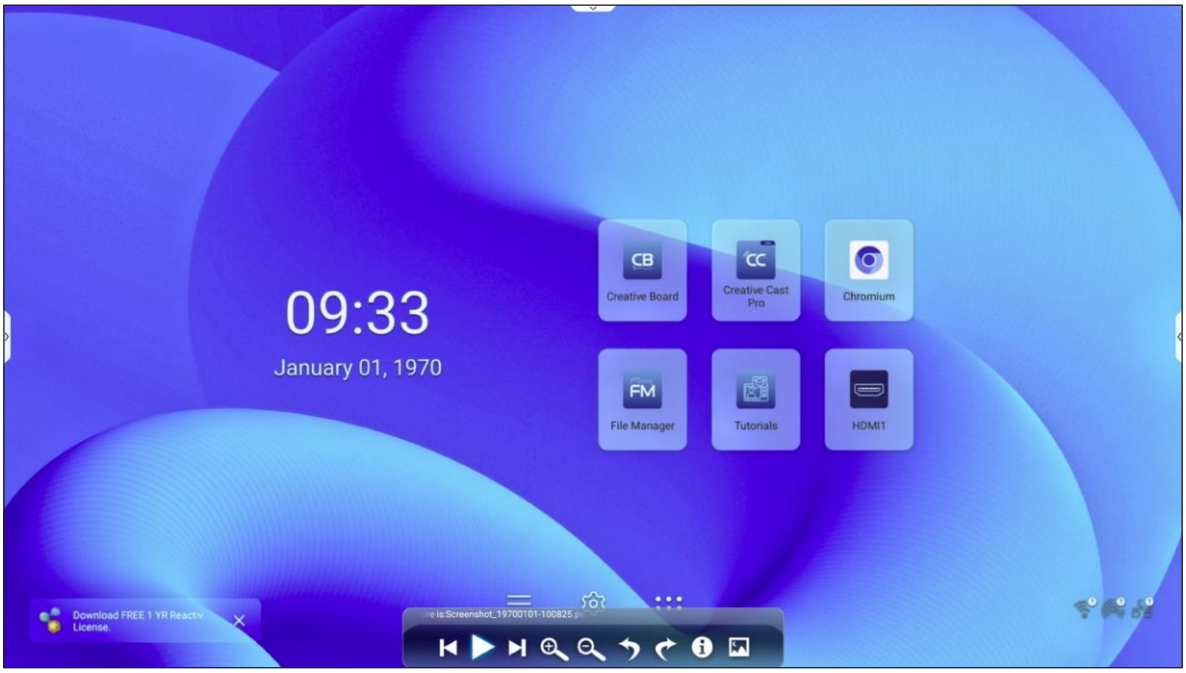
Item		Description
	Replay	Rewind the track
	Previous track	Skip to the previous track
	Speed up	Speed up the track
	Pause	Pause the playback. To resume, tap
	Information	Show track details

Note: *To return to the file manager, open the side toolbar and tap ⮌, press the **Return** key on the remote control, or press the ⮌ key on the control panel.*

USING THE APPS

Viewing photos

Tap to select a photo and view the selected photo in full screen.



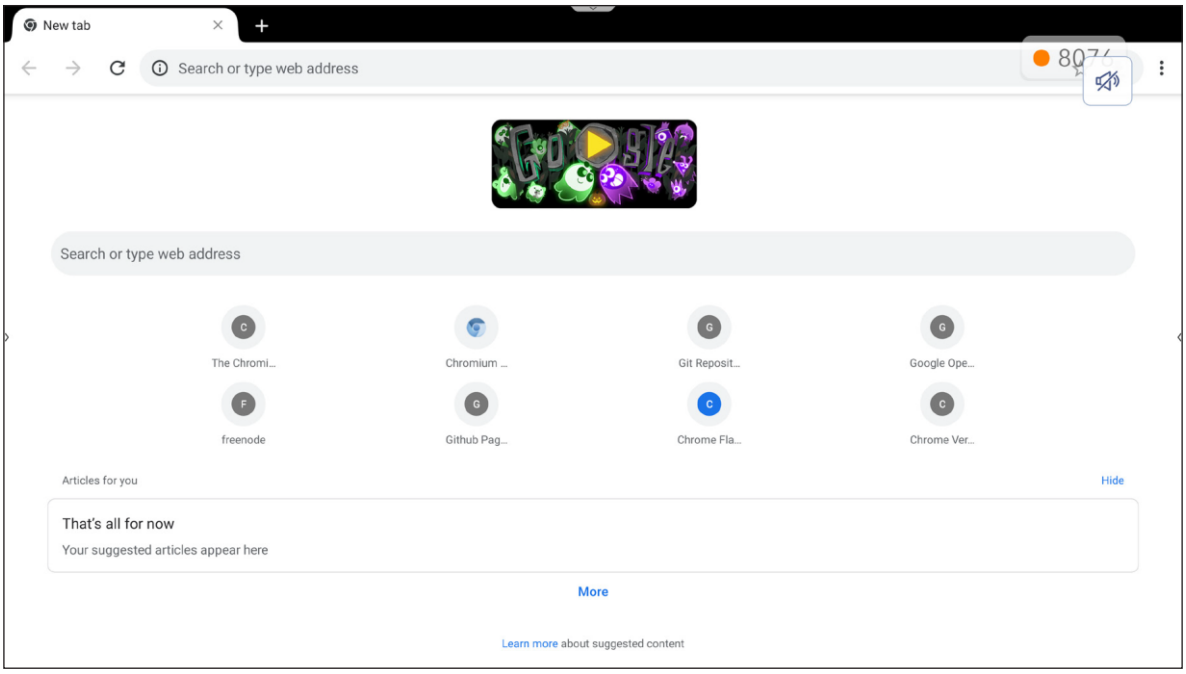
Item		Description
	Previous photo	Skip to the previous photo
	Slide show	Start the slide show. To stop, tap ⏸
	Next photo	Skip to the next photo
	Zoom in	Magnify the photo
	Zoom out	Zoom out on the magnified photo
	Rotate Left	Rotate the photo 90-degree counter-clockwise
	Rotate Right	Rotate the photo 90-degree clockwise
	Information	Show photo details
	Wall Paper	Configure the wallpaper

Note: *To return to the file manager, open the side toolbar and tap ⮌, press the **Return** key on the remote control, or press the ⮌ key on the control panel.*

USING THE APPS

Browser

Tap ***Browser*** to access web pages.

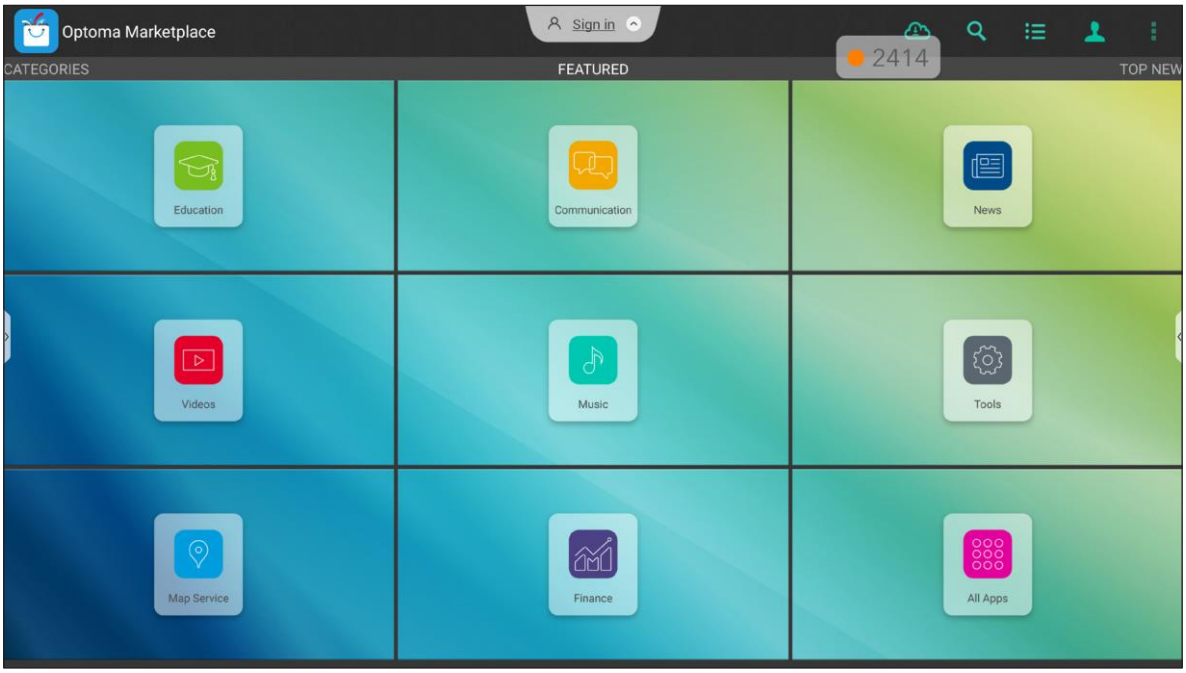


USING THE APPS

Optoma Marketplace

Tap ***Optoma Marketplace*** to visit the built-in app store and to download and install other third-party apps to the IFP.

Note: *To install third-party apps, make sure the **Install app from marketplace** option is enabled in the Settings ⇒ Security ⇒ Advanced Setting ⇒ Permissions section. Refer to page 50.*



Disclaimer for unauthorized apps on Creative Touch range Android-based interactive displays

For system security, Optoma's Creative Touch interactive flat panel displays run on a customized Android operating system. Additionally Optoma interactive flat panel displays do not support Google Play Services. Optoma has streamlined the Android operating system so only modules related to display features remain. The customized Android operating system may not be compatible with all third-party Android apps. Third-party Android apps can vary in quality and some even contain malicious codes, which could compromise system security and functionality and may invalidate your product warranty.

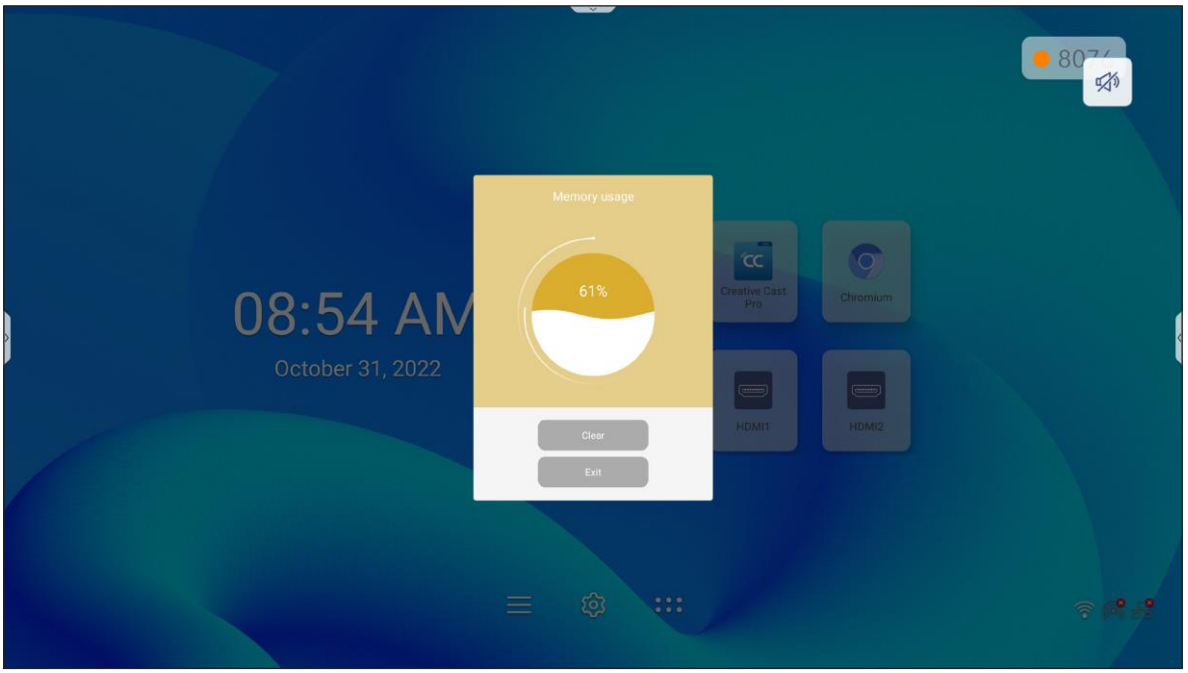
Optoma makes no representations regarding the quality, security or suitability of any third-party apps and their compatibility with the Optoma interactive flat panel. Optoma shall have no responsibility or liability with respect to any damage, faults, loss in functionality or security issues arising 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.

USING THE APPS

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.

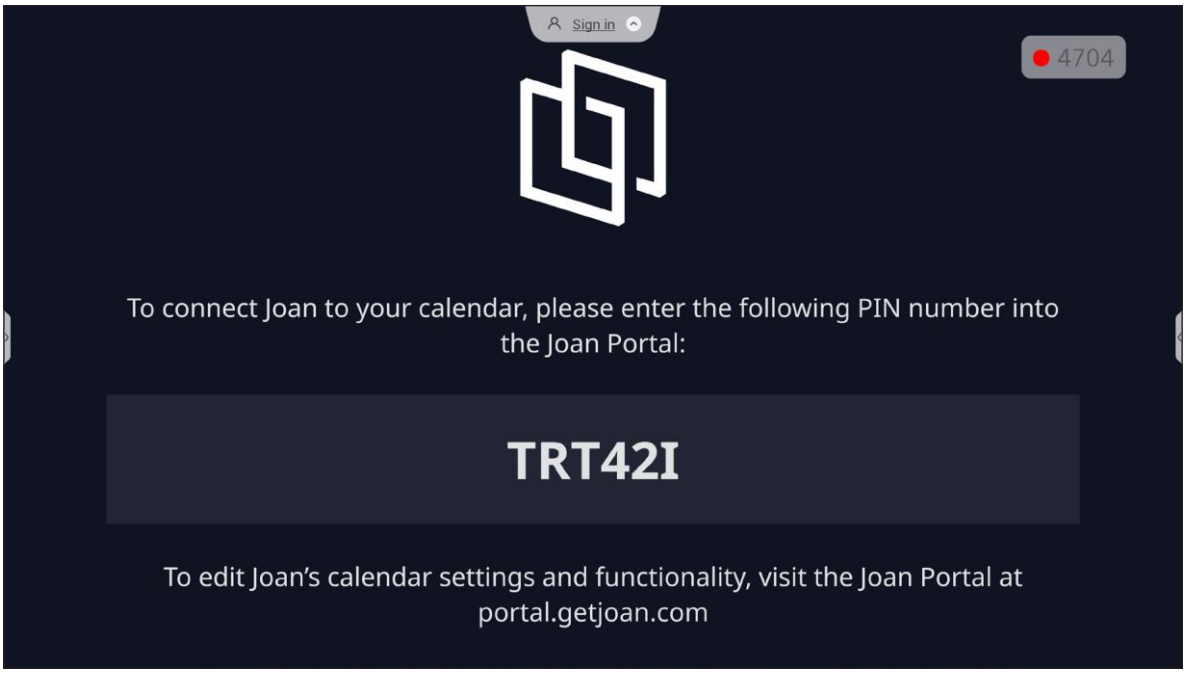
- For automatic cleaning of the memory, deleting temporary and junk files, tap ***Clear***.
- To exit the app, tap ***Exit***.



USING THE APPS

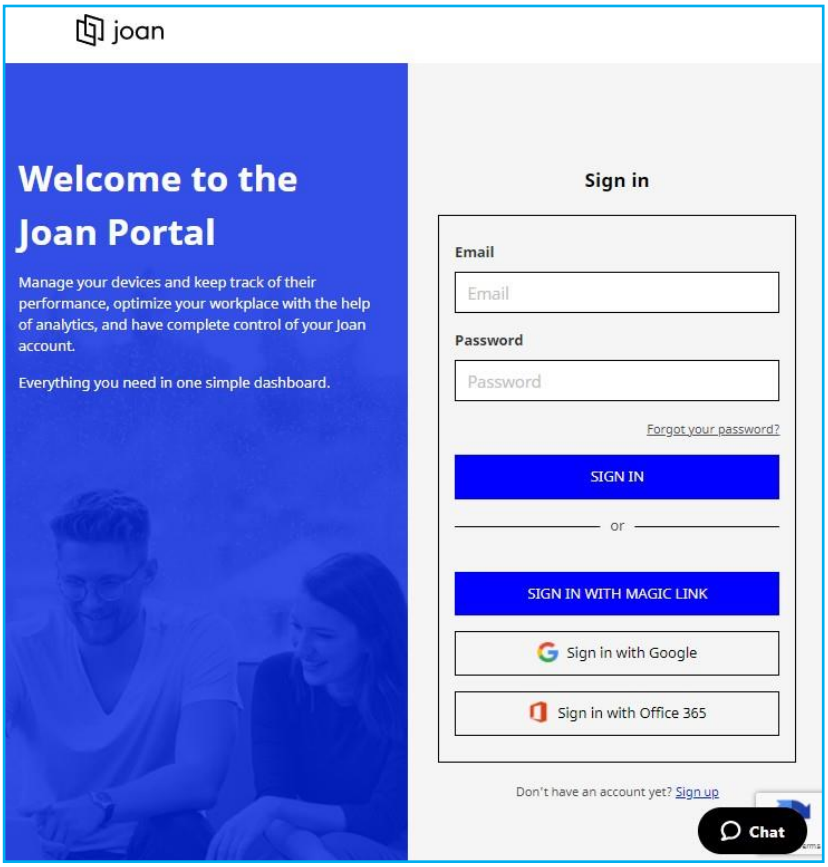
Joan on TV

Tap **Joan on TV** to get the access PIN number needed to connect the IFP to the Joan Portal.



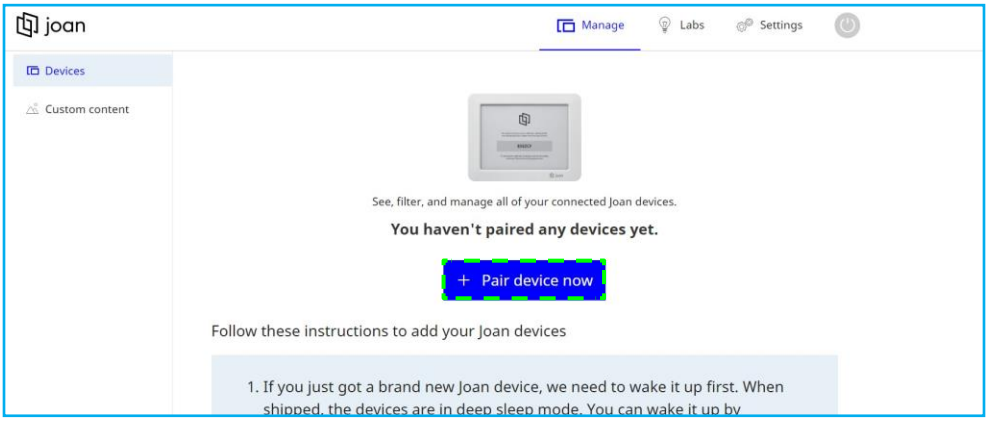
To connect the IFP to the Joan Portal, complete the following steps:

1. Open the web browser on your computer and enter *http://portal.getjoan.com* into the address bar.
   The Joan Portal login page will open. Sign in to the Joan Portal. If you have not yet created your Joan account, click ***Sign Up*** to create your account.



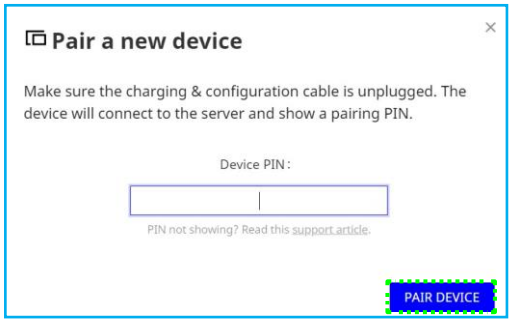
USING THE APPS

2. Click ***Pair device now*** to pair with IFP.

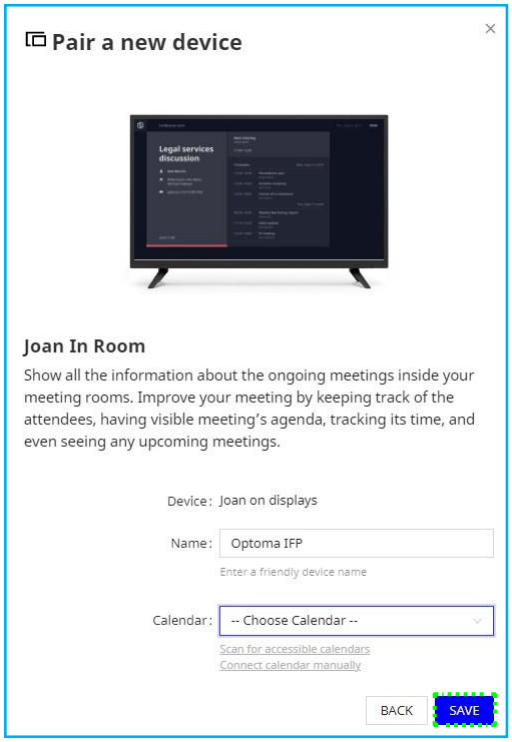


3. On the “Let’s pair your device” page, select any of the pairing methods.
For example, click ***PAIR DEVICE*** to pair with the IFP using the PIN number.

4. Enter the PIN number that is displayed on the IFP at the prompt and click ***PAIR DEVICE***.



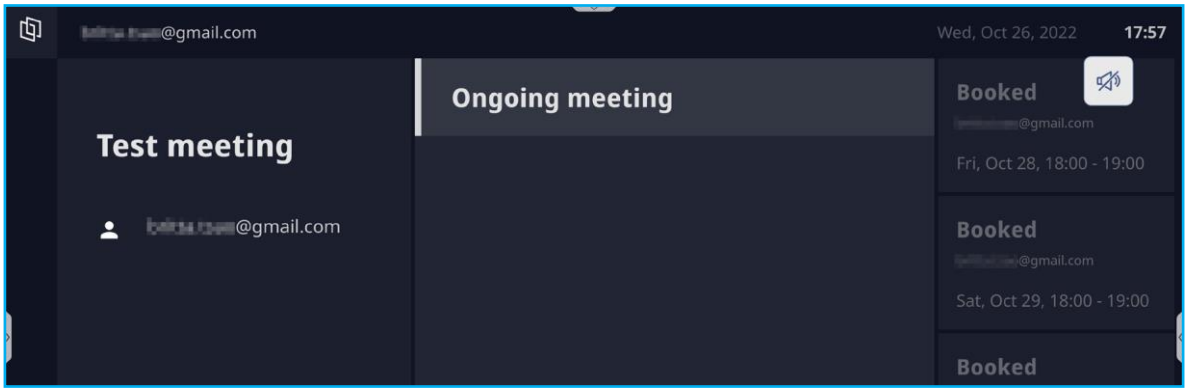
5. Enter the device name and select the calendar. Click ***SAVE*** to save the information.



All the meetings in the selected calendar will appear on the screen of the IFP.

USING THE APPS

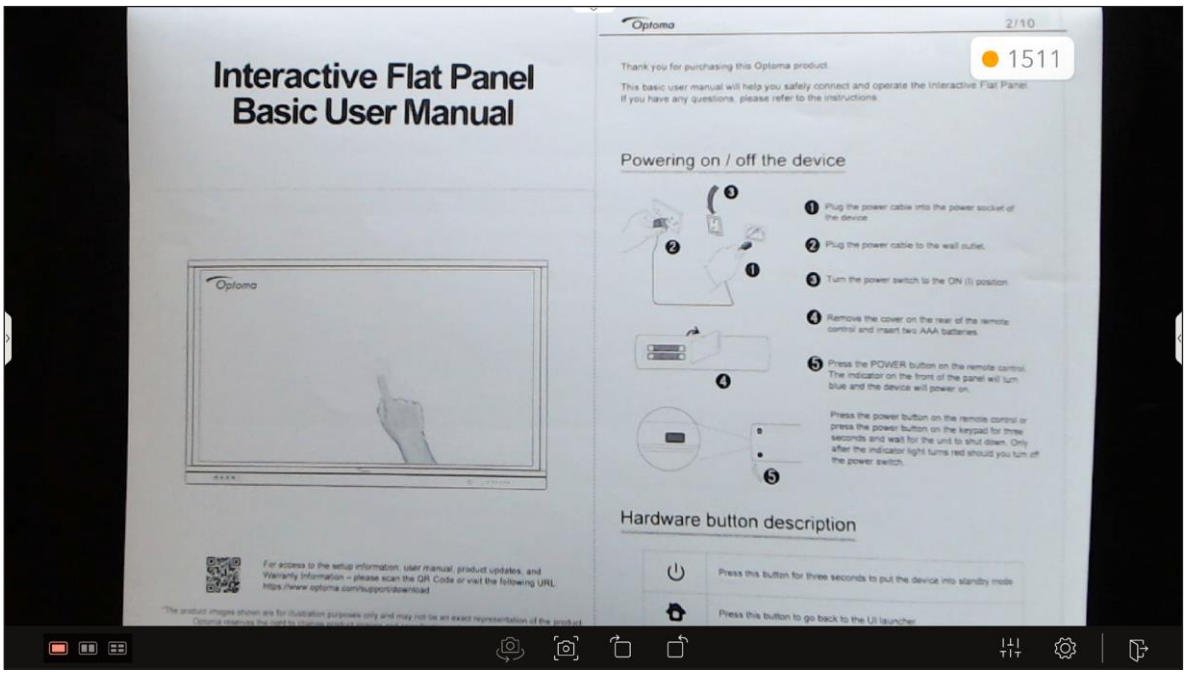
After successful connection, the IFP will display meeting room(s) schedule, meeting reminders, and meeting room reminders that are set in Joan Portal.



USING THE APPS

Visualizer

Visualizer is an operation app for a document camera. If you connect a document camera, tap ***Visualizer*** to set it up.

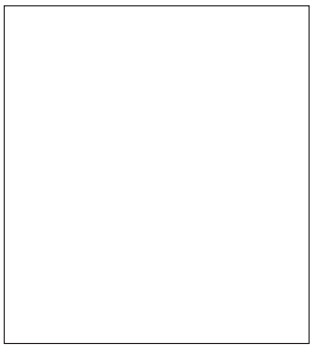
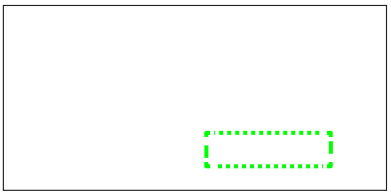
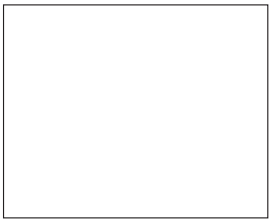


To use **Visualizer**, complete the following steps:

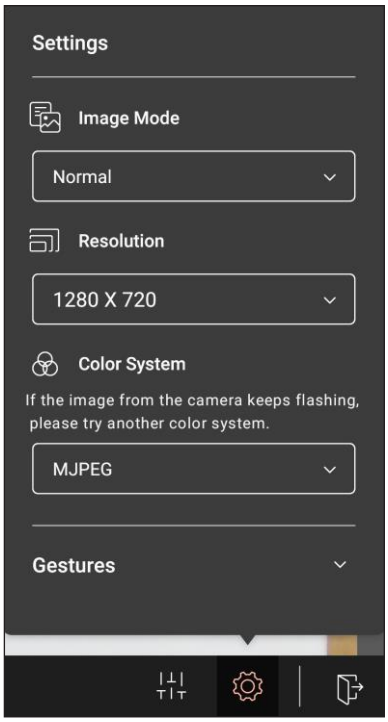
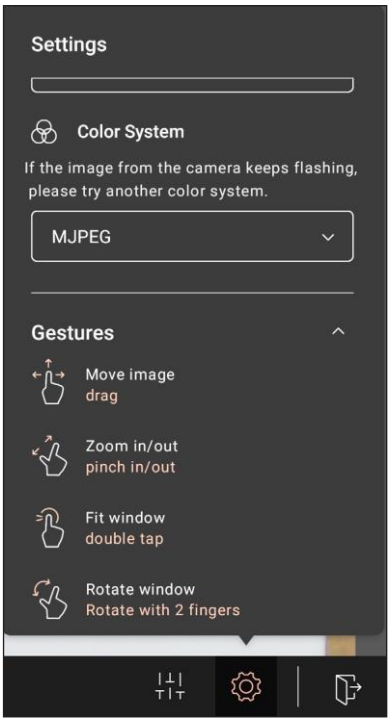
1. Connect a USB document camera to an available USB port on the IFP.
2. Launch the **Visualizer** app. The table below explains the various functions available in the **Visualizer** app.

Item		Description
	Layout	Select your preferred split-screen layout. **Note:** *The active layout is highlighted in red.*
	Camera switch	If you have connected more than one USB document camera, tap to switch between the cameras.

USING THE APPS

Item		Description
	Capture screen	Capture the screen image and select a location where you want to save it:  • **Paste on Whiteboard**: Paste the screen image on the Whiteboard. **Note:** *This action will clear all the data and close the **Visualizer** app. Tap **CONTINUE** at the prompt.*  • **Save**: Save the screen image to the internal disk's Picture ⇒ Capture folder. • **Save to USB**: Save the screen image to the USB flash disk. • **Share**: Save the screen image to the internal disk's Picture folder or share via Bluetooth to other devices. 
	Rotate	Rotate the screen image 90° clockwise or counterclockwise respectively. **Note:** *You can also rotate the screen image using gestures.*
	Adjustment	Drag the slider to the left or to the right to adjust the screen image brightness, contrast, saturation, and sharpness. **Note:** *To reset the settings, tap **Reset**.*

USING THE APPS

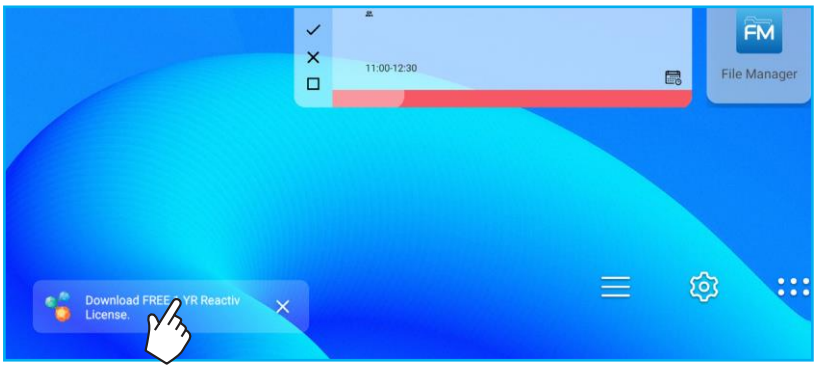
Item		Description
	Settings	Select the image mode, resolution, color system, and learn how to control the screen image using the gestures.  
	Exit	Exit **Visualizer**.

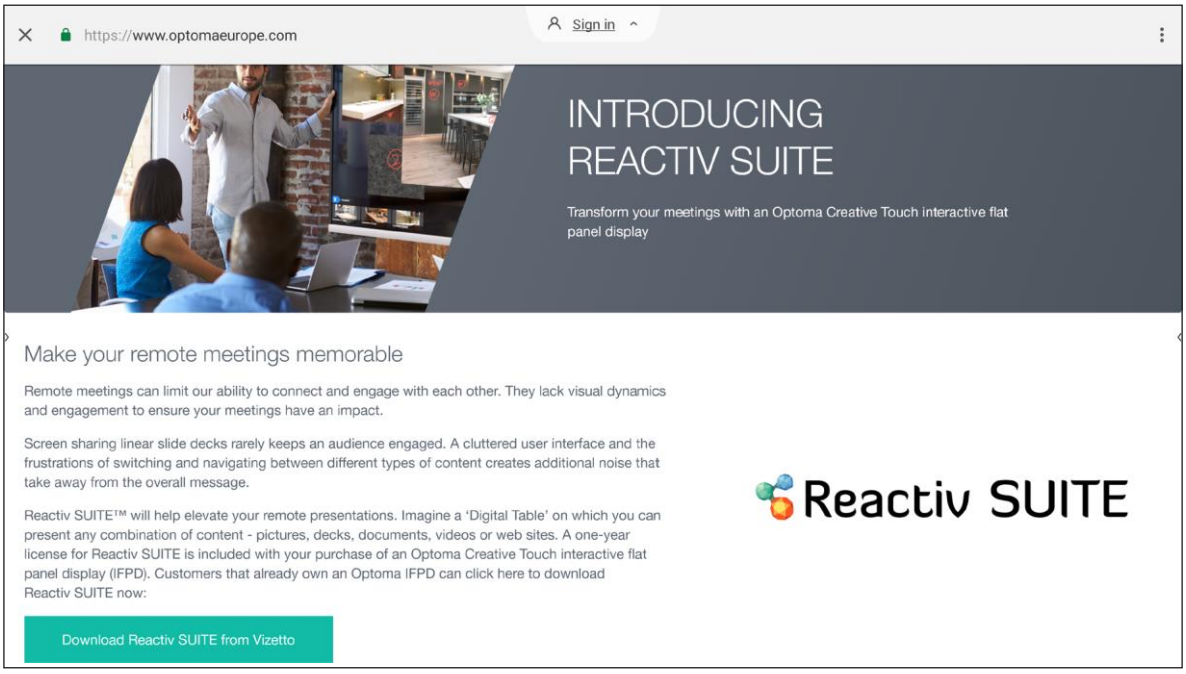
USING THE APPS

Other Software

Reactiv Suite

Reactiv SUITE is a digital workspace where multimedia content can be displayed, organised, manipulated, and annotated as naturally as paper. Present multiple types of non-linear content and seamlessly capture feedback without the extra clicks and micro-frustrations of traditional screen sharing tools. Even pin your camera and elevate your presence to stand out.





USING THE APPS

Optoma Management Suite (OMS)™

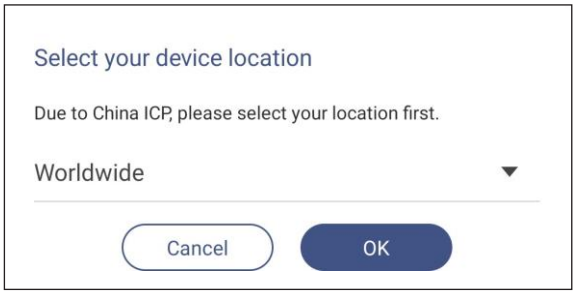
This IFP can be controlled using Optoma Management Suite. OMS is an intuitive cloud based display management solution, designed to streamline operations by monitoring, diagnosing and controlling audio visual displays from anywhere in the world via a single platform (Wi-Fi access required). OMS is the first management solution that is compatible across multiple display technologies such as projection, interactive flat panels and LED displays enabling easy integration into existing display fleets while offering differing levels of access and control for users, ensuring devices are securely managed.

With an easy-to-use interface and 24/7, real-time monitoring, OMS enables users to check the status of display devices and make configurations to optimise performance. IT administrators and technicians can easily dispatch and broadcast emergency messages, alerts, and announcements across any display worldwide. Additionally, users can also remotely program and schedule devices for usage only during primary operating hours, as well as implement immediate shutdown for emergencies, reducing energy consumption, and lowering operating costs.*

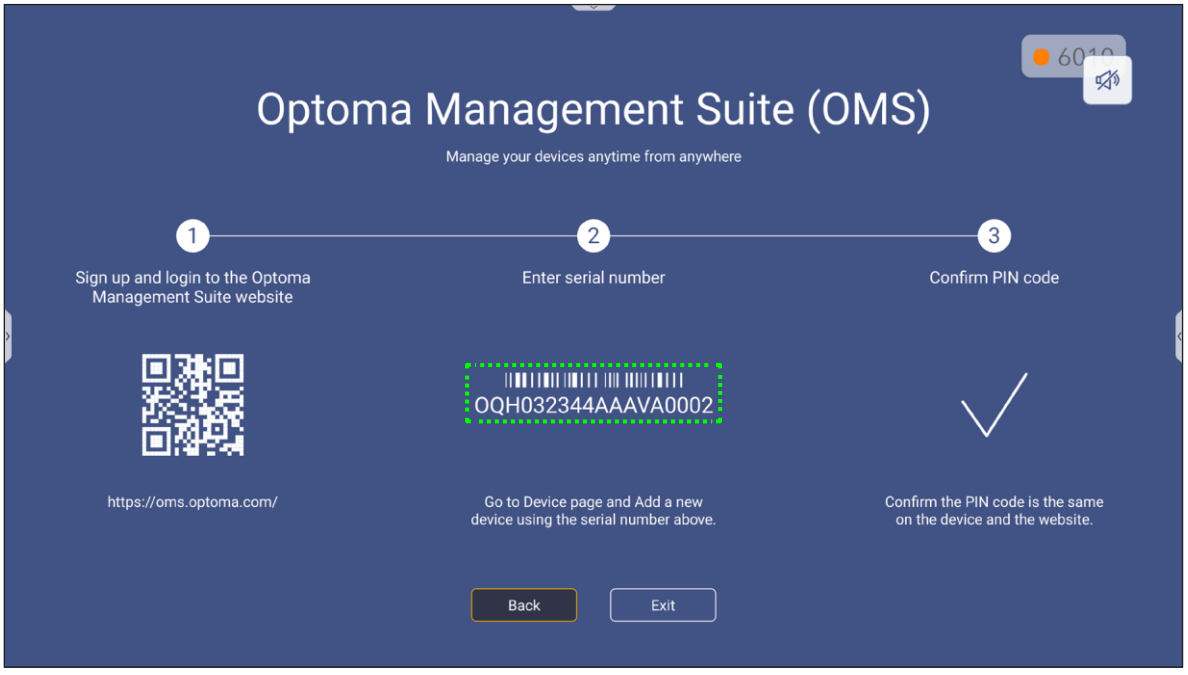
Note: **OMS is an ever-evolving platform with features and functions being added over time. For the latest feature set please check with your local sales representative.*

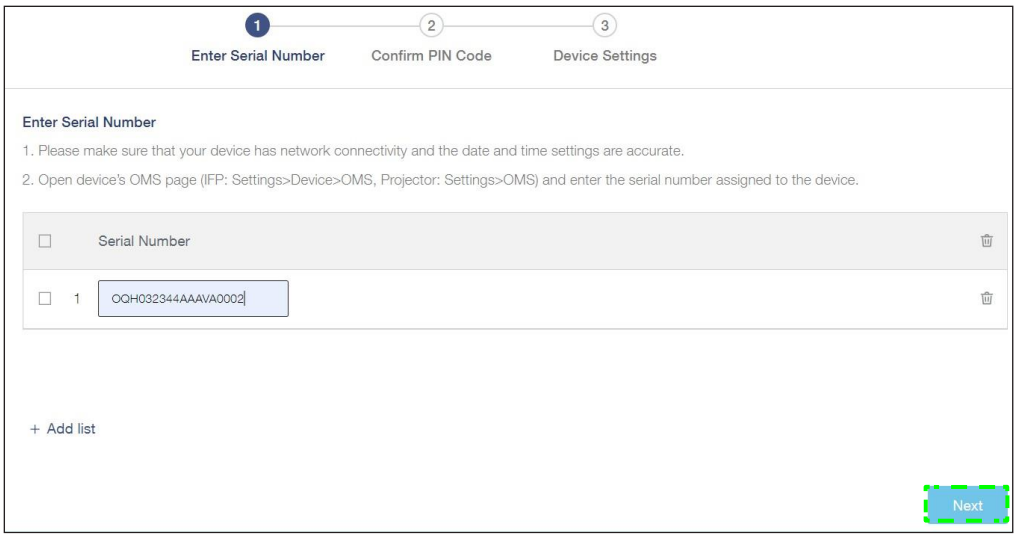
To start using **OMS**, complete the following steps:

1. Connect the IFP and your wireless device to the same Wi-Fi network.
2. Open ⇒ ***Device*** ⇒ ***OMS***.
3. Select the location of your choice for the device, either Worldwide or China. Then tap ***OK***.

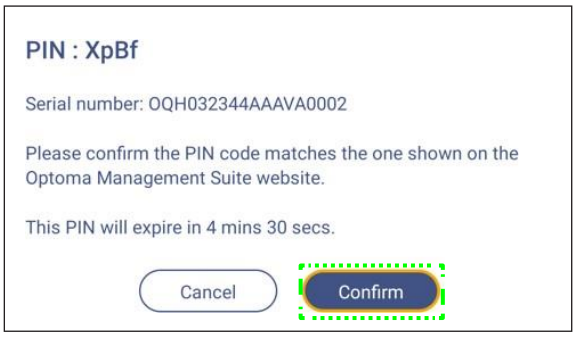


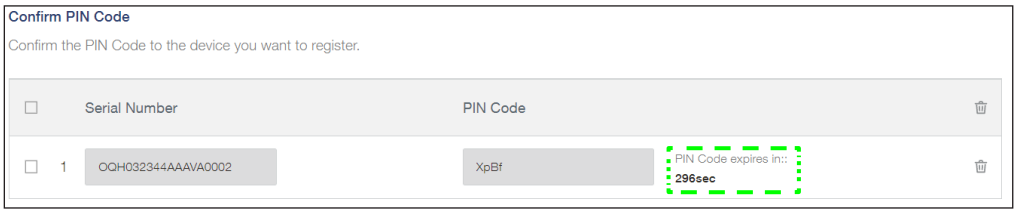
4. Scan the QR code on the OMS launcher screen. Sign up and login to the Optoma Management Suite website.
5. Find device Serial Number and type it into the OMS system. Then tap ***Next***.



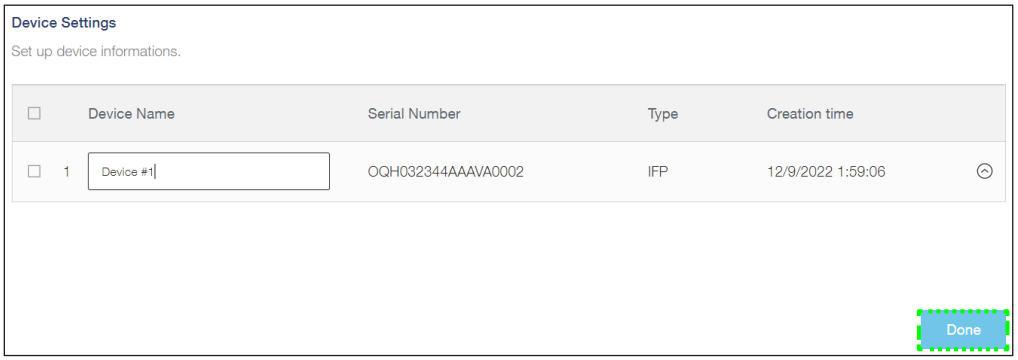


6. Confirm the PIN codes on both the launcher screen and web browser. If the codes match, tap ***Confirm*** on the OMS launcher screen.



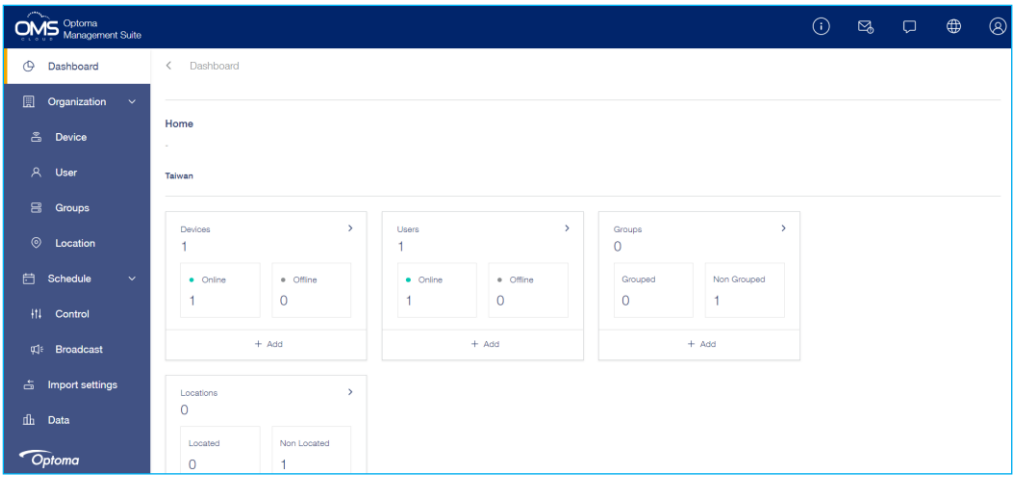


7. Type the device name and tap ***Done***.

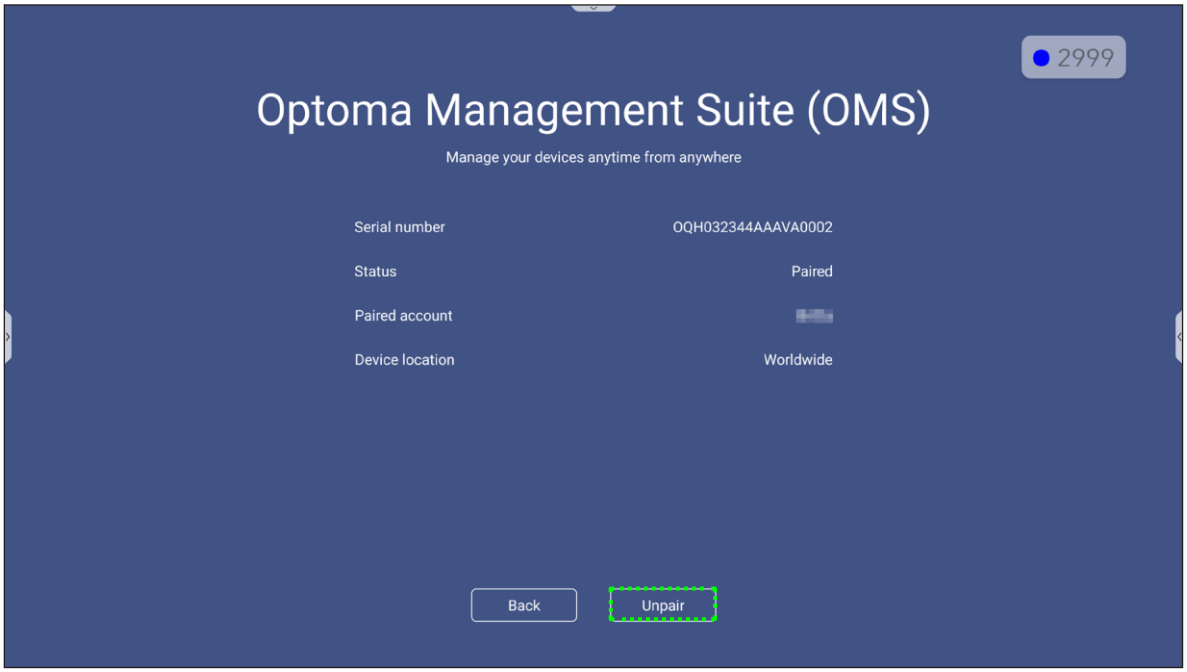


USING THE APPS

Use OMS to manage your IFP. For more information on OMS, refer to *https://onlinemanual.optoma.com/oms-en/bindingdevice*.



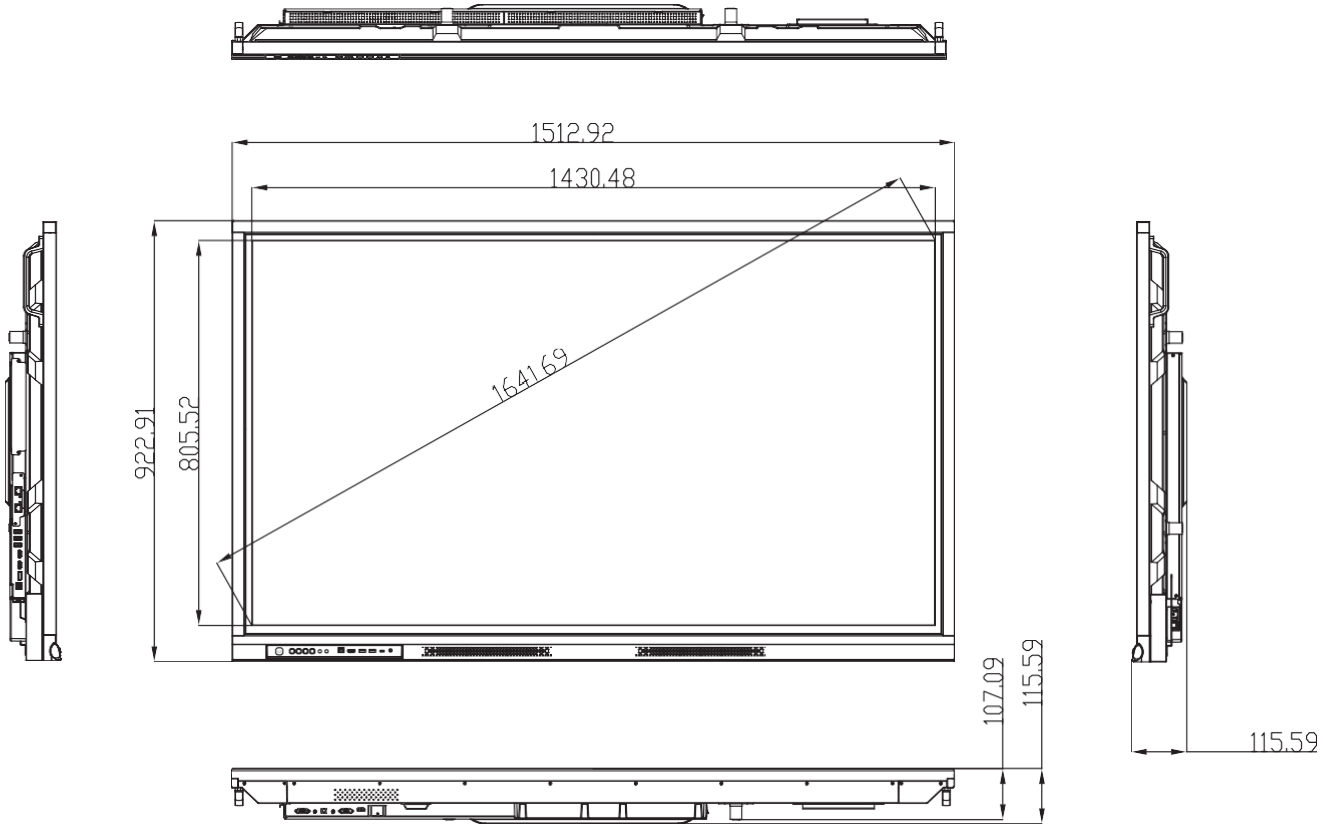
8. To unpair your IFP from the paired account, tap ***Unpair*** on the launcher screen.

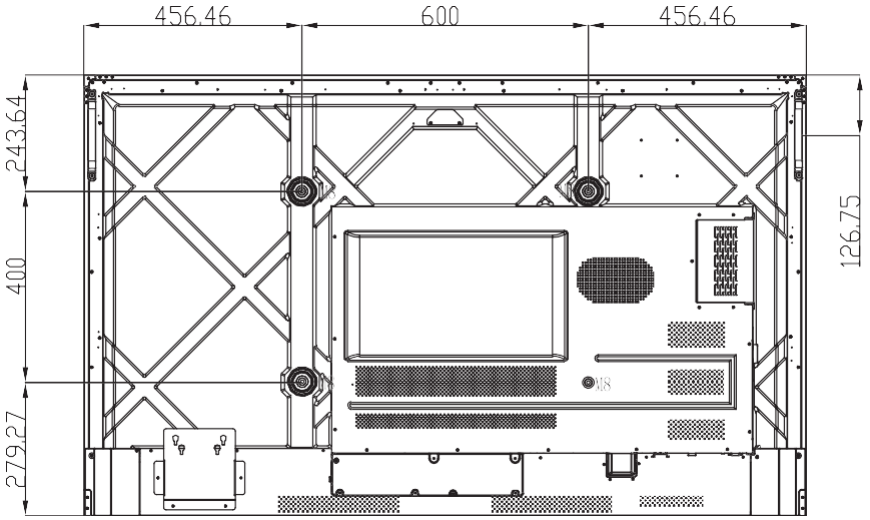


ADDITIONAL INFORMATION

Dimensions

65-inch

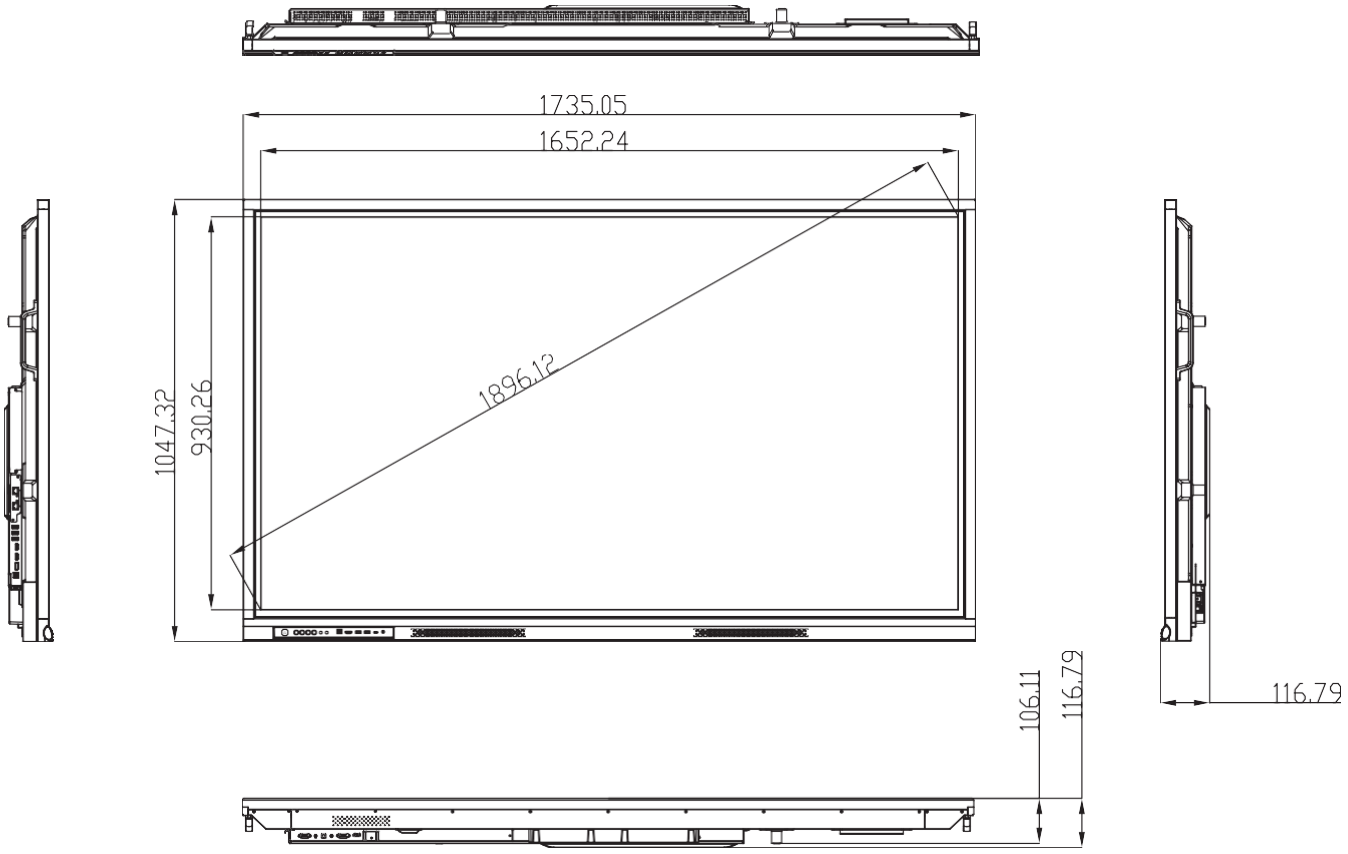


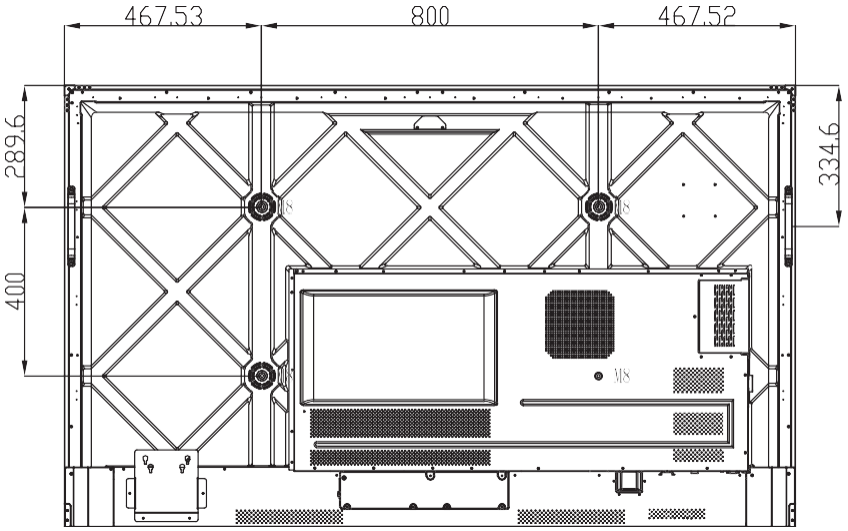


Unit: mm

ADDITIONAL INFORMATION

75-inch

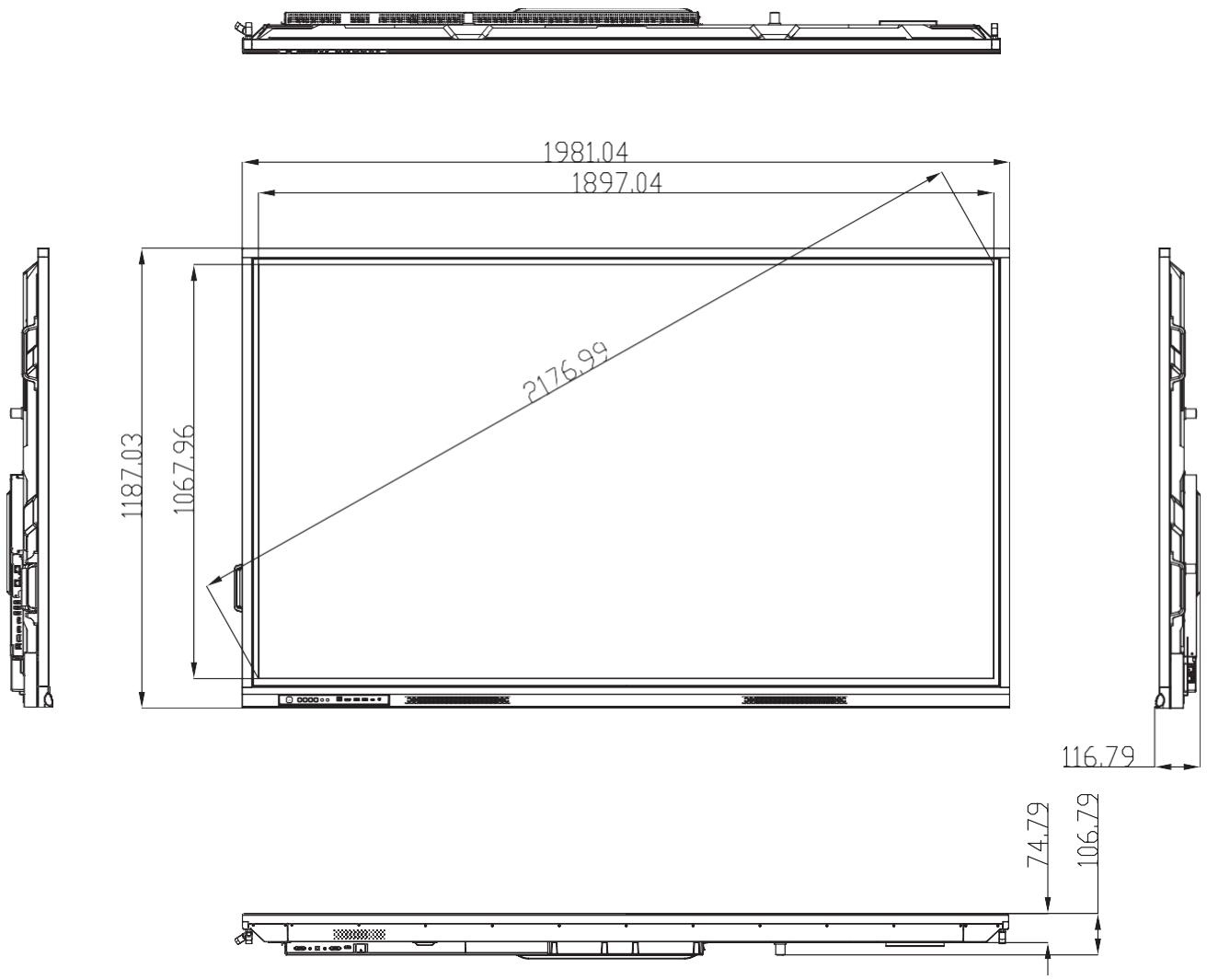


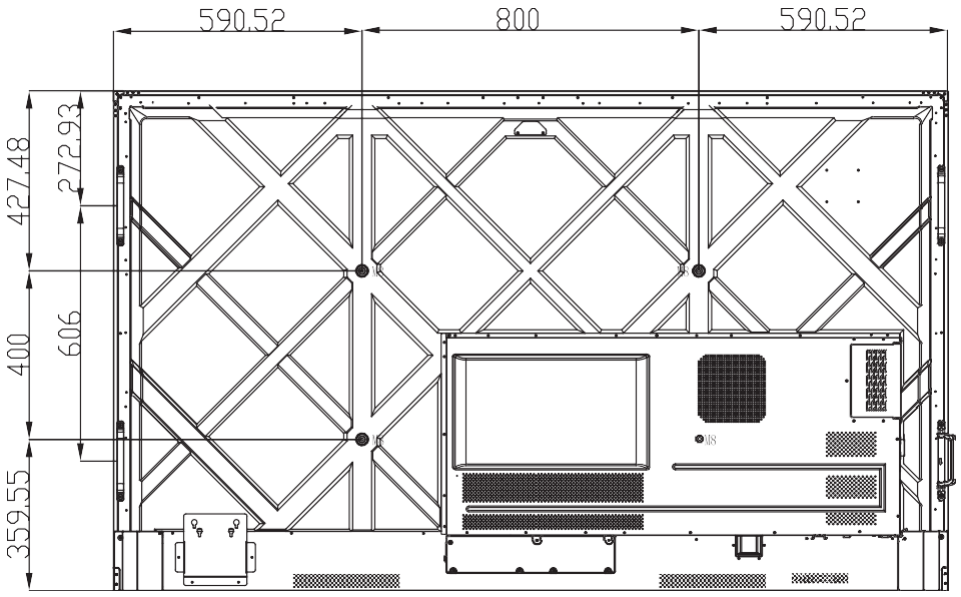


Unit: mm

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	DP	HDMI1/2/3/ Front (2.0)	Type C
1	720x400 @70Hz	IBM	28.32	31.78	70.00	Y	Y	/	Y
2	640x480 @60Hz	VESA	25.18	37.92	59.94	Y	Y	Y	Y
3	640x480 @72Hz	VESA	31.50	37.86	72.81	Y	Y	/	Y
4	640x480 @75Hz	VESA	31.50	37.50	75.00	Y	Y	/	Y
5	800x600 @56Hz	VESA	36.00	35.15	56.25	Y	Y	/	Y
6	800x600 @60Hz	VESA	40.00	37.87	60.31	Y	Y	Y	Y
7	800x600 @72Hz	VESA	50.00	48.07	72.18	Y	Y	/	Y
8	800x600 @75Hz	VESA	49.50	46.87	75.00	Y	Y	/	Y
9	832x624 @75Hz	MAC	57.28	49.72	74.55	Y	Y	/	Y
10	1024x768 @60Hz	VESA	65.00	48.36	60.00	Y	Y	Y	Y
11	1024x768 @70Hz	VESA	75.00	56.47	70.06	Y	Y	/	Y
12	1024x768 @75Hz	VESA	78.75	60.02	75.02	Y	Y	/	Y
13	1152x864 @75Hz	VESA	108.00	67.50	75.00	Y	Y	/	Y
14	1280x768 @60Hz(RB)	CVTRB	68.25	47.39	59.99	Y	Y	Y	Y
15	1280x768 @60Hz	CVT	79.50	47.77	59.87	Y	Y	Y	Y
16	1280x720 @60Hz	CEA-861	74.25	44.67	60.00	Y	Y	/	Y
17	1280x800 @60Hz	CVT	83.50	49.70	59.81	Y	Y	Y	Y
18	1280x960 @60.000Hz	VESA	108.00	60.00	60.00	Y	Y	Y	Y
19	1280x1024 @60Hz	VESA	108.00	63.98	60.00	Y	Y	Y	Y
20	1360x768 @60Hz	VESA	85.50	47.71	60.01	Y	Y	Y	Y
21	1440x900 @60Hz(RB)	CVTRB	88.75	55.46	59.90	Y	Y	Y	Y
22	1440x900 @60Hz	CVT	106.50	55.93	59.88	Y	Y	Y	Y
23	1600x1200 @60Hz	VESA	162.00	75.00	60.00	Y	Y	/	Y
24	1680x1050 60Hz	CVT	146.25	65.29	59.95	Y	Y	Y	Y
25	1920x1080 60Hz	CEA-861	148.50	67.50	60.00	Y	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

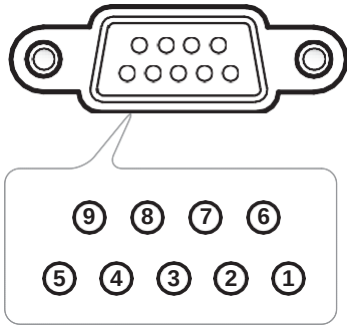
No.	Signal Timing Name	Reference	Clock	Hf	Vf	Input Source			
			[MHz]	[KHz]	[Hz]	VGA	DP	HDMI1/2/3/ Front (2.0)	Type C
35	1080i 59Hz	CEA-861	74.17	33.71	59.94	/	/	Y	/
36	1080i 50Hz	CEA-861	74.25	28.12	50.00	/	/	Y	/
37	1080p 60Hz	CEA-861	148.25	67.50	60.00	/	/	Y	/
38	1080p 59Hz	CEA-861	148.35	67.443	59.94	/	/	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	23

~	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=0-100	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
		HDMIFront		n=26	7E 30 30 31 32 20 32 36 0d	P	F
		USB Type C		n=27	7E 30 30 31 32 20 32 37 0d	P	F
		Display Port		n=20	7E 30 30 31 32 20 32 30 0d	P	F
		VGA		n=5	7E 30 30 31 32 20 35 0d	P	F
		Slot in PC		n=25	7E 30 30 31 32 20 32 35 0d	P	F
		Android		n=24	7E 30 30 31 32 20 32 34 0d	P	F
	Aspect Ratio	4:3	~xx60 n	n=1	7E 30 30 36 30 20 31 0d	P	F
		16:9		n=2	7E 30 30 36 30 20 32 0d	P	F
		PTP		n=14	7E 30 30 36 30 20 31 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

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=18	7E 30 30 31 34 30 20 31 38 0d	P	F

ADDITIONAL INFORMATION

Type	Category	Parameter	CMD		Hex Code CMD	Response	
						Success	Failed
SET	Remote control command	Vol -	~xx140 n	n=17	7E 30 30 31 34 30 20 31 37 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 0d	P	F
	Reset To Default		~xx112	n=1	7E 30 30 31 31 32 20 31 0d	P	F
	OSD lock	OSD lock On with password	~xx239 1 ~nnnn		7E 30 30 32 33 39 20 31 20 a 0d/ ~nnnn =~0000(a=7E 30 30 30)~9999(a=7E 39 39 39 39)	P	F
		OSD lock Off with password	~xx239 2 ~nnnn		7E 30 30 32 33 39 20 32 20 a 0d/ ~nnnn =~0000(a=7E 30 30 30)~9999(a=7E 39 39 39 39)	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	HDMIFront	F
					OK15	Display Port	F
					OK23	USB Type C	F
					OK2	VGA	F
					OK20	Android	F
					OK21	Slot in PC	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
					OK21	HDR	F
	Color Temp	~xx128 n	n=1	7E 30 30 31 32 38 20 31 0D	OK1	Cool	F
					OK0	Standard	F
					OK3	Warm	F
	WLAN status	~xx451 n	n=1	7E 30 30 34 35 31 20 31 0D	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
	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

ADDITIONAL INFORMATION

Type	Category	CMD		Hex Code CMD	Response		
					Success	Parameter	Failed
GET	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	Oknnnnnnnnnnnnn (ex. 20190926164814)	FW version	F
	Usage hour	~xx108 n	n=1	7E 30 30 31 30 38 20 31 0D	Oknnnnn	Usage 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	OKabbbbbccddddee (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
	Requlatory Model name	~xx151 n	n=3	7E 30 30 31 35 31 20 33 0d	Oknnn (ex. SLUGRK)	Regulatory model name	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	Okaaaaaaaaaaa aaaaaa	a= serial number string	F
		~00155 1				a=1 Green/ Normal a=2 Orange/ Notice a=3 Red/ Warming	F

ADDITIONAL INFORMATION

Note: *(*1)*

Power	*Running Time*	*Input Source*	*Firmware Version*	*Display Mode*
• *a=0 Power Off* • *a=1 Power On*	*Usage hours = nnnnn*	• *cc=02 VGA1* • *cc=08 HDMI2* • *cc=10 Component* • *cc=14 HDMI3* • *cc=15 DisplayPort* • *cc=18 Android* • *cc=19 Slot in PC* • *cc=21 USB Type C*	*# # # #*	• *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 Red then Blue 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 signal is out of range

- The signal may be incompatible. Refer to the “Supported Timing List” section.
- For the VGA input source, press the [A] key on the remote control to automatically adjust the screen or adjust the **Frequency** and **Phase** settings in OSD ⇒ Signal menu.

The touch panel does not respond

- Make sure the screen is not exposed to direct sunlight or other strong light.
- For the external device connection, make sure the USB cable is properly connected to the Touch USB port of the IFP.

If the remote control does not work

- Check that the operating angle of the remote control is pointed within ±30° 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.
- Make sure batteries are inserted correctly and replace the batteries if they are depleted. Refer to the “Installing/Replacing the Remote Control Batteries” section.

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.

Clean the Front Frame

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

ADDITIONAL INFORMATION

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