

Interactive Flat Panel

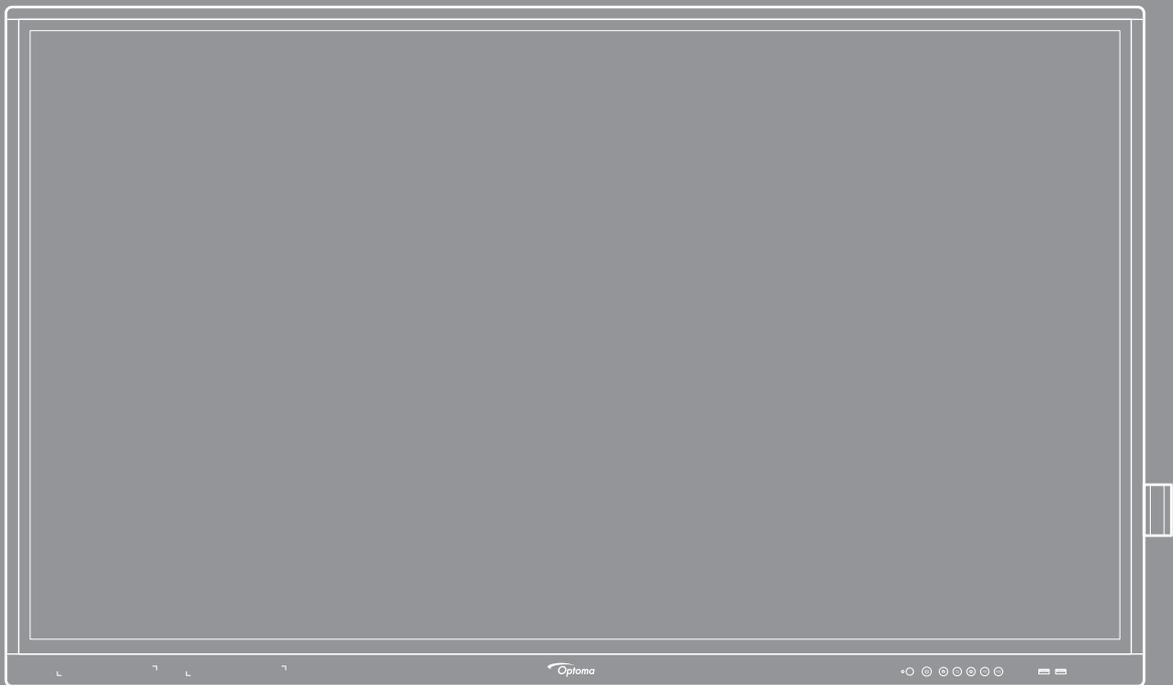


TABLE OF CONTENTS

SAFETY	5
Safety Instructions	5
Copyright	6
Disclaimer	6
Trademark Recognition	6
FCC Statement	6
FCC Warning	6
Declaration of Conformity for EU Countries	7
WEEE	7
ENERGY STAR	7
INTRODUCTION	8
Package Contents	8
Standard Accessories	8
Optional Accessories	9
Product Overview	10
Front View	10
Rear View	11
Remote Control	12
SETUP AND INSTALLATION	14
Wall Mounting Installation	14
Wall Mount Specifications	14
Installing an External Mini Computer	17
Stand Mounting Installation (Optional)	18
Using the Remote Control	21
Installing/Replacing the Remote Control Batteries	21
Remote Control Operating Range	22
Connections	23
Connecting to Power	23
Connecting External Devices	23
USING THE DEVICE	28
Turning the Power On/Off	28
Setup Wizard	29
BASIC OPERATIONS	31
Home Screen Overview	31
Setup Menu	32
Selecting an Input Source	33
Adjusting the Backlight Level	33
Activating the Low Blue Light Function	34

Adjusting the Volume Level	34
Configuring OSD Settings	35
Configuring Image Settings	35
Configuring Display Settings	36
Configuring Signal Settings (for VGA input only).....	37
Configuring Audio Settings	37
Viewing Device Information	38
Configuring Advanced Settings	39
Personalizing the System	40
Configuring Network Settings	41
Configuring Device Settings	43
Configuring Security Settings	45
Configuring System Settings	47
Side Toolbar.....	51
Viewing Recent Tasks	52
Team Share App.....	53
Annotation App	58
Screen Freezing	59
Other Utilities	59
Screen Recorder	66
Floating Annotation Toolbar	66

USING THE APPS 67

TapCast Pro.....	68
TapCast Pro App Compatibility Table	68
Mobile Device	68
Computer.....	70
TapCast Pro Advanced Settings.....	72
File Manager	74
Managing Files	74
Cloud Storage	76
Playing Multimedia Files.....	77
Screen Lock.....	81
Browser.....	81
Keeper.....	82
Joan on TV.....	82
Visualizer	86

ADDITIONAL INFORMATION 87

Dimensions.....	87
65-inch.....	87
75-inch.....	88
86-inch.....	89
Supported Timing List.....	90
RS232 Protocol Function List.....	92
RS232 Pin Assignments	92
RS232 RJ45 Control Connection	92
SET Command	93
GET Command	95

LED Indicator.....	97
Troubleshooting.....	98
Maintenance.....	99
Cleaning the Screen.....	99
Clean the Front Frame.....	99
Optoma Global Offices.....	100

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, it is recommended to install the device in a location that does not block ventilation. Do not put the device in an enclosure such as a book case or a cabinet that restricts air flow.
- Do not use the device near water or moisture. To reduce the risk of fire and/or electric shock, do not expose the device to rain or moisture.
- Do not install near heat sources such as radiators, heaters, stoves or any other apparatus, such as amplifiers, that 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 the device may become damaged.
- Do not setup the device in places where it might be subjected 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 to the device.
 - The device has been exposed to rain or moisture.
 - Something has fallen in the device or something is loose inside.
- Do not attempt to service the device yourself. Opening or removing covers may expose you to dangerous voltages or other hazards. Please call Optoma before you send the device for repair.
- Disconnect the power plug from AC outlet if the device is not being used for a long period of time.
- Remove the batteries from the remote control before storage. If the batteries are left in the remote for long periods, they may leak.
- Turn off and unplug the power plug from the AC outlet before cleaning the device.
- Use a soft dry cloth with mild detergent 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.

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-3 (B).

Remarque à l'intention des utilisateurs canadiens

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Declaration of Conformity for EU Countries

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

WEEE



Disposal instructions

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

ENERGY STAR



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

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

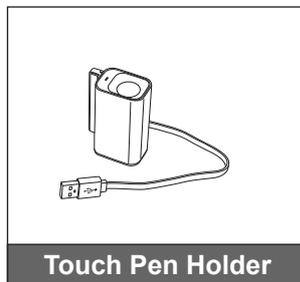
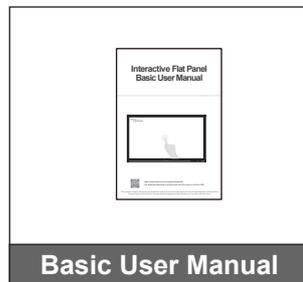
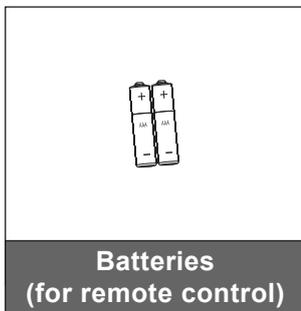
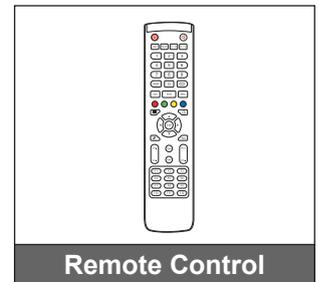
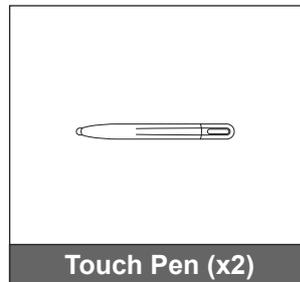
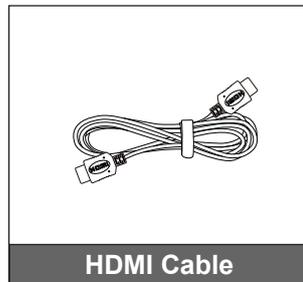
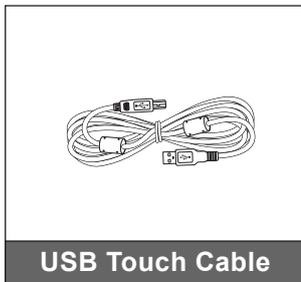
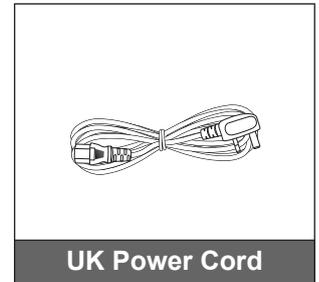
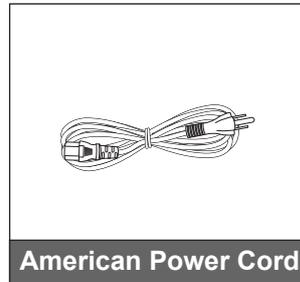
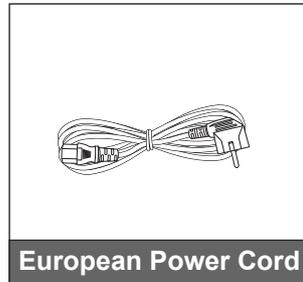
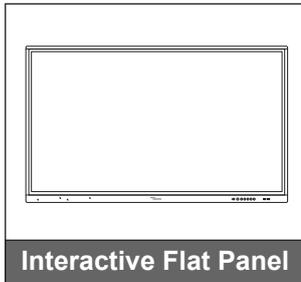
INTRODUCTION

Package Contents

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

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

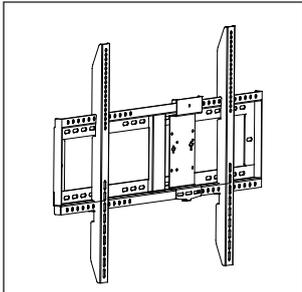
Standard Accessories



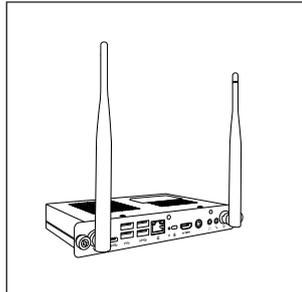
Note: For warranty information, please visit www.optoma.com.

INTRODUCTION

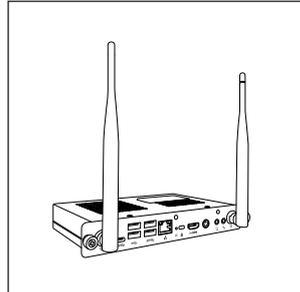
Optional Accessories



Wall Mount with
PC Vesa Bracket
(OWMFP01)



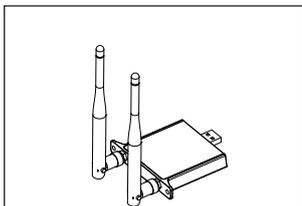
OPS2-i5 (slot in PC,
intel i5 8th CPU, 8G
RAM, 128G SSD)



OPS2-i7 (slot in PC,
intel i7 8th CPU, 8G
RAM, 256G SSD)



Stand Mount

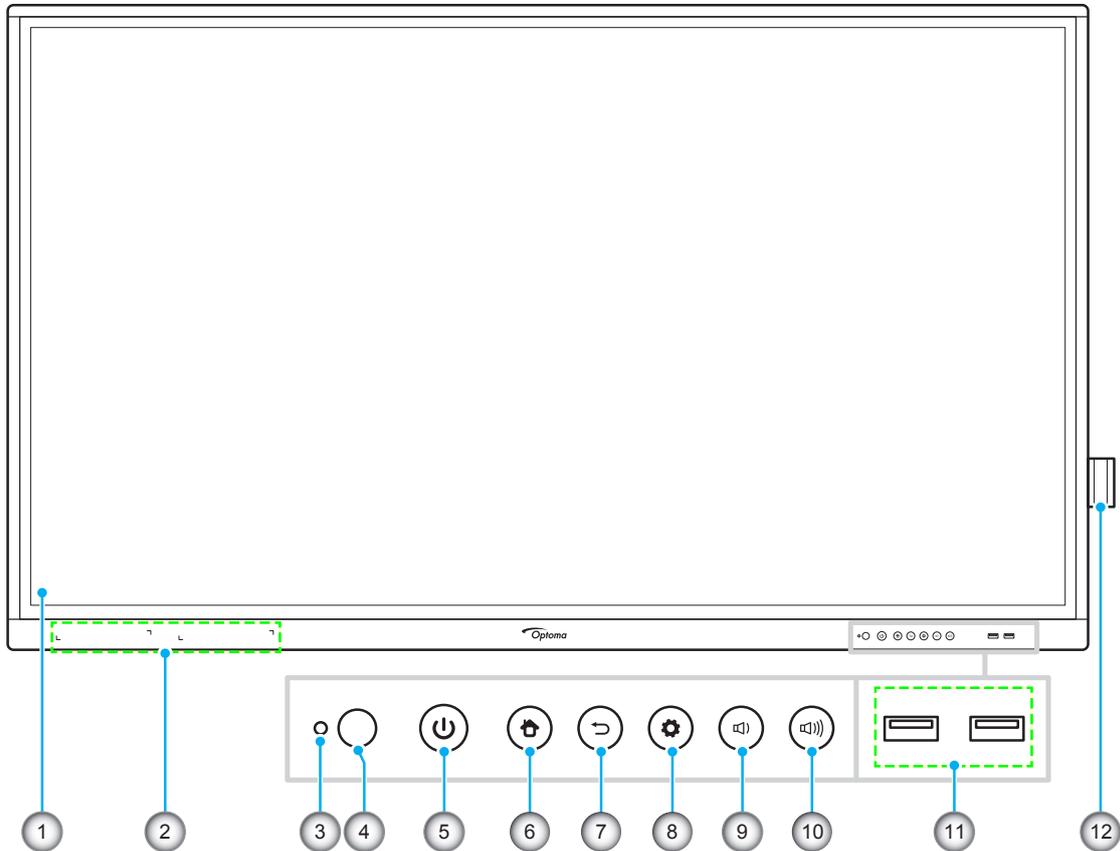


Wi-Fi Dongle

INTRODUCTION

Product Overview

Front View



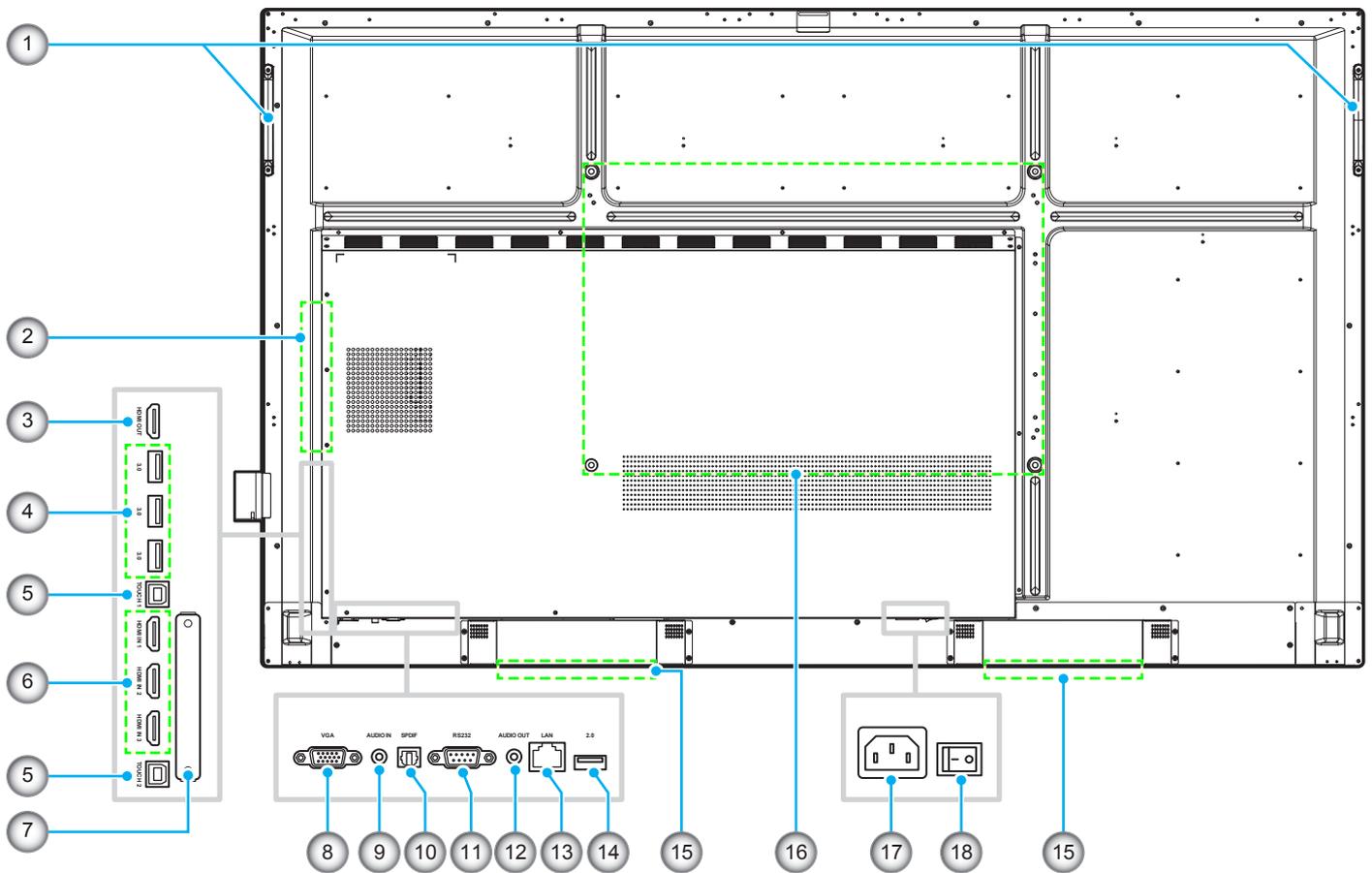
No.	Item
1.	Touch screen
2.	Touch pen placements (x2)
3.	Light sensor
4.	IR receiver
5.	Power button with LED indicator
6.	Home button

No.	Item
7.	Back button
8.	Setup menu button
9.	Decrease volume button
10.	Increase volume button
11.	USB 2.0 ports (x2)
12.	Touch pen holder

Note: Front USB 2.0 ports are full channel USB ports. USB ports can be used irrespective of the chosen input source.

INTRODUCTION

Rear View



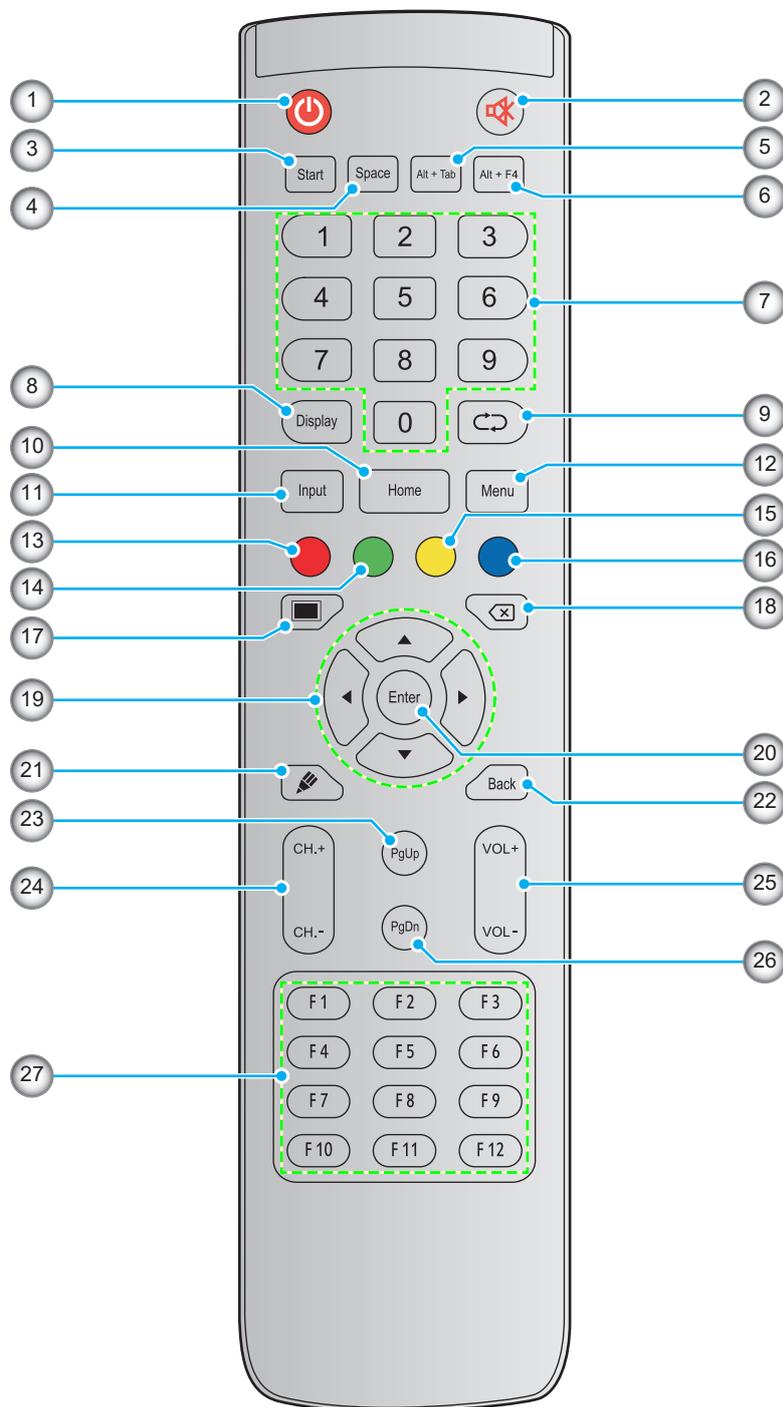
No.	Item
1.	Handles (x2)
2.	OPS slot
3.	HDMI Out port
4.	USB 3.0 ports (x3)
5.	Touch USB port (x2)
6.	HDMI 2.0 ports (x3)
7.	Wi-Fi dongle slot
8.	VGA port
9.	Audio In port

No.	Item
10.	SPDIF port
11.	RS232 port
12.	Audio Out jack
13.	LAN port
14.	USB 2.0 port
15.	16W speakers (x2)
16.	Mounting holes for wall mount
17.	AC In socket
18.	Power switch

Note: Side USB 3.0 ports are full channel USB ports. USB ports can be used irrespective of the chosen input source.

INTRODUCTION

Remote Control



No.	Button	Description
1.	Power (🔌)	Turn on/off the interactive flat panel (IFP).
2.	Mute (🔇)	Turn off the sound temporarily.
3.	Start	Perform the same function as the Windows key on a computer keyboard.
4.	Space	Perform the same function as the Space key on a computer keyboard.
5.	Alt+Tab	Perform the same function as the Alt and Tab keys on a computer keyboard. Pressing both keys, you can switch between all open applications (windows).

INTRODUCTION

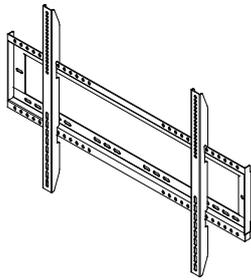
No.	Button	Description
6.	Alt+F4	Perform the same function as the Alt and F4 keys on a computer keyboard. Pressing both keys, you can close the current window.
7.	Numeric keys	Numeric input keys
8.	Display	Show the current input source and information.
9.	Repeat (↵)	No function.
10.	Home	Return to the Home screen.
11.	Input	Select the input source.
12.	Menu	Display or hide the OSD menu.
13.	Red (●)	Lock or unlock the Power button (on the IFP) and touch functions.
14.	Green (●)	Lock or unlock the Power button (on the IFP) function.
15.	Yellow (●)	Lock or unlock the touch function.
16.	Blue (●)	Freeze the screen.
17.	Blank (■)	Blank the screen.
18.	Backspace (⌫)	Perform the same function as the Backspace key on a computer keyboard.
19.	Navigation keys (▲▼◀▶)	Select an item or option.
20.	Enter	Confirm the selection.
21.	Team Share (👤)	Launch the Team Share app.
22.	Back	Return to the previous screen.
23.	PgUp	Perform the same function as the PgUp key on a computer keyboard.
24.	Channel keys	No function.
25.	Volume keys	Adjust the volume level.
26.	PgDn	Perform the same function as the PgDn key on a computer keyboard.
27.	Function keys (F1 ~ F12)	Perform the same function as the F1 ~ F12 function keys on a computer keyboard.

Note: If the PC module is not installed into the OPS slot, all computer-related keys will have no function.

SETUP AND INSTALLATION

Wall Mounting Installation

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



Dual mounting brackets and wall mount



Screw A (x4)



Screw B (x8)



Screw C (x2)



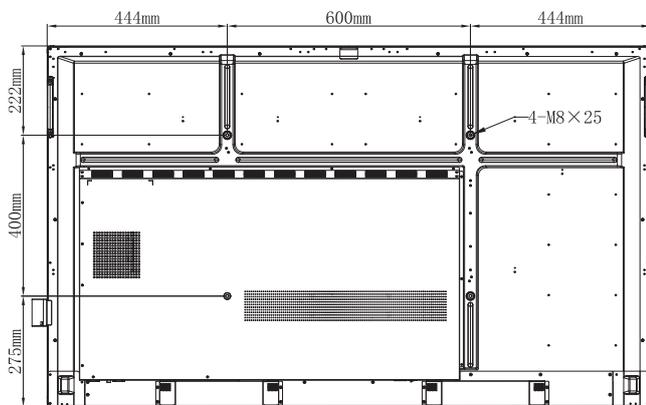
Anchor (x8)



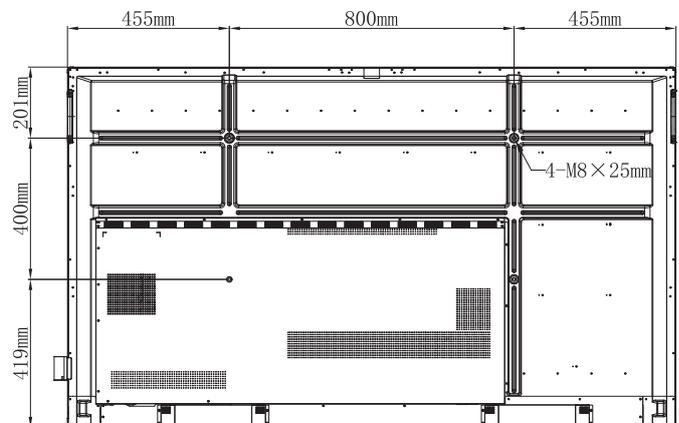
Washer (x8)

Wall Mount Specifications

Model 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

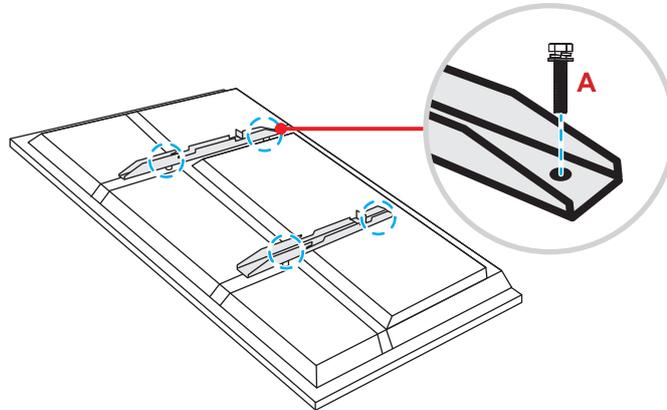


86-inch

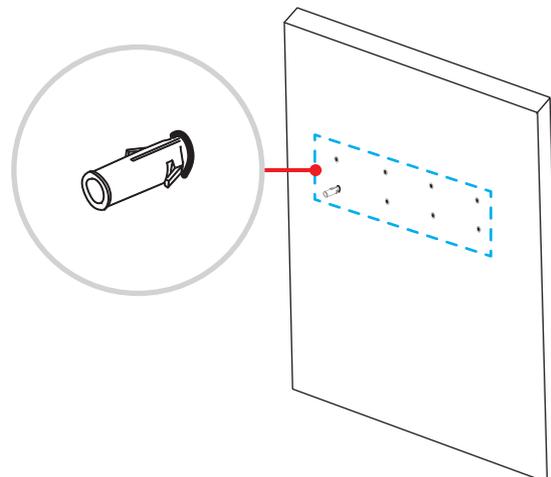
SETUP AND INSTALLATION

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

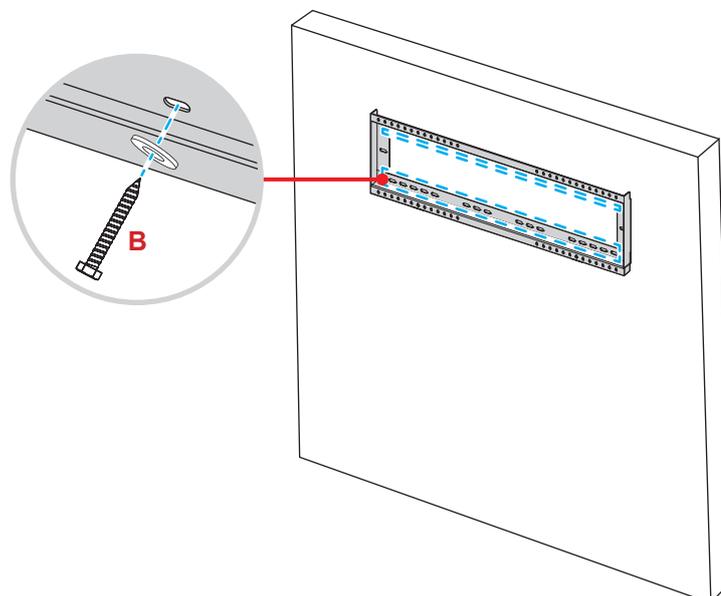
1. Install the dual mounting brackets on the rear of the IFP. Then secure the brackets with four screws (A).



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

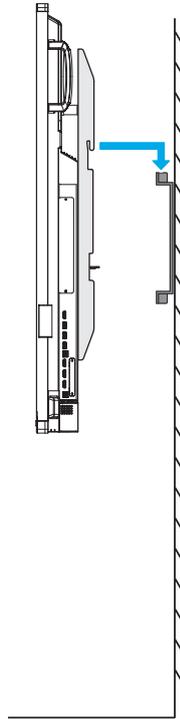


3. Position the wall mount on the wall, then secure the wall mount with eight screws (B) through the washers into the installed anchors on the wall.

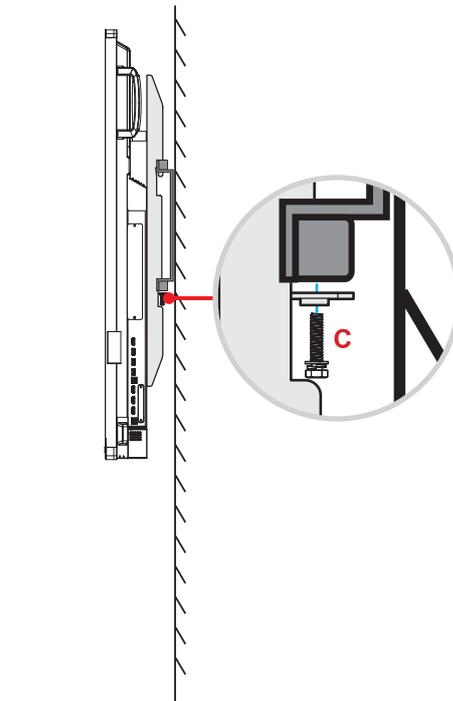


SETUP AND INSTALLATION

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



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



Note:

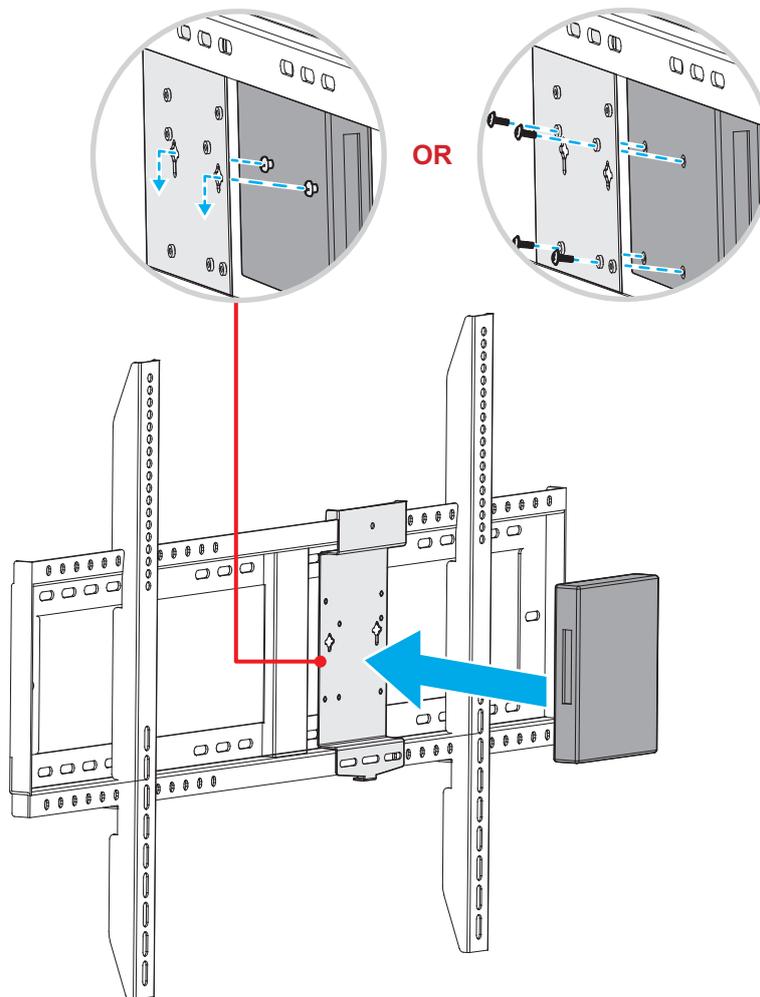
- *The maximum wall mount kit load capacity: 160kg (352lbs).*
- *The wall mount should be installed into concrete wall to ensure installation firmness. If concrete wall is not available, we recommend to use a stand instead. Please refer to page 18.*
- *Screws must be tightly secured; however, to avoid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

SETUP AND INSTALLATION

Installing an External Mini Computer

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

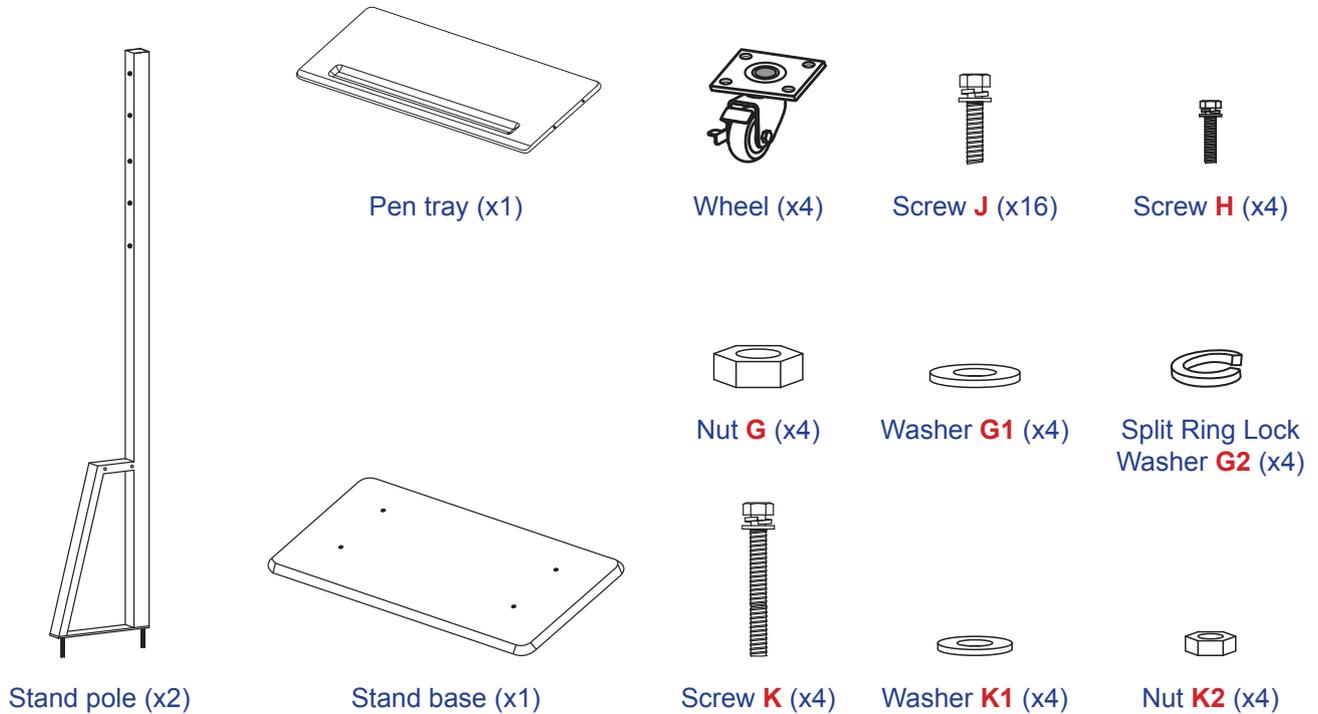
- Install the screws onto the mini computer, then align and hook the mini computer to the mini PC bracket.
- Align and install the mini computer to the mini PC bracket. Then secure it with four screws.



SETUP AND INSTALLATION

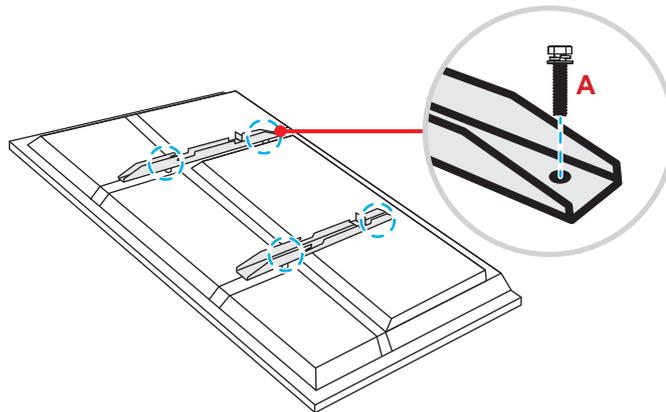
Stand Mounting Installation (Optional)

The stand mount kit includes the following items:



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

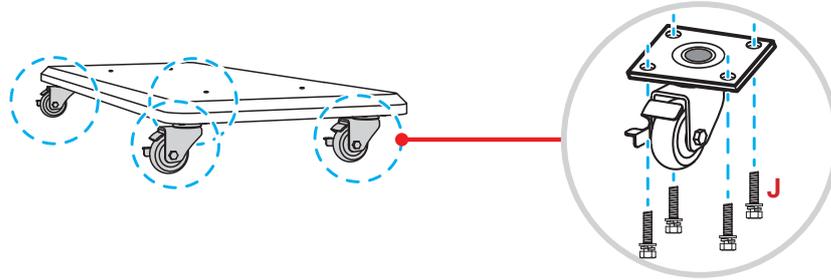
1. Install the dual mounting brackets on the rear of the IFP. Then secure the brackets with four screws (A).



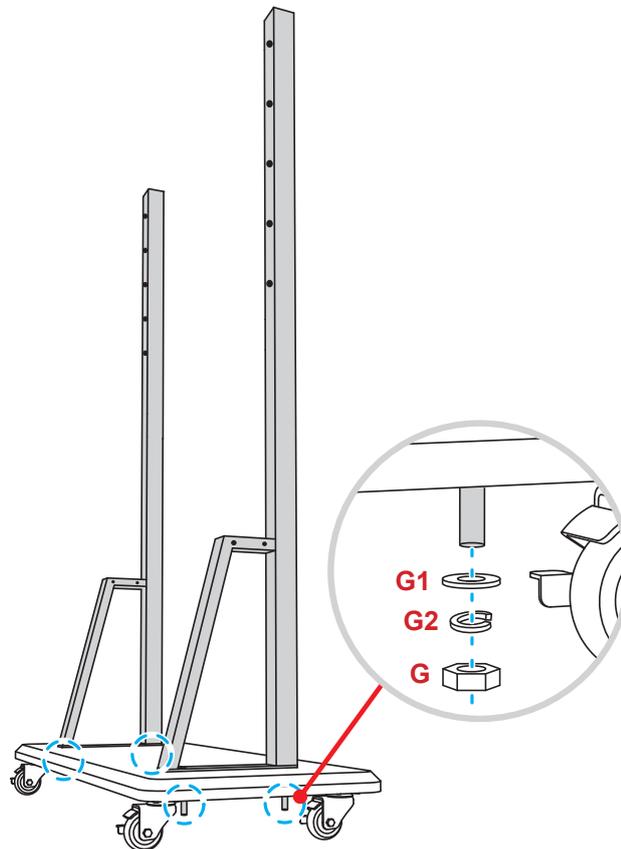
Note: Dual mounting brackets, wall mount, and screws (A) are included in the wall mount kit. Refer to “Wall Mounting Installation” on page 14.

SETUP AND INSTALLATION

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.

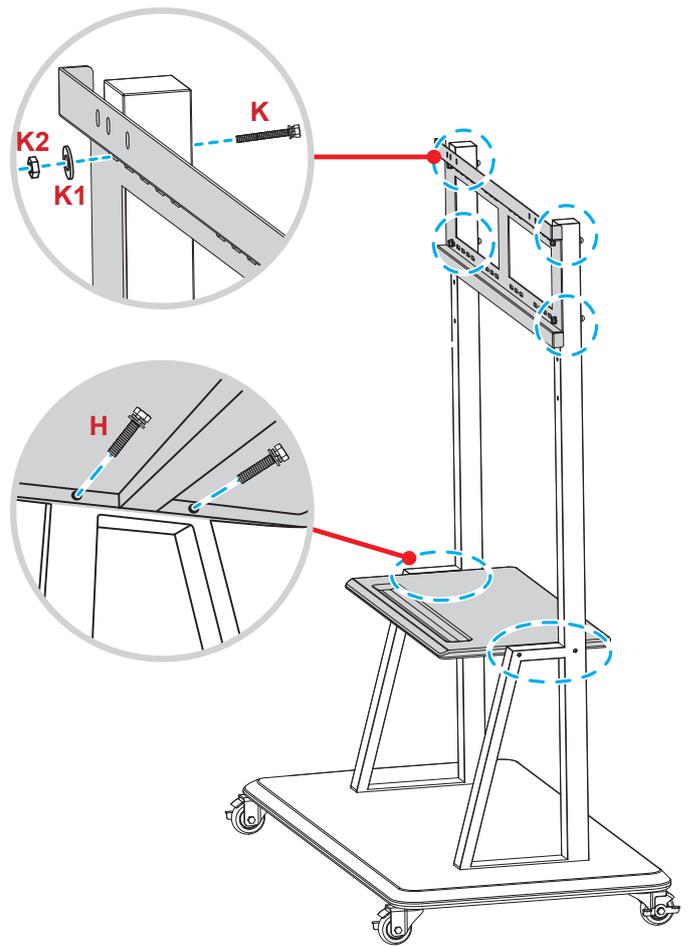


3. Place the stand base on the stable surface, then install the stand pole onto its slot and secure both standoffs with two nuts (**G**) through the washers (**G2** and **G1**).
Repeat the same procedure to install another stand pole.

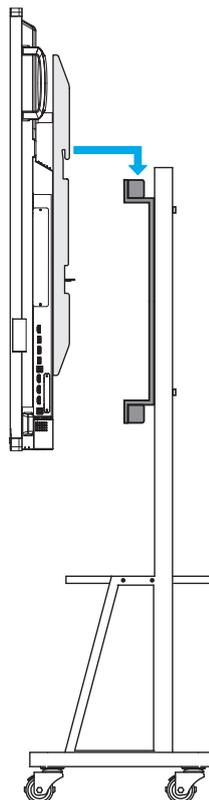


SETUP AND INSTALLATION

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.
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.



SETUP AND INSTALLATION

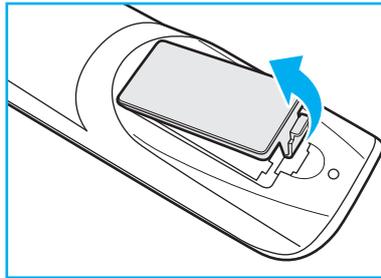
Using the Remote Control

Installing/Replacing the Remote Control Batteries

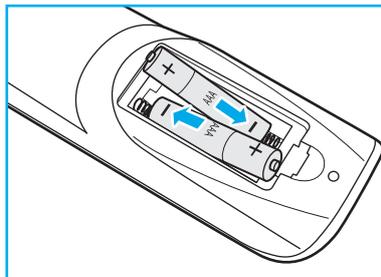
Two AAA size batteries are supplied for the remote control.

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

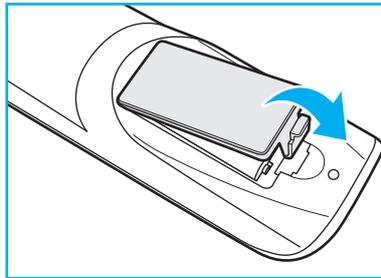
1. Remove the cover of the battery compartment.



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



3. Replace the cover.



CAUTION

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

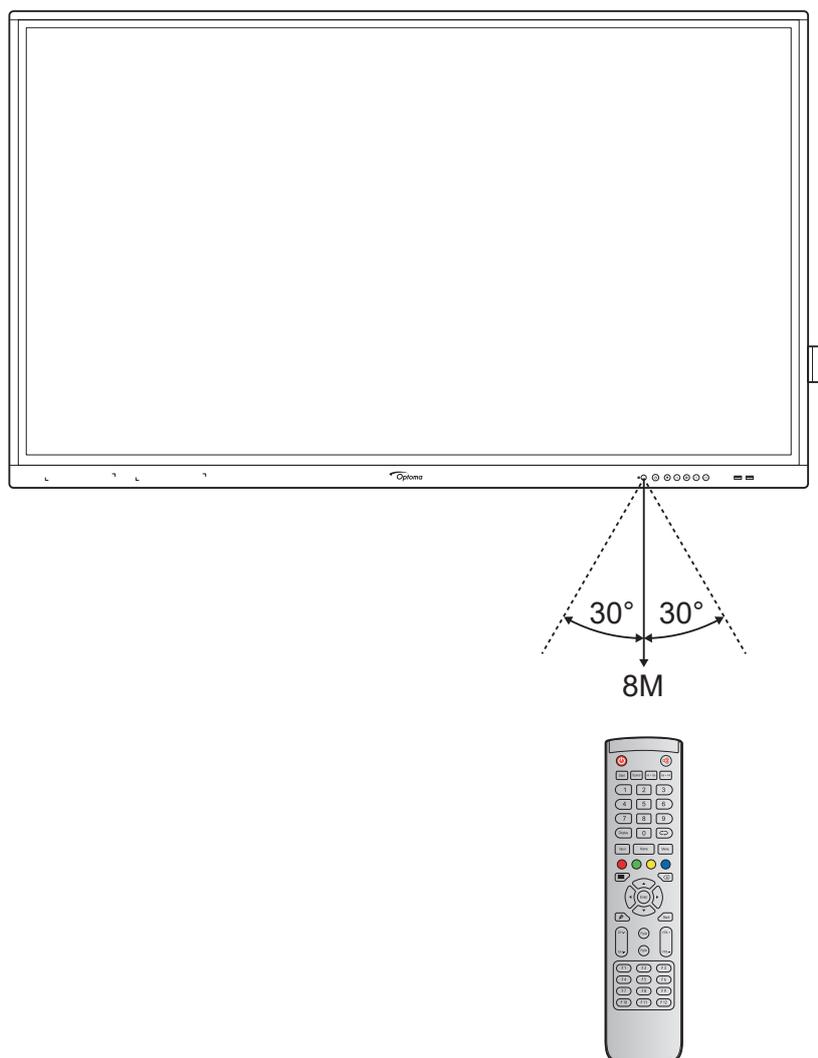
- Do not mix batteries of different types. Different types of batteries have different characteristics.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
- Remove batteries as soon as they are depleted. Chemicals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

SETUP AND INSTALLATION

Remote Control Operating Range

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

- Make sure that there are no obstacles between the remote control and the IR sensor window on the IFP that might obstruct the infra-red beam.
- Make sure the IR transmitter of the remote control is not being used in sunlight or fluorescent lamps directly.
- If the remote control is closed to Inverter-Type fluorescent lamps, it might become ineffective from time to time.
- If the remote control and the IFP are within a very short distance, the remote control might become ineffective.



SETUP AND INSTALLATION

Connections

Connecting to Power

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

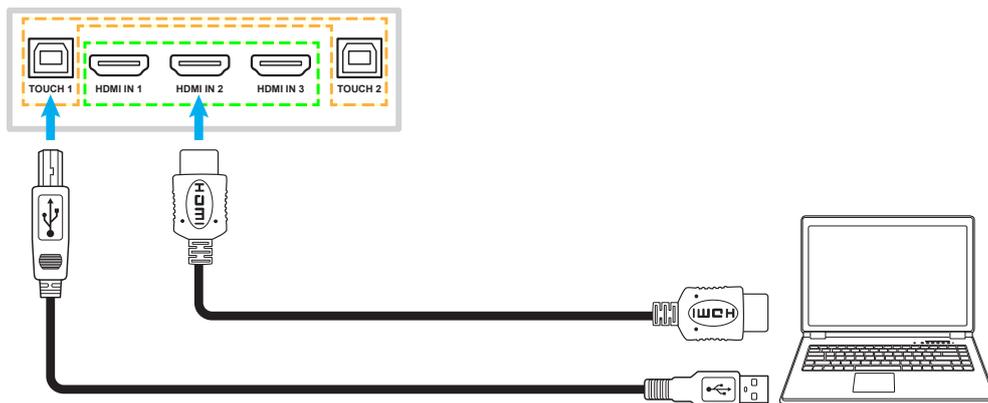


Connecting External Devices

IMPORTANT! To use the touch screen function, make sure to connect one end of the USB cable to the USB B 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.



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

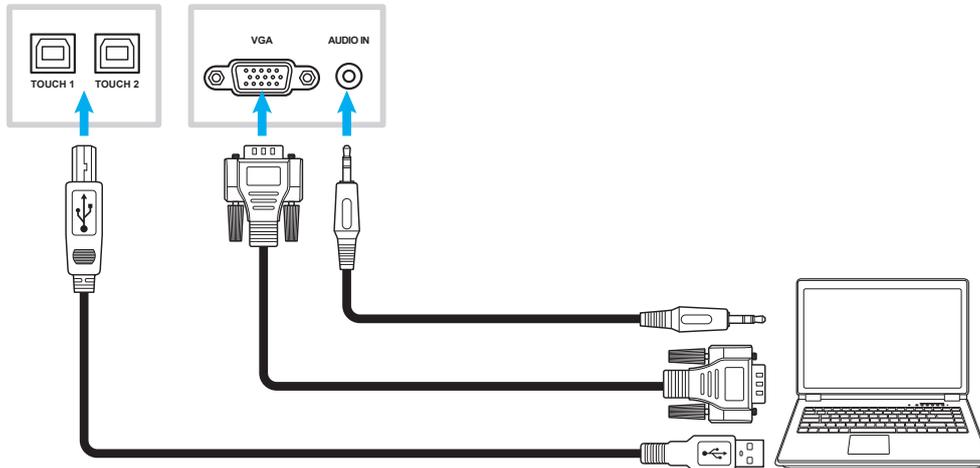


SETUP AND INSTALLATION

VGA input connection

Connect your computer to the IFP using a VGA cable.

Note: For audio input, connect one end of an audio cable to the Audio-in jack on the IFP and the other end of the cable to the audio jack on your computer.



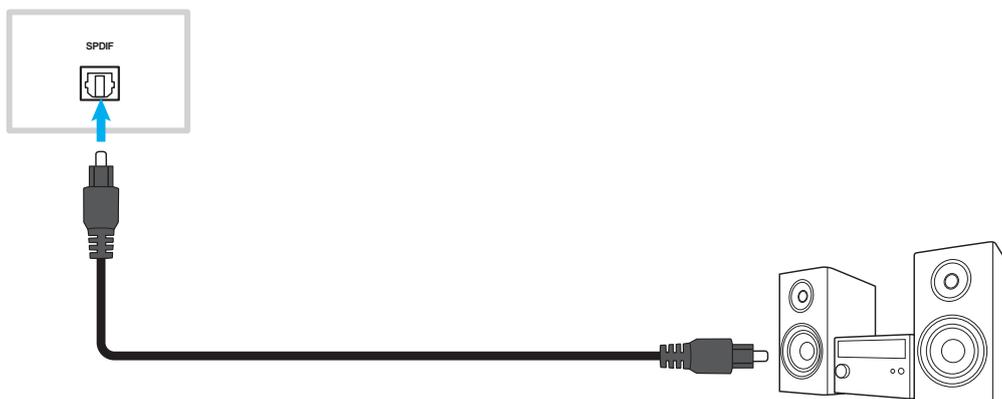
Audio output connection

Connect your external speakers to the Audio-out port on the IFP.



SPDIF connection

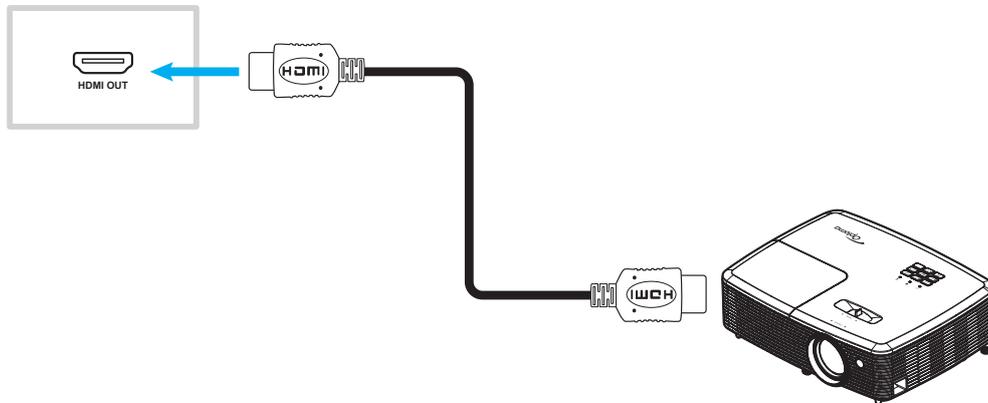
Connect your audio equipment to the IFP using a SPDIF cable.



SETUP AND INSTALLATION

HDMI output connection

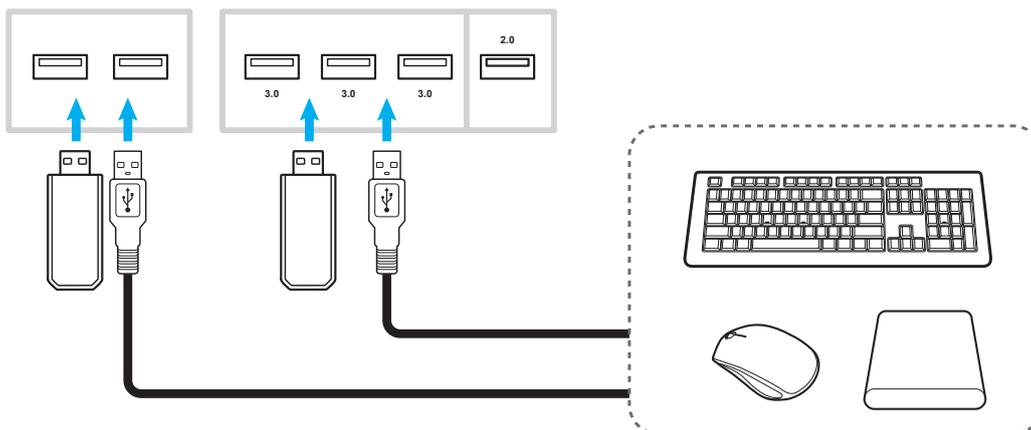
Connect your projector to the HDMI out port on the IFP.



USB connection

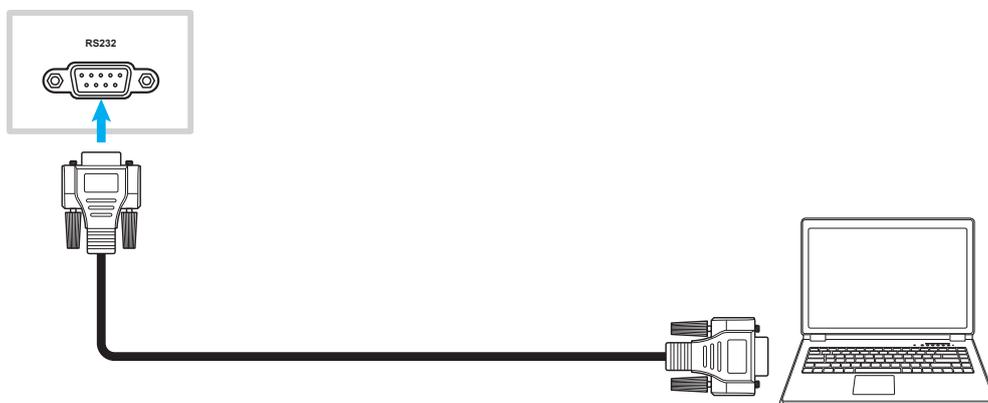
Connect your USB peripheral device to the IFP using a USB cable.

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

LAN connection

Connect your router to the IFP using an Ethernet cable.



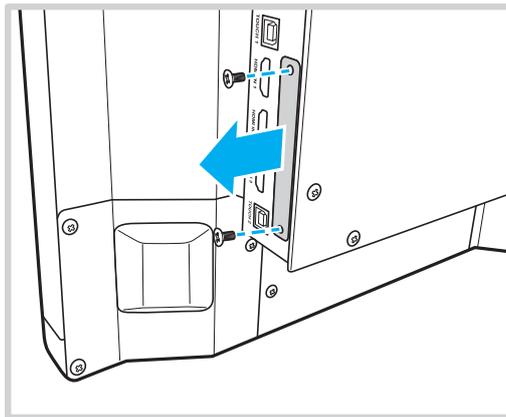
Note: To configure network settings, refer to “Configuring Network Settings” on page 41.

Wi-Fi connection

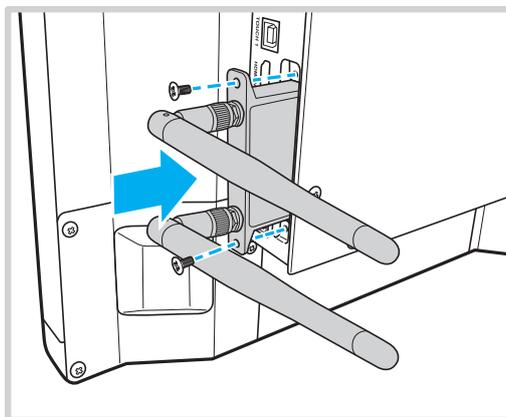
For Wi-Fi connection, you need to install a Wi-Fi dongle to the Wi-Fi slot on the side of the IFP. Wi-Fi dongle can receive the signal in an area where there is a Wi-Fi network.

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

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



3. Insert the Wi-Fi dongle to the Wi-Fi slot on the IFP.
4. Secure the Wi-Fi dongle to the IFP with two (2) screws.



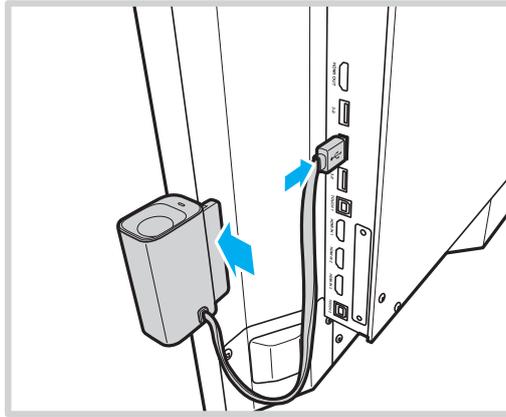
Note: To configure Wi-Fi settings, refer to “Configuring Network Settings” on page 41.

SETUP AND INSTALLATION

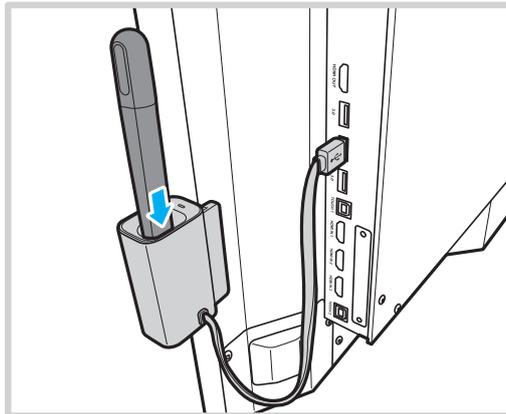
Touch pen holder connection

To install a holder for the touch pen, complete the following steps:

1. Connect the USB cable of the touch pen holder to an available USB port on the IFP.
2. Attach the magnetic touch pen holder to the rear side of the screen.



3. Insert the touch pen to its holder.



Note: Removing the touch pen from its holder launches the **Team Share** app. For more information on the app, refer to “Team Share App” on page 53.

Note:

- If IFP screen is in launcher, removing the touch pen from its holder launches the **Team Share** app.
- If IFP screen is on other page or other input source, removing the touch pen from its holder launches the annotation app. For more information on **Team Share**, refer to “Team Share App” on page 53 and for more information on annotation app, refer to “Annotation App” on page 58.

USING THE DEVICE

Turning the Power On/Off

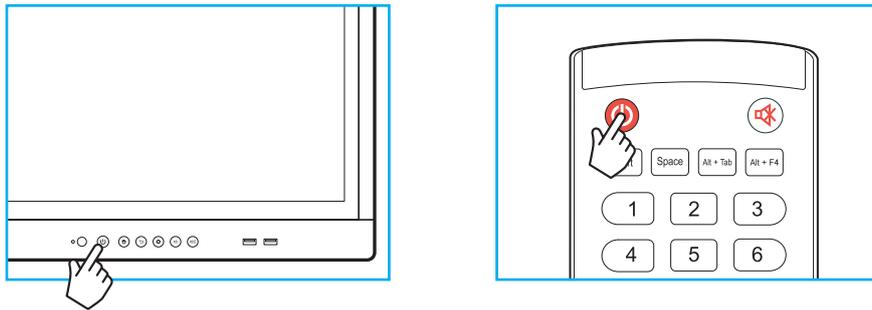
Powering on

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



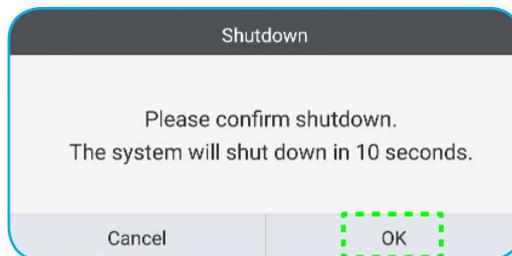
Press the **Power** button to turn on the IFP. The LED indicator light turns blue, indicating it is ready to use.

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



Powering off

Press the **Power** button for 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:

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

USING THE DEVICE

Setup Wizard

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

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

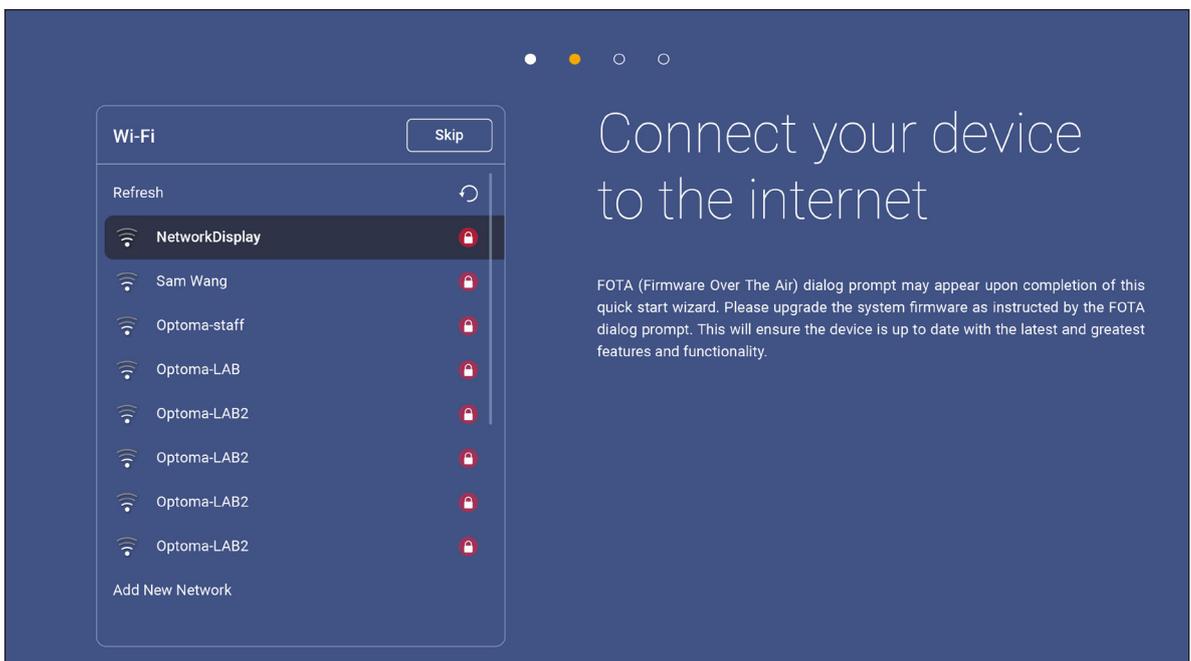
1. Select the language for the on-screen display (OSD) menu.



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

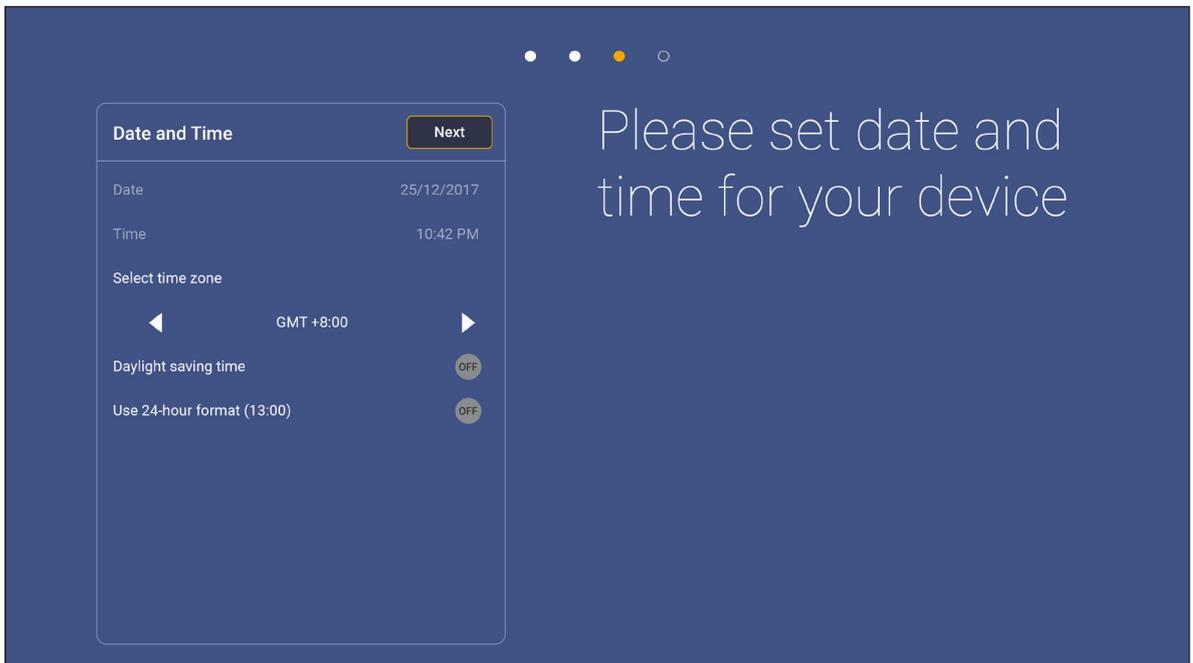
IMPORTANT!

- To connect to a wireless network, make sure the Wi-Fi dongle is properly plugged into the Wi-Fi dongle slot. Refer to page 26.
- If you are connecting to a secure network, you will need to enter the password when connecting for the first time only.

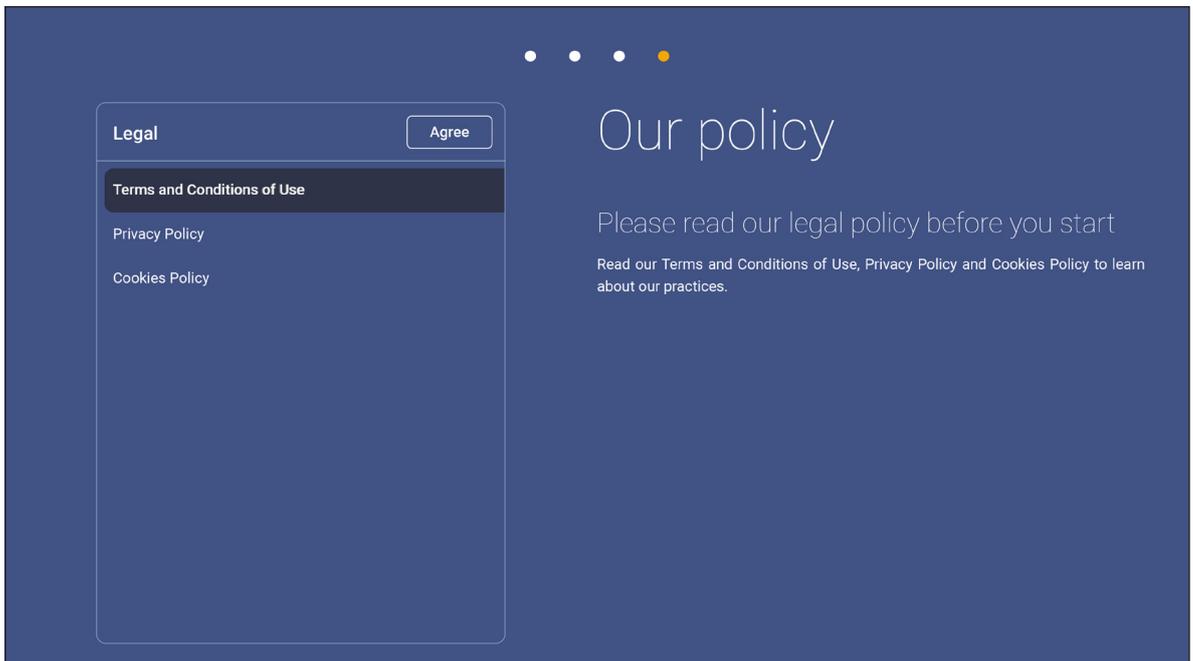


USING THE DEVICE

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



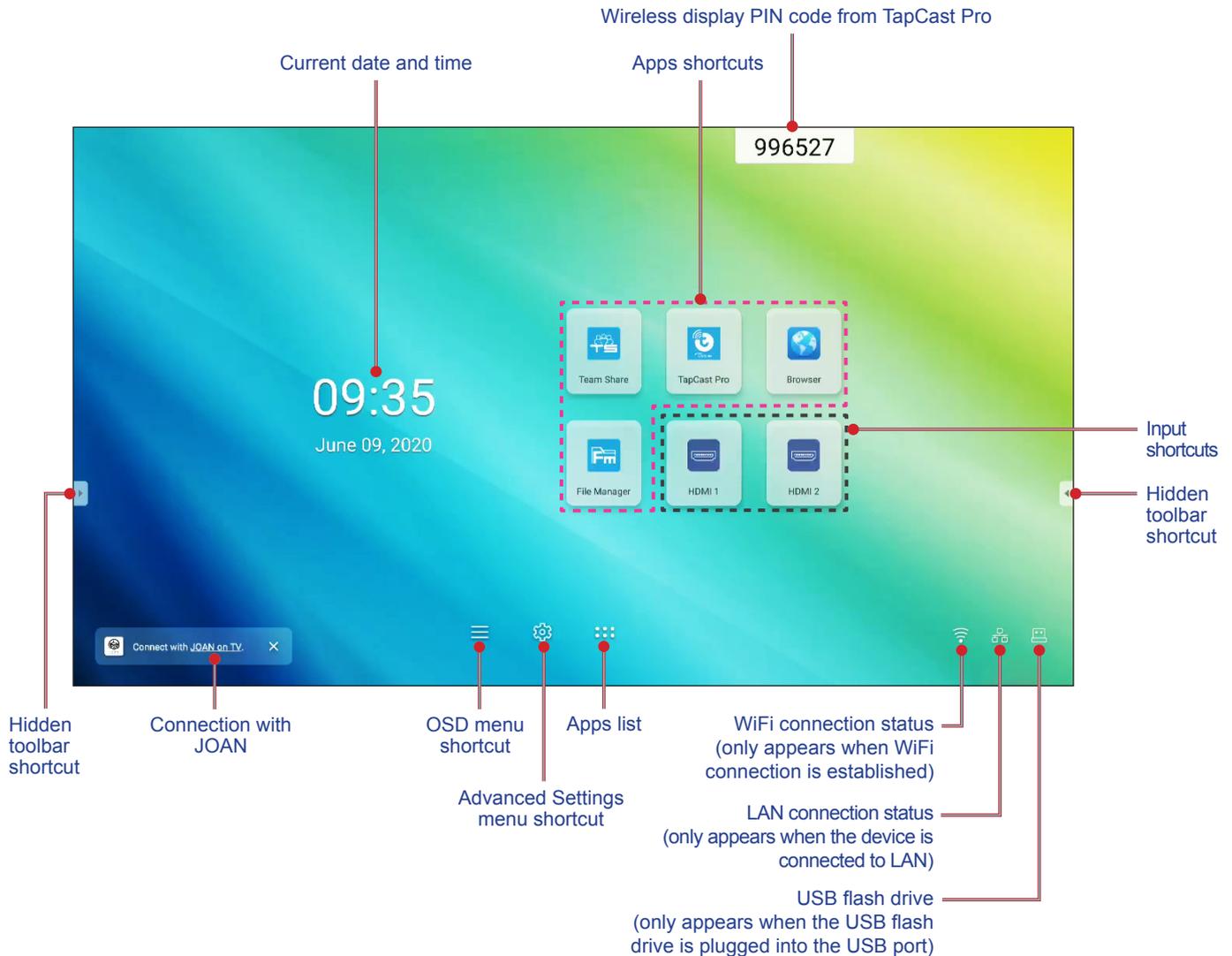
4. Read Optoma's legal policies, including Terms and Conditions of Use, Privacy Policy, and Cookie Policy. Tap **Agree** to complete setup. The IFP is now ready to use.



BASIC OPERATIONS

Home Screen Overview

The Home screen is displayed every time you start the IFP.



To navigate the Home screen, you can do the following:

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

Note:

- Unless otherwise specified, this section describes IFP operations using the touch gesture.
- As an alternative, you can also use the remote control to operate the IFP.

BASIC OPERATIONS

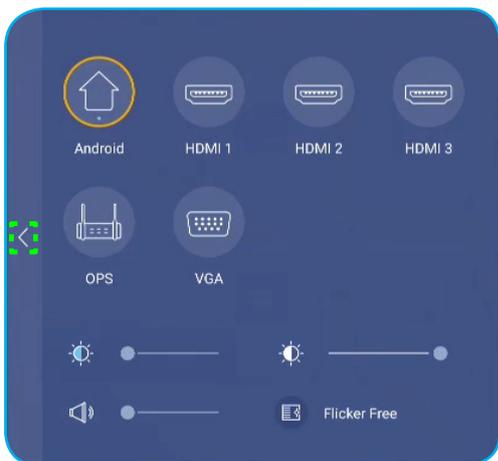
Setup Menu

On any screen, drag the bottom of the screen upwards to open the **Setup** menu.



The **Setup** menu is part of the **OSD** menu.

To view other **OSD** menu items, tap  on the left side of the **Setup** menu.



Setup menu



OSD menu

BASIC OPERATIONS

Selecting an Input Source

In the **Setup** menu, the available input source is indicated by the ● icon. To change the input source, simply tap the desired input source.



Note:

- For more information about device connections, 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.

Adjusting the Backlight Level

In the **Setup** menu, drag the slider bar to the right/left to adjust the backlight level.

Note: For comfortable viewing experience, you can enable Flicker Free function. Flicker Free option is visible on the screen only if the backlight level is set to 100%.

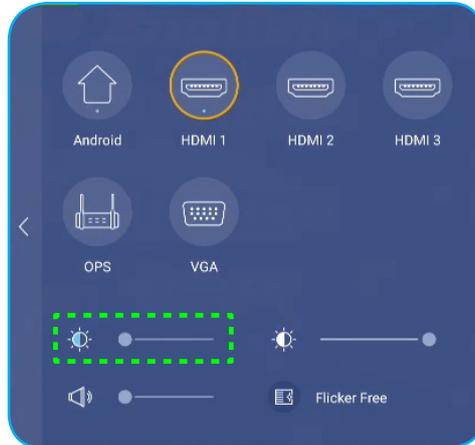


BASIC OPERATIONS

Activating the Low Blue Light Function

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

In the **Setup** menu, drag the slider bar to the right/left to adjust the low blue light level.

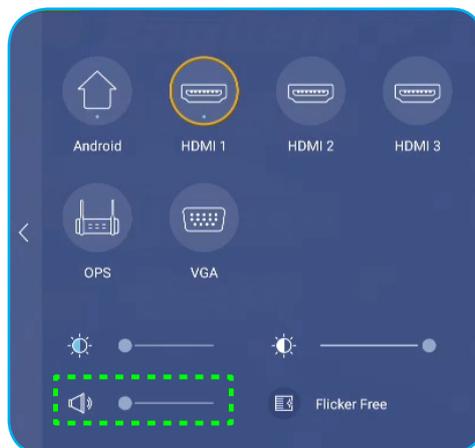


IMPORTANT! For protecting your eyes against prolonged display use, we highly recommend you to do the following:

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

Adjusting the Volume Level

In the **Setup** menu, drag the slider bar to the right/left to adjust the volume level.

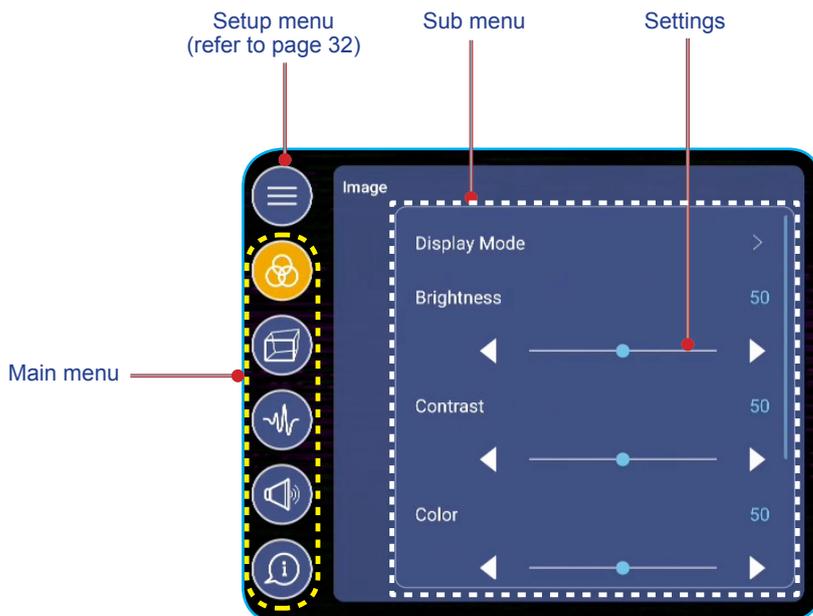


BASIC OPERATIONS

Configuring OSD Settings

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

- Drag the bottom of the screen upwards, then tap  on the left side of the **Setup** menu. For more information, refer to “Setup Menu” on page 32.
- Press the **Menu** button on the remote control.
- Tap  on the Home screen.

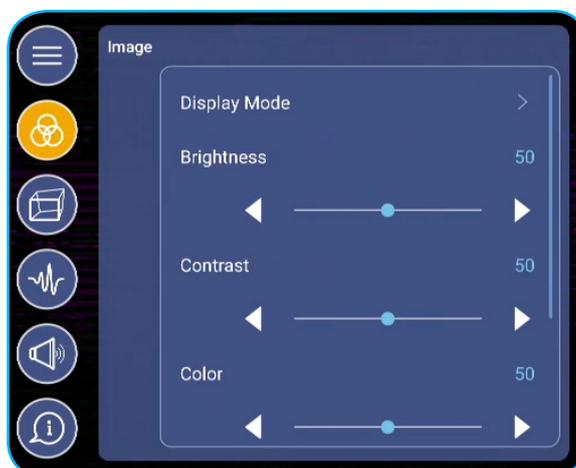


Note:

- To configure **OSD** menu settings, simply touch the desired item on the screen and use screen controls to adjust the value or set the setting.
- To move from sub menu to the main menu, tap **Back**.
- To close the **OSD** menu, tap anywhere on the screen outside the **OSD** menu.

Configuring Image Settings

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



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

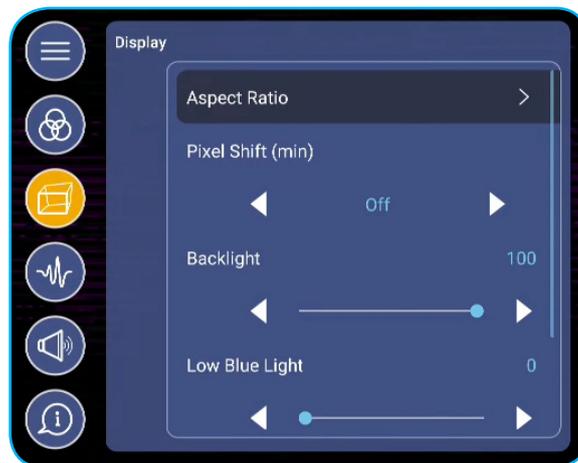
BASIC OPERATIONS

Note:

- *USB playback function in Android source also supports HDR content. If you play an HDR video from USB disk, Display Mode will switch to HDR automatically. HDR is not supported with other input sources, such as HDMI, VGA, and OPS.*
 - *Image setting can only be adjusted in HDMI, VGA, and OPS 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 brightness, contrast, color, or color temperature according to your preference. Select **Reset** to reset all image settings to their defaults.*
- Tap ◀▶ on **Brightness** item to adjust the screen brightness level.
- Note:** *Brightness level, Contrast level, Color level and color temperature can be adjusted only if the display mode is set to **User**. In other display modes this parameter is preset and cannot be adjusted.*
- Tap ◀▶ on **Contrast** item to adjust the screen contrast level.
 - Tap ◀▶ on **Color** item to adjust the screen color level from black and white to fully saturated color.
 - Tap ◀▶ on **Color Temperature** item to select one of the available options: Standard, Warm, or Cold.
 - Tap **Reset** to reset all image settings to their defaults.

Configuring Display Settings

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

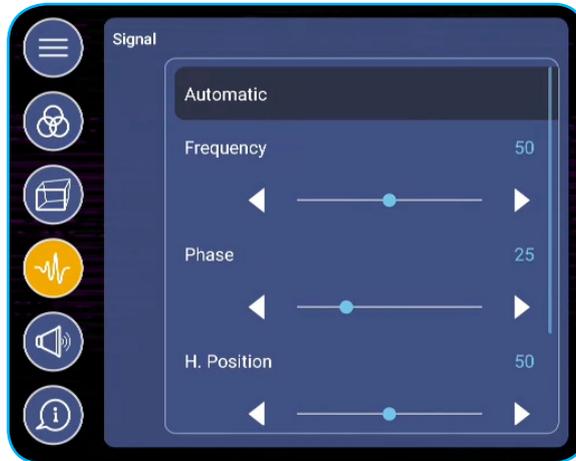


- Tap **Aspect Ratio** to select one of the available options: 16:9, 4:3, or PTP (Pixel To Pixel).
- Note:** *For 4K input, aspect ratio will be locked on PTP. For non-4K input, PTP will be grayed out and user can select only 4:3 or 16:9 as aspect ratio.*
- Tap ◀▶ on **Pixel Shift (min)** item to select one of the available options: Off, 2, 3, 5, 30, or 60.
- Note:** *Pixel Shift (min) feature helps to prevent image retention.*
- Tap ◀▶ on **Backlight** item to adjust the backlight level.
- Note:** *Backlight can be adjusted also in the **Setup** menu. Refer to page 33.*
- Tap ◀▶ on **Low Blue Light** item to adjust the blue light level.
- Note:** *Low Blue Light can be adjusted also in the **Setup** menu. Refer to “Activating the Low Blue Light Function” on page 34.*
- Tap ◀▶ on **Dynamic Black** item to select one of the available options: Off, Based on Content, 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.*

BASIC OPERATIONS

Configuring Signal Settings (for VGA input only)

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



- Tap **Automatic** to automatically adjust the image to its optimized frequency, phase, and position.
- Tap ◀▶ on **Frequency** item to adjust the vertical noise of the image.
- Tap ◀▶ on **Phase** item to adjust the horizontal noise of the image.
- Tap ◀▶ on **H. Position** item to adjust image horizontal position manually.
- Tap ◀▶ on **V. Position** item to adjust image vertical position manually.

Configuring Audio Settings

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



- Tap ◀▶ on **Sound Effect** item to 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  button on the remote control.
- Tap ◀▶ on **Volume** item to adjust the volume level.
- Tap ◀▶ on **Bass** item 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.

BASIC OPERATIONS

- Tap ◀▶ on **Treble** item to adjust the treble level that is suitable for your room.
- Tap ◀▶ on **Balance** item to adjust the sound balance level that is suitable for your room.

Viewing Device Information

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



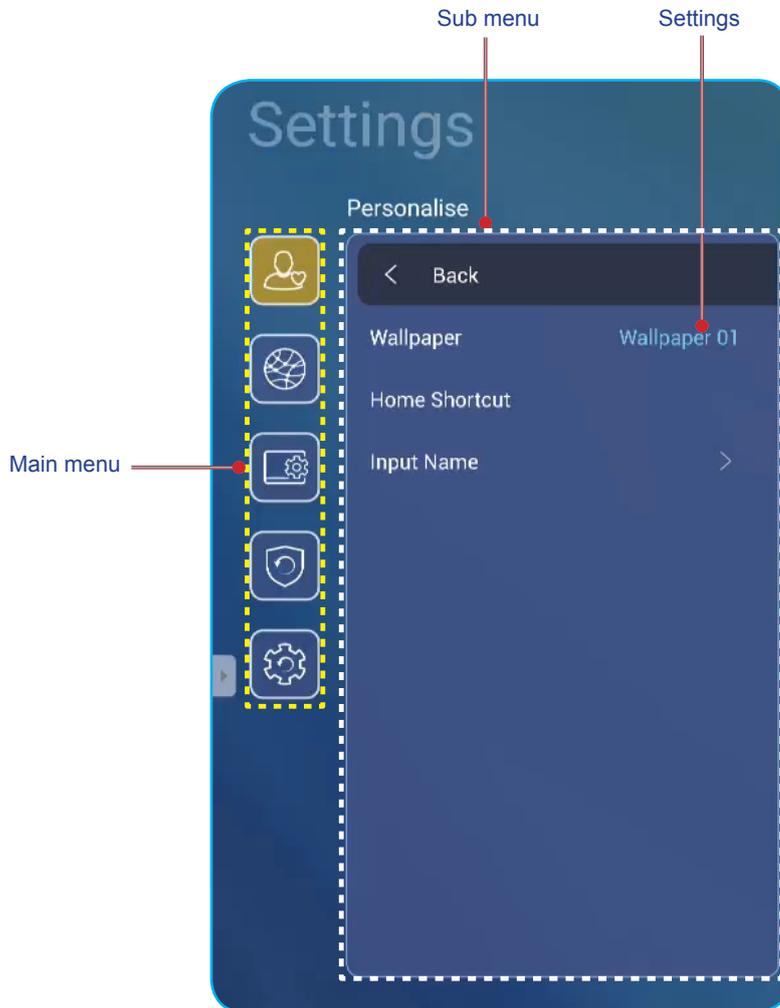
- Tap **Display** to view display mode, current input source, resolution, color depth, and color format.
- Tap **About Device** to view regulatory model name, serial number, firmware version, and Android version.

BASIC OPERATIONS

Configuring Advanced Settings

To open the **Advanced Settings** menu, tap  on the Home screen.

Note: *Advanced settings can be modified only in Android mode.*



Note:

- To configure **Advanced Settings**, simply touch the desired item on the screen and use screen controls to adjust the value or set the setting.
- To move from sub menu to the main menu, tap **Back**.
- To close the **Advanced Settings** menu, tap anywhere on the screen outside the **Advanced Settings** menu.

BASIC OPERATIONS

Personalizing the System

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



- Tap **Wallpaper** and then select one of the available image options among default wallpapers or from an image gallery (**Choose from files**). To confirm the wallpaper, tap **Save** at the prompt.



- Tap **Home Shortcut** to customize Home screen shortcuts. Tap on the shortcut you wish to change. Then select a new shortcut and confirm your selection by tapping **Done** at the prompt.



BASIC OPERATIONS

- Tap **Input Name** to rename 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.



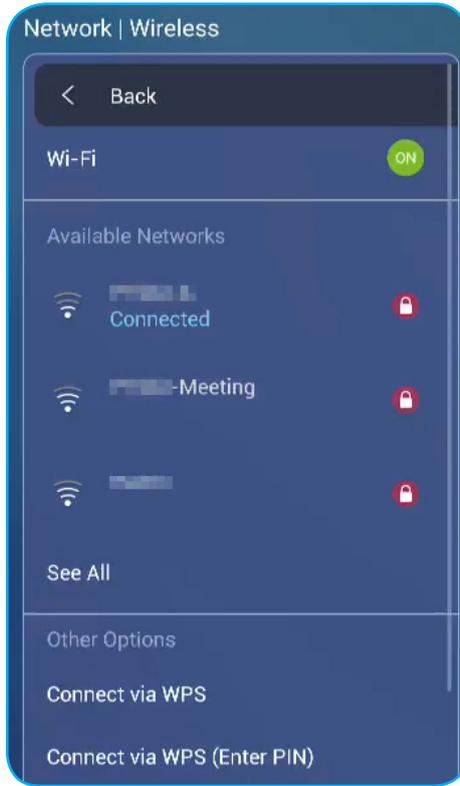
Configuring Network Settings

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



- Tap **Wireless** to connect the IFP to Wi-Fi network and view current connection status. Make sure Wi-Fi function is enabled. In **Available Networks** list, tap on your preferred Wi-Fi network. Provide an access password if needed.
IMPORTANT! *To connect to a wireless network, make sure the Wi-Fi dongle is properly installed in the Wi-Fi dongle slot. For more information, refer to page 26.*

BASIC OPERATIONS



Note: In **Other Options** list, you can configure additional wireless network settings, such as connecting via WPS, adding a new network, and configuring portable hotspot settings.

- Tap **Ethernet** to configure LAN settings and view the current connection status. Enter proxy settings and IP settings (DHCP or static). Tap **Reset** to reset all network settings to their defaults.
IMPORTANT! To connect to a wired network, make sure the IFP is connected to LAN. For more information, refer to page 26.



BASIC OPERATIONS

- Tap **Bluetooth** to configure Bluetooth settings and access other Bluetooth devices. Make sure Bluetooth function is enabled. Tap any of the following:
 - **Device Name** to change the device name. To confirm, tap **OK** at the prompt.
 - **Scan again** to detect nearby Bluetooth devices. The detected Bluetooth devices are listed under Available Devices and paired devices are listed under Paired Devices. To connect to a Bluetooth device, tap on the MAC address of the device in Available Devices list. Then follow on-screen instructions to perform pairing.



Configuring Device Settings

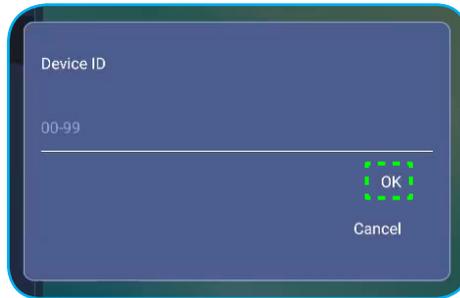
In **Advanced Settings** menu, tap  to open the **Device** menu, then complete the following steps:



- Tap **HDMI out Encryption Setting** to enable or disable encrypting HDMI out signal with HDCP.
Note: *If the connected monitor does not support HDCP, disable HDMI out encryption function.*

BASIC OPERATIONS

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

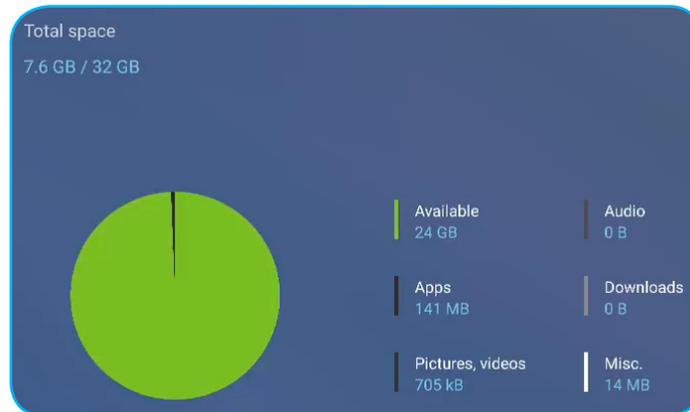


Note: Device ID is related to **Optoma ProService Device ID**.

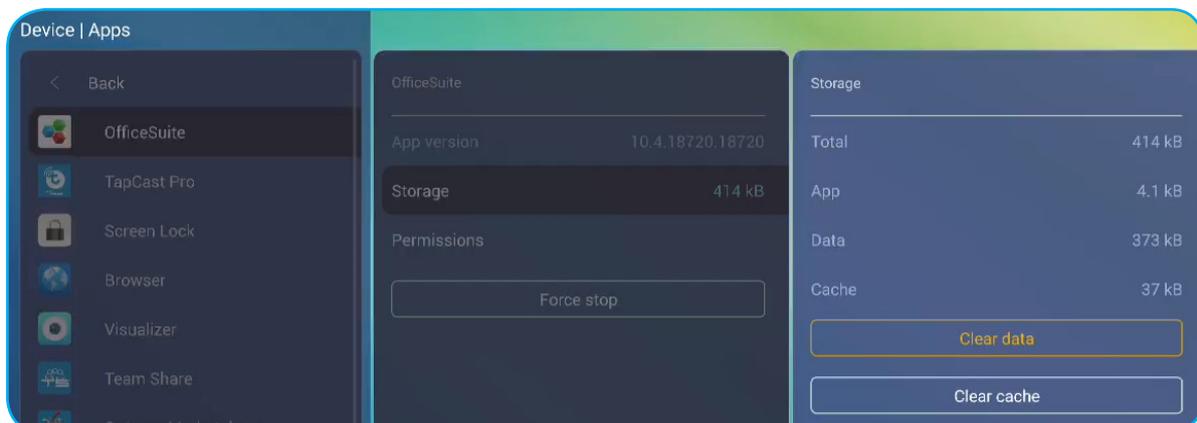
- Tap **SAMBA Service** to enable or disable SAMBA service and configure the related parameters.

Note: When enabled, you can share folders in IFPs to other devices under the same network. To download data in IFPs to PCs, you have to establish a connection through the IP address, then you can set a password for the account for security.

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



- Tap **Apps** to view apps information, clear apps data and cache, and force stop apps. Select an app in the list to view its version, clear its data (**Clear data**) and cache (**Clear cache**), and view permissions. To force stop the app, tap **Force stop**.

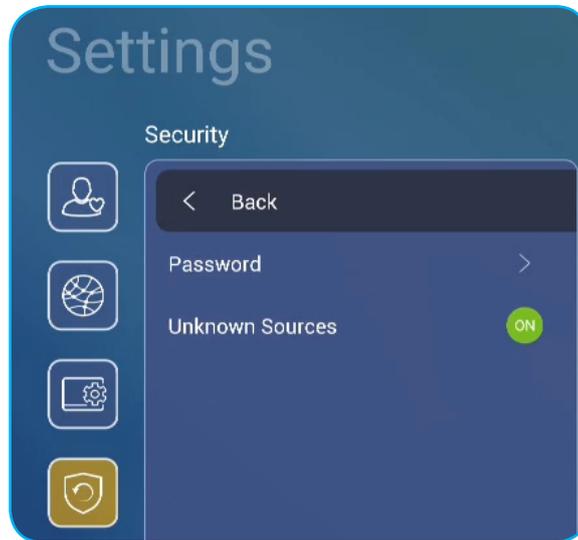


- Tap **Other Settings** to configure side toolbar, floating annotation toolbar, touch sound, and email settings. Tap any of the following:
 - ◀▶ on **Side Tool Bar Settings** item to select one of the available locations where the side toolbar is visible: All channel, only Android, or Disable
 - **Floating Point** to enable or disable floating annotation toolbar. For more information, refer to page 66.
 - **Touch Sound** to enable or disable audio feedback when you tap items on the screen.
 - **Email** to configure email settings.

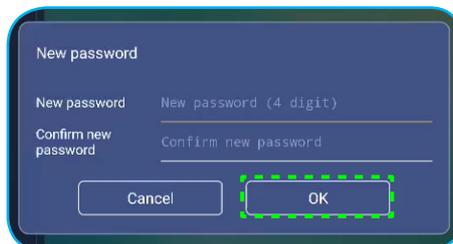
BASIC OPERATIONS

Configuring Security Settings

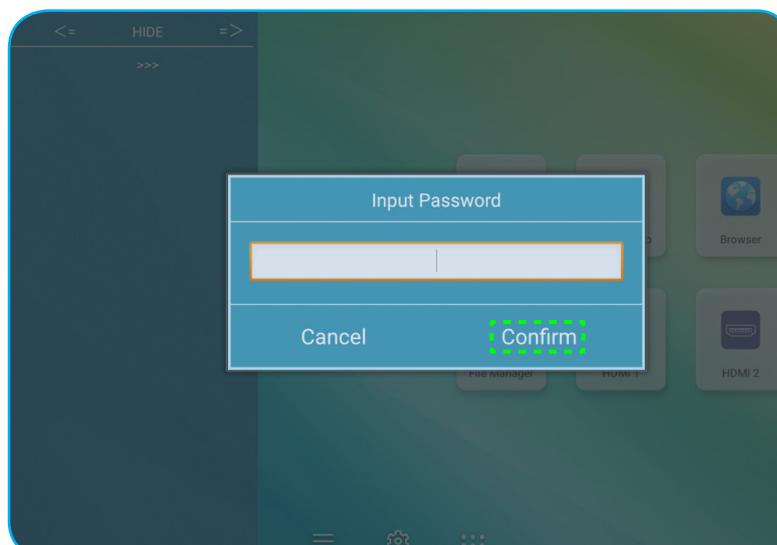
In the **Advanced Settings** menu, tap  to open the **Security** menu, then complete the following steps:



- Tap **Password** to set screen lock password or USB/Wi-Fi access password. To set passwords, do any of the following:
 - Tap **Screen Lock Password Settings** and enter a new password twice at the prompt. To confirm, tap **OK**.
- Note:** To remove the screen lock password, tap **Clear Screen Lock Password** (visible only after password is set).

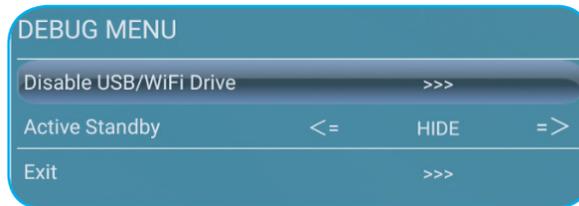


- To enable or disable USB/Wi-Fi drive and set USB/Wi-Fi access password, do the following:
 - a) Press **Input + 5 + 9 + 8 + 0** buttons on the remote control and then enter the **DEBUG MENU** access password at the **Input Password** prompt. When done, tap **Confirm**.

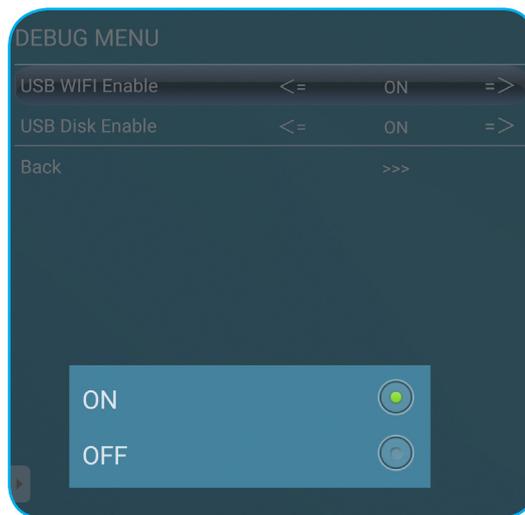


BASIC OPERATIONS

After entering the correct password, the **DEBUG MENU** opens.



b) Tap >>> next to **Disable USB/WIFI Drive** to enable or disable the respective feature. To enable, select **ON** at the prompt or to disable, select **OFF**.



If you selected **ON**, the **Advanced Settings > Security > Password** menu opens automatically with **USB/Wi-Fi Access Password** option visible.



c) Tap **USB/Wi-Fi Access Password** and enter a new password twice at the prompt. To confirm, tap **OK**.

Note: To remove the access password, tap **Clear USB/Wi-Fi Access Password** (visible only after password is set).

- Tap **Unknown Sources** to enable or disable installing third party applications.

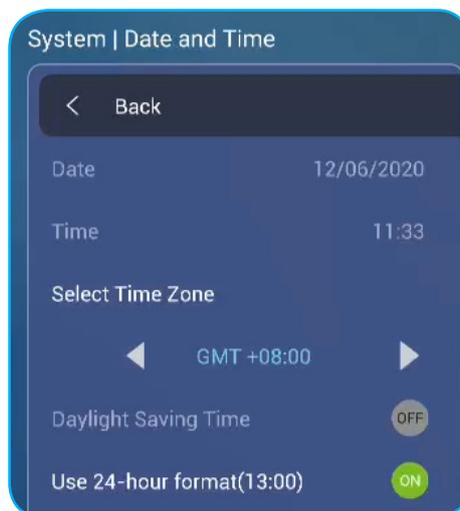
BASIC OPERATIONS

Configuring System Settings

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

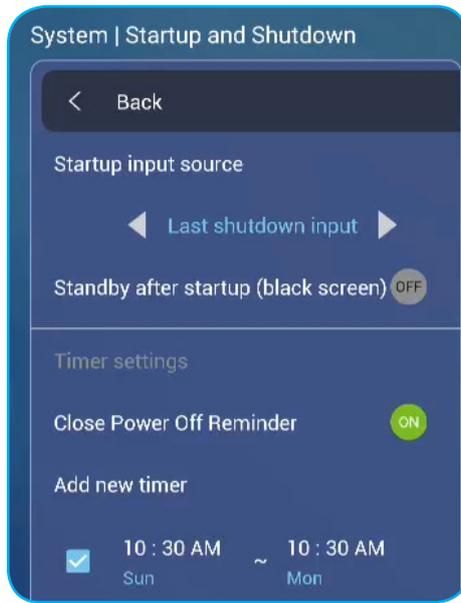


- Tap **Date and Time** to configure date and time related settings. Tap any of the following:

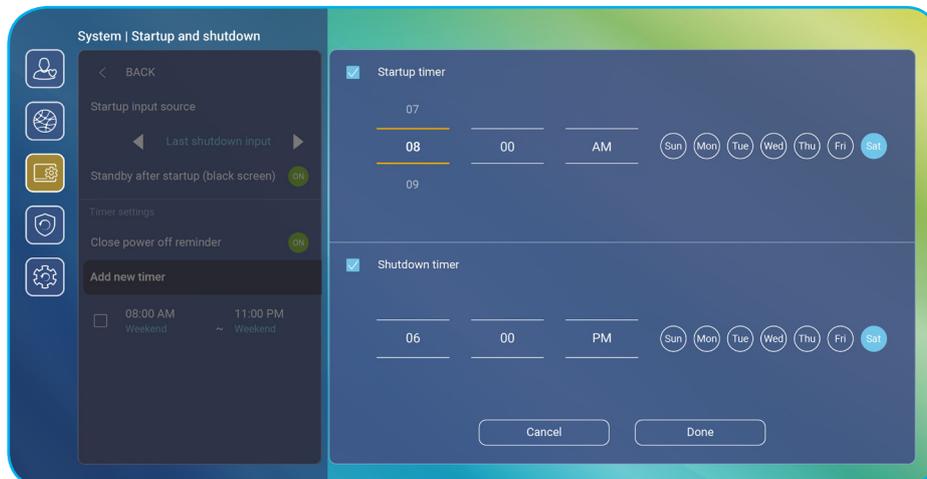


- **Select Time Zone** to select time zone in your area.
- **Daylight Saving Time** to enable or disable daylight saving time (if applicable).
- **Use 24-hour format(13:00)** to enable or disable displaying time in 24-hour format.
- Tap **Language** to select one of the available language options: English, French, Spanish, Traditional Chinese, Simplified Chinese, Portuguese, German, Dutch, Polish, Russian, Czech, Danish, Swedish, Italian, Turkish, Arabic, and Romanian.

BASIC OPERATIONS



- 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:
 - ◀▶ on **Startup input source** item to select one of the available startup input options: Last shutdown input, Android, OPS, HDMI 1, HDMI 2, HDMI 3, or VGA.
 - **Standby after startup (black screen)** to enable or disable standby after startup.
 - **Timer settings** > **Close Power Off Reminder** to enable or disable closing power off reminder when the IFP is scheduled to shut down.
 - **Timer settings** > **Add new timer** to set a startup and power off timer. To set up a schedule, do the following:
 - a) To enable startup timer and/or shutdown timer, check the checkbox next to **Startup timer** and **Shutdown timer** checkboxes.
 - b) Set time and select day(s) when you want to startup or shut down the IFP.
 - c) Tap **Done** to save the schedule.

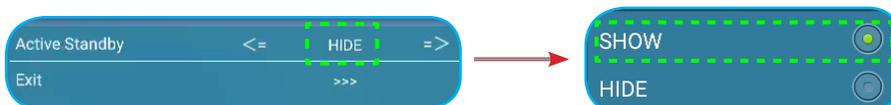


BASIC OPERATIONS

d) Check the checkbox next to the new schedule in **Advanced Settings > System > Startup and Shutdown** menu to activate the schedule.



- 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.
Note: *Signal power on can't work and will be gray out when Power Mode (Standby) is set to Active.*
 - **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.*
 - ◀▶ on **Auto Power Off (min.)** 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.*
- 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 ◀▶ on **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** buttons on the remote control. The **DEBUG MENU** opens.
 - b) Tap **HIDE** next to **Active Standby**. Select **SHOW** at the prompt.



c) Tap **Exit** to exit the **DEBUG MENU**.

Active option is visible in **Advanced Settings > System > Power Mode (Standby)** menu.



Note: *Optoma ProService and LAN control remote power on functions will only work when Power Mode (Standby) is set to Active.*

Note: *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 Optoma ProService. If you don't have remote power on requirement, we suggest using Eco. Standby mode to save more power.*

Note: *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.*

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



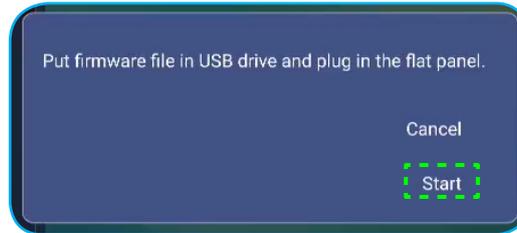
BASIC OPERATIONS

- **OTA (Over-The-Air) Software Upgrade** to enable or disable upgrading software over Internet. Tap **Auto** to enable the system to check for firmware upgrades automatically every time the IFP is powered on and connected to the Internet. If the **Auto** option is disabled, the system will not check for firmware upgrades automatically. To check for updates manually, tap **Update**.

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

- **USB Software Upgrade** to upgrade software 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 an available USB port on the IFP. Open **Advanced Settings > System > Update > USB Software Upgrade** and tap **Start** at the prompt.*



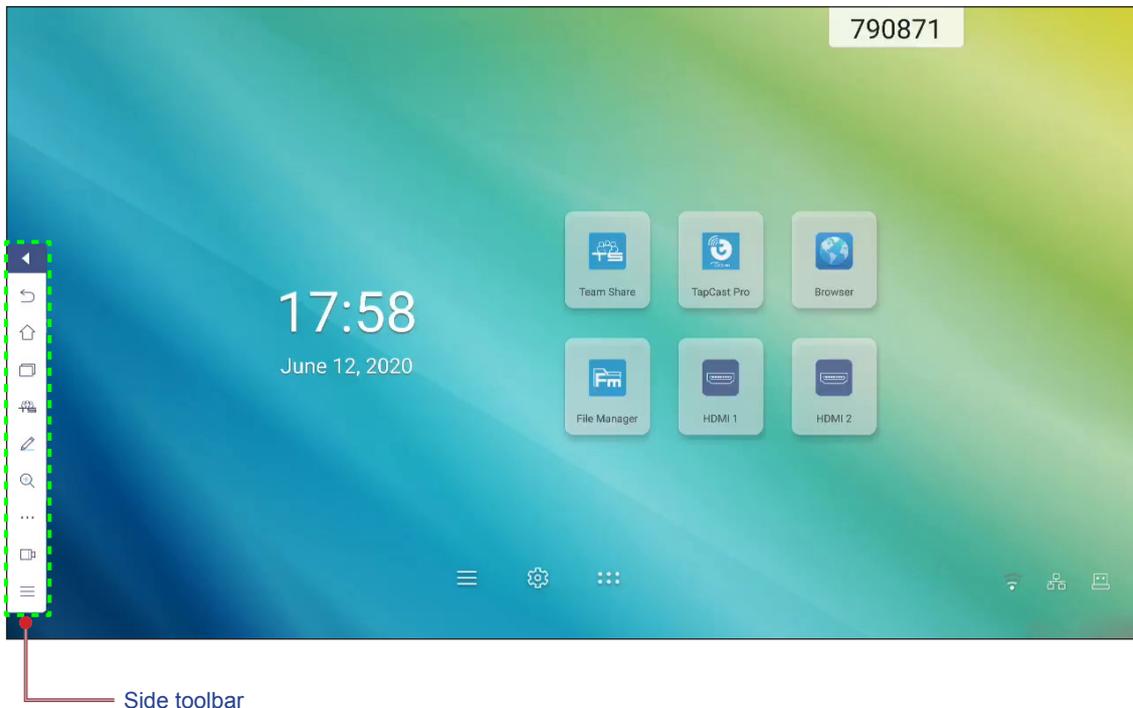
Note: *If you upgrade IFP's firmware from a USB storage, uncompress the upgrade file first and then copy the uncompressed file to the USB root directory. Make sure the USB flash disk is formatted as FAT32.*

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.*

BASIC OPERATIONS

Side Toolbar

Tap  or  to open the side toolbar. You can drag the panel to change its position on the screen.

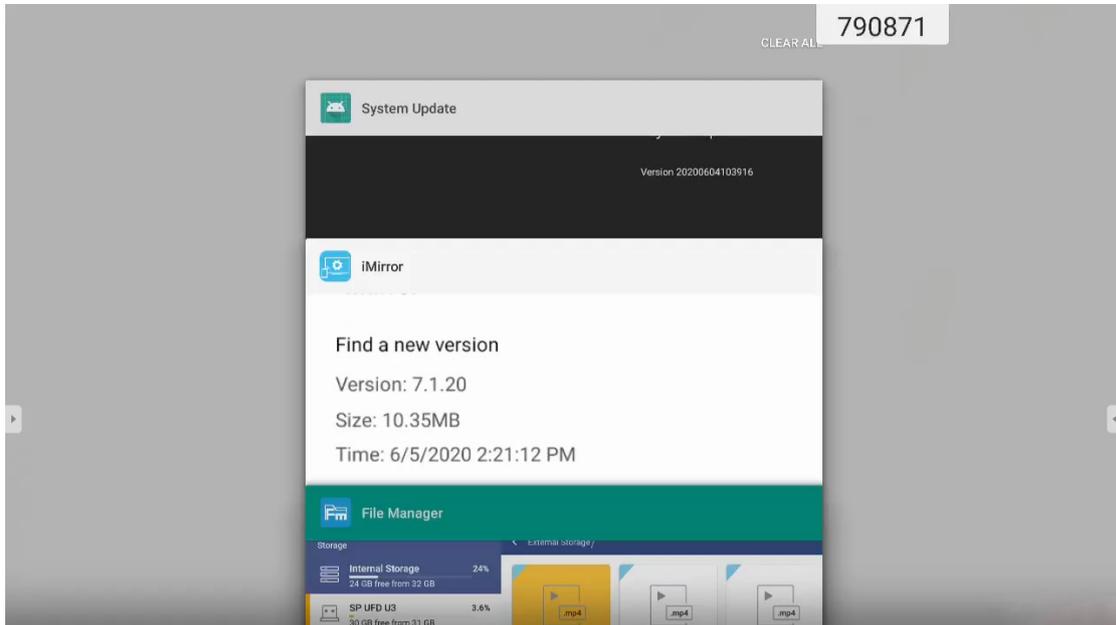


- To hide the toolbar, tap .
- To return to the previous screen, tap .
- To return to Home screen, tap .
- To view recent tasks, tap . For more information, refer to “Viewing Recent Tasks” on page 52.
- To open **Team Share** app, tap . For more information, refer to “Team Share App” on page 53.
- To open annotation app, tap . For more information, refer to “Annotation App” on page 58.
- To freeze the current screen, tap . For more information, refer to “Screen Freezing” on page 59.
- To open **SpotLight**, **CountDown**, **StopWatch**, and **AirShare** functions, tap . For more information, refer to “Other Utilities” on page 59.
- To open screen recording feature, tap . For more information, refer to “Screen Recorder” on page 66.
- To open **Setup** menu, tap . For more information, refer to “Setup Menu” on page 32.

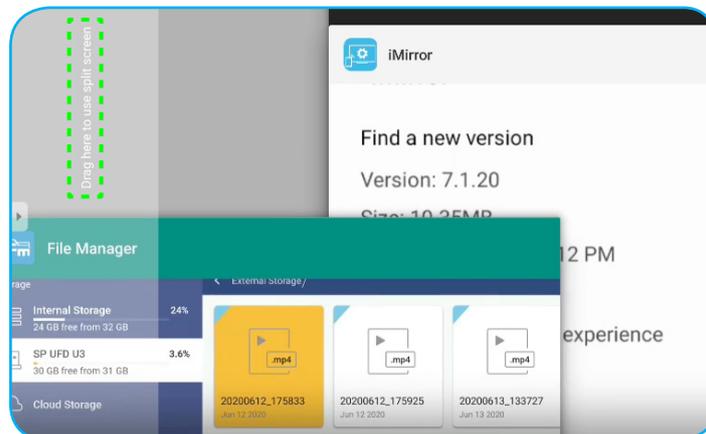
BASIC OPERATIONS

Viewing Recent Tasks

Tap  >  to view all of your recently used apps.



- Tap on the app you want to launch.
- To remove the app from the list, swipe it left or right.
- To clear the list, swipe the list downwards first (if necessary), then tap **CLEAR ALL**.
- To use split screen, tap and hold on the desired app for a few seconds, then drag the app window to the left or to the right of **Drag here to use split screen** column.



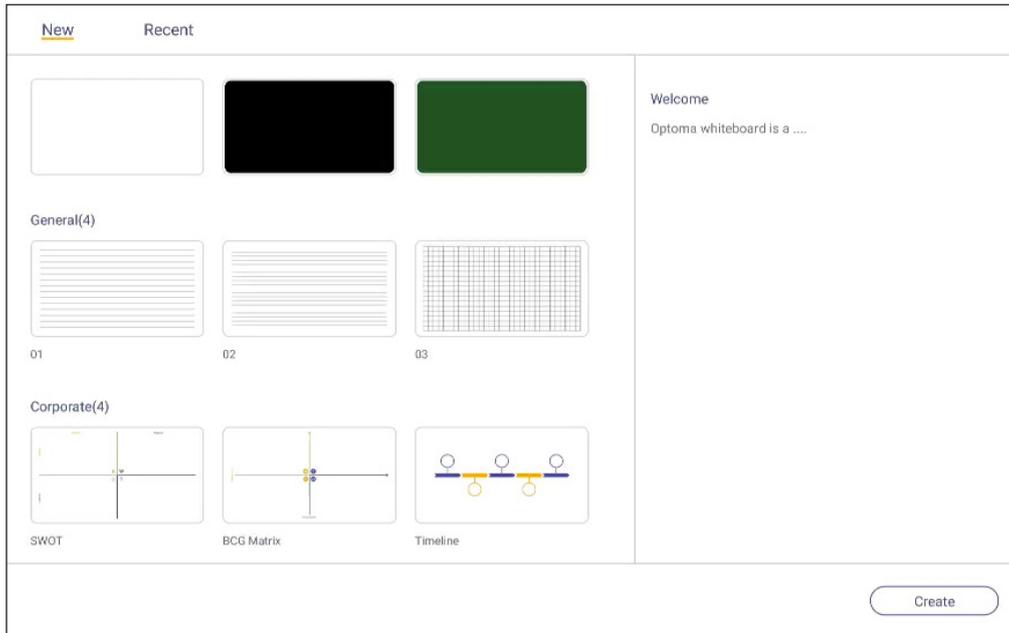
Note: You can also view recently used apps in floating annotation toolbar. Refer to “Floating Annotation Toolbar” on page 66.

BASIC OPERATIONS

Team Share App

Tap  >  to open **Team Share** app. You can write, scribble, or draw on the virtual whiteboard.

Note: If the IFP screen is under launcher, you can also open **Team Share** app by removing the touch pen from the touch pen holder.

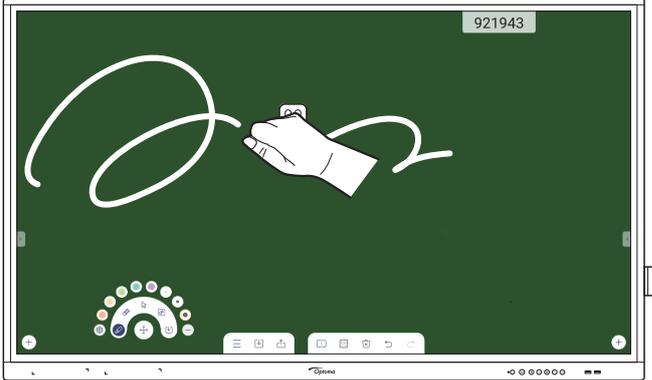


To start using the app, do the following:

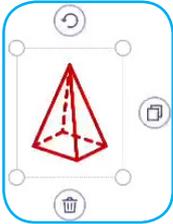
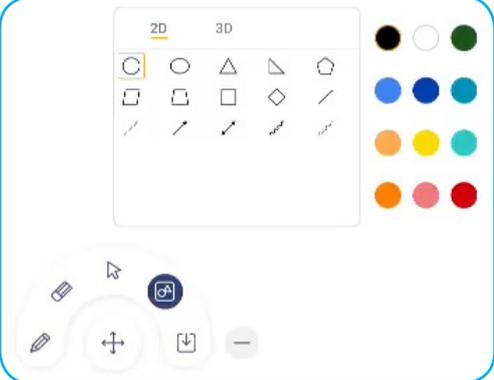
1. In **New** tab, select a background or template for your content.
Note: To open a previously saved project, tap **Recent**, select your desired project, and then tap **Open**.
2. Tap **Create** and use any of the activities described in the table below:

Item		Description
	Board relocation	Tap and drag or long-tap on the screen to move the board to your preferred location on the screen. 
	Close the board	Close the board. The board is minimized to a single icon. Tap the icon to reopen the board. For example,  :

BASIC OPERATIONS

Item	Description
 Pen	<p>Write or draw a freeform line. Tap to select the desired line thickness and color.</p>  <p>IMPORTANT! Avoid damaging the virtual whiteboard. For writing and drawing, use ONLY the supplied touch pen or your fingers.</p> <p>Note:</p> <ul style="list-style-type: none"> • To change the color palette, tap . • Touch pen is supplied with thick tip and thin tip. The app can detect automatically which tip (/ ) 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”.
 Eraser	<p>Erase areas of your written texts or drawings. Select the eraser size and drag your fingers over the area you want to remove.</p>  <p>Note: You can also use the palm of your hand to erase the item on the whiteboard.</p> 
 Erase All	<p>Erase all written texts and drawings on the virtual whiteboard.</p>

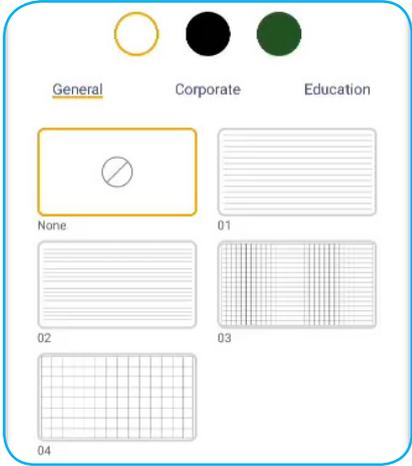
BASIC OPERATIONS

Item		Description
	Select	<p>Select an object on the whiteboard. Tap any of the following to alter the selected area:</p>  <ul style="list-style-type: none"> •  (boundary point) to enlarge or diminish. •  to rotate. •  to duplicate. •  to delete.
	Geometric shape	<p>Draw a geometric shape. Tap to select the desired 2D or 3D shape with several color options.</p> 
	Import file	<p>Import images from different storage devices, including internal storage, USB storage, or cloud drive.</p>
	Menu	<p>Tap any of the following options:</p> <ul style="list-style-type: none"> • New to create a new file. • Open to open an *.iwb format file. • Save to save the current content as an IWB file. •  to open Settings menu. Then enable or disable auto saving and eye protection writing mode, check for software updates, and manage cloud storage accounts. • ? to open Team Share app tutorial.

BASIC OPERATIONS

Item	Description
 Export file	<p>Select one of the available options to export a file. Tap any of the following:</p> <ul style="list-style-type: none">  to export the file to an internal/external storage or cloud storage. Note: For more information on cloud storage account management, refer to “Cloud Storage” on page 76.  to share the file with QR code. <div data-bbox="743 521 1145 947" style="border: 1px solid #00aaff; border-radius: 15px; padding: 10px; margin: 10px 0;"> <p style="text-align: center; font-size: 0.9em;">Share with QR code</p> <p style="text-align: center; font-size: 0.8em;">Ensure your device is connected to the same Wi-Fi. Then scan the QR code.</p> <div style="text-align: center; margin: 10px 0;">  </div> <p style="text-align: center; font-size: 0.8em;">Close</p> </div> <p>Note: Before scanning the QR code to view the file, make sure the IFP and your mobile device are connected to the same Wi-Fi network.</p> <ul style="list-style-type: none">  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.
 Page manager	<p>View and manage all pages that are involved in the current project. Tap any of the following:</p> <ul style="list-style-type: none">  to add a page.  to remove a page. <div data-bbox="427 1312 1461 1666" style="border: 1px solid #00aaff; border-radius: 15px; padding: 10px; margin: 10px 0;"> <div style="display: flex; justify-content: space-between; font-size: 0.8em; margin-bottom: 5px;"> 1 2 3 </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">  </div> <div style="width: 30%; border: 1px solid #ccc; padding: 5px;">  </div> <div style="width: 30%; border: 2px solid #ffc107; padding: 5px;">  </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> + ☰ ↓ ↑ 📖 🔍 🗑️ </div> </div>

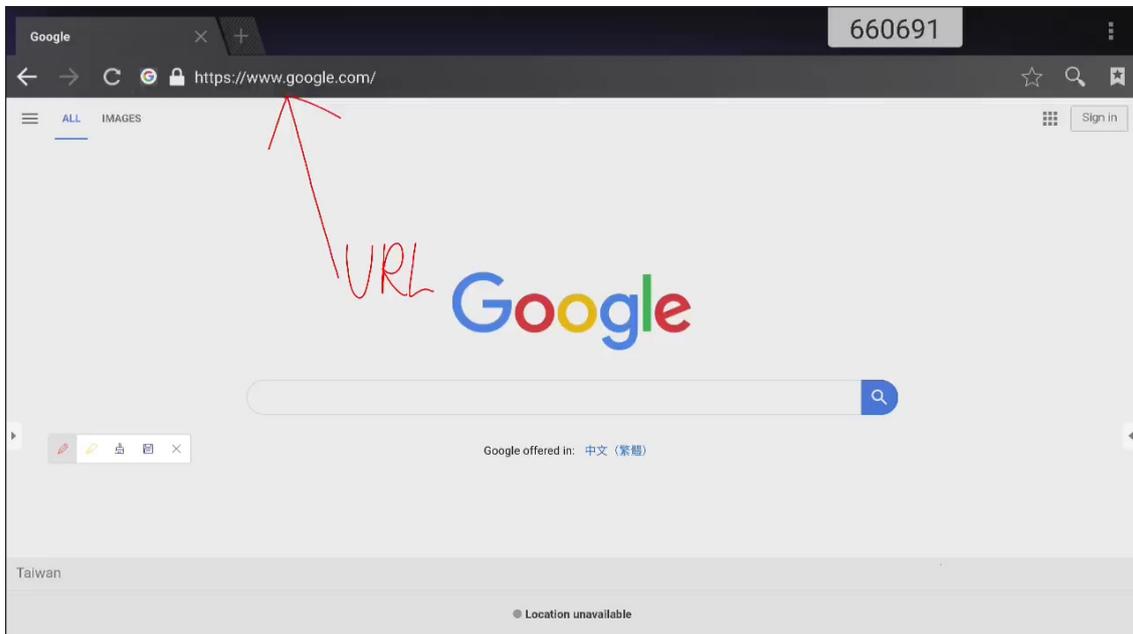
BASIC OPERATIONS

Item		Description
	Background options	<p>Select a background or template for your content.</p> 
	Undo	Undo your last action.
	Redo	Redo your last action.
	Add page	Add a new page.

BASIC OPERATIONS

Annotation App

Tap  >  to open annotation app.



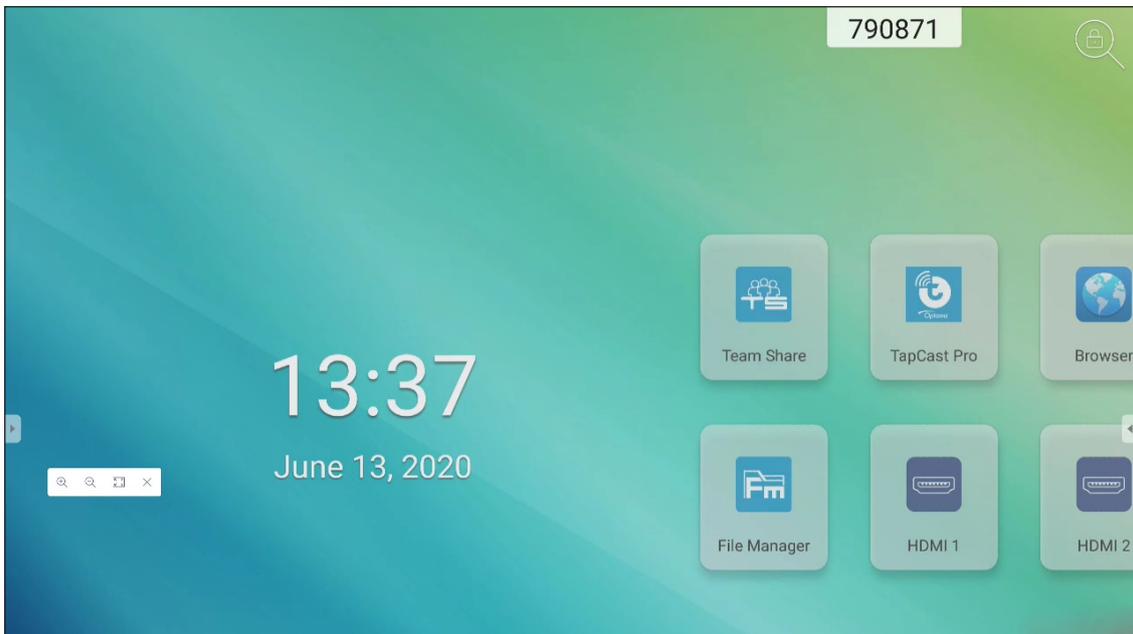
In this mode, you can do the following:

- Tap  to write and draw on the screen.
Note: You can change the pen color by tapping  repeatedly.
- Tap  to highlight the item on the screen.
Note: You can change the highlighter color by tapping  repeatedly.
- 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 exit the current mode, tap .

BASIC OPERATIONS

Screen Freezing

Tap  >  to freeze the current screen.

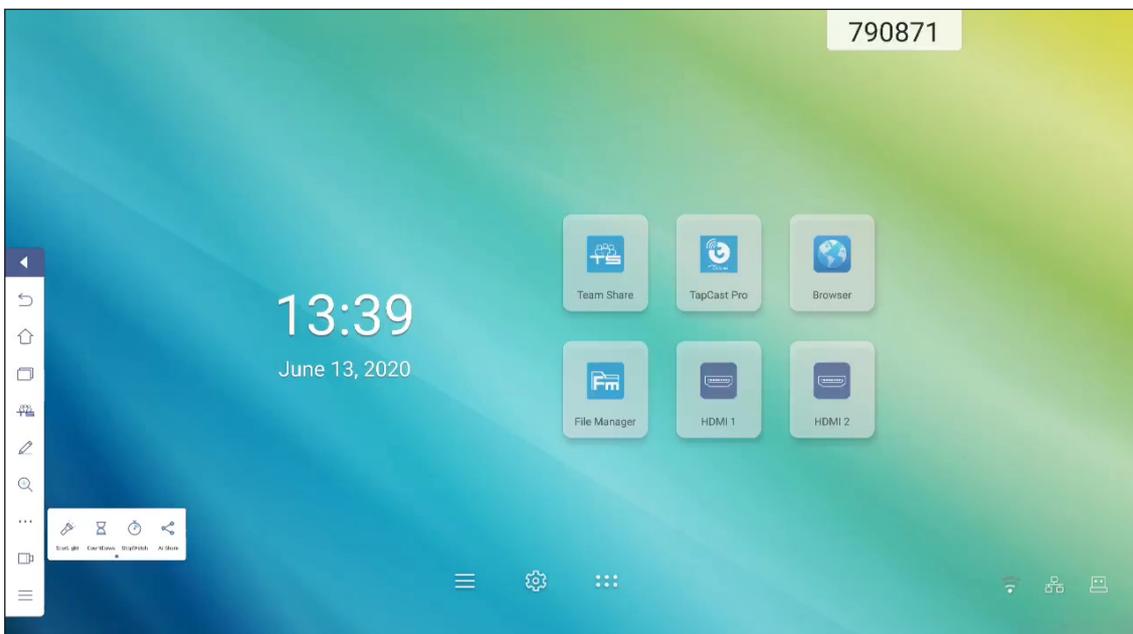


In this mode, you can do the following:

- To zoom in, tap . Then you can pan and move around the image.
Note: Each tap increases the magnification.
- To zoom out, tap .
Note: You can also pinch with two fingers on the screen to zoom in or out.
- To restore the image to its original size, tap .
- To exit the current mode, tap .

Other Utilities

Tap  >  to access other utilities such as **SpotLight**, **CountDown**, **StopWatch**, and **AirShare**.



BASIC OPERATIONS

- Tap  to activate **SpotLight**. **SpotLight** can be used to direct the audience's focus to a specific part of the board.
- Tap  to use the **CountDown** function.
- Tap  to use the **StopWatch** function.

AirShare

Tap  > ... >  to enter **AirShare**. A QR code appears on the screen.

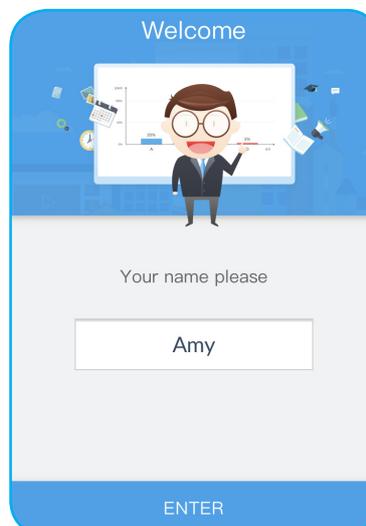


To join the virtual classroom, complete the following steps:

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

IMPORTANT!

- *The IFP and your mobile device must be connected to the same Wi-Fi network.*
 - *During the operation, make sure that you have access to the internet.*
3. Scan the QR code. Then enter your name and tap **ENTER** to join the class.



4. On IFP, tap **Enter the class** to start the class session.

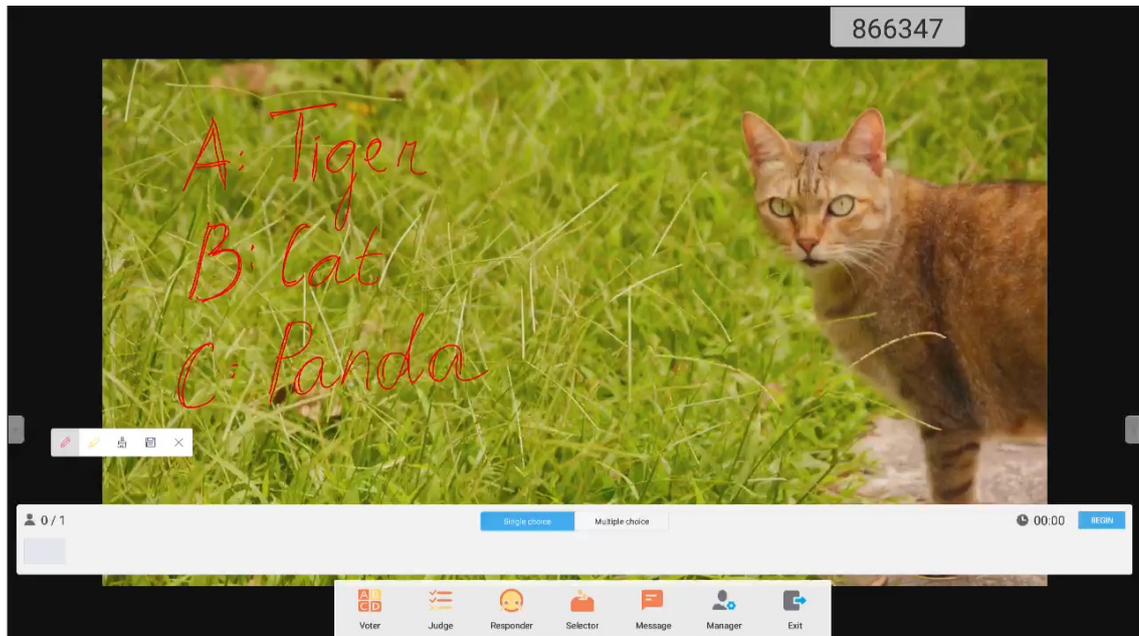
BASIC OPERATIONS

To participate in the class, do the following:

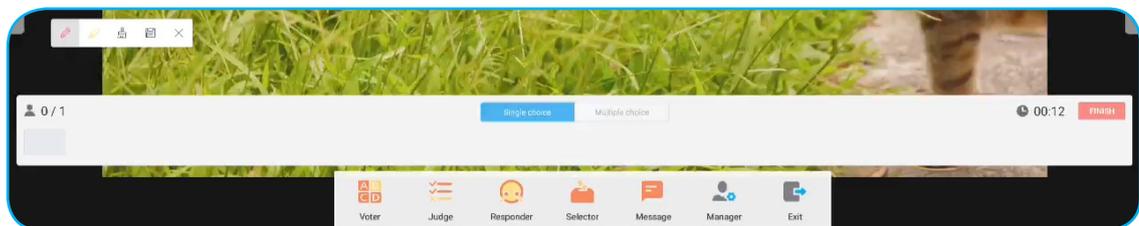
Launch the **Team Share** app or similar tool to open virtual whiteboard. Then you can use the following functions:

a. Voter

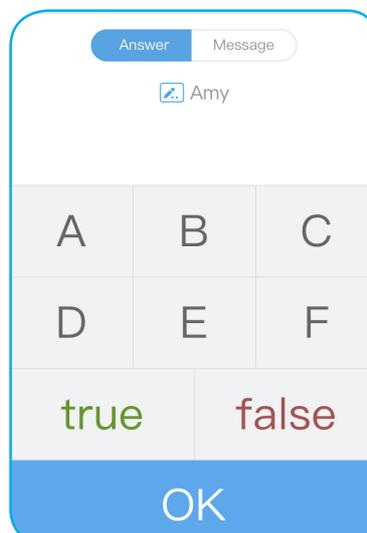
1. Tap  to enter the Voter interface.
2. Select **Single choice** or **Multiple choice** to define the answer type.



3. Tap **BEGIN** to start answering question.



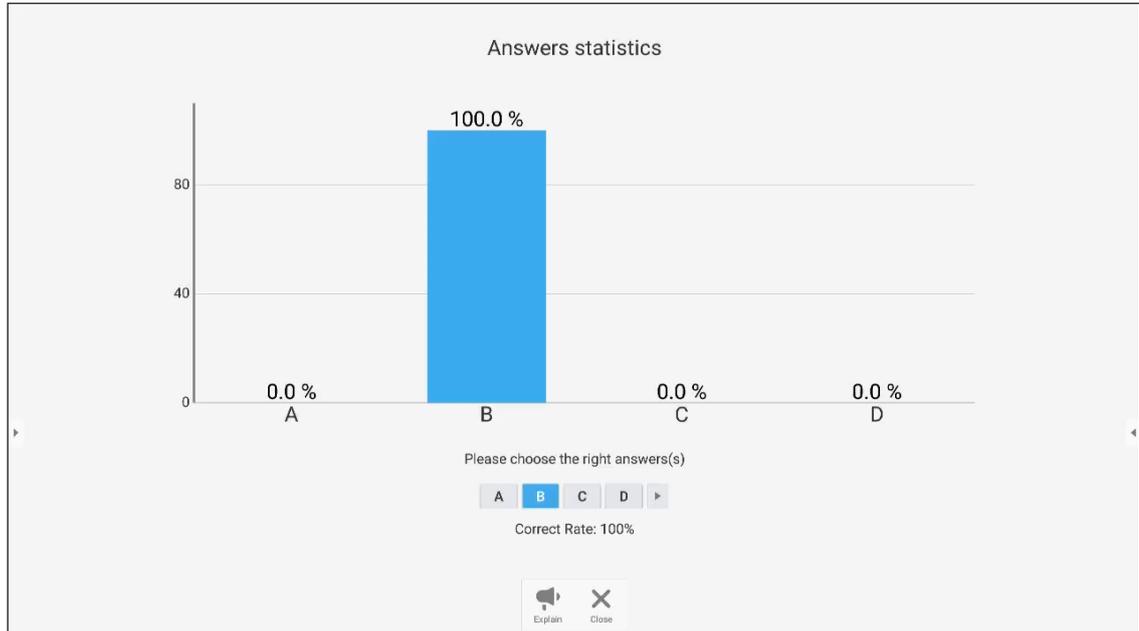
4. The participant can respond by selecting the answer on the mobile device screen and tap **OK**.



5. To close the answering session, tap **FINISH**. The Answer statistics will be displayed on the screen.

BASIC OPERATIONS

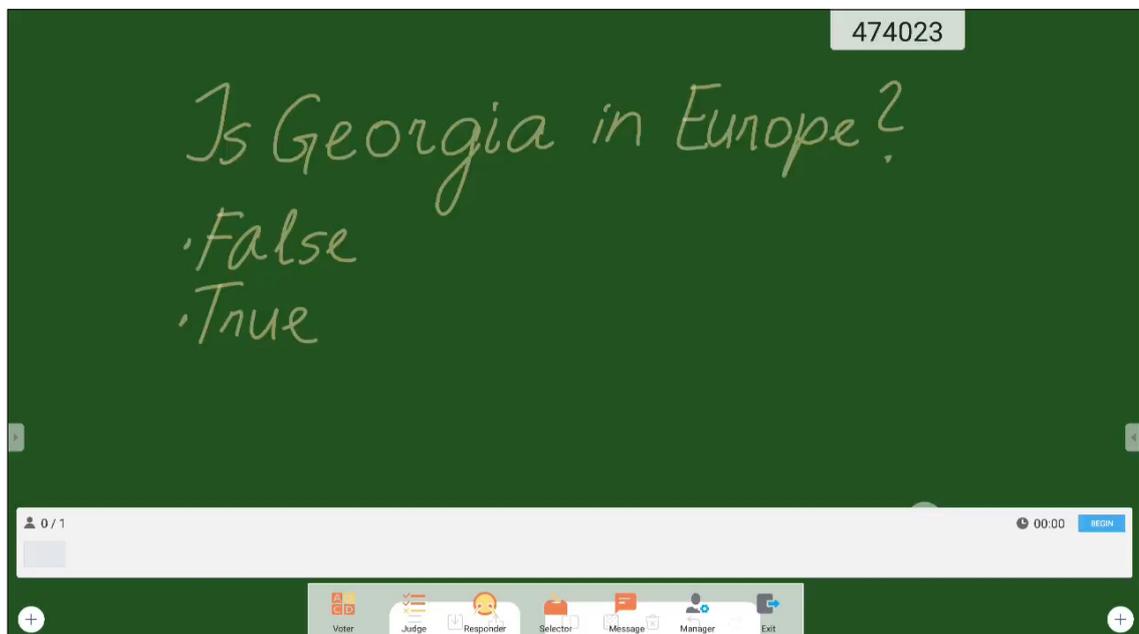
6. Tap the right answer(s) on the statistics screen.



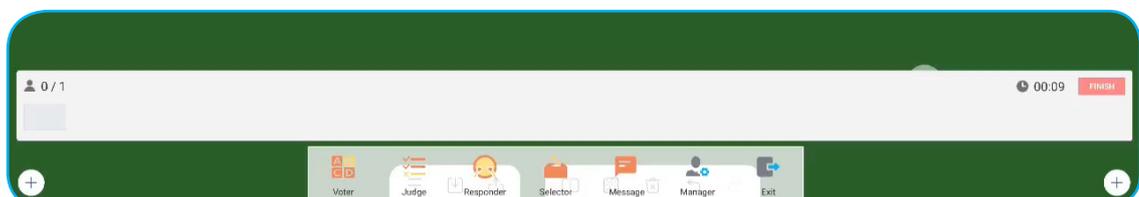
- Tap to switch to the explanation session. The instructor can then explain to the participant(s) the solution for the question.
- Tap to close the Answer statistics page.

b. Voter

1. Tap to enter the Judge interface.

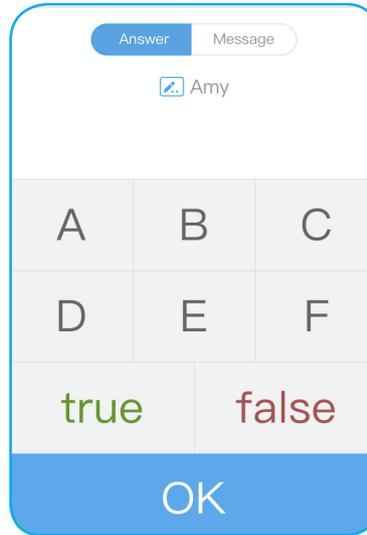


2. Tap **BEGIN** to start answering question.

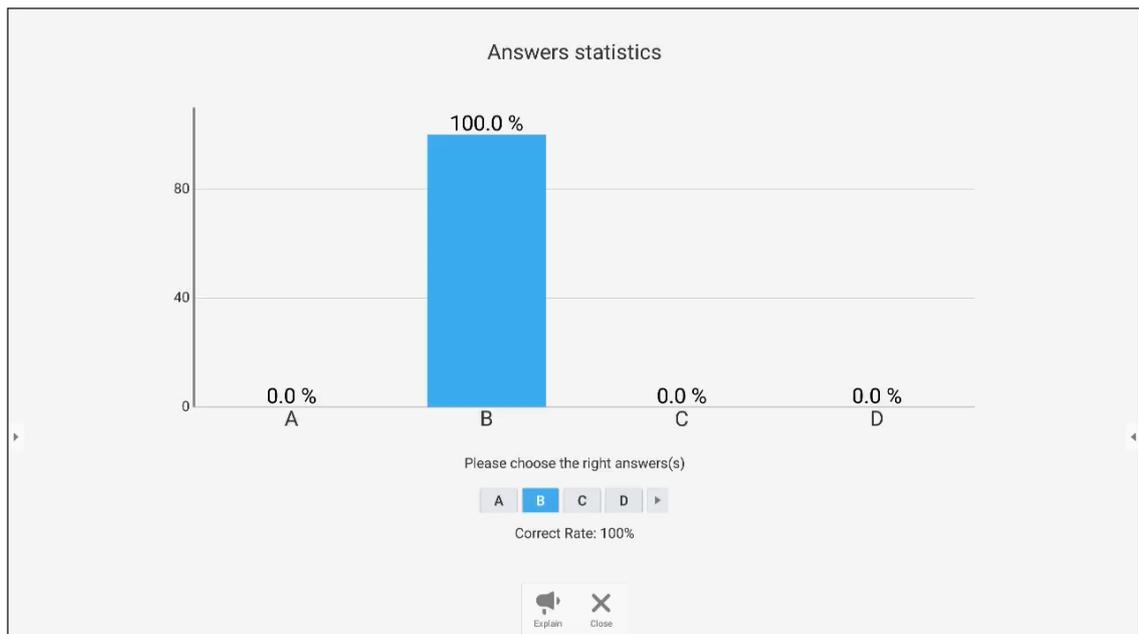


BASIC OPERATIONS

- The participant can respond by selecting the answer on the mobile device screen and tap **OK**.



- To close the answering session, tap **FINISH**. The Answer statistics will be displayed on the screen.
- Tap the right answer(s) on the statistics screen.

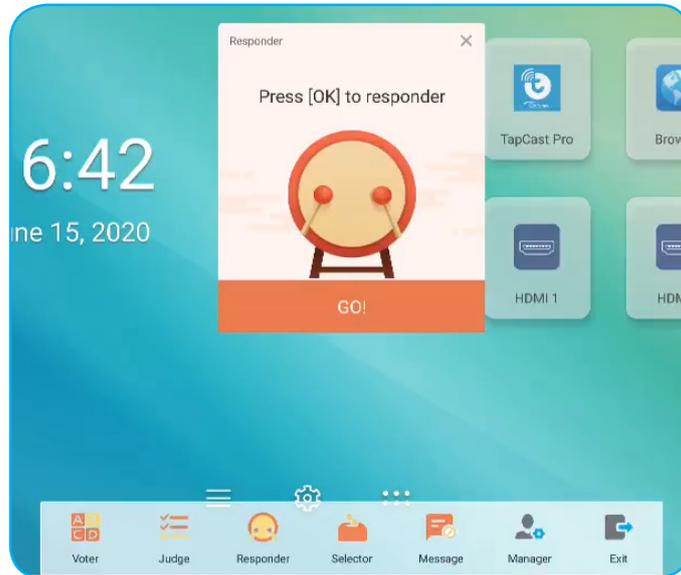


- Tap  to switch to the explanation session. The instructor can then explain to the participant(s) the solution for the question.
- Tap  to close the Answer statistics page.

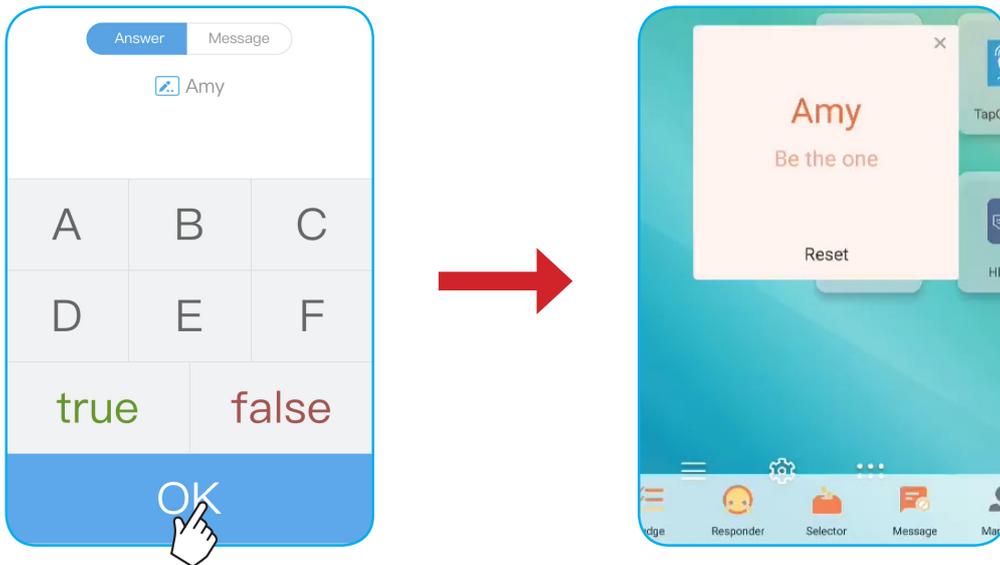
BASIC OPERATIONS

c. Responder

1. Tap  to enter the Responder mode. Then tap **GO!** to start the Answer mode.

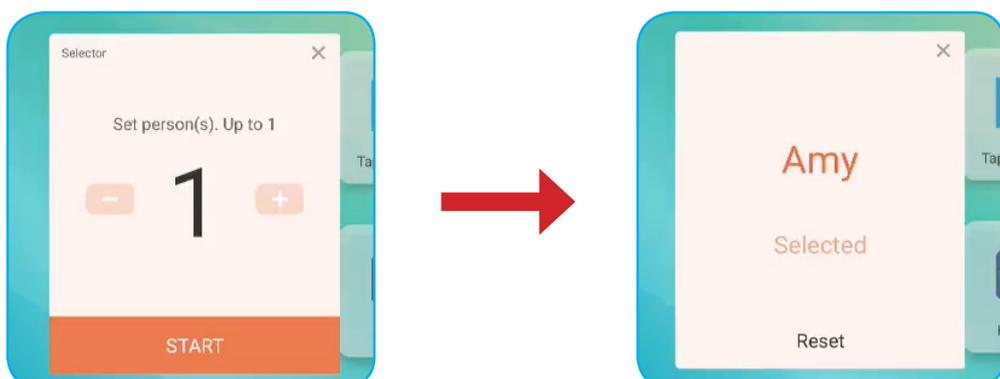


2. When the function is activated, the person who taps **OK** first will get the right to answer. For example, if Amy first taps **OK**, then she gets the right to answer the question.



d. Selector

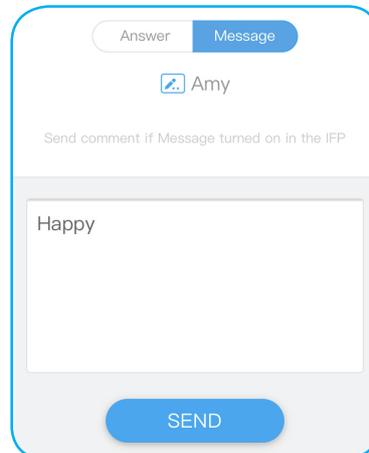
Tap  to enter the Selector mode. Select the number of person(s) whom will be selected. Then tap **START**. The result is displayed on the screen.



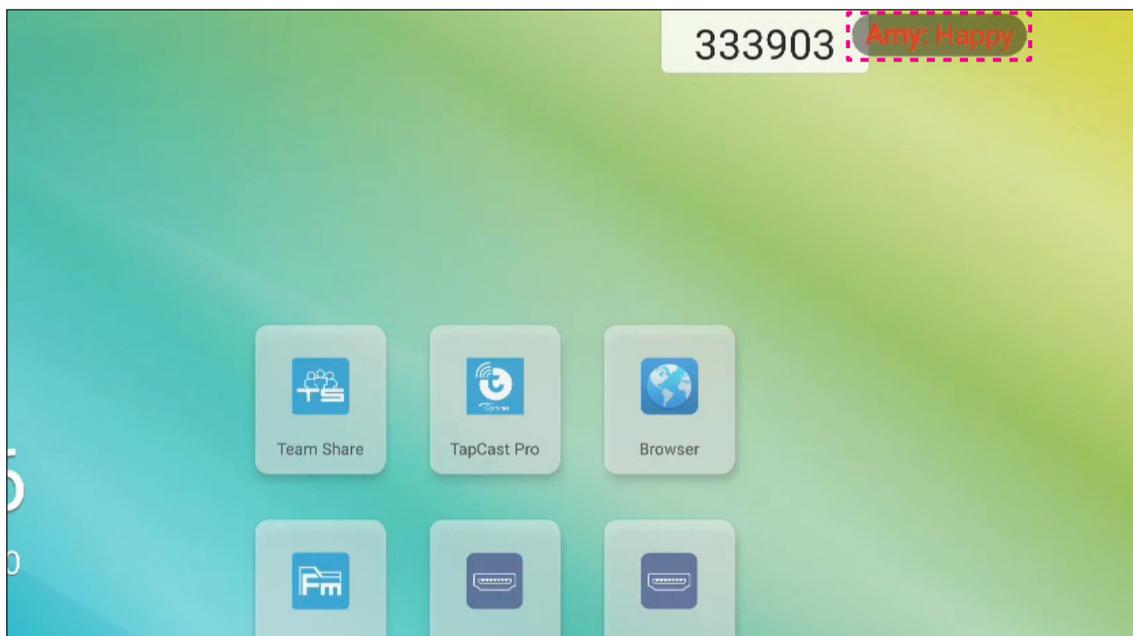
BASIC OPERATIONS

e. Message

1. Make sure message  function is enabled.
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  to display the QR code and allow more participants to join the class.
- Tap  to exit **AirShare**.

BASIC OPERATIONS

Screen Recorder

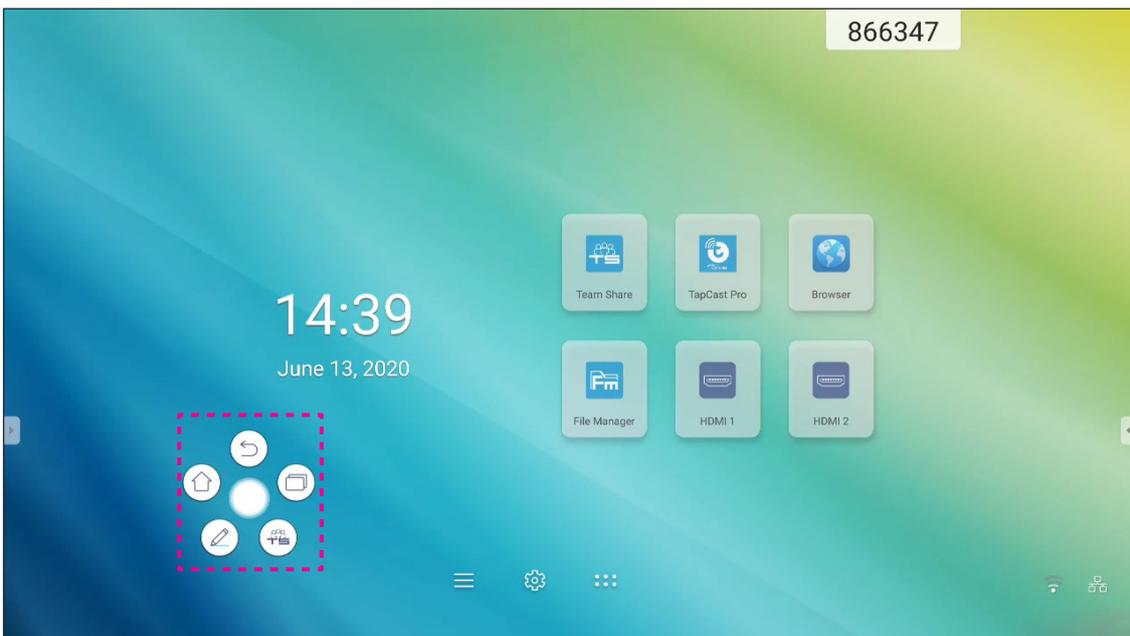
Tap  >  to open screen recording utility. This utility helps you to record video from the IFP's screen.



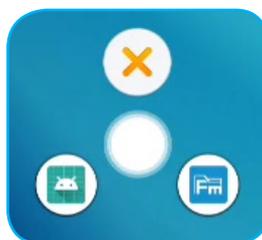
- Tap  to start recording the screen. While recording, tap  to pause recording or  to stop recording, then select a location where to save the recording and tap **OK**.
- Tap  to configure recording settings: camera recording, video resolution, and default path where recordings are saved.
Note: *By default, all recordings are saved to the Record folder.*
- Tap  to close the recording tool.

Floating Annotation Toolbar

Touch the screen with your two fingers, 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 open **Team Share**.
- Tap  to view recent tasks. Tap the task you want to switch to or tap  to close the annotation toolbar.

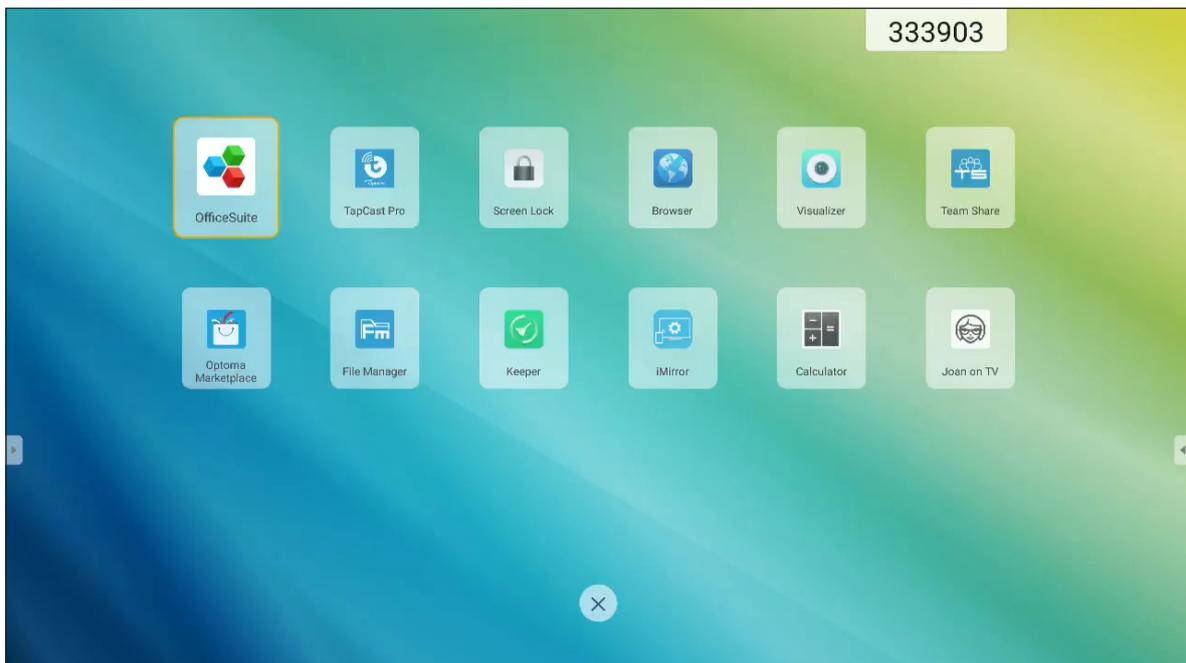


- Tap  and drag the annotation toolbar to your preferred location on the screen.

USING THE APPS

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

IMPORTANT! *The embedded Android 8.0 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.*



Note: *To install a third party application, you have to enable the **Unknown sources** setting first in the **Advanced Settings > Security** menu. Refer to “Configuring Security Settings” on page 45. You can then install the downloaded APK (Android Package) file into your system.*

USING THE APPS

TapCast Pro

Tap  **TapCast Pro** to project your mobile device or your computer display to the IFP through Wi-Fi or LAN connection.

IMPORTANT!

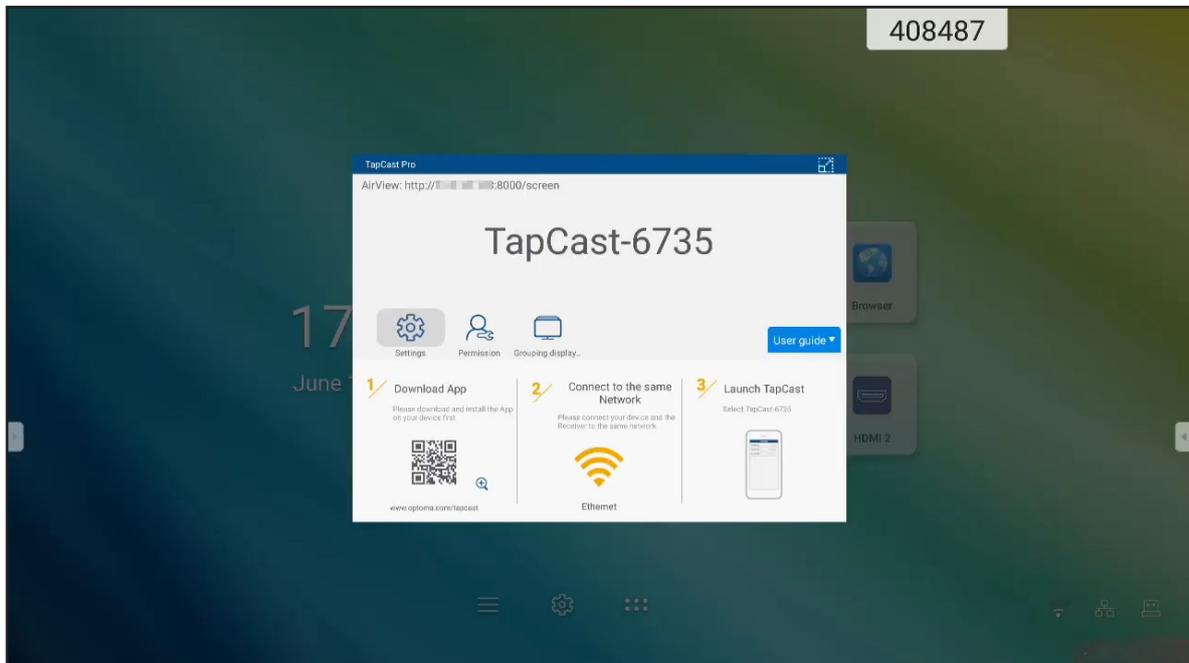
- *The IFP and your mobile device/computer must be connected to the same Wi-Fi or LAN network.*
- *During the operation, make sure that you have access to the Internet.*

TapCast Pro App Compatibility Table

Operating System	Available Version
 Windows	Windows 7/8/10
 Mac	OSX 10.8 or later
 iPhone	iOS 9.0 or later
 Android	Android 5.0 or later
 Chrome	Chrome OS 65 or later

Mobile Device

When the setup guideline screen appears, scan the QR code to download and install the **TapCast Pro** app onto your mobile device.



USING THE APPS

To share the screen, complete the following steps:

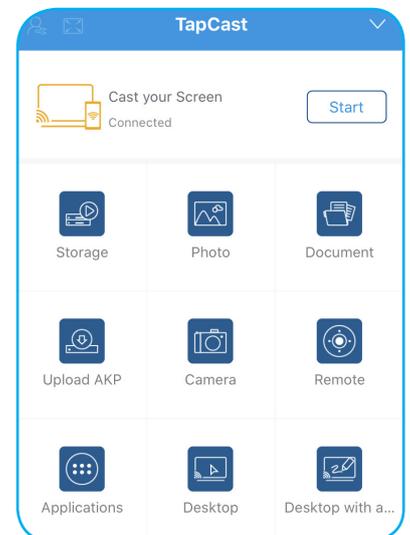
1. Launch the **TapCast Pro** app. Enter the TapCast password and tap **OK** to establish the connection.



Note: You can obtain the password for the wireless connection setup on the setup guideline screen.

2. Tap any of the following:

- **Storage** to listen to music stored in your mobile device.
- **Photo** to view photos stored in your mobile device.
- **Document** to view files stored in your mobile device.
- **Upload APK** to upload apps from you mobile device to the IFP.
- **Camera** to turn on the camera of your mobile device and transfer the image captured by the camera to the IFP.
- **Remote** to use your mobile device as a remote control to control the IFP.
- **Applications** to allow your mobile device to remotely launch the apps installed on the IFP.
- **Desktop** to mirror the IFP screen to your mobile device. You can use your mobile device to operate the IFP. To end the remote session, tap .
- **Desktop with annotation** to mirror the IFP screen to your mobile device with annotation feature enabled. You can use your mobile device to operate the IFP. To end the remote session, tap .



USING THE APPS

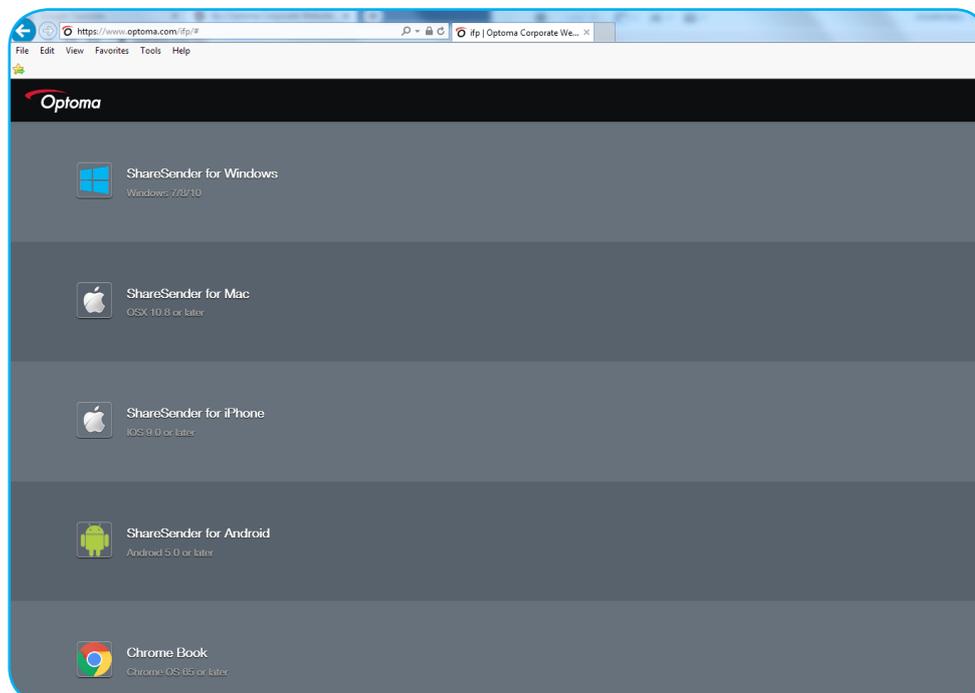
Mobile Device Screen-Casting

To mirror your iOS mobile device screen to the IFP, drag the bottom of the screen upwards to open **Control Center** > **Screen Mirroring**, then tap on the device. To end the remote session, tap **Stop Mirroring**.



Computer

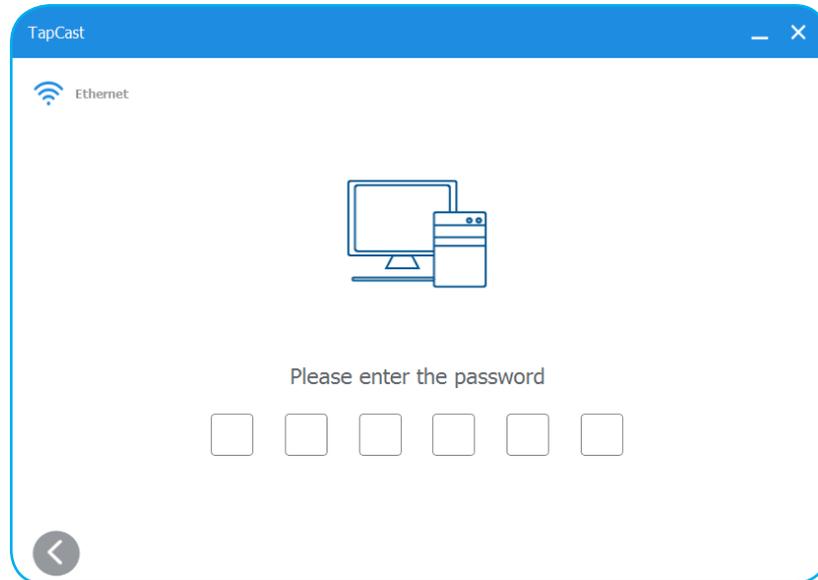
Go to <https://www.optoma.com/ifp/> to download the **Share Sender** app. Then install the app onto your computer.



USING THE APPS

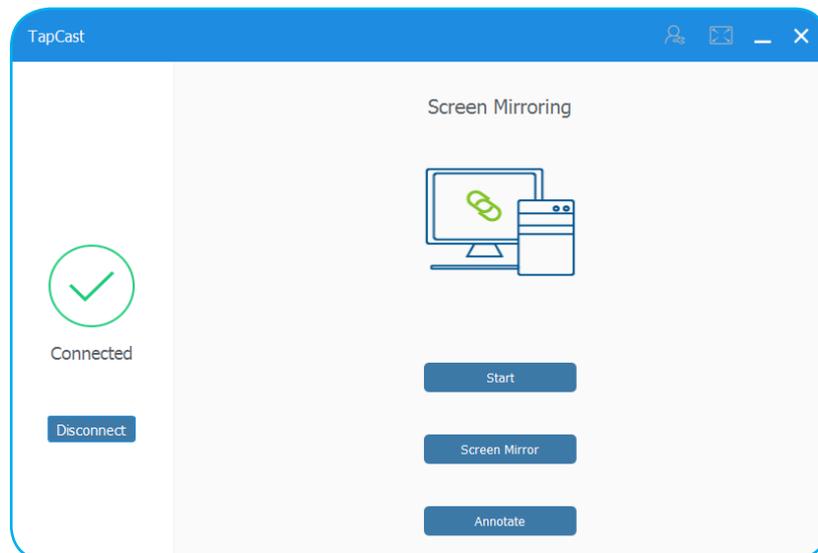
To share the screen:

1. Launch the **TapCast Pro** app. Then enter the TapCast password to establish the connection.



Note: You can obtain the password on the IFP's screen.

2. Once connected, tap any of the following:
 - **Start** to mirror the screen of your computer to the IFP.
 - **Screen Mirror** to mirror the screen of the IFP to your computer with control feature enabled.
 - **Annotate** to mirror the screen of the IFP to your computer with annotation feature enabled.



3. To stop sharing the screen, tap **Disconnect**.

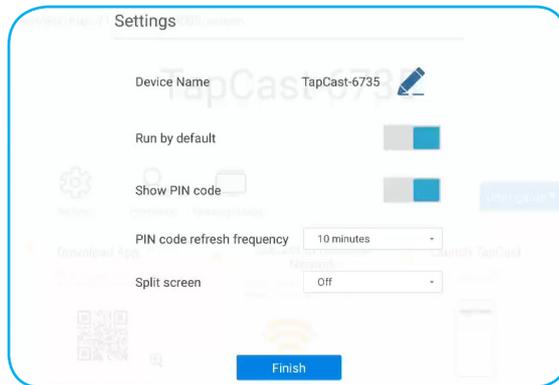
USING THE APPS

TapCast Pro Advanced Settings

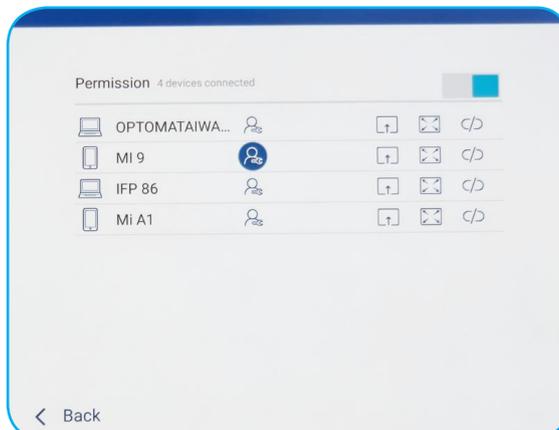
Tap any of the following icons to configure **TapCast Pro** advanced settings:



- **Settings**  to rename the device, run the **TapCast Pro** app by default after starting the IFP, show or hide the PIN code, and enable or disable split screen (4 screens) feature. Tap **Finish** to save settings and exit the **Settings** menu.



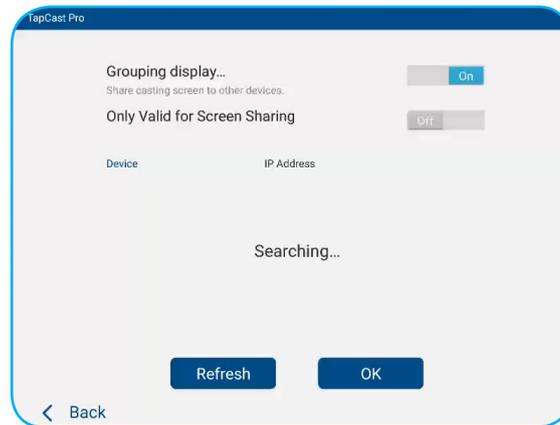
- **Permission**  to manage access control permissions. Follow the steps below:
 - a) Slide the **Permission** switch to ON.
 - b) Tap  next to the device you want to edit permissions.
 - c) Tap any of the following icons to:
 -  grant screen sharing access.
 -  grant full screen access.
 -  revoke access.



USING THE APPS

- **Grouping Display**  to enable or disable the function. If enabled, select devices where you want to share casting screen. Tap **Refresh** to refresh the device list, **OK** to save settings and exit the **Grouping display...** menu, or **Back** to exit without saving.

Note: You can also display only these devices that support screen sharing by enabling **Only Valid for Screen Sharing**.

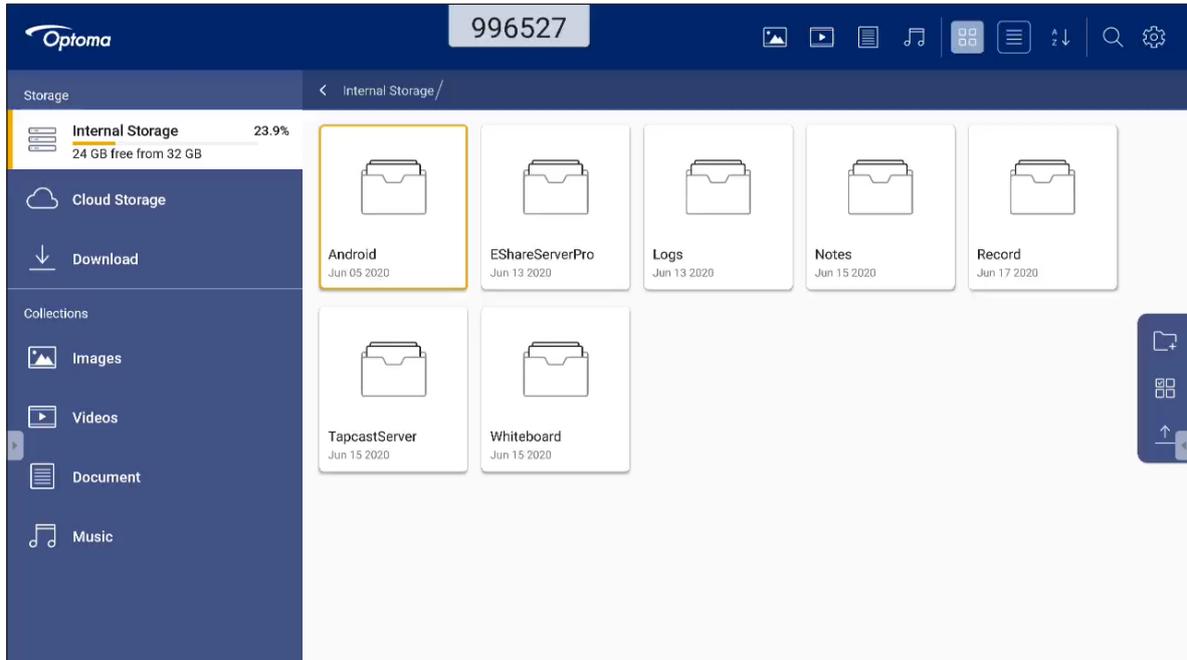


USING THE APPS

File Manager

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

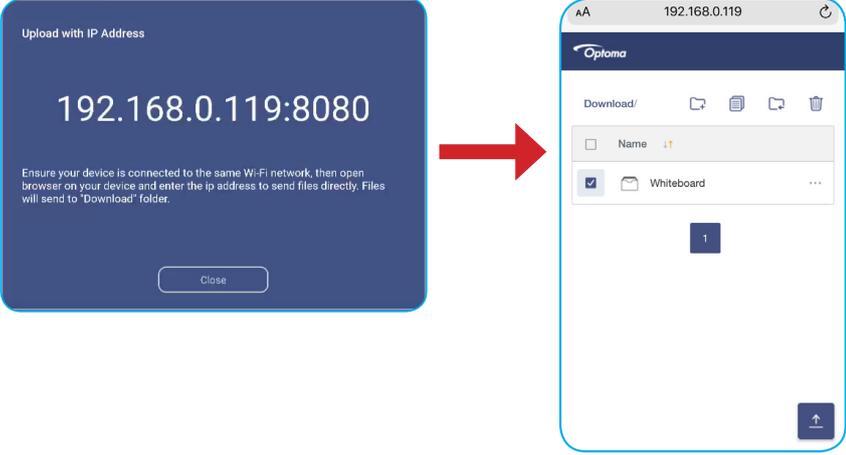
Managing Files



Select a storage and browse for a file or folder you want to view, then do any of the following:

Item	Description
 Images	Display image files.
 Videos	Display video files.
 Document	Display documents.
 Music	Display audio files.
 Thumbnail view	View content as thumbnails.
 List view	View content as a list.
 Sort	Sort content by name or by date in ascending or descending order.
 Search	Search files and folders.
 Software version	View software version and update app (if necessary).
 New Folder	Create a new folder.

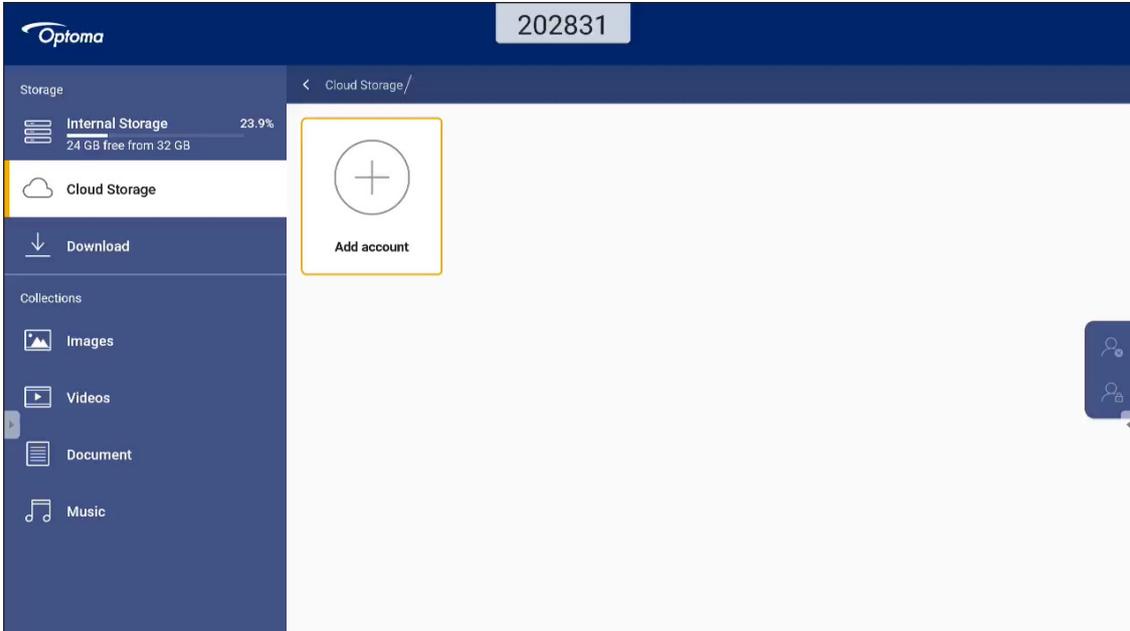
USING THE APPS

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

USING THE APPS

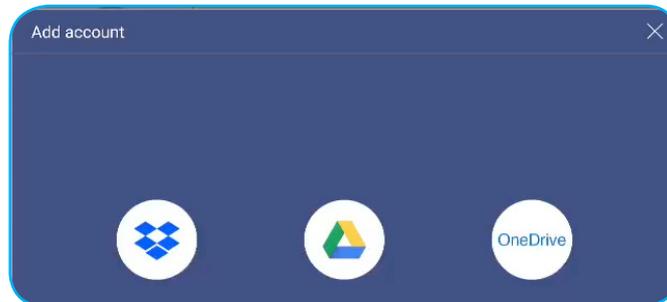
Cloud Storage

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

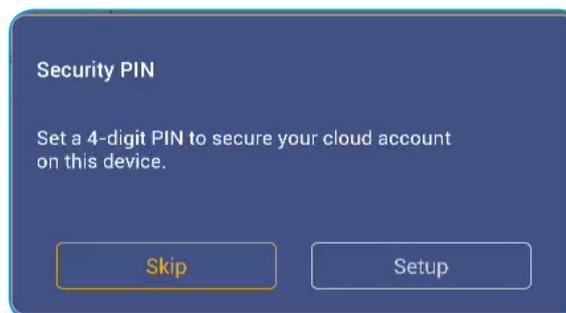


To create an account:

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



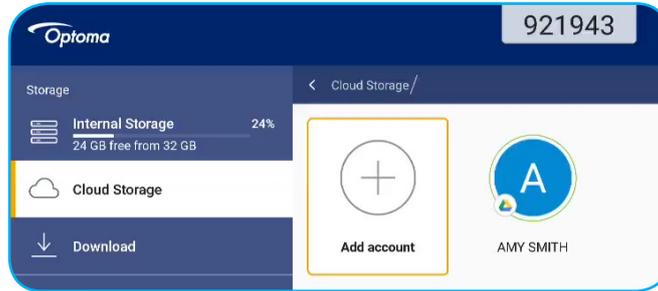
3. Follow on-screen instructions to create an account or sign in to your existing account.
4. After successful login, you are prompted to set a security PIN. Tap **Setup** to set the PIN or **Skip** to skip this step.



Note: PIN code is used to protect user's cloud storage from being illegally deposited. When system status changes (for example, from standby to normal, from backlight off to on), if someone wants to access this cloud storage, he needs to key in PIN code for verification.

USING THE APPS

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



Playing Multimedia Files

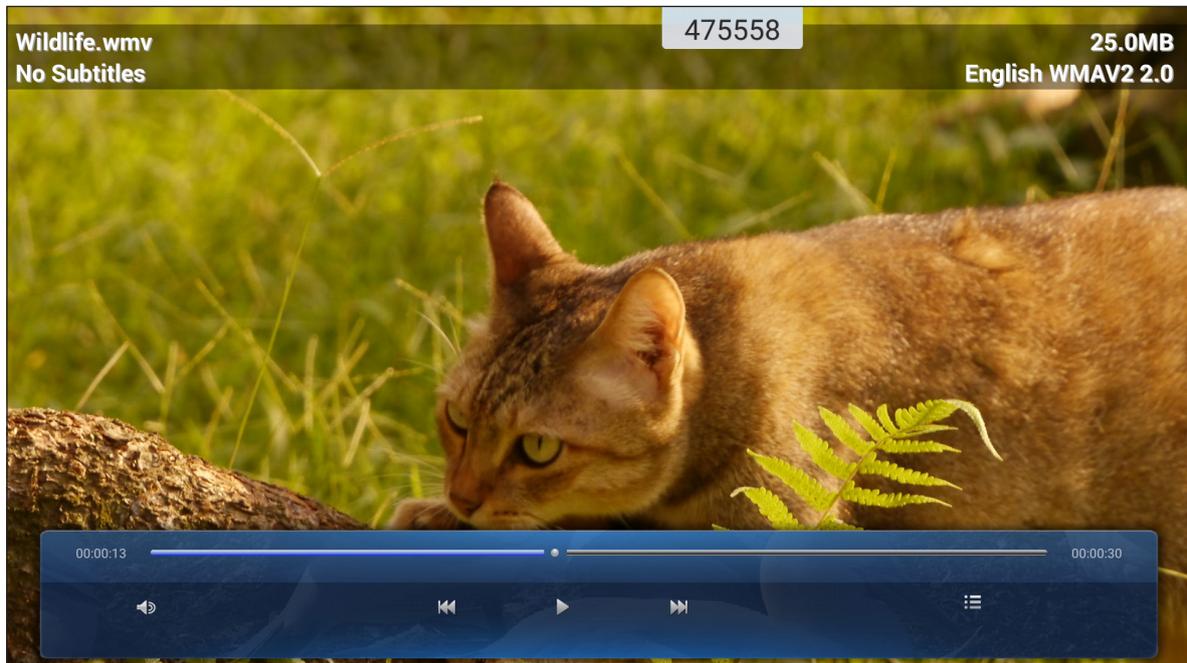
Multimedia support format

Media Type	Supported Format
Video	<p>Video support format (codec) up to 4K resolution:</p> <ul style="list-style-type: none"> • .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	<p>Audio support format (codec):</p> <ul style="list-style-type: none"> • .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	<p>Supported image format (with the maximum resolution):</p> <ul style="list-style-type: none"> • *.png (8k*8k) • *.jpeg (baseline 8k*8k; progressive 4k*4k) • *.bmp (8k*8k) • *.gif (4k*4k)

USING THE APPS

Playing videos

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



During the playback, you can do the following:

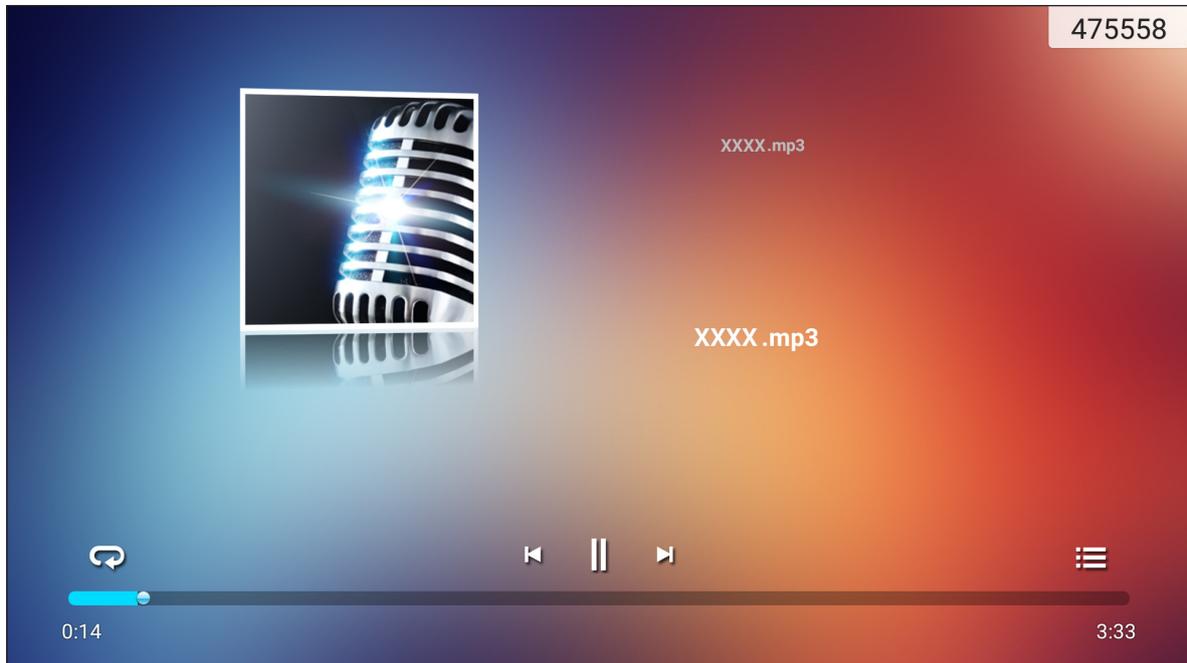
Item		Description
🔊	Volume	Adjust the volume level.
⏮	Previous video	Skip to the previous video.
⏸	Pause	Pause the playback. To resume, tap ▶.
⏭	Next video	Skip to the next video.

Note: To stop playback at any time, tap ▶ or ◀ to display the side toolbar. Then tap ↺.

USING THE APPS

Playing music

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



During the playback, you can do the following:

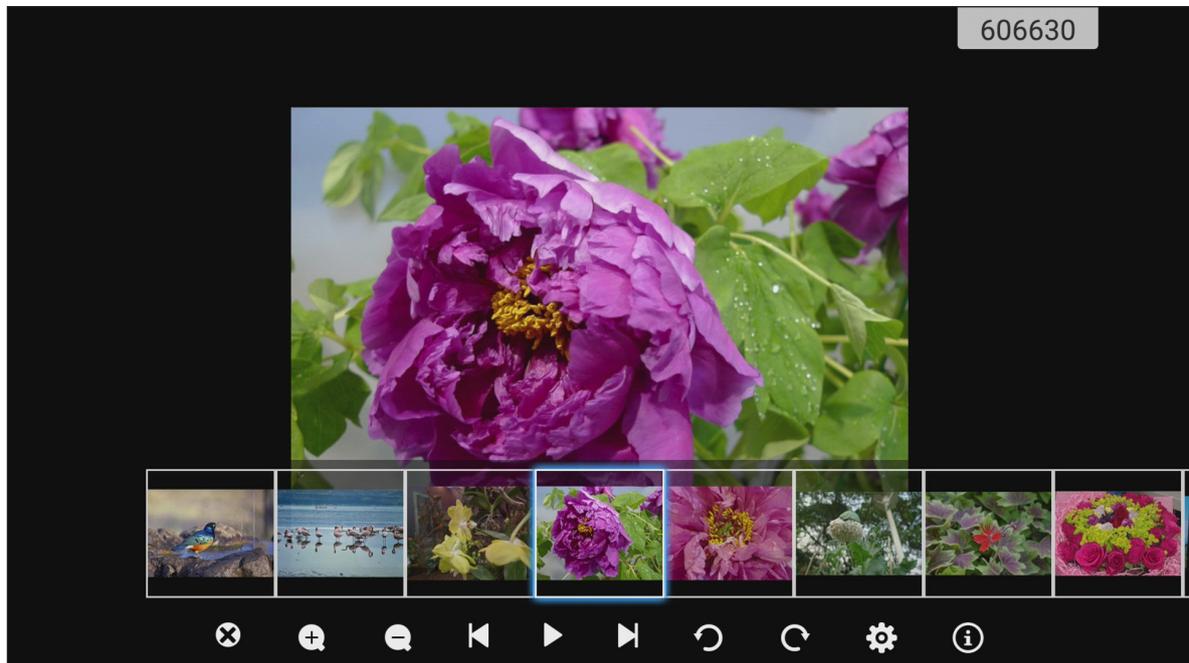
Item	Description
	Repeat Select the repeat mode.
	Pause Pause the playback. To resume, tap ▶.
	Previous track Skip to the previous track.
	Next track Skip to the next track.
	Playlist View the playlist.

Note: To stop playback at any time, tap ▶ or ◀ to display the side toolbar. Then tap .

USING THE APPS

Viewing photos

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



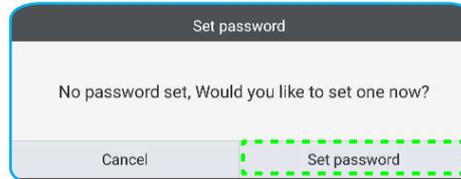
Item		Description
	Exit	Exit full screen mode.
	Zoom in	Magnify the photo.
	Zoom out	Zoom out on the magnified photo.
	Previous photo	Skip to the previous photo
	Slide show	Start the slide show. To stop, tap .
	Next photo	Skip to the next photo.
	Rotate Left	Rotate the photo 90-degree counter-clockwise.
	Rotate Right	Rotate the photo 90-degree clockwise.
	Settings	Configure the wallpaper and slide show settings.
	Information	Display the photo information.

USING THE APPS

Screen Lock

Tap **Screen Lock** to set the 4-digit pin code. Using the pin code, you can block the IFP from unauthorized use.

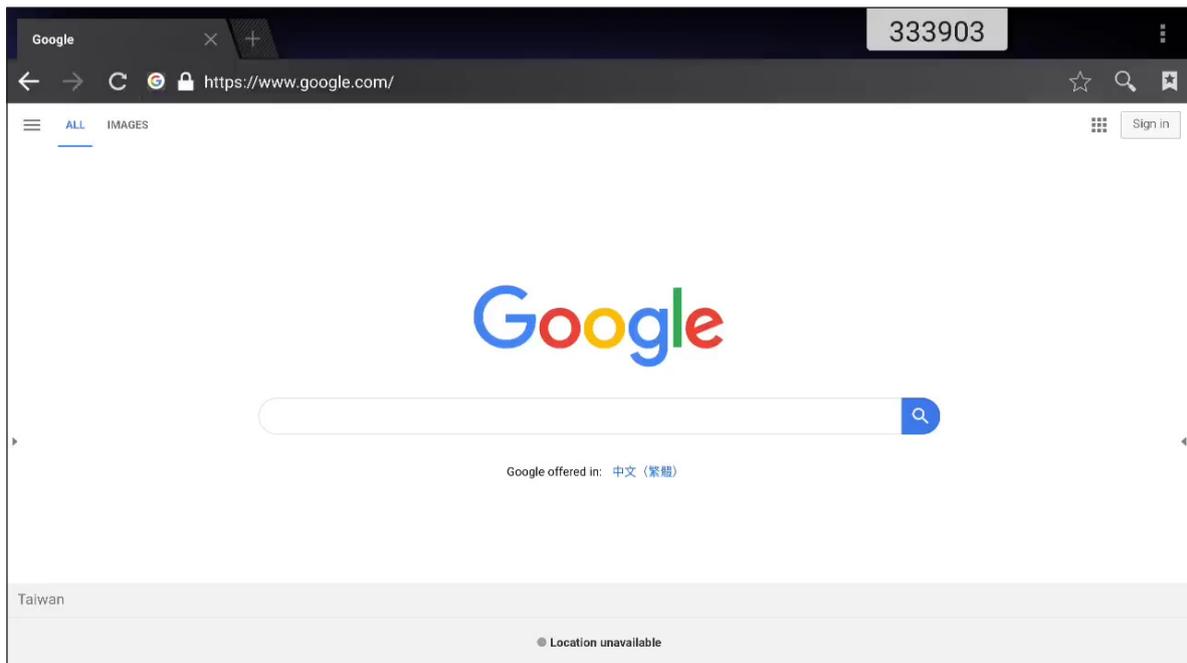
To set the pin code for the first time, launch the **Screen Lock** app. Then tap **Set password**.



The **Advanced Settings > Security** menu opens. To set the password, refer to “Configuring Security Settings” on page 45.

Browser

Tap **Browser** to access web pages.

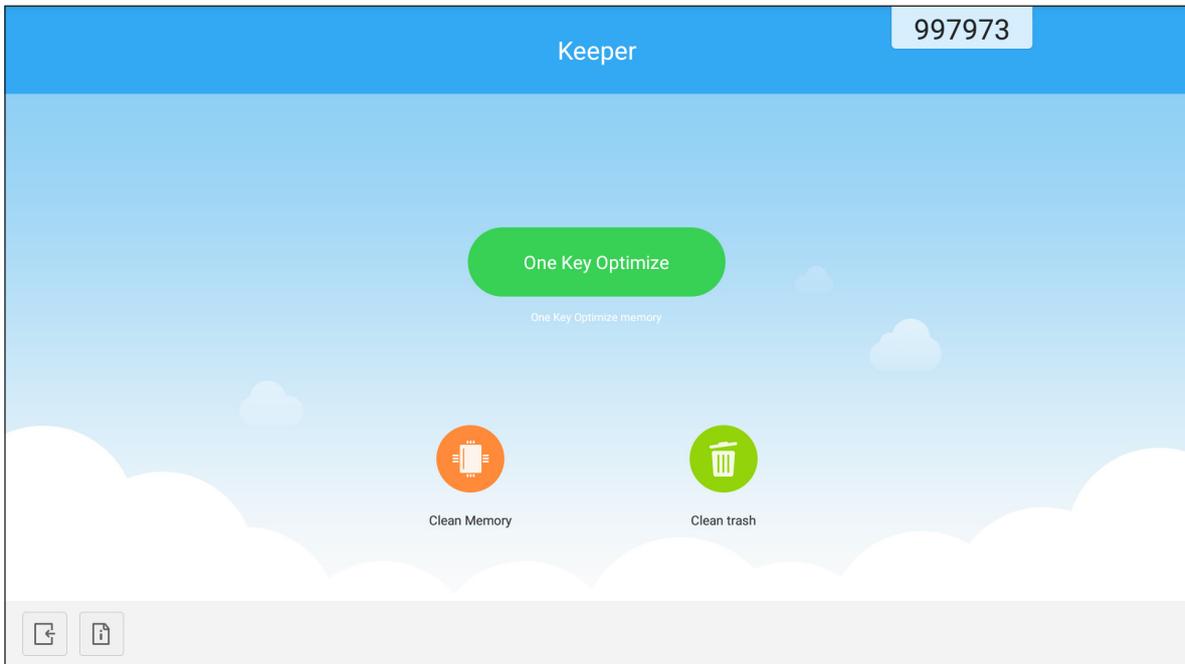


USING THE APPS

Keeper

Select **Keeper** to clean and optimize the data on the IFP.

Tap **One Key Optimize** to clean the memory and delete the temporary and junk files simultaneously.



Otherwise, tap  or  to perform the cleaning task separately.

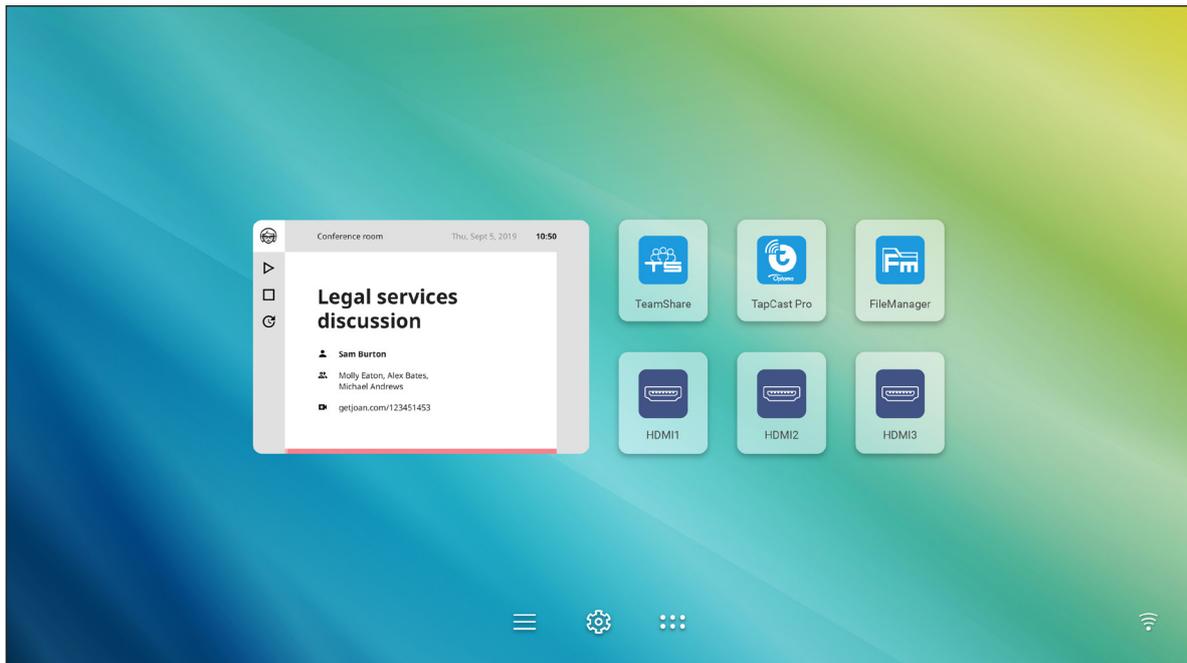
Joan on TV

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



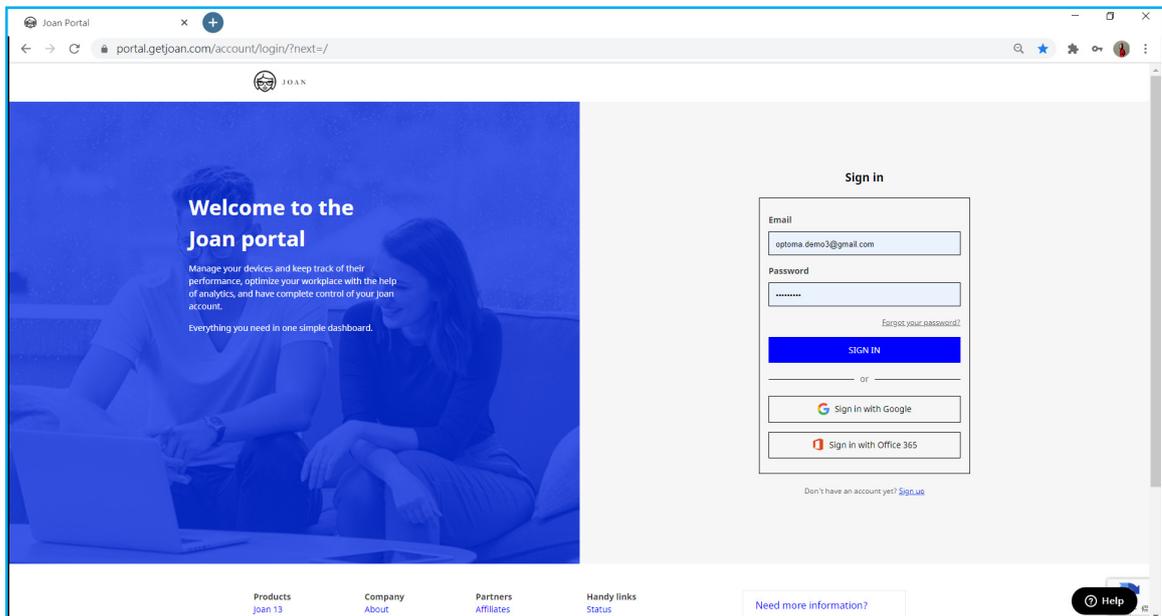
After successful connection, the IFP will display meeting room(s) schedule, meeting reminders, and meeting room reminders that are set in Joan Portal.

USING THE APPS



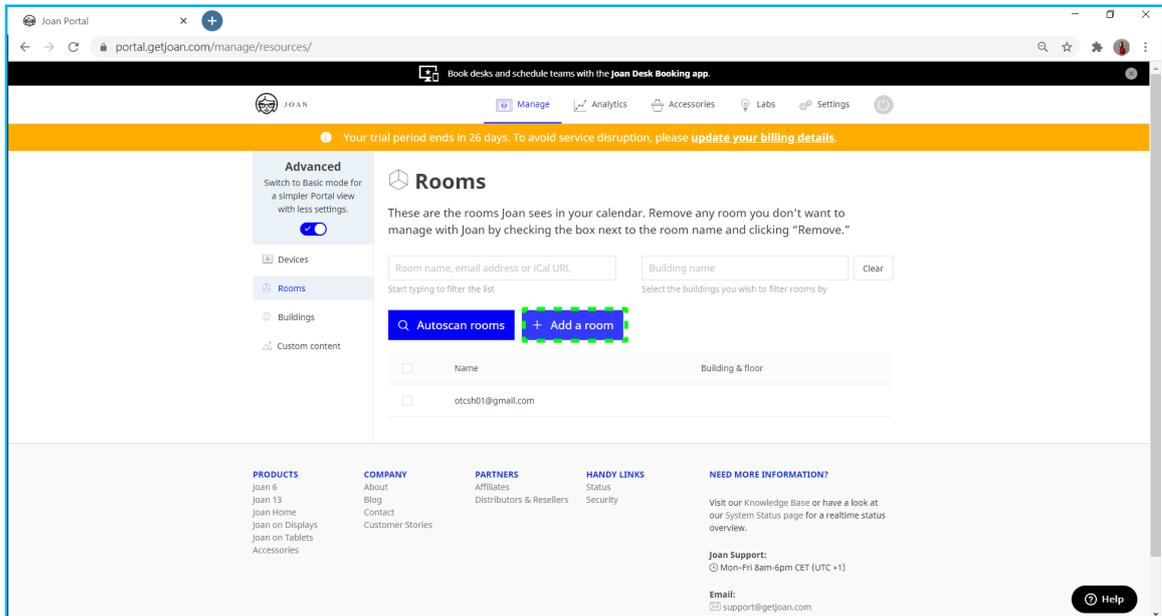
To connect the IFP to the Joan Portal, complete the following steps:

1. Open the web browser on your computer and enter <http://Portal.getjoan.com> into the address bar. The Joan Portal login page opens.
2. Sign in to the Joan Portal.

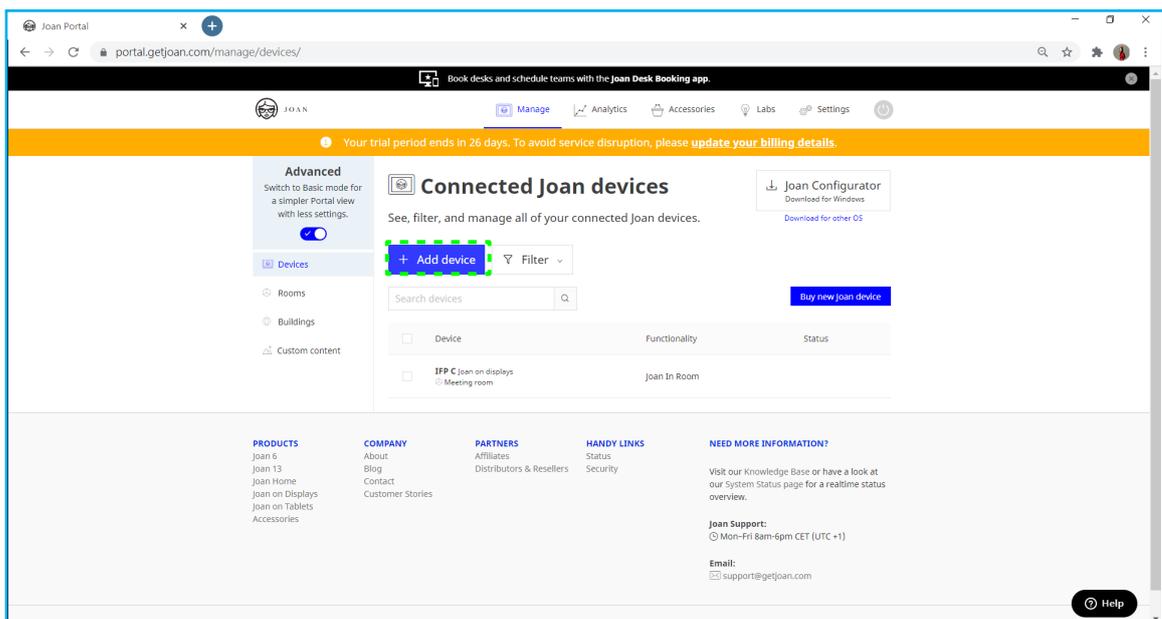


USING THE APPS

3. Create a meeting room in **Manage > Rooms > Add a room.**



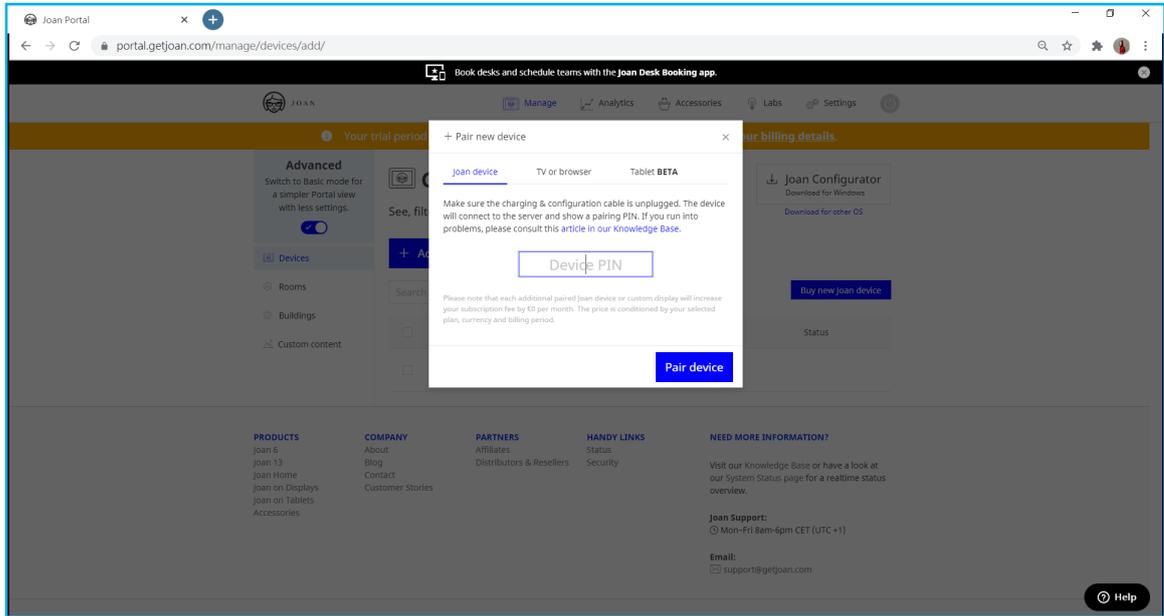
4. Connect the IFP to the Joan Portal in **Manage > Devices > Add device.**



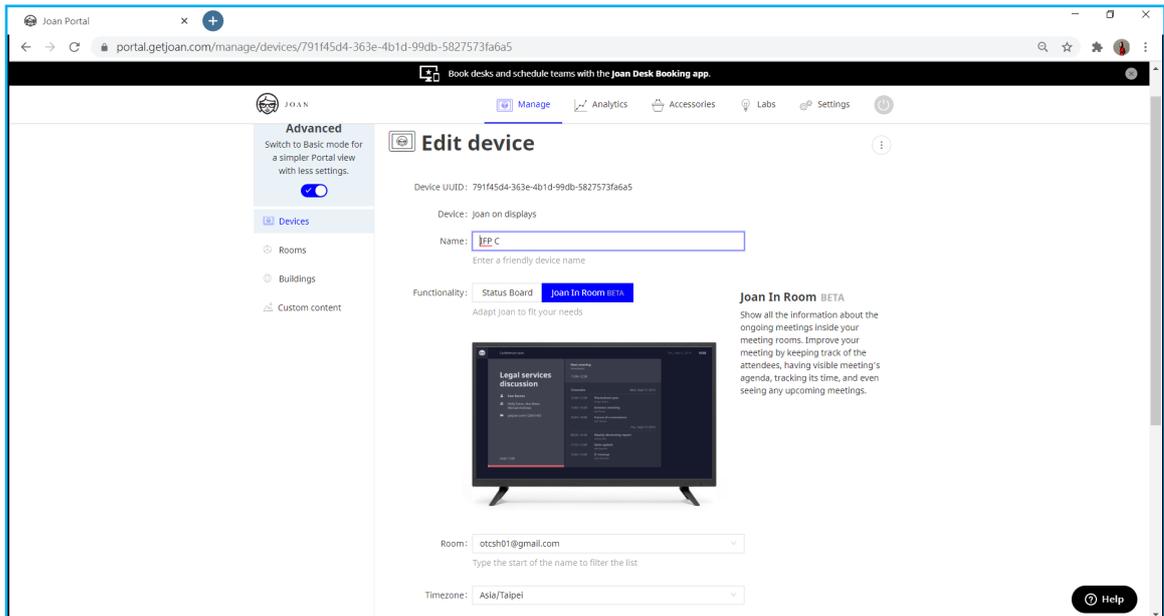
USING THE APPS

5. Enter the **Device PIN**, and then click **Pair device**.

Note: To get the PIN number, tap **Home screen** > **⋮** > **Joan on TV**.



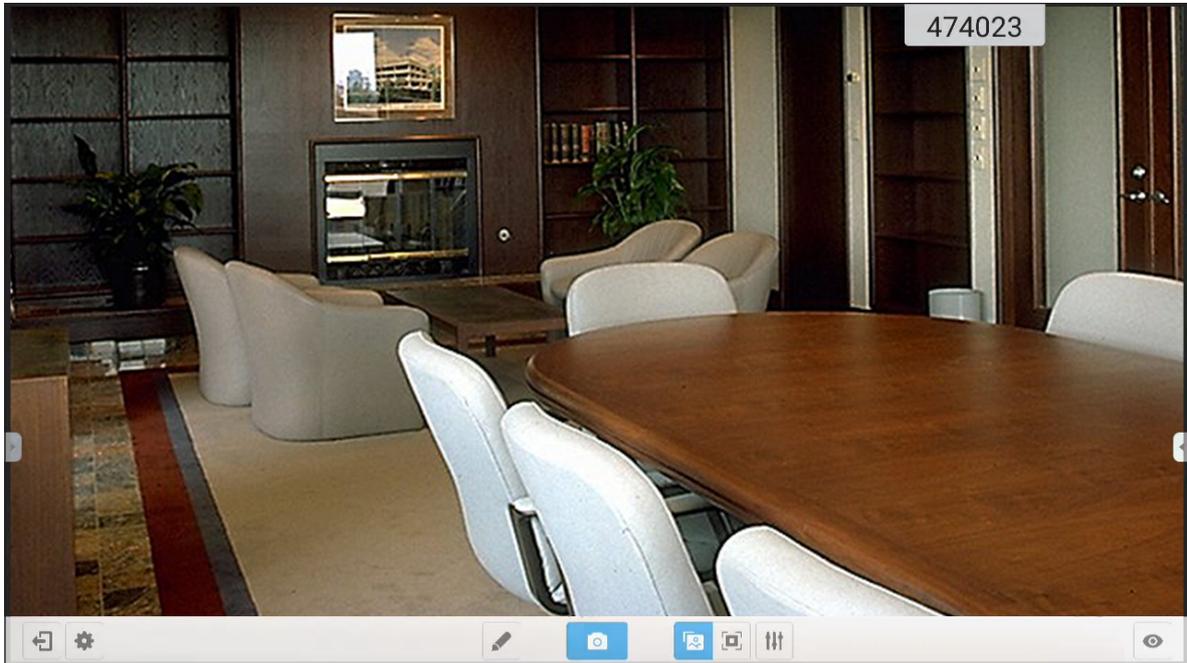
6. Connect the IFP and the meeting room in **Manage > Devices**.



USING THE APPS

Visualizer

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



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

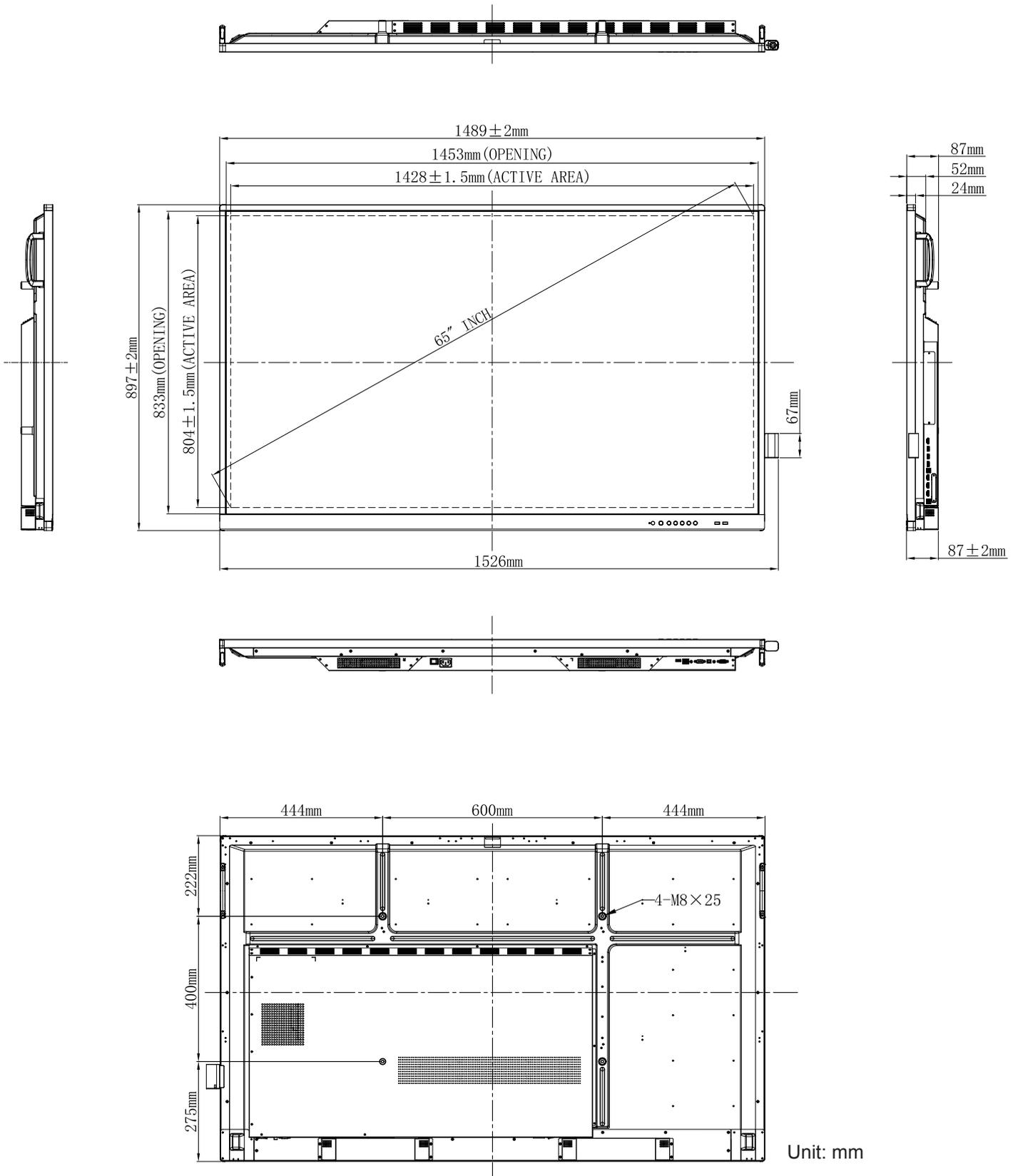
1. Connect a USB document camera to an available USB port on the IFP.
2. Launch **Visualizer** app. Then do any of the following:

Item	Description	
	Annotate	Write and draw on the screen.
	Capture screen	Capture screen image. Note: By default, images are saved to <i>VideoPresenter/photograph/{current date}</i> folder.
	Adjustment mode	Pinch the screen to zoom in/zoom out or rotate the video image.
	Full screen	Display video image in full screen.
	Settings	Adjust video image settings: <ul style="list-style-type: none"> • Exhibition settings: size, scaling, rotation, and type • Advanced options: brightness, contrast, saturation, and sharpness. Note: Settings can be configured only in adjustment mode.
	Split screen	Display simultaneously multiple video streams.
	Resolution	View connected camera(s) and select preferred resolution.
	Exit	Exit Visualizer .

ADDITIONAL INFORMATION

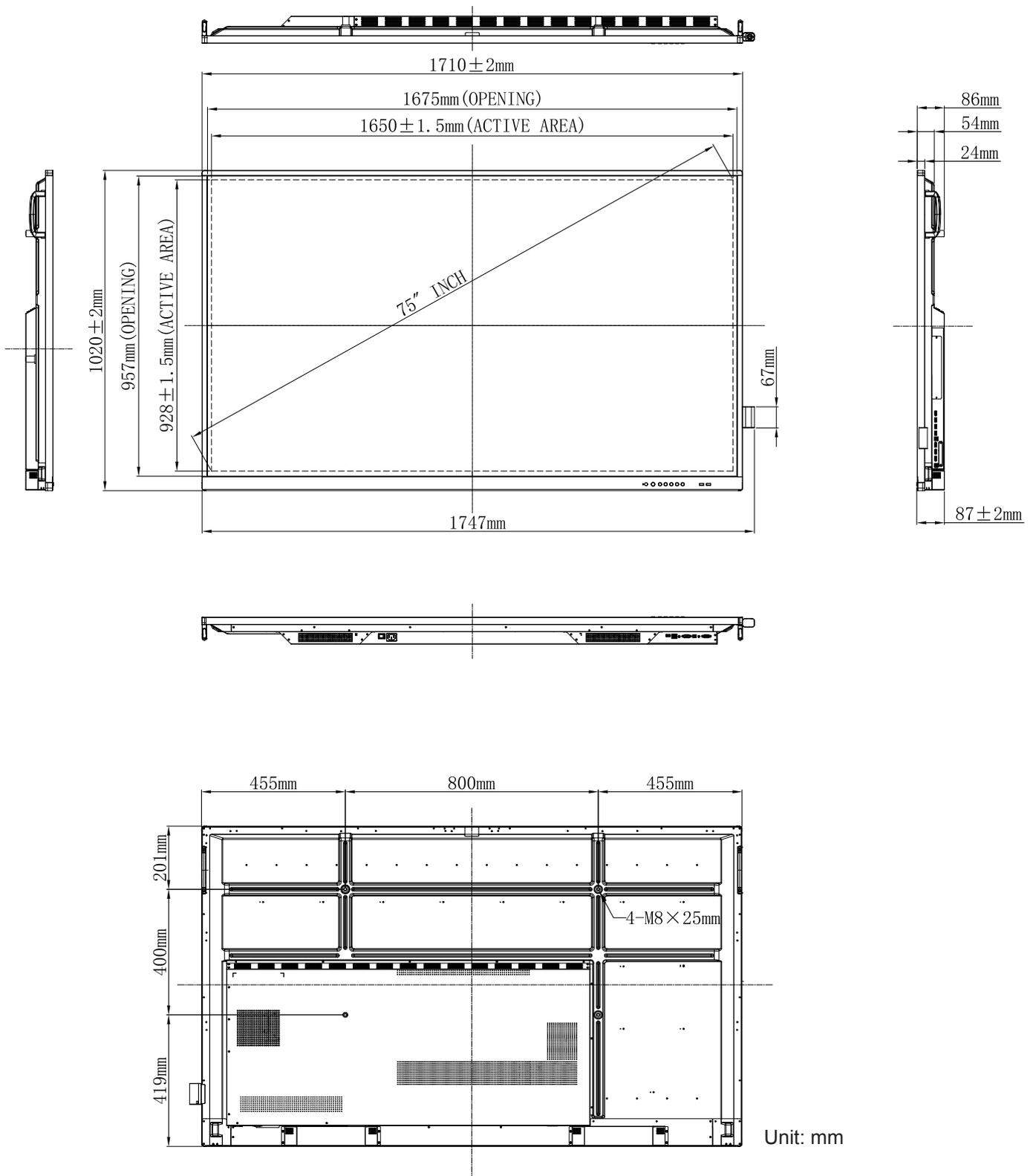
Dimensions

65-inch



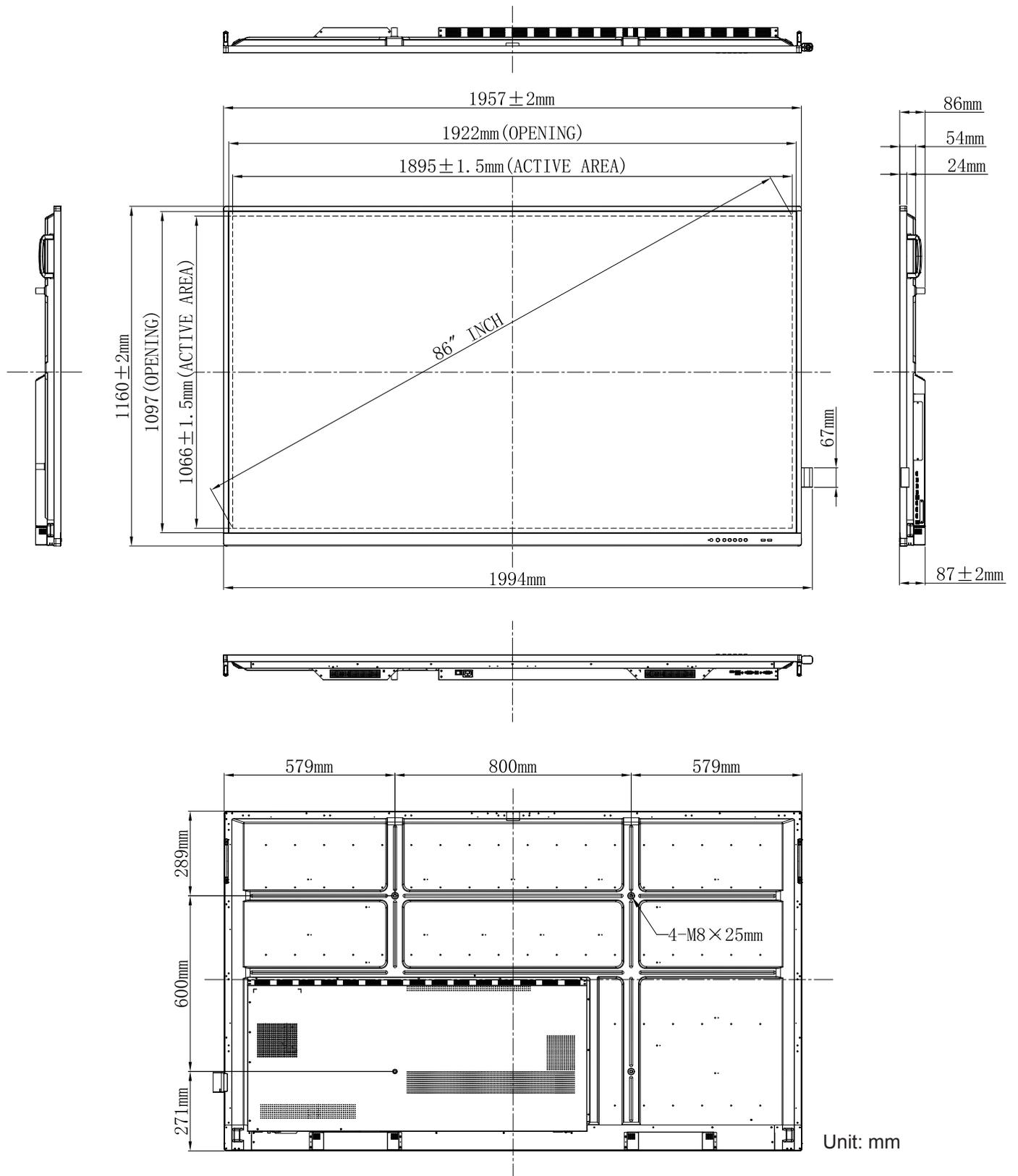
ADDITIONAL INFORMATION

75-inch



ADDITIONAL INFORMATION

86-inch



ADDITIONAL INFORMATION

Supported Timing List

Resolution	Input Source	
	VGA	HDMI1/2/3 (2.0)
720 x 400 @70Hz	√	-
640 x 480 @60Hz	√	√
640 x 480 @72Hz	√	-
640 x 480 @75Hz	√	-
800 x 600 @56Hz	√	-
800 x 600 @60Hz	√	√
800 x 600 @72Hz	√	-
800 x 600 @75Hz	√	-
832 x 624 @75Hz	√	-
1024 x 768 @60Hz	√	√
1024 x 768 @70Hz	√	-
1024 x 768 @75Hz	√	-
1152 x 864 @75Hz	√	-
1280 x 768 @60Hz(RB)	√	√
1280 x 768 @60Hz	√	√
1280 x 720 @60Hz	√	-
1280 x 800 @60Hz	√	√
1280 x 960 @60.000Hz	√	√
1280 x 1024 @60Hz	√	√
1360 x 768 @60Hz	√	√
1440 x 900 @60Hz(RB)	√	√
1440 x 900 @60Hz	√	√
1600 x 1200 @60Hz	√	/
1680 x 1050 60Hz	√	√
1920 x 1080 60Hz	√	√
720(1440) x 480i	-	√
480p 59Hz	-	√
480p 60Hz	-	√
720(1440) x 576i	-	√
576p	-	√
720p 60Hz	-	√
720p 59Hz	-	√
720p 50Hz	-	√
1080i 60Hz	-	√
1080i 59Hz	-	√

ADDITIONAL INFORMATION

Resolution	Input Source	
	VGA	HDMI1/2/3 (2.0)
1080i 50Hz	-	√
1080p 60Hz	-	√
1080p 59Hz	-	√
1080p 50Hz	-	√
1080p 30Hz	-	√
1080p 29Hz	-	√
1080p 25Hz	-	√
1080p 24Hz	-	√
1080p 23Hz	-	√
3840 x 2160 60Hz	-	√
3840 x 2160 50Hz	-	√
3840 x 2160 30Hz	-	√
3840 x 2160 25Hz	-	√
3840 x 2160 24Hz	-	√
4096 x 2160 24Hz	-	√

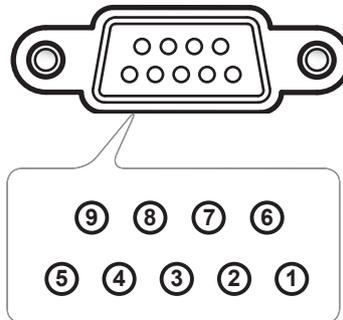
Note: “-” indicates the current input timing is not supported by the IFP.

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
		Restart	~xx00 n	n=3	7E 30 30 30 30 20 33 0d	P	F
		Power on	~xx00 n	n=1	7E 30 30 30 30 20 31 0d	P	F
SET	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
SET	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
SET	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
SET	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
SET	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
SET	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
SET	Sharpness	0 ~ 100	~xx23 n	n=0-100	7E 30 30 32 33 20 30 0d to 7E 30 30 32 33 20 31 30 30 0d	P	F
SET	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
SET	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
SET	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
SET	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
SET	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
		HDMI3		n=16	7E 30 30 31 32 20 31 36 0d	P	F
		VGA		n=5	7E 30 30 31 32 20 35 0d	P	F
		Solot 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
SET	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
SET	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
		Russia		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=10	7E 30 30 37 30 20 31 30 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
Romania	n=27	7E 30 30 37 30 20 32 37 0d	P	F			
SET	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
		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
SET	Tint	0 ~ 100	~xx44 n	n=0-100	7E 30 30 34 34 20 30 0d to 7E 30 30 34 34 20 31 30 30 0d	P	F
SET	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
SET	Sharpness	0 ~ 100	~xx23 n	n=0-100	7E 30 30 32 33 20 30 0d to 7E 30 30 32 33 20 31 30 30 0d	P	F
SET	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
SET	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
SET	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

ADDITIONAL INFORMATION

Type	Category	Parameter	CMD		Hex Code CMD	Response	
						Success	Failed
SET	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
SET	Reomte control command	Vol +	~xx140 n	n=17	7E 30 30 31 34 30 20 31 37 0d	P	F
		Vol -		n=18	7E 30 30 31 34 30 20 31 38 0d	P	F
SET	Reomte control command	Remote UP	~xx140 n	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

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
GET	Contrast	~xx126 n	n=1	7E 30 30 31 32 36 20 31 0D	OK0-100	0-100	F
GET	Brightness	~xx125 n	n=1	7E 30 30 31 32 35 20 31 0D	OK0-100	0-100	F
GET	Volume	~xx120 n	n=1	7E 30 30 31 32 30 20 31 0D	OK0-100	0-100	F
GET	Video Mute	~xx363 n	n=1	7E 30 30 33 36 33 20 31 0D	OK0	Off	F
					OK1	On	F
GET	Mute	~xx356 n	n=1	7E 30 30 33 35 36 20 31 0D	OK0	Off	F
					OK1	On	F
GET	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
GET	Input Source	~xx121 n	n=1	7E 30 30 31 32 31 20 31 0D	OK7	HDMI1	F
					OK8	HDMI2	F
					OK9	HDMI3	F
					OK2	VGA	F
					OK20	Android	F
					OK21	Slot in PC	F

ADDITIONAL INFORMATION

Type	Category	CMD		Hex Code CMD	Response		
					Success	Parameter	Failed
GET	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
GET	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
GET	Color Temp	~xx128 n	n=1	7E 30 30 31 32 38 20 31 0D	OK1	Cool	F
					OK0	Standard	F
					OK3	Warm	F
GET	WLAN status	~xx451 n	n=1	7E 30 30 34 35 31 20 31 0D	OK0	Disconnected	F
					OK1	Connected	F
GET	WLAN Mac address	~xx555 n	n=2	7E 30 30 35 35 35 20 32 0D	Oknn:nn:nn:nn:nn	Mac Address	F
GET	WLAN IP address	~xx451 n	n=2	7E 30 30 34 35 31 20 32 0D	Oknnn:nnn:nnn:nnn	IP address	F
GET	LAN status	~xx87 n	n=1	7E 30 30 38 37 20 31 0D	OK0	Disconnected	F
					OK1	Connected	F
GET	LAN Mac address	~xx555 n	n=1	7E 30 30 35 35 35 20 31 0D	Oknn:nn:nn:nn:nn	Mac Address	F
GET	LAN IP address	~xx87 n	n=3	7E 30 30 38 37 20 33 0D	Oknnn:nnn:nnn:nnn	IP address	F
GET	FW version	~xx122 n	n=1	7E 30 30 31 32 32 20 31 0D	Oknnnnnnnnnnnnnnnn (ex. 20190926164814)	FW version	F
GET	Usage hour	~xx108 n	n=1	7E 30 30 31 30 38 20 31 0D	Oknnnnn	Suage hours	F
GET	Device type	~xx149 n	n=1	7E 30 30 31 34 39 20 31 0D	OK2	Device type = IFP	F
GET	Information string	~xx150 n	n=1	7E 30 30 31 35 30 20 31 0D	OKabbbbbccddddee (Refer to Note ^(*))		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
GET	Information string	~xx150 n	n=16	7E 30 30 31 35 30 20 31 36 0D	OK1	Power mode (standby) = Active	F
			n=17	7E 30 30 31 35 30 20 31 37 0D	OK0	DHCP = Of	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			

ADDITIONAL INFORMATION

Note: (*1)

Power	Running Time	Input Source	Firmware Version	Display Mode
<ul style="list-style-type: none"> • <i>a=0 Power Off</i> • <i>a=1 Power On</i> 	<i>Usage hours = nnnnn</i>	<ul style="list-style-type: none"> • <i>cc=02 VGA1</i> • <i>cc=05 Video</i> • <i>cc=07 HDMI1</i> • <i>cc=08 HDMI2</i> • <i>cc=10 Compnent</i> • <i>cc=14 HDMI3</i> • <i>cc=15 DisplayPort</i> • <i>cc=18 Android</i> • <i>cc=19 Slot in PC</i> 	<i># # # #</i>	<ul style="list-style-type: none"> • <i>ee=01 Presentation</i> • <i>ee=02 Bright</i> • <i>ee=03 Cinema</i> • <i>ee=05 User</i> • <i>ee=21 HDR</i>

LED Indicator

Power LED Color & Behavior	Status
Solid Red	Standby mode
Solid Blue	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 “Selecting an Input Source” 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, try the automatic screen adjustment 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 $\pm 30^\circ$ to the IR receiver on the IFP.
 - Make sure there are no obstructions between the remote control and the IFP. The distance between the remote control and the IR sensor window should not be longer than 8 meters.
 - 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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