

innex CM Series

FIRMWARE USER MANUAL V1.0

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1. Introduction

1.1. How to use this Innex Meeting Hub CM Series Firmware Manual

Innex Meeting Hub CM is an all-in-one IFPD with the built-in BYOM Innex Connect Pro Receiver application. This manual provides an overview and explanations of the important firmware settings and features. The sequence of the section topics are organized to ensure proper installation and setup with the most important one in the beginning.

It is advised that the technician or the IT administrator who is setting up the CM reads through section 2, 3, 4, 5, 6, 9 This will ensure that the system settings, network and Innex Connect Pro are set up properly.

To understand how to use the CM, we recommend focusing on section 6, 7, 8 and 9 that covers the Connect Pro, Sidebar, Whiteboard, and Finder.

To shorten the reading time, users who are mainly using laptop BYOM features by the Connect Pro button, should focus on below:

- 4. Home Page Overview
- 6.1 Connect Pro Overview
- 6.2 Connect Pro Terminology
- 6.4.4 Connect Pro Status & Control Panel
- 6.7 Connect Pro Button Connection

Users who wish to use additional features in Android may read additional sections in:

- 7. Side Bar
- 8. Whiteboard

Throughout the user manual, there are important messages highlight by ****Note:** or ****IMPORTANT:**

****Note:** means the point mentioned after is important, however it wouldn't become a critical issue if overlooked.

****IMPORTANT:** means the point mentioned is likely to create an issue if not observed and followed. It is advised to pay attention to these points throughout the entire user manual.

1.2. CM Series Website - [Go to website](#)

1.3. CM Series Datasheet - [Go to Datasheet](#)

1.4. Hardware Quick Start Guide - [Go to Quick Start Guide](#)

It is recommended that users read the hardware quick start guide before starting on this firmware user manual.

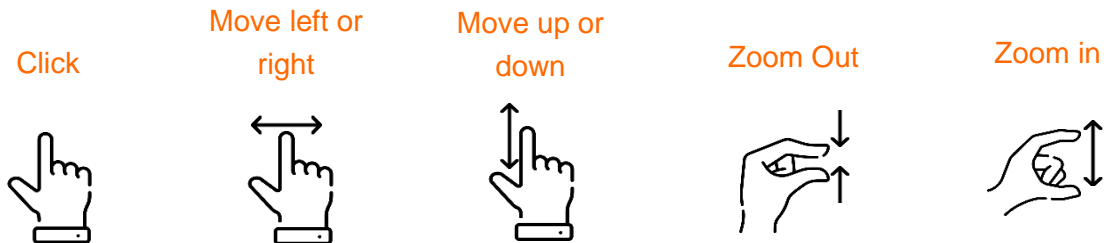
1.5. Copyright

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2. To Interact With The CM Series

2.1. Finger

Users may interact with the CM series through finger touch.



2.2. Innex Pen

Users may interact with through the Innex Pen. The Innex Pen is an active pen that sends active signal and can be used to interact with the CM. The front tip sends the pen signal, and the back sends the eraser signal.



These signals will trigger pen and eraser behavior in the built-in Android Whiteboard app. For Windows laptop that is connected to the CM the Innex Pen supports Microsoft Pen Protocol 2.0 (MPP2.0) at 4096 pressure levels applicable to applications such as the Microsoft PowerPoint, Excel, Word, OneNote, Whiteboard, Edge browser and more. To interact with the built-in Android UI, and the Windows UI, the pen or eraser acts as a single finger.

Pen tip acts as pen.

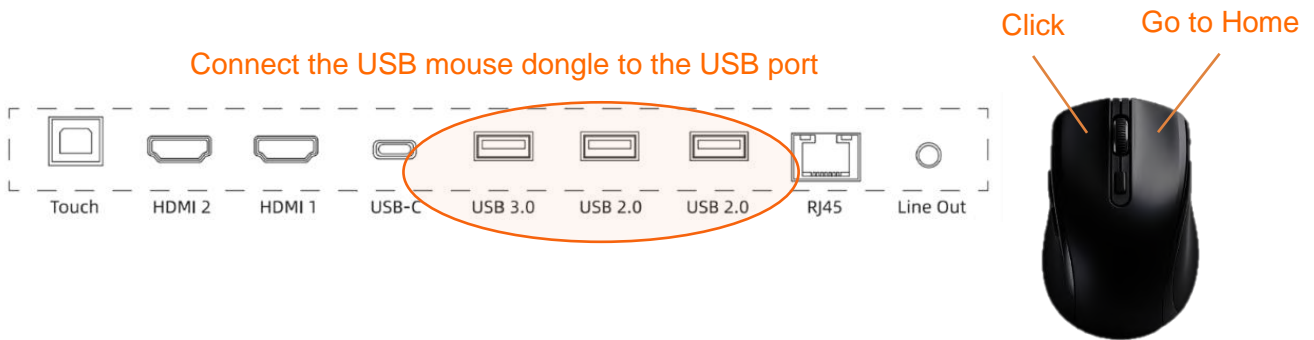


Eraser acts as eraser.



2.3. USB Mouse

Users may interact with the CM using a USB mouse. The mouse left click works as the single finger touch and can interact with the Android UI of the CM. The mouse right click will return to CM Home Page. This applies in channel of OPS or HDMI1,2, or Screenshare.



Move the mouse and mouse cursor will appear on screen



2.4. Remote Control

Users may interact with the CM by using the remote control.



[Go to section](#)

[Go to section](#)

[Go to section](#)

[Go to section](#)

[Go to section](#)

[Go to section](#)

[Go to section](#)

System (In white)

	Power		Home
OPS	Switch source to OPS	HDMI 1	Switch source to HDMI 1
HDMI 2	Switch source to HDMI 2		Switch source to Screen Share
	Setting		Task
	Menu		Finder
	Backlight off		Touch lock
	Screen capture		Return
	Vol -		Vol +
	Mute		

Camera (In blue)

	Adjust camera viewing position	OK	Confirm
	Camera On/Off		Mirror OSD
	Mic On/Off		Auto-framing
	Gallery		Speaker tracking
	Zoom out		Manual
	Zoom in		

2.4.1. System Buttons (White Prints)

The system buttons are painted white on the remote control. Most buttons overlap with the UI interface. For those that do, the corresponding sections in the user manual are linked for better understanding

2.4.2. Camera Buttons (Blue Prints)

The camera buttons are printed blue on the remote control. Users can use these buttons to switch to different camera mode and electronically pan, tilt and zoom in the manual mode. The camera will turn on in the auto-framing mode by default. Users may press the button of Auto-framing, Gallery, Speaker tracking or Manual to change the camera mode accordingly.

2.4.2.1. Auto-Framing (Default mode)



Auto-Framing automatically detects where people are seated within its wide-angle view, centers them in the frame, and trims excess space on both sides.

Before Auto Frame



After Auto Frame



2.4.2.2. Speaker Tracking Mode



Based on auto-framing, speaker Tracking mode detects and tracks the active speaker.

Before Speaker Tracking



After Speaker Tracking

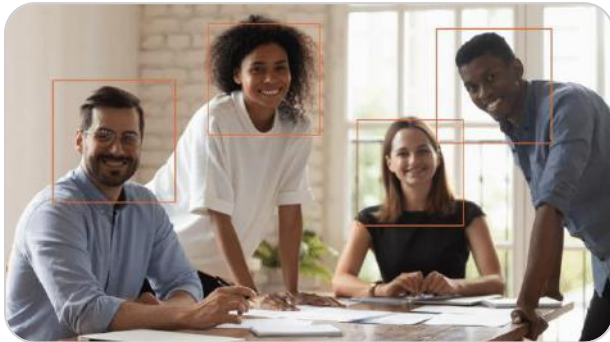


2.4.2.3. Gallery Mode



Gallery mode detects up to 5 people and creates an individual close-up shot for each person, providing an immersive meeting experience.

Before Gallery Mode



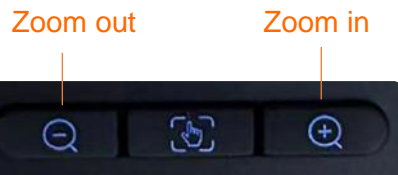
After Gallery Mode



2.4.2.4. Manual Mode



Manual mode allows users to manually create any field of view (FoV) by using the electronic pan, tilt and zoom (ePTZ).



Arrow keys to pan in the same direction



****IMPORTANT:** 1) the zoom in, zoom out and arrow keys only work in the manual mode, pressing them in AI mode has no effect. 2) The manual mode always starts in the full FoV (Most zoomed out). At full FoV the panning would not work as there is no more area to pan to. 3) The ePTZ result does NOT get remembered by the camera, if the camera stream is re-connected (such as after a camera source switch or camera turn off and on in a video conference call), the manual mode always starts in the full FoV.

Before Zoom In



After Zoom In



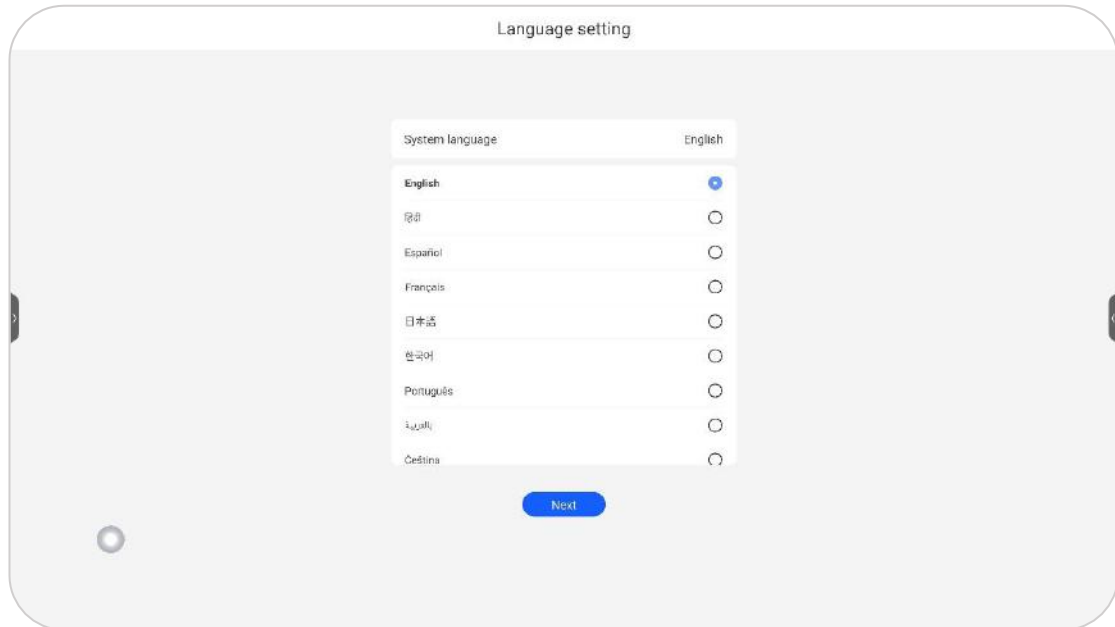
2.4.3. Camera Behavior Summary

Below is a summary of how the camera behaves after the video stream reconnects with a video conference application (camera switches, or camera on/off) and after a power reboot.

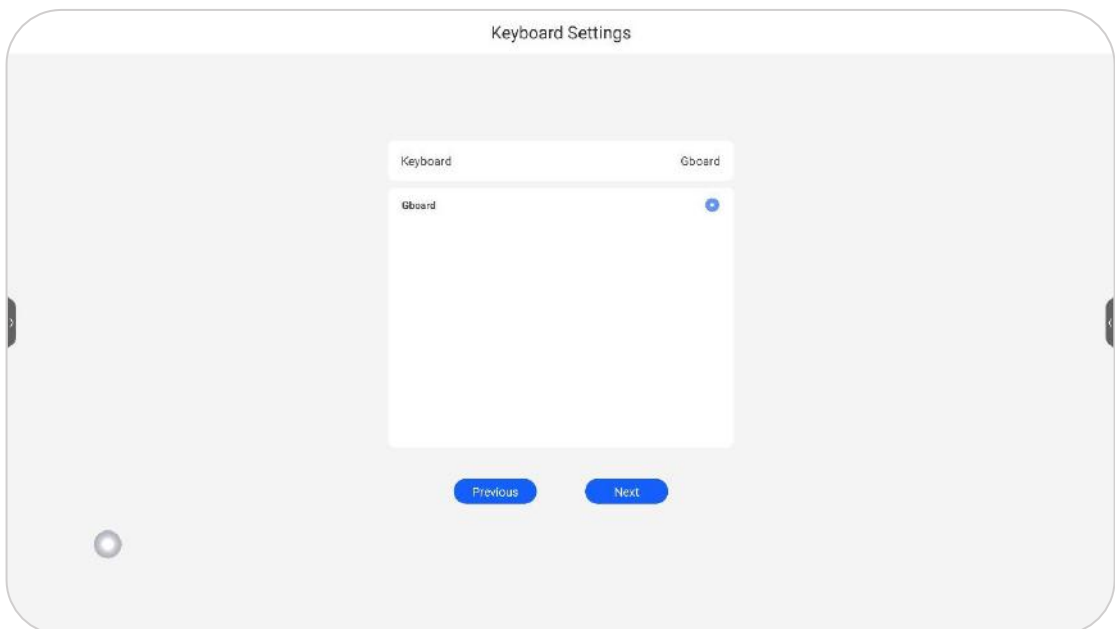
Last Open Mode	After CM power reboot	CM Power remain on Only video re-connects (camera switch, or camera on/off)
Auto-framing	Always starts in Auto-Framing	Refresh in Auto-framing
Gallery		Refresh in Gallery
Speaker Tracking		Refresh in Speaker Tracking
Manual		Refresh in Manual (reset last ePTZ position)

3. Setting up for the first time

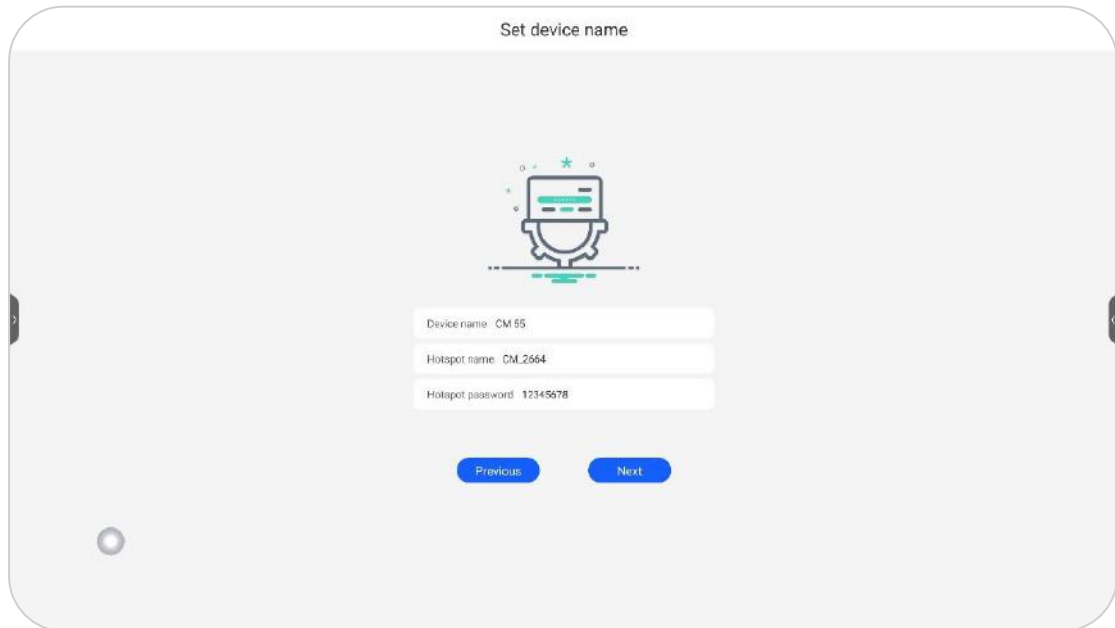
3.1. Select language



3.2. Initialize keyboard



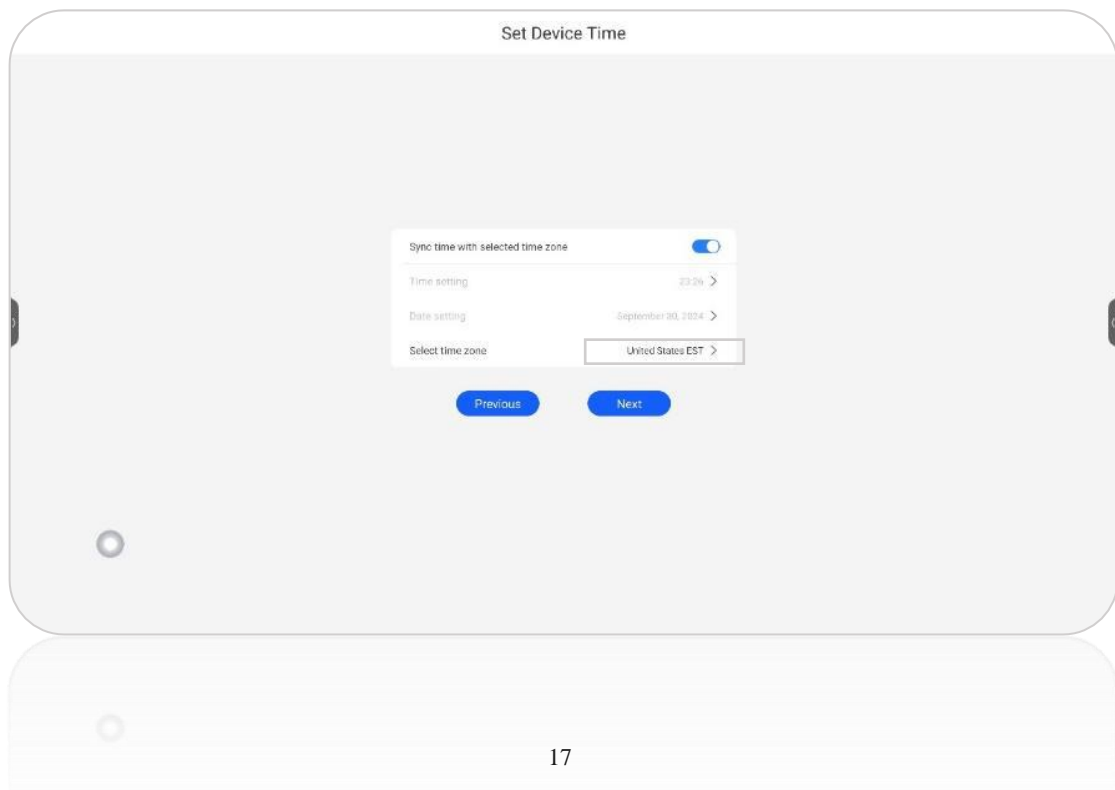
3.3. Set device name and hotspot name and password

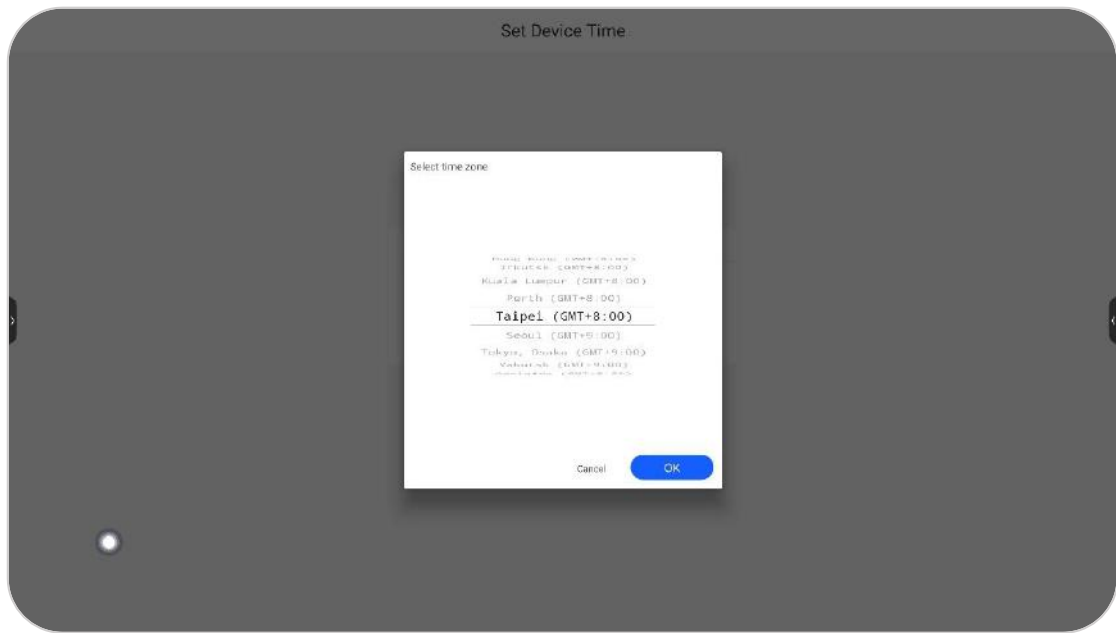


3.4. Set device time

3.4.1. Sync time with selected time zone

CM does not automatically update to the correct time according to its current location. Users need to manually select the time zone for the CM to sync the date and time correctly.





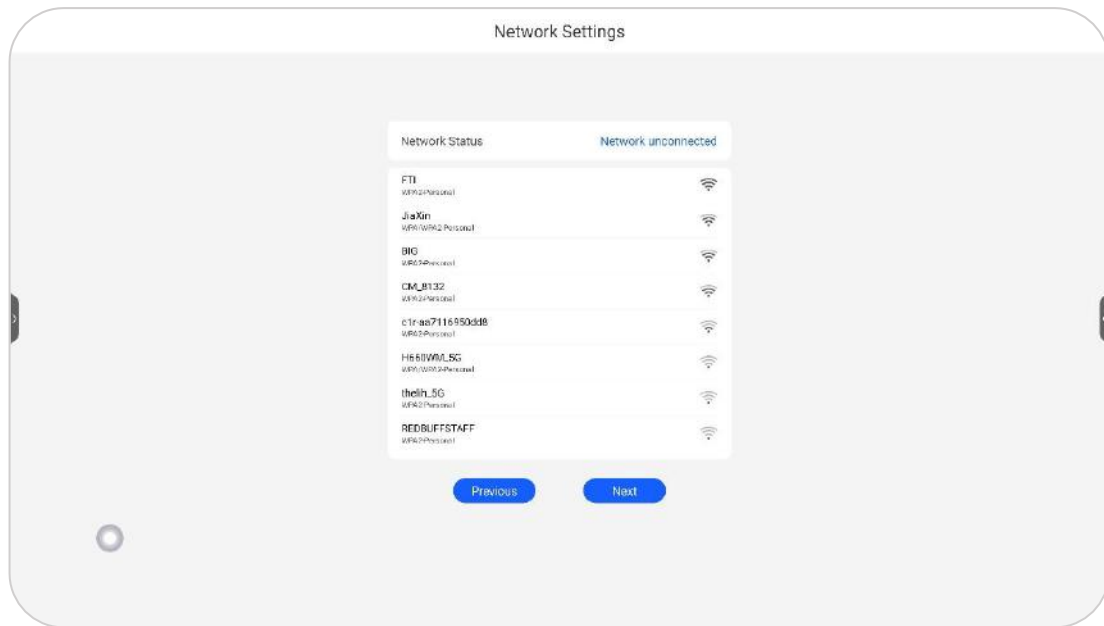
3.4.2. Set time manually



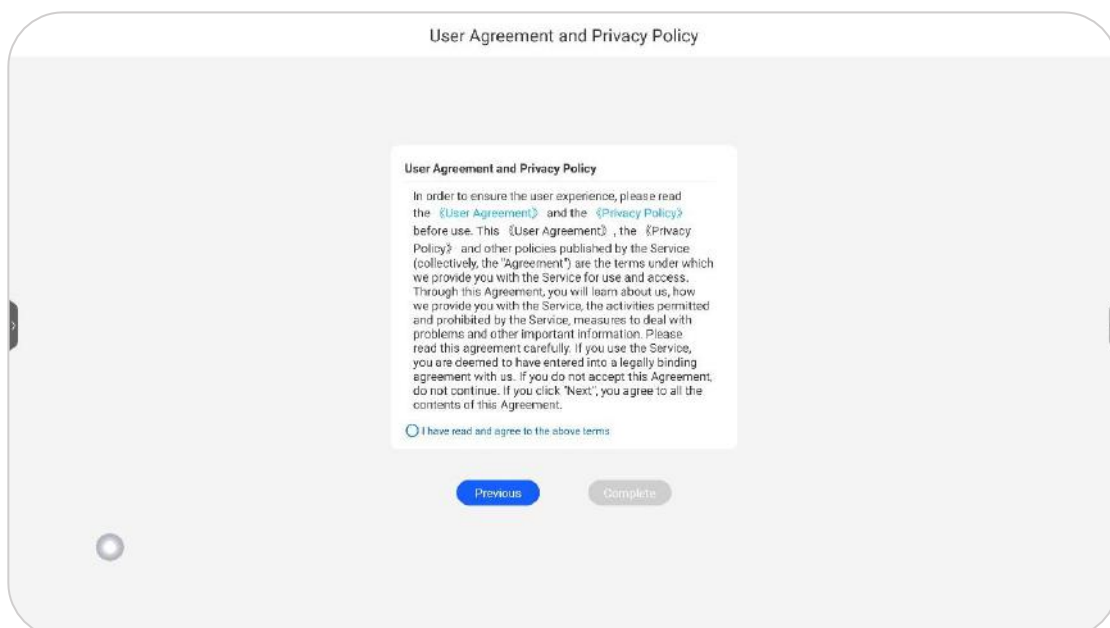
3.5. Network Setting

Users are suggested to select a WI-FI network that allows the CM to connect to the internet at least one time, as this is crucial for the wireless Connect Pro Receiver to register and activate.

****IMPORTANT:** This process needs to be repeated every time after a FW update or factory reset.



3.6. Accept user agreement and privacy policy



4. Home Page Overview



- 1) Connect Pro Receiver Status & Control panel
- 2) Connect Pro Receiver Pin code.
- 3) System Setting
- 4) Network Status
- 5) Side Bar
- 6) Signal Source
- 7) Floating ball
- 8) Whiteboard
- 9) Connect Pro Receiver
- 10) Chrome Browser
- 11) File Finder

4.1. Connect Pro Receiver Status & Control Panel

The status icon indicates how many devices are currently connected to the CM. If there is just the icon without any number, it means it's ready to be connected. Any number will indicate the current connections. There is a dedicated section to explain more details. ([Go to section](#)).

****IMPORTANT:** The icon must be visible to indicate the Connect Pro Receiver is registered, activated, and properly functioning. If the icon does not show up, it may be due to the Connect Pro Receiver not being activated, or the built-in camera and mic is occupied by an external source such as the OPS or laptop.

No Icon – cannot connect



Icon visible – ready to connect

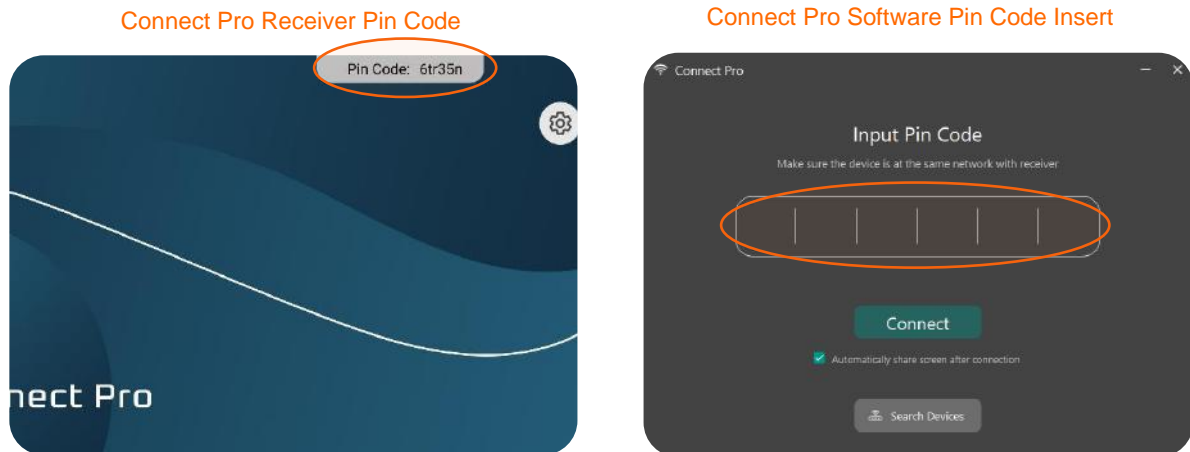


Icon visible – 1 device connected



4.2. Connect Pro Receiver Pin Code

Enabled by default, this is designed for the Connect Pro Software. Users simply input the pin code visible on the CM to connect their laptops. Users may disable the pin code and access additional features in Connect Pro Setting. There is a dedicated section to explain more details. ([Go to section](#)).

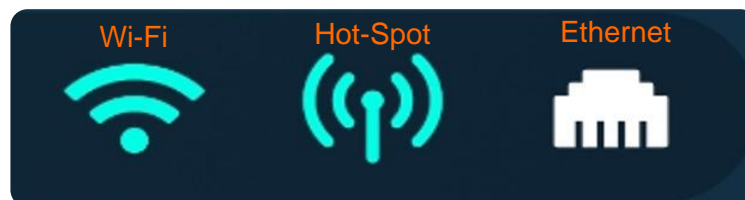


4.3. System Setting

This accesses the system setting. There is an entire section dedicated to explaining the details ([Go to section](#)).

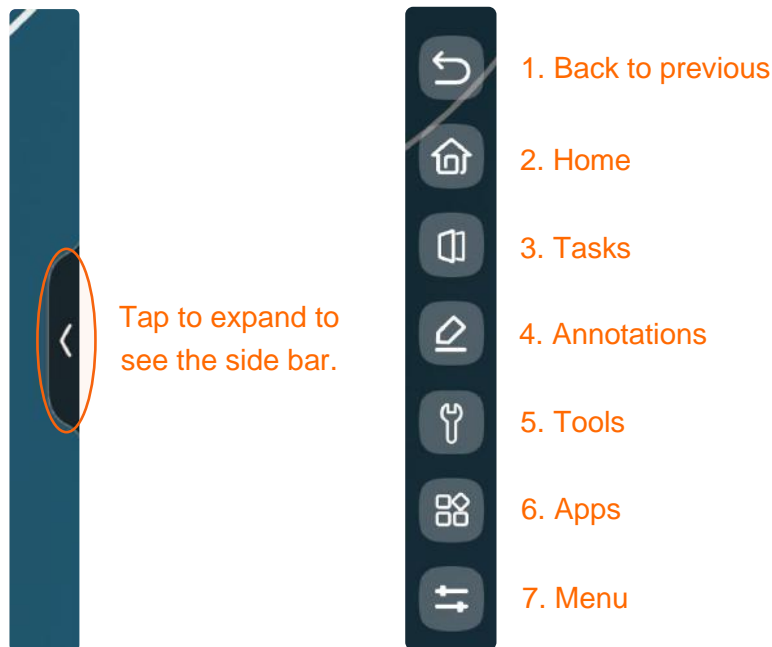
4.4. Network Status

This shows the current network status. If it is filled with light blue color, it means it's currently enabled.



4.5. Side Bar

Users may use the side bar to have quick access to settings, apps, tools, and features. There is a dedicated section to explain more details. [\(Go to section\).](#)



4.6. Signal Source

Users may quickly switch to external signal sources such as the OPS, HDMI1, HDMI2, or screen share. If an OPS is installed but not powered on, switching to OPS signal will power on the OPS.

****Note:** If there is no signal on the selected signal source, the CM will display a no signal on-screen notification (on OPS, HDMI1, HDMI2). This on-screen notification will remain on until the CM is turned off unless the sleep or power saving setting is enabled. If no device is screensharing, then the screen share source will display the Connect Pro Receiver Home

Signal Source



No Signal Notification



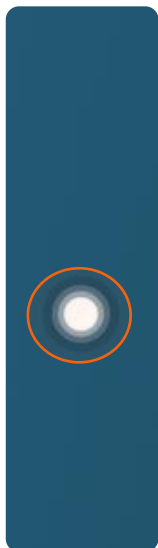
Connect Pro Receiver Home



4.7. Floating ball

Users may use the floating ball to access frequently used apps and tools. Simply press the floating ball to expand and feel free to add more short cuts by tapping the add icon to see all available selections.

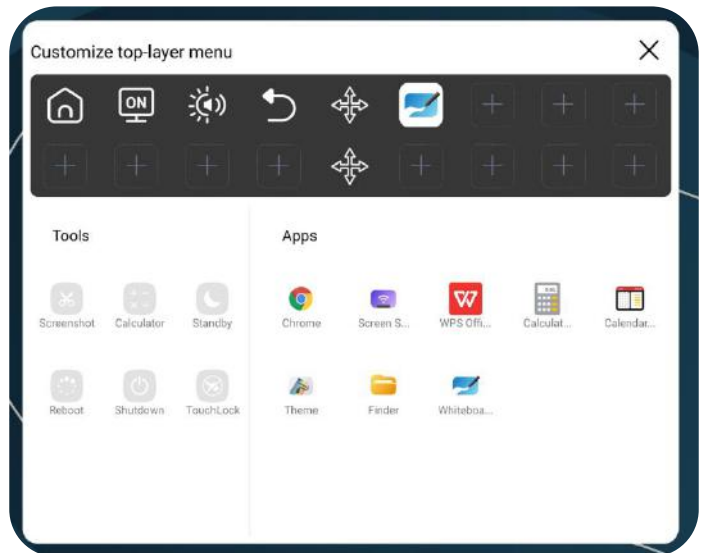
Tap the floating ball



Floating Ball Expanded

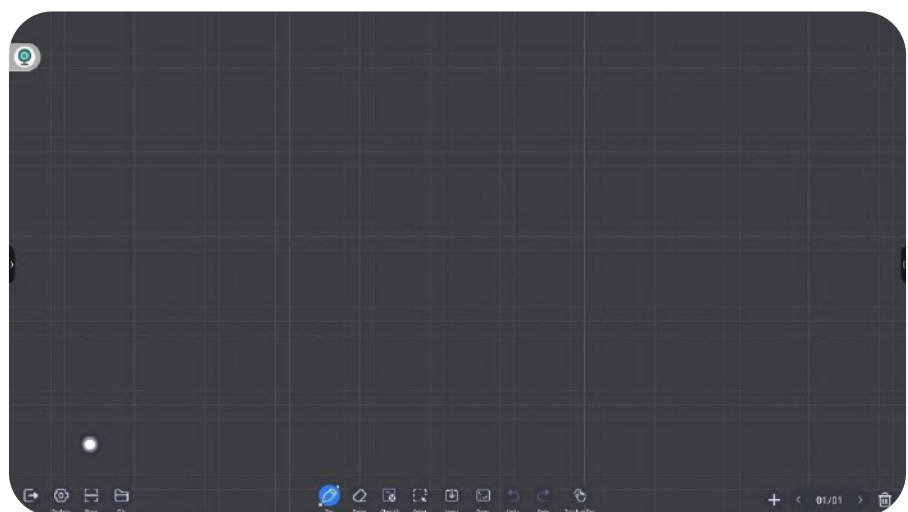
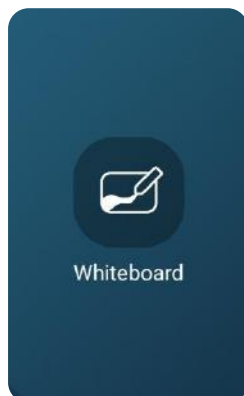


Available Tools & Apps



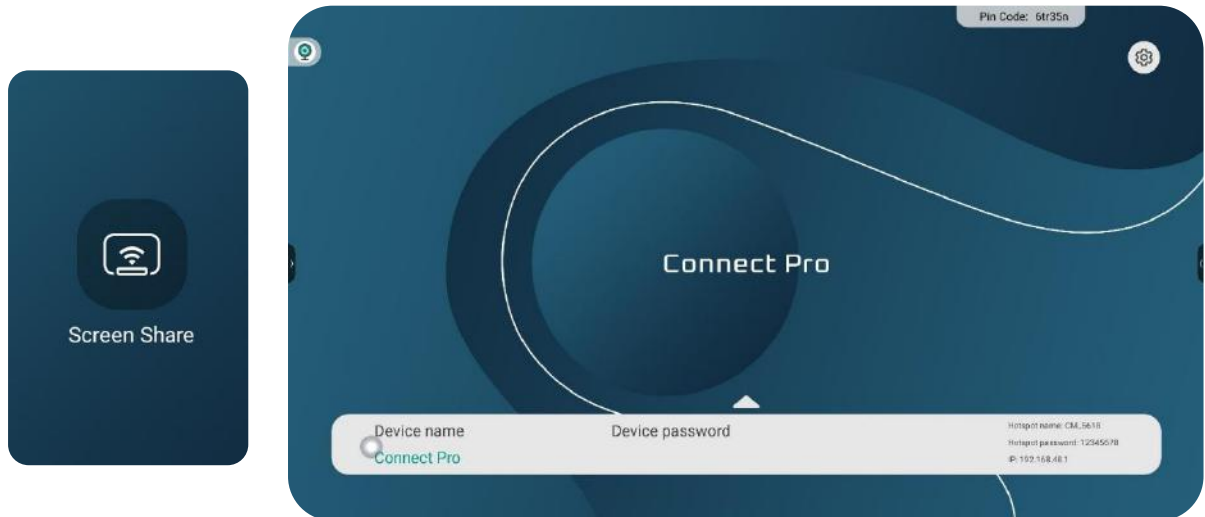
4.8. Whiteboard

Users may access a smart whiteboard. There is an entire section dedicated to explaining the details. [\(Go to section\)](#)



4.9. Connect Pro Receiver

Users may access the Connect Pro Receiver. There is an entire section dedicated to explaining the details ([Go to section](#)).

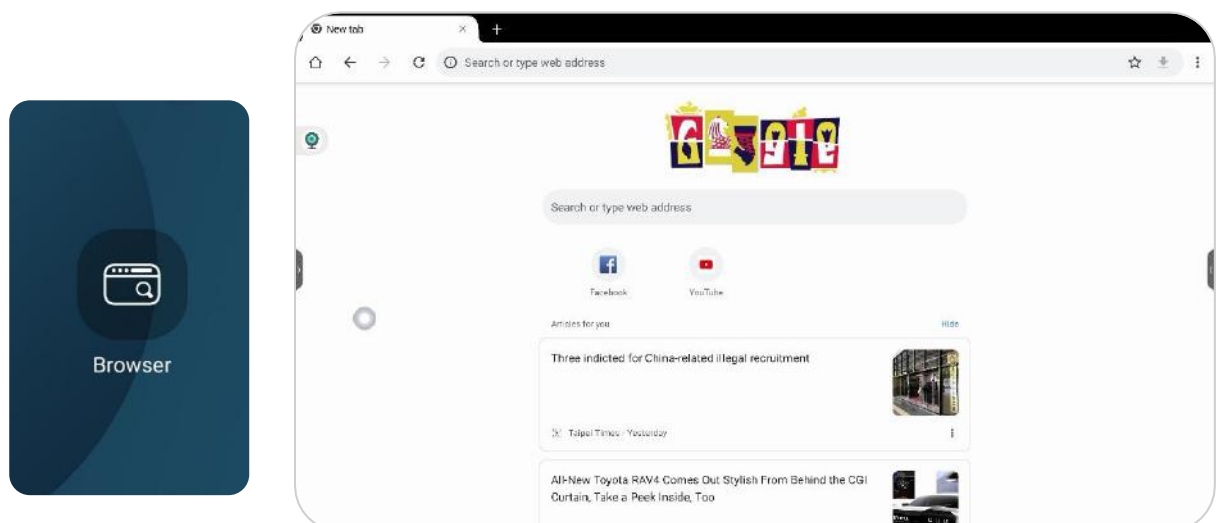


4.10. Chrome Browser

Users may use the Chrome Browser to browse website on the CM.

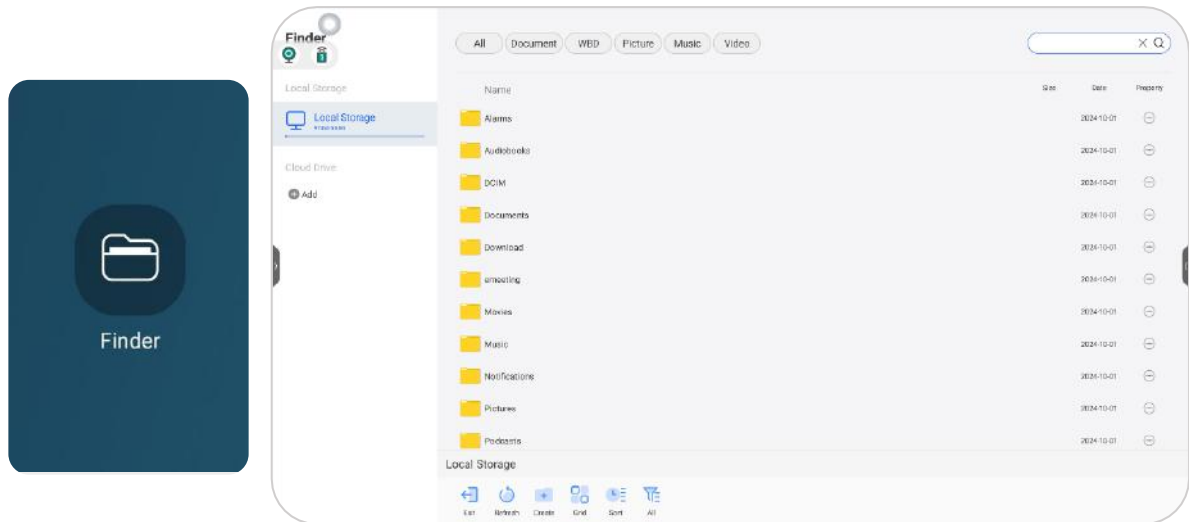
****IMPORTANT:** Users will need their discretion when accessing password sensitive website as CM is a public device.

****IMPORTANT:** 4K resolution video is NOT stable. It is advised to stream in 1080p in app such as YouTube.



4.11. Finder

Users may use Finder to access all the files in the local hard drive, external USB drive, and cloud drive. There is an entire section dedicated to explaining the details. ([Go to section](#)).

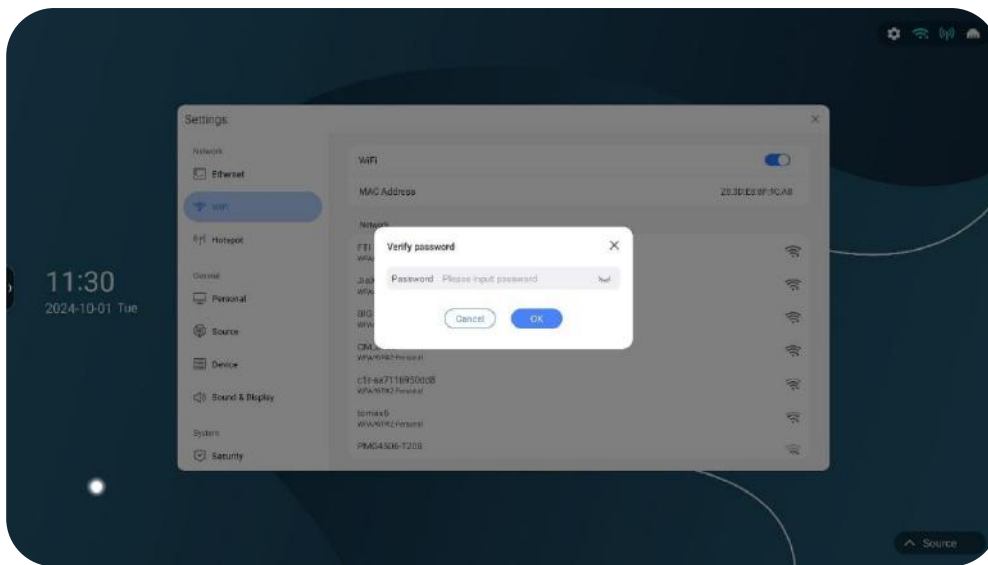


5. Setting

5.1. Access system setting

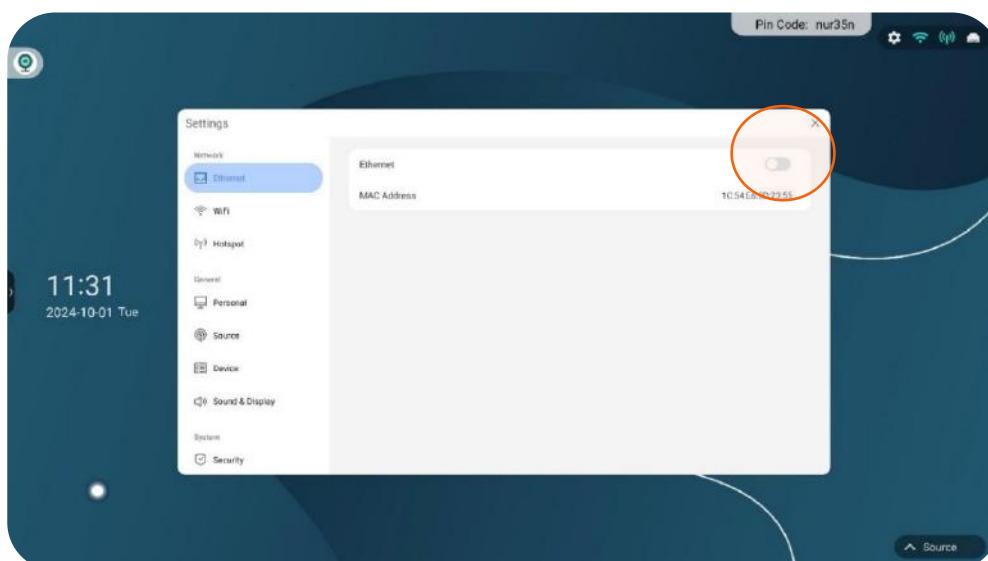
Security password is required to access the setting menu, the default password is 1234. The security password can be changed or disabled if required in the security setting.

****IMPORTANT:** If the password is modified and forgotten, users may use the hardware reset button at the back of the CM.

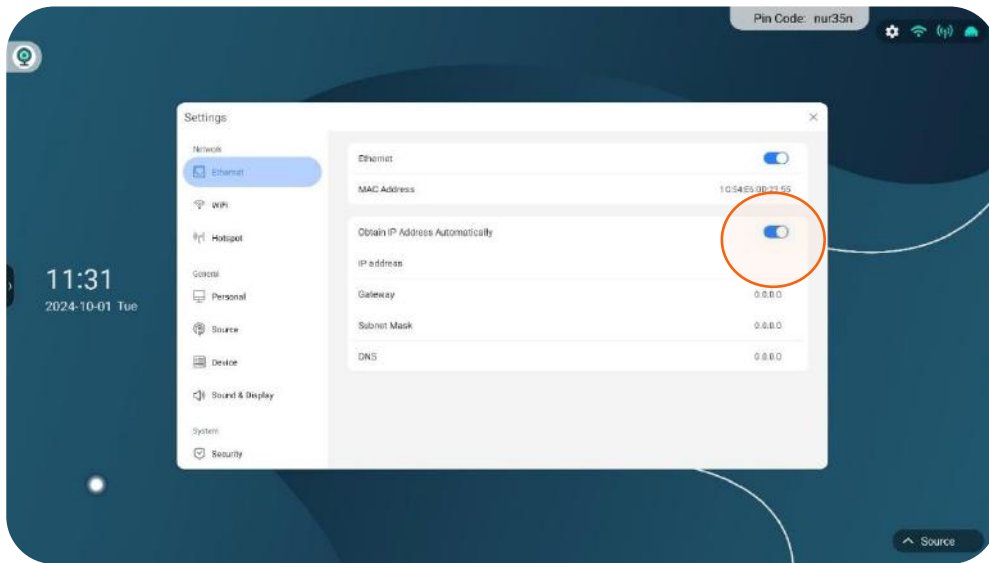


5.2. Ethernet setting

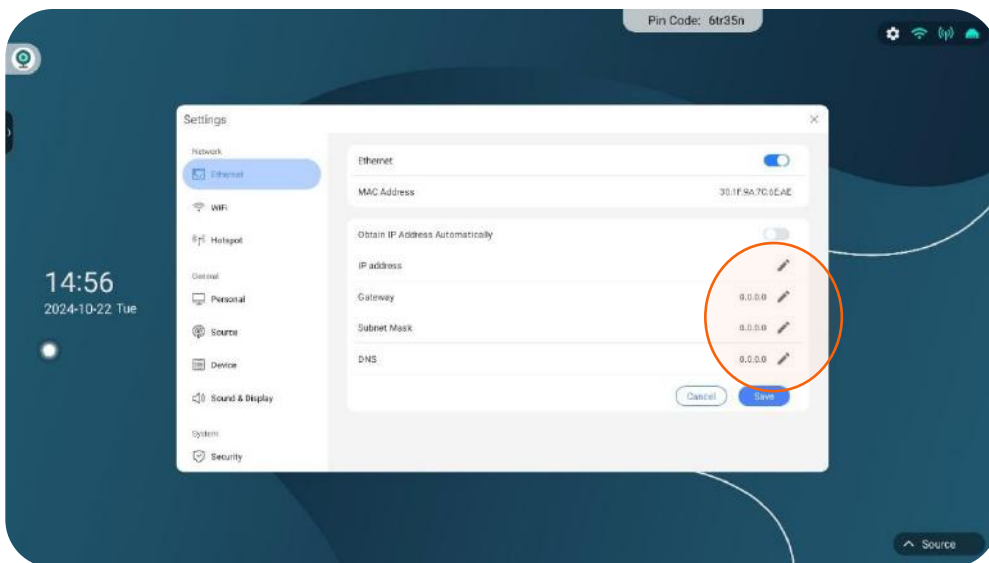
Ethernet access is disabled by default. Enable it to allow a LAN Connection.



Enable to obtain IP address automatically or



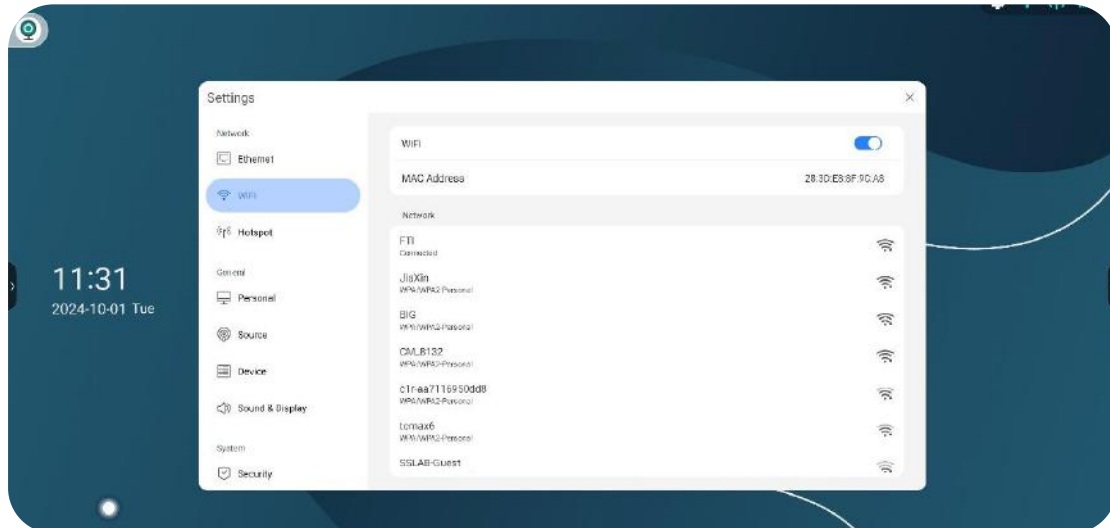
Or manually set the IP address.



5.3. Wi-Fi setting

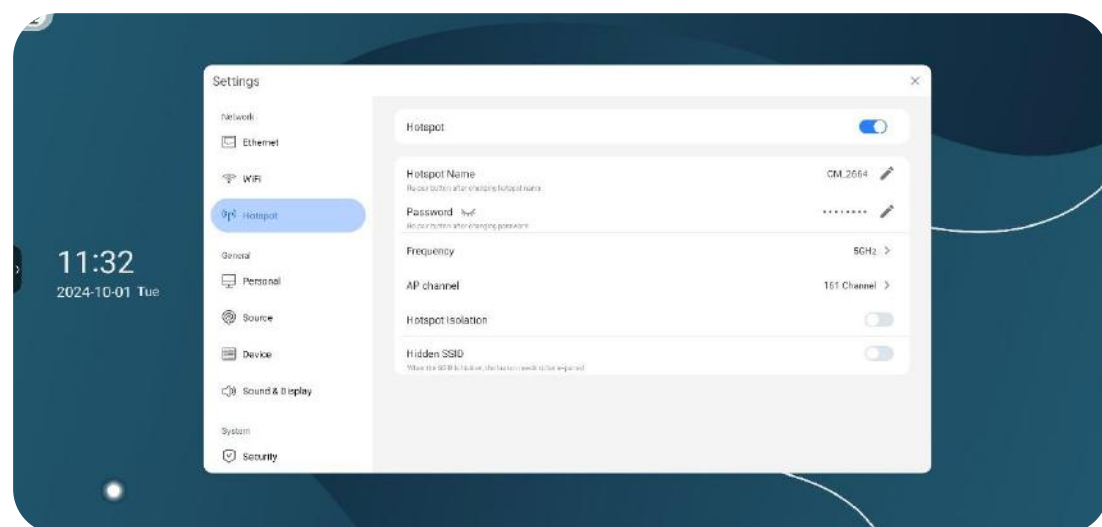
If a Wi-Fi network is connected during the initial setup, a list of available Wi-Fi networks will be visible here.

****IMPORTANT:** Allowing the CM to have one-time access to the internet is required to activate the wireless BYOD Connect Pro App.



5.4. Hotspot Setting

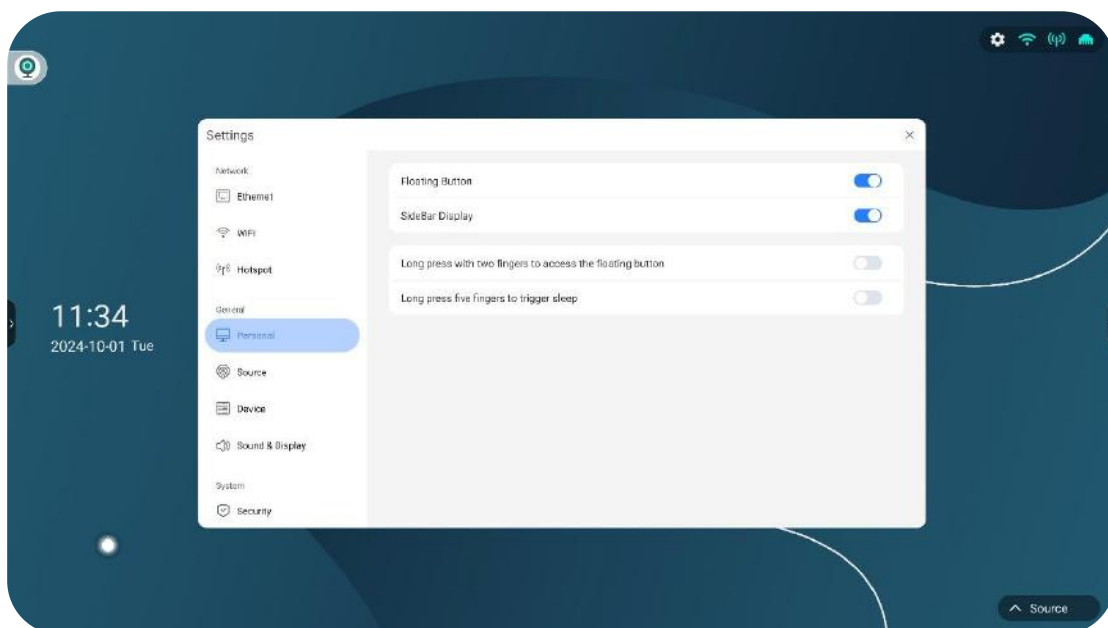
Hotspot is enabled by default. Users may change the relevant setting [here](#). ****IMPORTANT:** The hotspot must remain enabled for Connect Pro Button to work. The hotspot will be turned on after the CM reboots.



- **Hotspot name** – randomly generated, can be modified if required.
****IMPORTANT:** Please re-pair Innex Connect Pro Button after any modification
- **Password** – 12345678 by default, can be modified if required.
****IMPORTANT:** Please re-pair Innex Connect Pro Button after any modification
- **Frequency** – 5GHz by default. Choose between 2.4GHz and 5 GHz.
****IMPORTANT:** It is recommended to use 5GHz for better screen casting and camera streaming performance.
- **AP Channel** – If experiences delay or lag in screen casting or camera streaming, the existing channels may be too busy with network traffic. Try to switch to a different channel for improvement.
- **Hotspot Isolation** – disabled by default.
- **Hidden SSD** – disabled by default. Users may enable it to stop the device from broadcasting its SSID to other devices on the network.

5.5. Personal Setting

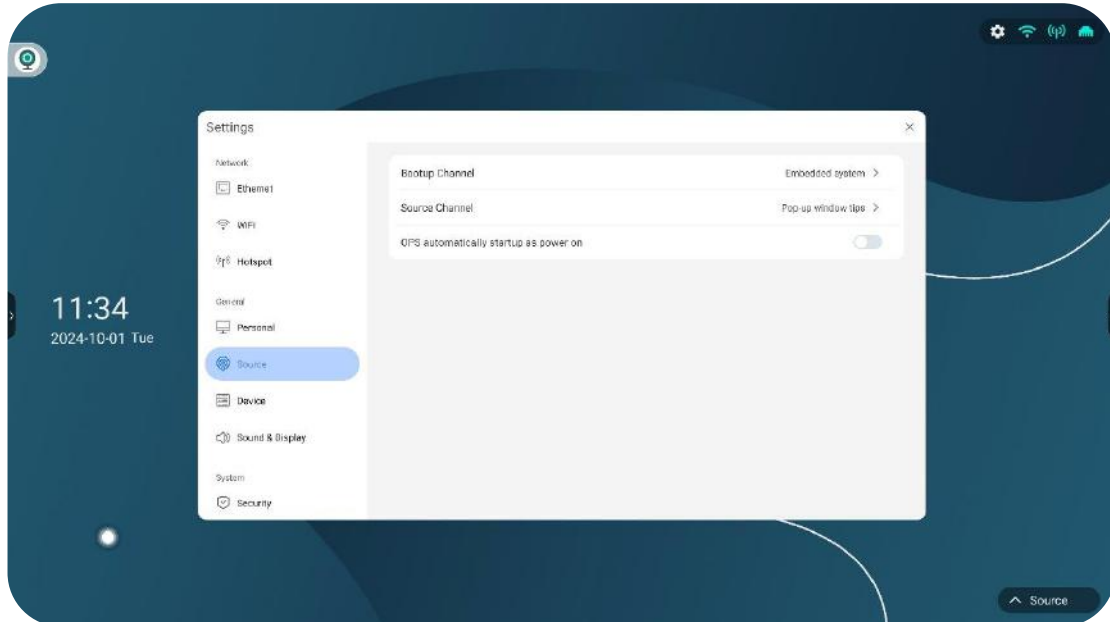
Users may modify settings to have a more personalized experience



- **Floating button** – enabled by default, users may want to disable it to prevent it from blocking what's on the screen.
- **Sidebar display** – enabled by default, users may want to disable it to prevent it from blocking what's on the screen.
- **Long press with two fingers to access the floating button** – the floating ball can be triggered with two fingers pressing on the screen. This is disabled by default to prevent this gesture from interfering with interacting the UI of the Windows laptop during screen castings or HDMI connections. Users may enable it to have a more convenient access to the floating ball.

- **Long press with five fingers to trigger sleep** – Disable by default, enable it if users wish to have a quick way to trigger device to sleep.

5.6. Source Setting



Bootup Channel – Choose the channel that the CM enters after booting up:

- **Embedded system** (Default option): The CM will launch to the android home screen.
- **OPS**: The CM will launch to the OPS PC. If no OPS PC is inserted, a no signal source image will show instead.
- **HDMI1**: The CM will launch into HDMI1. If no device is detected from HDMI 1, a no signal source image will show instead.
- **HDMI2**: The CM will launch into HDMI2. If no device is detected from HDMI 2, a no signal source image will show instead.

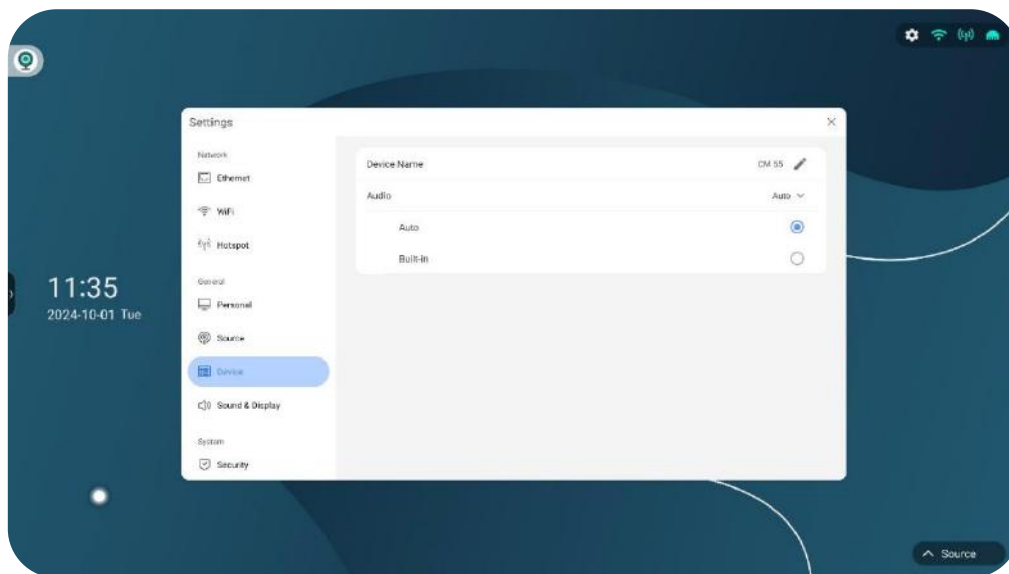
Source Channel – Dictate the channel switch behavior.

- **Auto Switch** – When a new channel source is detected, the CM switch channel automatically.
- **Pop-up windows tips** (Default option) – When a new channel source is detected, instead of switching automatically, a pop-up message will appear and request for confirmation.

OPS automatically startup as power on

This is disable as default, the OPS will only start when users switch the channel to the OPS. While this may save power consumption, it creates a delay in accessing the OPS. If the users plans to always have ready access to the insert OPS, it is advised to enable this option. **Note: if OPS is selected as the bootup channel option, this option will be enabled automatically.

5.7. Device Setting

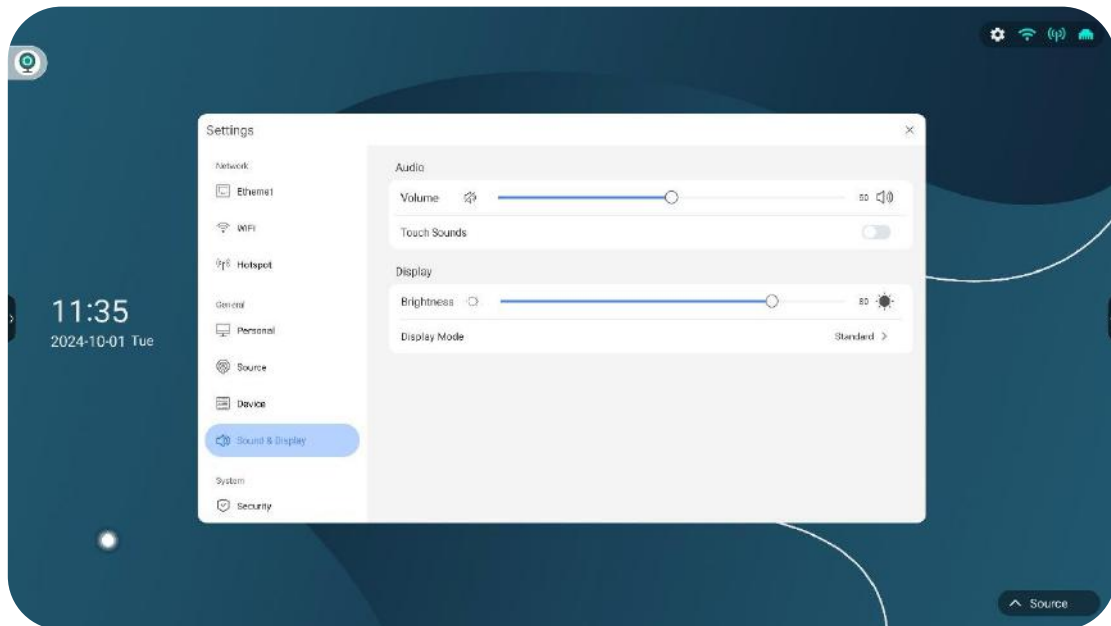


Device Name – Rename the device if required. The default name is CM.

Audio – Select audio input and output from the CM itself or other connected USB device that is connected to the USB port in the back of the CM. ****IMPORTANT:** please restart the CM when you connected an external USB audio device or make a setting change

- **Auto** – The CM will automatically use the latest connected USB device for audio.
- **Built-in** – The CM will always use its built-in mic and speaker for audio.
- **External device name** – The CM will always use the connected device for built-in mic and speaker for audio. The device name appears when a USB device is connected and detected by the CM.

5.8. Sound & Display Setting

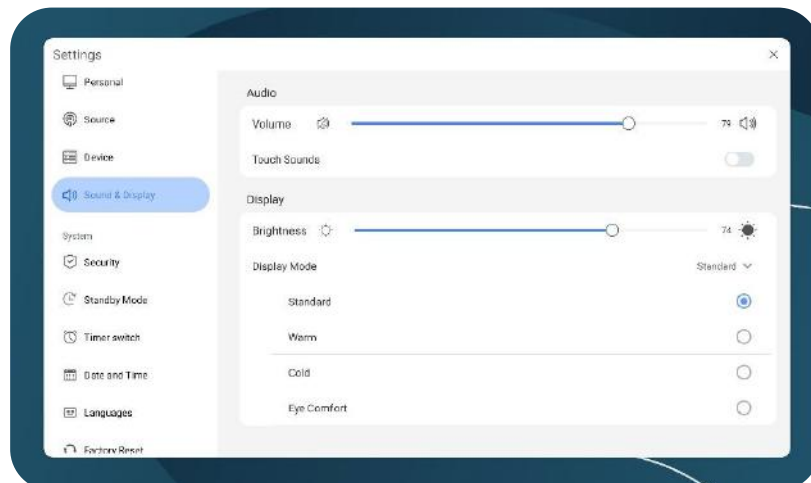


Audio setting

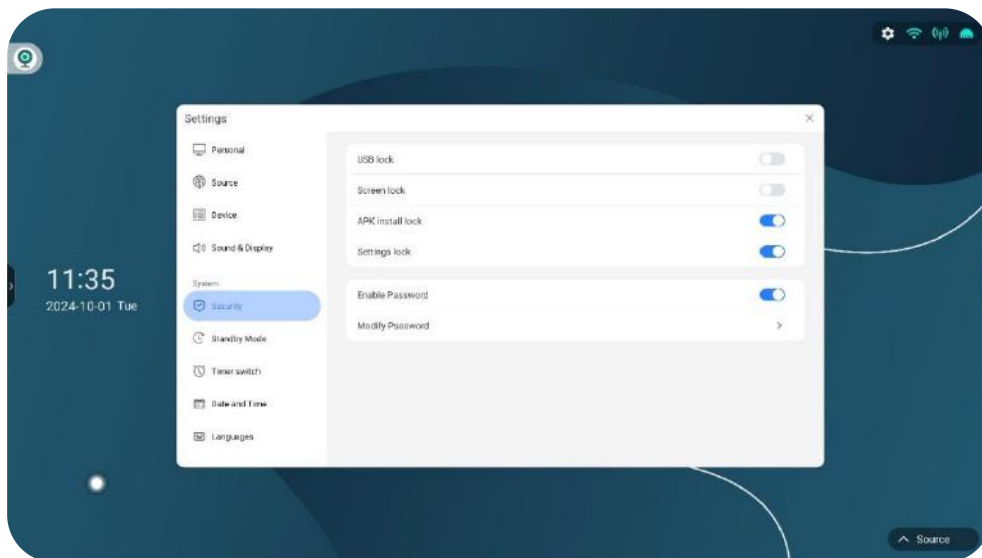
- **Volume** – adjust volume of the display. (The default setting is 50)
- **Touch Sound** – enable to have the touch sound triggered.

Display Setting

- **Brightness** – adjust brightness of the display, from 0 to 100. (The default setting is 80)
- **Display mode** – choose from the following display color options.
 - Standard (default option)
 - Warm
 - Cold
 - Eye Comfort

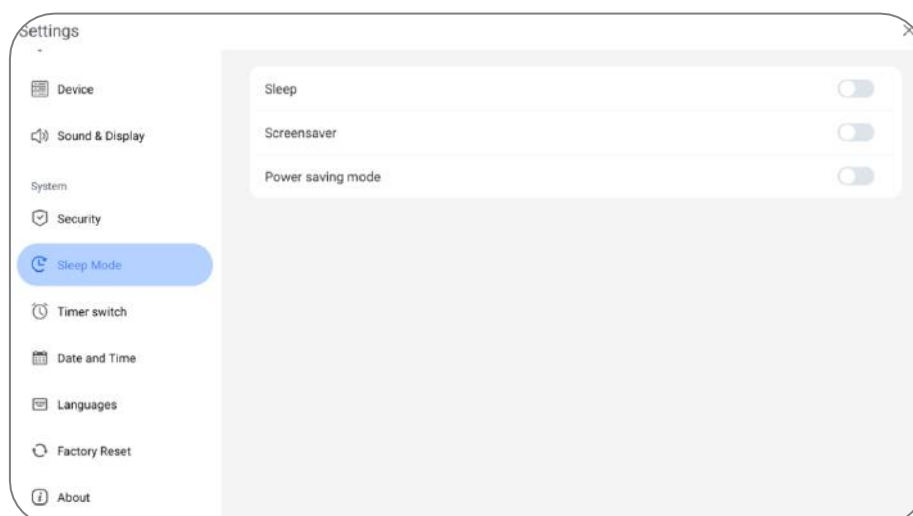


5.9. Security Setting



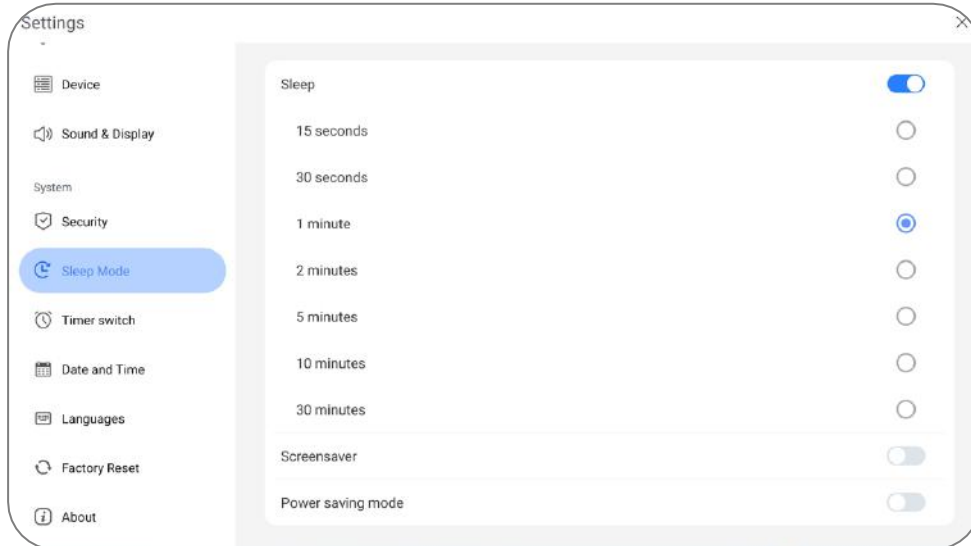
- **USB lock** – Disabled by default. Enable it to prevent CM from reading a USB drive.
- **Screen lock** – Disabled by default. Enable it to require typing in password to unlock the CM after reboot.
- **APK install lock** – Enabled by default. Disable it to install new android APK file.
- **Setting lock** – Enabled by default. Disable it to remove password requirement to access the setting page.
- **Enable password** – Enabled by default. Disable it to remove password requirement to system setting page.
- **Modify password** – Modify password here. (Default password is 1234)

5.10. Sleep Mode Setting



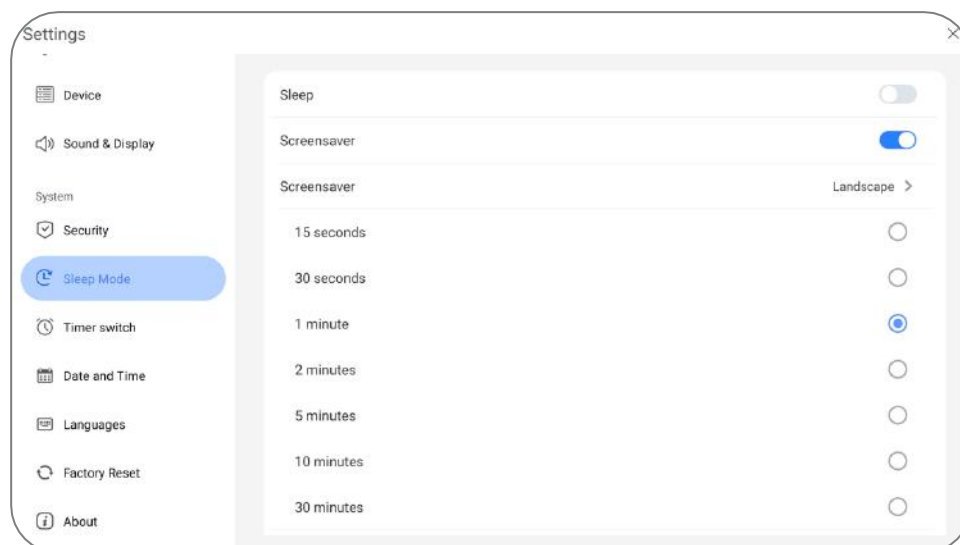
Sleep – Disabled by default. Enable it to set the required idle time before CM enters sleep mode. The available time selections are 15secs, 30secs, 1mins, 2mins, 5mins, 10mins and 30 mins.

****IMPORTANT:** The idle time countdown starts as soon as the sleep mode is enabled.



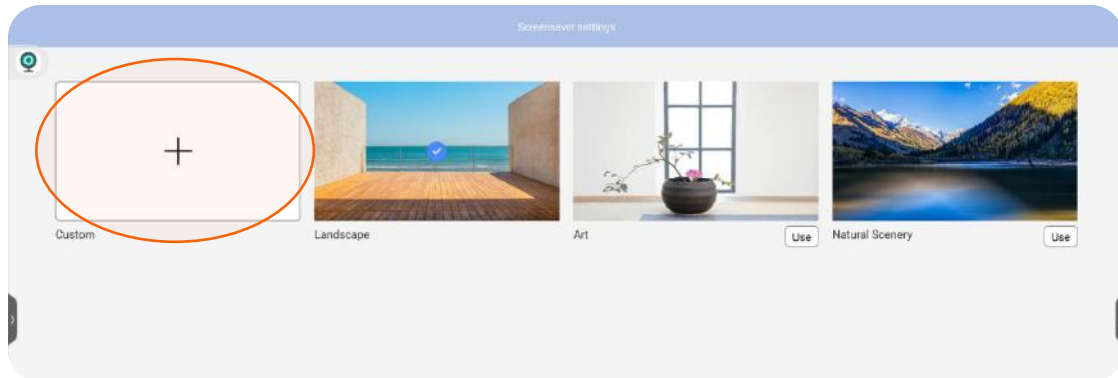
To exit sleep, touch the screen with a finger, press the display power button, or press the remote power button.

Screensaver – Disabled by default. Enable it to set the required idle time before CM enters screen saver mode. The available time selections are 15secs, 30secs, 1mins, 2mins, 5mins, 10mins and 30 mins. ****IMPORTANT:** The idle time countdown starts as soon as the screen save mode is enabled.

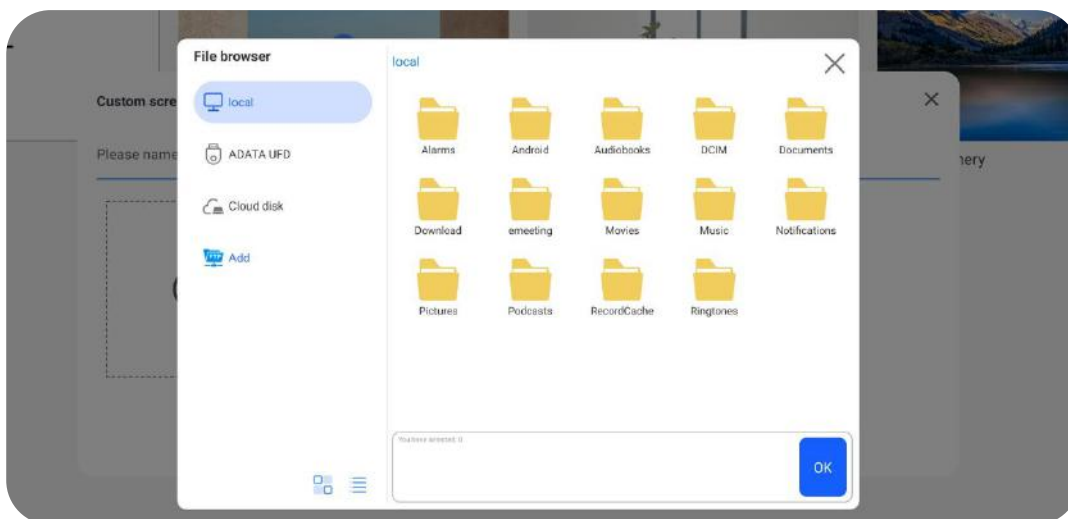


Default screen saver images are Landscape (default option), Art, and Natural Scenery. Users may create custom screen savers with images or video.

To create a custom screen saver, tap on custom.



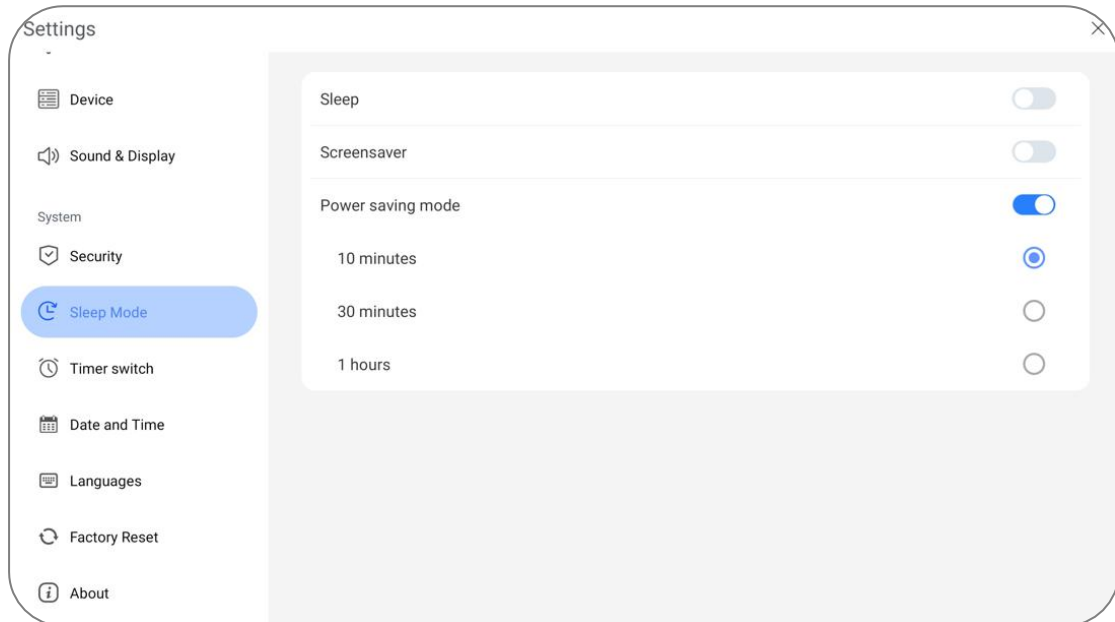
Select the file from the local storage, USB drive or cloud drive.



To create a custom screen saver, users must complete all the selection of files (Images or video can be used) before saving it with a custom name. The file selection cannot be modified in the future.

Power Saving mode – Disabled by default, enable it to set the required idle time before CM enters power saving mode. The

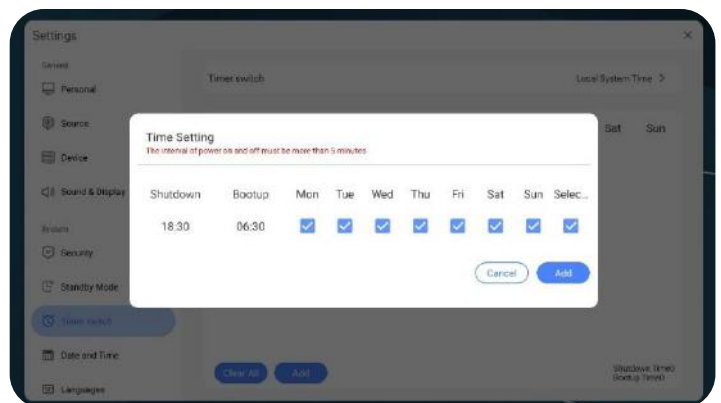
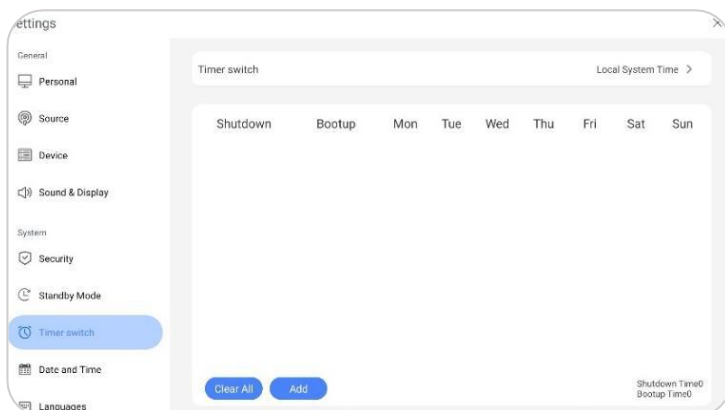
available time selections are 10, 30 and 60 minutes. ****IMPORTANT:** The idle time countdown starts as soon as the screen save mode is enabled.



****IMPORTANT:** Sleep Mode, Screen Saver Mode and Power Saving mode will be temporarily disabled during use of the whiteboard, annotation, or displaying other signal sources (HDMI1, HDMI2, Screen cast)

5.11. Timer Switch Setting

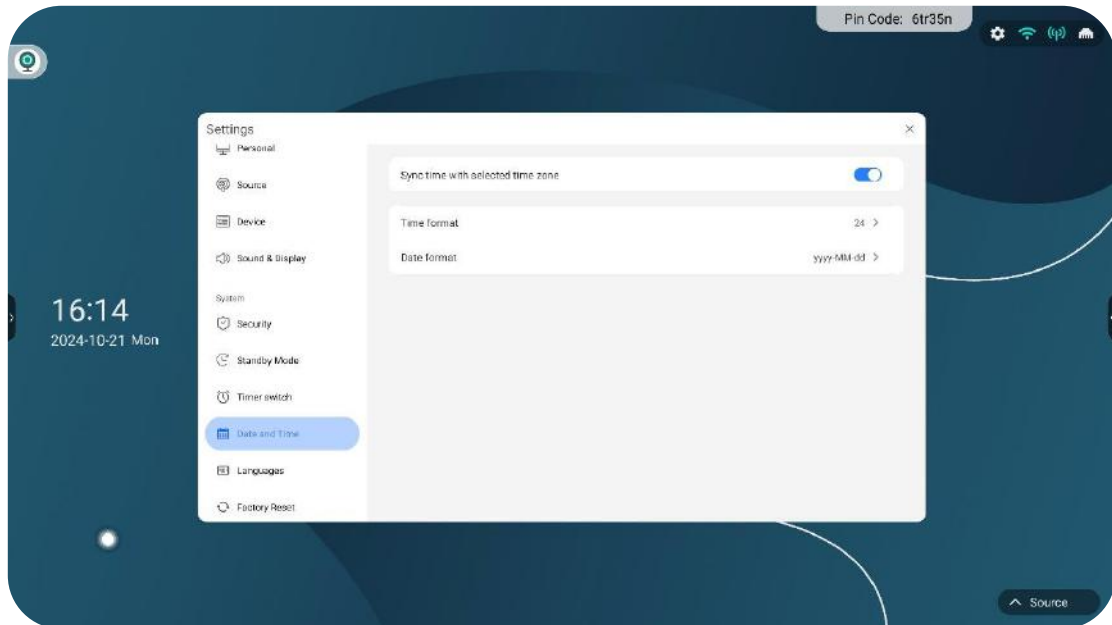
Users may set a daily timer to automatically bootup and shutdown the CM. Only 1 set of timers can be in effect.



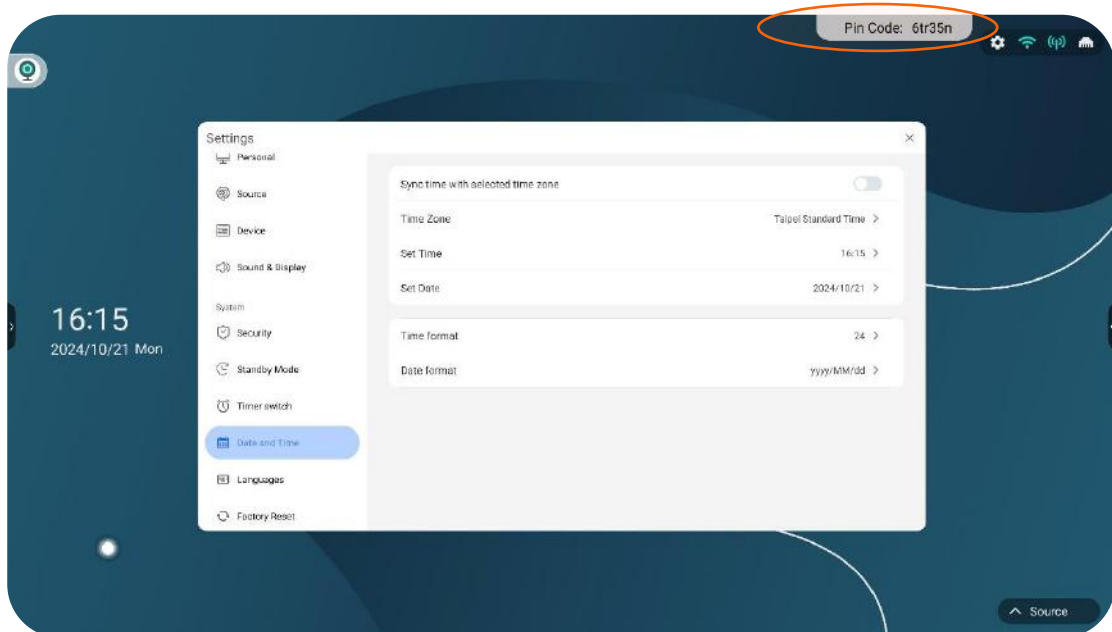
5.12. Date & Time Setting

Users may set date and time by choosing to sync time with a selected time zone or to set time manually.

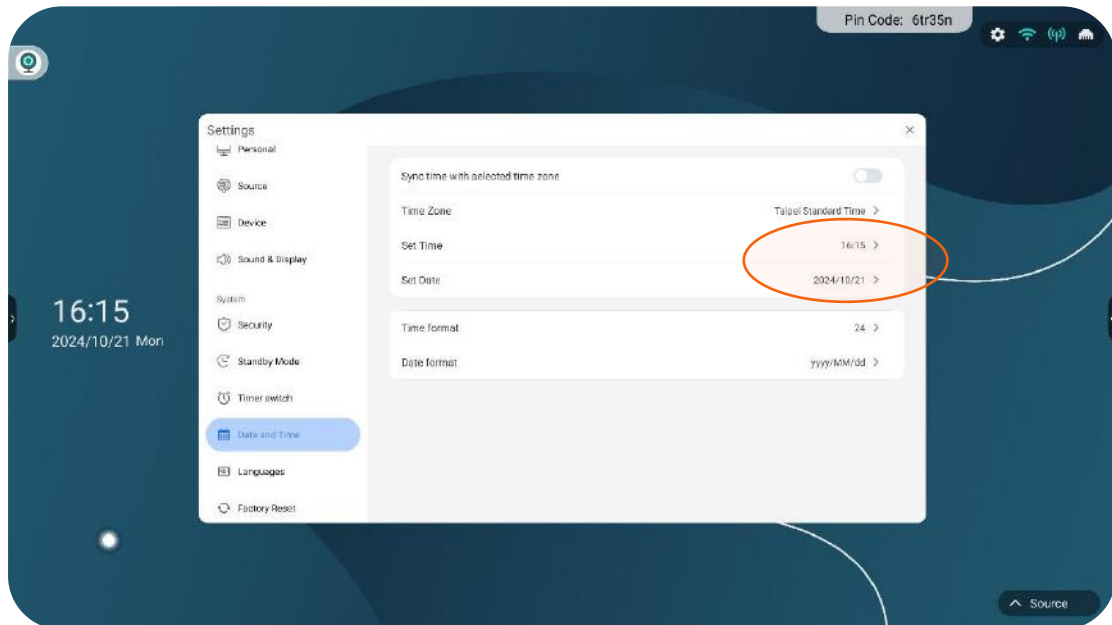
Sync time with selected time zone



Disable it and choose the time zone to sync the time with and turn the sync button back on.

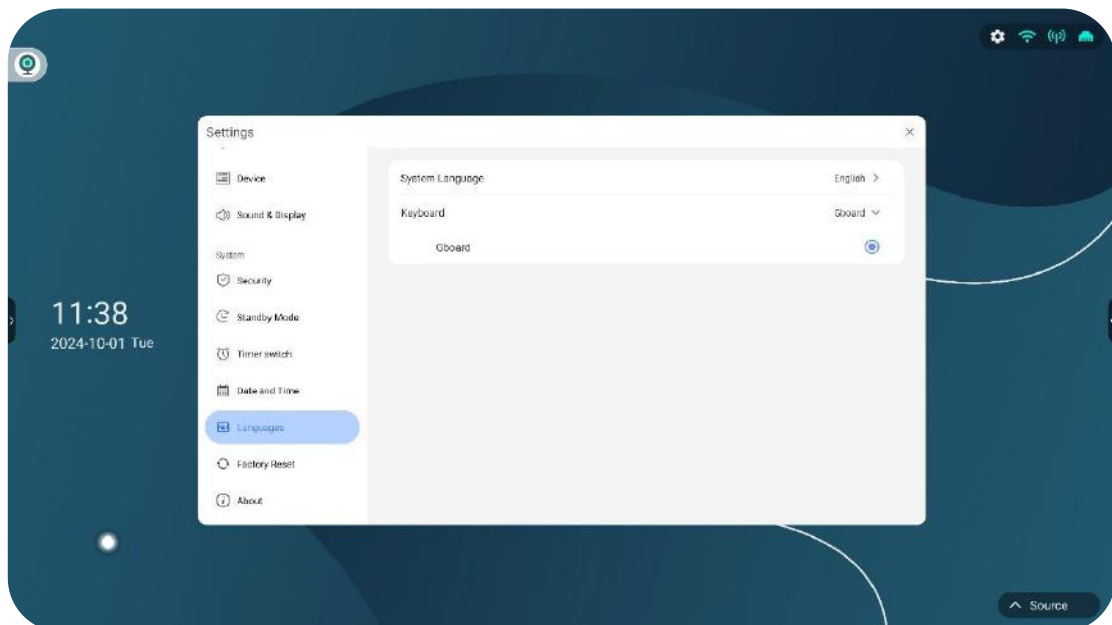


Or manually set the time and date



5.13. Change System Language

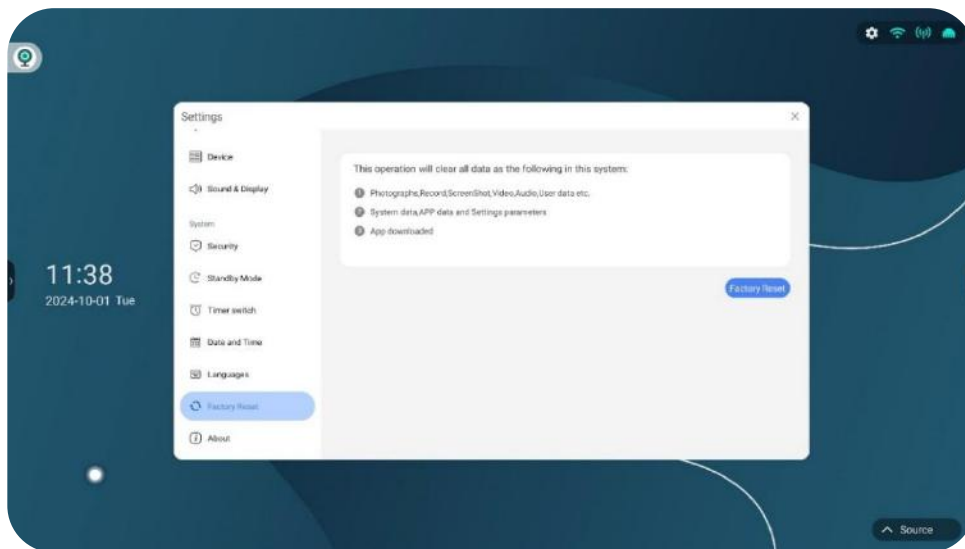
Users may change the system language here. The default and only usable keyboard is the Gboard.



5.14. Factory Reset

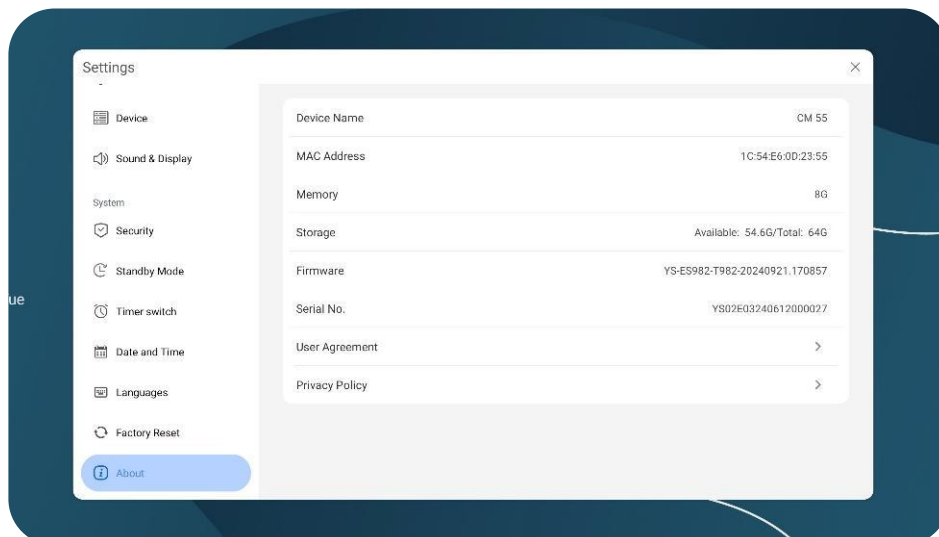
Users may factory reset the CM here if required. Please note that all files such as whiteboard, screenshots, annotation, multi-media files, office documents will be erased. All the settings such as the system setting, password, Connect Pro Receiver setting, and whiteboard setting will be reset. (There is currently no option to save and export and import setting.)

****IMPORTANT:** The Connect Pro Receiver will need to connect to the internet after factory reset to be activated again.



5.15. About

Users may find important device information of the CM, such as the device name, available storage, firmware version, and serial number.



6. Connect Pro Introduction

6.1. Overview

Connect Pro is a BYOM technology that supports device casting of screen image and sound and streaming of UC camera and microphones with touch back control. It supports multiple simultaneous devices casting by using the Connect Pro button, Connect Pro Software, or native casting such as: Airplay, Chromecast, and Miracast.

6.2. Terminology

Casting or Screen Sharing – to wireless project screen and sound from a laptop, a phone, or a pad to the display.

Camera and Microphone Streaming – to wirelessly access the camera and microphone of the display through the Connect Pro Button or Connect Pro Software.

Connect Pro Receiver – an application that receives screen and audio casting from connected devices, and also stream out the camera video and microphones to the Connect Pro Button or the Connect Pro Software.

Connect Pro Button – an actual button that is plug-and-play and supports laptops to cast screen and audio, and wirelessly access the CM camera and microphones.

Connect Pro Software – a Windows base software that allows the laptops to cast screen and audio, and wireless access the camera and microphones.

Native Casting – Casting protocol exists natively in platforms such as Windows, Android, and iOS or MacOS.

Airplay – Casting protocol for Apple iOS or MacOS devices.

Miracast – Casting protocol for Windows PC, and some android devices.

Chromecast – Casting protocol for Google Chrome Browser, and some android devices.

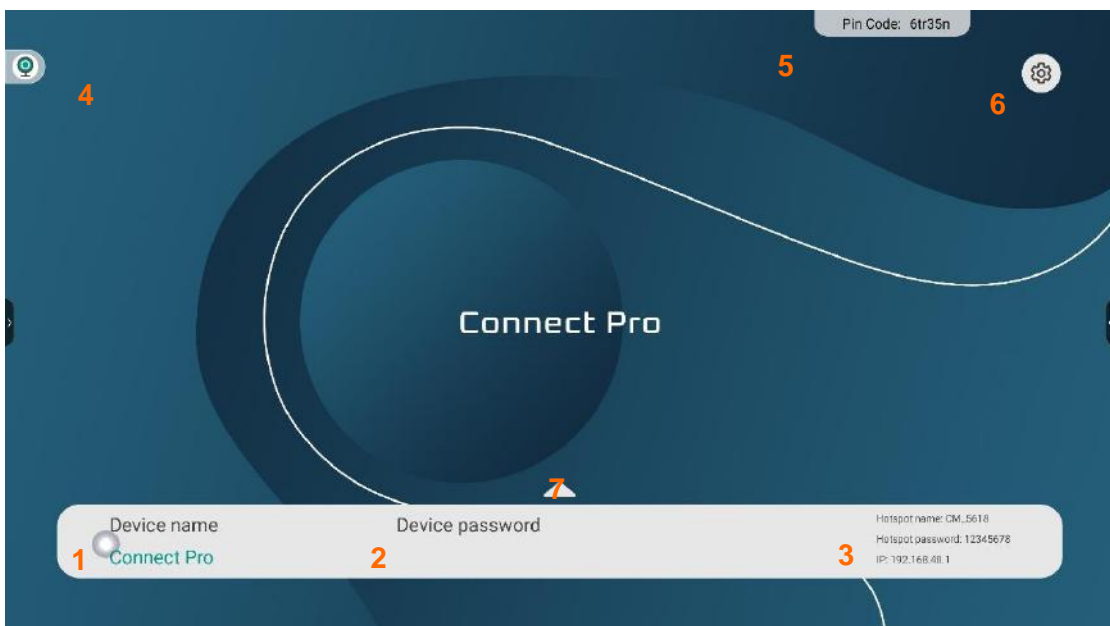
Touch Back – Touching on the interactive touch screen while a Windows Laptop is connected by the Connect Pro Button or the

6.3. Access Connect Pro Receiver

Users may tap the Screen Share icon on the home screen or on the source menu.

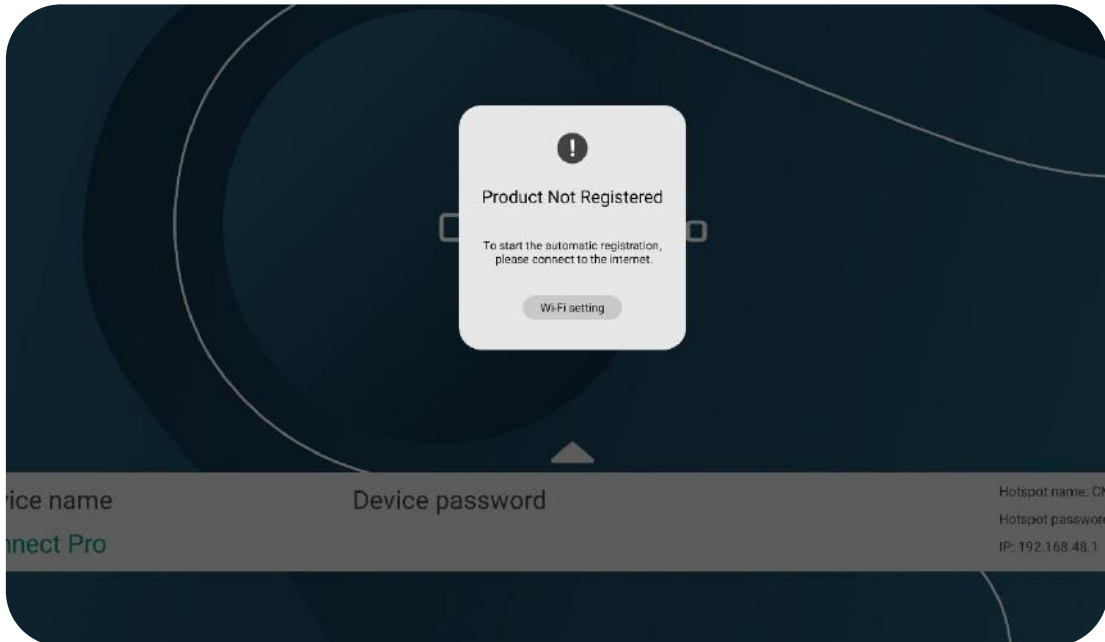


6.4. Connect Pro Receiver Home Screen



Note: 1) Device Name. 2) Device Password 3) Connection Information 4) Status & Control Panel 5) Pin Code 6) Setting 7) Access to Quick Guide

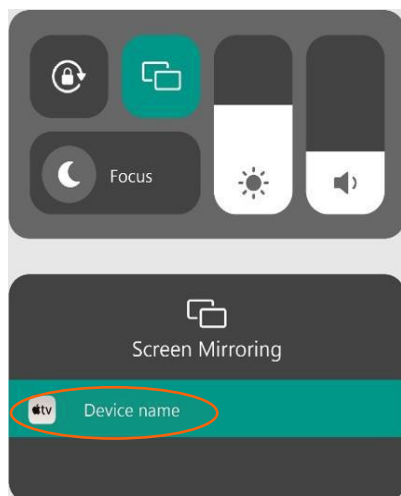
If the Connect Pro Receiver has not been activated, the message “Product Not Registered” will appear. Please ensure an internet connection is available through Wi-Fi or ethernet then the registration process will occur automatically.



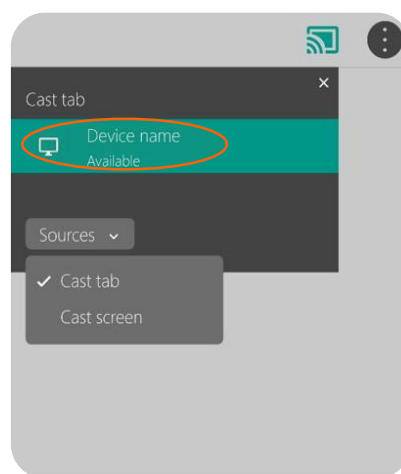
6.4.1. Device name

Default set to be Connect Pro, this name will be the device name to select while casting to the screen in Airplay, Chromecast, Miracast, or the Connect Pro Software. Users may change this name can be change in Connect Pro setting.

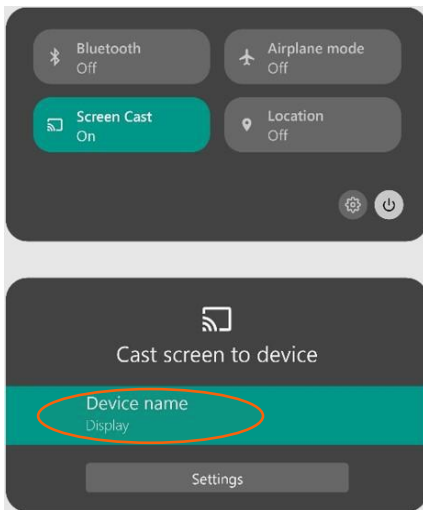
Airplay



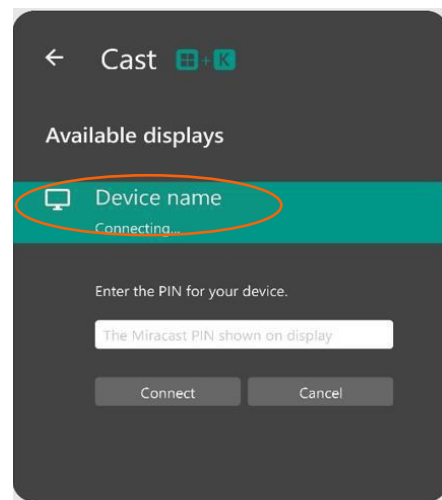
Miracast



Android Screen Cast



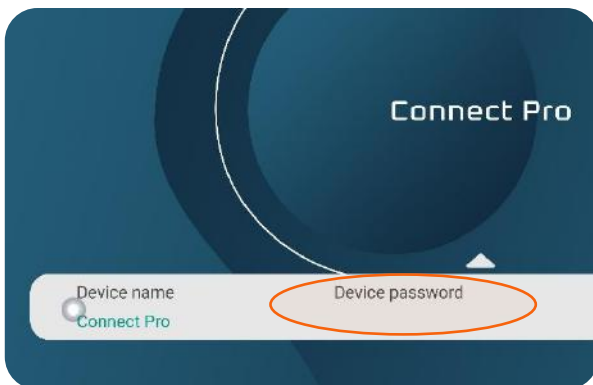
Chrome Browser Cast



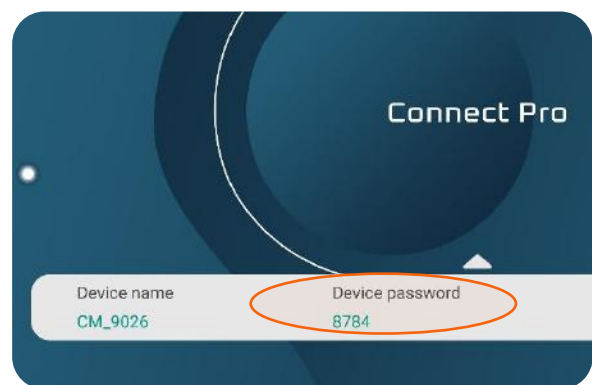
6.4.2. Device Password

Disabled by default, Users may create a manual or dynamic 4-digit password in Connect Pro Receiver setting.

No password as default



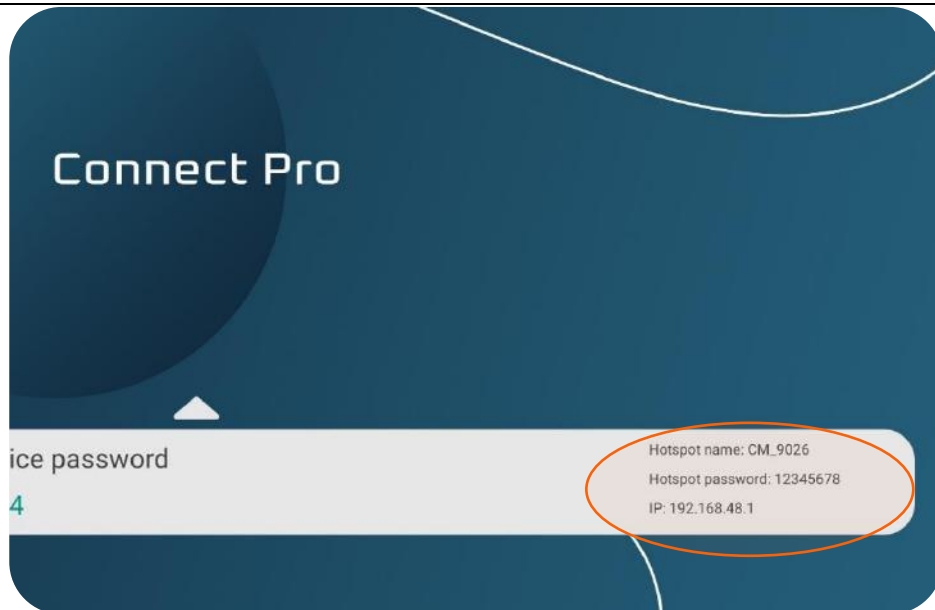
With a 4-digit password



6.4.3. Connection Information

Hot spot name and password – If user’s device is not in the same network as the CM, the Users may choose to connect to the CM hotspot in order to cast screen.

IP: 192.168.48.1 – is the default IP address of the Connect Pro Receiver. This information is useful when users choose to use the Connect Pro Software to connect to the CM.



6.4.4. Status & Control Panel

The status icon indicates how many devices are currently connected to the CM. If there is just the icon without any number, it means it's ready to be connected. Any number will indicate the current connections. ****IMPORTANT:** The icon must be visible to indicate the Connect Pro Receiver is registered, activated, and properly functioning.

No Icon – cannot be casted



Icon visible – ready to be casted

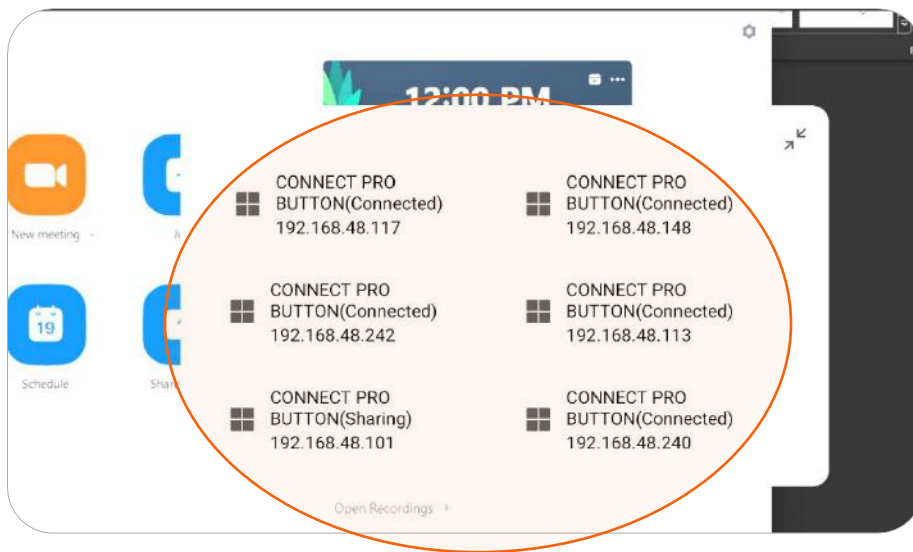


Icon visible – 1 device connected



Users may tap the status icon to see the current list of connected devices. Further action can be taken by interacting with individual connected devices.

In the example below, there are six connected Windows devices



Connecting Method	Tap While Sharing	Tap While Not Sharing
Connect Pro Buttons	Stop Sharing	Start Sharing
Connect Pro Software	Stop Sharing	Start Sharing
Airplay	Disconnect the device	Not Applicable – Airplay device is always sharing
Chromecast	Not applicable - not shown on control panel	
Miracast	Disconnect the device	Not Applicable – device will disconnect shortly after not sharing

6.4.5. Pin Code

Enabled by default, this is designed for the Connect Pro Software. Users simply input the pin code visible on the CM to connect their laptops. Users may disable the pin code and access additional features in Connect Pro Setting.



6.4.6. Connect Pro Receiver Setting

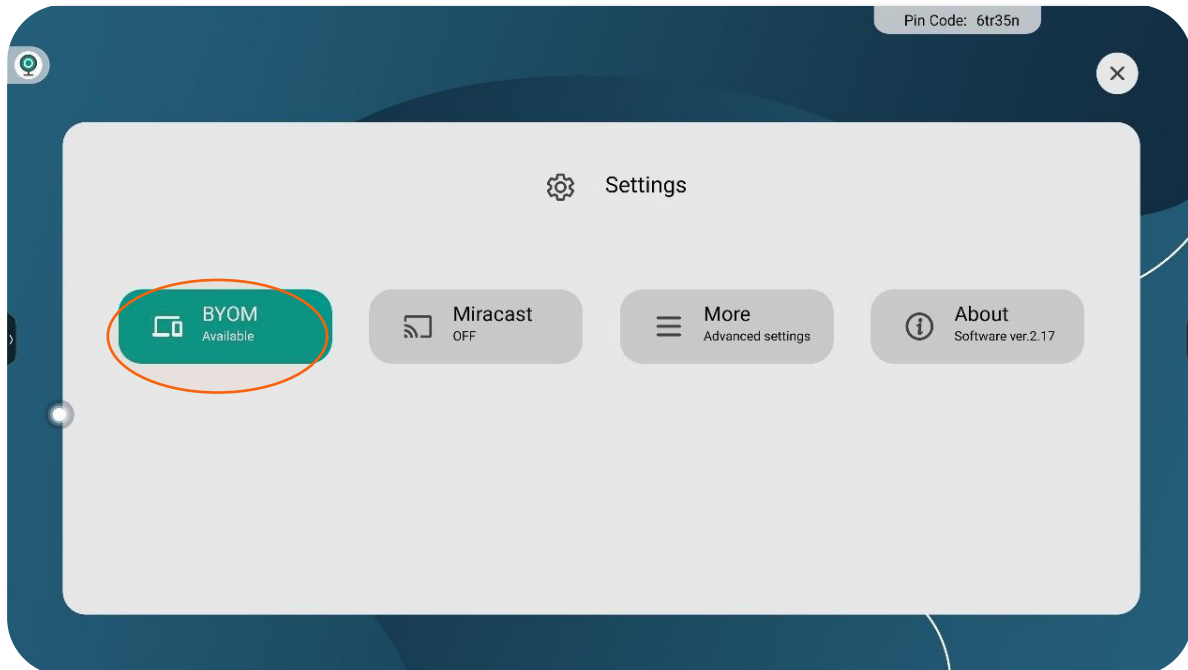
Tap To Enter Connect Pro Receiver Setting



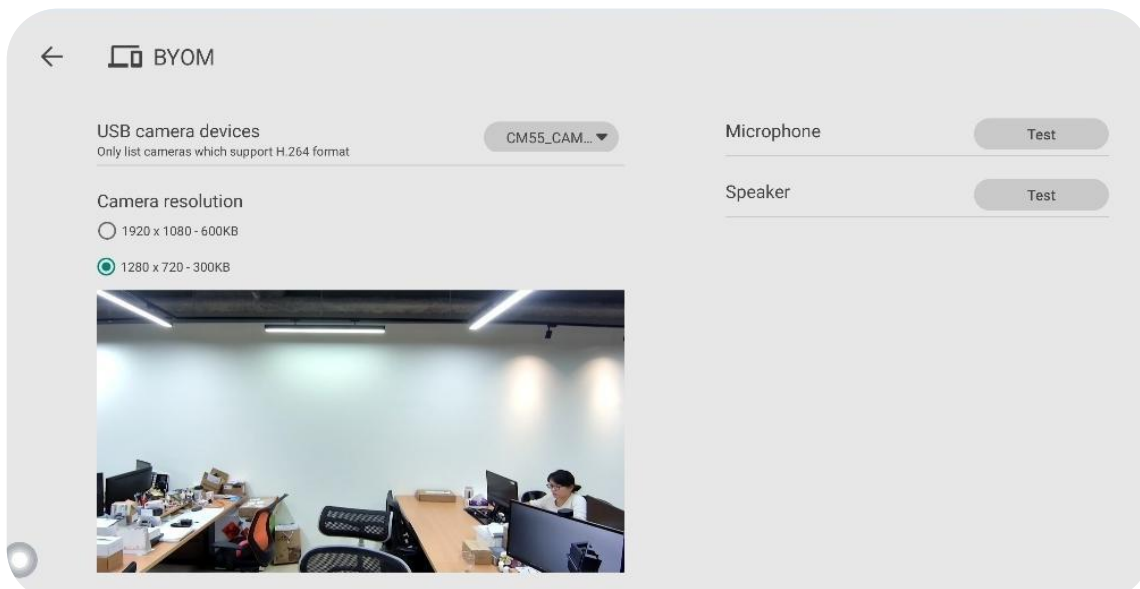
6.5. Connect Pro Receiver Setting Home

6.5.1. BYOM

Users may access the setting related to the BYOM UC features such as the camera streaming bandwidth and quality and test the microphones and speakerphone readiness.

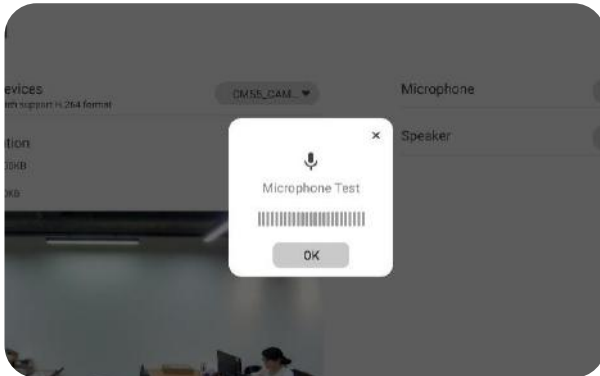


****IMPORTANT:** This BYOM setting only applies to laptop devices who are connected by the Connect Pro Buttons or the Connect Pro Software. Other connection methods such as Airplay, Chromecast and Miracast do not support BYOM UC.

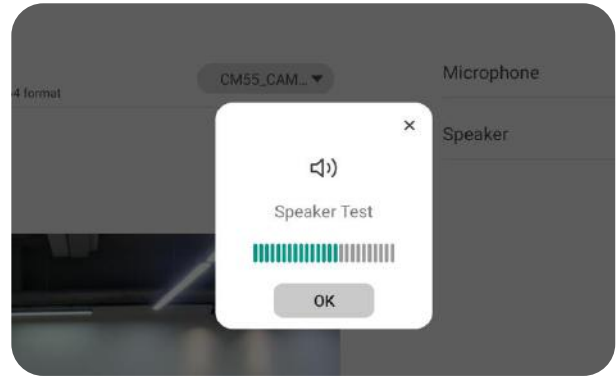


****IMPORTANT:** Only External cameras that support H.264 video format are listed.

Test Microphone by speaking into the microphone device



Test Speaker sound

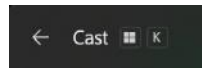


****IMPORTANT:** The audio device selection is determined in the CM system setting. ([Go to Section](#))

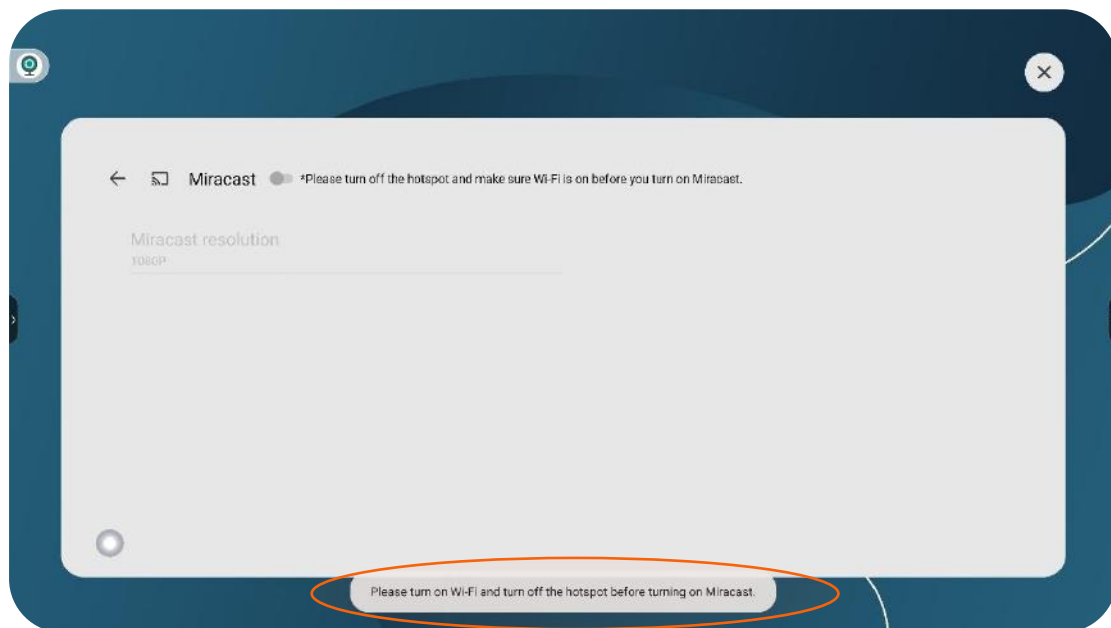
6.5.2. Miracast

Disabled by default, Users may choose to enable it by turning off the CM hotspot while turning on Wi-Fi. When users try to enable it without turning off the hotspot, a notification message will appear at the bottom. To cast using Miracast in Windows, press Windows key + K key.

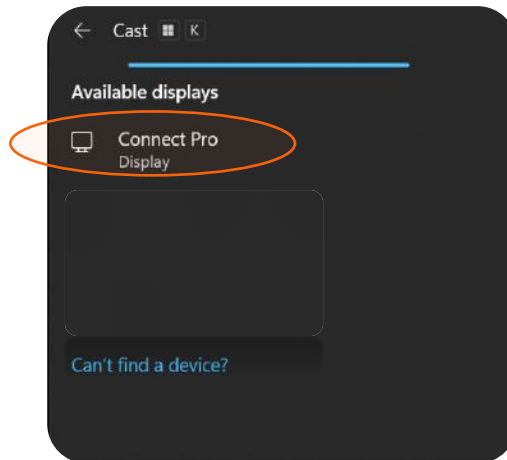
Press Windows key + K



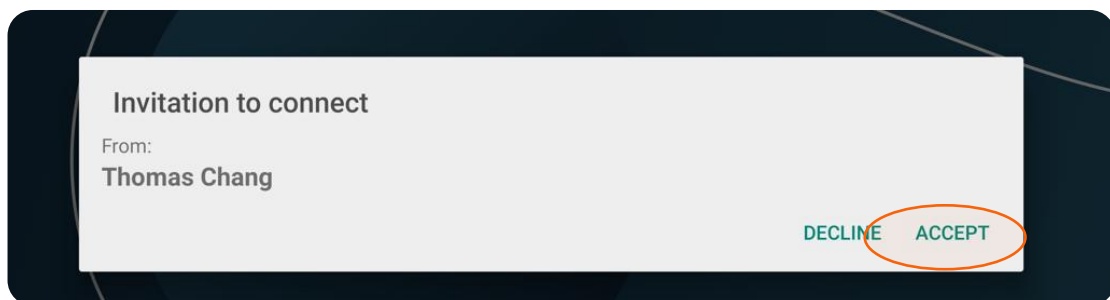
****IMPORTANT:** Turning off the hotspot will disable the Connect Pro Buttons.



On Windows laptop, press Windows key (below Z) + K together. Select the CM Device name to cast.

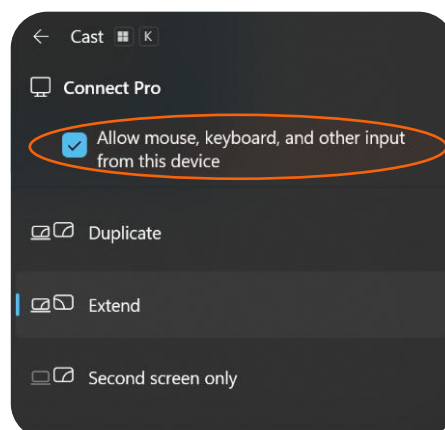


Approve connection on the CM. If a device has been approved before, it would automatically connect in the future.



IMPORTANT: If there is an existing Miracast connection to the CM. The CM device name will no longer be visible to other Windows Laptops.

Miracast supports single point "Touch Back". To enable it, users must check the Allow mouse, keyboard, and other input from this device check box.



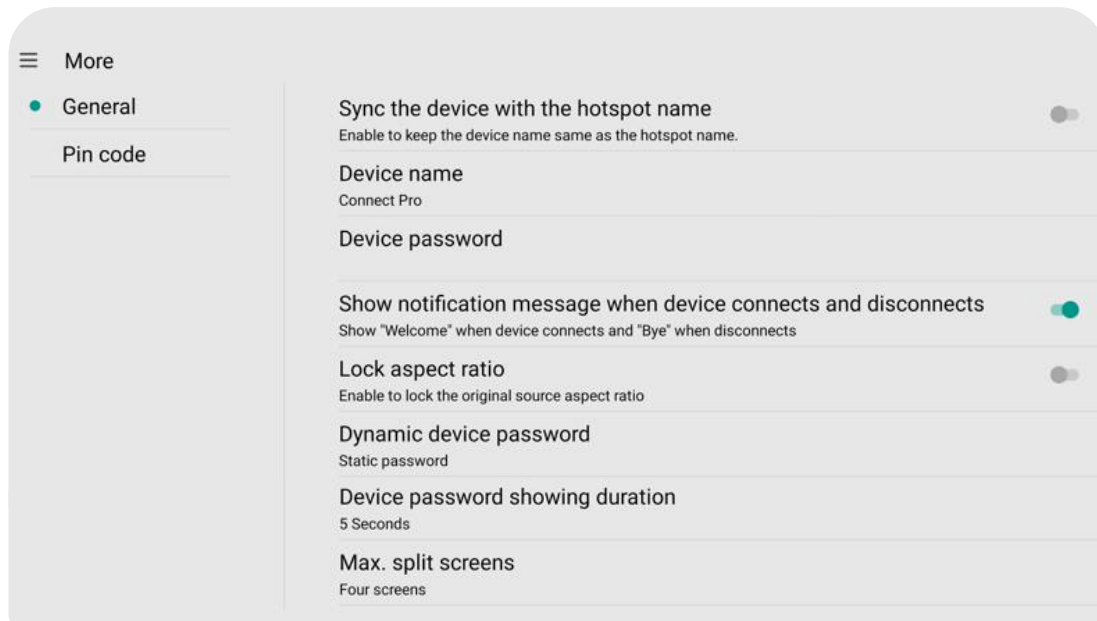
Miracast resolution is 1080p by default. 720p and 2160p options are available depending on users preference and network environment - higher resolution requires higher data bit rate.

**Note: As most laptop displays are 1080p, keeping the Miracast resolution option at 1080p is normally sufficient when the displays are set to be in duplicate mode. To go for 2160p quality, the display setting should be set to extend mode.



6.5.3. Advance Setting

6.5.3.1. General



6.5.3.1.1. Sync the device with the hotspot name

Disabled by default, when enabled, the Device name will change from the default name Connect Pro to CM’s hotspot name which is created randomly by default. The users are then able to distinguish



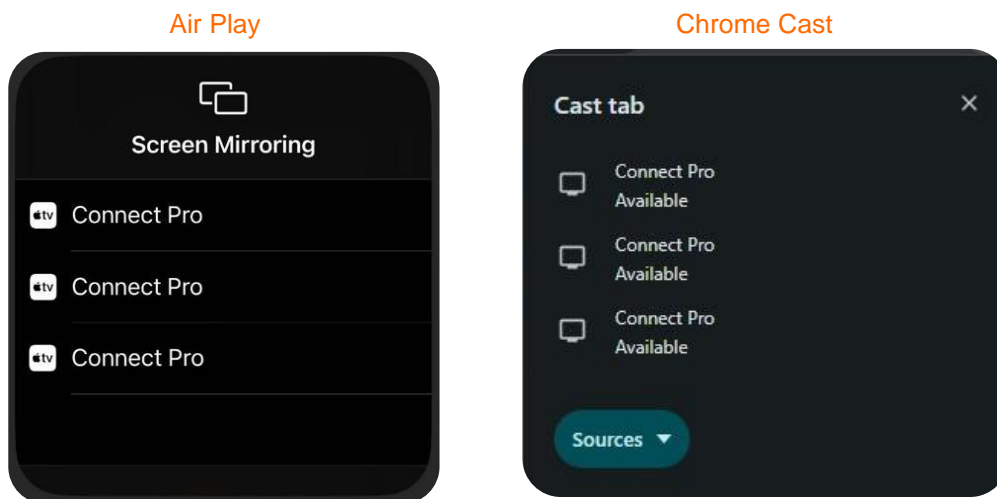
each CM instead of seeing multiple Connect Pro Device within the same network, preventing casting to the wrong CM when using Airplay or Chrome Cast.

6.5.3.1.2. Device name

Default to be Connect Pro, users are recommended to manually change the name of the Connect Pro Receiver to better identify which CM to cast, such as Conference Room A, or CEO Office. If there are multiple CM in the same network all using the same name Connect Pro, users may cast their device to the wrong CM.

**Note: Airplay, Chromecast, Miracast and the Connect Pro Software all required to select the correct device name to cast.

In the example below, there are 3 Connect Pro Receivers in the same network with the same default name as Connect Pro, making it difficult to distinguish them

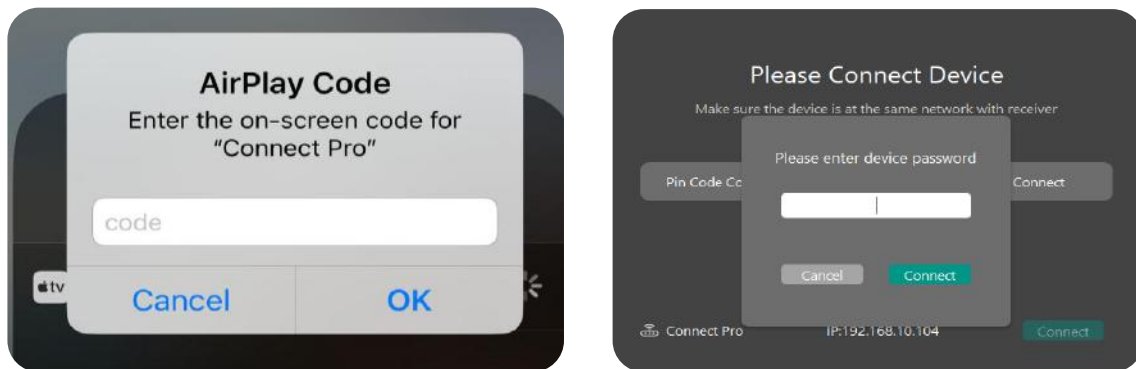


****IMPORTANT:** It is strongly recommended for users to change the device name from the default name to an unique name especially if the Connect Pro Receiver are in the same network.**

6.5.3.1.3. Device password

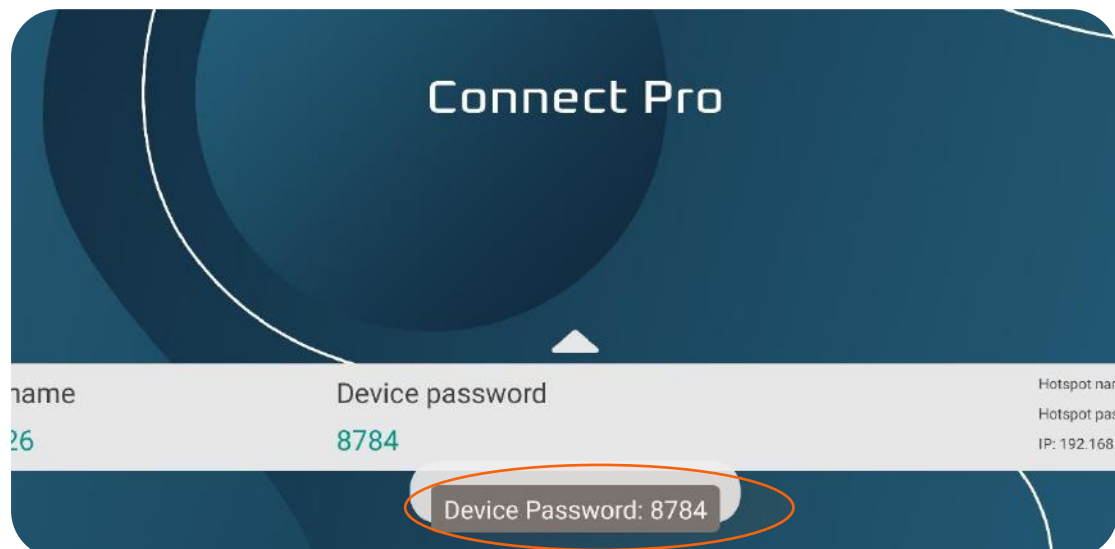
Disabled by default, Users may set the device password (4 digits number only) of the Connect Pro Receiver. This password displays on the Connect Pro Receiver home screen. If the device has previously connected with the same displayed password, the device can reconnect without typing the password again.

****Note:** Users who use Airplay, Miracast, and the Connect Pro Software are required to type in the device password to connect.



6.5.3.1.4. Show Notification Message when device connects

Enabled by default, on screen notification will appear whenever a device is attempting to connect to the Connect Pro Receiver. This is to allow the users in the same room to see the password conveniently.

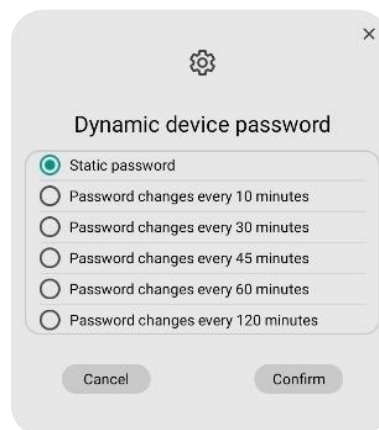


6.5.3.1.5. Lock aspect ratio

Enabled by default, the Connect Pro Receiver will render the casting device in its original aspect ratio.

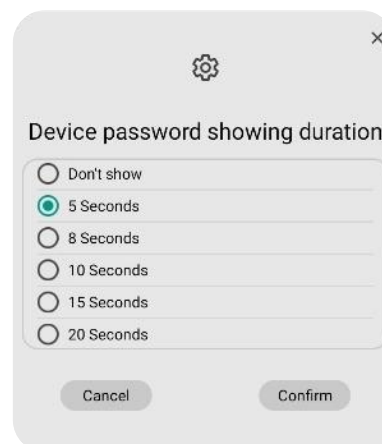
6.5.3.1.6. Dynamic device password

Disabled by default, when enabled, the Connect Pro Receiver will dynamically generate a new password per the time period selected.



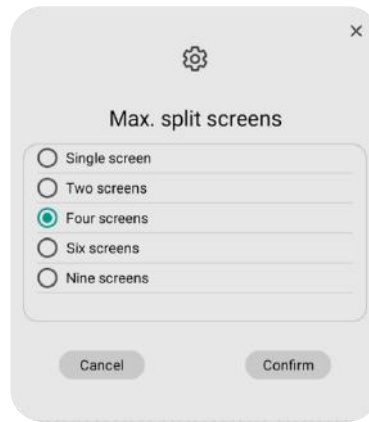
6.5.3.1.7. Device password showing duration

Disabled by default, when enabled, the Connect Pro Receiver will display the current device password on the bottom part of the CM so the users in the same room can see what the correct password is.

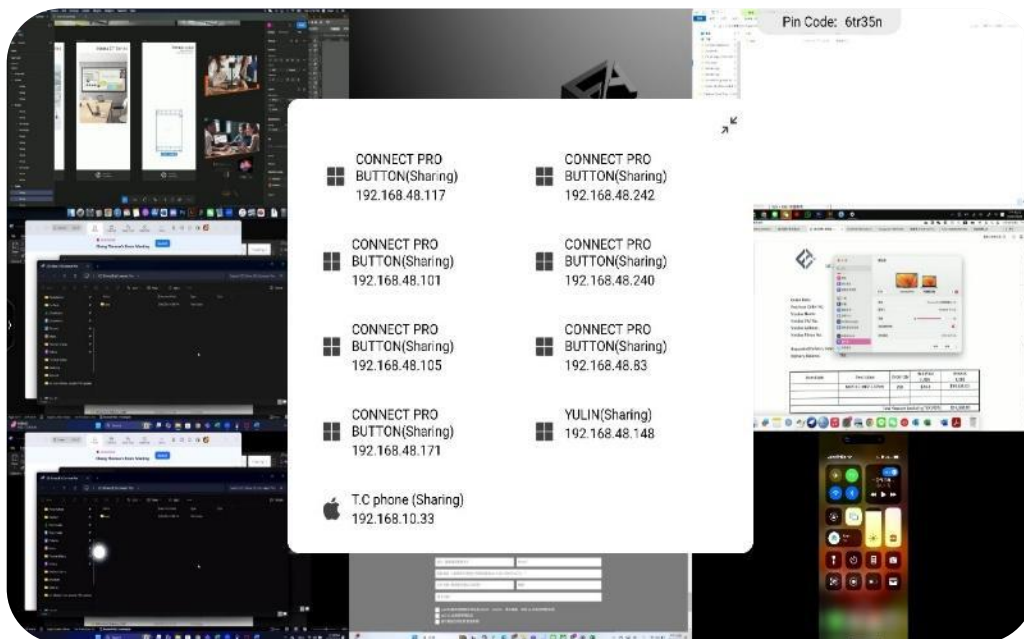


6.5.3.1.8. Max. split screens

Default to be 4 split screens, Users may select from options of 1,2,4,6 or 9.



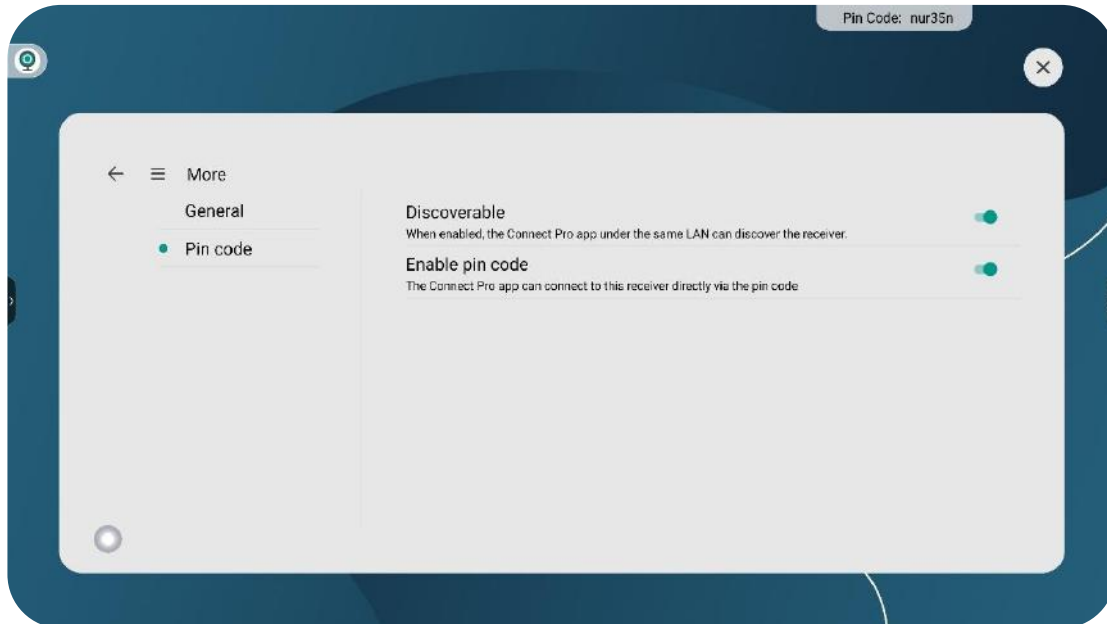
In below example, there are 9 connected devices with the max split screens set to 9.



If there are more devices connected to the Connect Pro Receiver than the number of maximum split screens, the latest screen sharing device will bump out the oldest screen share device.

6.5.3.2. Pin Code

Default set to be enabled and discoverable, users may choose to disable it if they do not need to connect using the Connect Pro Software.



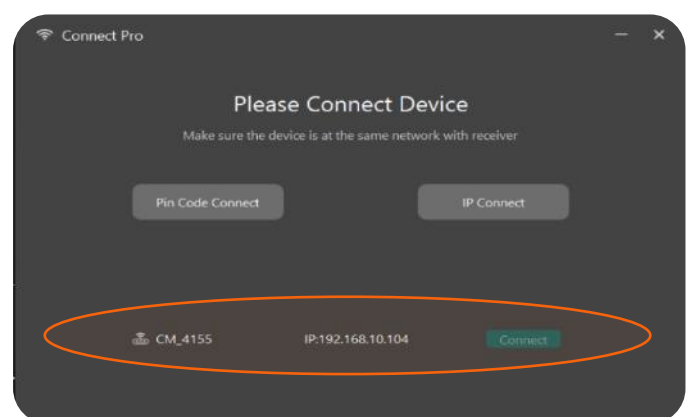
6.5.3.2.1. Discoverable

Enabled by default, this allows the Connect Pro Software in the same network to automatically discover and connect to the Connect Pro Receiver.

Connect Pro Software not discovering any CM55

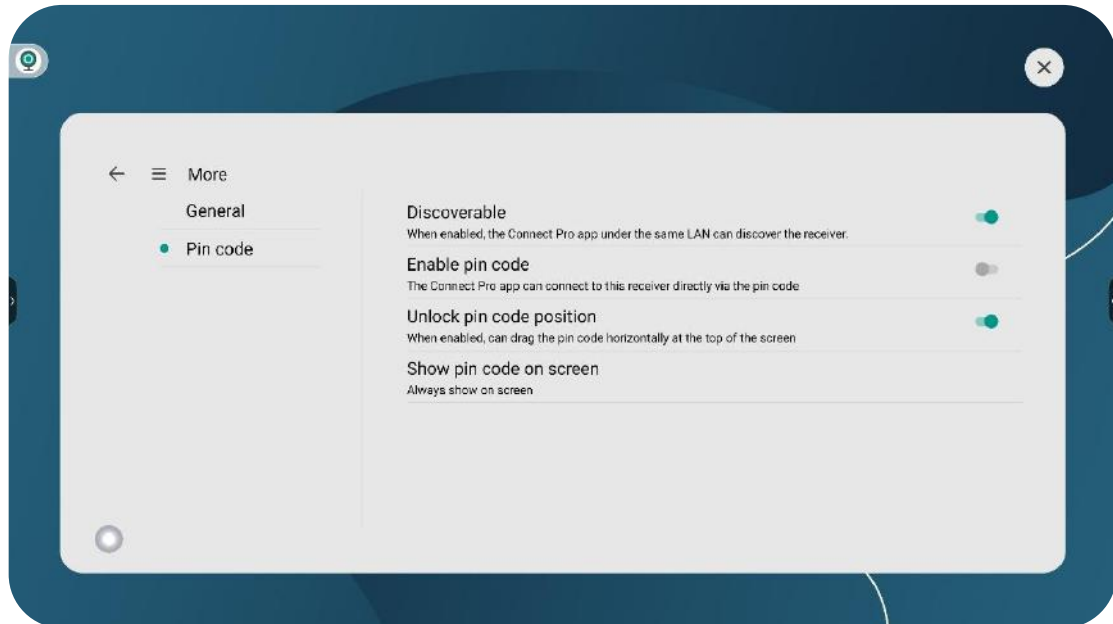


Connect Pro Software discovering 1 CM55



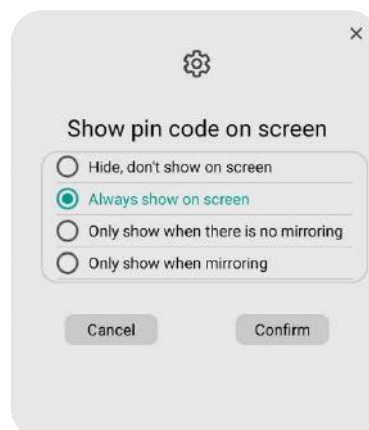
6.5.3.2.2. Enable pin code

Enabled by default, this allows the Connect Pro Software in the same network to be able to use the pin code to connect to the Connect Pro Receiver. To access the pin code setting, please turn off Enable pin code to reveal more settings.



Unlock pin code position – Enabled by default, Users may drag the pin code horizontally across the top of the screen.

Show pin code on screen – The default option is always show on screen, Users may choose from other options.



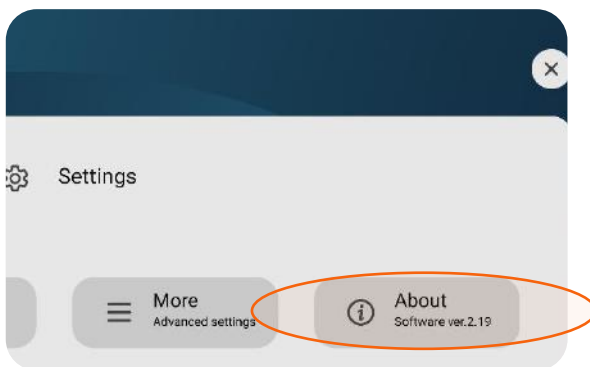
- Hide, don't show on screen – for privacy, does not show the pin code. Only users who knows the pin code can connect by pin code.

- Always show on screen (Default) – easier for users to see the pin code and use it to connect.
- Only show when there is no share screen – prevents the pin code from interfering with the screen sharing.
- Only show where mirroring.

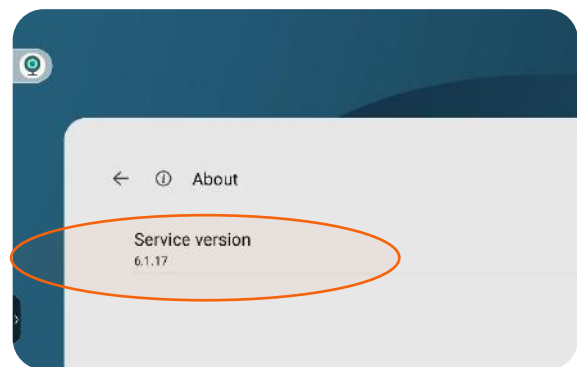
6.5.4. About

Users may find out the Connect Pro Receiver software version and service version, both are important to identify the Connect Pro Receiver.

Software version

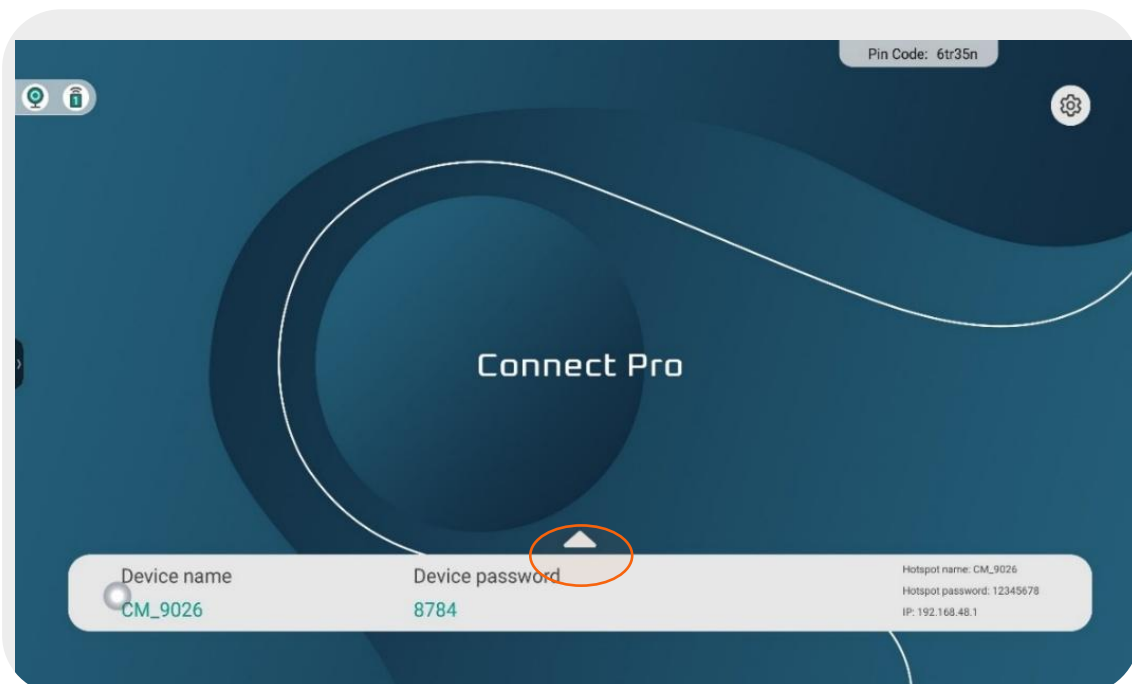


Service version

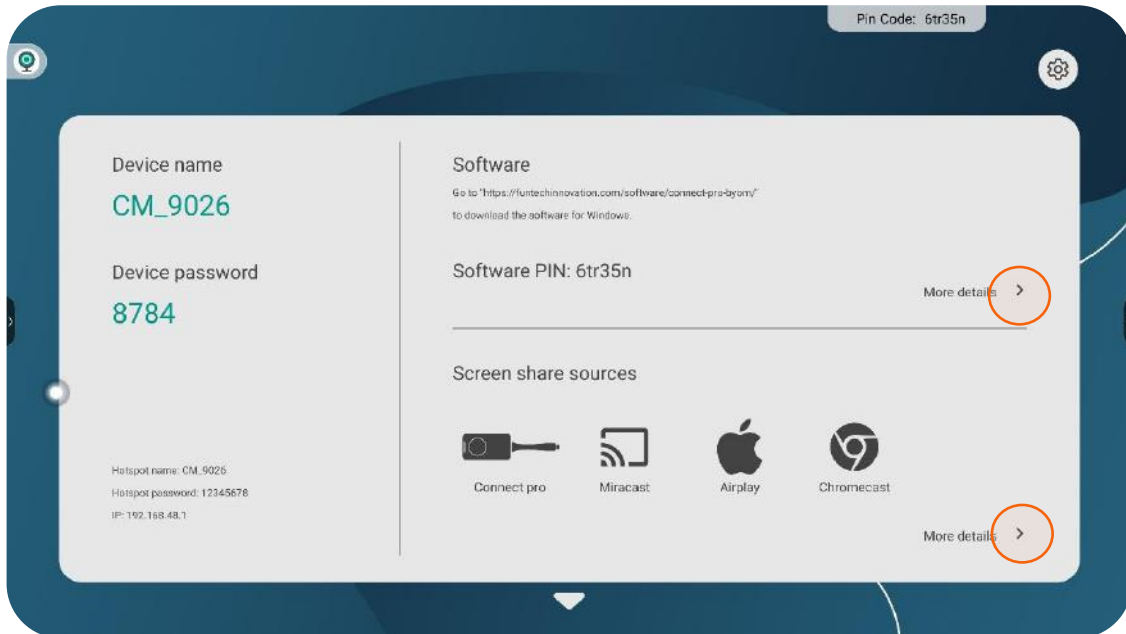


6.6. Access to Quick Guide

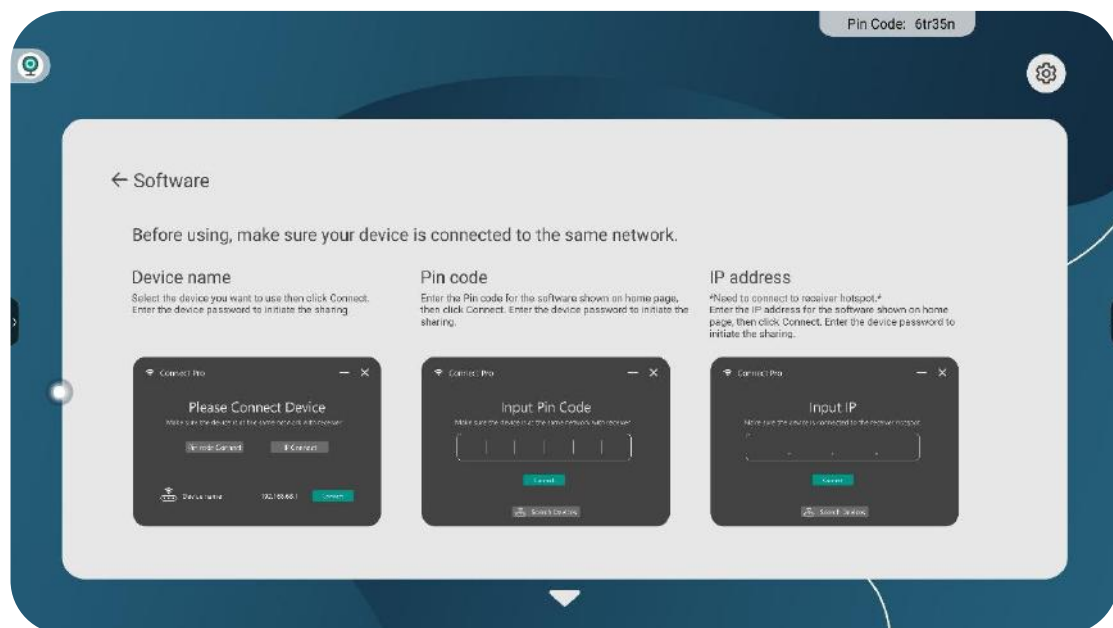
Tap to expand and see detailed quick guide on how to connect.



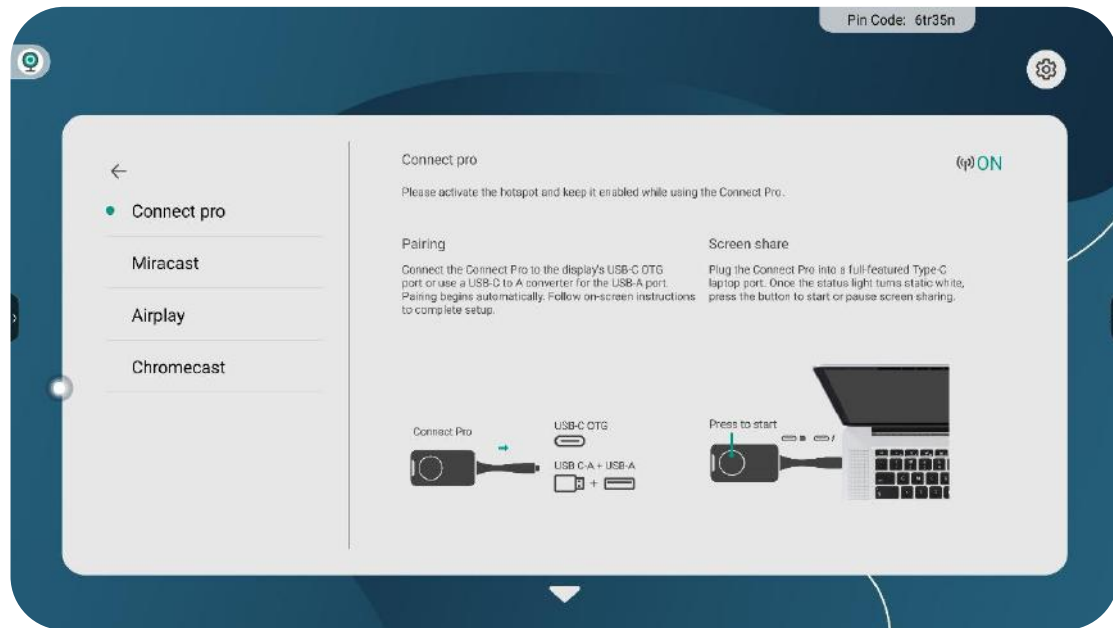
Quick guide home shows connecting information and provides detailed explanations on how to connect using Connect Pro Software, Connect Pro Button, Miracast, Airplay, and Chromecast. Tap on more details to access more information.



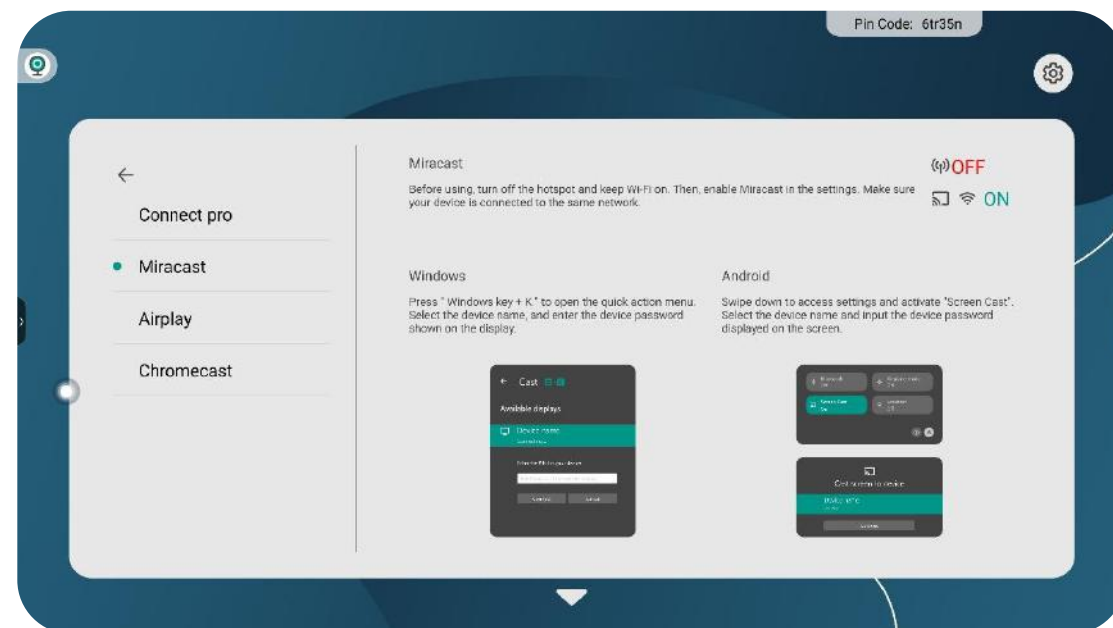
Connect Pro Software Quick Guide



Connect Pro Button Quick Guide

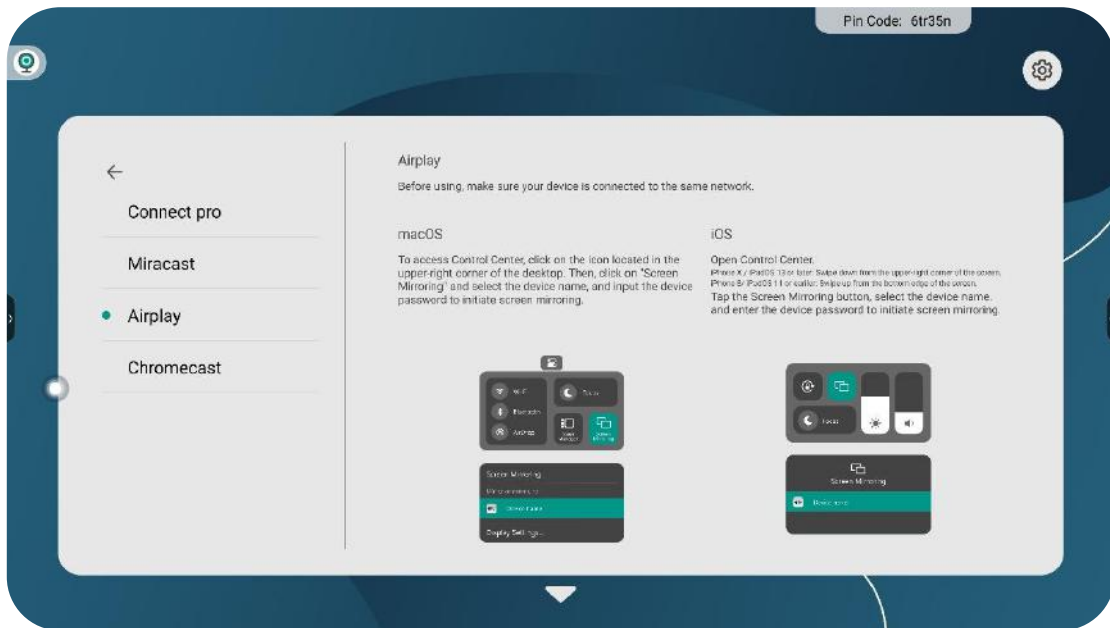


Miracast Quick Guide



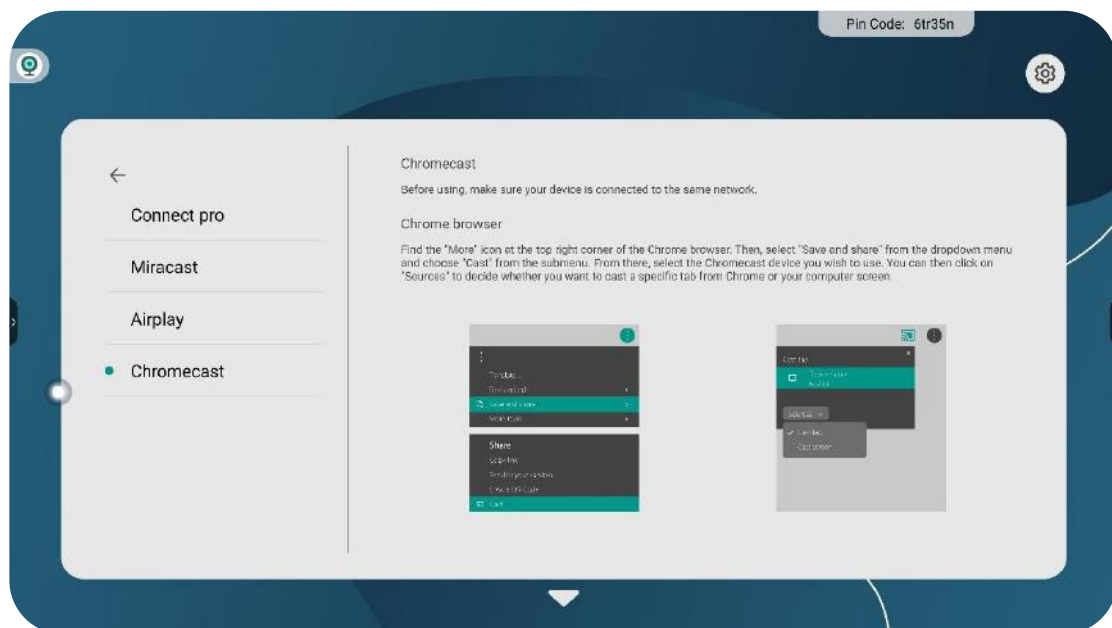
****IMPORTANT:** Hotspot must be turned off and Wi-Fi is turned on for Miracast casting to work. Connect Pro Button would not work under this circumstance.

Airplay Quick Guide



****IMPORTANT:** For Airplay to work, the macOS or iOS device must be in the same network or connected to CM's hotspot.

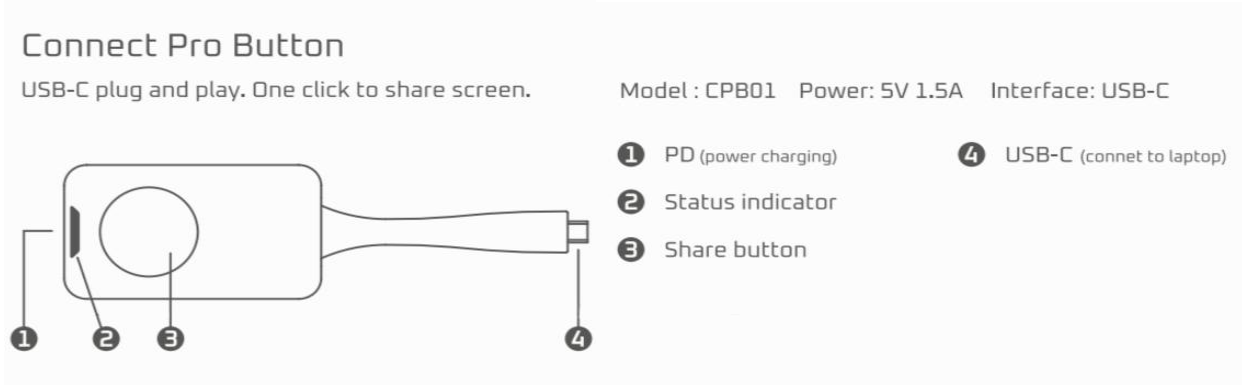
Chrome Cast Quick Guide



****IMPORTANT:** For Chromecast to work, the Android device or Chrome Browser must be in the same network or connected to CM's hotspot.

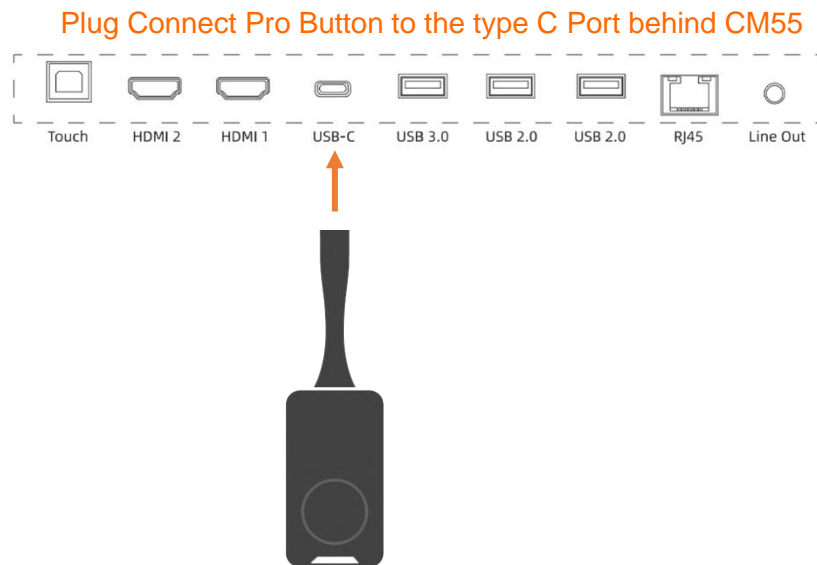
6.7. Connect Pro Button Connection

6.7.1. Overview



6.7.2. How to Pair the button with The Connect Pro Receiver

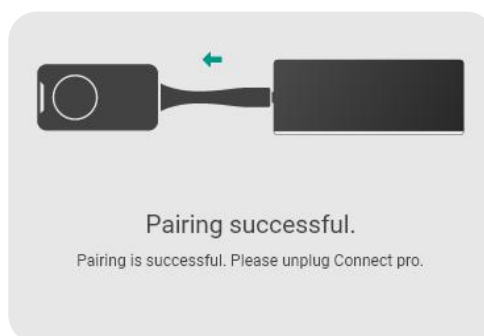
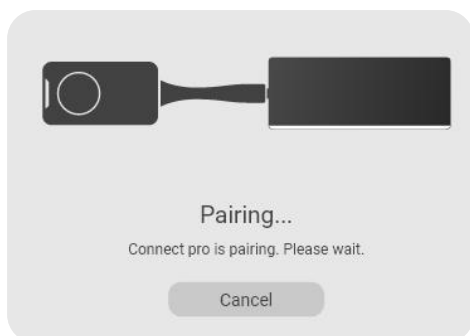
Simply connect the Connect Pro Button to the type C port behind the CM, the pairing process will automatically start. The notification will be shown on screen as indicated below.



Plug in button to start pairing

Pairing Successful

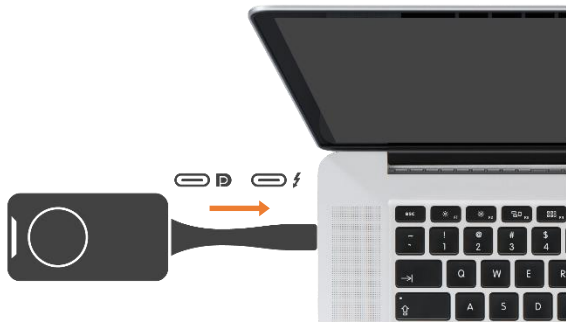
Pairing Failed



6.7.3. How to Connect to Laptop

Insert the Connect Pro Button to the laptop's type C port that supports DisplayPort signal in order to cast properly. Please refer to the USB C Port specification table for more information.

Insert the button to the type C port



USB C port specification table

USB-C Connector		Speaker phone	Screen casting	Camera streaming
USB 2.0 480 Mbps	Normal	✓	X	✓
	PD Enabled	✓	X	✓
USB 3.1 Gen 1 5 Gbps	Normal	✓	X	✓
	PD Enabled	✓	X	✓
USB 3.1 Gen 2 10 Gbps	Normal	✓	X	✓
	PD Enabled	✓	X	✓
DisplayPort 5-10 Gbps	Normal	✓	✓	✓
	PD Enabled	✓	✓	✓
Thunderbolt 20-40 Gbps PD Enabled DisplayPort		✓	✓	✓

6.7.4. LED Light Status Indicator

The Connect Pro Button LED Light Status Indicator allow users to know the status of the connection.

LED Light In White



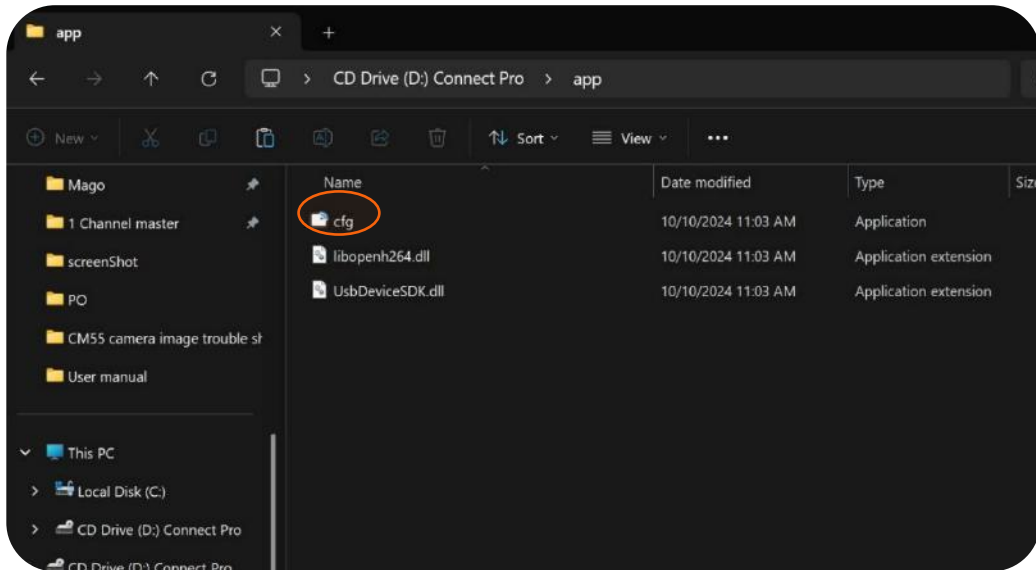
LED Light In Red



Connect Pro LED Light Behavior	Status
Flashing White (fast)	Connecting / Pairing in progress
Flashing White (slow)	Connected
Static White	Screen sharing
Flashing Red	Failed to connect / Pair
Static Red	Working abnormally

6.7.5. Pop up folder with Connect Pro Button configurator

When the Connect Pro Button connect to the laptop, a folder will pop up. In the folder, there is a configuration tool for users to input the Connect Pro Receiver information to the Connect Pro Button. This tool is useful when the CM is wall mounted and make it difficult to reach the type C port at the back for button pairing.



****IMPORTANT:** Users DO NOT need to access the folder to use the Connect Pro Button. The folder can be closed if there is no need to use the configuration tool.

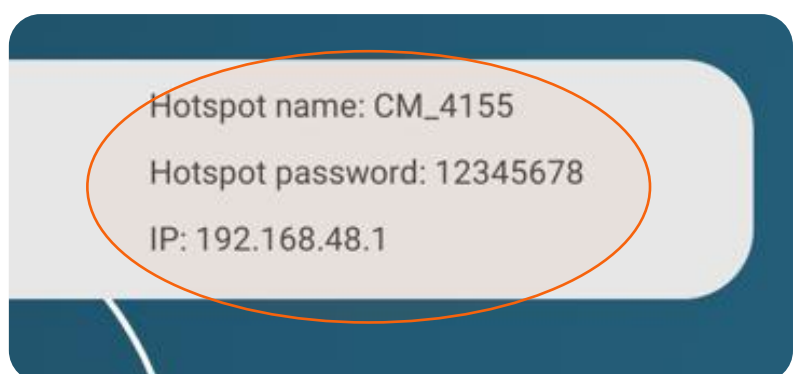
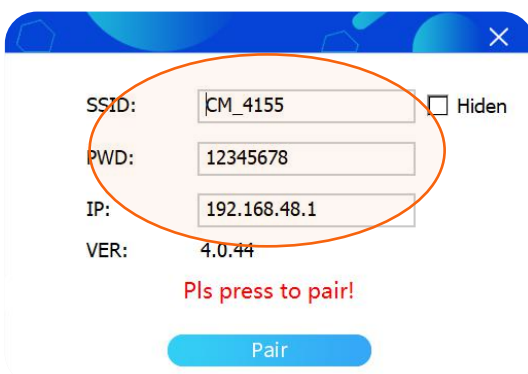
When inputting the below entries correctly, the Connect Pro Button will correctly pair to the receiver.

- SSID - Hotspot name of the Connect Pro Receiver
- PWD - Hotspot password of the Connect Pro Receiver
- IP – IP address of the Connect Pro Receiver.

****IMPORTANT:** Incorrect data entry will result in failure to connect.

Configuration Tool Interface

Connect Pro Receiver Connection Information

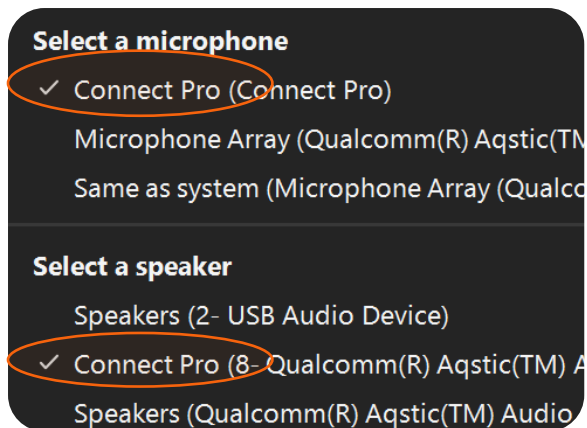


6.7.6. Wirelessly Accessing Camera, Microphones & Speaker

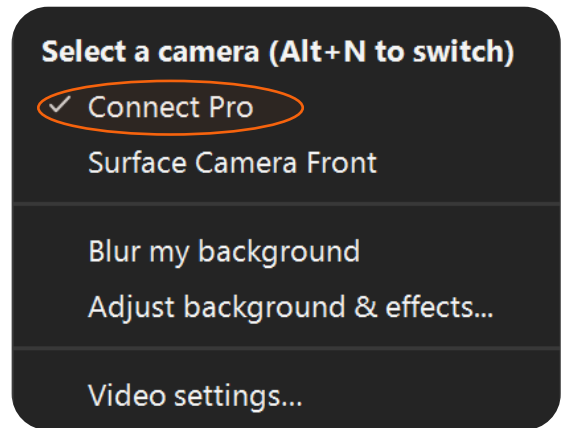
Laptops can wirelessly access the CM's camera, microphones and speakers through the Connect Pro Button.

In a video conference call such as Teams or Zooms, users simply select the device "Connect Pro" as the source for camera, microphone and speaker.

Microphone & Speaker



Camera

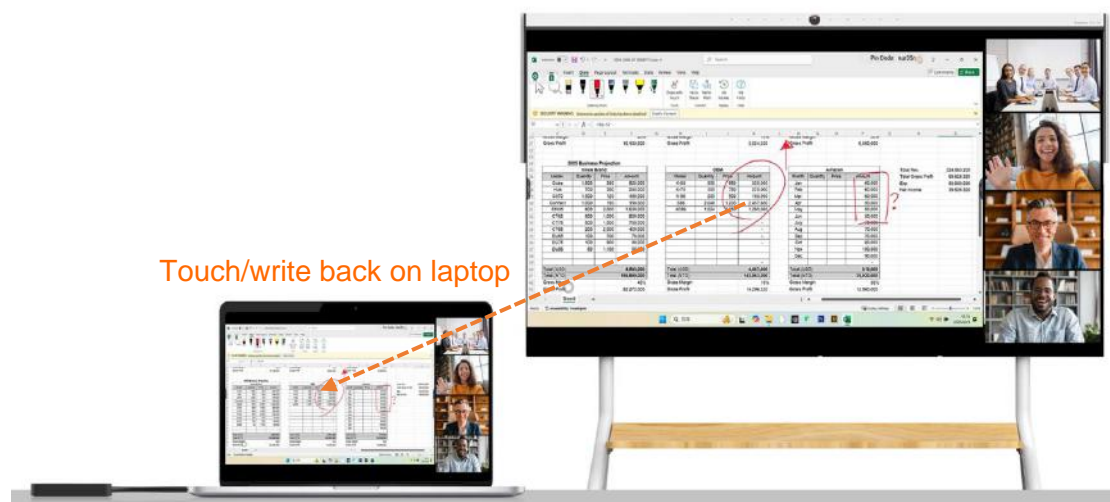


****IMPORTANT:** The laptop does not have to be in a screen sharing to access CM's camera and microphone. However, to output sound to the CM's speaker, the laptop needs to be in screen sharing.

6.7.7. Touch Back, Innex Pen, and Microsoft Pen Protocol

When the Windows laptops are connected by the Connect Pro Button. Users may interact with their Windows laptops through the CM. The CM supports MPP2.0 (Microsoft Pen Protocol 2.0) remotely through the Connect Pro Button.

Touch and write on CM55

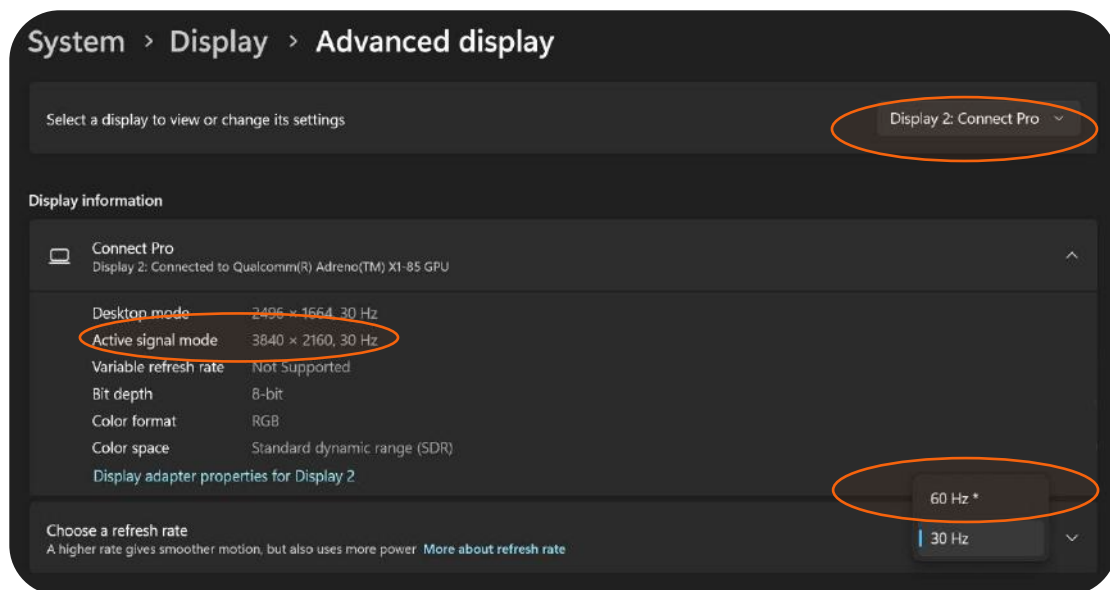


6.7.8. Casting Resolution and Refresh rate

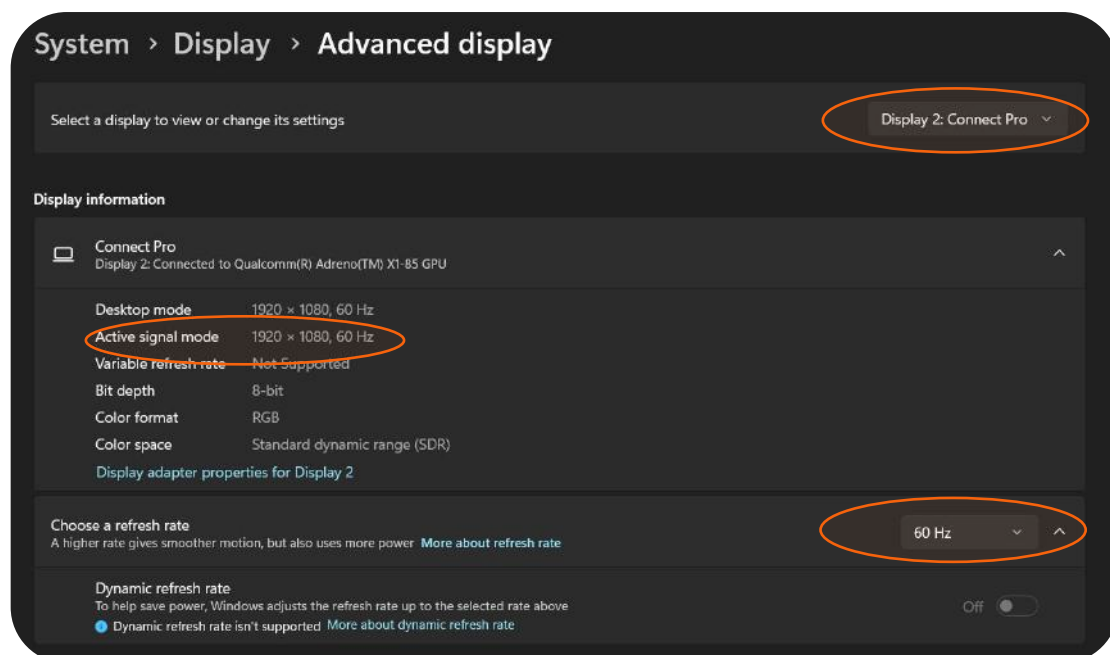
When connecting laptops using the Connect Pro Buttons, Users may screen share up to 4K resolution at 2160p, however the supported refresh rate is only 30hz.

****IMPORTANT:** Slower refresh rate will create more latency during screen cast and also slows down the writing speed when users are annotating onto the laptops app such as MS PowerPoint or Whiteboard via the Connect Pro touch back feature. It is recommended to screen share at 1080p and secure a 60hz refresh rate which will increase the writing speed, therefore the experience.

At 3840*2160 resolution maximum refresh rate is 30Hz



At 1920*1080 resolution maximum refresh rate is 60hz

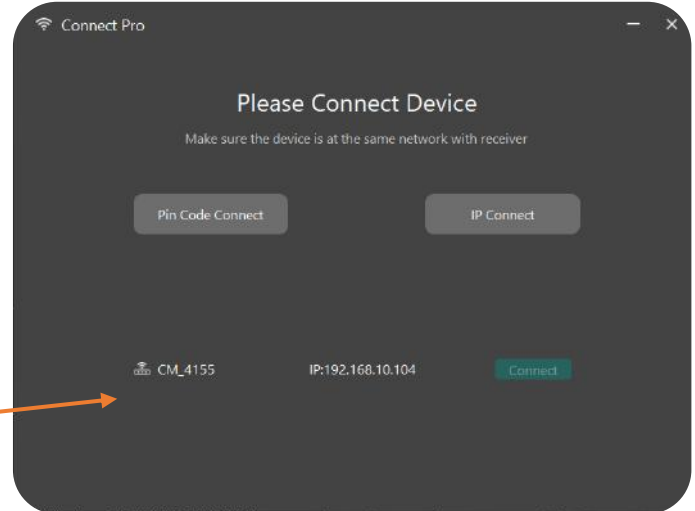
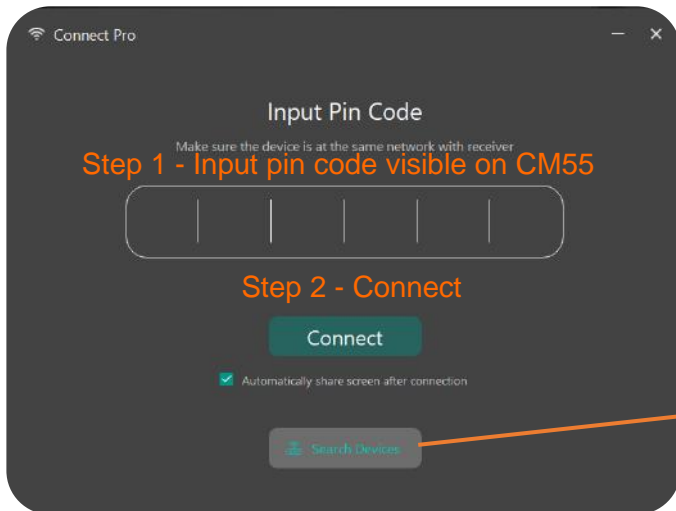


6.8. Connect Pro Software

The Connect Pro Software is a software alternative to the Connect Pro Button. Users may screen share the laptops screen and sound and access the CM’s camera and microphone for UC conference call and with touch back control.

Home screen – input pin code or search for the Connect Pro receivers on network

Search Device Page – a list of connectable Connect Pro receivers will show here



Or Tap Search devices to show list of available Connect Pro Receiver

6.9. Summary table, wireless casting, BYOM, touch back

Users may refer to the below summary for a structural overview.

Connecting Protocol	Casting Device Network Connection with CM55	CM55 Must Enabled Network	Support Platform	Max Screen Share Resolution	Output Sound Through Speaker	Access Camera & Microphone	Touch Back	MPP2.0 Support
Connect Pro Button	Not required	Hotspot	Windows / macOS	4K	Yes	Yes	Yes (10 point touch)	Yes
Connect Pro Software	Same network or CM55 Hot Spot	Wi-Fi or Hotspot	Windows	4K	Yes	No - Roadmap	Yes (Multi touch)	No
Airplay	Same network or CM55 Hot Spot	Wi-Fi or Hotspot	macOS / IOS	1080p	Yes	No	No	No
Chromecast by Chrome Browser	Same network or CM55 Hot Spot	Wi-Fi or Hotspot	Chrome Browsers	720p	Yes	No	No	No
Miracast	Not required	Wi-Fi	Windows	4K	Yes	No	Yes (1 point touch)	No

****IMPORTANT:** Android devices may use Miracast or Chromecast depending on android models. However, the connecting performance may vary so they are not included in the above table.

7. Side bar

Users may use the side bar to have quick access to settings, apps, tools, and features.



7.1. Return

When users tap on the Return icon, CM will go back to the previously opened app. For example, if a user opened the Whiteboard app, then the Finder app, then the Screen Share app. Then tapping the Return icon will return from the Screen Share app then to the Finder app and to the whiteboard app, in reverse sequence.



However, if users tap the Return icon in the CM's built-in Chrome Browser, then tapping Back will go back to the previously browsed website, before going back to the previous app.

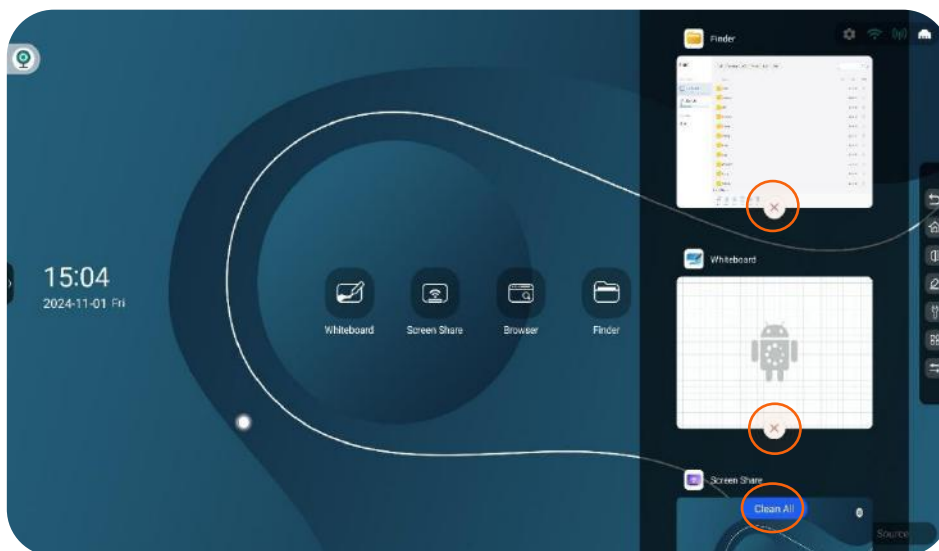
7.2. Home

This goes to the CM Home Page



7.3. Tasks

This opens all apps that are currently running in the background. Scroll down to see more open apps. Users may quickly switch to different app by tapping on it or close the apps one by one or all together.

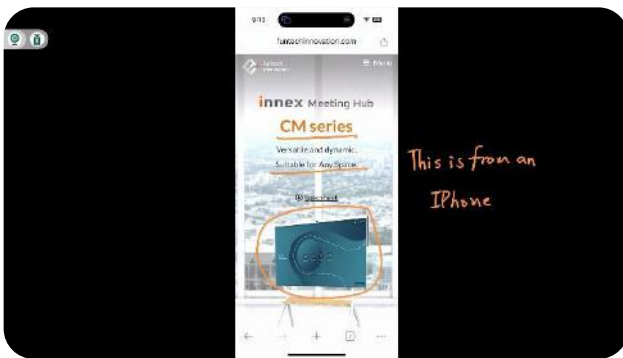


7.4. Annotation

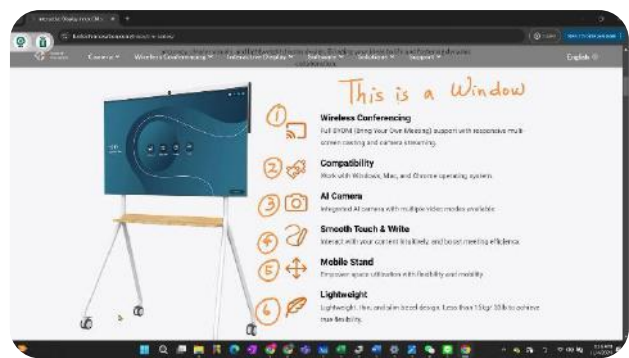


Users may freeze screen and annotate on it to highlight or illustrate points and ideas and save them as an individual snapshot or insert it into the whiteboard. Annotation is particularly useful while browsing websites, displaying PowerPoint, or sharing screen from a laptop or phone.

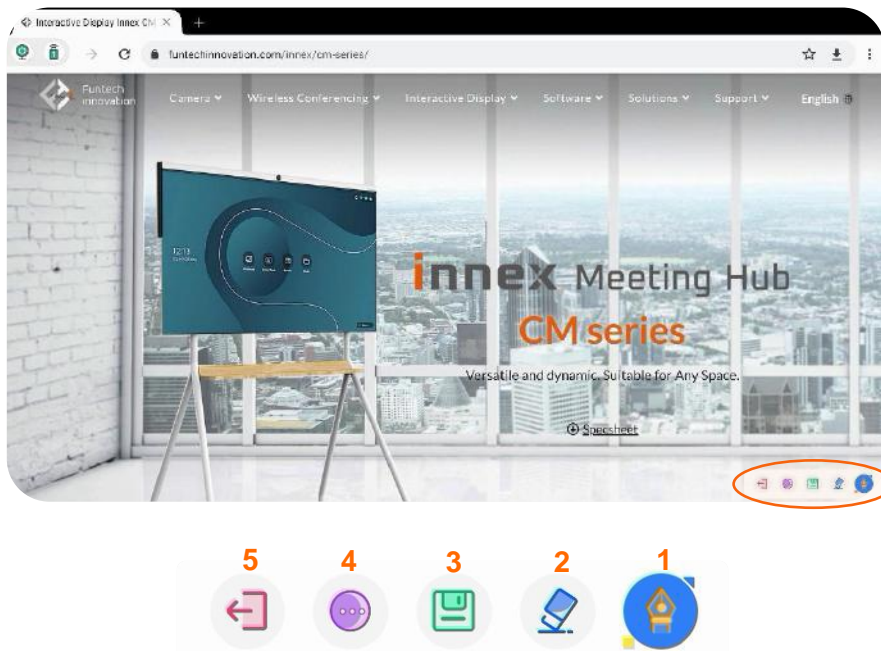
Annotation on a screen share



Annotation on a laptop screen share



Appears on the button right after annotation is triggered

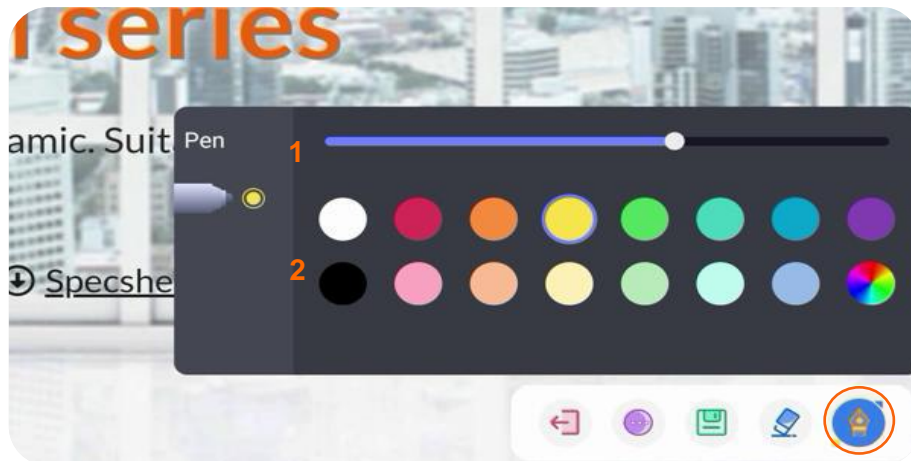


- 1) Pen mode
- 2) Eraser mode
- 3) Save
- 4) More features
- 5) Exit annotation session

7.4.1. Pen Mode

Default to be in pen mode, the pen color and stroke thickness can be modified. When using finger as pen, at most ten touches can be supported.

****IMPORTANT:** The Innex Pen features of automatic pen, back eraser and the tip pressure levels do not apply in the pen mode.



1) Change pen stroke thickness 2) Change pen Color

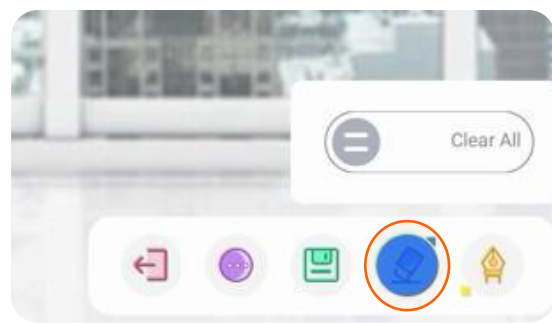
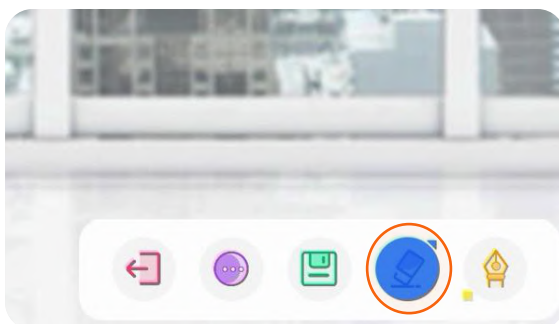
7.4.2. Eraser Mode

Select the eraser icon to get into eraser mode. Users may use the Innex Pen or finger to erase the pen strokes created. When using finger as eraser, at most one touch can be supported.

****IMPORTANT:** The Innex Pen features of automatic pen, back eraser and the tip pressure levels do not apply in the eraser mode.

Select the eraser icon to inter eraser mode

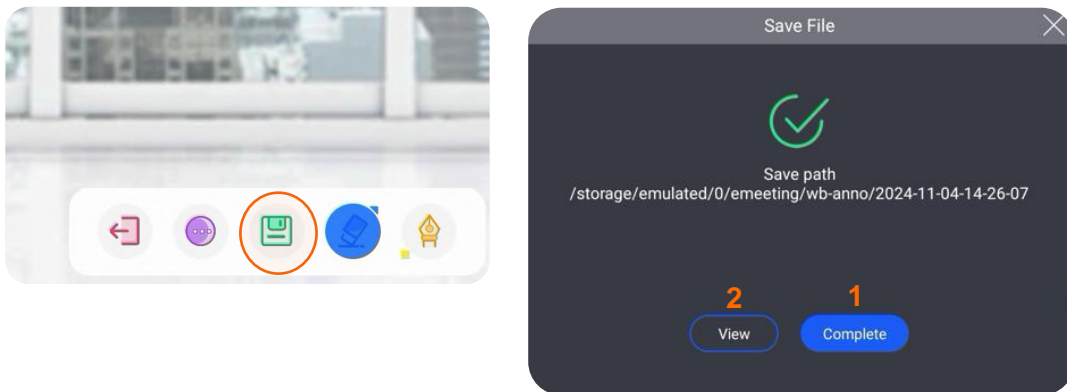
While in erase mode tap the eraser icon again to show option to clear all pen stroke.



7.4.3. Save Annotation

This will trigger saving the annotation as a file in the system. The saved path will be in Local Storage > emeeting > wb-anno > folder name. The folder name is the specific time code in which the annotation is saved. For example, folder name with 2024-11-04-14-25-23 means it's created at 2024/Nov/4th/14:25:23.

**Note: One annotation is saved into one folder, please navigate to different folder to view each annotation file.

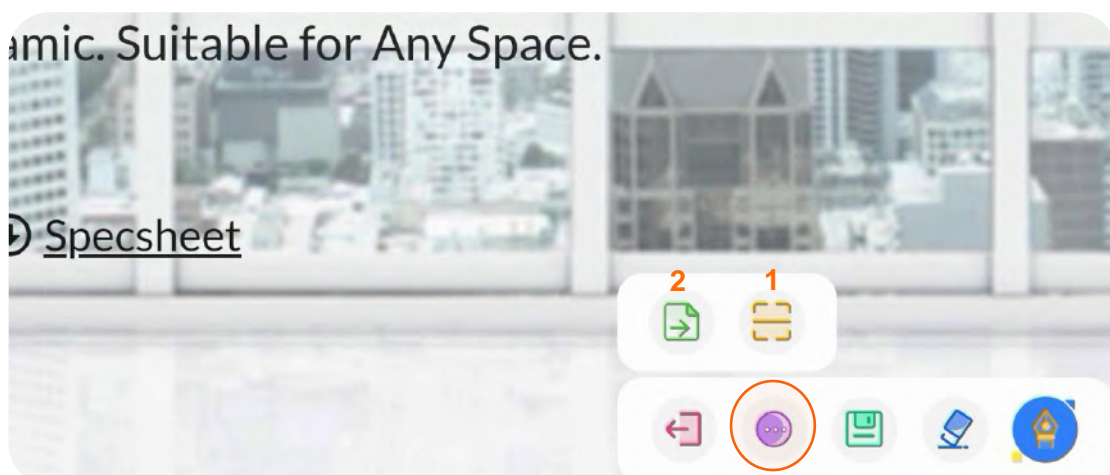


- 1) Tap complete to go back to Annotation session.
- 2) Tap view to see the annotation file ****IMPORTANT:** This will exit the Annotation session.

7.4.4. More Features

Users may download the annotation file wirelessly directly from the CM or insert the annotation file into the whiteboard for further brainstorming.

- 1) Scan to download 2) Insert into Whiteboard



7.4.4.1. Scan To Download

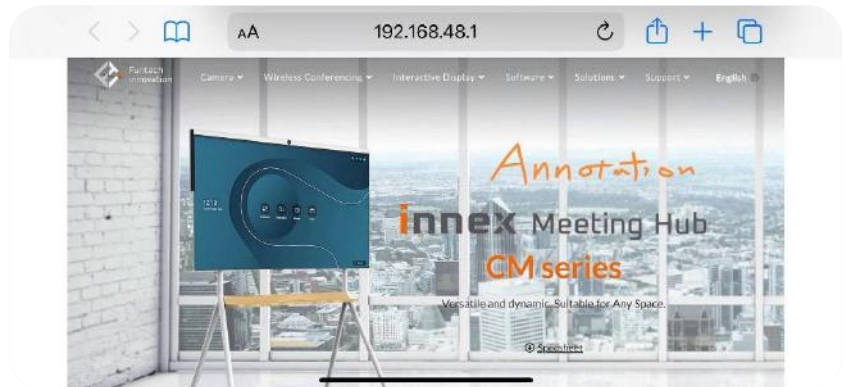
Users may choose to download the annotation file directly from the CM by scanning the QR Code.

****IMPORTANT:** The downloading devices must be connected to the hotspot of the CM to connect and download the annotation file.

QR code to scan



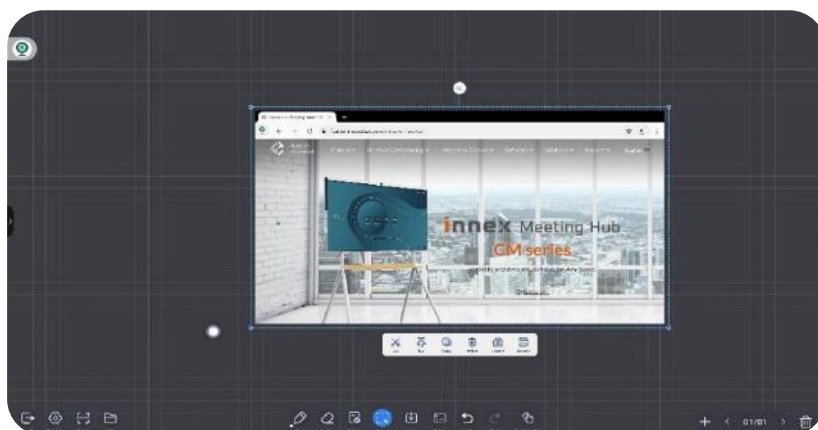
The annotation file will appear in the browser



7.4.4.2. Insert Into Whiteboard

Users may want to insert the annotation snapshot into the whiteboard for further brainstorming and in-depth discussion. After inserting into whiteboard, to prepare for the next annotation snapshot, users may return to the original screen sharing device or Chrome browser by pressing the return icon or the return key of the remote control.

The annotation file is insert into the whiteboard



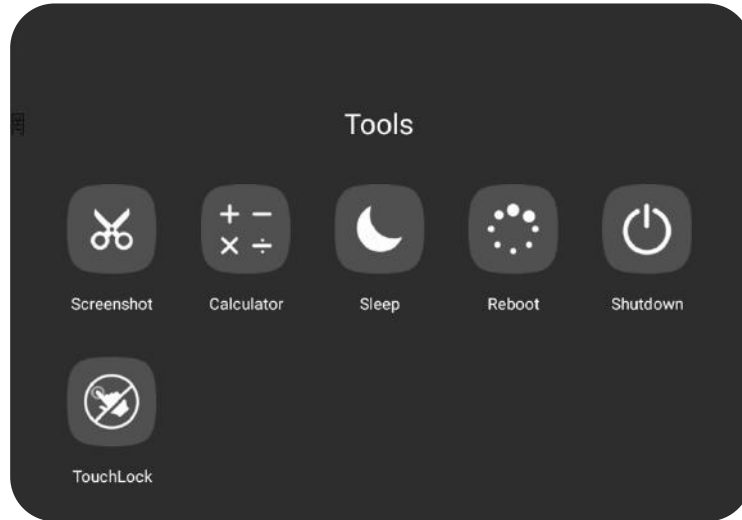
Use the return icon to return to previous.



7.5. Tools

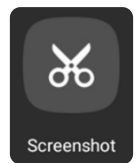


Users may have quick access to the frequently used action here.



1) Screenshot 2) Calculator 3) Sleep 4) Reboot 5) Shutdown 6) Touch Lock

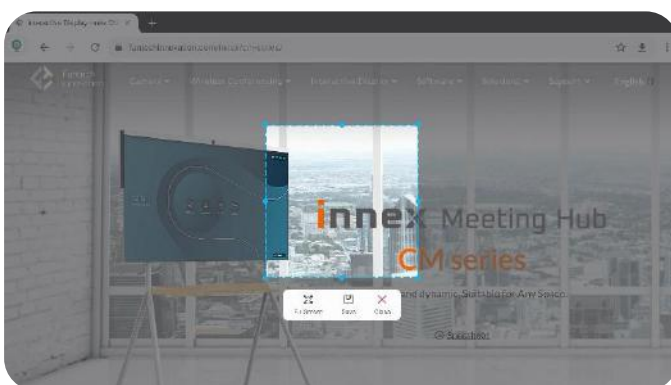
7.5.1. Screenshot



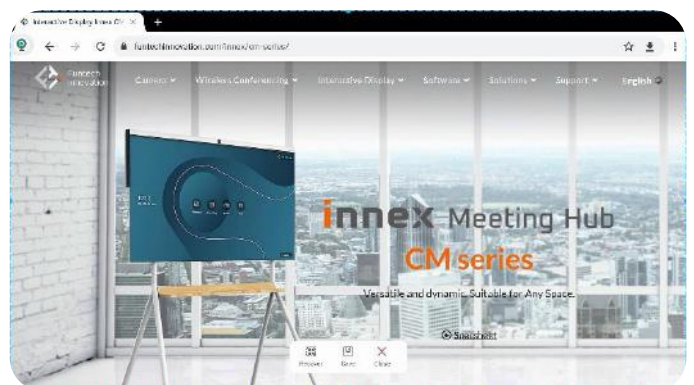
Users may screenshot a portion or the entire screen. This is useful to capture content from a laptop or phone screen share.

****Note:** Screenshot can only be saved into the screenshot folder, not supporting to be directly inserted into the whiteboard.

Screenshot a portion of the screen

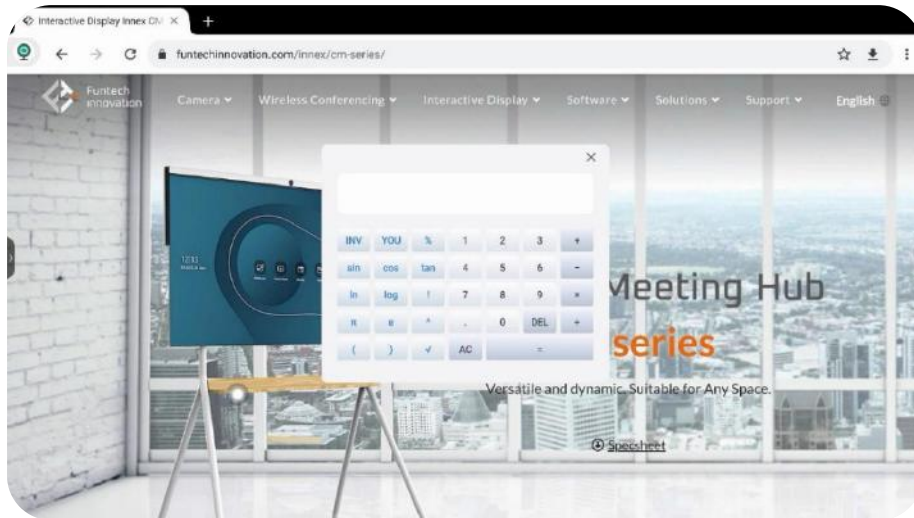


Screenshot the whole screen



7.5.2. Calculator

Users may access a on screen calculator.



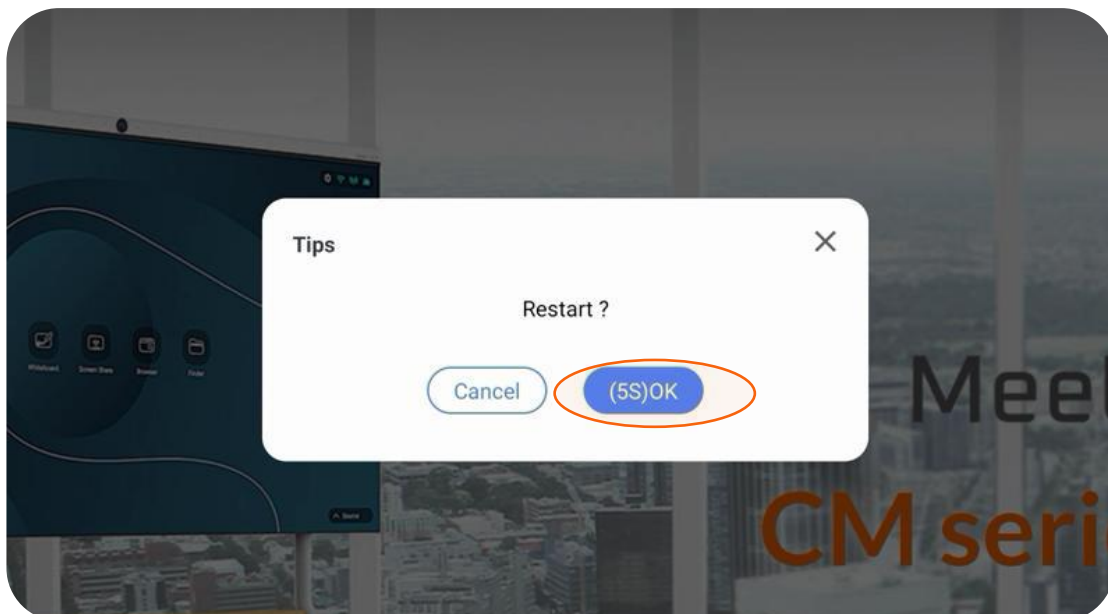
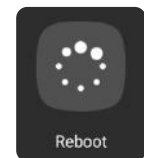
7.5.3. Sleep

Users may put the CM into sleep mode, wake it up by touching the display, or press the power button.



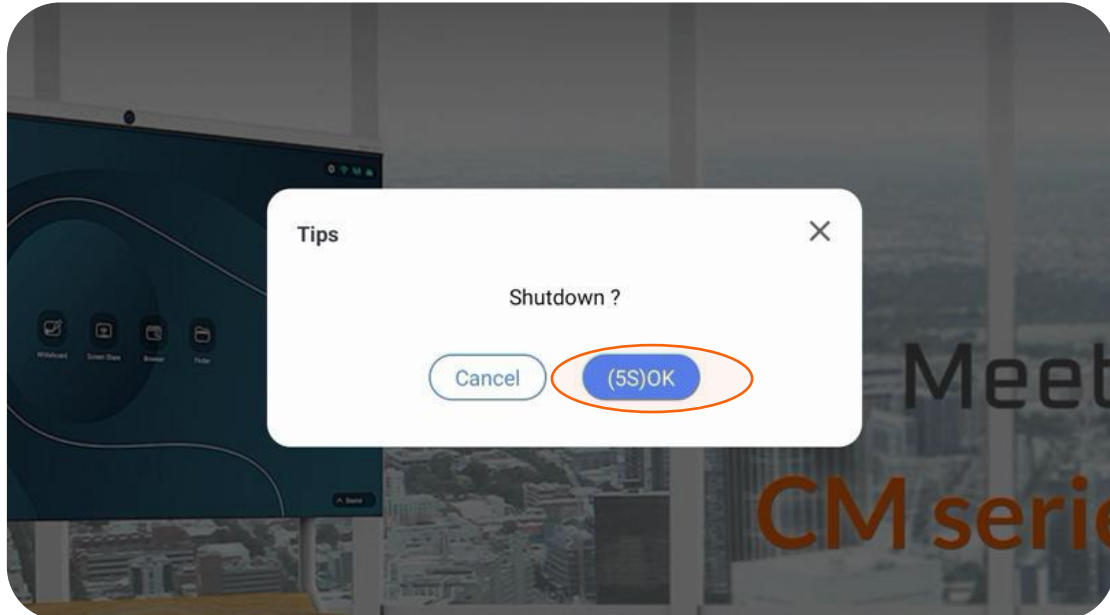
7.5.4. Reboot

Users may reboot the CM, the 5 seconds reboot countdown will start automatically.



7.5.5. Shutdown

Users may shut down the CM, the 5 seconds shutdown countdown will start automatically.



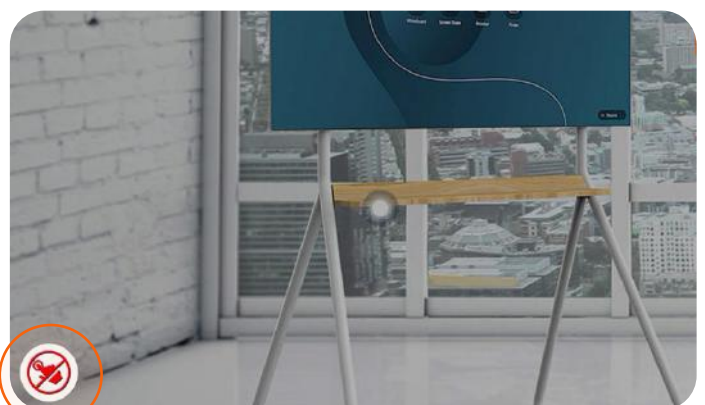
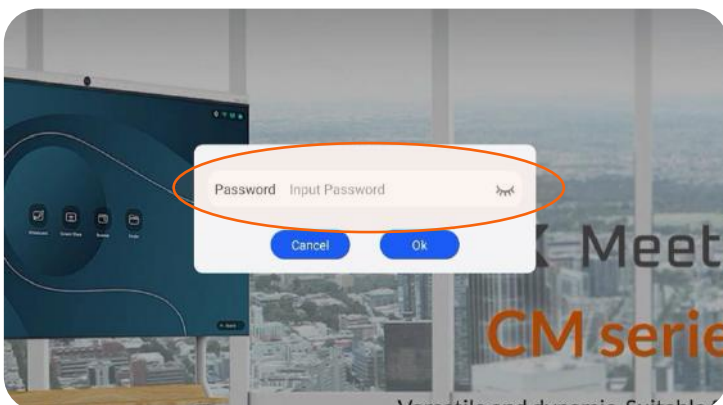
7.5.6. Touch Lock

Users may lock down the screen with an one-time password, it can be unlocked by typing in the one-time password. The display will remain lit, the signal remains active (example, a screen sharing session) however, touch will no longer be working. To remove the touch lock, users need to tap on the touch lock icon and type in the one-time password.



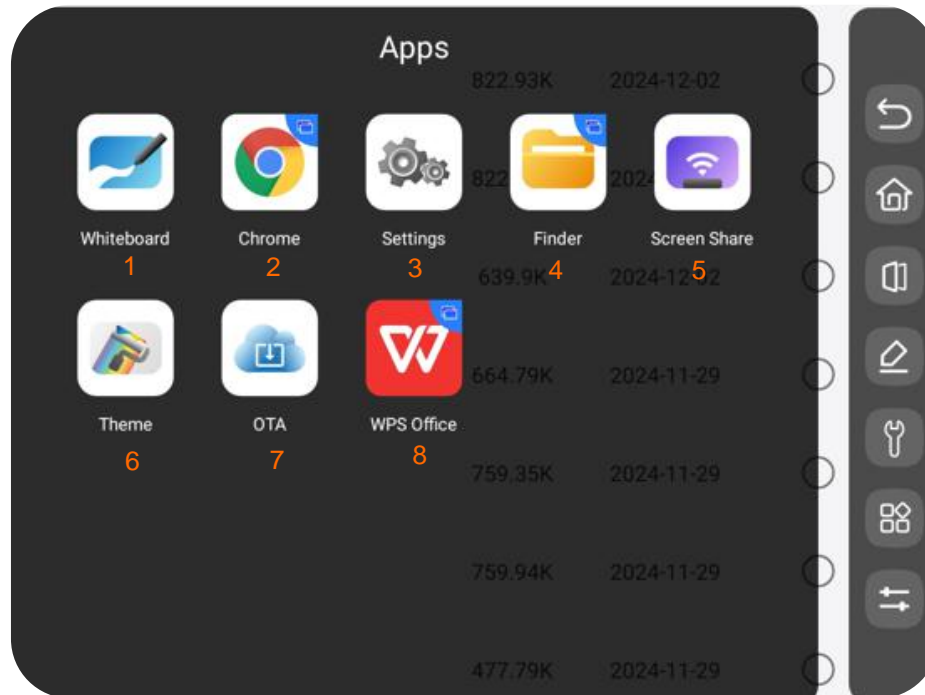
An one-time password is required to lock touch

Tap the touch lock icon to unlock with one-time password



7.6. Apps

Users may have quick access to various apps.



7.6.1. Whiteboard

Quick access to the Whiteboard. There is a dedicated section to explain more details. [\(Go to section\)](#)



7.6.2. Chrome Browser

Quick access to the Chrome Browser. [\(Go to section\)](#)



7.6.3. Setting

Quick access to the Setting. There is a dedicated section to explain more details. [\(Go to section\)](#)



7.6.4. Finder

Quick access to the Finder. There is a dedicated section to explain more details. [\(Go to section\)](#)



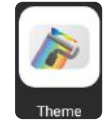
7.6.5. Screen Share

Quick access to the Connect Pro Receiver Setting. There is a dedicated section to explain more details. [\(Go to section\)](#)



7.6.6. Theme

Users may change the theme of the CM Home Screen. Under theme, there are two default themes to choose from.



Dark Theme (Default)

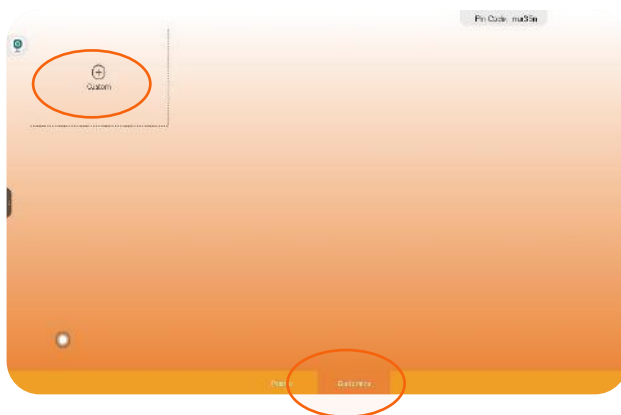


Light Theme

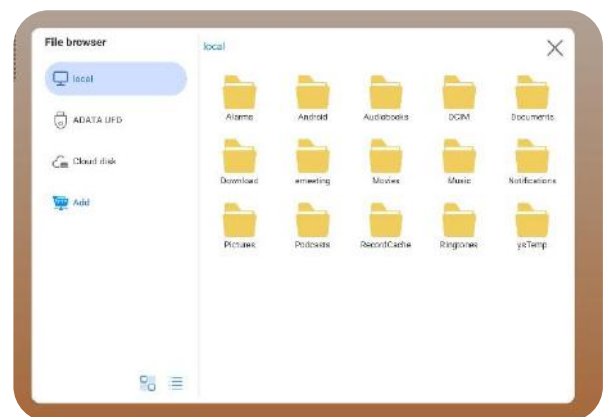


Users may also create their own custom theme by choosing a custom image.

Tap on Custom and add Custom image



Select image from Finder



7.6.7. OTA

Users may use the Over-The-Air update app to update the CM.



Update firmware online

Firmware	YS-ES982-T982-20241018.201832
Differential	1.5.4.8
MAC	1C54E60D2355

Firmware Upgrade

Online Upgrade

Online system upgrade

USB update

Local system upgrade

Software upgrade

Software Upgrade

Online APK upgrade

7.6.8. WPS Office



Users may use WPS which is a 3rd party software suite to open Office documents such as Power Point, Excel, Word, and PDF. Users do not need to enter WPS Office to open a document. Simply tap the document file in Finder ([Go to section](#)) and it will open up directly in WPS office.

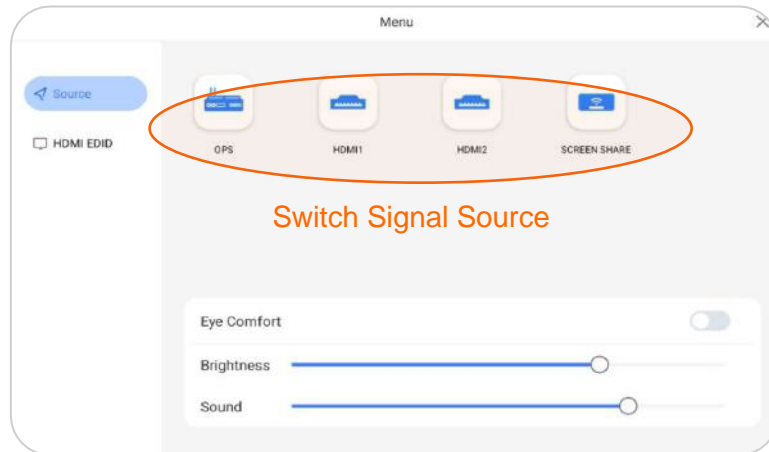
The WPS office offered additional features at a cost. Please note that it is at users' discretion and expense to pay for those features. Fun Technology Innovation Inc makes no involvement in the transaction and assume no responsibility.

7.7. Menu

7.7.1. Signal Sources



Users may switch signal sources, change screen brightness and sound volume here.

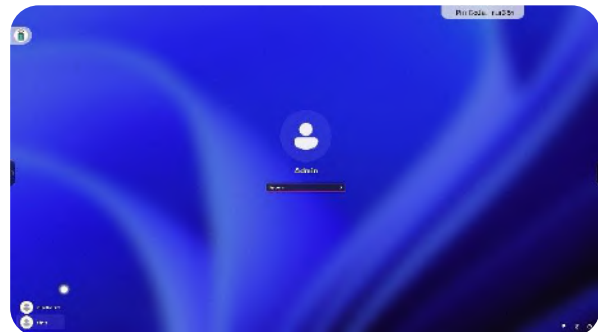


****IMPORTANT:** If there is no signal detected, a no signal page will appear. If an OPS is installed but not turned on. Changing the signal source to the OPS will boot it up.

No signal



OPS turns on



If switch to the screen share, while there is no screen sharing. The Connect Pro Receiver Home will be displayed.

While no screen sharing – Connect Pro Home



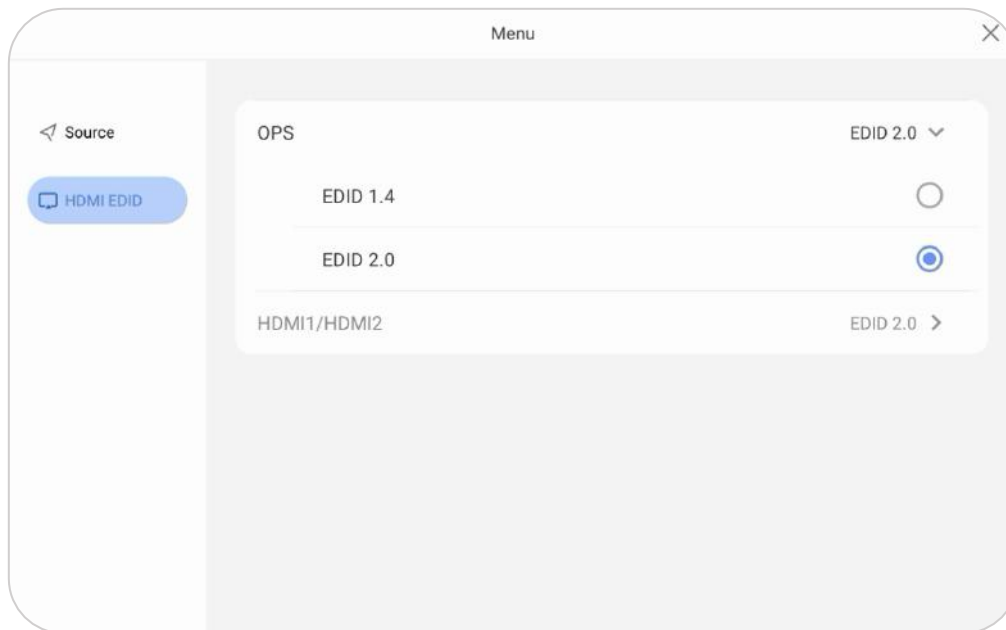
While Screen sharing - shows casting device



7.7.2. EDID setting

Users may change the EDID version between 1.4 and 2.0 here. Default to be in EDID 2.0, if the connected OPS or HDMI device only supports EDID1.4. It may be required to change the EDID from 2.0 to 1.4 to have better compatibility.

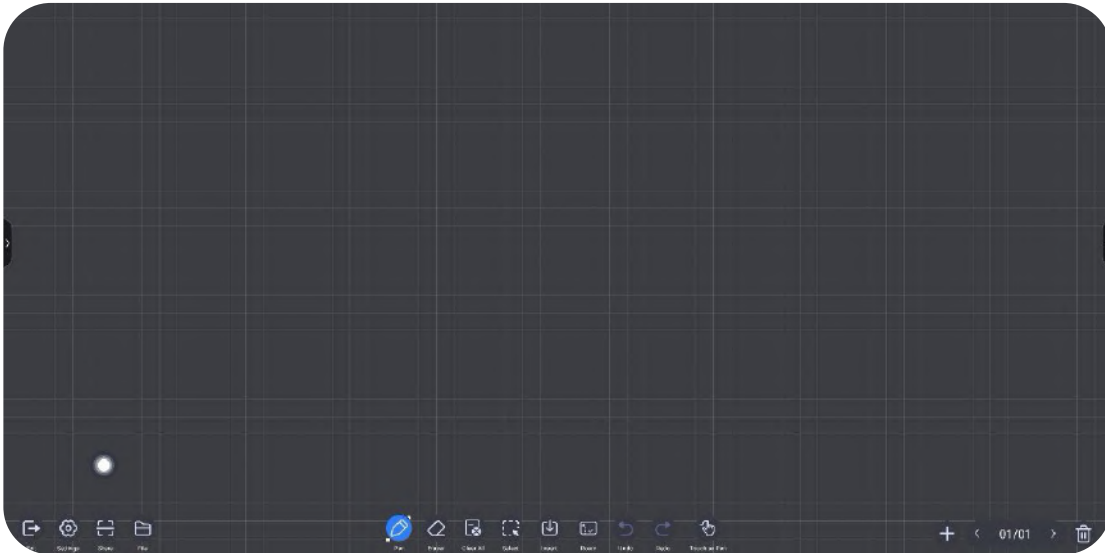
****Note:** EDID 1.4 devices are of the older generation and are mostly obsolete. The chance where users need to make this change to accommodate EDID1.4 specification devices is low.



****IMPORTANT:** The option to change the EDID will only become available when the system detects a signal from the OPS or the HDMI port.

8. Whiteboard

CM has a built-in Android Smart Whiteboard with many useful features. As a digital whiteboard that never run out of space. Users may magnify local discussion productivity through this incredible collaboration tool.



Setting and File Management

Canvas Action

Multiple Canvas Navigation

Innex Pen allows users to intuitively writes with the pen tip and erase with the eraser end.

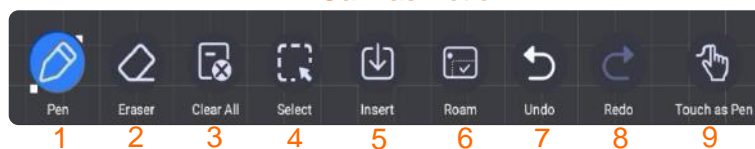
****IMPORTANT:** The pressure levels of the Innex Pen does NOT apply in this Whiteboard.



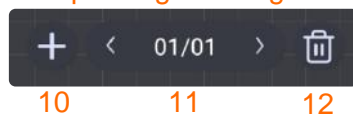
Canvas Actions – Users may take various actions on the current canvas such as write, erase, select, insert and more.

****IMPORTANT:** When mode of action is selected, the Innex Pen will carry out the selected action. For example, pen tip in eraser mode will work as an eraser instead of pen.

Canvas Action



Multiple Pages Navigation

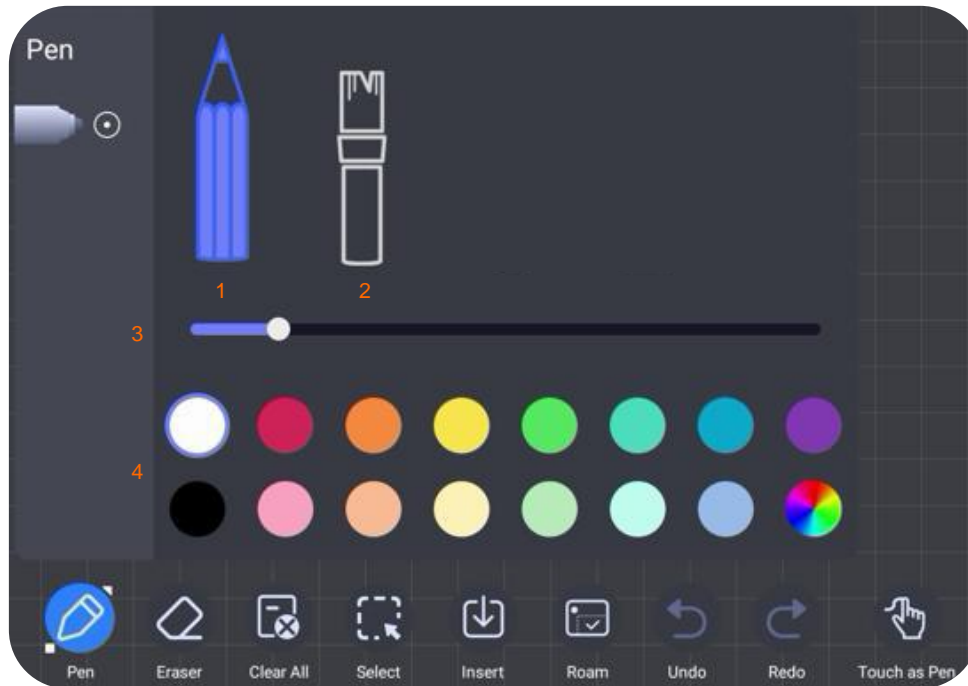
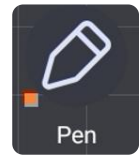


Setting And File Management



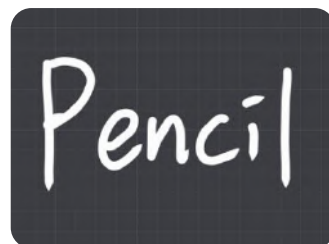
8.1. Pen

Users may choose different pen types, change colors, and adjust thickness of the ink. Tap on the pen icon once to access these options.



8.1.1. Pencil

Default pen mode, produces pencil like ink



8.1.2. Highlighter

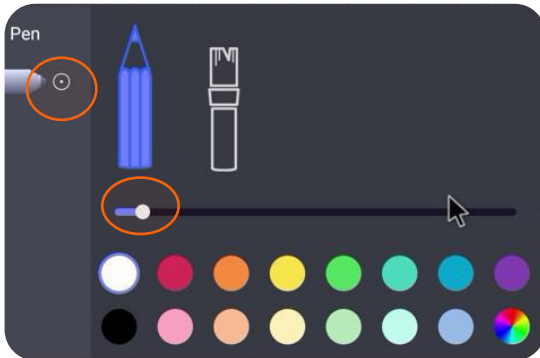
Produces highlighter like ink.



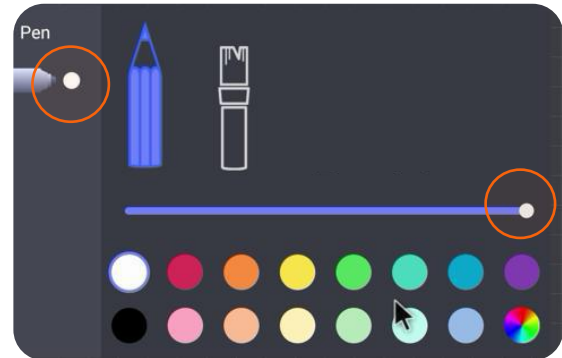
8.1.3. Ink Thickness

Users may change the ink thickness by moving the thickness slide bar.

Original ink size



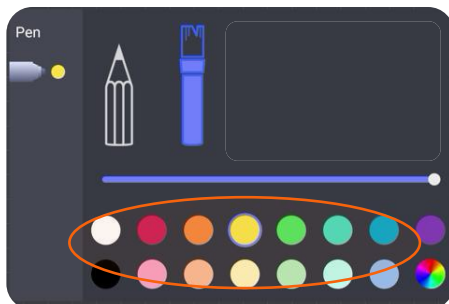
Slide to the right to get thicker ink



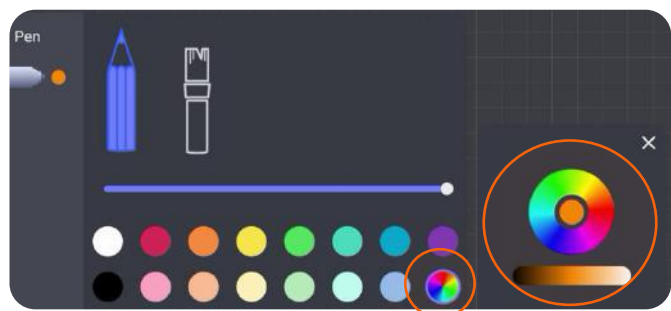
8.1.4. Ink Color

Users may change the ink color by selecting the available color or create a custom color through the color wheel.

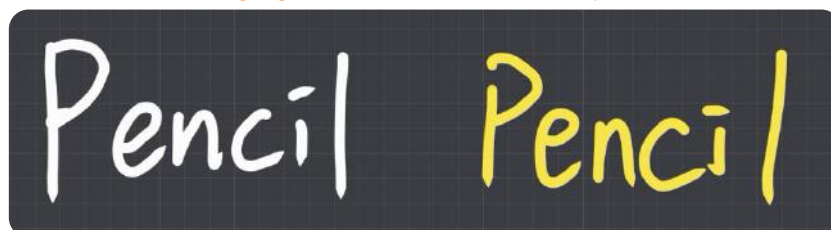
Available color option



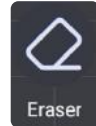
Custom color from the color wheel



Changing ink color from white to yellow



8.2. Eraser
8.2.1. Eraser Behavior



Users may erase ink from pencil and highlighter only. The eraser only erases the partial ink stroke that it touches instead of the entire ink stroke.

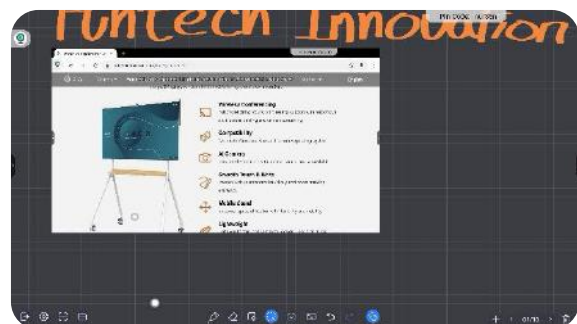
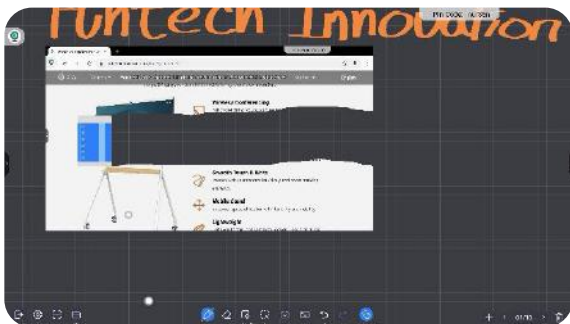
The eraser only erases the partial stroke it touches



When moving the eraser over an object (Smart-art, images, annotation), it may seem that the object is getting erased, however it is just a temporary representation of the eraser path.

Eraser appears to be erasing

After releasing the eraser, returns to normal

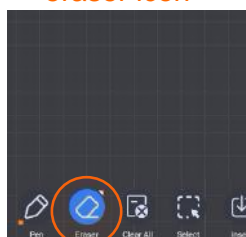


****IMPORTANT:** If there is any ink below an object, it would be erased even though the object is unaffected.

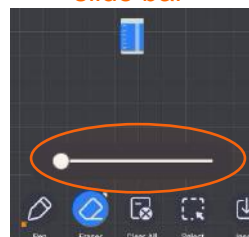
8.2.2. Change Eraser Size

Users may change the size of the eraser by tapping on the eraser icon to see slide bar.

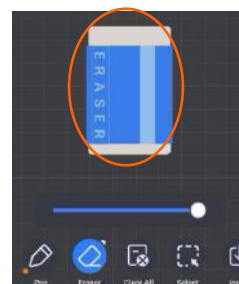
Tap the eraser icon



Adjust size slide bar

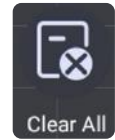


Preview size



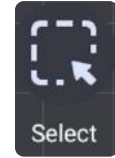
8.3. Clear All

Clear all will clear all inks and objects from the entire page. Other pages of the same whiteboard file will not be affected.



8.4. Select

Select allows users to select any or multiple inks and objects within the whiteboard and carry any of the following actions: resize, rotate, re-position, copy, delete, invert X, invert Y.



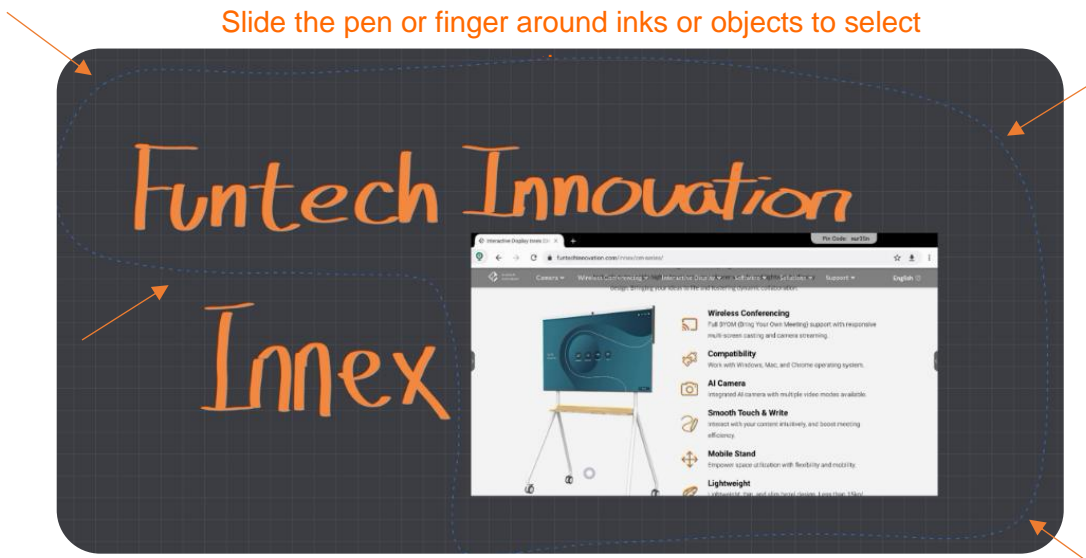
8.4.1. How To Select

Select inks or objects by using the pen or finger to slide on the object directly. To select a group of inks or objects, continue to slide over them, or surround the inks or objects.

Slide the pen or finger over the inks or objects to select it



Slide the pen or finger around inks or objects to select



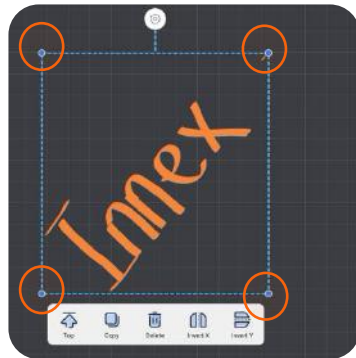
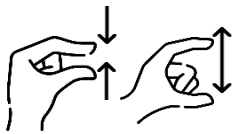
8.4.2. Actions After Selected

8.4.2.1. Resize

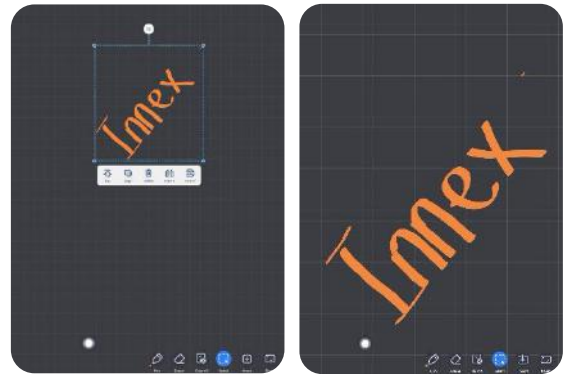
Users may resize inks or objects on canvas by using two fingers to enlarge or shrink object or drag the 4 corners.

Two fingers or drag the corner

Make smaller Make bigger



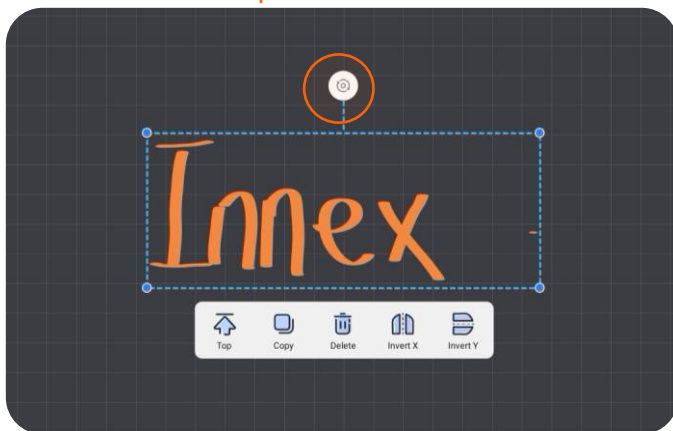
Ink or object will resize



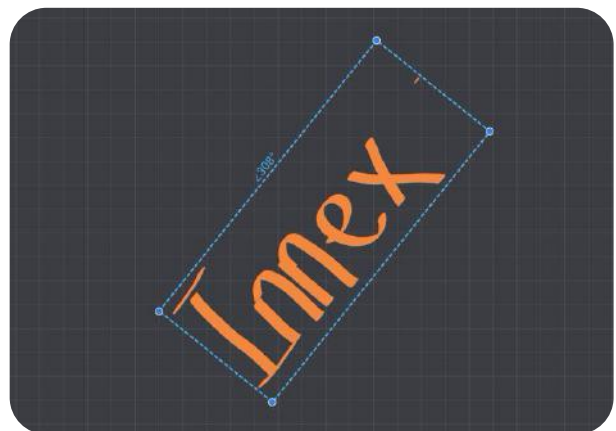
8.4.2.2. Rotate

Users may rotate ink or objects by dragging the rotate icon clockwise or counterclockwise.

Tap the rotate icon



Rotated counterclockwise



8.4.2.3. Re-position

Users may select inks or objects and move them to any part of the same canvas.

Move left or right



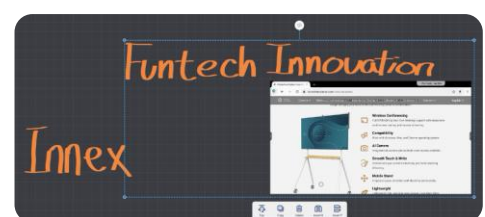
Move up or down



Select the inks and objects

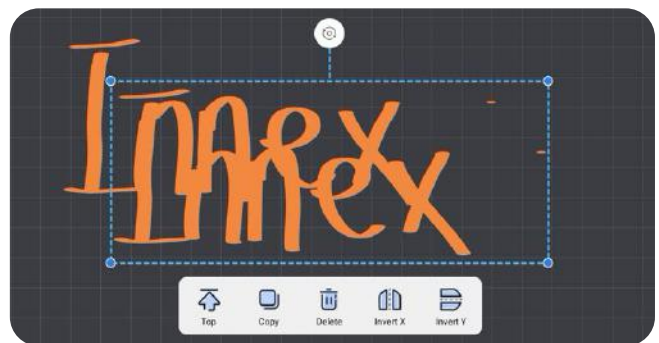
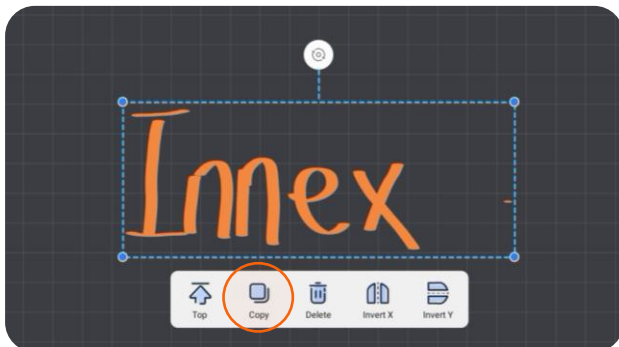


Re-position to the right



8.4.2.4. Create Copies

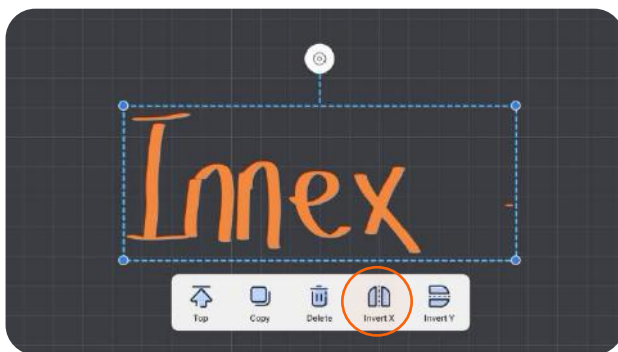
Users may create copies of inks or objects.



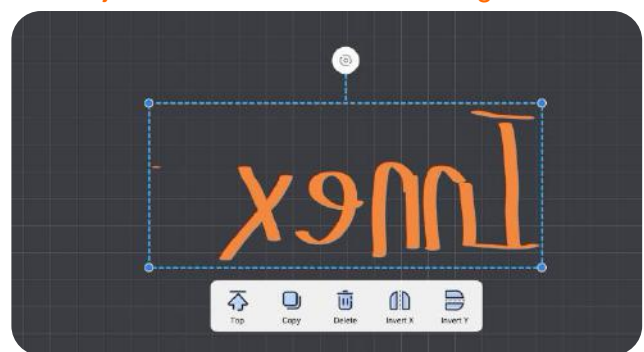
8.4.2.5. Invert X

Users may invert inks or objects horizontally

Select Invert X



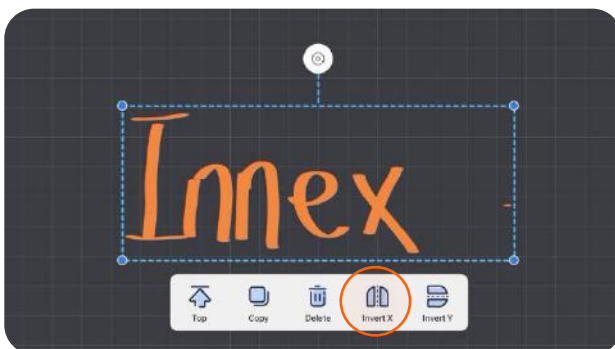
Object will invert horizontal along X axis



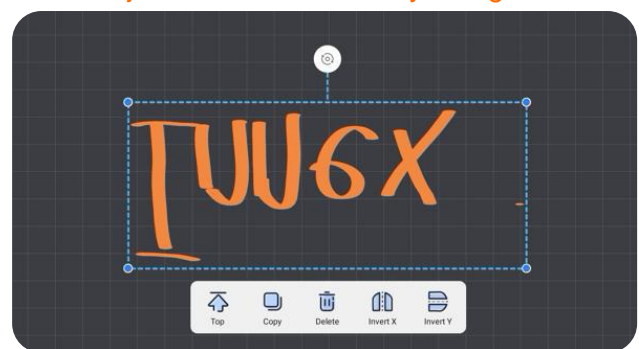
8.4.2.6. Invert Y

Users may invert inks or objects vertically

Select Invert Y



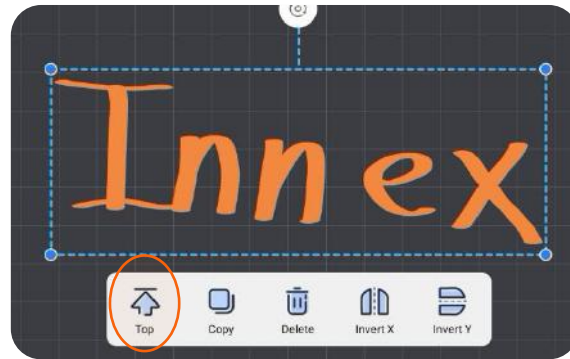
Object will invert vertically along Y axis



8.4.2.7. Top order

Users may bring the selected inks or object to be on top of other inks or objects, so the selected ones are always visible.

**Note: Newest Inks or object that appears on the whiteboard will always receive the highest top order.



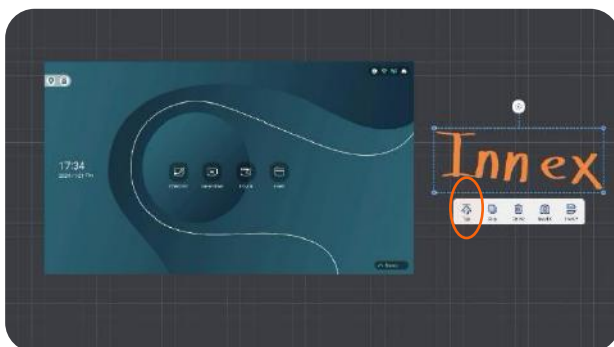
1. Inserted an image file after writing the word



2. The image file has higher ranking top order and appear on top of Innex



3. Select Innex and tap on Top to give it the highest-ranking top order

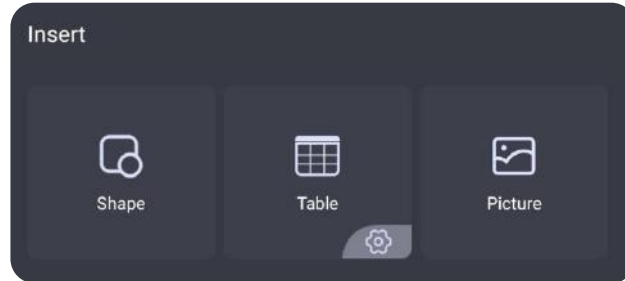
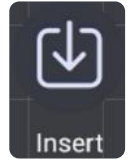


4. Now move the word Innex to the image and Innex will appear on top of the image



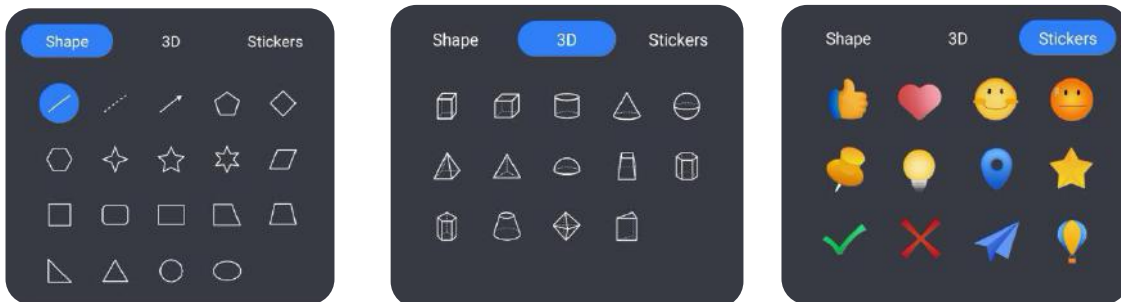
8.5. Insert

Users may insert smart art, tables and images into the whiteboard.



8.5.1. Insert Shape

Users may insert 2D shapes, 3D object, and stickers into the whiteboard.

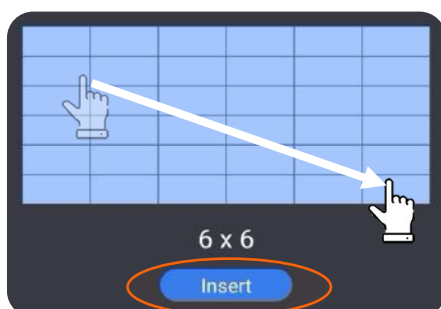


****Note:** Select the object, and touch and drag across the canvas to pin the object onto the canvas. Drag longer to create a bigger object size. Repeat the dragging motion to insert the object repeatedly. (Does NOT apply to Stickers)

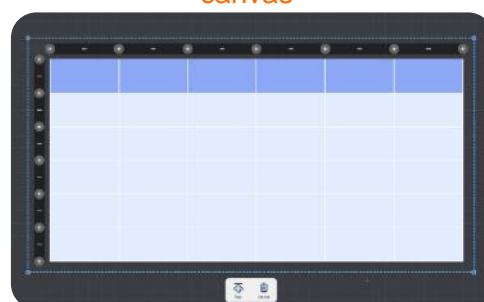
8.5.2. Insert Table

Users may insert a table into the whiteboard. Highlight the number of rows and columns and tap insert.

Highlight from top left to button right to choose number of columns



Tables will be inserted onto the canvas

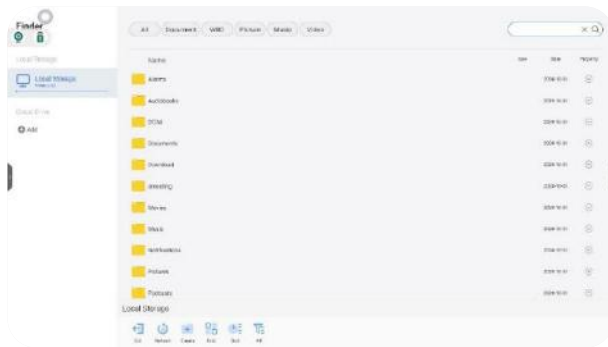


8.5.3. Insert picture

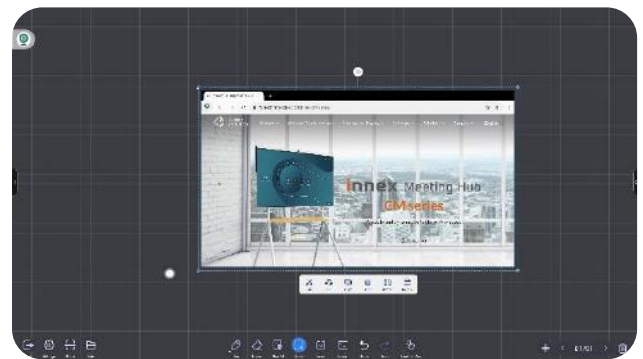
Use the file Finder to locate the image file from the local hard drive or the USB drive.

****IMPORTANT:** USB lock must be disabled in system setting. ([Go to section](#))

Locate image file Finder or USB drive

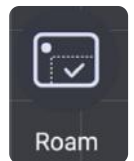


An Image is inserted onto the canvas



8.6. Roam

Users may use the Roam feature to navigate to different areas of the canvas. This becomes useful only after the canvas size exceeds the current display area. To make the canvas bigger, Users may use two fingers to zoom in, or use two fingers to pan up, down, left right create more space in the direction of the pan.



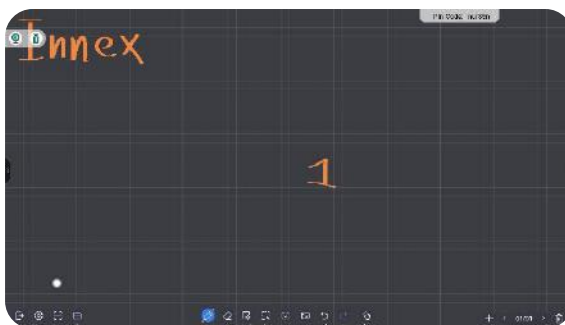
8.6.1. How to Pan

Create more space by panning to different parts of the canvas. Simply slide two fingers across the canvas to move the canvas and create more space. For example, slide fingers left to pan right.

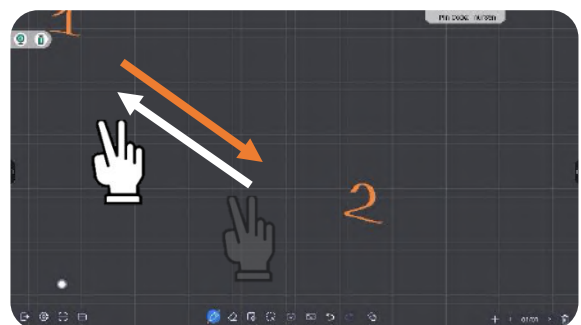
Pan any direction with two fingers



Original display area

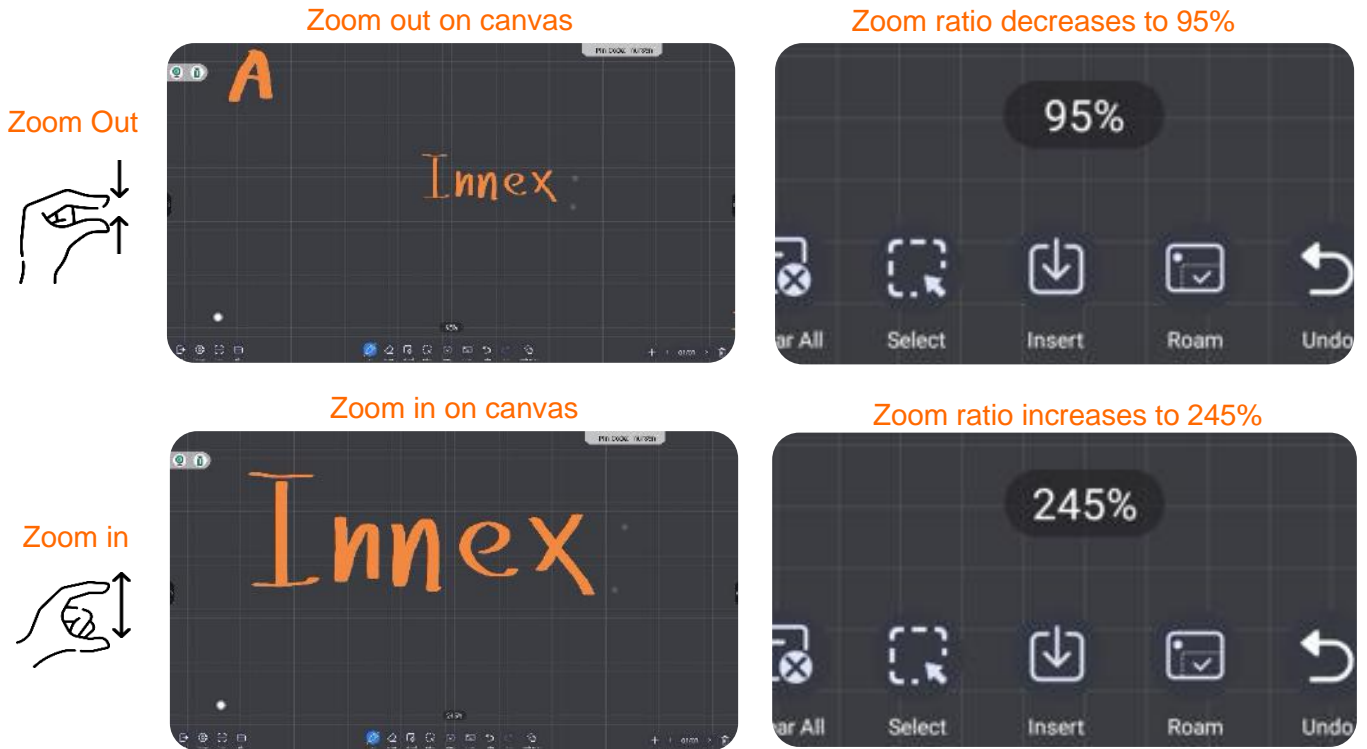


Slide top left to Pan toward bottom right



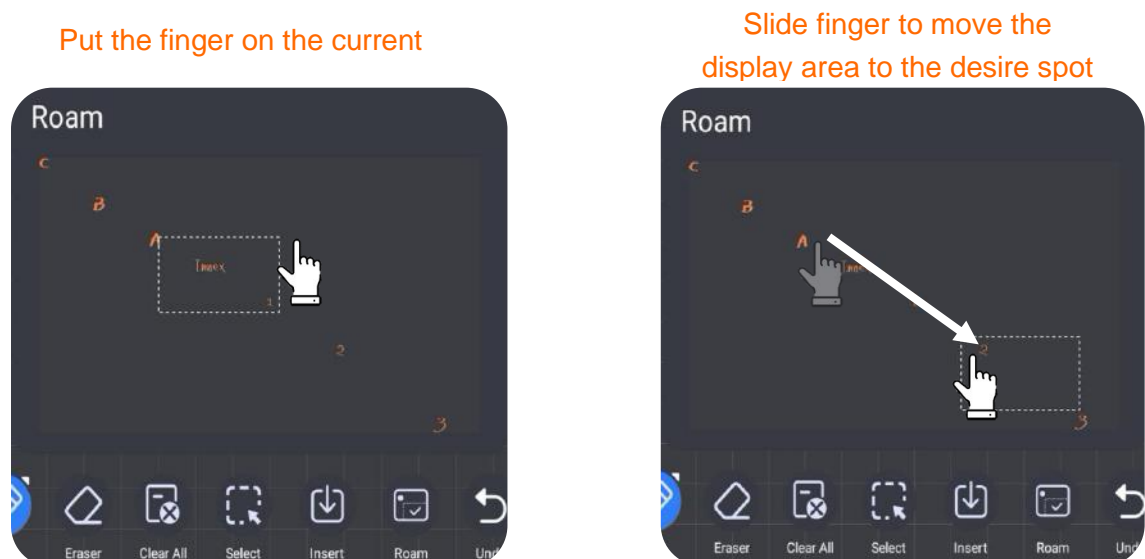
8.6.2. How to Zoom in and out

Users may zoom in and out of canvas by pinching in and pinching out with two fingers. The current zoom ratio will be visible at the bottom. The default zoom ratio is 100%.



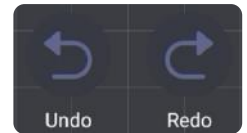
8.6.3. How to Roam

Once Users create more canvas space than it is currently displayed, the roam features then becomes useful to use to navigate to different part of the canvas.



8.7. Undo and redo

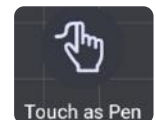
Users may undo and redo the action in the current page. Undo and redo only apply to the actions taken in the current page. For example, sequences of actions in page 1 and page 2 are separated sequences.



****IMPORTANT:** After exiting the whiteboard file, the action sequences are reset and undo or redo would not take effect.

8.8. Touch as Pen

Users may activate this icon and write with their finger instead of the Innex pen.



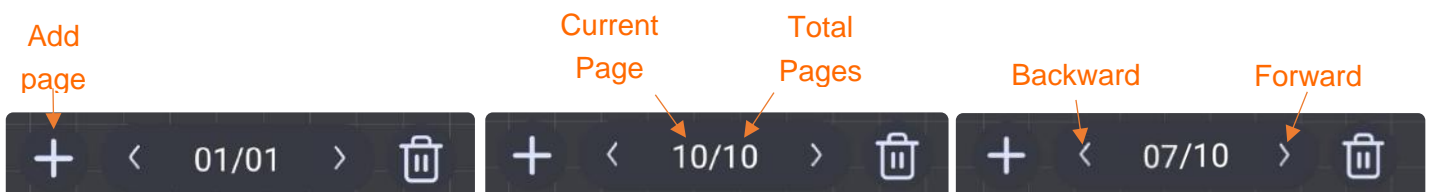
****Note:** This is required for the pen mode only.

8.9. Canvas Action Summary

Canvas Action	Innex Pen		Single Finger		Dual Fingers	
	Pen tip	Eraser	Touch as pen Disabled	Touch as pen Enabled		
Pen	Writes	Erase	No Effect	Pen	Pan	Zoom in / out
Eraser	Erase					
Clear All	NA - this is not an active mode					
Select	Select				Pan	No Effect
Insert	Insert				Pan	Zoom in / out
Roam	NA - this is not an active mode					
Un-do	NA - this is not an active mode					
Re-do	NA - this is not an active mode					

8.10. Add More Pages And Navigate Pages

Users may add, delete, and navigate pages in the current whiteboard.

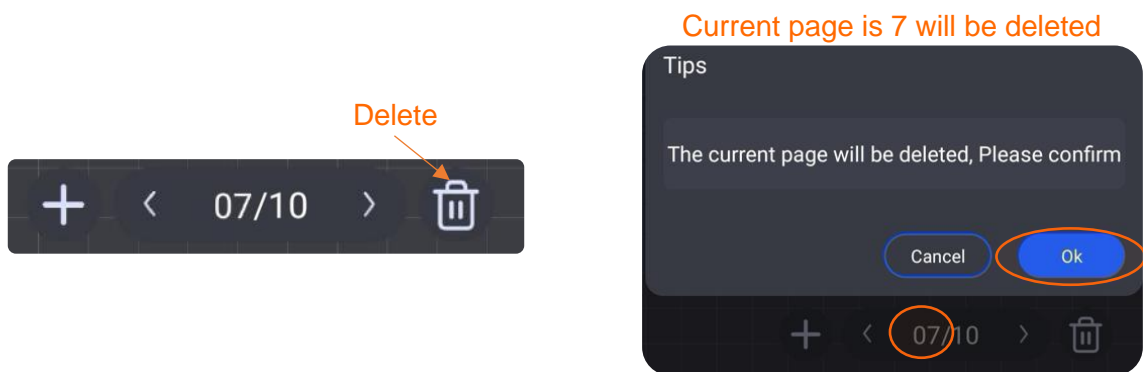


Or Long press to activate the slide menu for faster navigation.

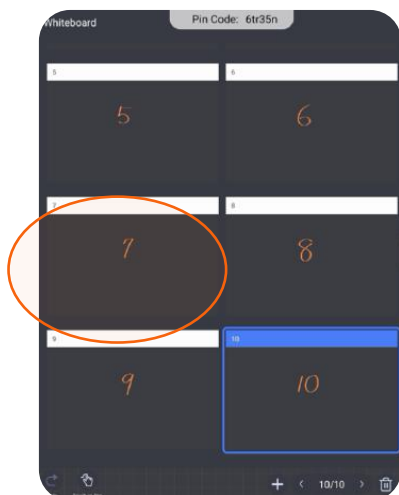


8.11. Delete Page

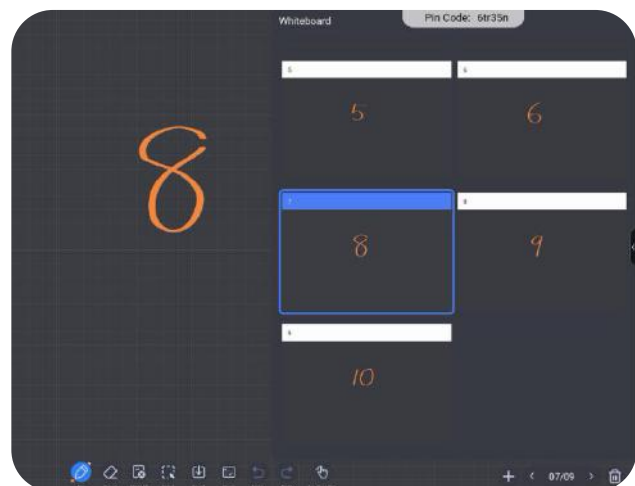
Users may delete the current page by tapping on the delete icon.



Page 7 was visible before deleted

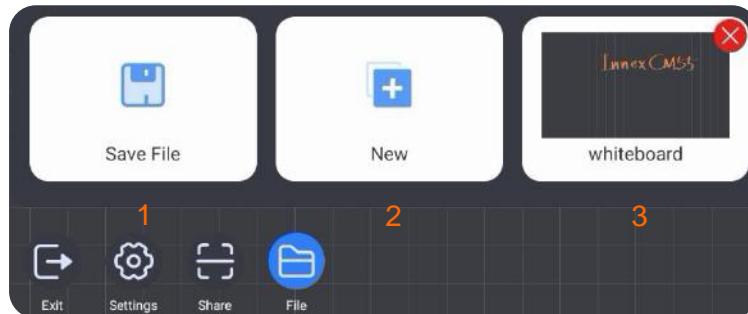


Page 7 was deleted and only 9 pages left



8.12. File

Users may save, start and load a new whiteboard file by accessing File.



1) Save File 2) New File 3) Load file section

8.12.1. Save File

Users may save the current whiteboard file as a Whiteboard file, Images, or PDF.

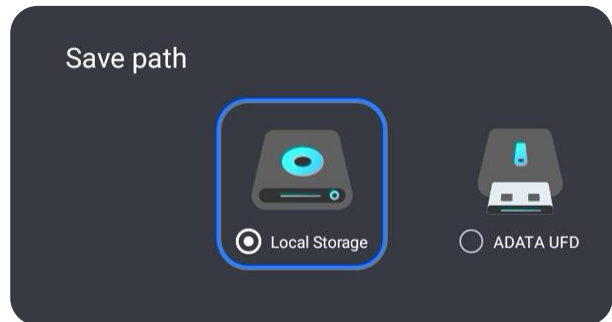
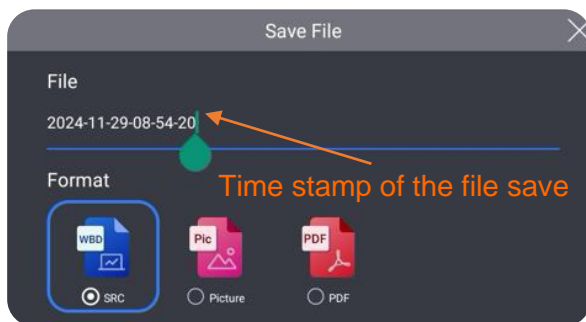


8.12.1.1. Save Whiteboard file as whiteboard

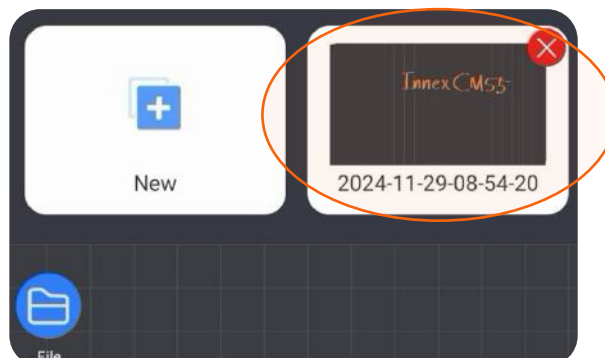
Users may save the current whiteboard file and resume work in future session. Once saved, the whiteboard will appear in the file section. Click on the save whiteboard file to access it anytime.

Select SRC – Rename file name if needed

Whiteboard file saved to local storage or other



Only the whiteboard saved to local storage will appear in the load file section

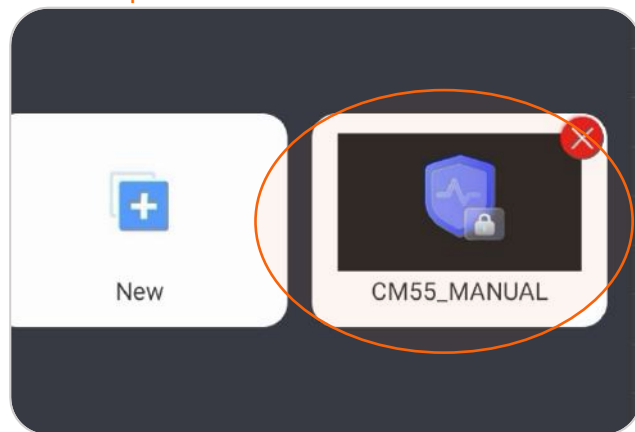


Users may also turn on encrypted save to add password protection to a whiteboard file.

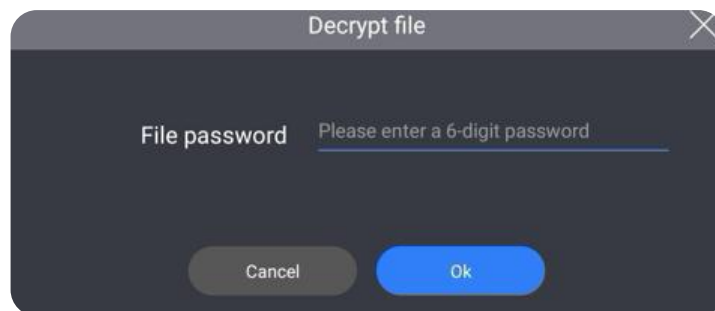
Turn on encrypted save and type in a 6 digits password



An encrypted whiteboard session is represented with a shield and lock

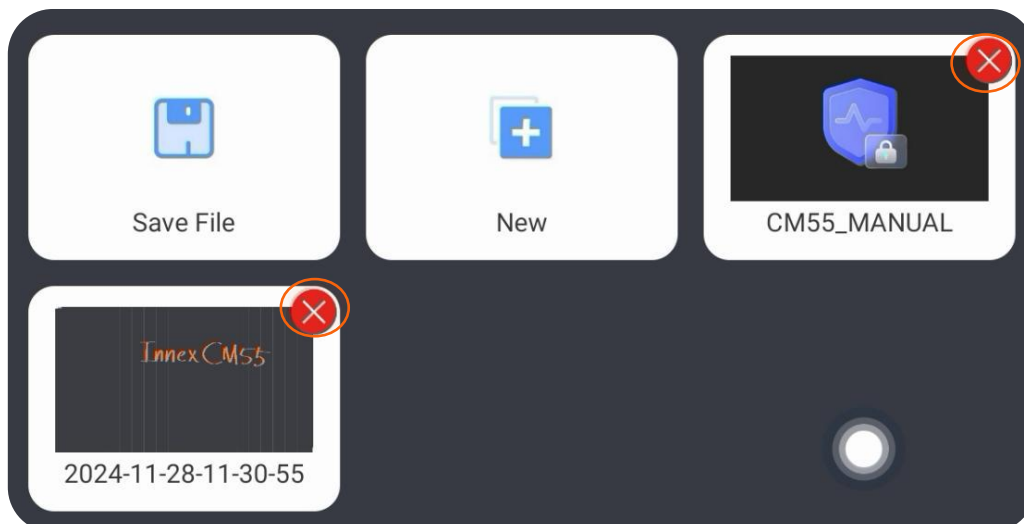


Users need to insert the correct password to access an encrypted whiteboard.



To delete a whiteboard, tap the X icon on the top right.

IMPORTANT: This applies to encrypted whiteboard as well, and the deleted file cannot be recovered.



8.12.1.2. Save Whiteboard file as Pictures

Users may save the Whiteboard files as images. All the pages of the whiteboard will be saved as images. The image resolution will be the same as the display resolution of 3840*2160 as the image is a snapshot of the current display area from all existing pages.

All 4 pages of the current whiteboard session are saved

Current displayed area of all 4 pages are saved as separate images

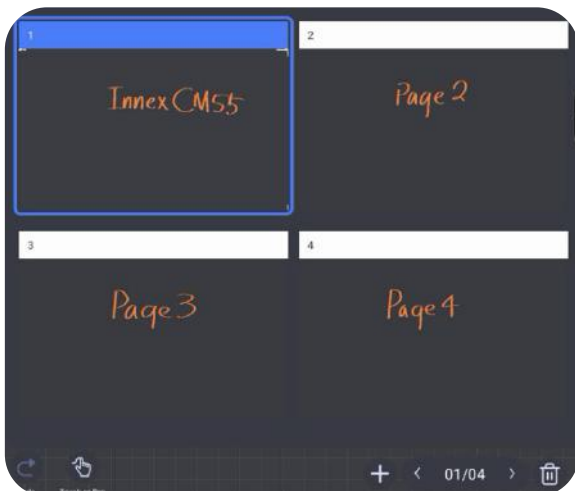


8.12.1.3. Save Whiteboard file as PDF

Users may save the Whiteboard files as PDF. All the pages of the whiteboard will be saved in one file. Only the current display area of all pages will be saved.

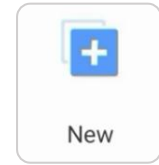
All 4 pages of the current whiteboard session are saved

Current displayed area of all 4 pages are saved as 1 PDF file



8.12.2. New Whiteboard File

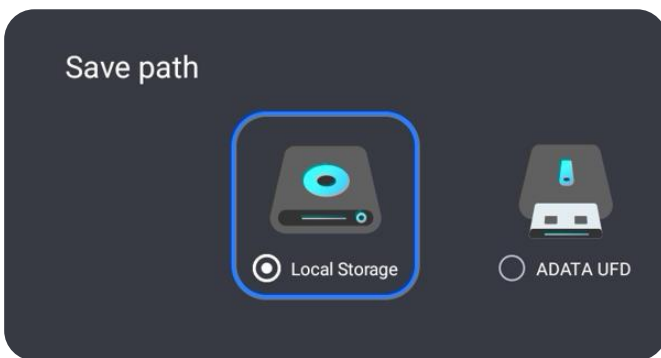
Users may create a new whiteboard file anytime by tapping on the New icon.



8.12.3. Load Whiteboard from load file section

Users may load the whiteboard from the load file section which will appear if the whiteboard files are saved to local storage.

Whiteboard file saved to local storage or other



Only the whiteboard saved to local storage will appear in the load file section



The saved whiteboard sessions are sorted by Z to A alphabetical order

Tap any file to launch the whiteboard session

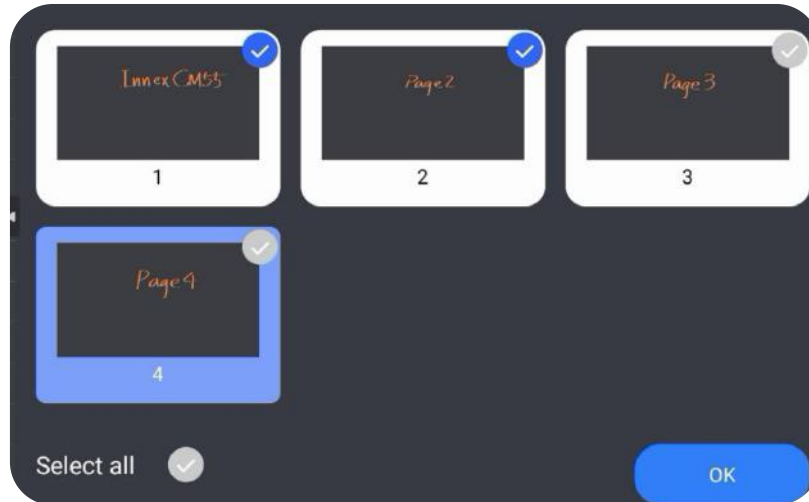


8.13. Share Whiteboard file through QR code

Users may share the current whiteboard file using the QR code. If there are multiple pages in this whiteboard files, only the selected whiteboard pages will be shared as images.



If there are multiple pages, select the page to be shared

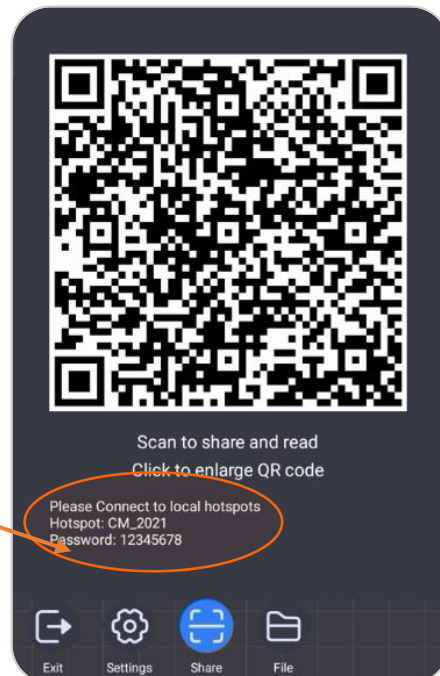


Scan Qrcode to Download

**device need to connect to CM55 hotspot

Only the selected pages are shared

IMPORTANT:
Device must
connect to CM55
hotspot to download

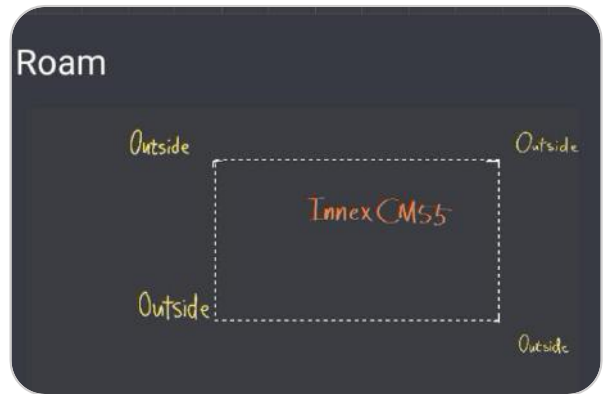


The image resolution will be the same as the display resolution of 3840*2160 as the image is a snapshot of the current display area from the selected pages.

Current displayed area of the whiteboard page is captured in 3840*2160 resolution



Area outside of the current displayed area (white frame in roam) is not shown or shared



The current displayed area from each page is previewed for reference

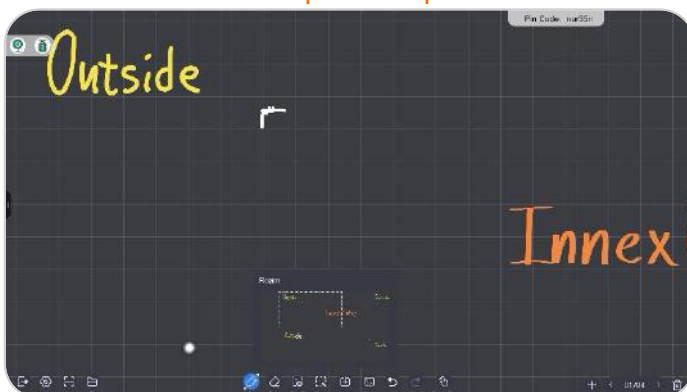


The shared image reflects the preview exactly

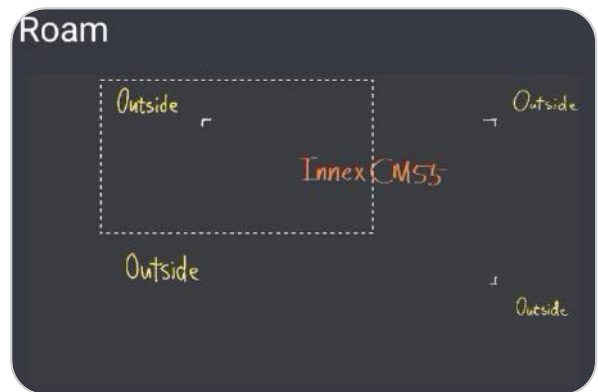


If users move the canvas and change the current displayed area.

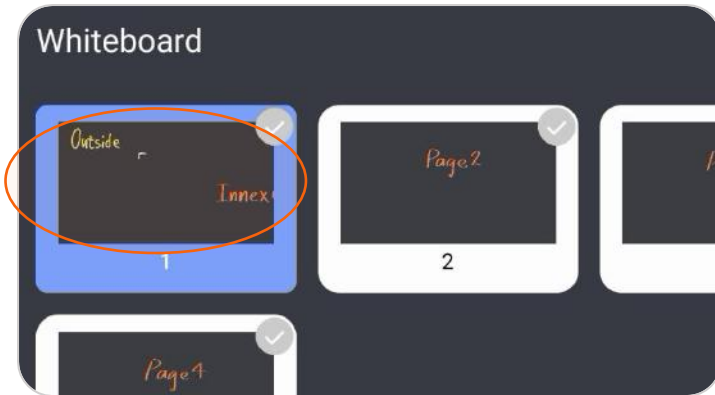
Current displayed area now changed from the previous position



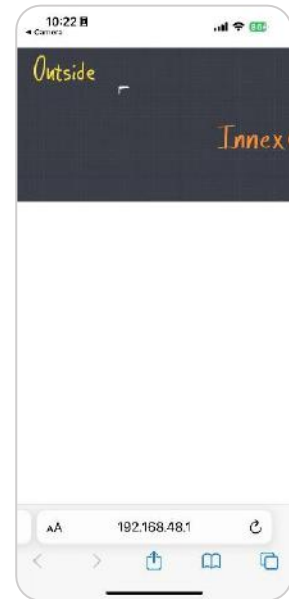
The white frame in roam represents the new display area in real time



The preview will reflect the change in real time

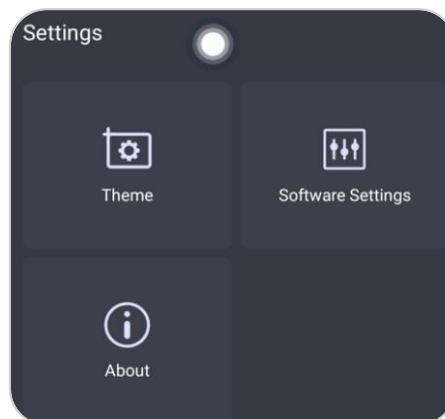
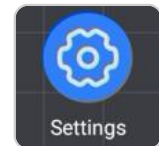


The shared image reflects the preview exactly



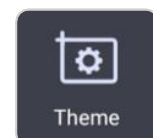
8.14. Setting

Users may access whiteboard setting to access theme, software setting and about.



8.14.1. Whiteboard Theme

Users modify background color, line pattern or even import customize background image.



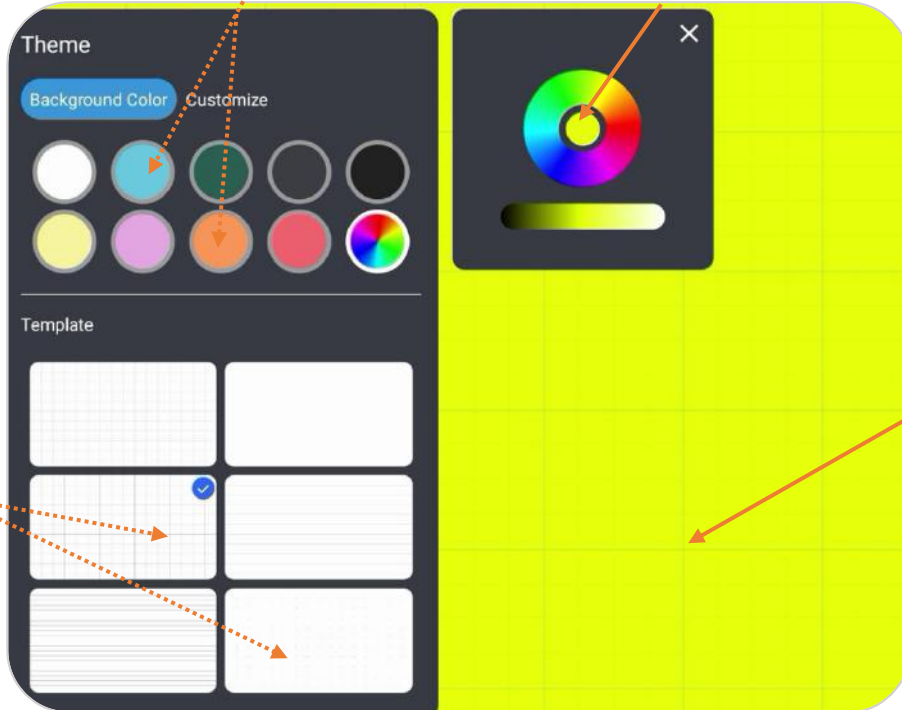
****IMPORTANT:** The chosen background color, pattern, or custom image apply to the current whiteboard page or future new pages in the same whiteboard file. If a new whiteboard file is created, it will take the background of the last opened whiteboard.

Choose default background color

Or create new color using the color wheel

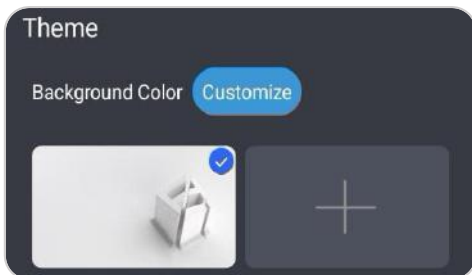
Different templates provides different line patterns

Result will appear immediately on the canvas



Or Customize background by selecting an image

A customized background will appear for the current and future pages for the current whiteboard session

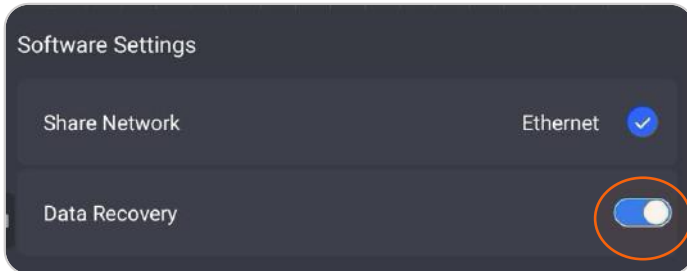


8.14.2. Whiteboard Software setting

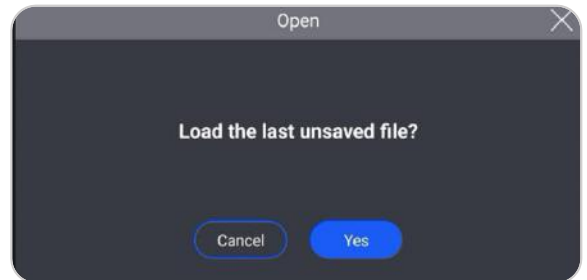
Users may turn on or turn off Data Recovery (enabled by default). When turned off, the whiteboard will NOT remember the last unsaved whiteboard file.



Data Recovery is enabled by default

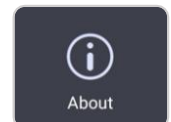


When abled last unsaved file will be remembered by the whiteboard

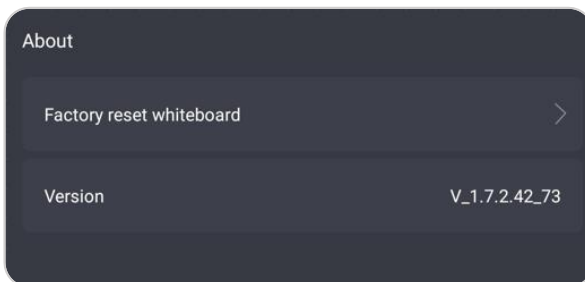


8.14.3. About Whiteboard

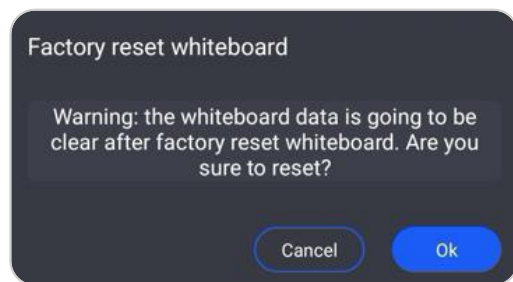
Users may read the whiteboard version here, or factory reset the whiteboard. This will reset the whiteboard setting only. All the whiteboard files will remain accessible.



Read the whiteboard version or factory reset the whiteboard

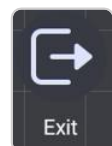


A pop-up message will appear after tapping on factory reset whiteboard



8.15. Exit Whiteboard

Users may tap exit to close the whiteboard app.

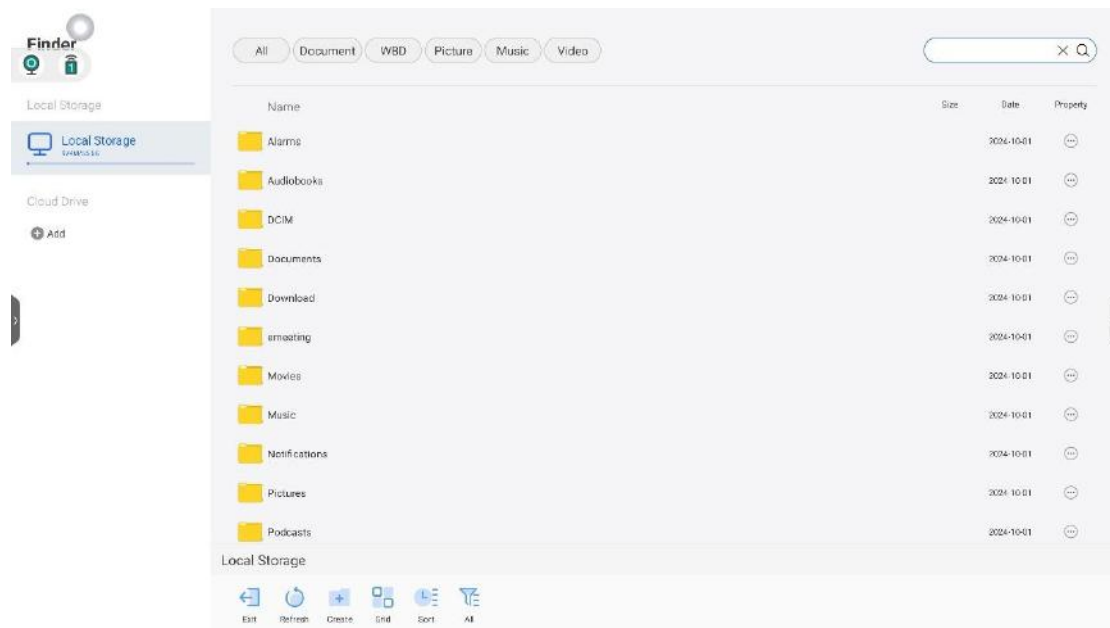


9. Finder

Users may use Finder to access all the files in the local hard drive, external USB drive, and cloud drive.

****IMPORTANT:** Do not leave sensitive data on the CM.

Simply tap the folder or file once to access it.



9.1. Local Storage

Users may store and access files on the local hard drive.

9.2. External USB drive

Users may connect USB drives to the USB ports CM. The USB ports are located at the back of the display.

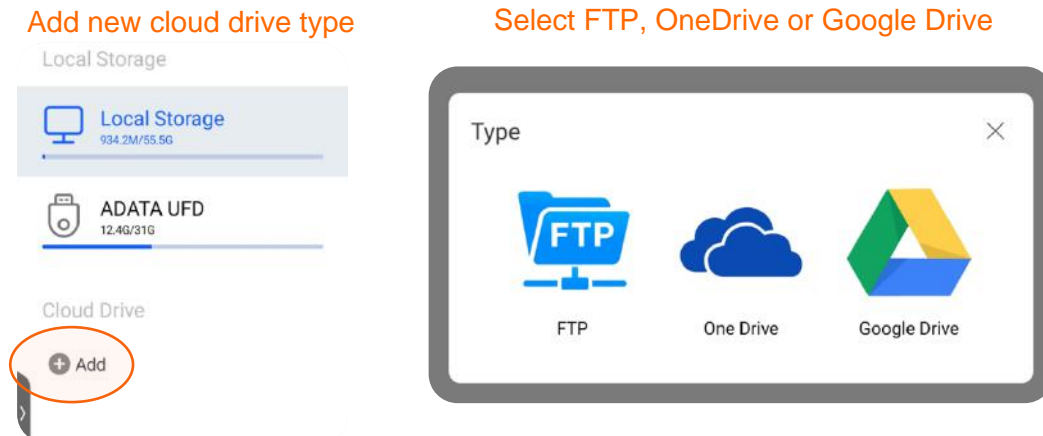
****IMPORTANT:** The USB Drive lock must be disabled in setting. ([Go to section](#))



9.3. Cloud Drive

Users may connect to FTP drive, OneDrive or Google Drive.

****IMPORTANT:** Be careful to grant access to the cloud drive as CM is a public device. To protect privacy, remember to sign off after use.



9.3.1. FTP

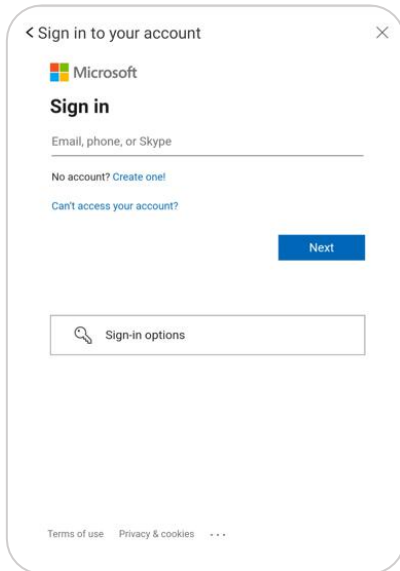
Users may set up the connection to a FTP server.

The image shows a dialog box titled 'FTP' with a close button (X) in the top right corner. It contains four input fields: 'Hostname', 'Port', 'Username', and 'Password'. At the bottom of the dialog, there are two buttons: 'Cancel' and 'Ok'.

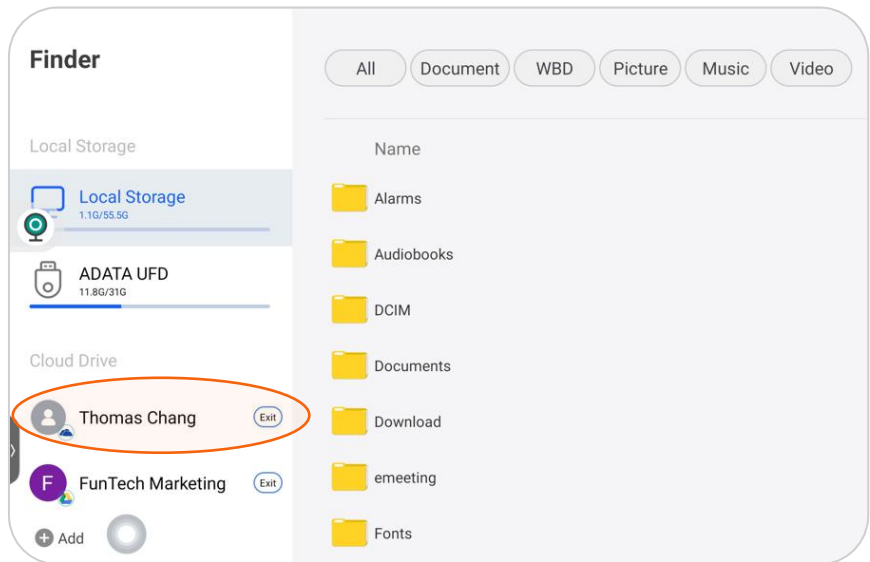
9.3.2. One Drive

Users may set up the connection to an One Drive

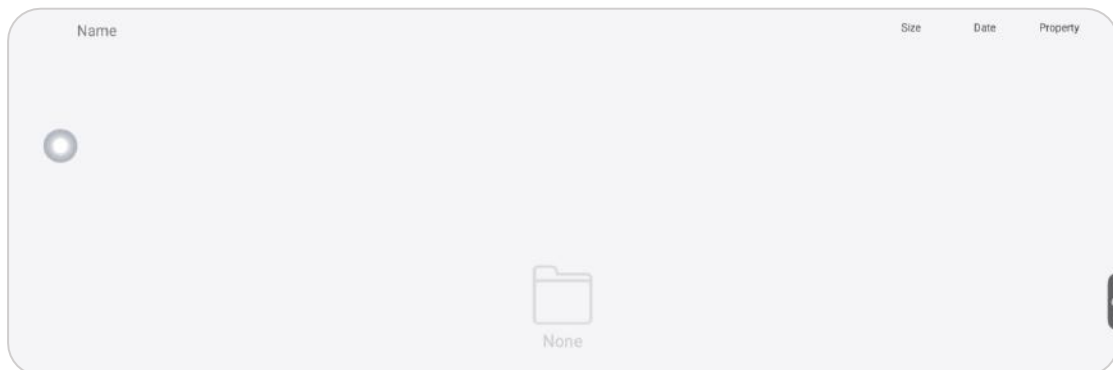
Sign in to One Drive



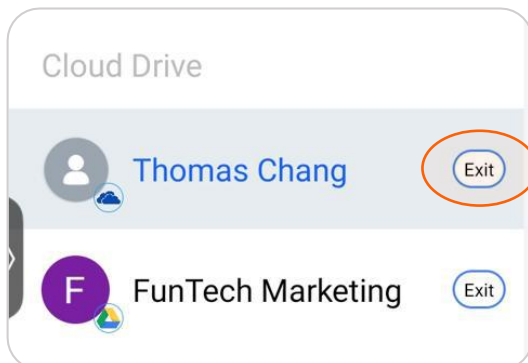
One Drive account information appears



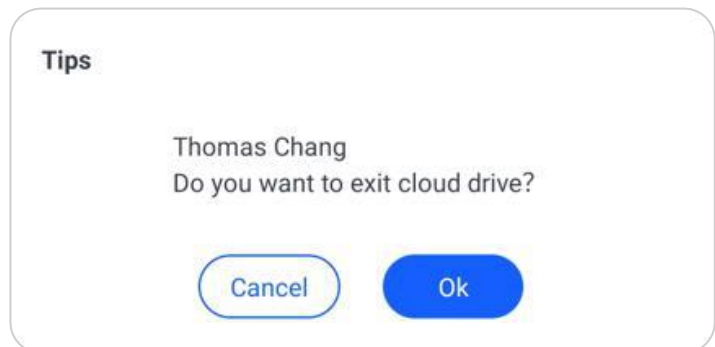
No file will appear if there is no access to the internet



Sign out of One Drive



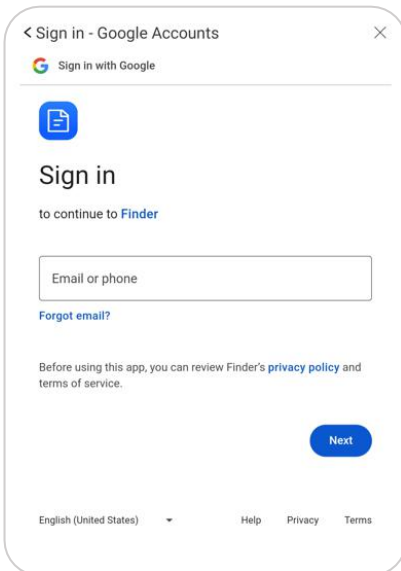
Confirm to sign out



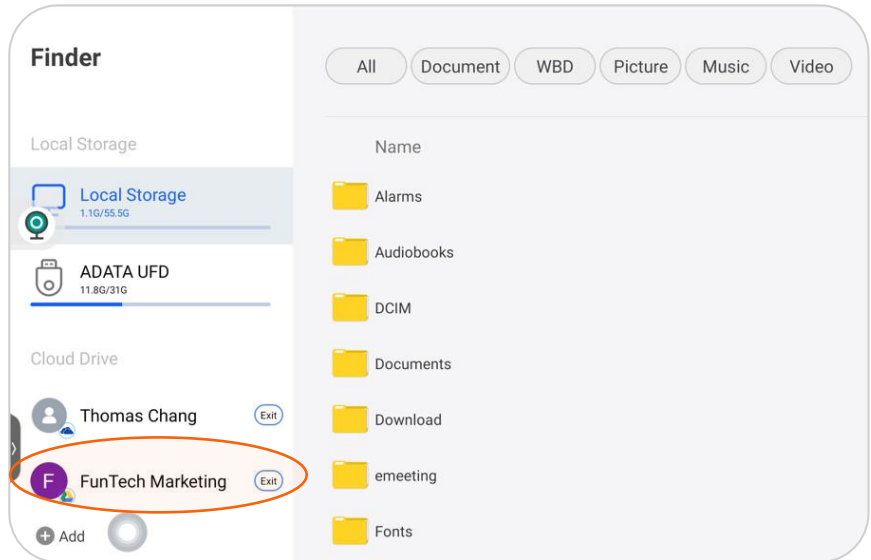
9.3.3. Google Drive

Users may set up the connection to a Google Drive.

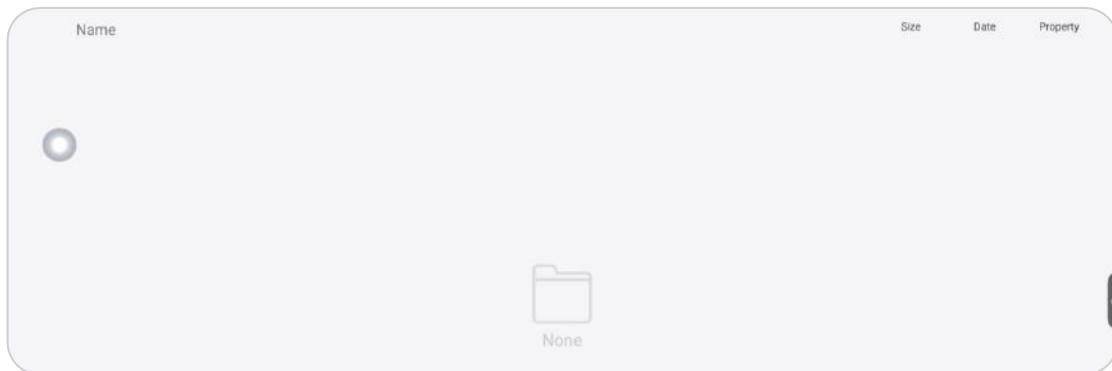
Sign in to Google Drive



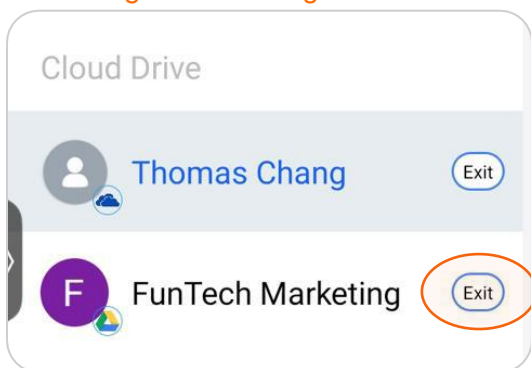
Google Drive account information appears



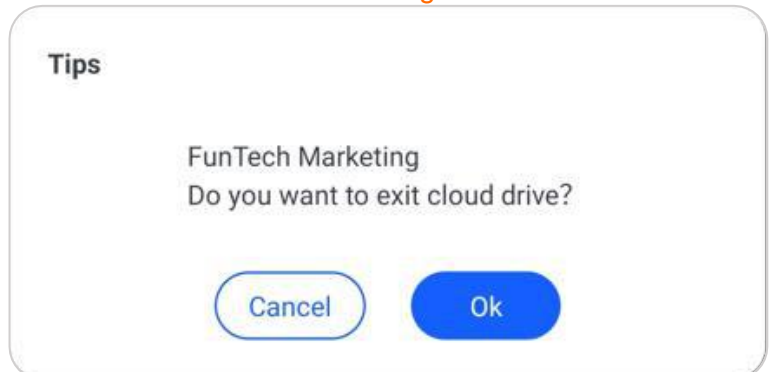
No file will appear if there is no access to the internet



Sign out of Google Drive



Confirm to sign out



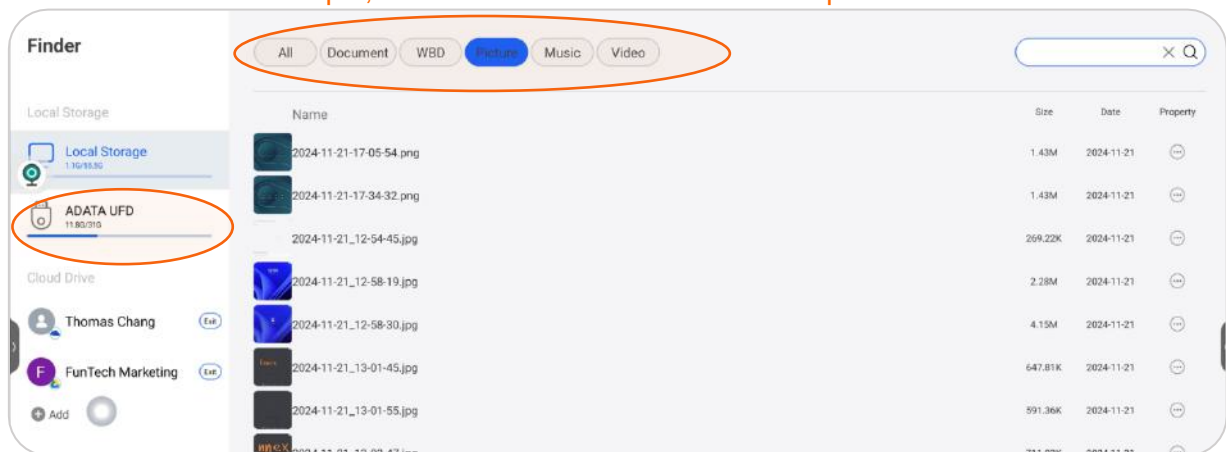
9.4. Quick Filter by File Type

Users may search the local storage using the quick filter. These filters only apply to files in the local storage and connected USB drive only. Select which drive do these filters apply to then select the file type.

****IMPORTANT:** These filters do not apply to files on the Cloud Drive.

****Note:** Filters type explained as below. All – all files type. Document – office files such as Words, PowerPoint, Excel, and PDF. WBD – Whiteboard file created by the CM Whiteboard. Picture – Images files such as JPG and PNG. Music – Audio file such as m4a.

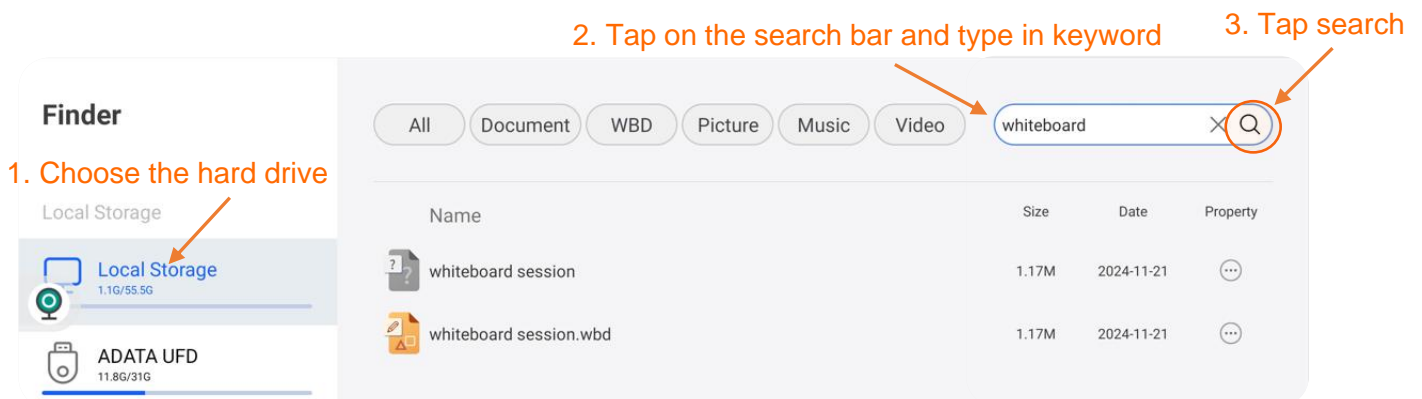
In this example, external USB is selected and with picture filter selected



Video – video file such as Mov, mp4

9.5. Search Bar

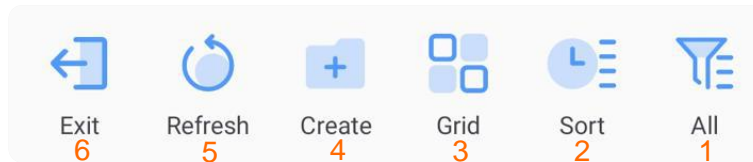
Users may use the search bar to search by file name. Tap the search icon to initialize the search and files name that matches the search



will appear.

9.6. File Action Bar

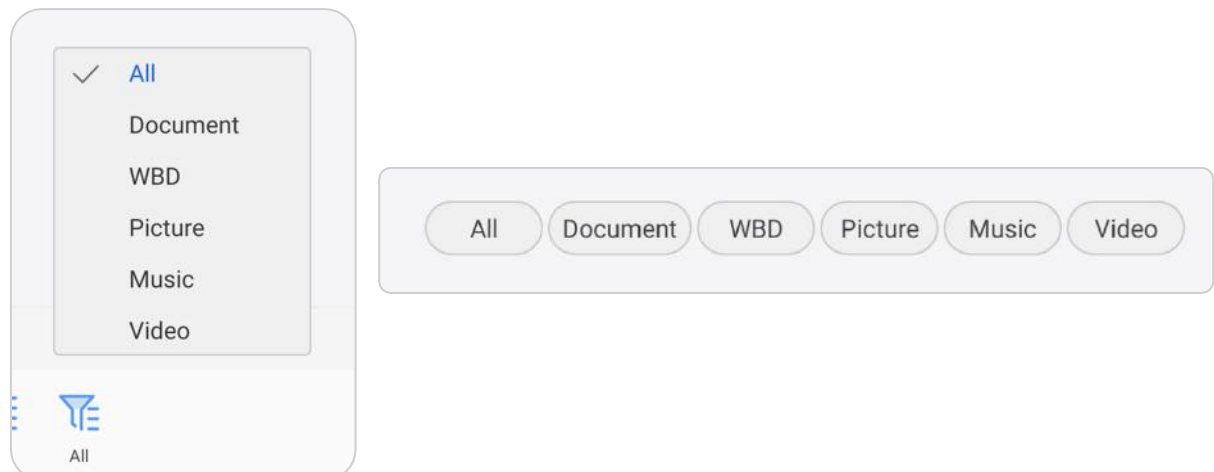
Users may use these actions for more efficient file management.



9.6.1. Filter

Users may use filters by file type to find files. These are the same as the quick filter by file type.

****IMPORTANT:** These filters do not apply to files on the Cloud Drive.

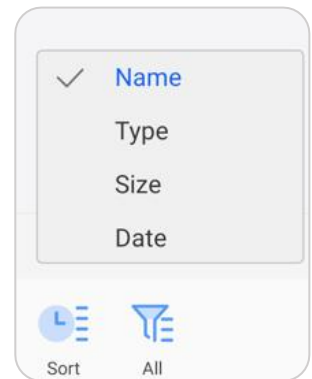


****Note:** Filters type explained as below. **All** – all files type. **Document** – office files such as Words, PowerPoint, Excel, and PDF. **WBD** – Whiteboard file created by the CM Whiteboard. **Picture** – Images files such as JPG and PNG. **Music** – Audio file such as m4a. **Video** – video file such as Mov, mp4

9.6.2. Sort

Users may sort the files by name, type, size, and date.

- Name – sort from A to Z.
- Type – Sort by file type.
- Size – Sort from small size to big size.
- Date – Sort from new date to old date.

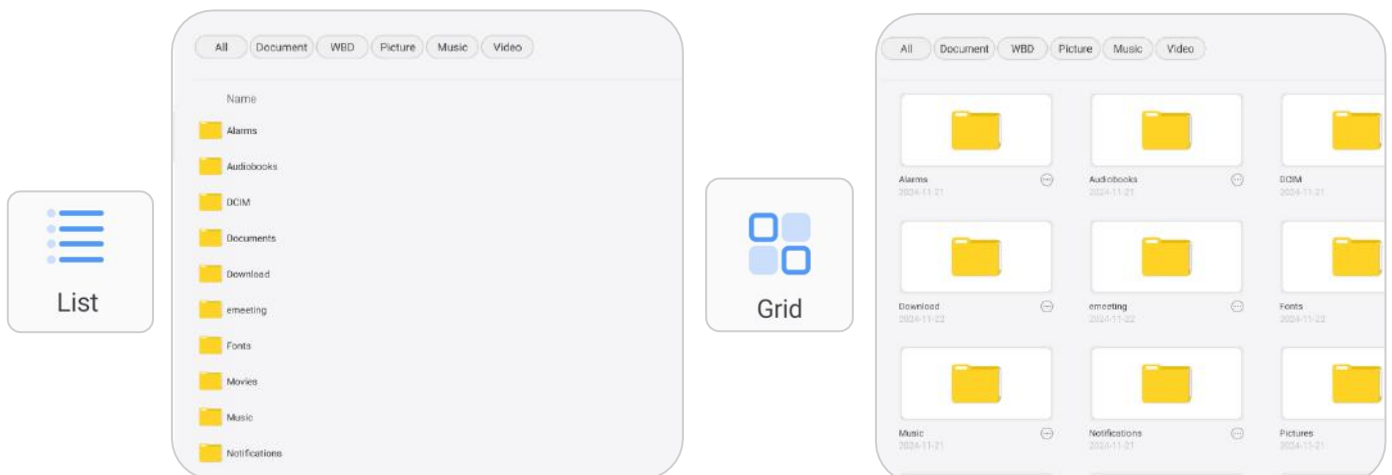


9.6.3. List view or Grid view

Users may change view from list to grid. Grid view allows users to preview the files through thumbnail images.

List view result

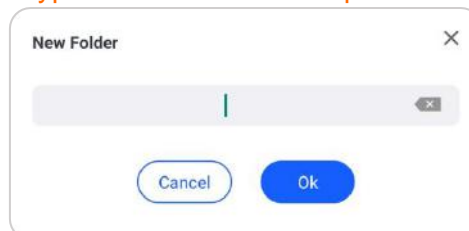
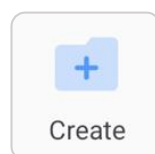
Grid view result



9.6.4. Create folder

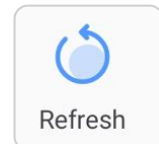
Users may create new folders.

Type in folder name and press OK



9.6.5. Refresh

Users may tap refresh to see the latest changes.



9.6.6. Exit

Users may click exit to return to the previously opened app.



9.7. Select, copy, and paste

Users may select one or multiple files for more actions.

9.7.1. Long press a file to trigger select mode

To trigger select mode, long press on any file. After a file is selected, another action bar will appear.

****IMPORTANT:** While in select mode, Users may not tap a folder or file to access it.

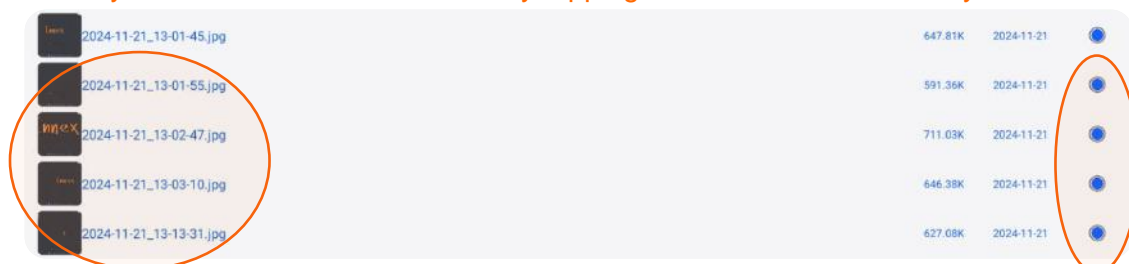
1. Long press a file to trigger select mode

2. A file is selected

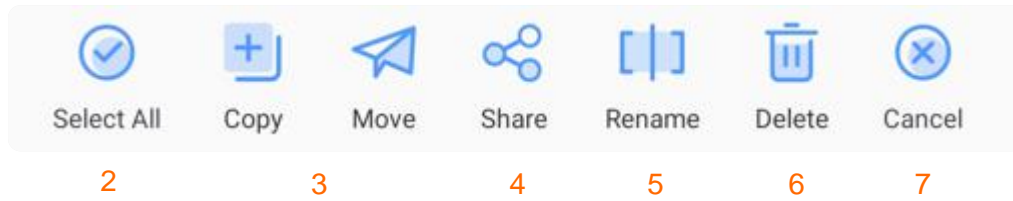


3. Another action bar appears

Users may continue to select other files by tapping on the file name and they will be selected

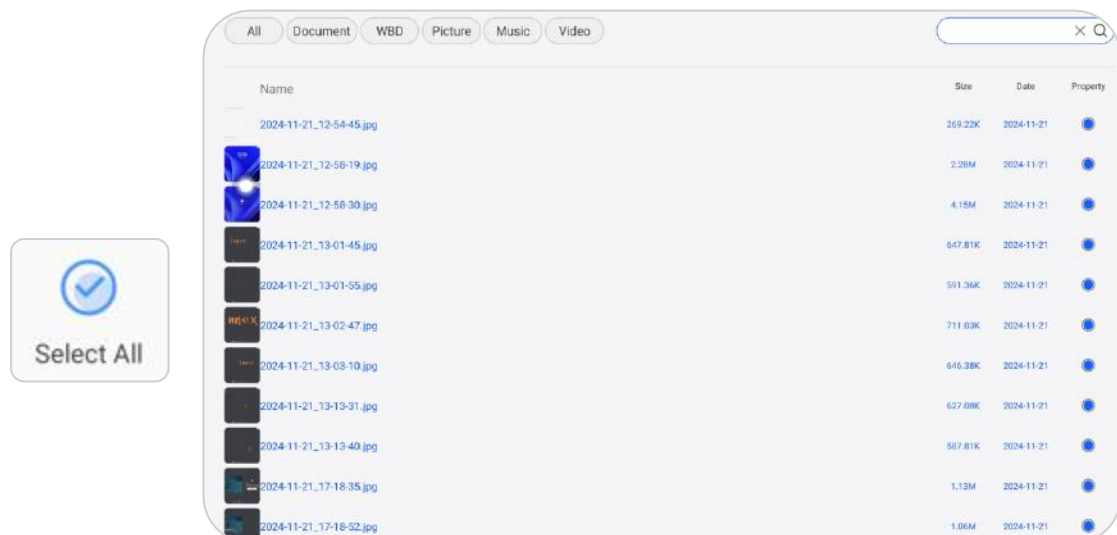


Action bar appears while in select mode



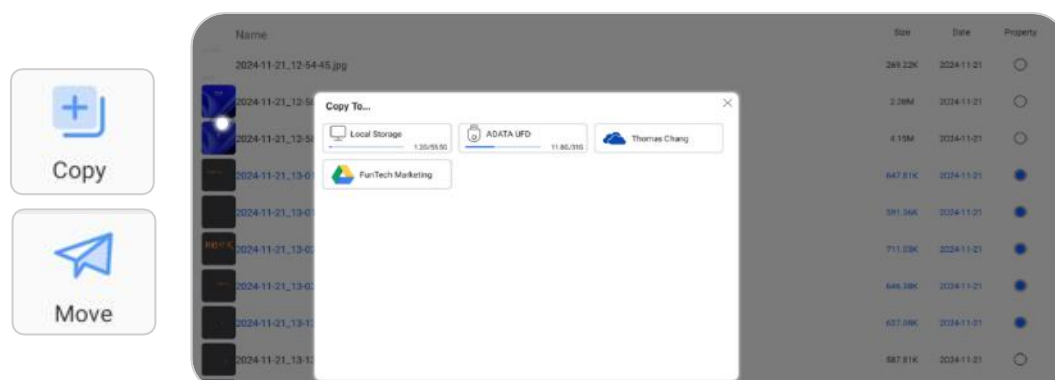
9.7.2. Select All

Users may select all available files under current conditions. The files can be within the same folder, or within the filtered or searched result.



9.7.3. Copy Or Move

Users may copy or move the selected files to any other location of the local hard drive, USB drive, or cloud drives.

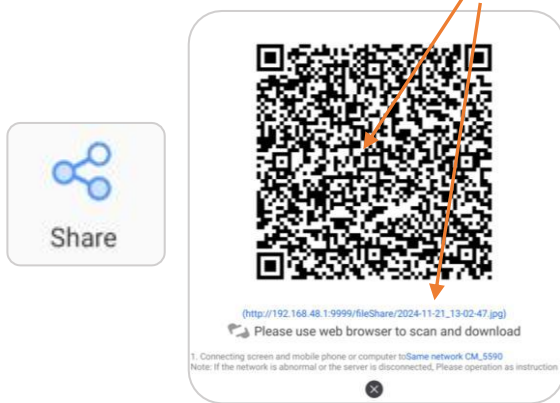


9.7.4. Share

Users may share a single file by Qrcode or a URL link. Downloading device must download using a browser. (Chrome, Edge or Safari)

****IMPORTANT:** The downloading devices must be connected to the hotspot of the CM to download the file. Only ONE file can be selected to share, if multiple files are selected the shared icon will disappear.

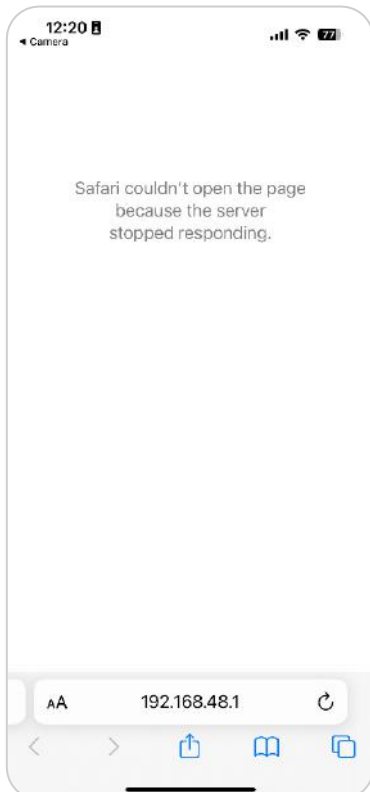
QR code to scan or type the URL Link



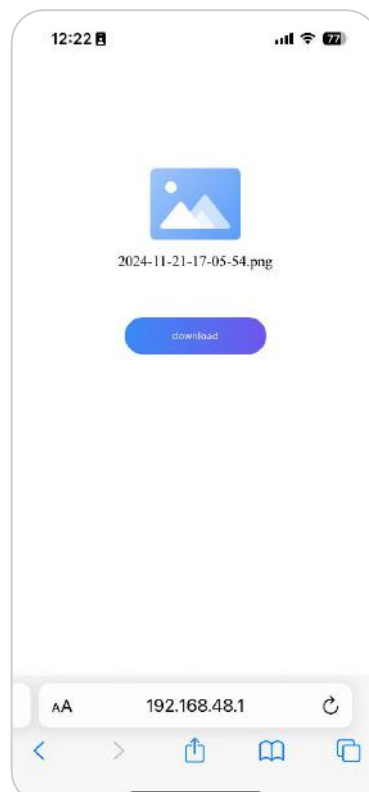
Download file through the browser



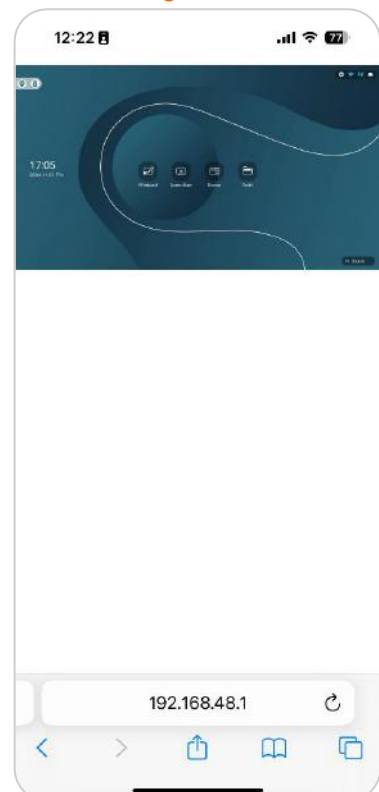
NOT connected to the hotspot of CM55



Connected to the hotspot of CM55



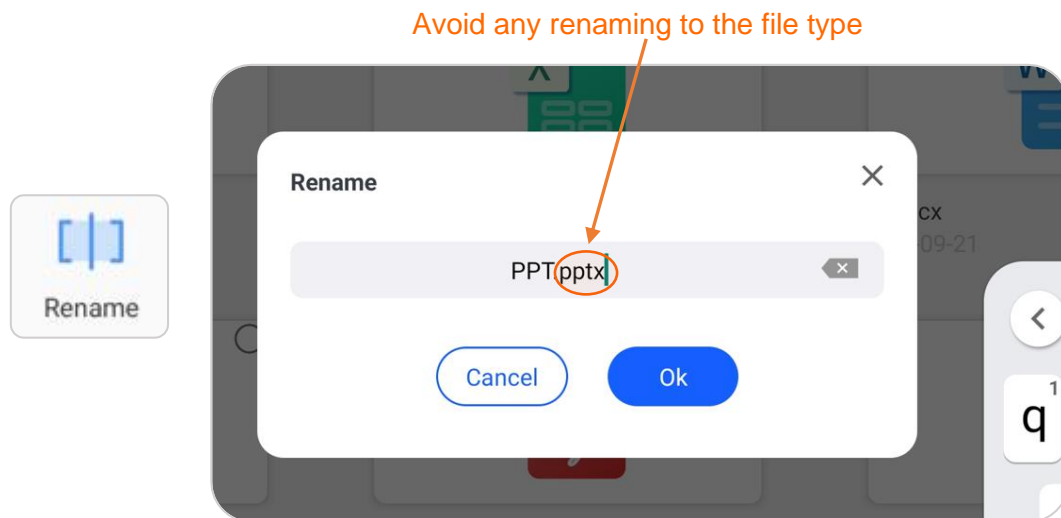
Download or view the Image in browser



9.7.5. Rename

Users may rename a file or folder.

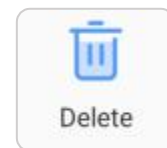
****IMPORTANT:** Be careful not to rename the file type which is after the period. Otherwise, the system will not be able to recognize the file type. For example, pptx stands for a Power Point file, or docx stands for a Word file.



9.7.6. Delete

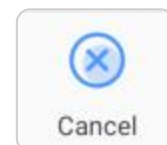
Users may delete any or multiple selected files.

****IMPORTANT:** Once deleted, there is no way to retrieve the file.



9.7.7. Cancel

Users may cancel to exit the select mode.



9.7.8. Summary of Default Files Folders

Annotation images: local Storage > emeeting > wb-anno

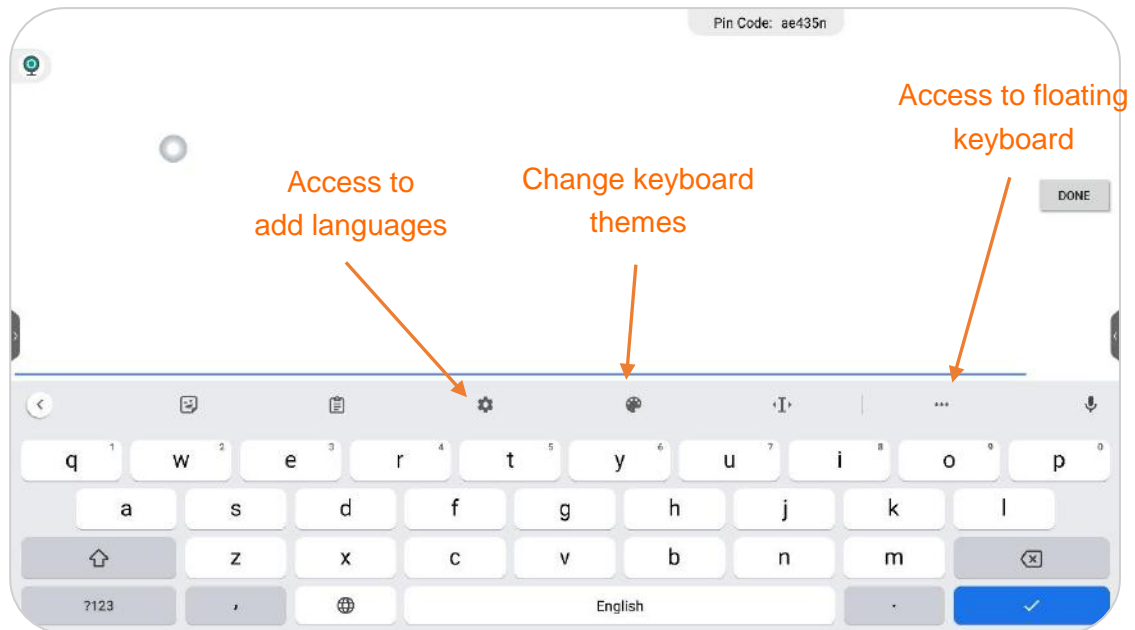
Screenshot images: Local Storage > emeeting > screenshot

Whiteboard related files & images: Local Storage > emeeting > wb-broad

10. Keyboard Interface

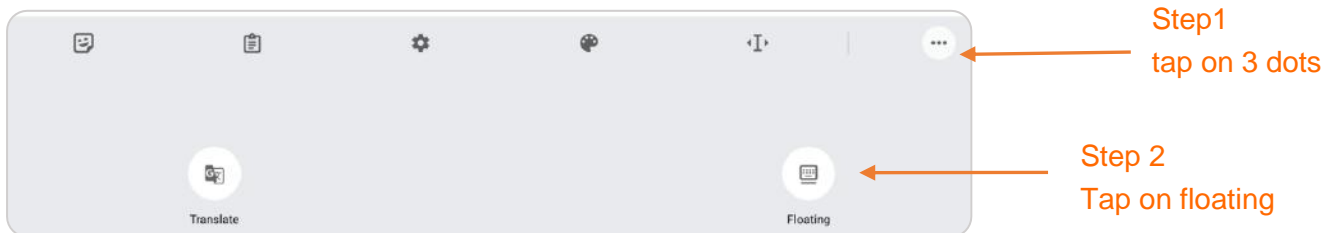
Users may add new language and change from static keyboard to floating keyboard through the keyboard interface.

**Note: Only the most useful features are going to be highlighted below.



10.1. Change to floating keyboard

Users may change the keyboard style from static to floating.



Static keyboards take up full screen (Default)



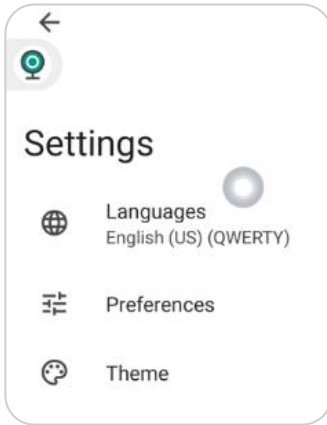
Floating keyboard shows more background



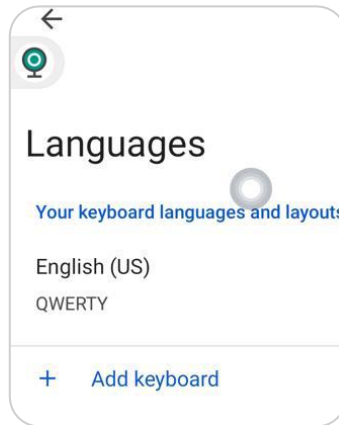
10.2. Add new input language

Users may add new language by tapping the setting icon.

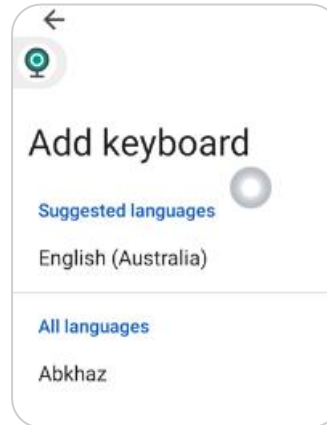
Enter setting and select Languages



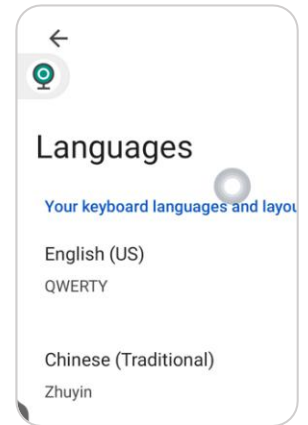
Add keyboard



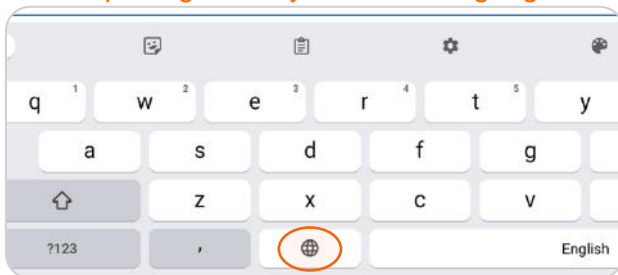
Select Language



Keyboards options appears



Tap the globe key to switch language



New keyboards layout appears

