

# User Manual

# **IFPD** (Interactive Flat Panel Display)



- 
- All the contents in this manual are subject to change without notification.

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## 1. Important safety instructions

icon	Name	Meaning
	Warning	In case of electric shock, serious injury or death
	Caution	Minor injury or damage may occur

*Please read this manual carefully before operating the product.*

### Caution :

The product may differ depending on the model, and specifications are subject to change without notice for improvement.

### Warning :

- To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.
- To prevent injury, this product must be securely attached to the floor/wall in accordance with the installation instructions.
- To reduce the risk of electric shock, do not remove the back cover.
- Refer to qualified service personnel if needed.

### Caution:

Any unauthorized damage to the inner side of the monitor will void the warranty. The manufacturer does not warrant against damage caused by improper maintenance and repair work by others.

## Important safeguards for customers and their products :

Product has been tested to be safe in manufactured. However, improper use may result in electric shock or fire hazard. In order to implement the safety device built into the new product and to prevent accidents, careful read the user's manual and install it. Following safety precautions and keep it for future use.

### Notice :

Display is not certified for use in patient diagnostics. It is the responsibility of the hospital or clinic to be used for the right diagnosis products. DICOM is a registered trademark of NEMA for standard publications Related to digital communication of medical information. The "IPS" mark/trademark and technology related patents are owned by their respective owners.

## **1.1 Safety precautions**

### **1.1.1 Read the instruction manual carefully**

### **1.1.2 Follow the instruction manual**

- All operations must follow the instructions in the instruction manual.

### **1.1.3 Maintenance of user manual**

- The instruction manual should be kept for future reference.

### **1.1.4 Warning**

- All warnings in the product and user manual instructions must be followed.

### **1.1.5 Cleaning**

- Disconnect power before cleaning.
- Do not use abrasives. Do not use wet towels.
- ① Do not use a sharp object except pens included as it may damage the screen
  - It may cause product malfunction.
- ② Do not use chemicals such as wax, benzene, alcohol, thinner, pesticides and lubricants.
  - It may cause product malfunction.
- ③ When wiping the screen with water, do not spray it directly, but use a soft cloth to moisten it before wiping or cleaning the screen.
  - Water may enter the product and cause product failure.
- ④ When cleaning products with sensor filters attached to the top, bottom. Left and right sides of the screen.
  - Do not apply excessive shock or force to the sensor filter.  
If the sensor filter is damaged, it may cause product failure.
  - Do not use water, but use a soft brush to remove dust.  
If the sensor filter gets wet, it may cause product failure.

### **1.1.6 Water and moisture**

- Do not use the product near water or in a humid place.

### **1.1.7 Precautions for transporting**

- Product and cart combinations must be moved with care. If you stop quickly or apply too much force in uneven ground areas, the product and cart may turn upside down.

### **1.1.8 Ventilation**

- Do not block the ventilation.
- Follow the instruction manual

### **1.1.9 Power source**

- This product must comply with the power rating specified on the rear label.

### 1.1.10 Grounding the power cord

- This product is equipped with a 3-wire grounding type cord for safety. Do not remove the grounding terminal.

### 1.1.11 Protecting the power cord

- Make sure the power is properly connected. Check that the plug and power cable are not twisted or pressed by other objects.

### 1.1.12 Lightning

- Unplug this product during lightning storms or when unused for long periods of time.

### 1.1.13 Grounding the product

- This product must be properly grounded to comply with the safety regulations of the country of use. If you are unsure of these regulations, please contact a qualified engineer.

### 1.1.14 Service

- Do not try to repair the product by yourself. If removing covers may expose you to hazardous voltages or other hazards. Refer all servicing to qualified service technicians.
- If the product do not work properly, turn off the power and contact your dealer.

### 1.1.15 Services caused damage to property

- Disconnect this product from the power supply and contact service representative under the following situations.

- ① The power cord or plug is damaged.
- ② The protective glass is damaged.
- ③ There is water ingress between the protective glass and the LCD screen.
- ④ If the product has been dropped or the case has been damaged.
- ⑤ Product's performance shows a noticeable change.

### 1.1.16 Safety checks

- Upon completion of repair or service of this product, inquires the service technician to check that the product is operating normally, for damage and scratch to the front side, and to perform a safety check.

### 1.1.17 Installation

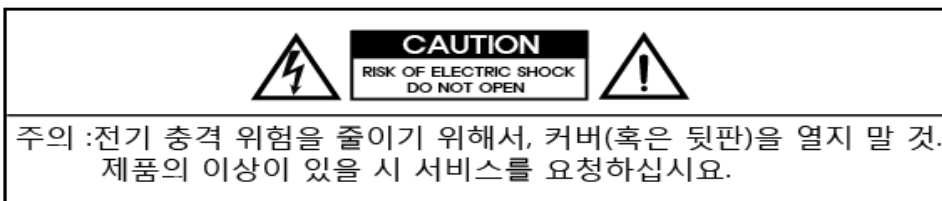
- It is recommended to mount this product on the wall.

### 1.1.18 Power

- This product operates on AC power and must use the voltage indicated on the label. The power cord must be always grounded.

### 1.1.19 Location

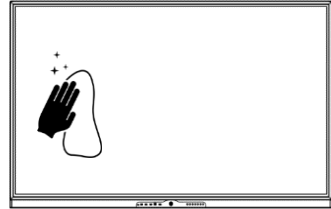
- Do not install in unstable place, and secure enough space for safe use.



## 1.2 Maintenance

### 1.2.1 Exterior and screen care

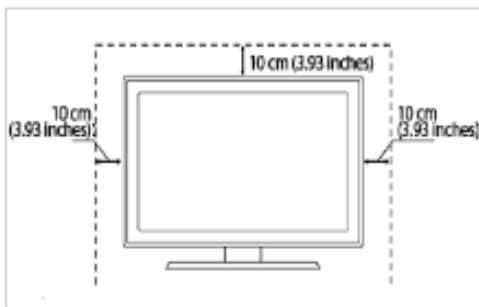
- ① Wipe with a soft, dry cloth.
  - ② Do not wipe with flammable materials such as benzene, thinner, or wet rags.  
This will cause a failure.
  - ③ Do not scratch the screen with your fingernails or sharp objects.  
This can leave scratches or damage the product.
  - ④ Do not spray water directly on each part of the product body to clean it.  
Water in the product can cause fire, electric shock, and failure.
  - ⑤ High-gloss models, due to the nature of the product, require an ultrasonic humidifier.  
The product might have white stains.
- ▷ Appearance and color may vary depending on the model.



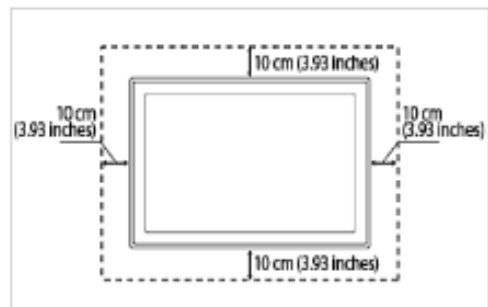
### 1.2.2 Installation

- ① Leave some space around the product for good ventilation.  
Due to the increased temperature inside the product, It can cause fire and product failure.
  - ② Install it so that at least the space shown in the figure is maintained.
- ▷ Appearance may vary depending on the product.

When installing with the stand



When mounting on a wall (Wall-mount)



### 1.2.3 Image sticking

- Avoid displaying a fixed image on the screen for a long period of time to prevent image sticking.  
Recommend to power off or set the power saving mode when not in use for a long time.

### 1.2.4 Condensation and humidity for usage

- When using the product for the first time or after a long period of inactivity, condensation may form on the inner glass surface of the screen due to the difference between the external and internal temperatures.

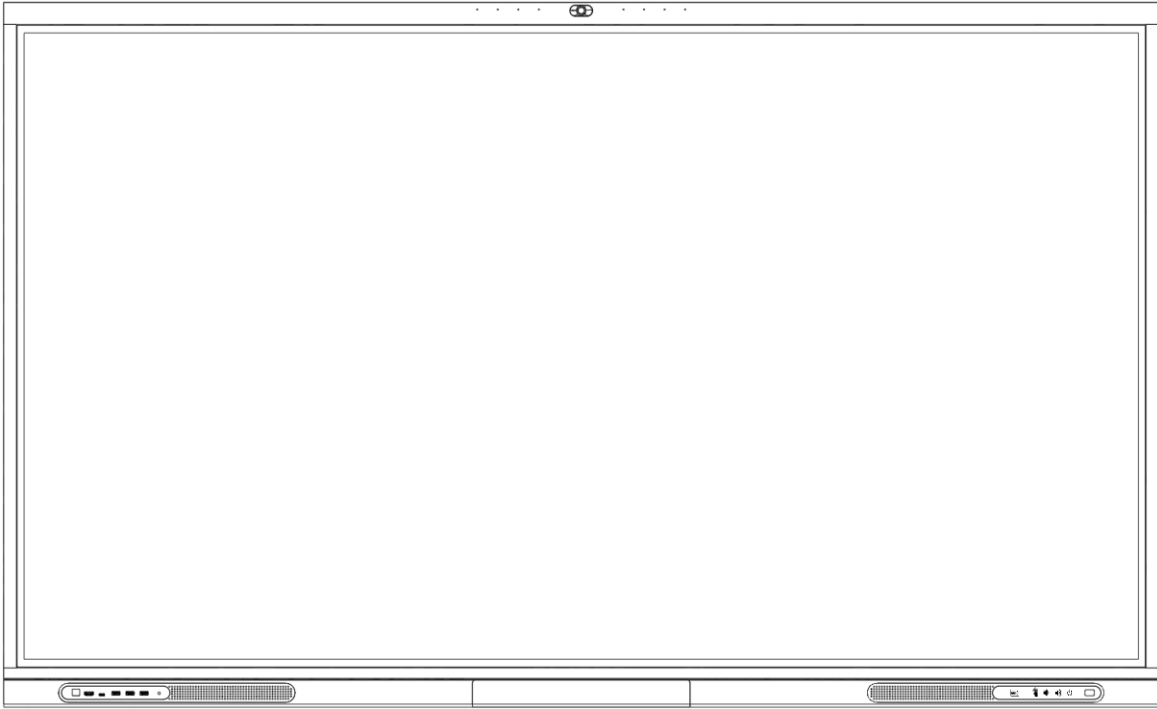
This is a temporary phenomenon caused by the temperature difference between external and internal of the product, which is not a malfunction.








If the symptom occurs, it disappears after a certain time (about 1 ~ 3 hours) after turning on the product.

# 2. Introduction

## 2.1 Components

- ① Check components for the following items.
- ② If there are any missing accessories, contact the local dealer where you purchased from.
- ③ The illustrations in this manual may differ from the actual product and components.

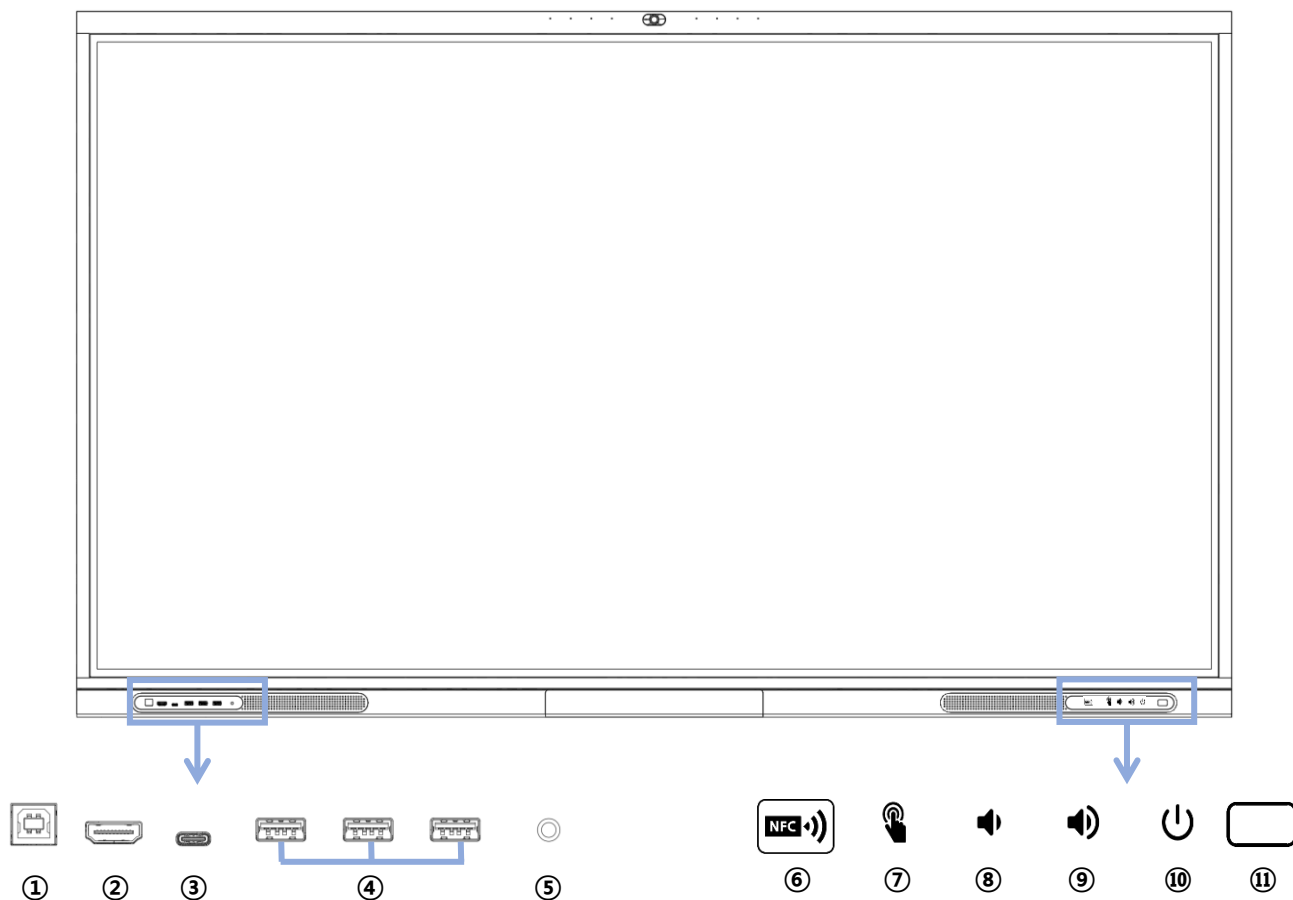


Accessories	 <b>POWER CORD</b>	 <b>HDMI CABLE</b>	 <b>TOUCH CABLE</b>
	 <b>REMOTE CONTROLLER</b>	 <b>PEN</b>	 <b>NFC CARD</b>
		 <b>WALL MOUNT BRACKET(Option)</b>	



### 3. Product description

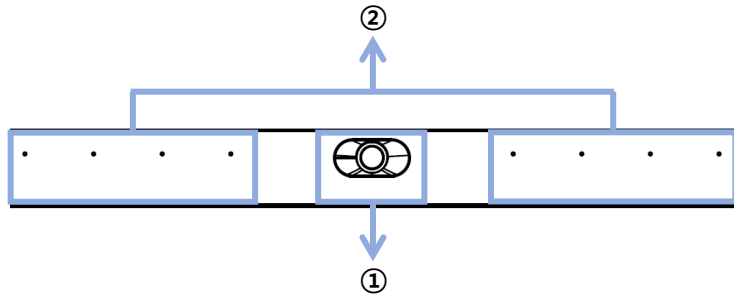
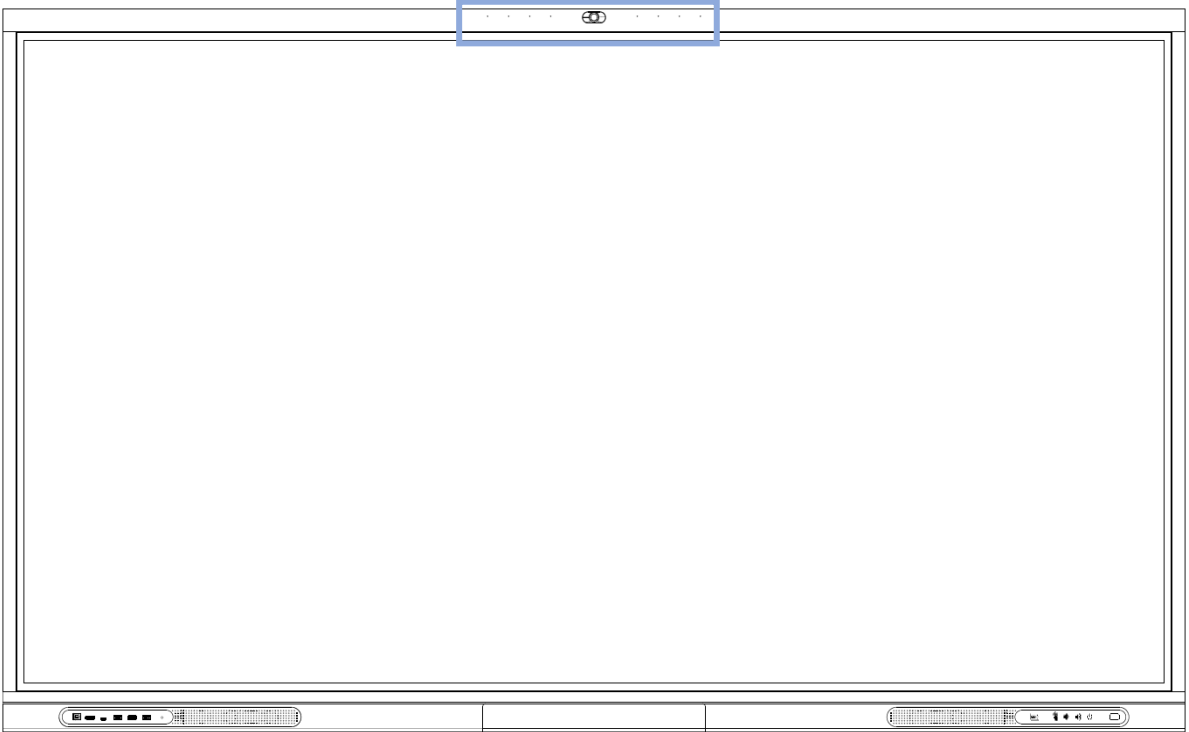
#### 3.1 Front view



①	FRONT TOUCH (USB-B Type)
②	FRONT HDMI
③	USB C (Video And Audio Support)
④	USB 3.0
⑤	LIGHT SENSOR
⑥	NFC POWER ON / OFF (CARD & APPLICATION)
⑦	TOUCH ON / OFF SWITCH
⑧	VOLUME – (DOWN)
⑨	VOLUME + (UP)
⑩	POWER ON / OFF SWITCH, POWER INDICATOR (ON : BLUE, OFF : RED)
⑪	REMOTE CONTROL RECEIVER

### 3. Product description

#### 3.2 Front camera & microphone (Option)



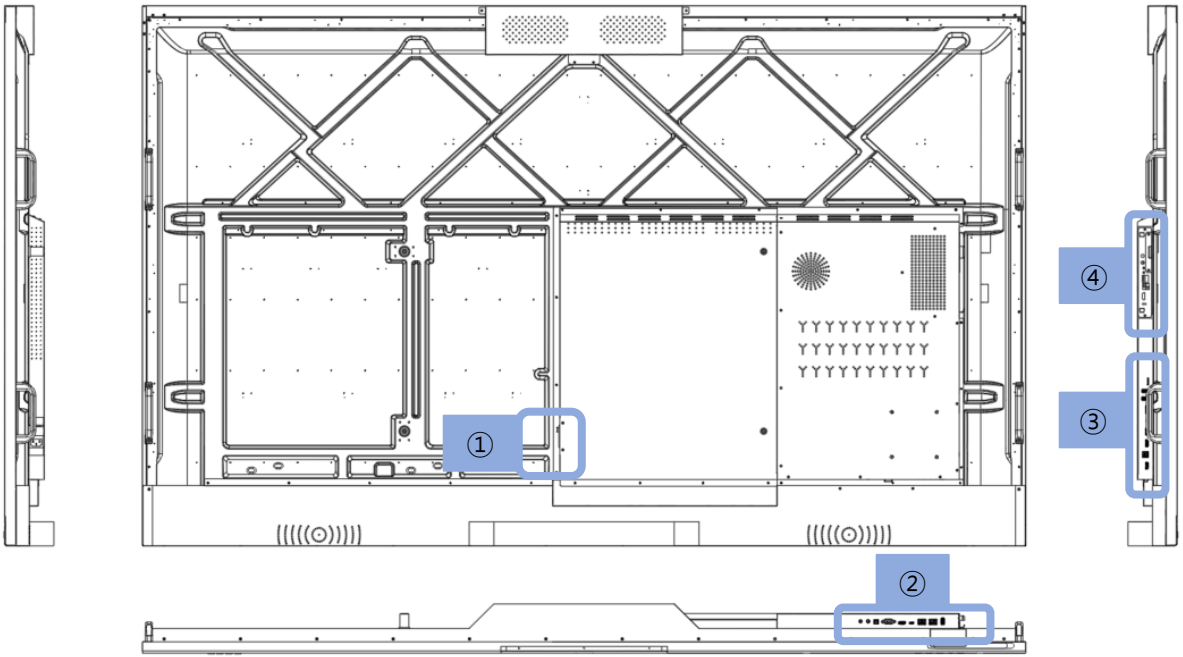
①	Camera 4K Resolution / 120° Field Of View / WDR / Auto-Framing / Noise Reduction
②	8-Channel Array Microphones / Echo Cancellation / Noise Reduction / Voice Location Tracking

< Notification >

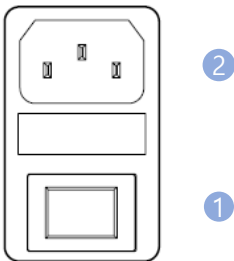
- The USB cable(3m) provided for front USB for Touch Output. Due to limitations in the USB standard, we recommend that the length of USB cables are less than 3m (10ft) to ensure optimum performance.

### 3. Product description

#### 3.3 Rear view

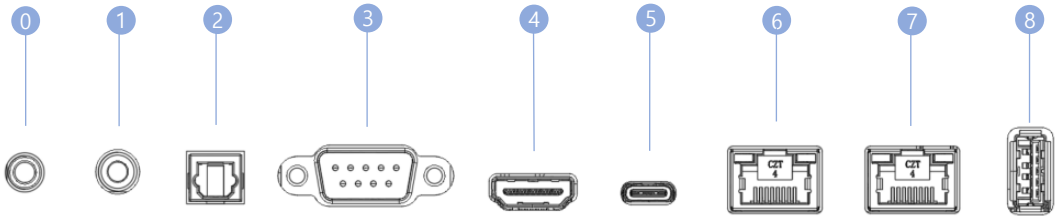


#### ① Power control and AC input



1	Power switch (I: On, O: Off)
2	AC IN 100V~240V 50/60Hz

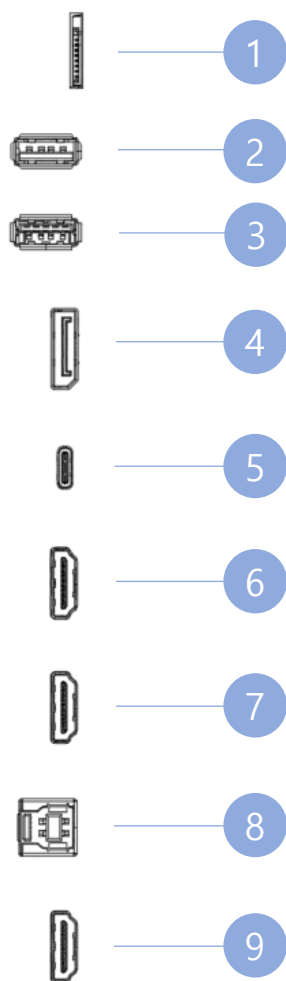
#### ② Rear panel connectors



0	MIC input
1	LINE OUT
2	S/PDIF Output
3	RS-232C
4	HDMI Output

5	USB C Output
6	LAN Input/Output 1
7	LAN Input/Output 2
8	USB 3.0

### ③ Rear panel connectors



0	USB 2.0 (CAM) (Option)
1	SD CARD
2	USB 2.0
3	USB 3.0
4	DISPLAY PORT Input

5	USB C input
6	HDMI Input 3
7	HDMI Input 2
8	USB Touch (B-Type)
9	HDMI Input 1

### ④ Installing an OPS

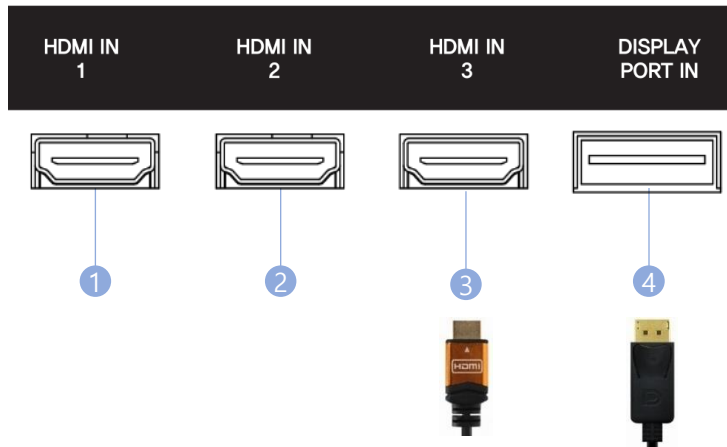
In (4), there is a slot for an OPS. Install and use it when using an OPS. OPS sold separately.

### 3. Product description

#### 3.4 Connector

##### 3.4.1 Connector of HDMI/Display port

- In order to transmit digital video and audio signals from an external device to the screen, connect the HDMI/Display Port cables as shown in the following illustration.



1	HDMI 1 input – Pc / Laptop connect to the HDMI cable
2	HDMI 2 input – Pc / Laptop connect to the HDMI cable
3	HDMI 3 input – Pc / Laptop connect to the HDMI cable
4	Display port input – Pc / Laptop connect to the Display port cable

##### 3.4.2 OPS connection

- Do not connect USB for touch cable to the port. Touch cable is already connected by internal OPS docking board.

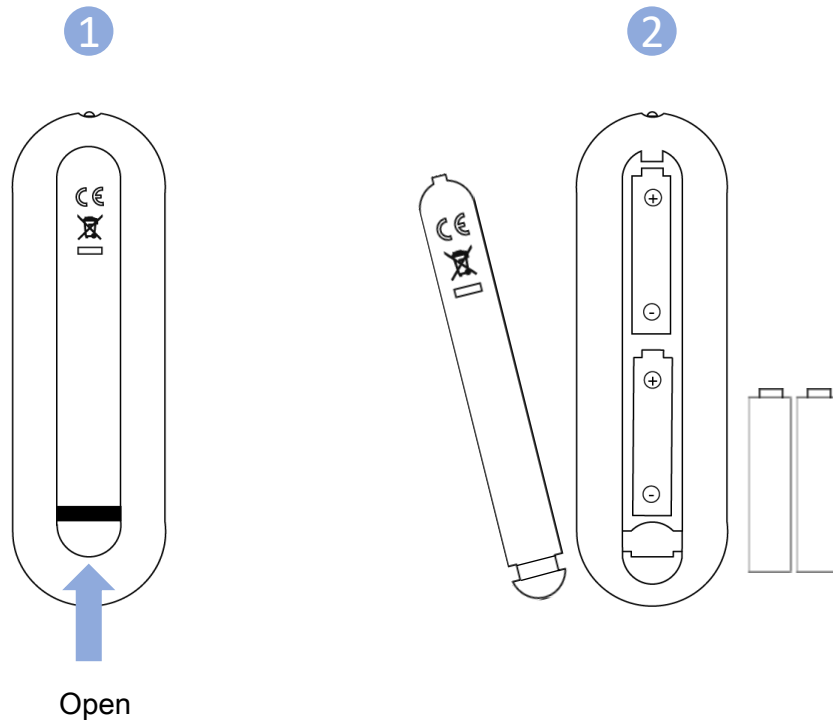
## 4. Remote controller



Key name	Description
	Power On / Off
	Shows the current external input
	Activates home screen
	Activates annotation Screen
	Touch On / Off
	TV Source select (not supported)
	OPS PC select
	Front HDMI→HDMI1→HDMI2→HDMI3
	Display port→TYPE C type port
	VGA→AV
	Go to previous media
	Start or pause media
	Stop media
	Go to the next media
	Display main OSD menu
	Select external input menu
	Built-in camera and microphone function adjustment menu (This only works while the camera is in motion).
	OSD Menu Exit and Back
	Select menu
	Adjust or select menu
	Volume down
	Mute
	Volume up
	Screen mode (Standard/Soft/Bright/User)
	Sound mode (Standard/Sport/User)
	Adjust screen brightness (3 levels)
	Freeze current display
	Run E-Share app
	Eye protection mode On / Off
	TV Channel search (not supported)
	Check the list of TV channels (not supported)
	Add and delete TV channels (not supported)

## 4.1 Battery replacement

- Insert the battery into proper polarities
- Battery model: Alkaline Battery 1.5V(AAA)



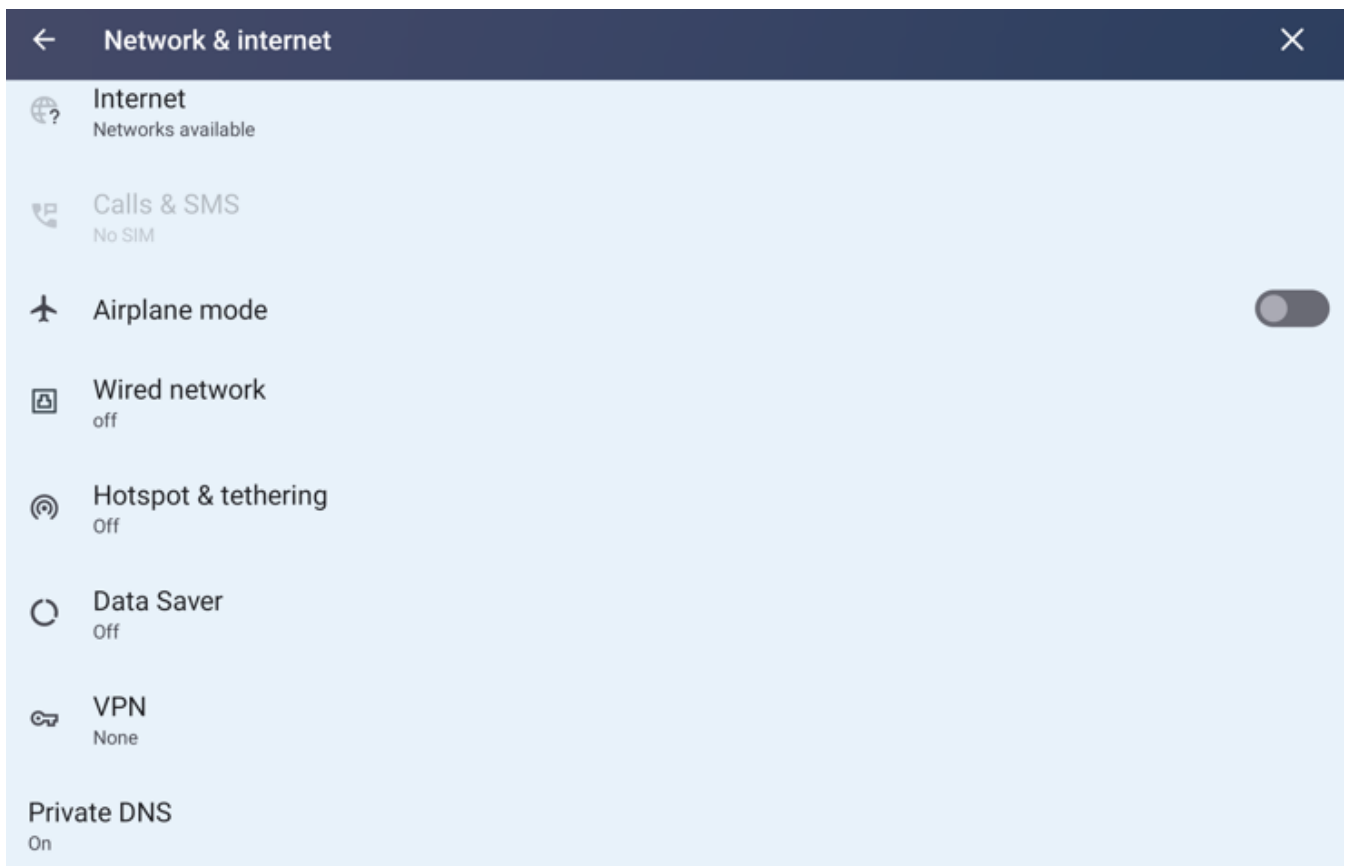
### BATTERY PRECAUTIONS

These precautions should be followed when using batteries in this device:

- The batteries may last approximately one year depending on using time of remote controller. Replace batteries when the remote controller does not working.
- Use only the size and type of batteries specified.
- Be sure to follow the correct polarity when inserting the batteries as upper image. Reversed batteries may cause damage to the device.
- Do not use different types of batteries together (e.g. Alkaline, Carbon-zinc or Rechargeable) or old batteries with new ones.
- If the device is not to be used for a long time, remove the batteries to prevent damage or injury from possible battery leakage.
- Do not try to recharge batteries not intended to be recharged. It may cause damaged to remote controller. (Follow battery manufacturer's directions.)
- Do not use damaged batteries as they can become very hot and are dangerous.
- Never expose batteries (battery pack or batteries installed) to excessive heat such as sunshine, fire or the like.

## 5. System setting

### 5.1 Network & internet



#### ❖ Wireless networks(Wi-Fi)

IFPD is basically equipped with Wi-Fi MODULE, which supports Wi-Fi 5 and has a maximum UP and DOWN speed of 866 Mbps (2.4 GHz to 5 GHz band)

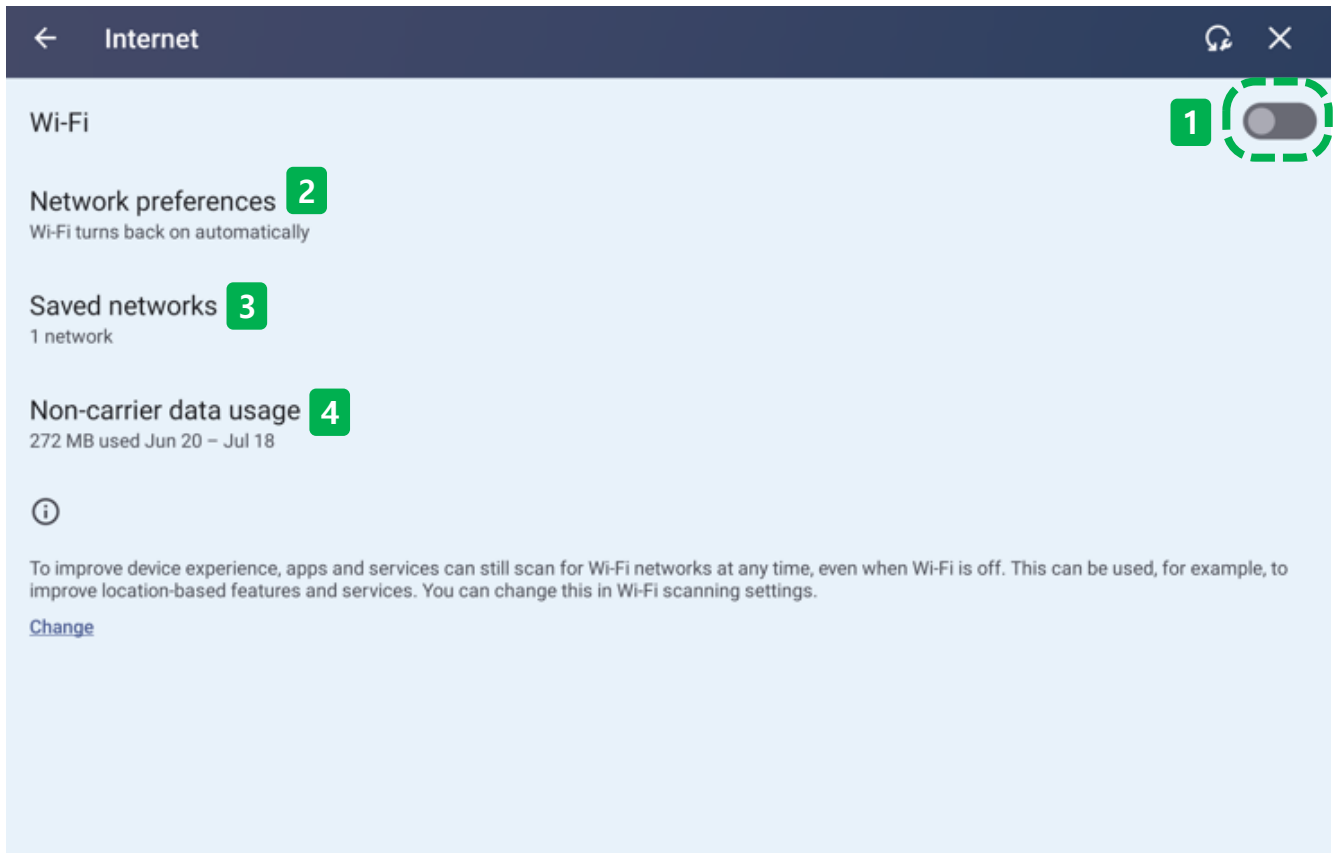
#### ❖ Wired Network (Ethernet)

IFPD has two Ethernet terminals that support only one network input and a maximum speed of 1000 Mbps.

1. One of the two Ethernet terminals has a network connection, and the other Ethernet terminal can be connected to an external PC to receive network shares.  
(The connected external PC maximum network speed is 1000 Mbps.)
2. The network is connected to one of the two Ethernet terminals, and Users can receive a network share when Users go to the mounted OPS screen.  
(The maximum network speed for the equipped OPS is 1000 Mbps.)
3. If the network is connected to one of the two Ethernet terminals, the front USB-C terminal can be shared at a maximum of 100Mbps.



## 5.1.1 Internet

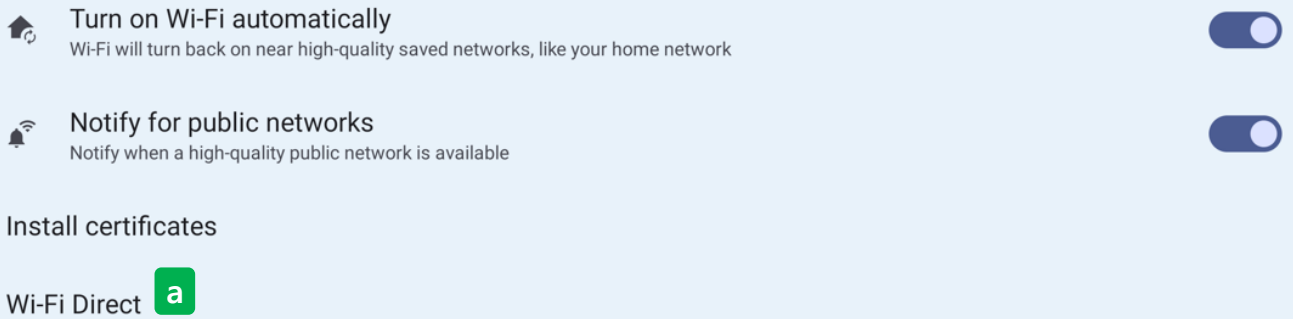


### ① Wi-Fi (wireless network)

- Press the Wi-Fi ON/OFF button to detect nearby Wi-Fi signals. (2.4GHz ~ 5GHz)



# Network preferences




Turn on Wi-Fi automatically

Wi-Fi will turn back on near high-quality saved networks, like your home network

Notify for public networks

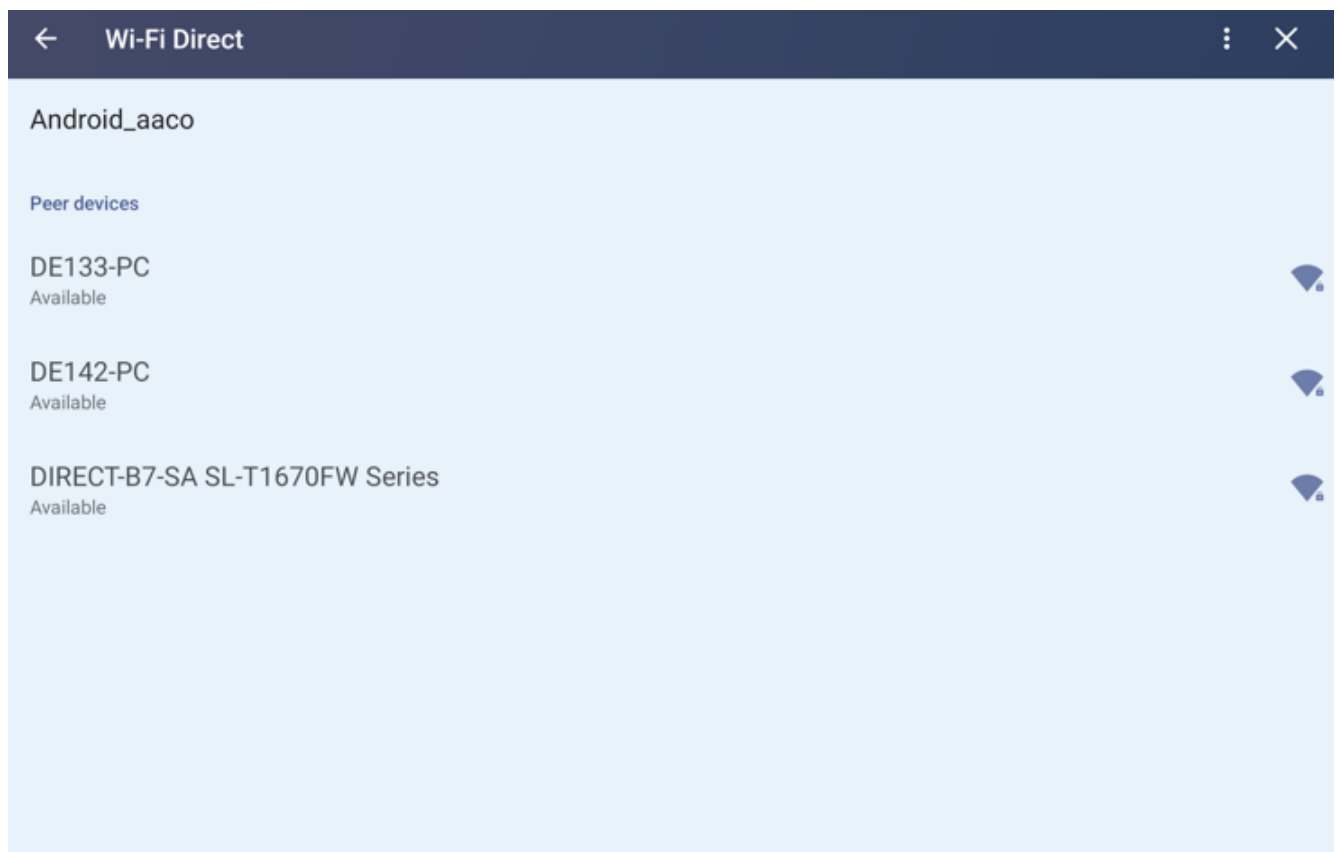
Notify when a high-quality public network is available

Install certificates

Wi-Fi Direct 

## ② Network preferences

- **Turn on Wi-Fi automatically** : Wi-Fi is re-enabled when a stored high-quality network such as a home network is nearby.
- **Notify for public networks** : A notification window appears when a high-quality public network is available.
- **Install certificates** : If the network Users are connecting to requires a certificate, install the required certificate directly.
- **Wi-Fi Direct** : Share files with devices with Wi-Fi Direct without a separate cable or network connection.



← Wi-Fi Direct

Android\_aaco

Peer devices

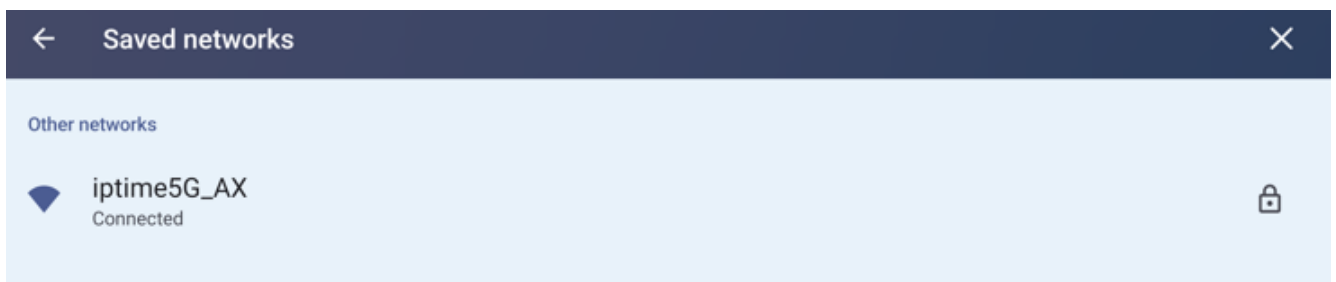
DE133-PC  
Available

DE142-PC  
Available

DIRECT-B7-SA SL-T1670FW Series  
Available

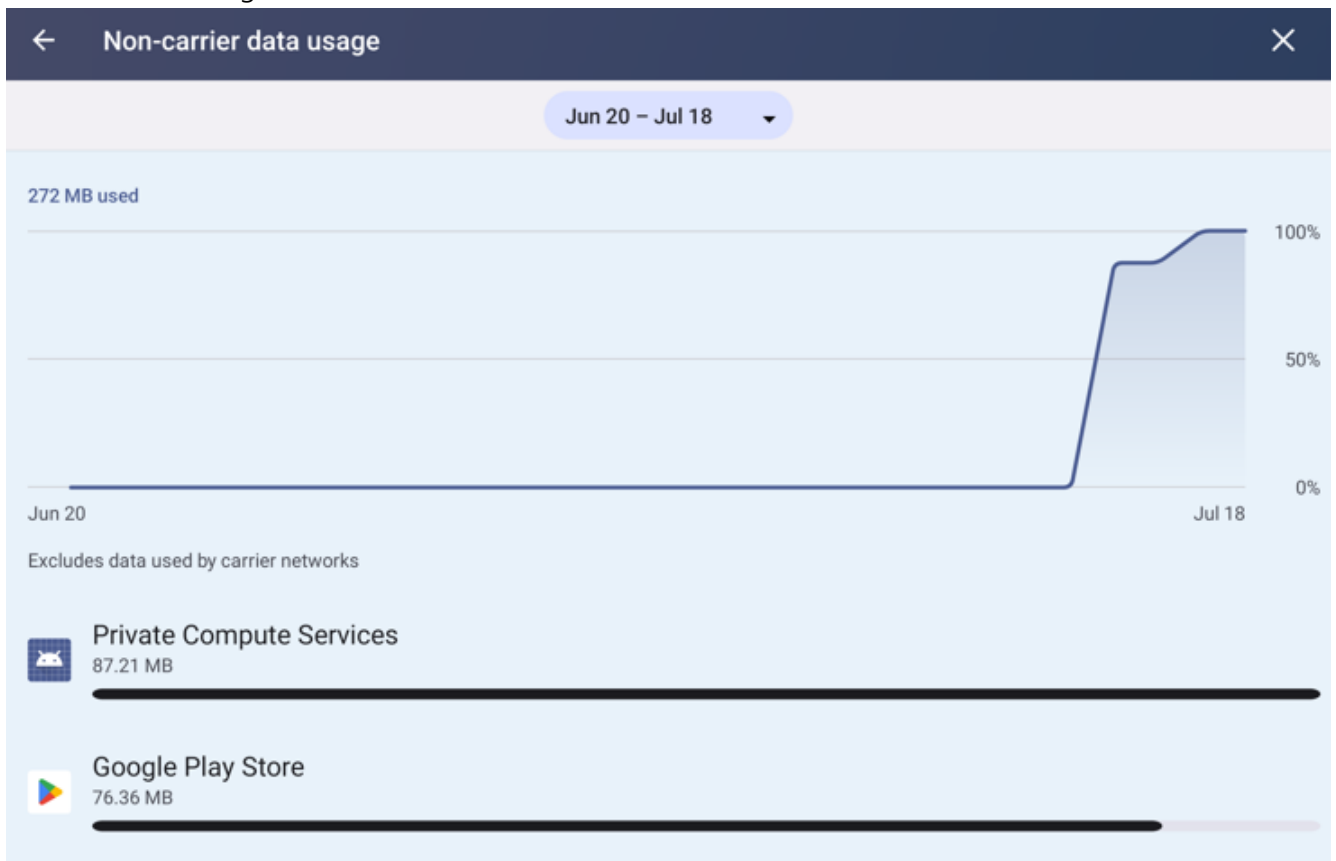
### a. Wi-Fi Direct

- **Android\_aaco** : The device name of IFPD that can be found on the external device.  
(It varies from device and IP address.)
- **peer devices** : It shows a list of peripherals that can be connected to IFPD.



### ③ Saved networks

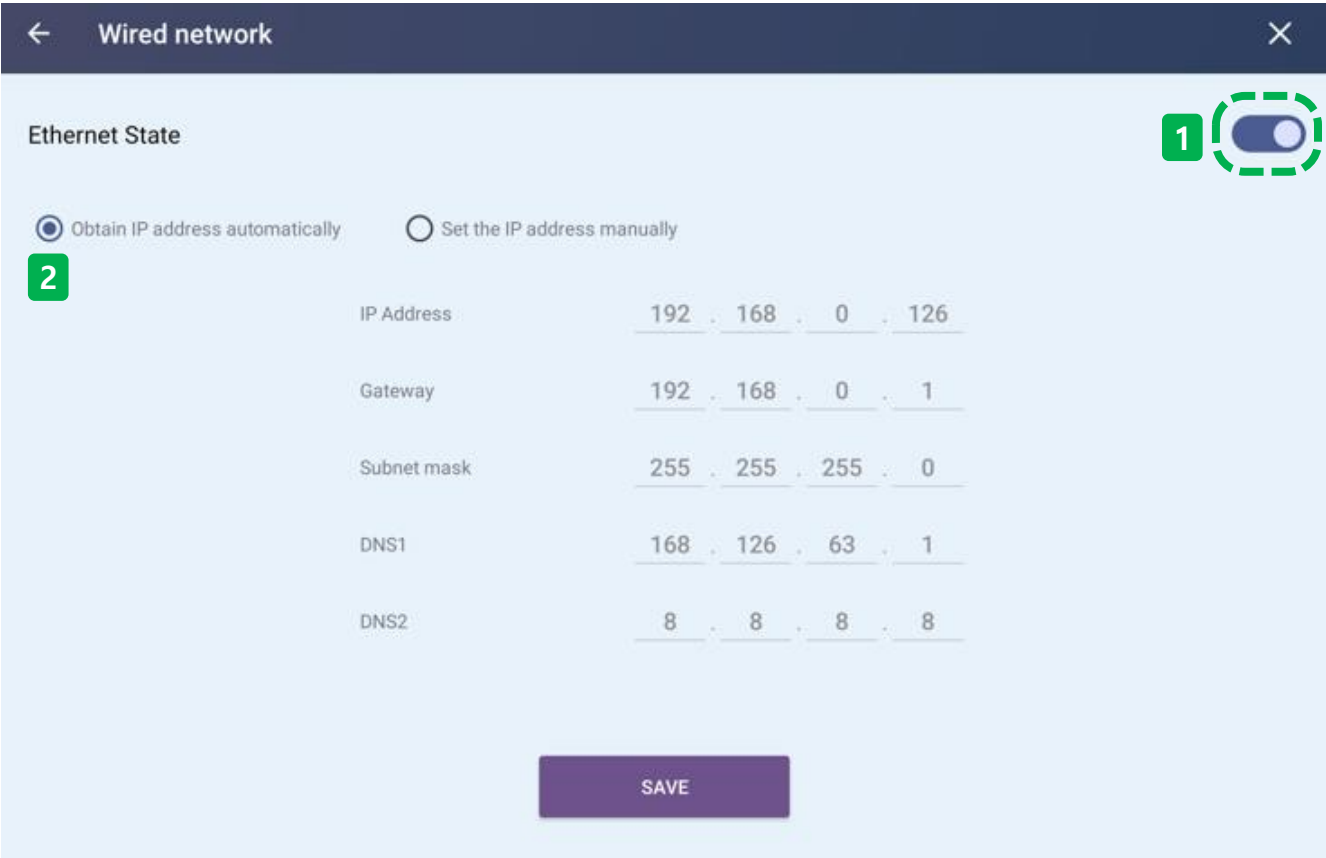
- It shows a list of Wi-Fi connected from IFPD.
- Once connected, Wi-Fi is stored in that entry and automatically connects without entering a password when reconnecting.



### ④ Non-carrier data usage

- Users can check the network data usage for each date.
- The data used through the mobile carrier network is excluded.

## 5.1.2 Wired network



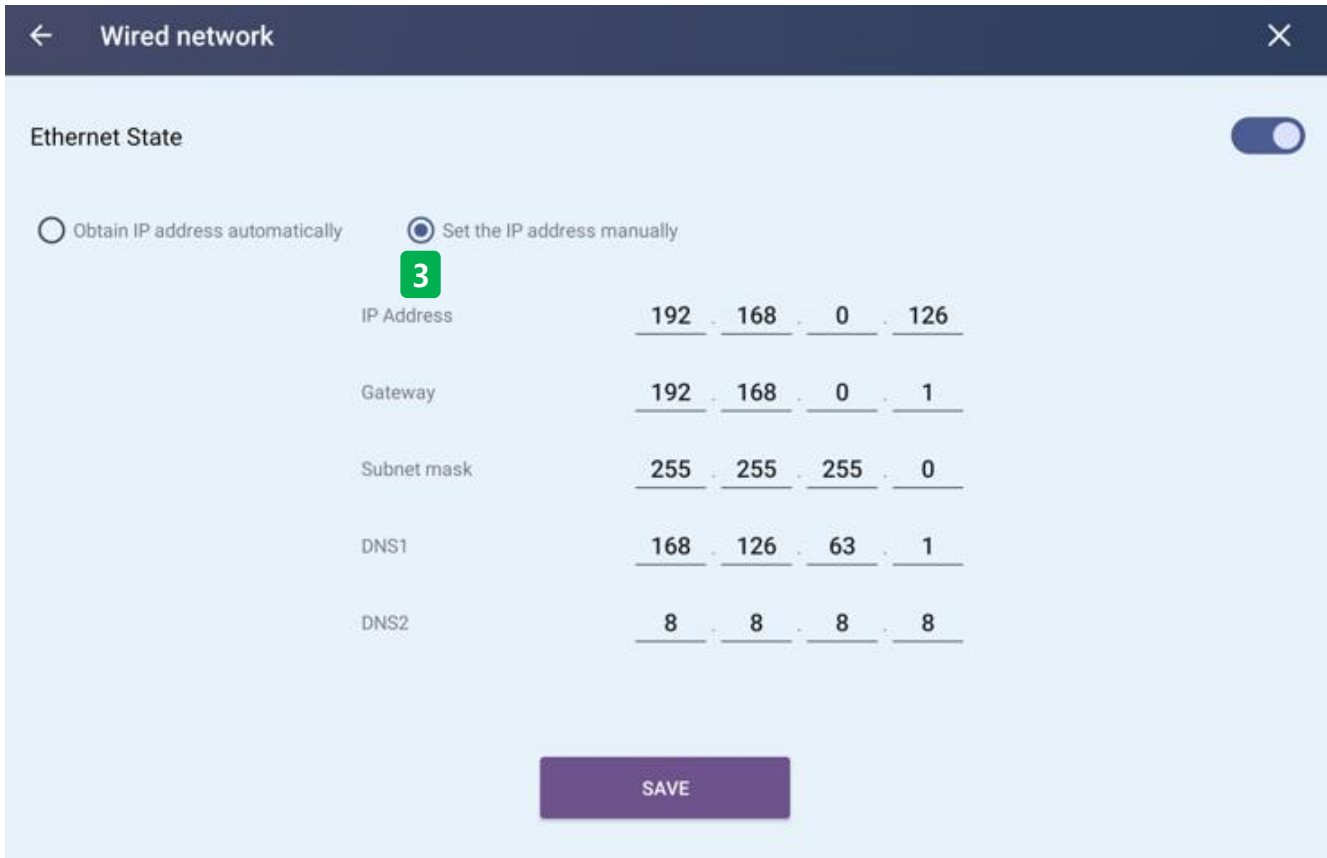
### ① Ethernet state

- Turn on/off the Ethernet connection.
- The Wi-Fi connection is automatically broken when connecting Ethernet.

### ② Obtain IP address automatically

- The IP address and other communication parameters are automatically assigned to IFPD connected to the network.
- After setup, Users can connect to the Internet using DHCP on the wired network.

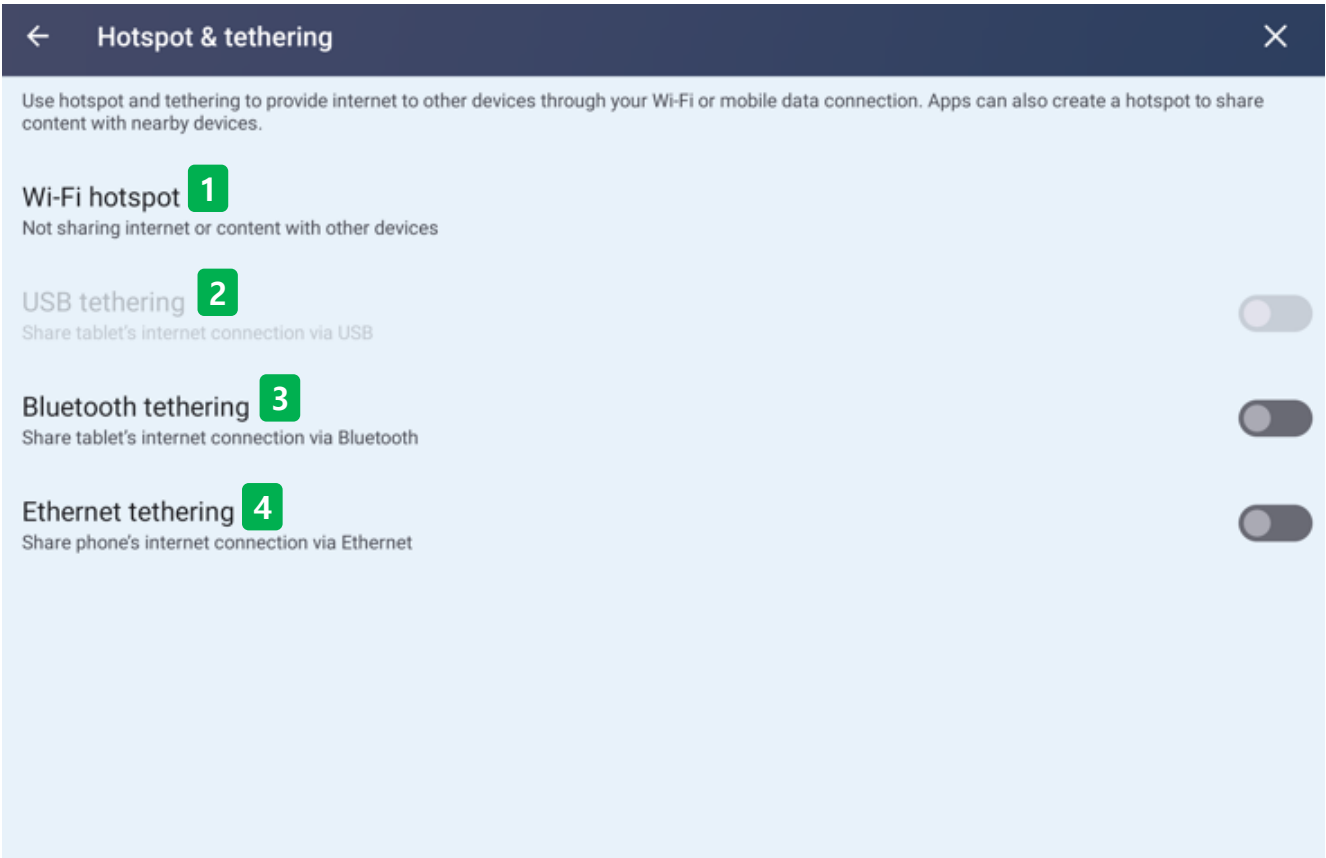
### 5.1.2 Wired network



#### ③ Set the IP address manually

- Manually enter the IP address, Gateway, Subnet mask, DNS address directly.
- After setting up, Users can connect to the Internet using the fixed IP of the wired network.

### 5.1.3 Hotspot & tethering



#### ❖ Hotspot & tethering

- Hotspots and tethering allow other devices to use the Internet via my Wi-Fi or mobile data connection. Apps can also create hotspots to share content with peripherals.

#### ① Wi-Fi hotspot

- Select it to enter the detailed hotspot settings.

#### ② USB tethering

- Connect USB to share IFPD's Internet connection.
- The function is activated when connected to a mobile phone by USB. (The feature is not currently supported.)

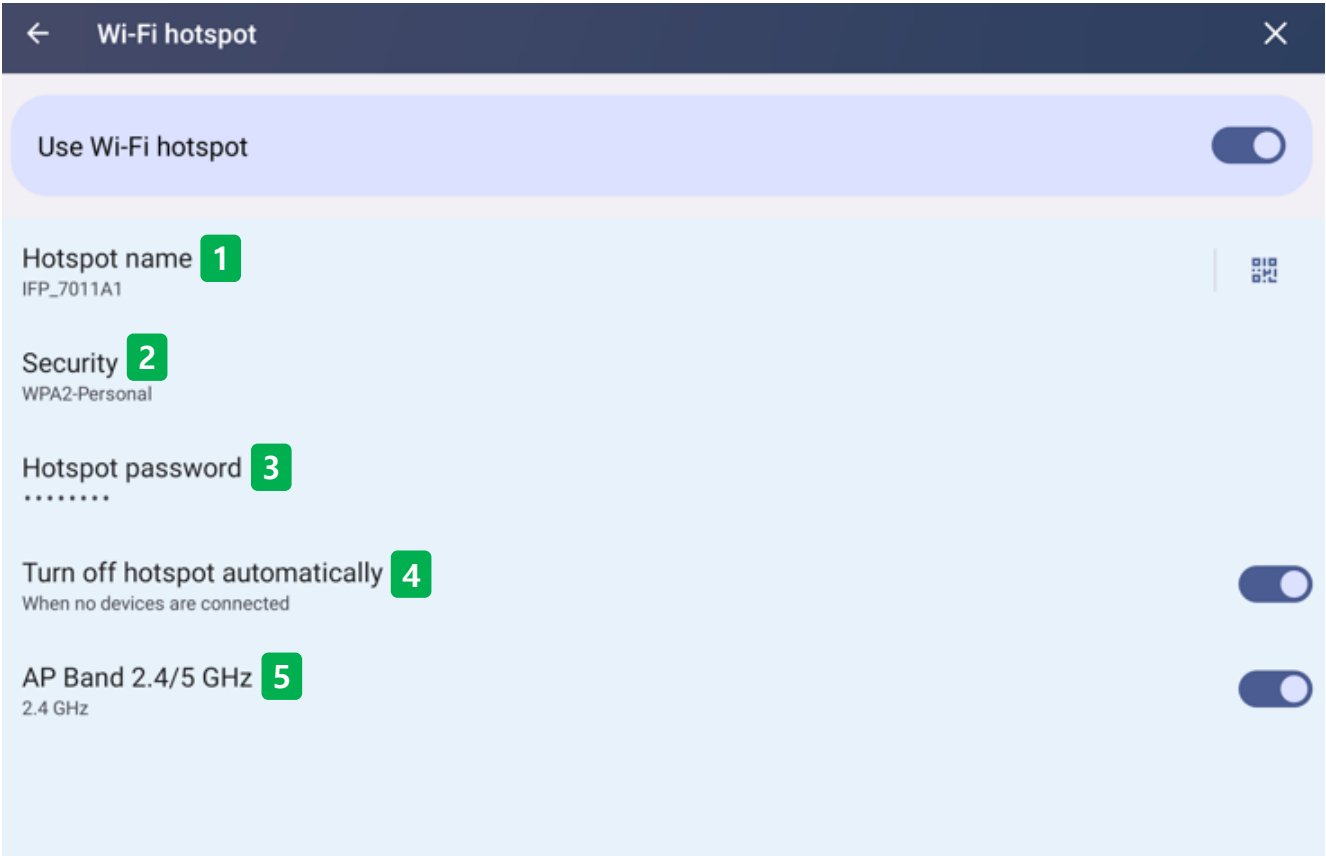
#### ③ Bluetooth tethering

- Connect Bluetooth to share the Internet connection between users mobile phone and IFPD.

#### ④ Ethernet tethering

- Share users phone's internet connection over Ethernet.
- It can work when connecting IFPD and mobile phones via Ethernet.

### 5.1.3 Hotspot & tethering

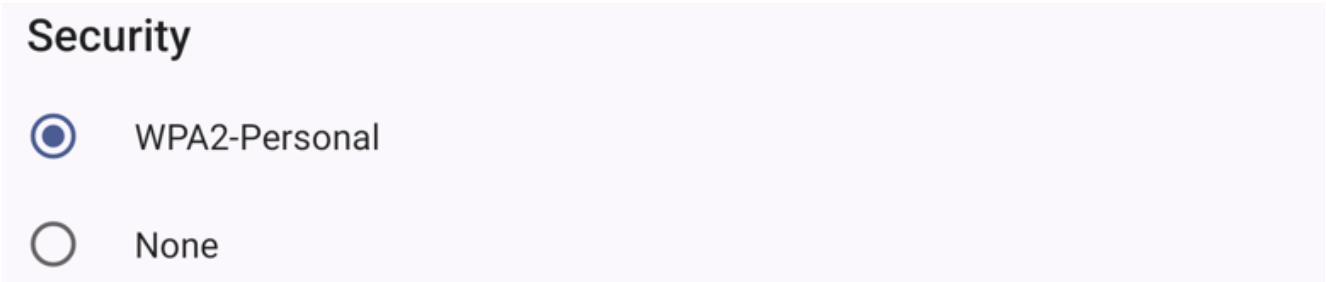


#### ① Hotspot name



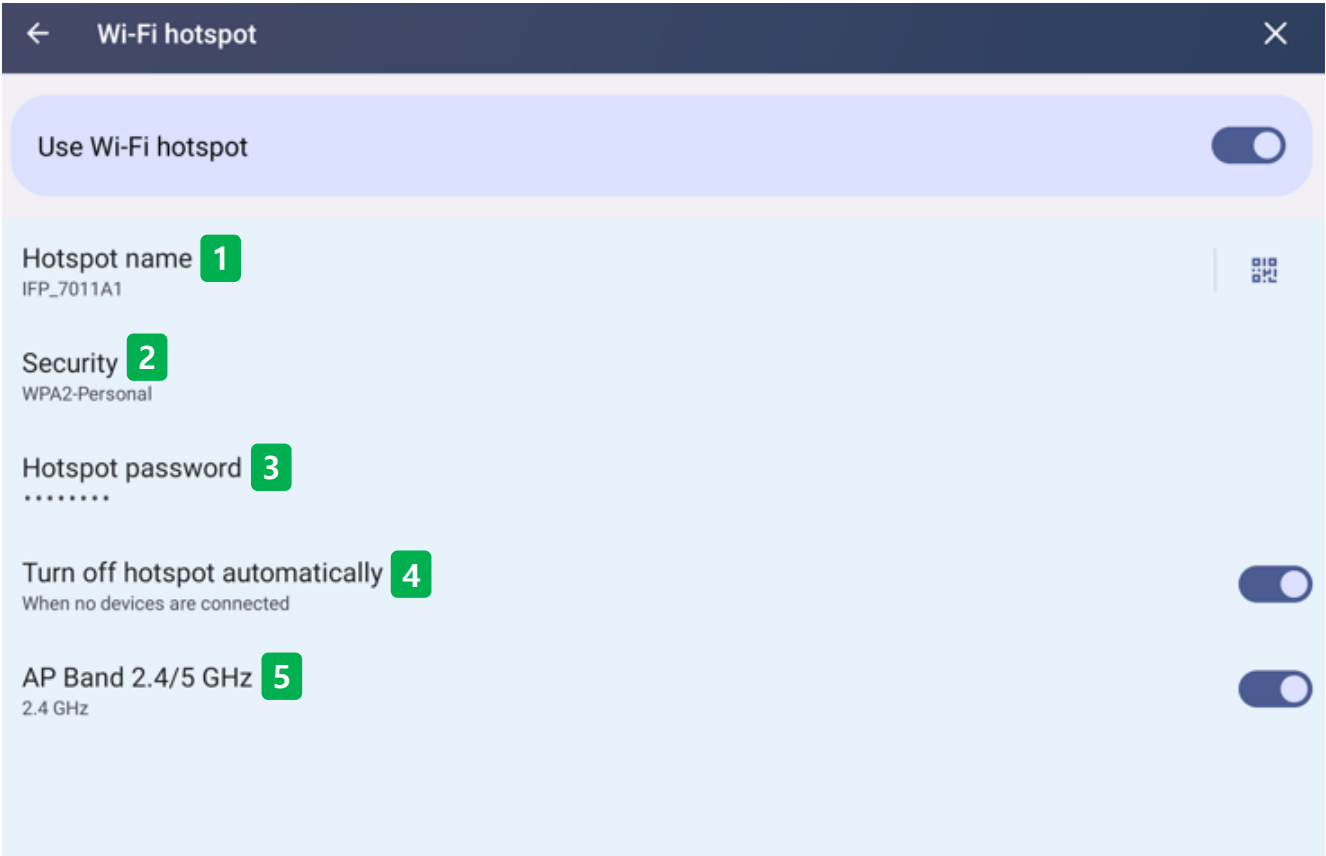
- Users can change the name of the hotspot when you select the Hotspot name section.

#### ② Security



- When selecting the Security part, Users can change the security protocol of HotSpot.
- WPA2-Personal : Encrypt the Wi-Fi hotspot to enter users password when connecting hotspot.
- None : Set the Wi-Fi Hotspot to connect without password input.

### 5.1.3 Hotspot & tethering



#### ③ Hotspot password



- Set the Hotspot password. (Initial Password: 12345678)

#### ④ Turn off hotspot automatically

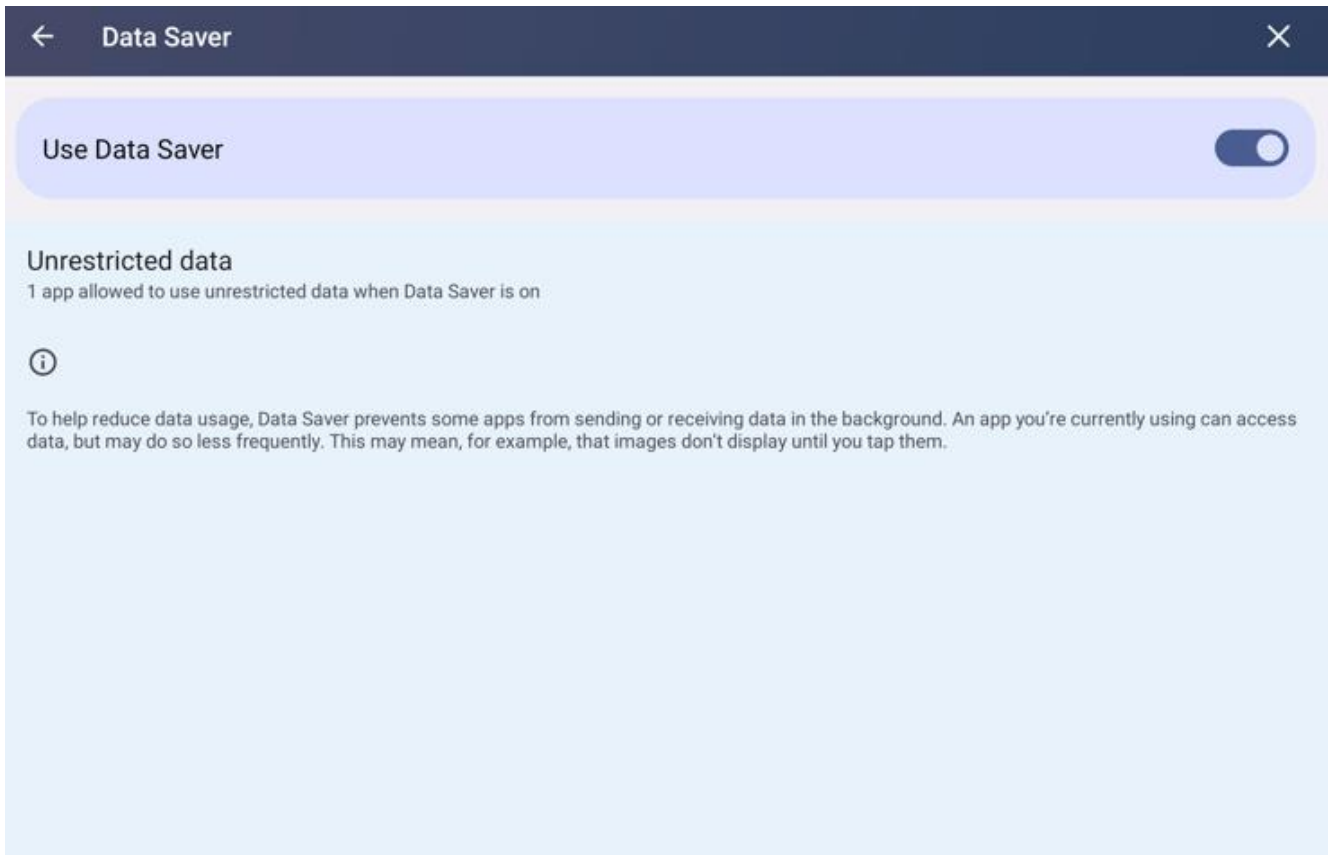
- If there is no device connected to HotSpot on IFPD, it automatically stops using Hotspot.

#### ⑤ AP band 2.4/5 GHz

- Switch the Hotspot band on IFPD through the ON/OFF button.
- ON : 2.4GHz
- OFF : 5GHz



## 5.1.4 Data saver



### ❖ Use data saver

- Turn on or off the data saving mode through the ON/OFF button.

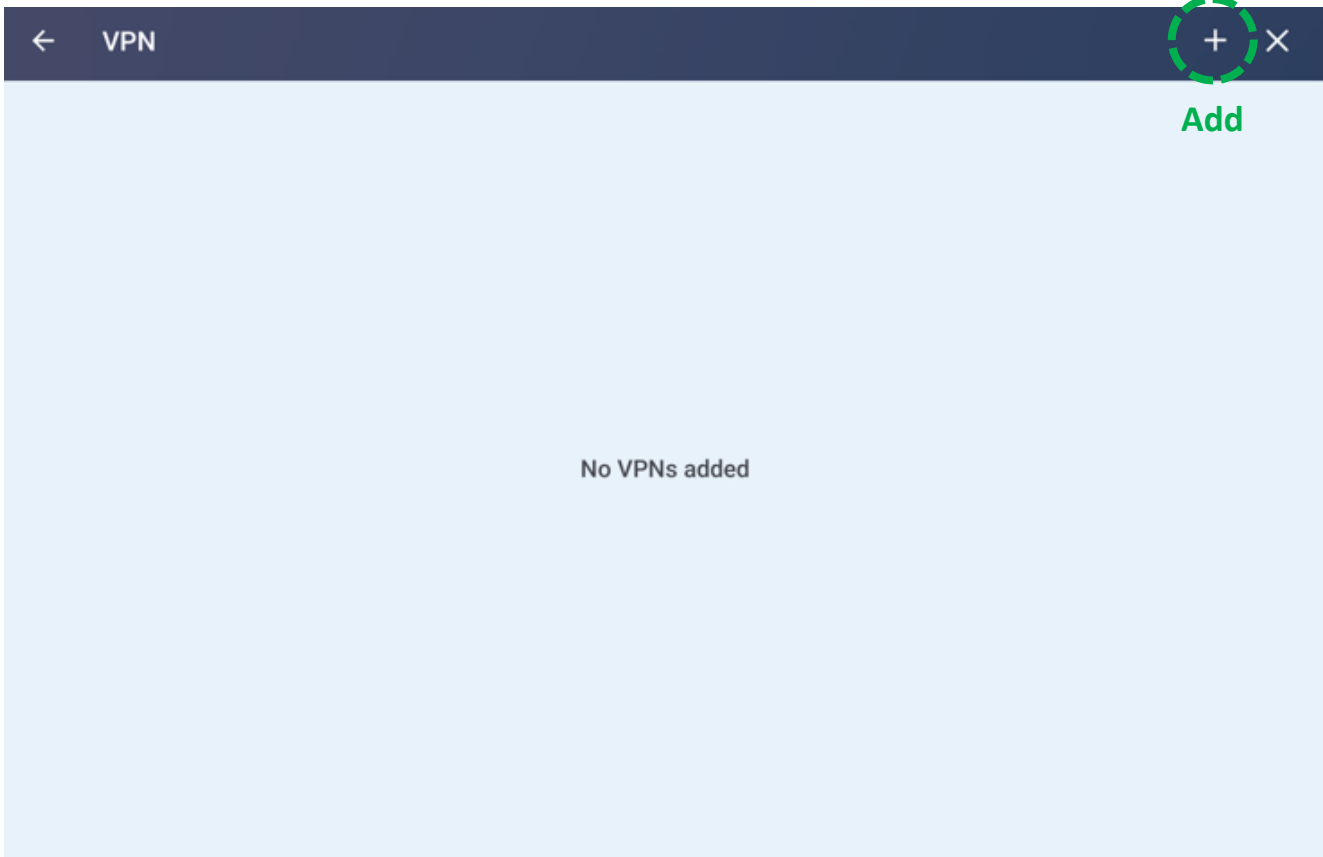
### ❖ Unrestricted data

- Allows one app to use unlimited data when Data Saving mode is on.

### ① Functional supplementary description

- To reduce data usage, Data Saver mode prevents some apps from sending or receiving data in the background. Users can access data in the app currently in use, but the frequency is reduced. For example, the image is not displayed before tapping the image.

# 5.1.5 VPN



## ❖ VPN

- Users can add VPN settings by clicking the "+" icon.

**Edit VPN profile**

Name

---

Type

IKEv2/IPSec MSCHAPv2

Server address

---

IPSec identifier

(not used)

---

IPSec CA certificate

(don't verify server)

IPSec server certificate

(received from server)

Proxy

None

Username

---

Password

---

Always-on VPN

The information entered doesn't support always-on VPN

CANCEL SAVE

### Name

- Set the name. (Random name designation)

### Type

- Select the connection type.
- IKEv2/IPSec MSCHAPv2
- IKEv2/IPSec PSK or RSA (2 types)

### Server address

- The IP address or full server hostname.

### IPSec identifier

- Leave that part blank.

### IPSec CA certificate

- Used only for user certificate connections and EAP connections.

### IPSec server certificate

- Used only for user certificate connections.

### Proxy

- Enter the proxy address of the router to connect.

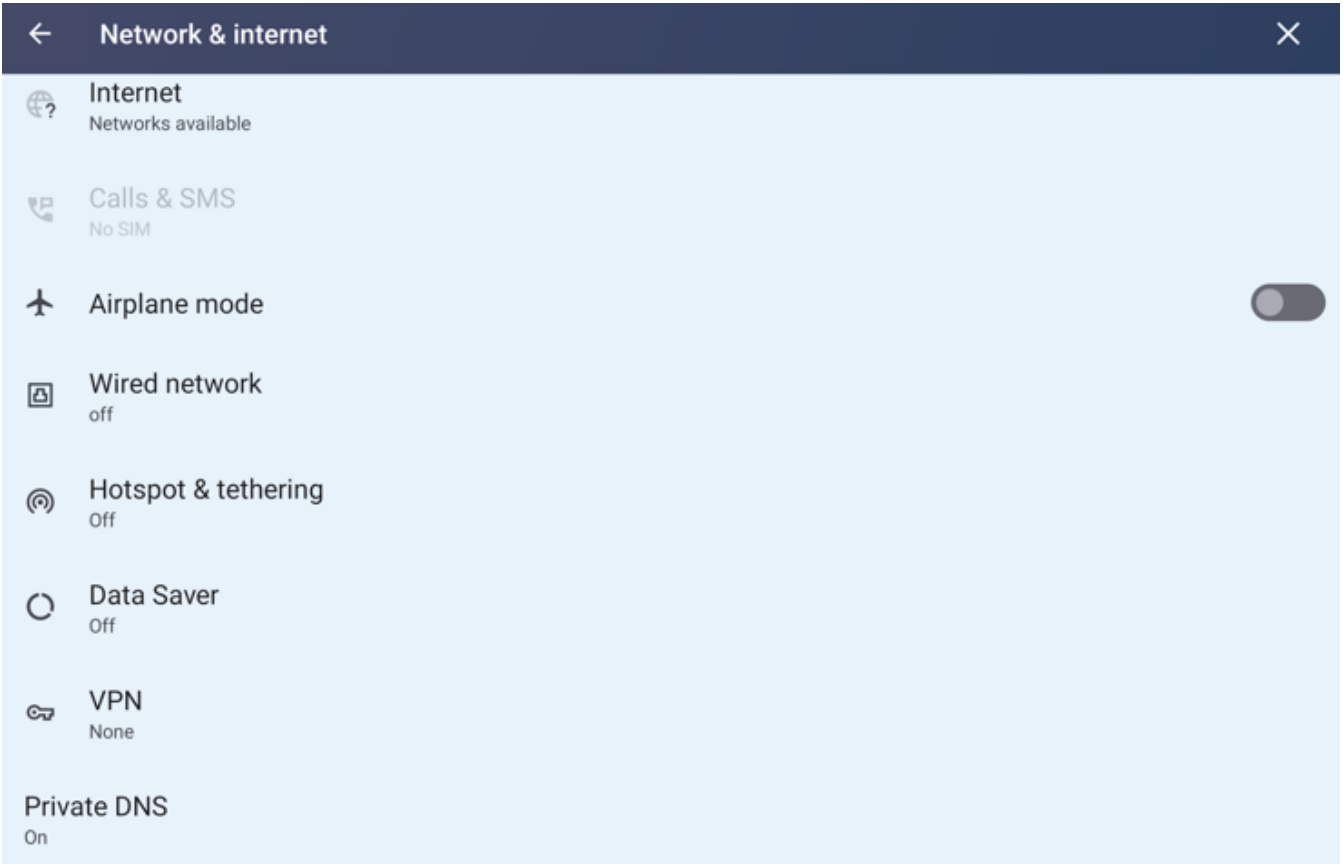
### Username

- Specify the ID to use when connecting VPN.

### Password

- Specify the password to use when connecting VPN.

## 5.1.6 Private DNS



### ❖ Private DNS

- The ability to specify a user-specified DNS server without using the ISP default server.
- Network security and usage environments may be improved than when using the default DNS server provided by a carrier.

#### Private DNS provider hostname

Enter hostname of DNS provider

CANCEL SAVE

### ❖ Android private DNS hostname setting example

#### **Google DNS (dns.google)**

- Google Public DNS protects users from many types of phishing attacks.

#### **AdGuard DNS (dns.adguard.com)**

- Free DNS to block ads, trackers, and phishing sites

#### **OpenDNS (dns.opendns.com)**

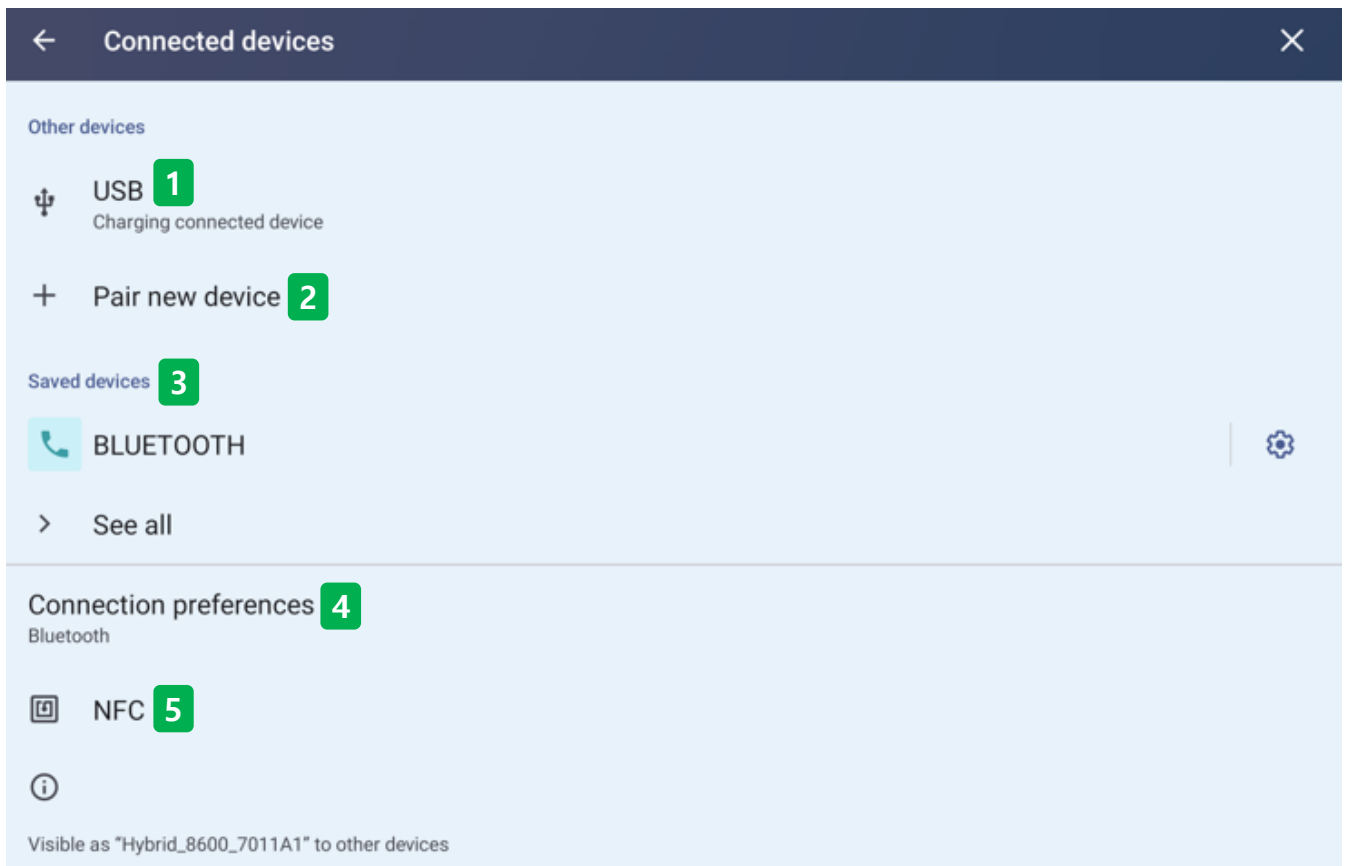
- Cloud-based DNS that provides Malware protection and content filtering

#### **NextDNS (dns.nextdns.io)**

- Cloud-based DNS with features such as blocking ads, anti-malware, and child protection

## 5. System setting

### 5.2 Connected device



#### ❖ Connect with external devices

- IFPD can be connected to an external device via Bluetooth, USB, Wi-Fi, etc.

#### ① USB

- Set the use and options of the external device connected by IFPD and the USB.

#### ② Pair new device

- Search and add Bluetooth-connected devices around IFPD.

#### ③ Saved devices

- Displays a saved list of IFPD and Bluetooth connections.

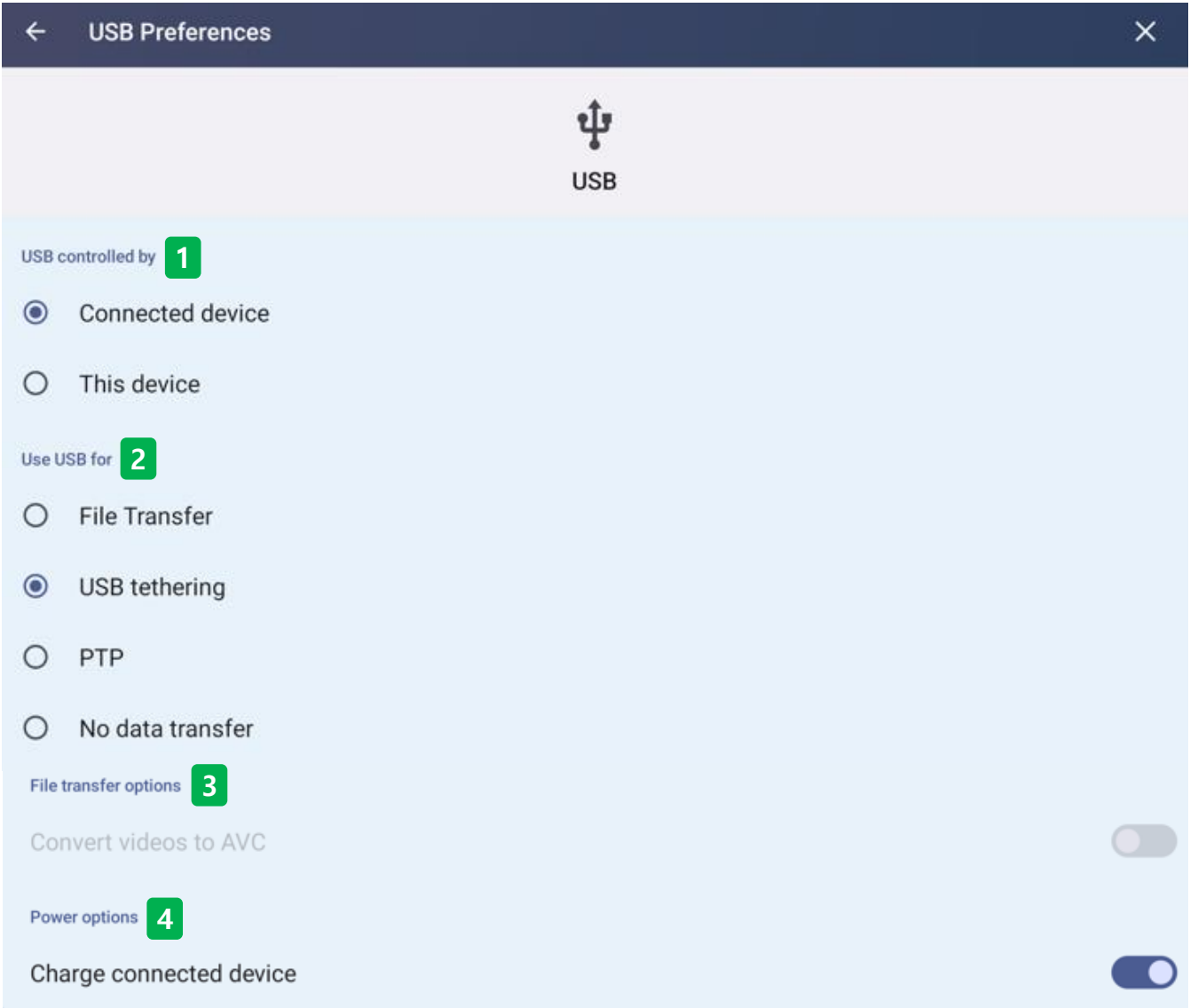
#### ④ Connection preferences

- Set preferences for connected devices. (Bluetooth, Cast, Printing, Nearby Share)

#### ⑤ NFC

- Register the NFC card on IFPD.

## 5.2.1 USB Preferences



**① USB controlled by**

- Users can switch USB control permissions with the USB device connected to IFPD.

**② Use USB for**

- Select the USB usage of the device connected to IFPD.
- The list that can be selected is not to transmit file transfer, USB tethering, PTP, and no data transmission.

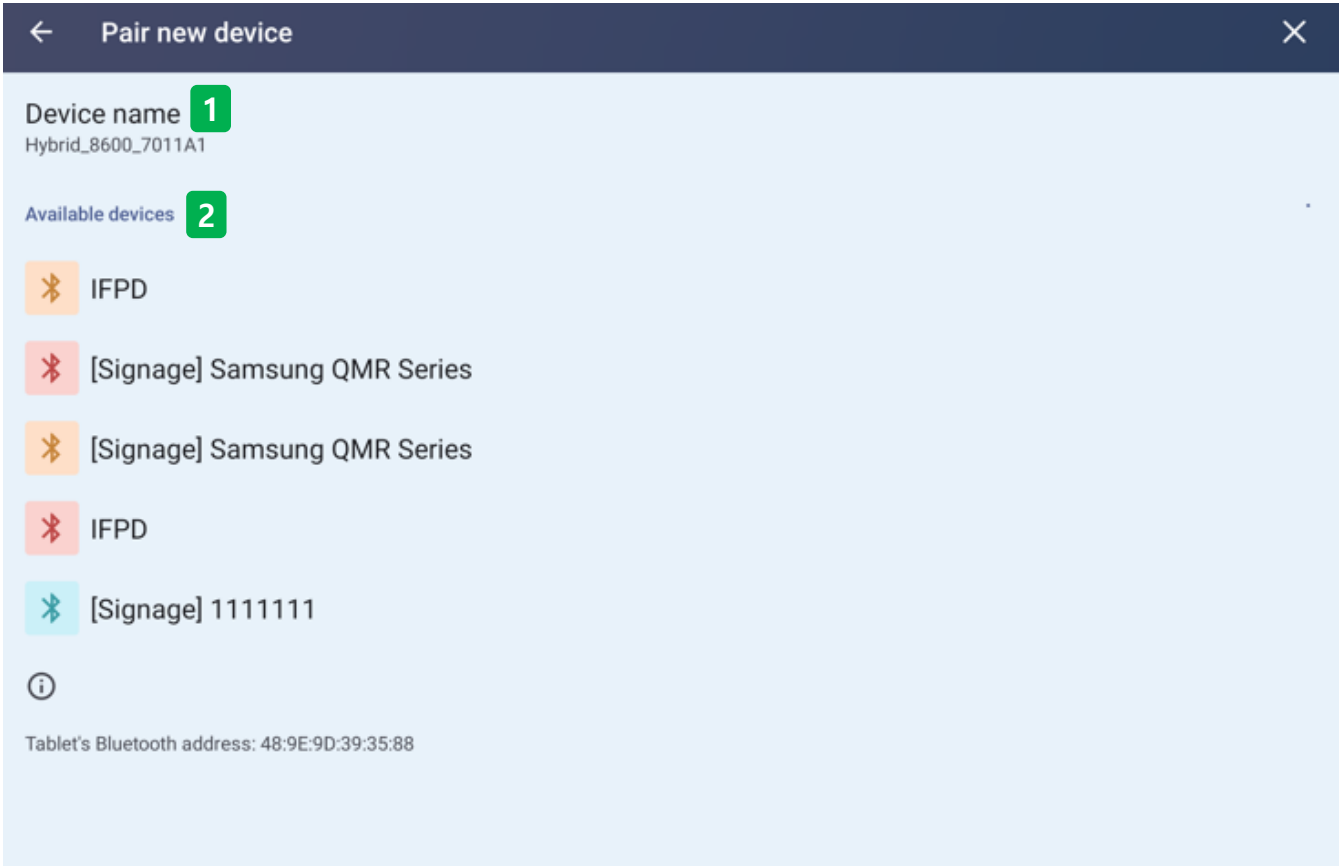
**③ File transfer options**

- When Users transfer a video file, Users can convert it to an AVC file.

**④ Power options**

- Users can turn the charging on and off for IFPD and USB-connected devices.

### 5.2.2 Pair new device



### Rename this device

Hybrid\_8600\_7011A1

CANCEL RENAME

① **Device name**

- Display the current Bluetooth name on IFPD, and Users can change the Bluetooth name by selecting this section.

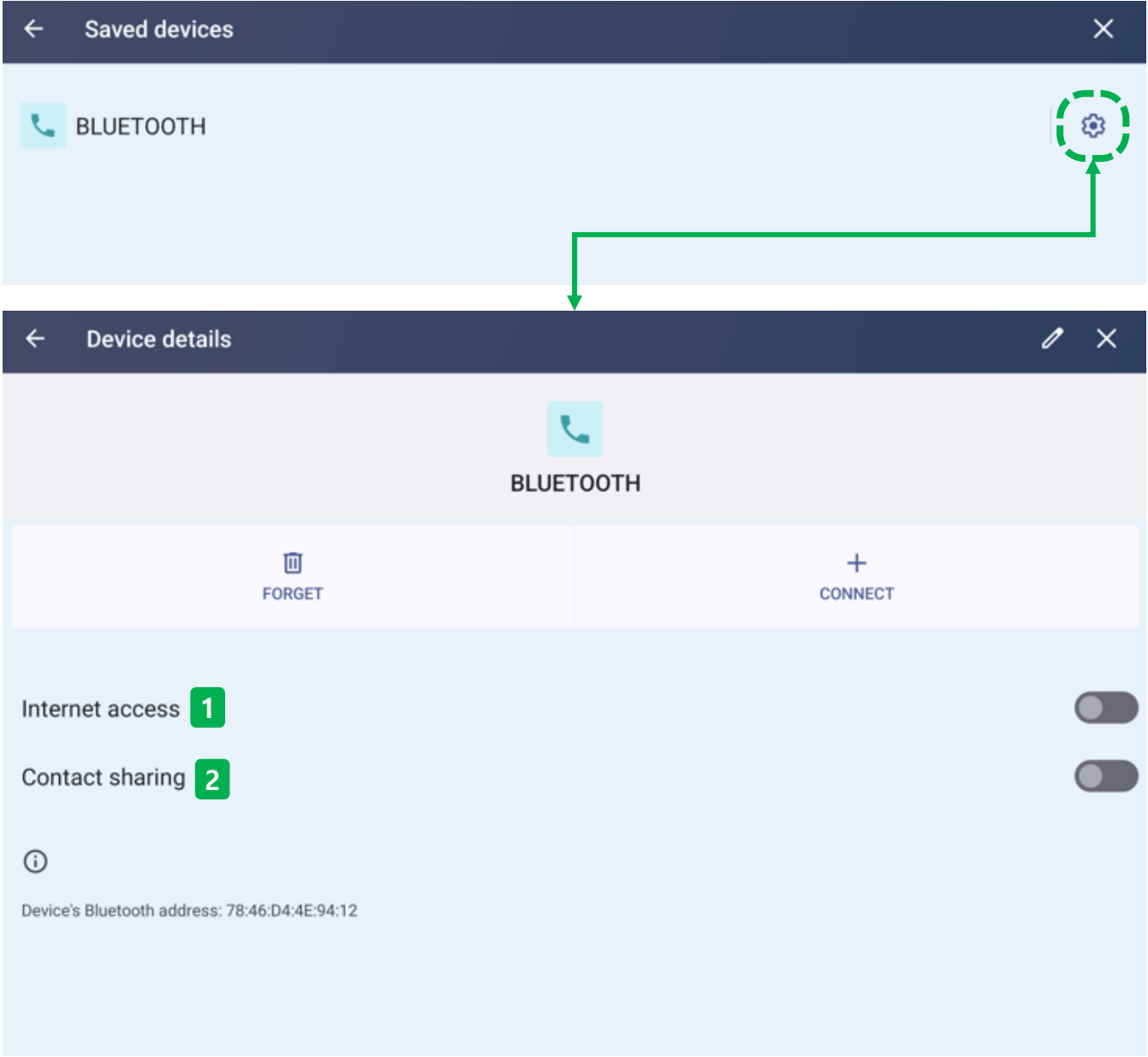
② **Available devices**

- Automatically search for nearby Bluetooth devices that can be connected from IFPD.
- Users can pair by selecting the Bluetooth device Users want to connect.

③ **Bluetooth address**

- Shows the Bluetooth-specific address of the product.

### 5.2.3 Saved devices



① **Internet access**

- Bluetooth tethering allows Users to share users network.

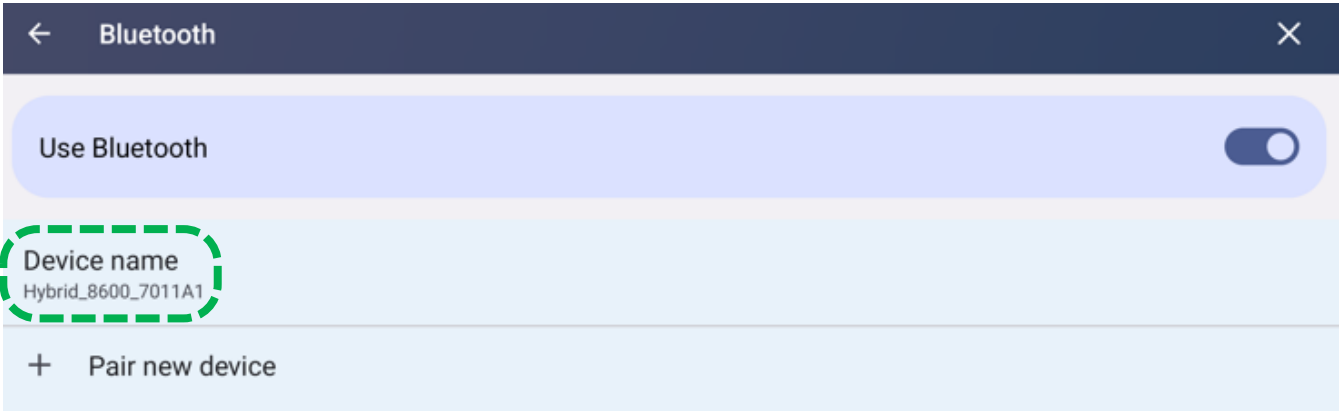
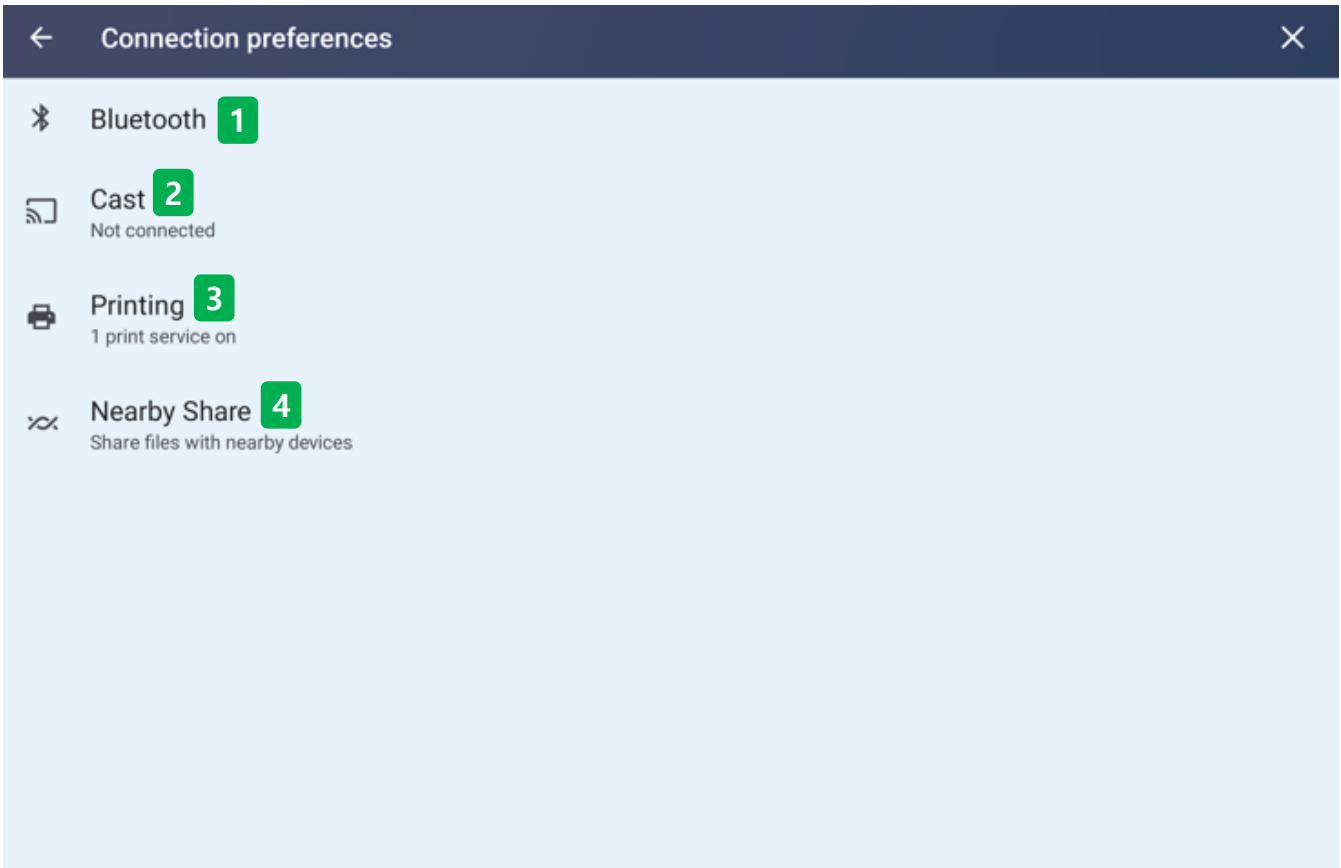
② **Contact sharing**

- Share the user's phone's contacts and save them on IFPD.

① **Bluetooth address**

- Shows the Bluetooth-specific address of the connected device.

## 5.2.4 Connection preferences



### ① Bluetooth

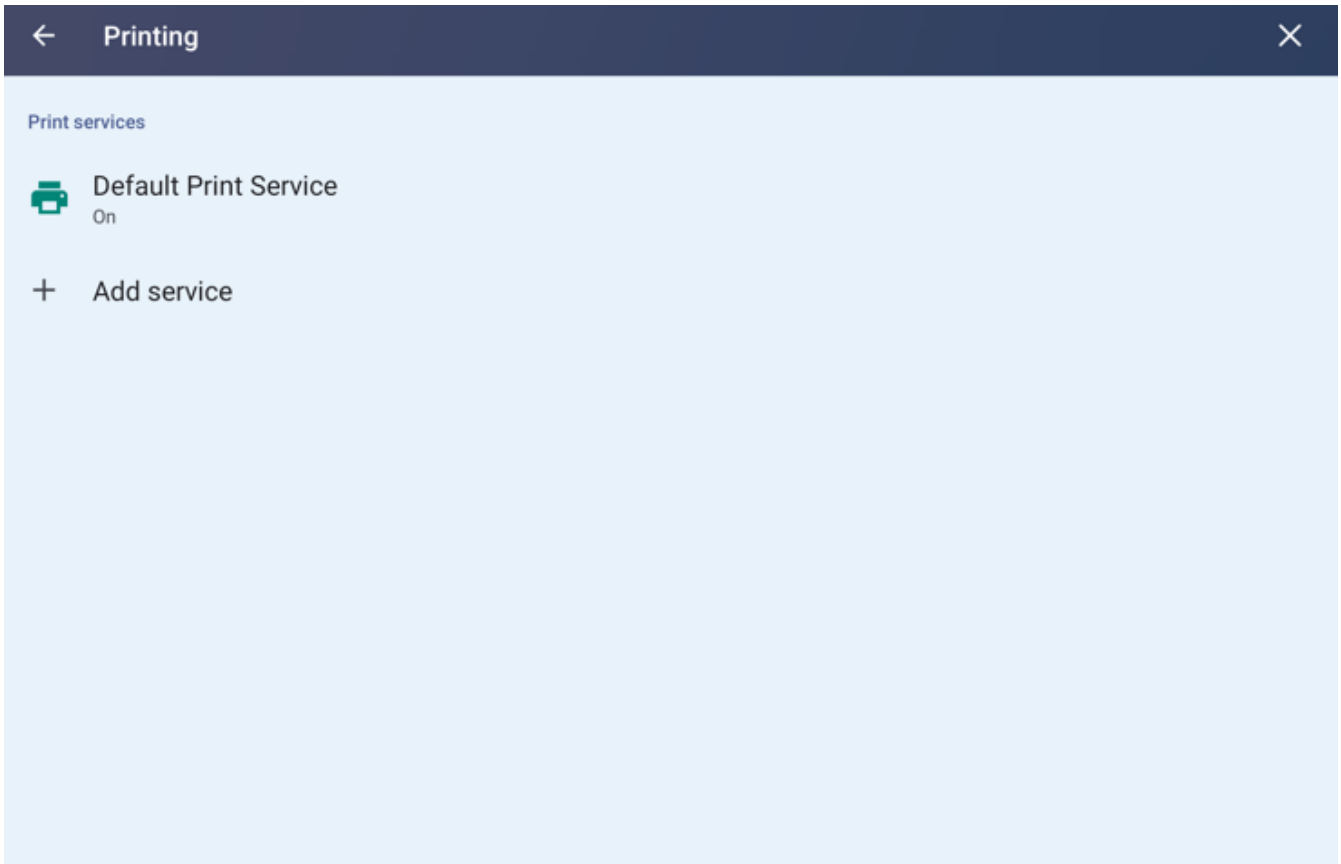
- In the Bluetooth section, Users can connect a new Bluetooth to IFPD or change the name of the device.

### ② Cast

- Shows a list of mobile phones connected by IFPD and Mirroring.
- IFPD and mobile phones must be connected to the same Wi-Fi.



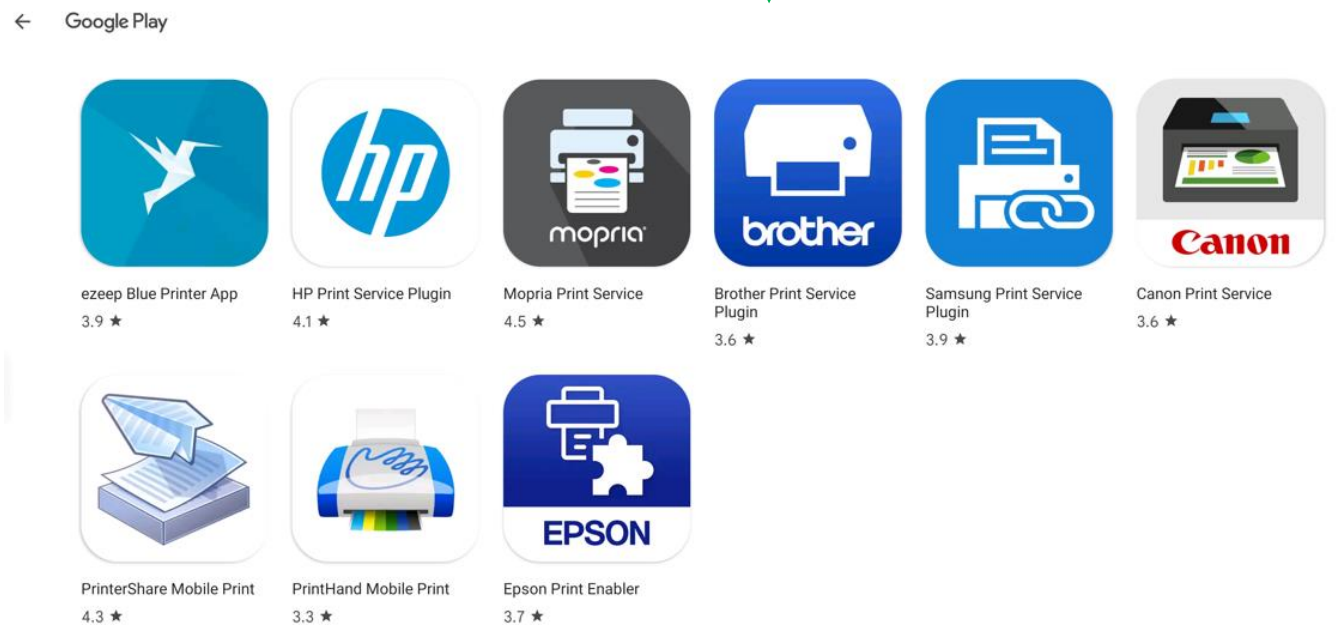
### 5.2.4 Connection preferences



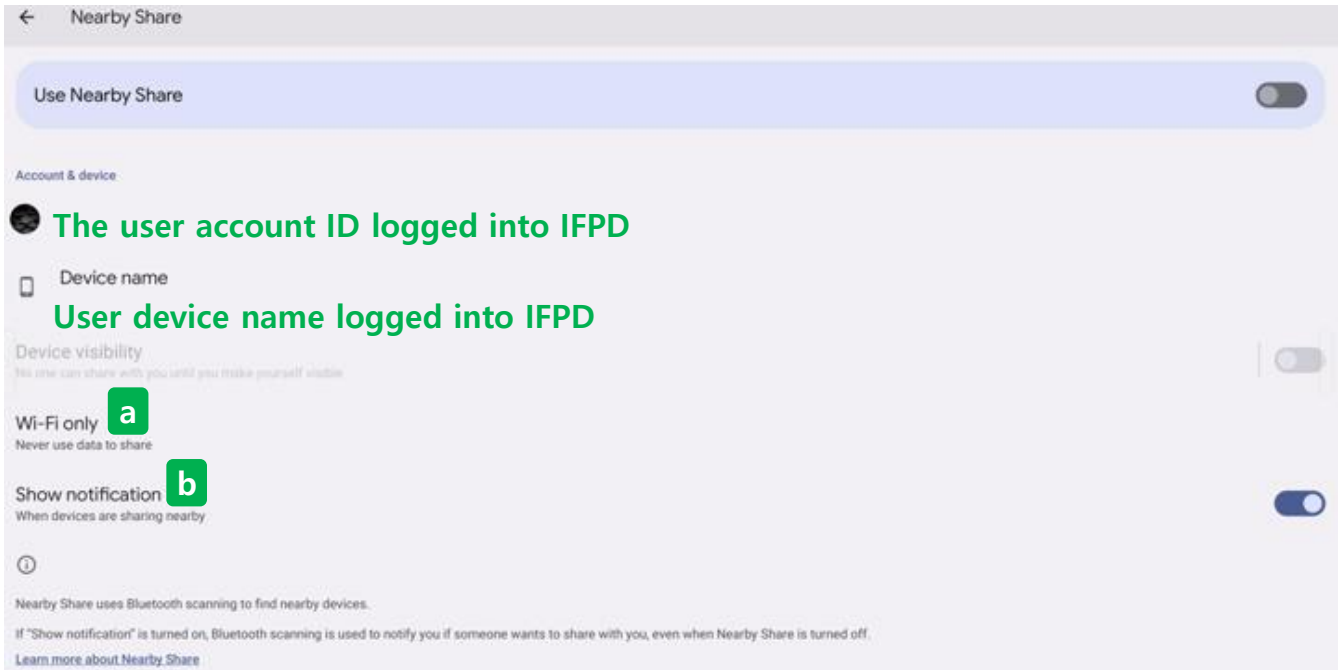
### ③ Printing

- Users can connect a Printer device to IFPD and use it.
- Refer to each printer manufacturer's connection description for details on how to connect the printers.

(Ex: network connection, Bluetooth connection, installation of dedicated apps through Google Play Store etc.)



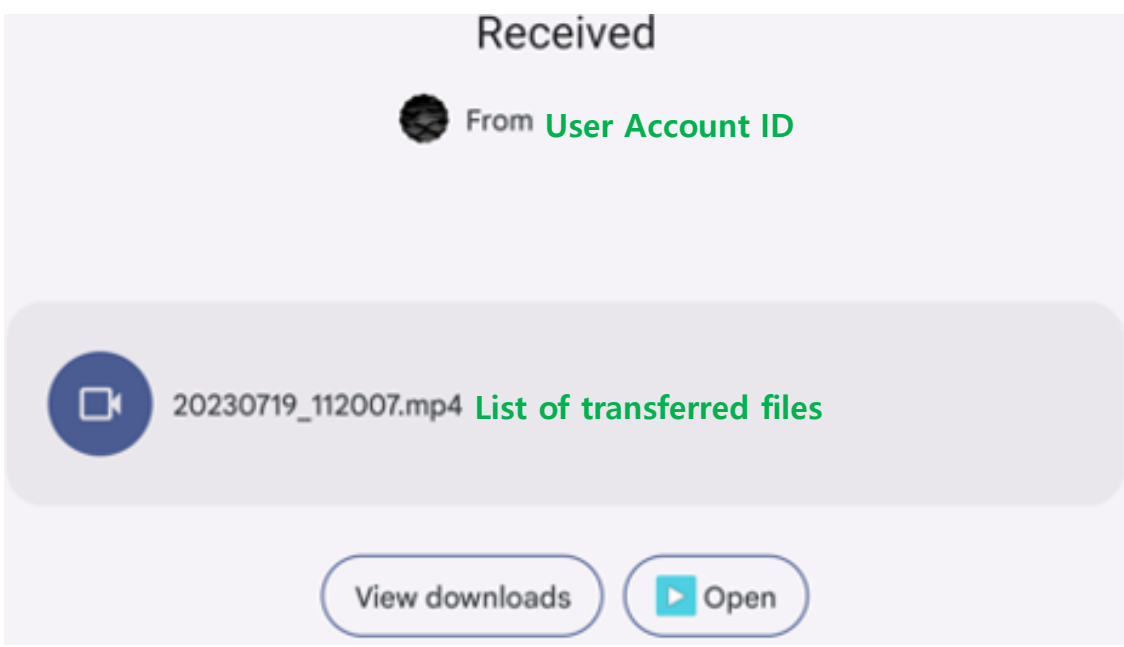
## 5.2.4 Connection preferences



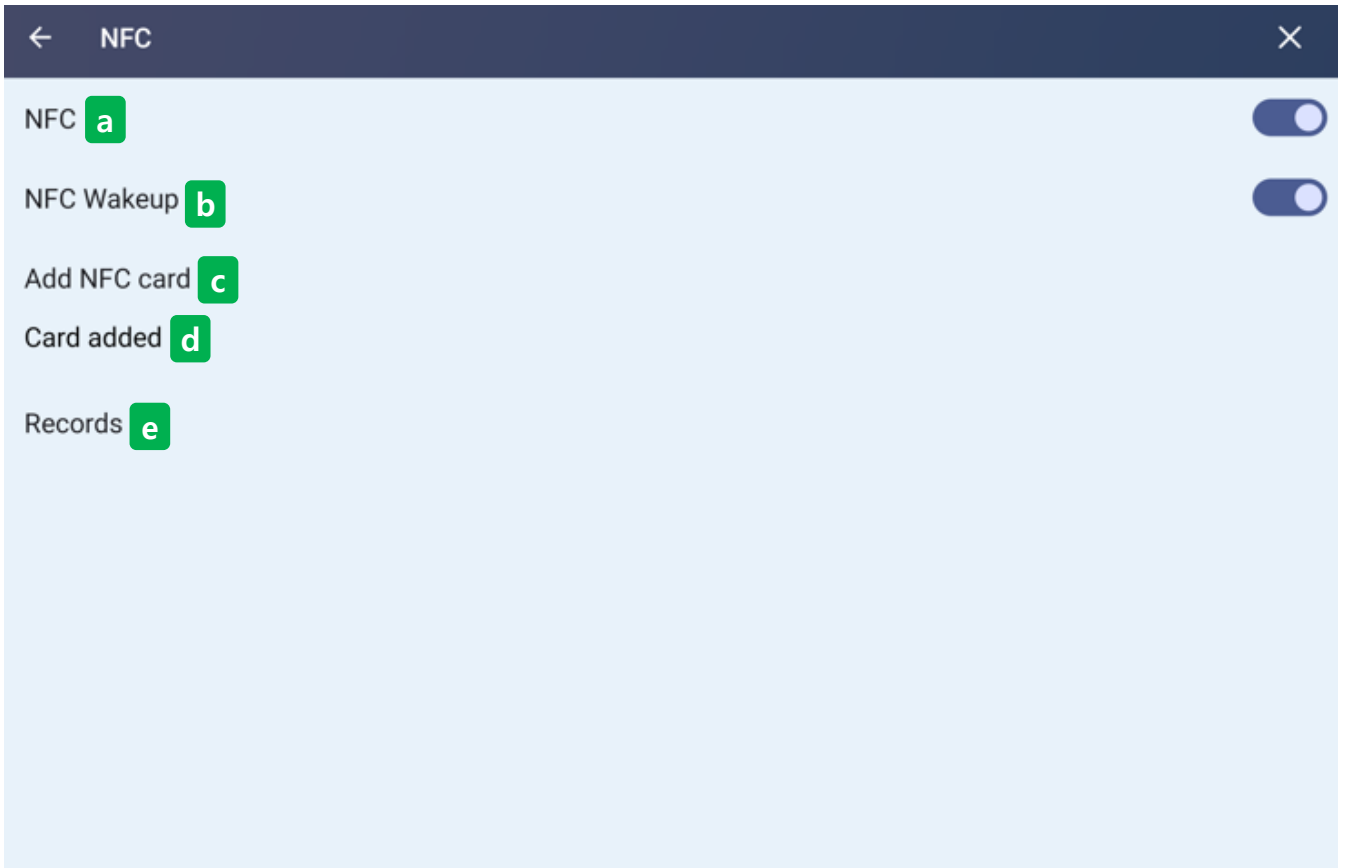
### ④ Nearby share

- It is a function of shares files such as photos, videos/documents, etc. as a large-capacity file transmission function and direct information on the nearby device.

- Ⓐ Enable file sharing only when Wi-Fi is connected.
- Ⓑ The notification window is displayed after sharing or sharing is completed.



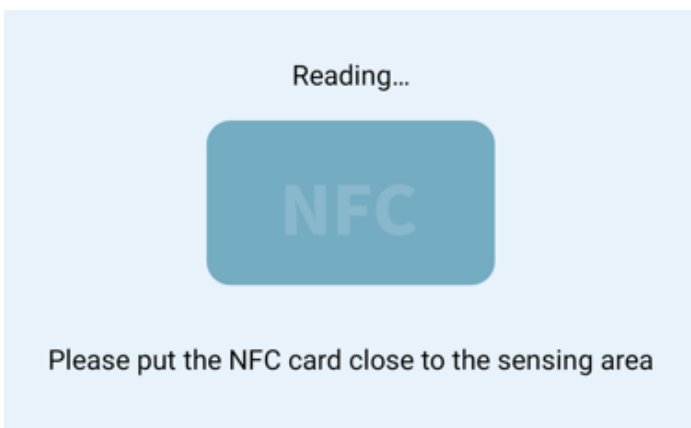
## 5.2.5 NFC



### ⑤ NFC

- Users can turn on the power by adding an NFC card to IFPD.
- When the NFC function is turned on, the power on IFPD can only be turned on through a registered NFC card.  
(The method of turning off the product does not change. Power buttons, remote controls, and shutdown functions can be turned off via the NFC card.)

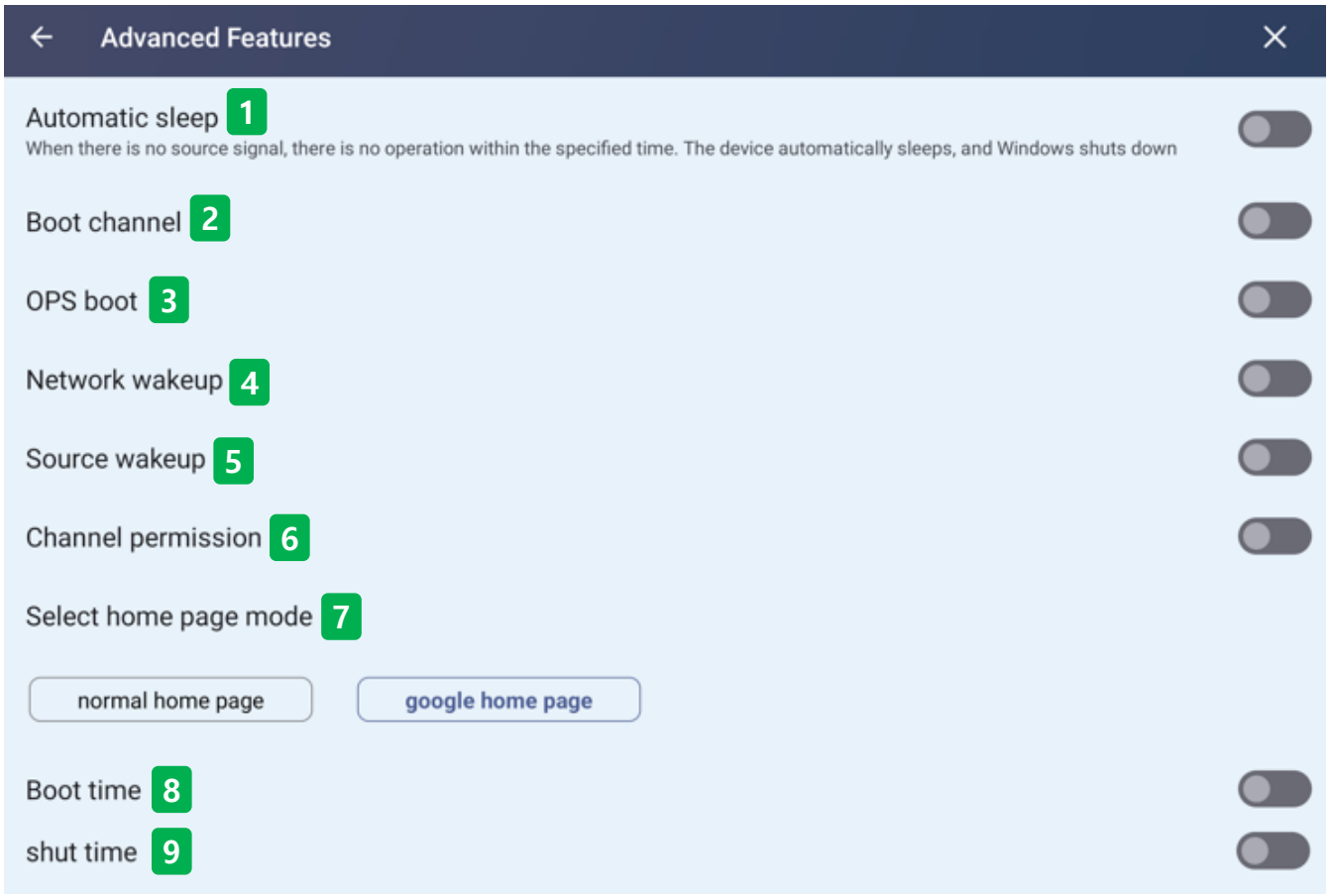
- Ⓐ Switch to enable or disable the NFC feature.
- Ⓑ Allow NFC cards to control the power of IFPD.
- Ⓒ Register the NFC card for the product. (Two NFC cards are provided for initial power control.)
  - Press the Add NFC Card and put the card on the NFC sensing area of the front of IFPD.



- Ⓓ Add a user-only card other than the NFC card that was provided.
- Ⓔ Users can check the history of the registered NFC card.

# 5. System setting

## 5.3 Advanced features



### ❖ Advanced features

- Control the power and external input-related functions of IFPD.

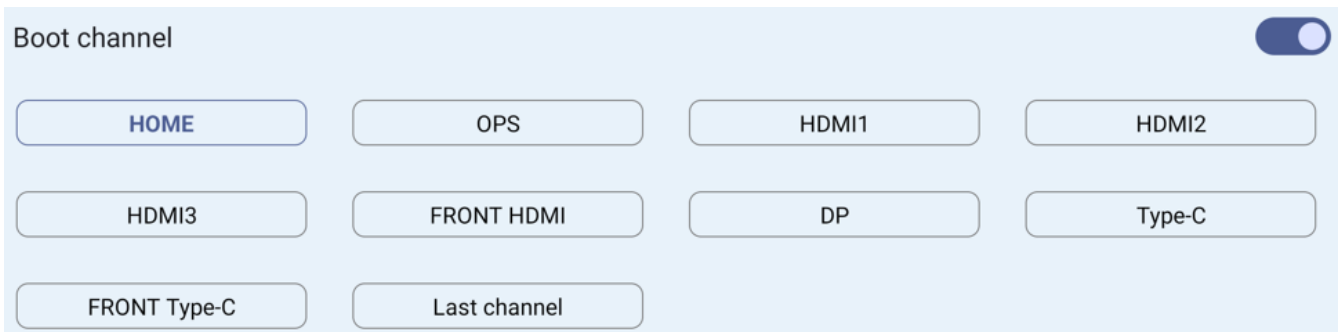
#### ① Automatic sleep

- When there is no source signal, there is no operation within specified time. The device automatically sleep and Windows shut down.



#### ② Boot channel

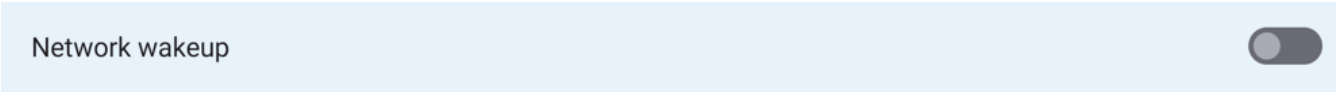
- Select the first screen to enter when IFPD turns on.





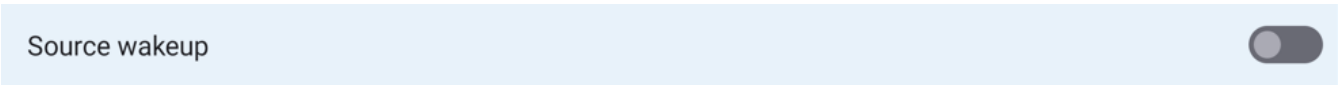
③ OPS boot

- Control the power of the OPS.
- OPS source only : When moving to the OPS screen, the OPS is turned on automatically.
- Any source : The OPS is automatically turned on when IFPD is turned on.



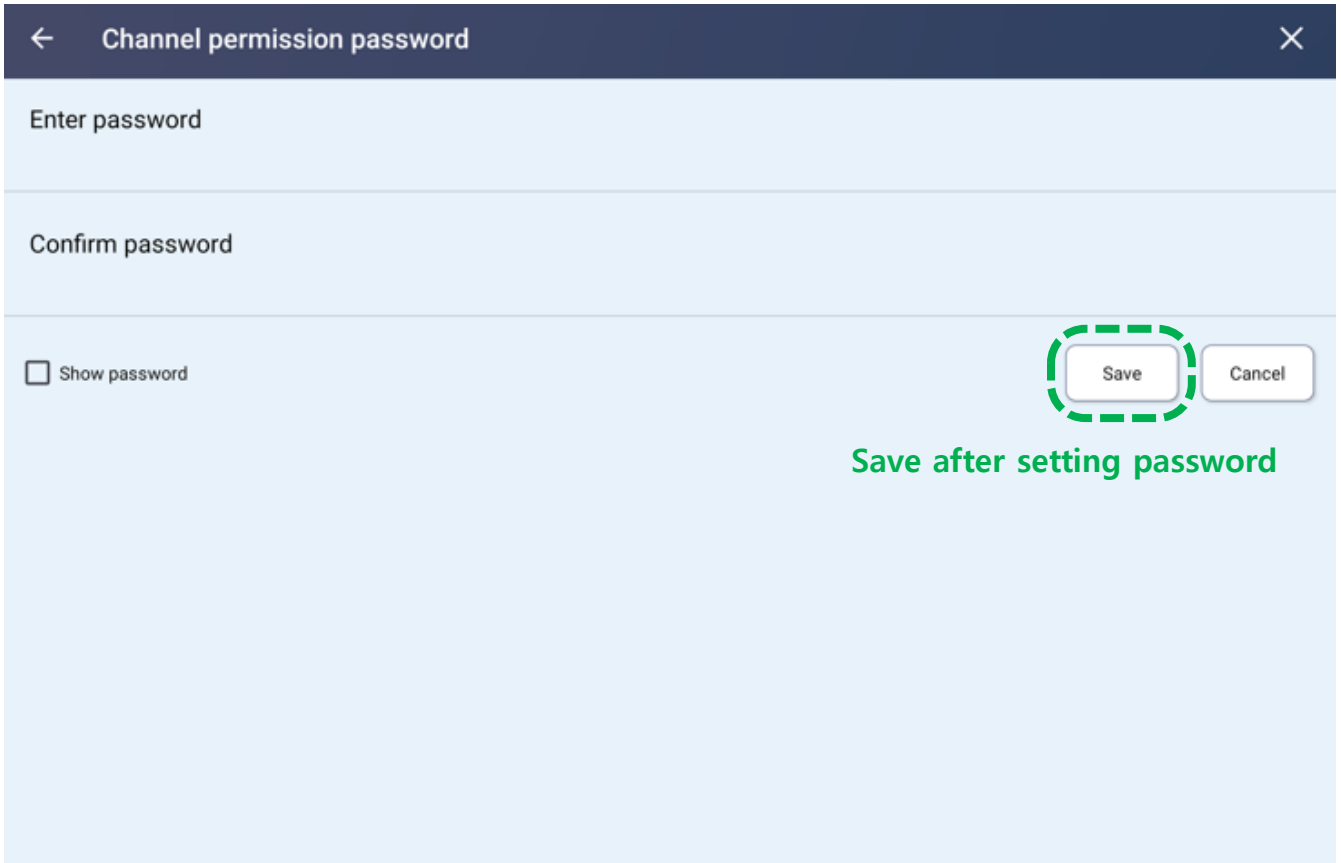
④ Network wakeup (Wake On Lan)

- By connecting a router to the electronic blackboard, Users can control the power of IFPD through other devices on the same network.
- For detailed connection instructions, please refer to each router manufacturer's product description.



⑤ Source wakeup

- Automatically power on IFPD when the HDMI signal from IFPD is input.

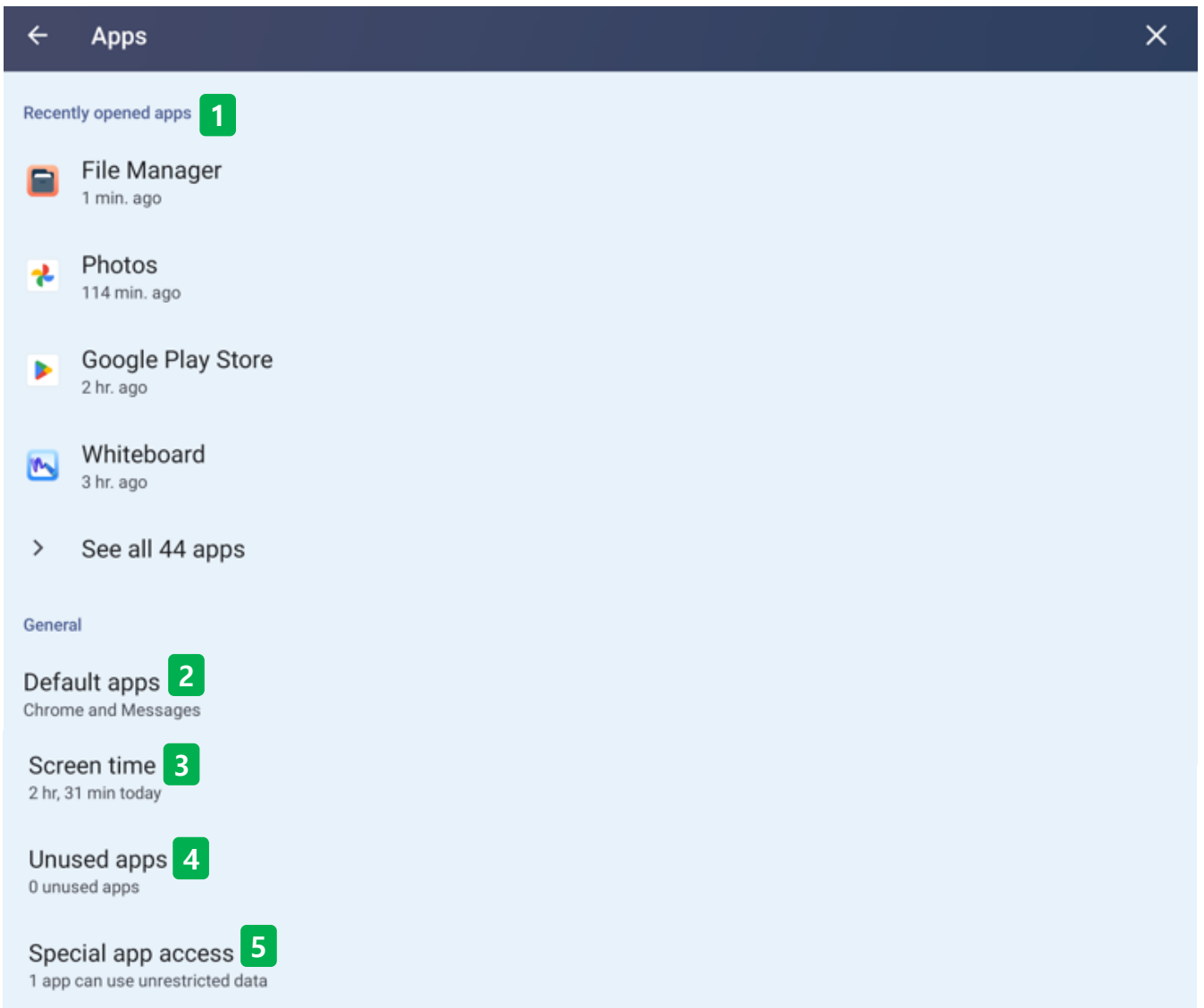


⑥ Channel permission password

- Set the screen to switch only after entering the password Users set when switching external screen signals.

## 5. System setting

### 5.4 Apps



#### ❖ App

- In the App section, Users can set the information, usage time, cache settings, and permission settings of all installed apps on IFPD.

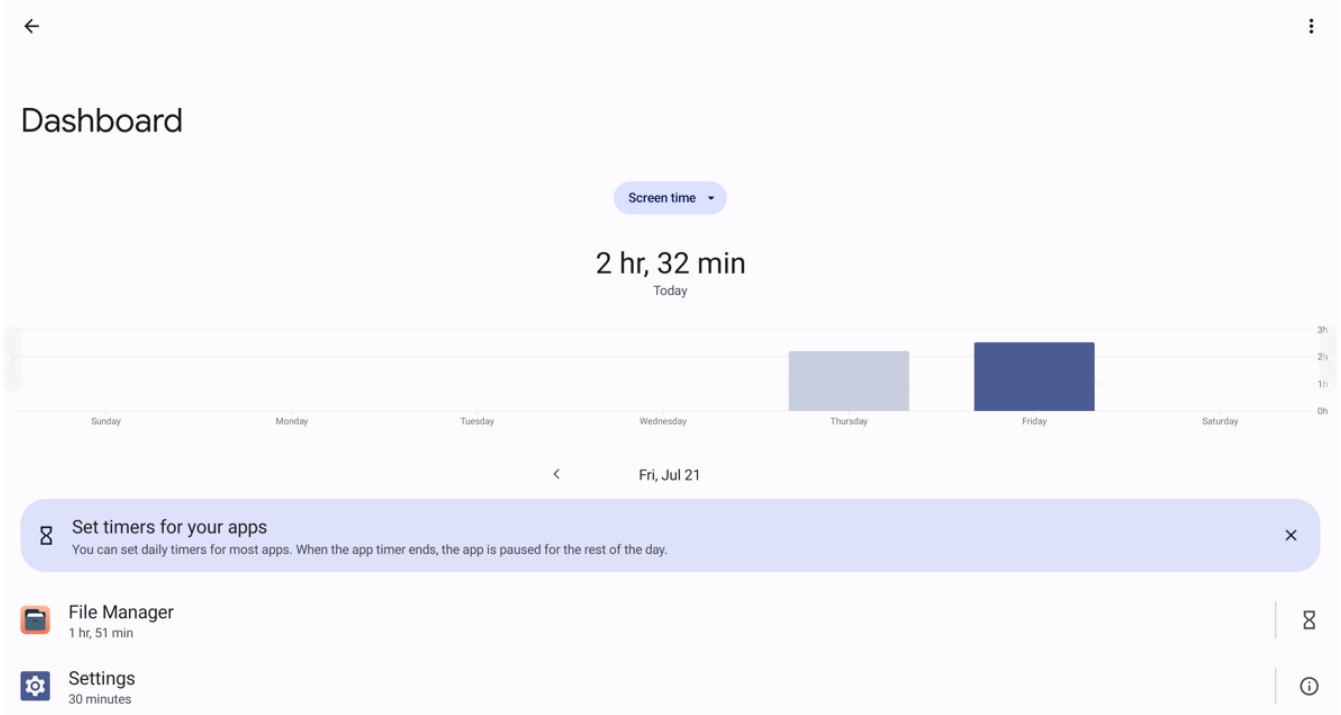
#### ① Recently opened apps

- Shows recently open App items and allows Users to view all App items installed on IFPD.
- When selecting the APP icon, Users can check the data such as notifications, permissions, storage capacity and cache, and data usage of each app..

#### ② Default apps

- It shows the default App entry on IFPD. (the default App cannot be deleted).

# 5.4 Apps



### ③ Screen time

- It shows Users a list of apps have used in the past week, and how many hours have spent with each app.

### ④ Unused apps

- It shows a list of apps that Users haven't used in a long time.

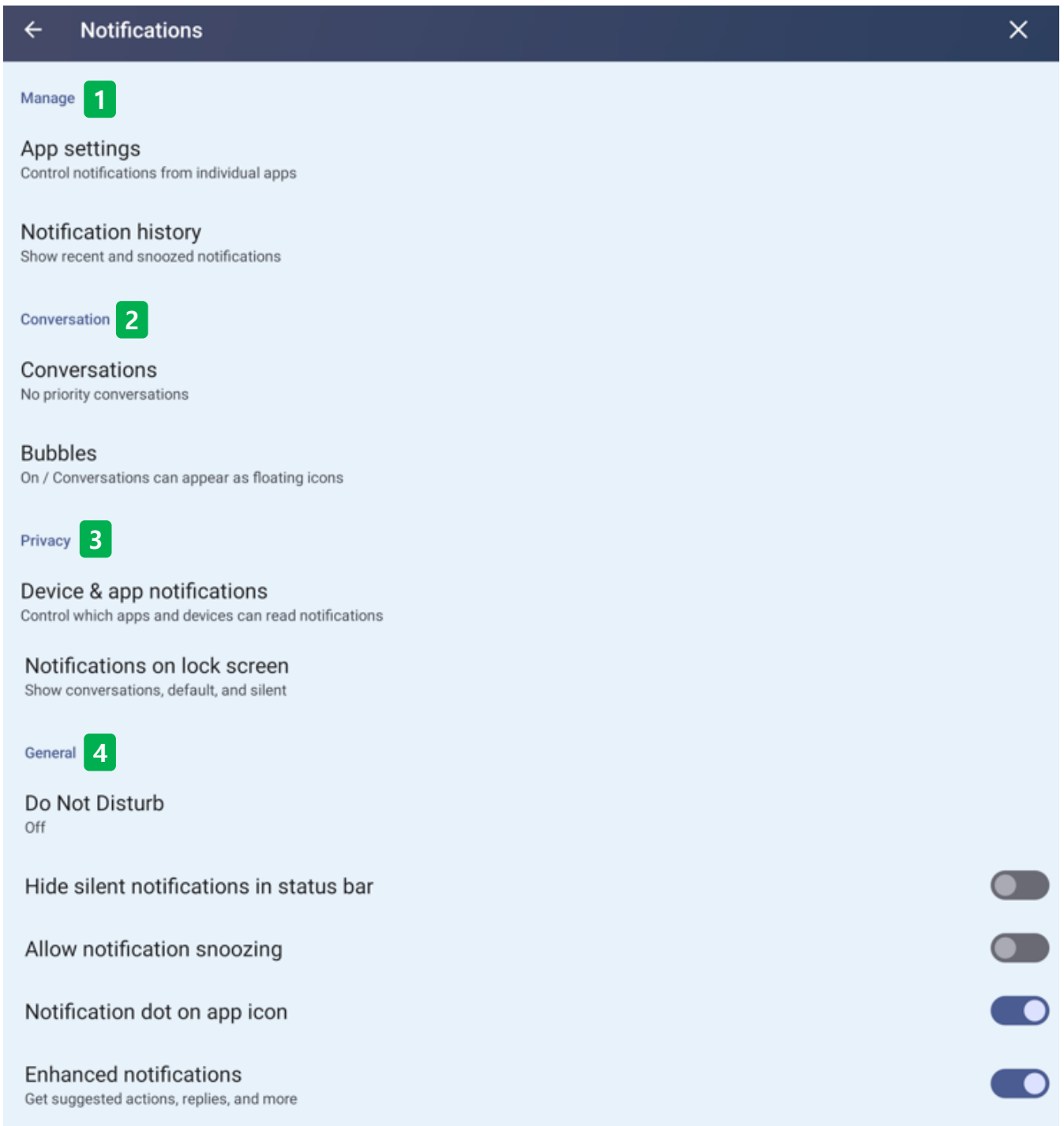
- Device & app notifications
- Picture-in-picture
- Premium SMS access
- Unrestricted data
- Install unknown apps
- Alarms & reminders
- Usage access
- VR helper services
- Wi-Fi control
- Turn screen on

### ⑤ Special app access

- Users can set the app's permissions in each item, including device and app notifications, PIP mode, premium SMS connection, unlimited data, unknown app installation, alarms and reminders, VR helper service, Wi-Fi control, and screen on.

## 5. System setting

### 5.5 Notifications

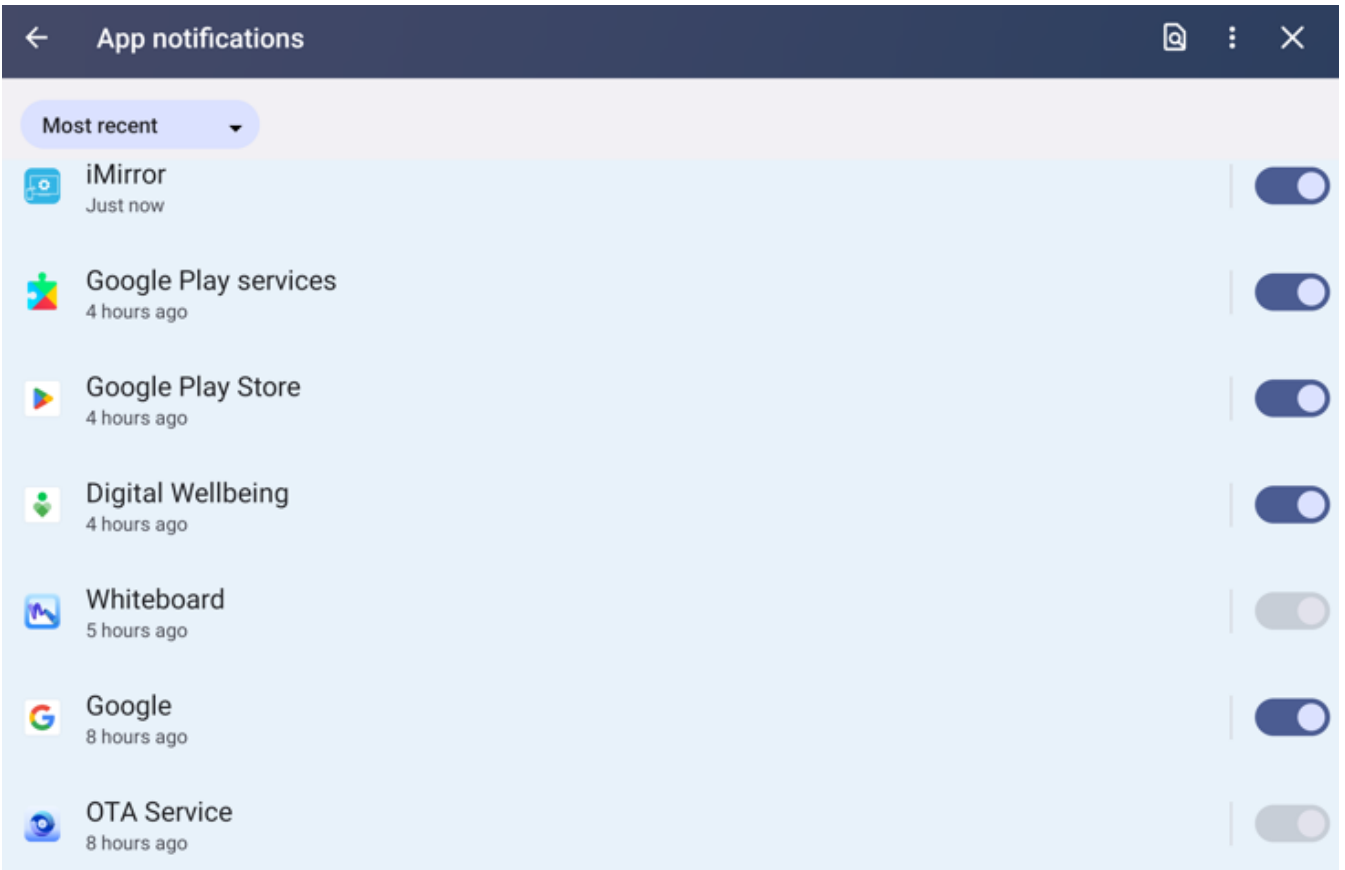


#### ❖ Notifications

- Control the notification features of IFPD.
- Adjust the notification, message, notification method setting for each app.



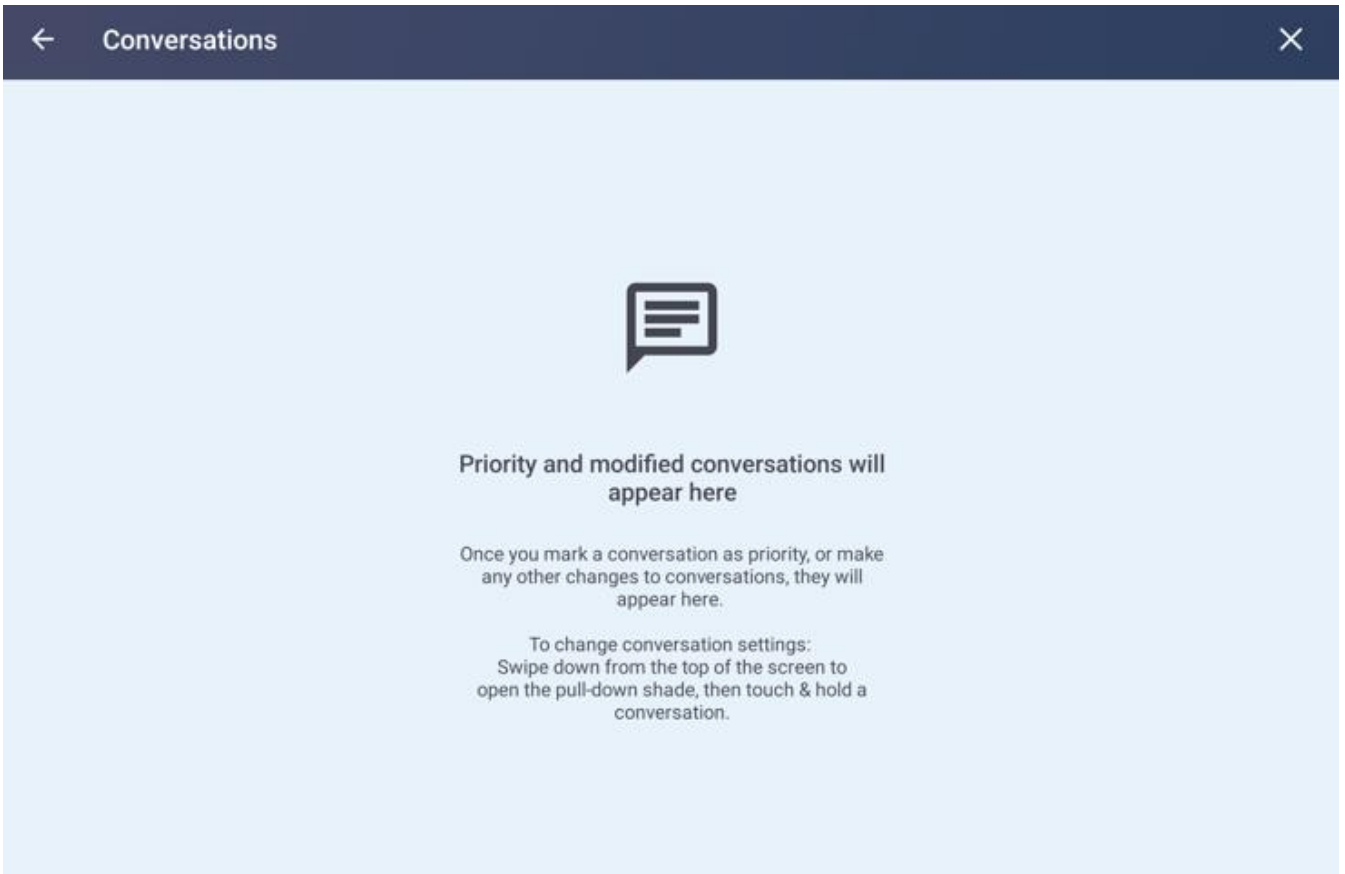
# 5.5 Notifications



## ① Manage

- Select whether to display notifications for each app in the App Settings menu
- Notification History menu shows a recent notification and checks a list of paused notifications.

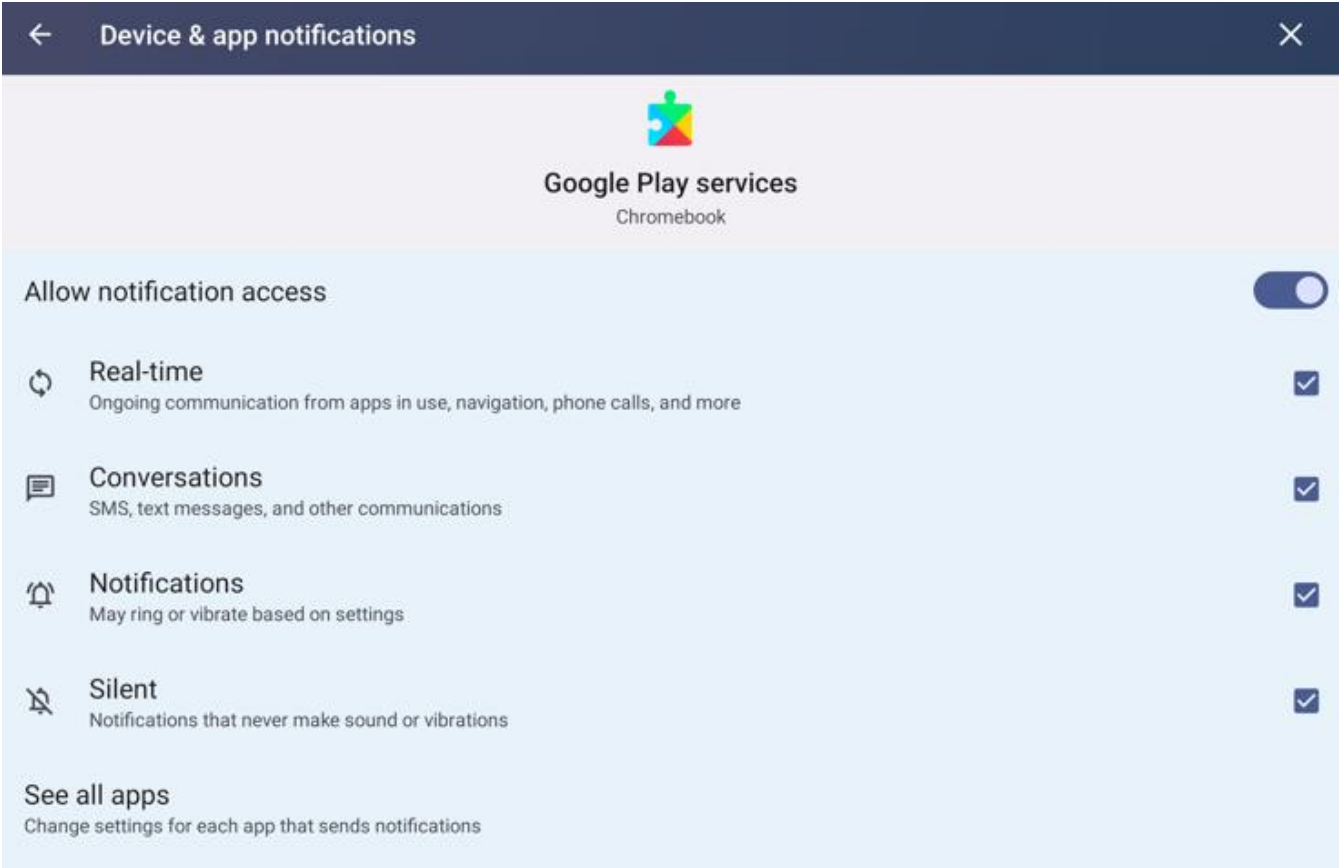
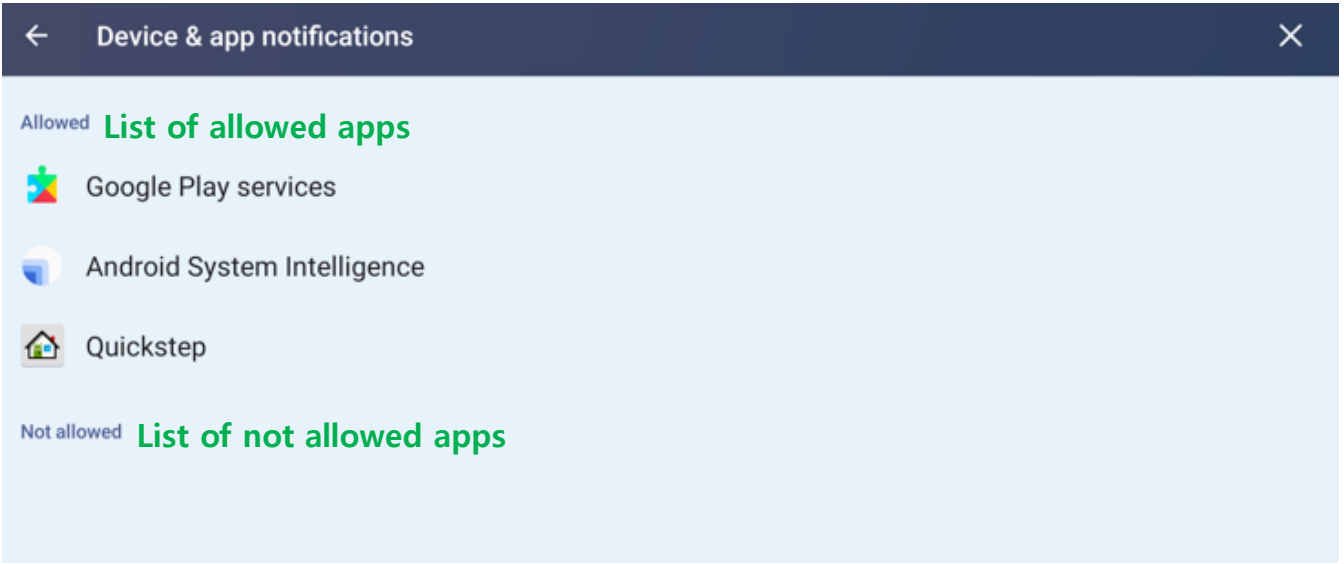
# 5.5 Notifications



## ② Conversation

- Conversation menu shows priority conversations and modified conversations.
- Bubbles entries allow some conversations to appear as floating icons over other apps.

## 5.5 Notifications



### ③ Privacy (Device & app notifications)

- In the Device & App Notifications menu, users can set up notification permissions for App to read notifications.
- Users can set up permissions such as notifications, SMS and messages, ringtones notifications, silent notifications in real time.

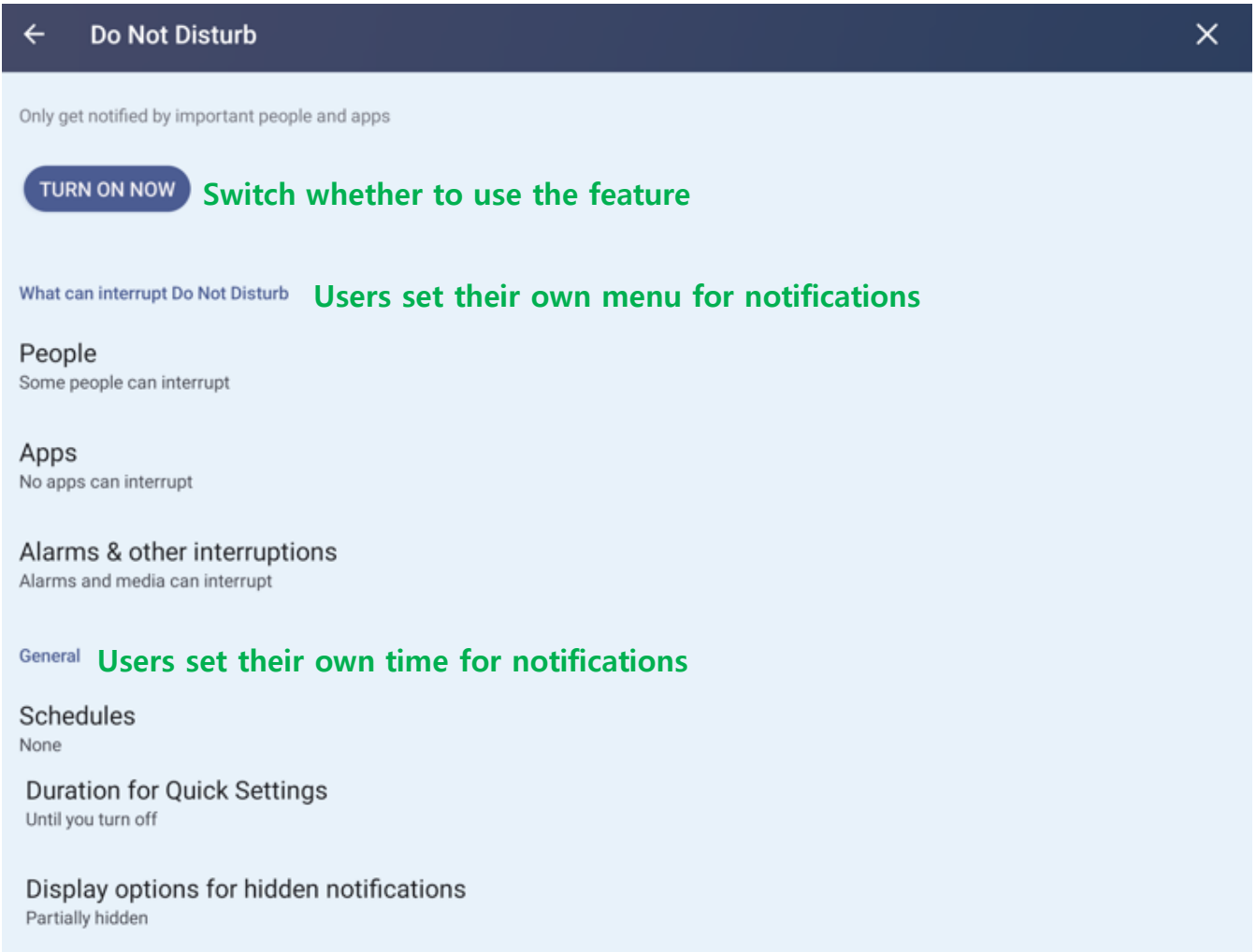
## 5.5 Notifications

### Notifications on lock screen

- Show conversations, default, and silent
- Hide silent conversations and notifications
- Don't show any notifications

#### ③ Privacy (Notifications on lock screen)

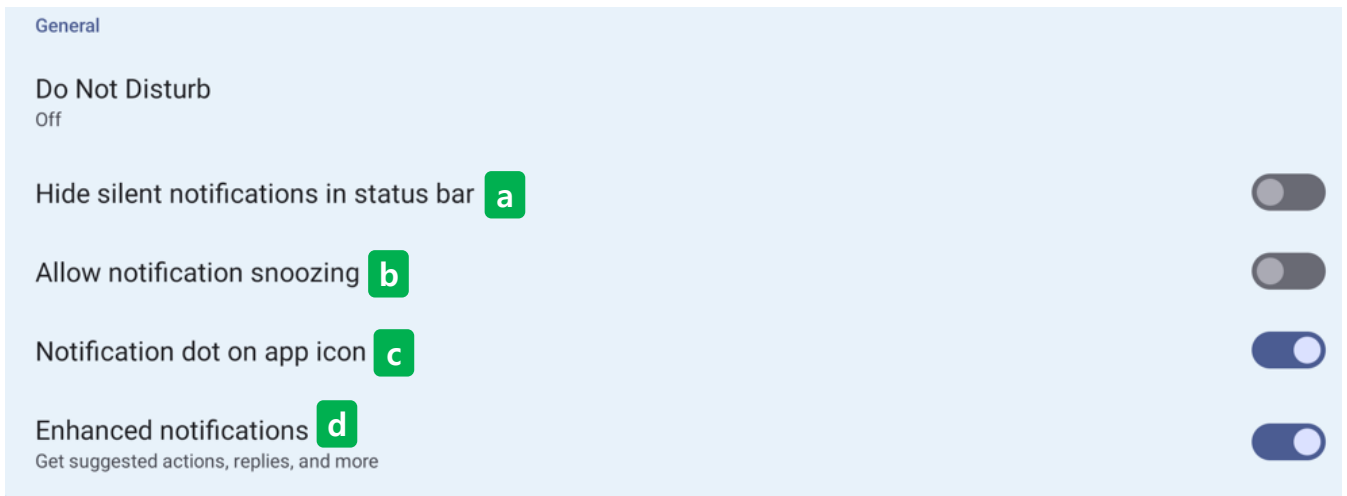
- Notifications On Lock Screen menu allows you to change the notification status to display on the lock screen.
- Select menu, show all conversations and default and silent notifications, hide silent conversations and notifications, select the Do not Show all Notifications.



#### ④ General (Do Not Disturb)

- The Do Not Disturb feature allows users to control which notifications appear on IFPD.
- Users can directly specify a menu with a notification through the exception menu.
- The Schedule feature allows users to enable the notification feature only at a set time.

## 5.5 Notifications



### ④ General

#### Ⓐ Hide silent notifications in status bar

- Hide silent notifications in status bar.
- The status bar appears when you drag a touch from the top to the bottom of the home screen.

#### Ⓑ Allow notification snoozing

- Allows users to receive the notifications users received once again.

#### Ⓒ Notification dot on app icon

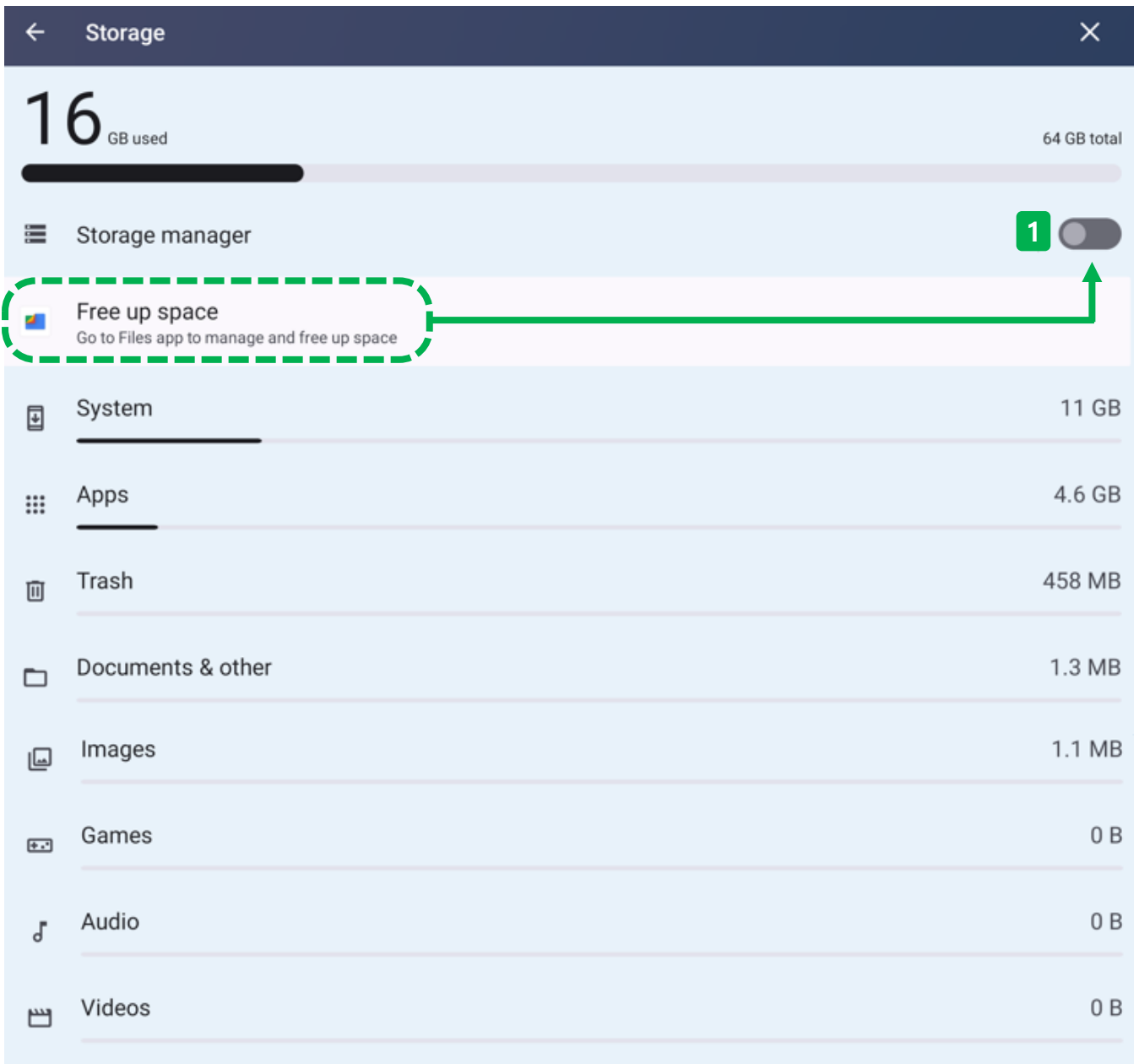
- When the notification comes, the app icon is displayed as a dot.

#### Ⓓ Enhanced notifications

- This feature displays recommendation and reply and summarizes notifications.
- Users can access the notification contents that contain personal information such as contact information and message. It is also possible to close or handle notifications, such as receiving a phone call and controlling the interference mode.

# 5. System setting

## 5.6 Storage



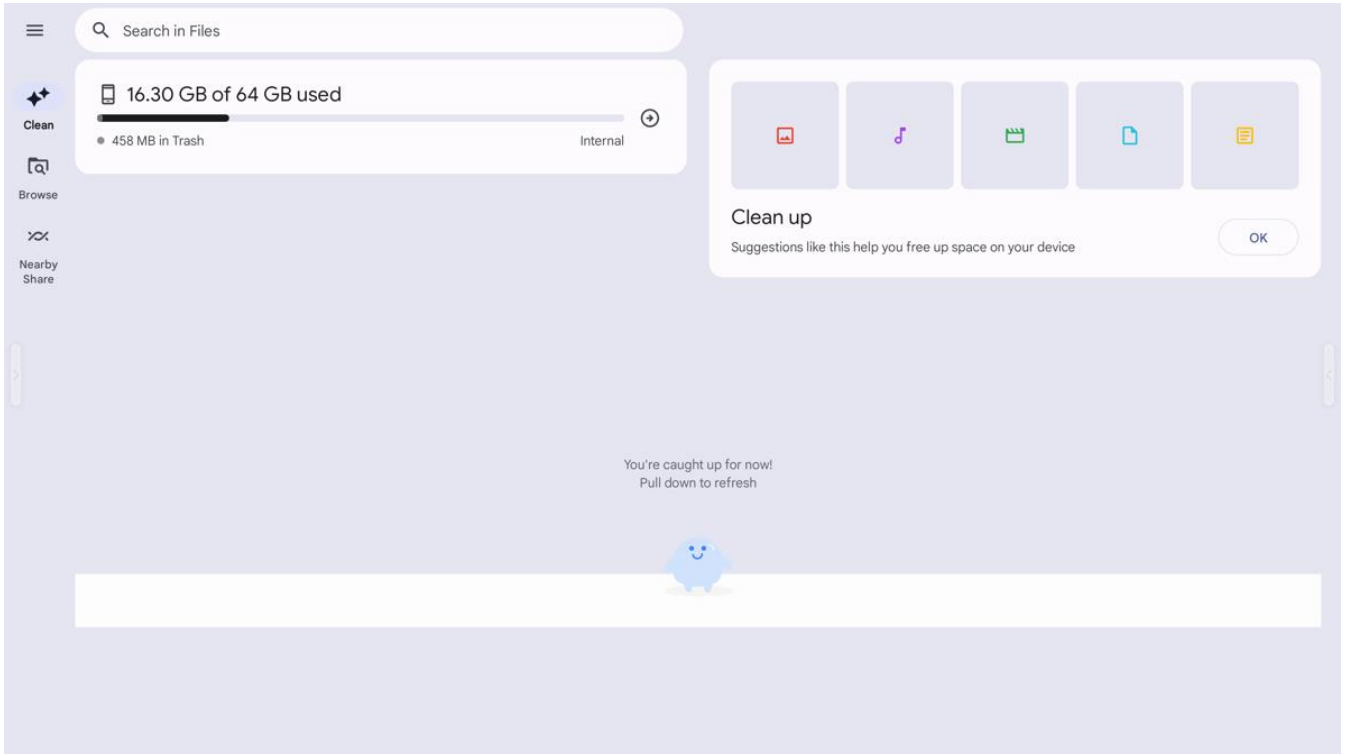
### ❖ Storage

- Users can see the amount of storage on IFPD Android system and a list of files divided into categories.

### ① Storage manager

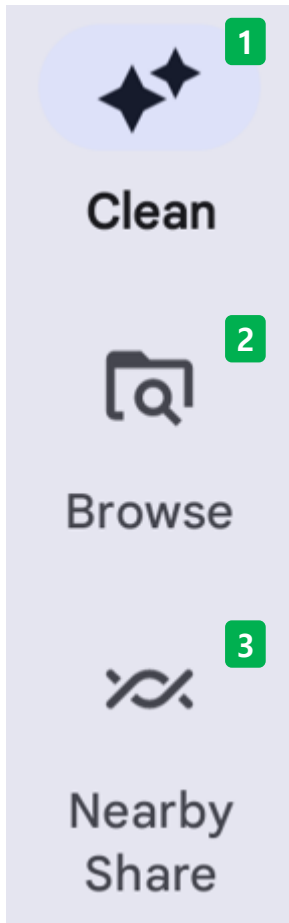
- Google-based systems support internal file organization, file search, and Nearby Share file sharing.

# 5.6 Storage



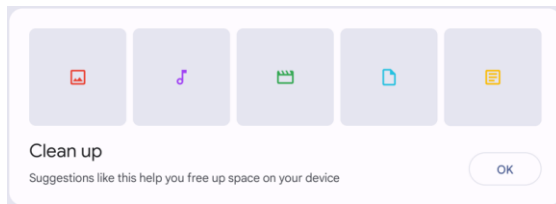
## ① Storage manager

- Google-based systems support internal file organization, file search, and Nearby Share file sharing.



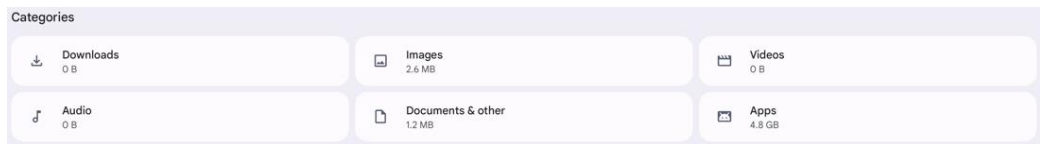
### ① Clean

- Internal storage cleanup, including deleting unnecessary files and clearing cache



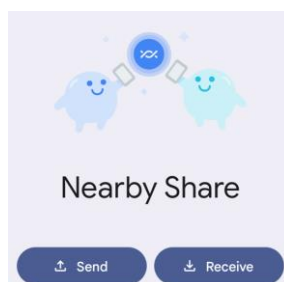
### ② Browse

- Divide into categories to view the list of files.



### ③ Nearby Share

- Bluetooth works with the electronic blackboard to share files such as photos, videos, and apps.



## 5. System setting

### 5.7 Sound & vibration



#### ❖ Sound & vibration

- Users can adjust the functions related to the sound of IFPD

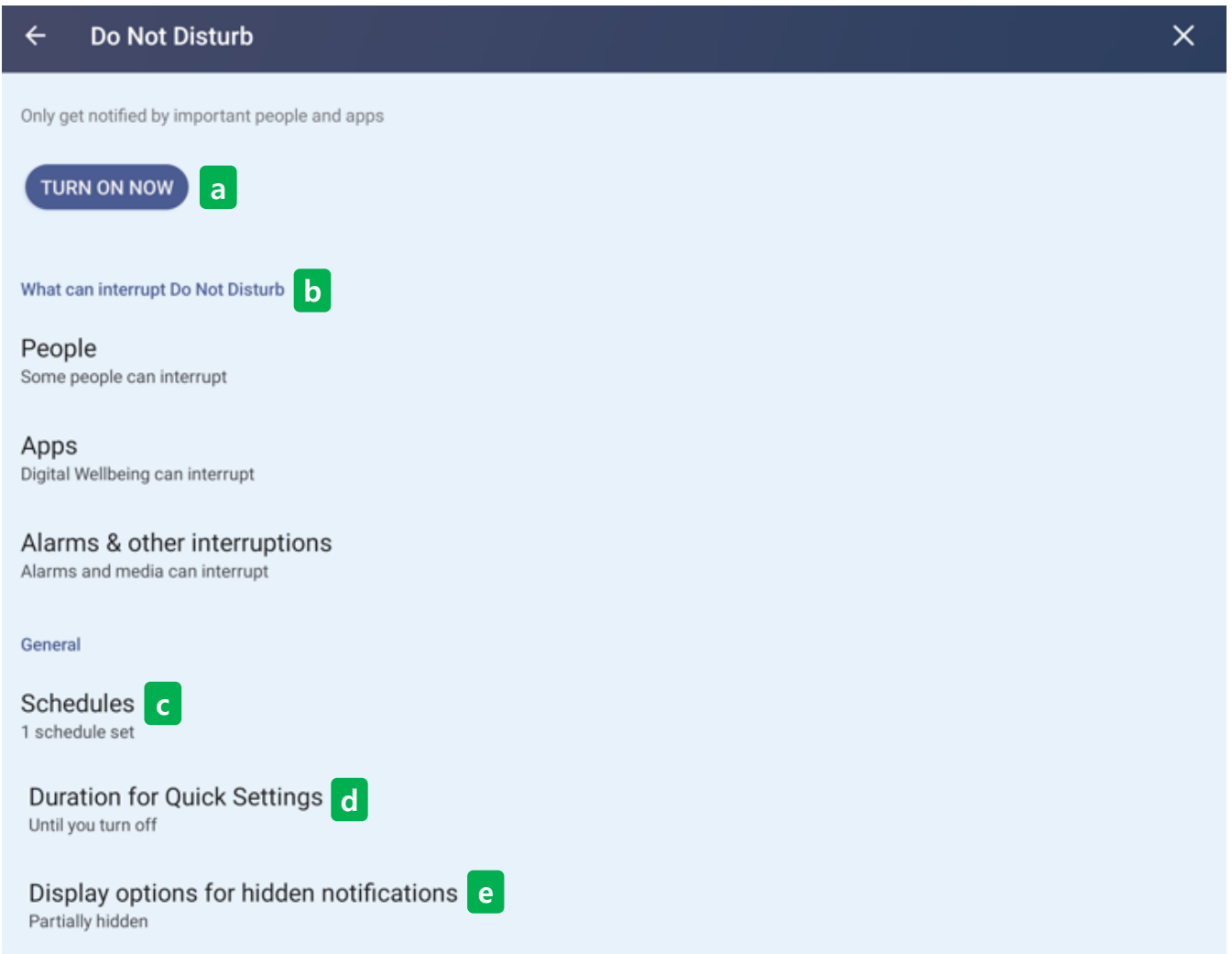
#### ❖ Volume bar

- ① Adjust IFPD default volume.
- ② Adjust the volume of incoming calls through IFPD.
- ③ Adjust the volume of the alarm function on IFPD.
- ④ Adjust the volume of the notification pane on IFPD.



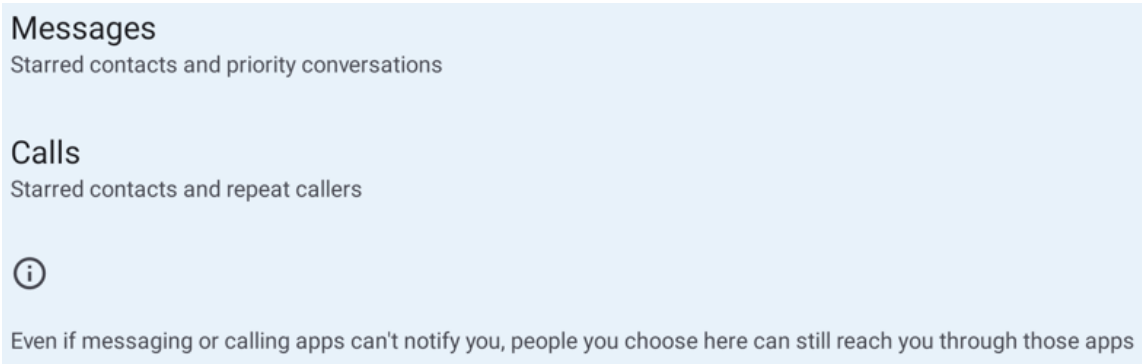
# 5.7 Sound & vibration

## ① Do Not Disturb



## Ⓐ Turn on now

- Click to turn the Do Not Disturb feature on or off.

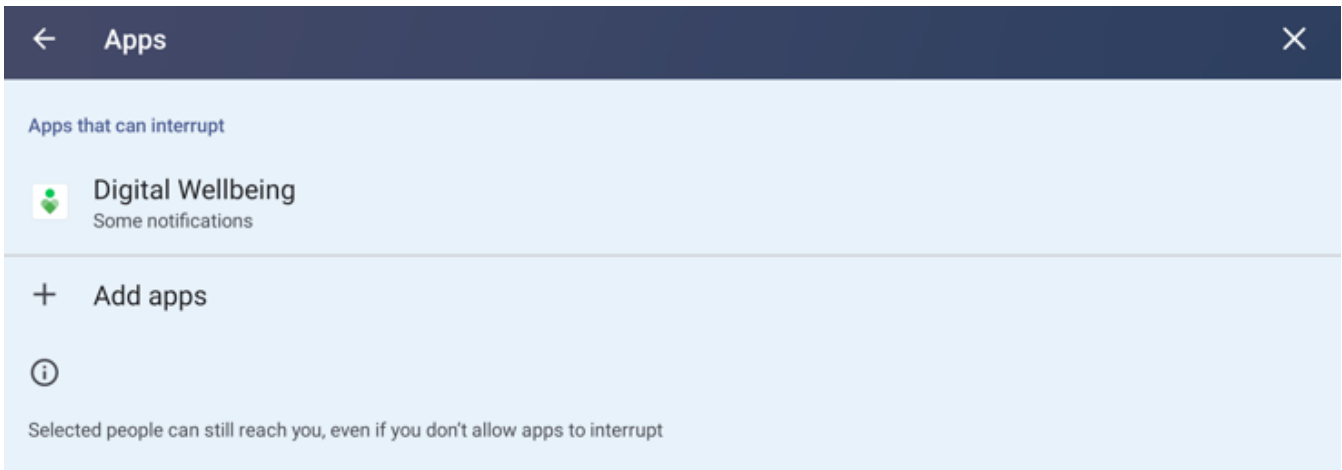


## Ⓑ What can interrupt Do Not Disturb

1. People (Messages)
  - Set the exception by selecting the following items: Starred contacts, Contacts, Priority conversations, All users, None..
2. People (Calls)
  - Calls : Set the exception by selecting the following items: Starred contacts, Contacts, All users, None.

# 5.7 Sound & vibration

## ① Do Not Disturb



## ② What can interrupt Do Not Disturb

### 3. Apps

- Add an exception app entry for the Do Not Disturb feature by selecting the "+ Add Apps" part.
- Notifications from apps added to the item will always work.

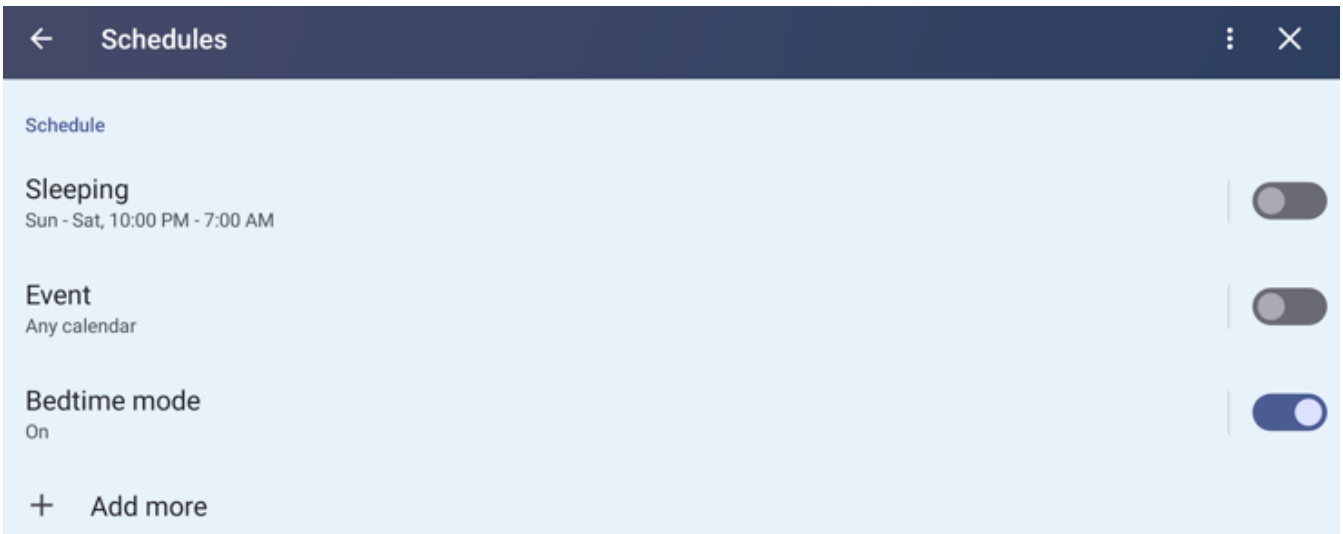


### 4. Alarms & Other interruptions

- Select the Other distractions item to specify as an exception to the Do Not Disturb feature.
- Alarm, media volume (media sound of video, game, etc.), touch sound (keyboard and other button sound), reminder, calendar etc

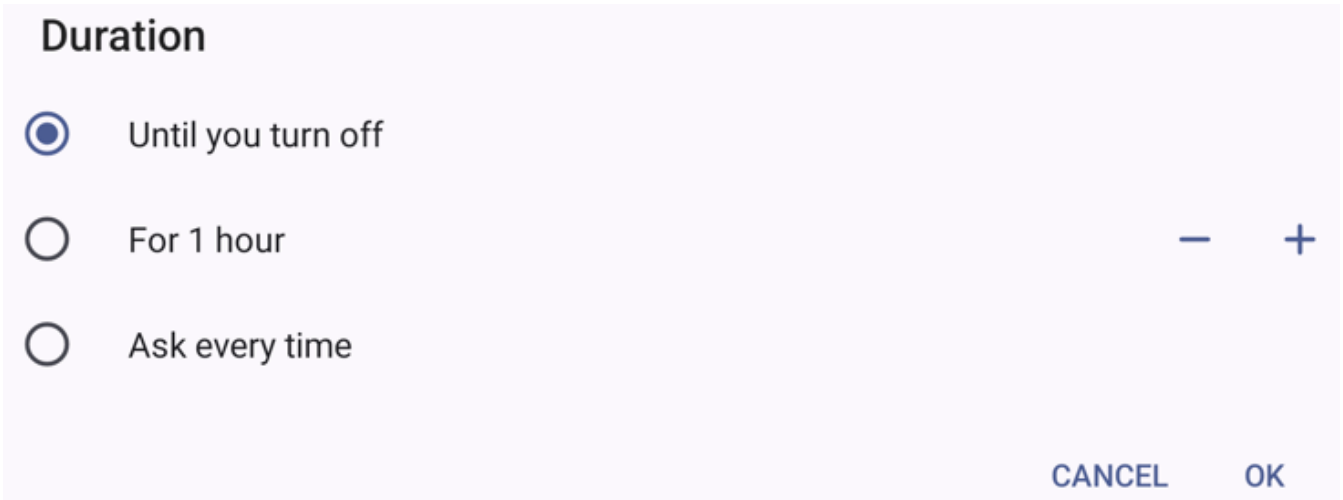
# 5.7 Sound & vibration

## ① Do Not Disturb



## ② Schedules

1. Sleeping
  - Disable notifications from acting during user-set times.
2. Event
  - Disable notifications from working on dates set by the user.
3. Bedtime mode
  - Disable behavior during user-set times (bedtime).
4. Add more
  - Set it to not work at a specific time, date, or when the app is in use.

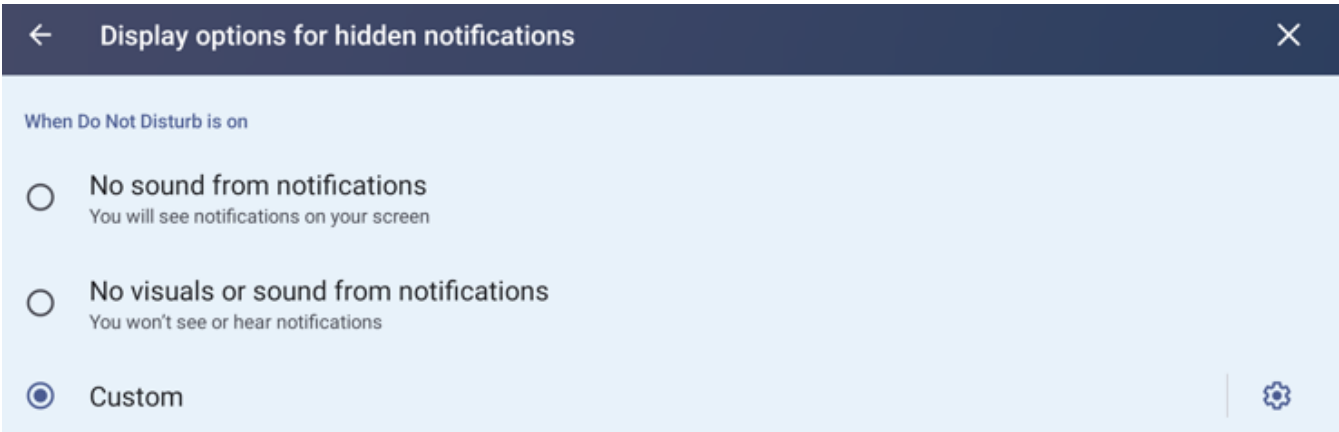


## ③ Duration for quick settings

- The Do not Disturb mode function works quickly with simple settings.
- Until users stop using it, users can always select three types of confirmation during the set time.

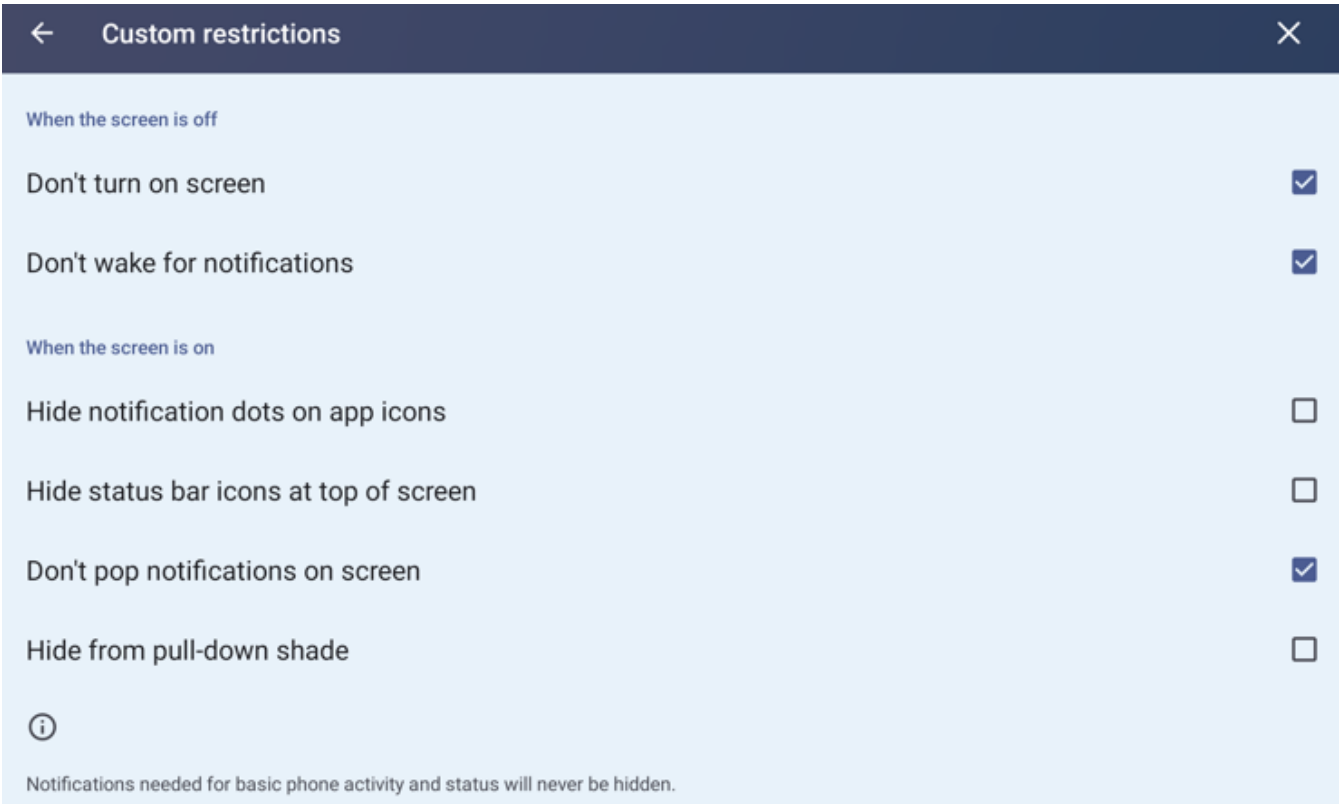
# 5.7 Sound & vibration

## ① Do Not Disturb



## ② Display options for hidden notifications

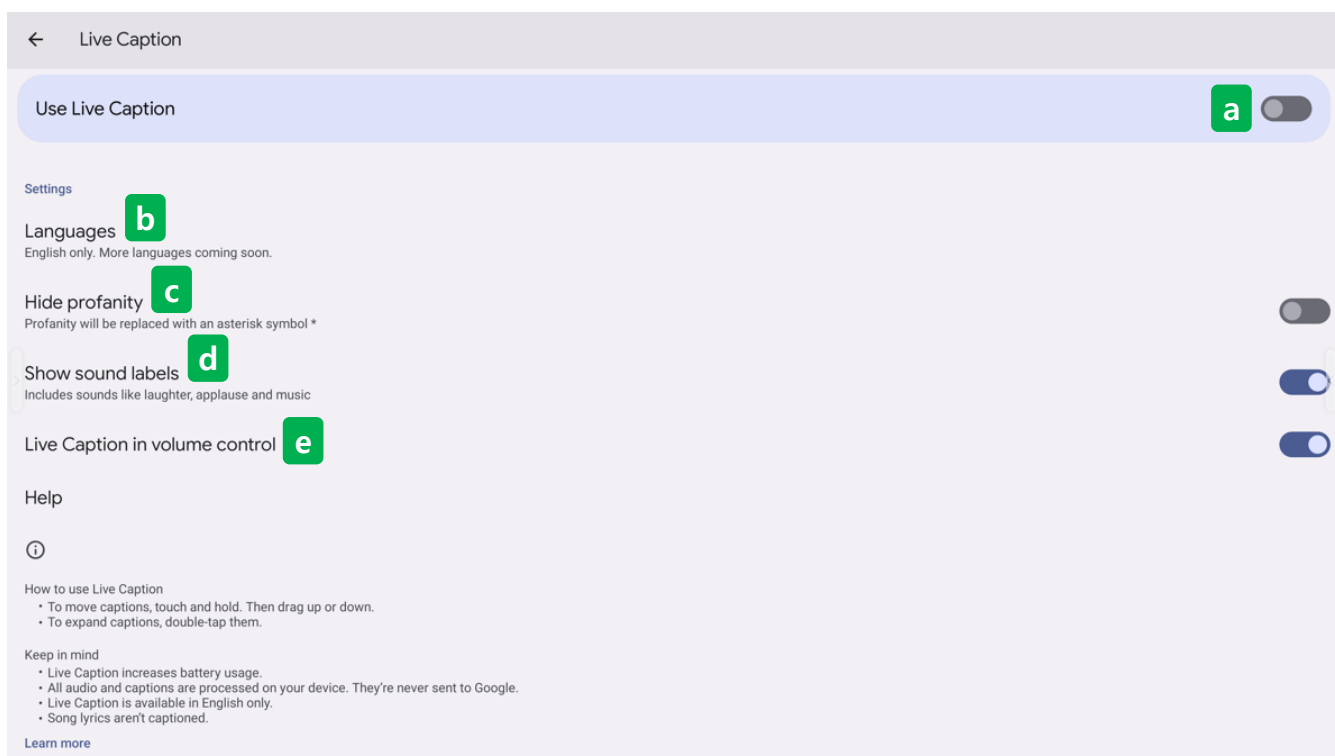
1. No sound from notifications
  - When checked, blocks notification sounds when using the Do Not Disturb feature.
2. No visuals or sound from notifications
  - When selected, blocks the display and sound of notifications when using the Do Not Disturb feature.



3. Custom
  - Sets the operational status of the Do Not Disturb mode function when the screen IFPD is turned off or on.
  - When the screen is off : Do not turn on the screen, do not turn on the screen when receiving notifications
  - When the screen is on: Hide notifications in the APP icon, hide the top status bar icon, no screen notification indicator. The user can choose directly, such as hiding it in the pull-down window.

## 5.7 Sound & vibration

### ② Live caption



#### Ⓐ Use live caption

- Click to turn real-time subtitles on or off.

#### Ⓑ Languages

- The current language is provided only in English, and other languages will be supported soon.

#### Ⓒ Hide profanity

- When the function is turned on, the swear words of the subtitles are replaced by the asterisk (\*).

#### Ⓓ Show sound labels

- Sounds such as laughter, applause, and music are also labeled.

#### Ⓔ Live caption in volume control

- Use real-time subtitles in the part that adjusts the volume size.

#### ① Feature supplement descriptions

##### 1. How to use real-time subtitles

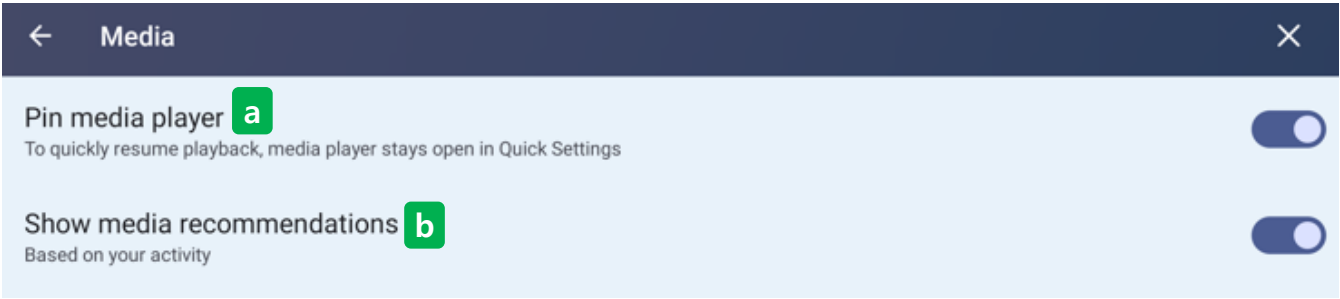
- To change the position of the subtitle, touch and hold. Then drag it up or down.
- Tap twice to spread the subtitles.

##### 2. caution

- Real-time subtitles increase data usage.
- All audio and subtitles are processed on the device and are never sent to Google.
- Real-time subtitles are available only in English.
- Subtitles for song lyrics are not generated.

# 5.7 Sound & vibration

## ③ Media

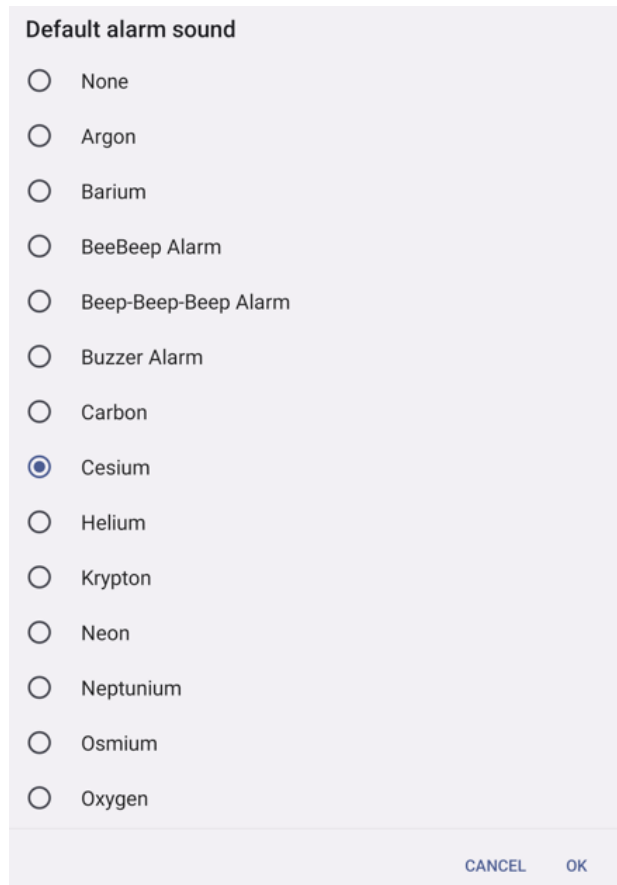
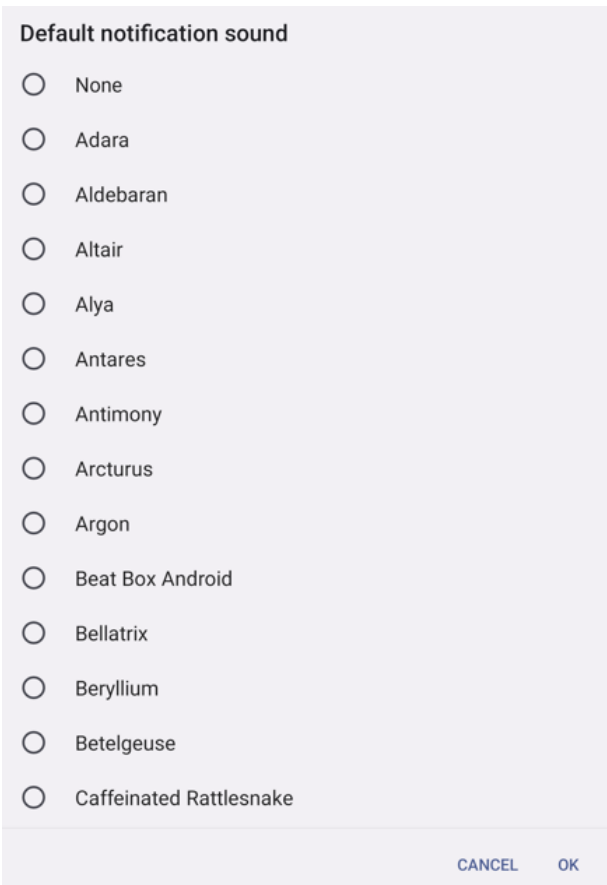


### Ⓐ Pin media player

- To quickly resume playback media player stays open in Quick Settings.

### Ⓑ Show media recommendations

- Show media recommendations. Receive recommendations based on a user's activity.



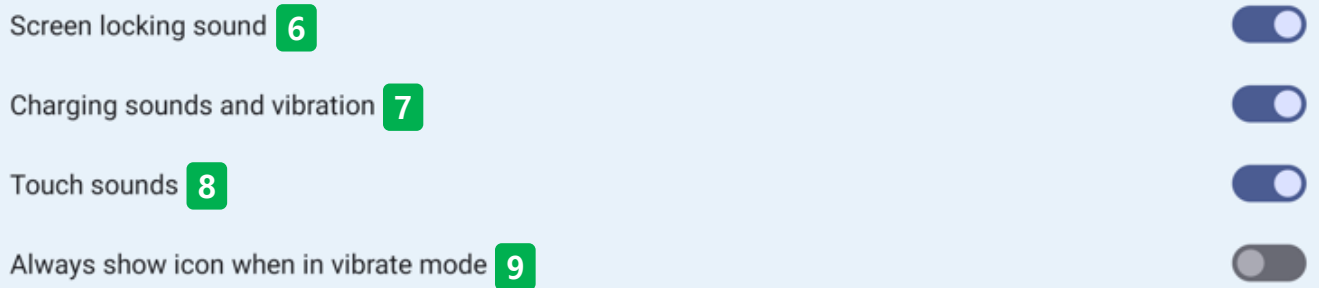
## ④, ⑤ Default notification sound & Default alarm sound

- The notifications and alarm sounds are changed to the sound users want.

### ❖ Default sound

- Sets the sound that comes out when the notification and alarm functions are activated.

## 5.7 Sound & vibration



### ⑥ Screen locking sound

- Set the sound operation of the screen lock function.

### ⑦ Charging sounds and vibration

- Set the charging sound and vibration function operation.

### ⑧ Touch sounds

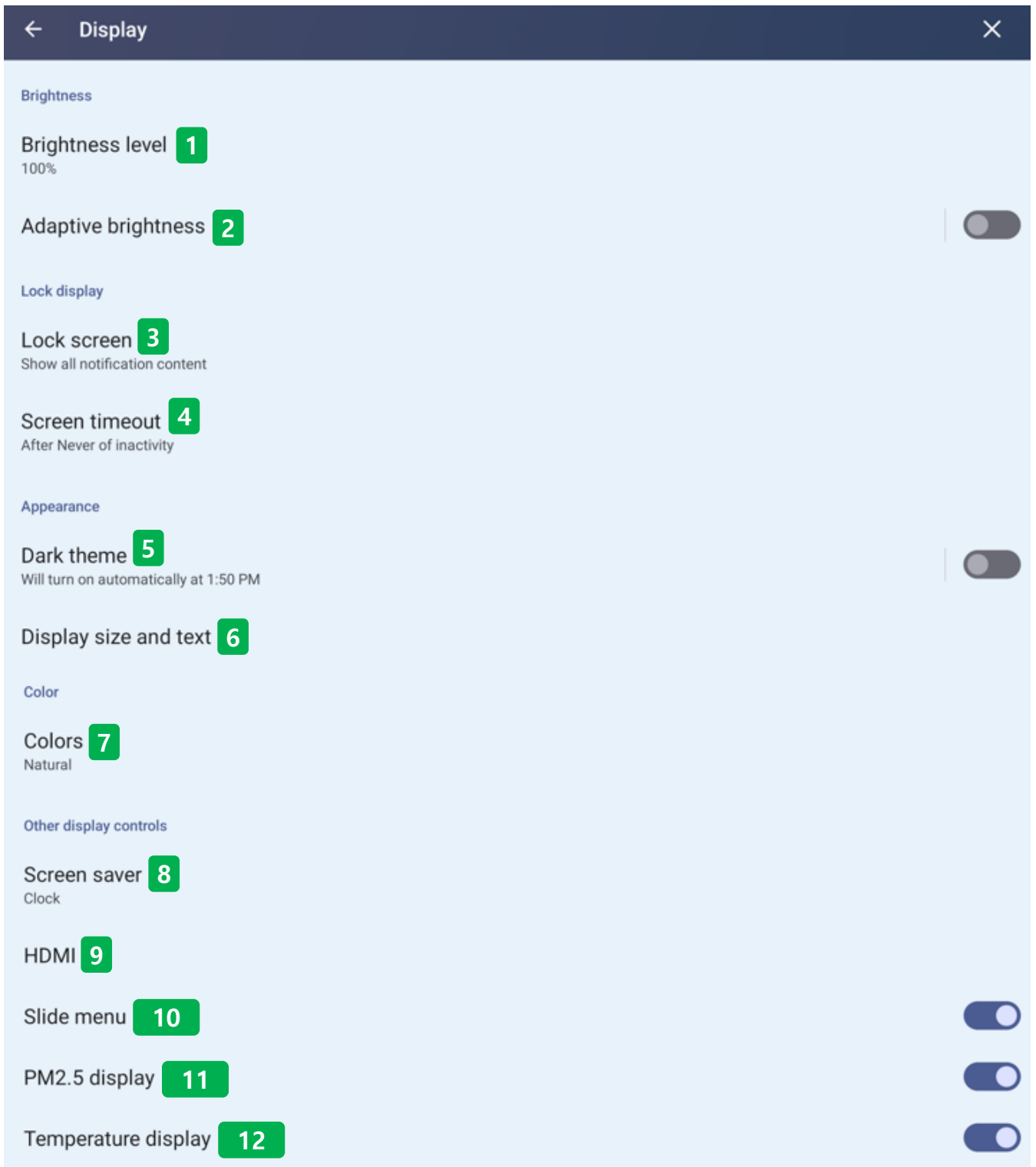
- On the Android screen, set the touch sound operation when touching.

### ⑨ Always show icon when in vibrate mode

- Sets whether to always show as an icon when in vibrate mode.

## 5. System setting

### 5.8 Display

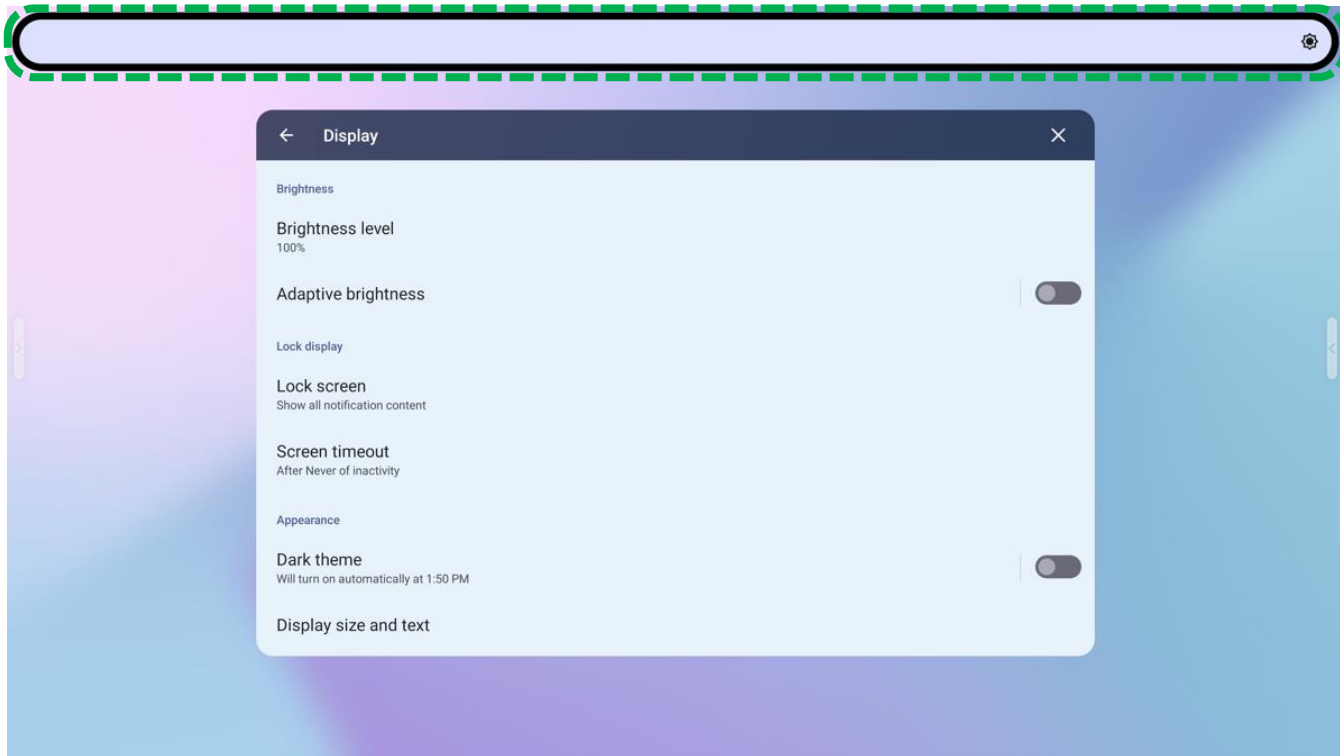


#### ❖ Display

- In the display settings, users can set the screen brightness, lock screen, Android UI color and font, HDMI out resolution, side menu, PM2.5 index, and product temperature.

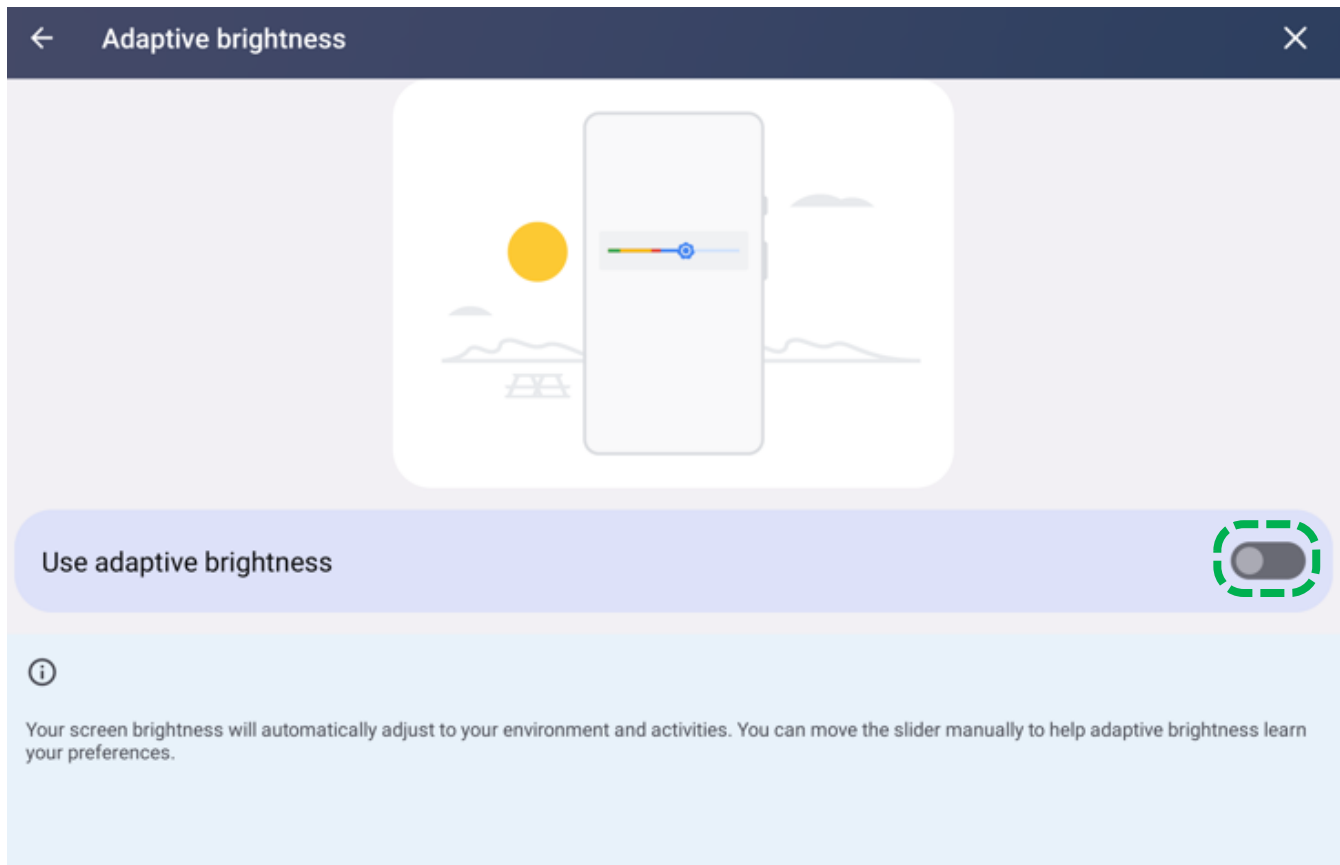


# 5.8 Display



## ① Brightness level

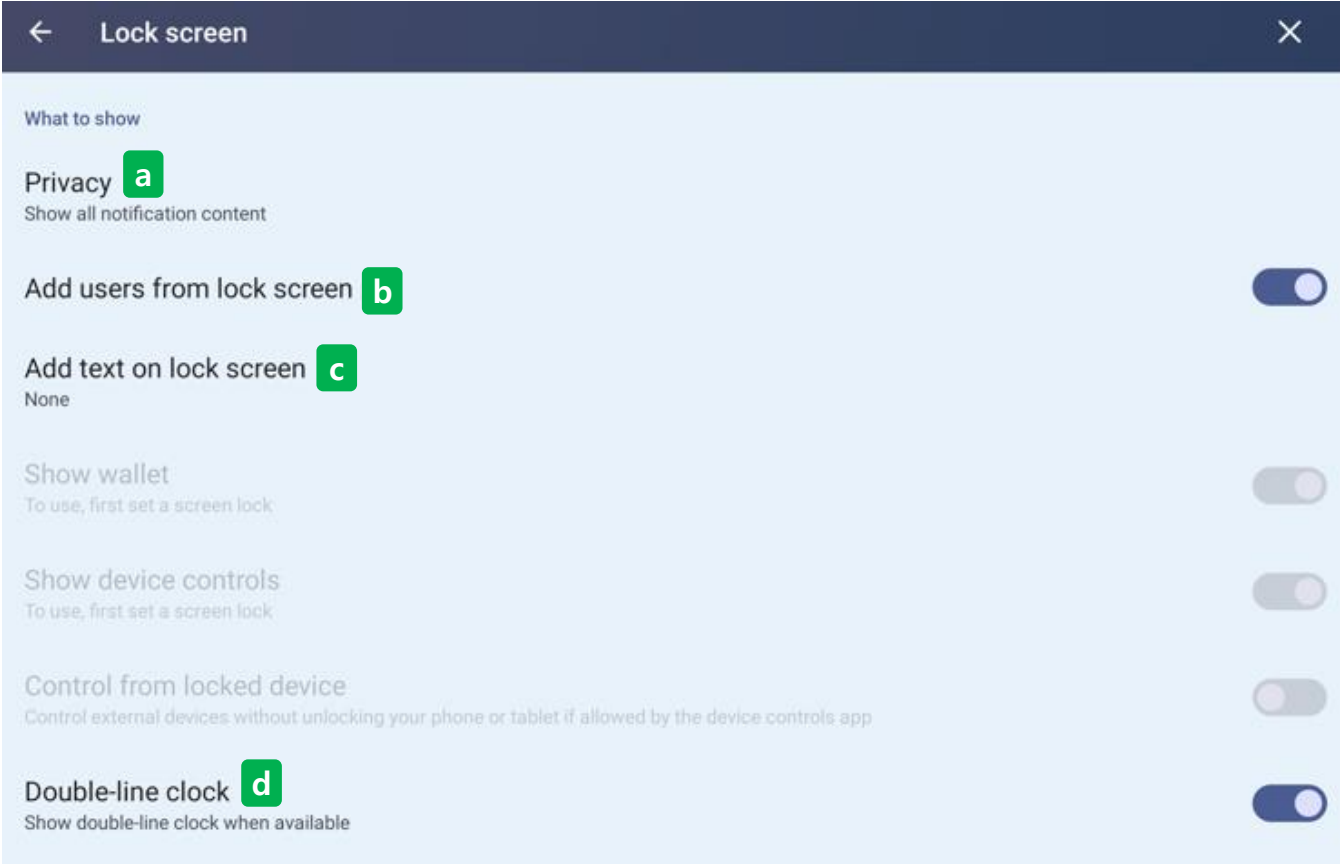
- When touch the part, a window will appear where can adjust the brightness of the upper part of IFPD screen.
- The brightness can be adjusted between 0 and 100%. (The initial value of IFPD is set to 80%.)



## ② Adaptive brightness

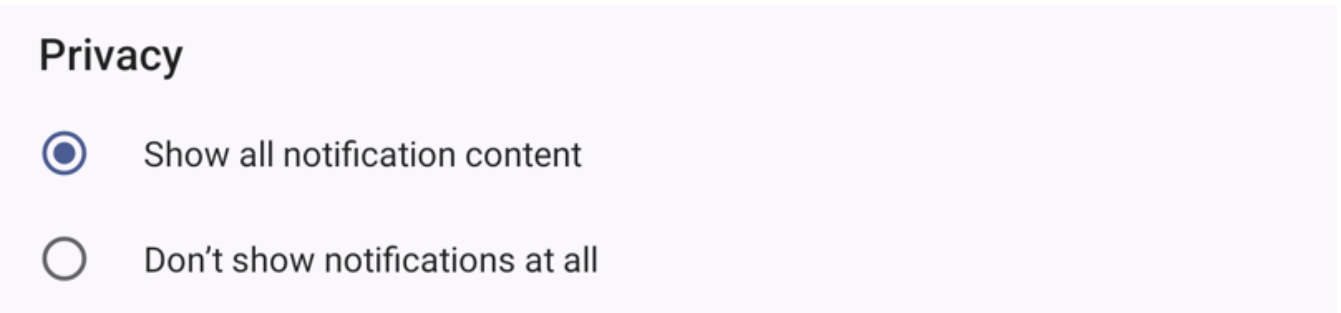
- The brightness of IFPD changes automatically to match the ambient brightness when turn it on with the automatic brightness adjustment feature.

# 5.8 Display



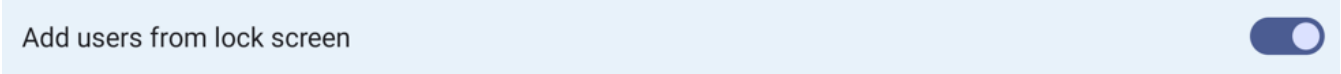
### ③ Lock screen

- Set the display methods such as images, letters, and clocks that appear when IFPD is locked.



### Ⓐ privacy

- When select the Privacy menu, users choose whether to display notifications IFPD is on the lock screen.



### Ⓑ Add users from lock screen

- When turn on the feature, users can add a Google user account to IFPD in the lock screen state.

## 5.8 Display

### Add text on lock screen

E.g., Joe's Android.

CANCEL SAVE

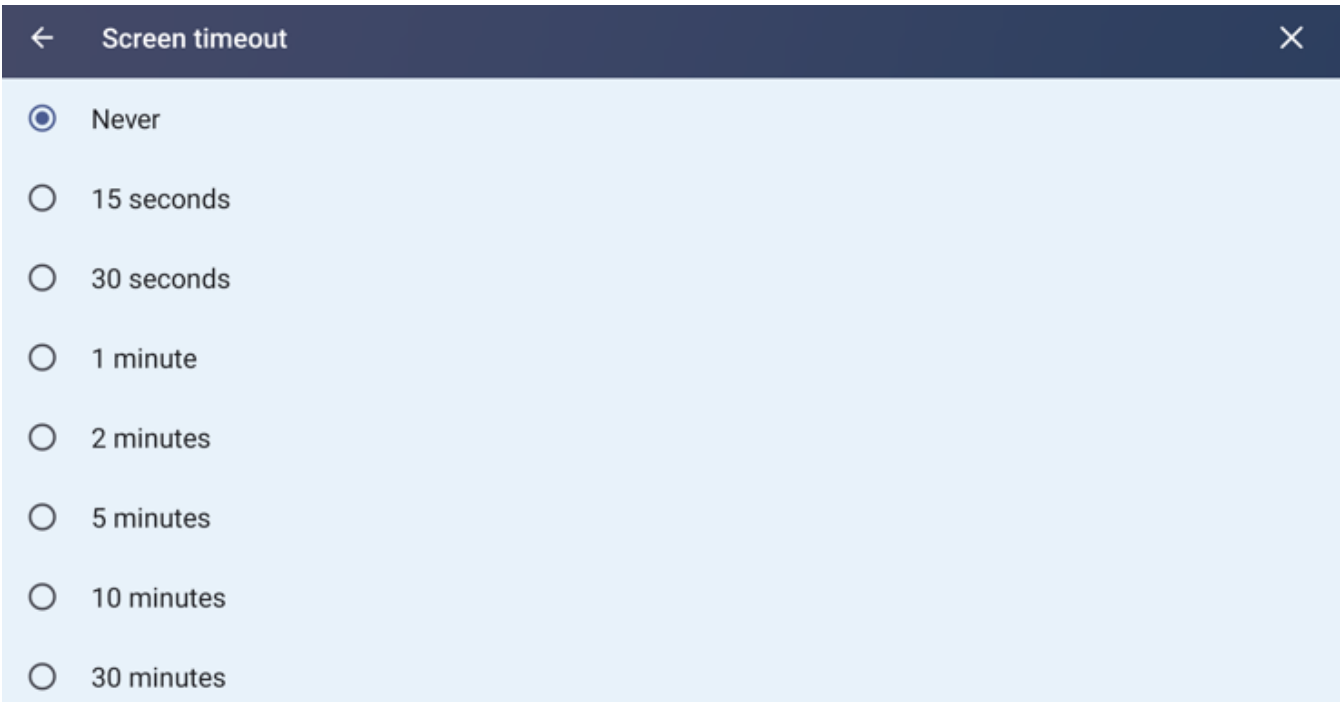
#### ③ Add text on lock screen

- Type the letters that appear at the bottom of the screen when the screen is locked. These letters appear at the bottom of the screen when set.



#### ④ Double-line clock

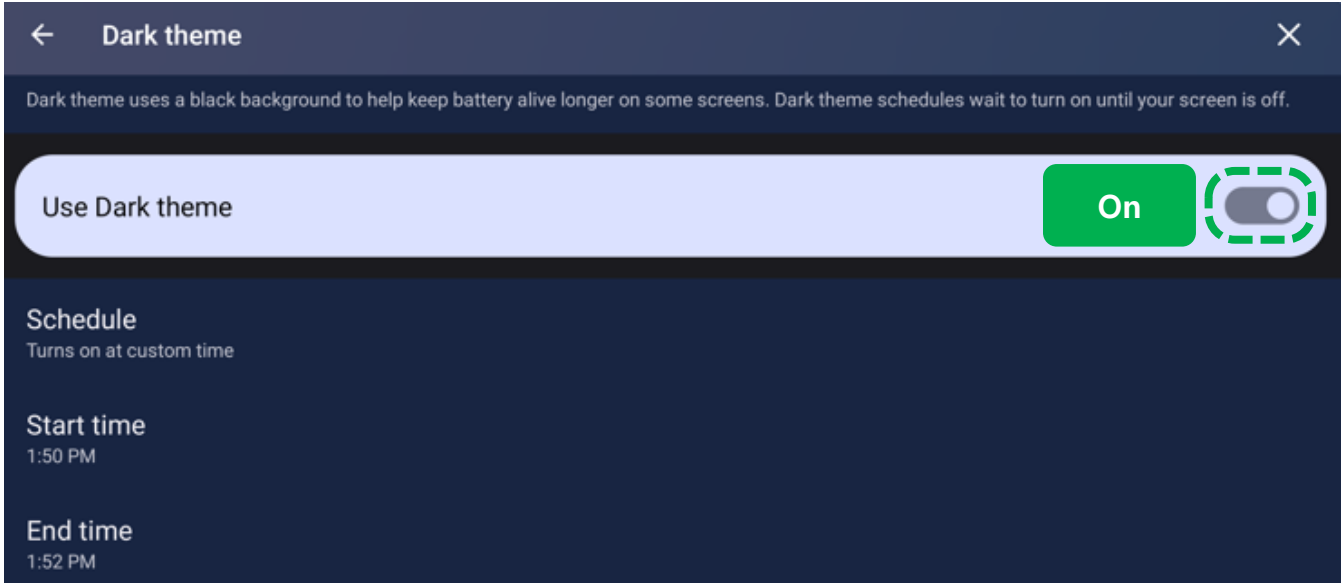
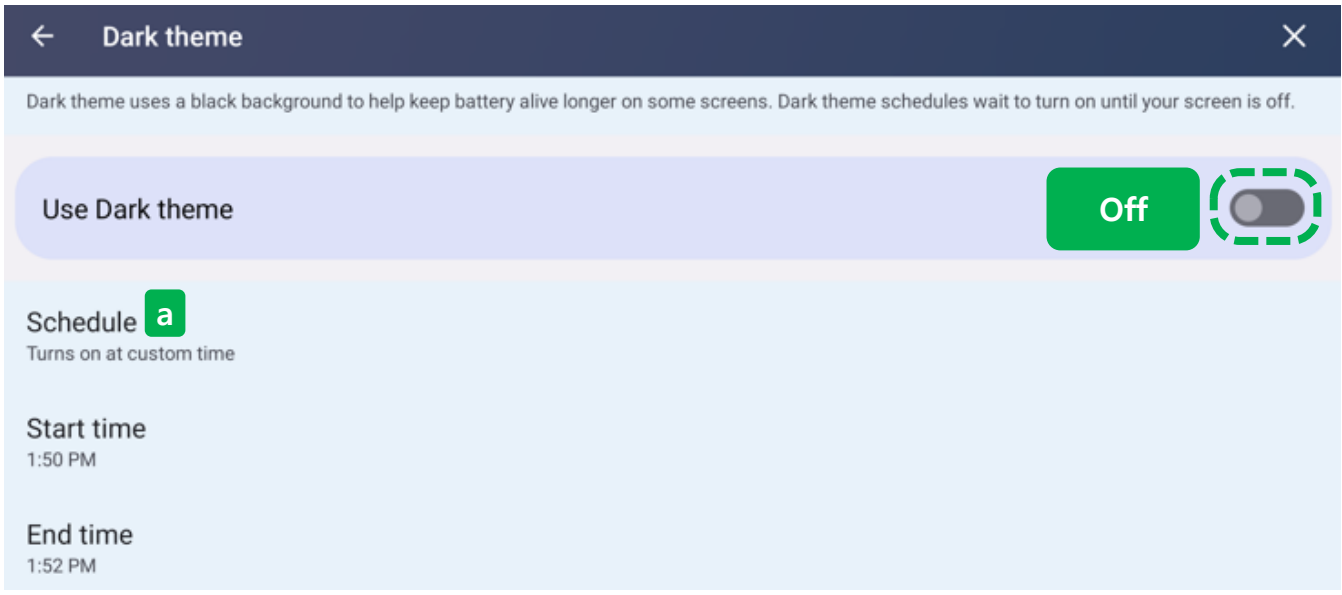
- Sets whether the time display that appears when the lock screen state is displayed in two lines.



#### ④ Screen timeout

- If IFPD is not used for the set time, it automatically switches to the locked screen state. (only the screen is turned off)

## 5.8 Display



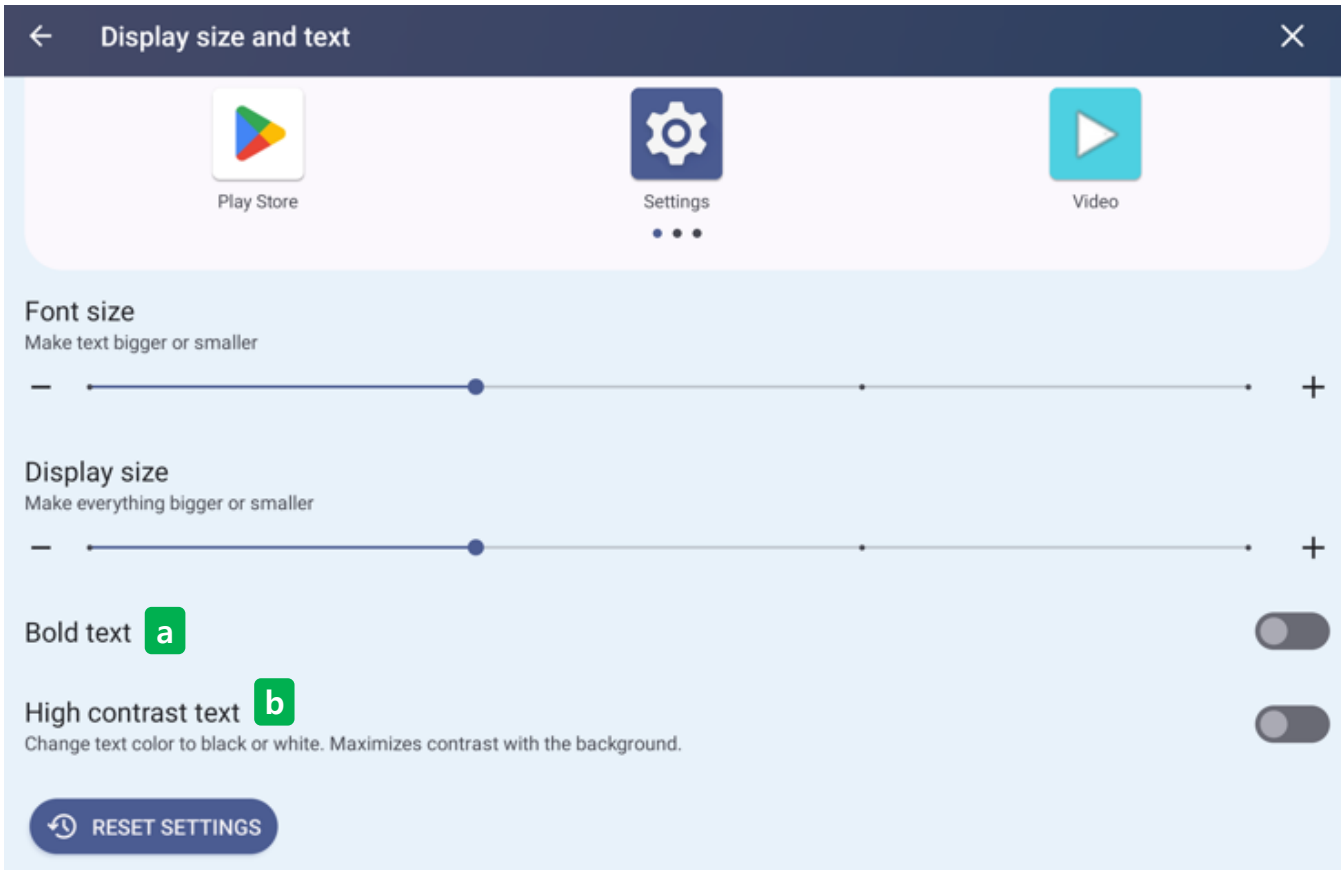
### ⑤ Dark theme

- When using a dark theme, IFPD Android UI will be changed to dark color as a whole.

### ① Schedule

- If users set the dark theme schedule, the function will automatically turn on when you switch to the lock screen after the set time.
- If the time is set for the function to turn on and off, the function is turned off when go to the lock screen after the set time.

# 5.8 Display



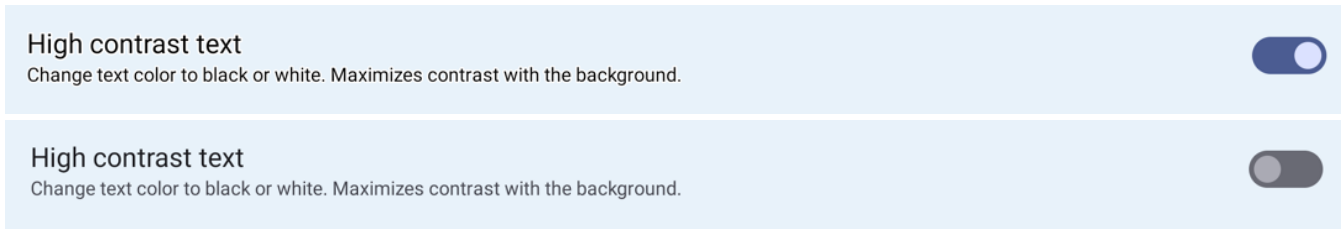
## ⑥ Display size and text

- Adjust the overall UI and font size, boldness, and more as seen on the Android screen.



## ⑦ Bold text

- Choose whether to bold the font on the Android screen.



## ⑧ High contrast text

- Change the text color to black or white. Maximizes contrast with the background.

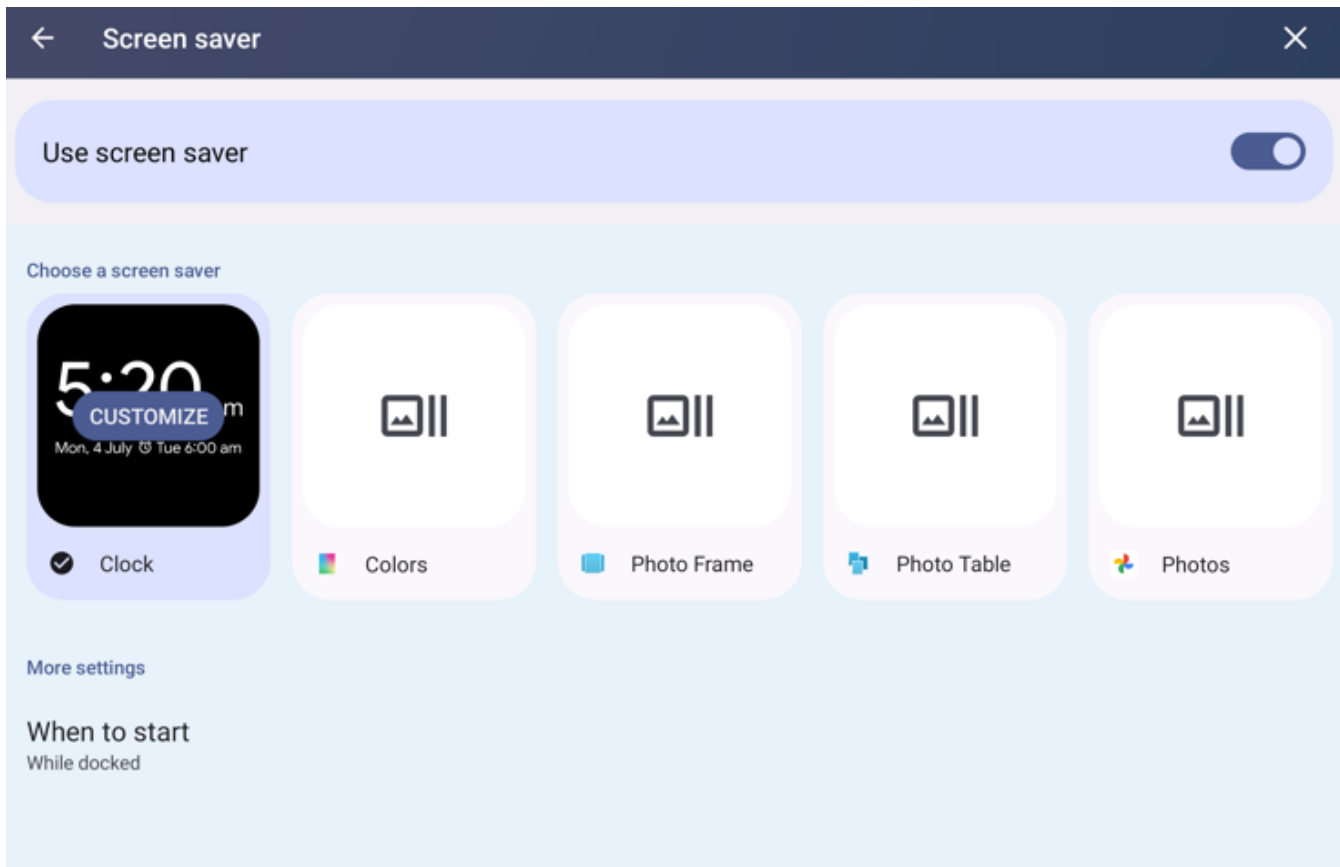


## 5.8 Display



### ⑦ Color

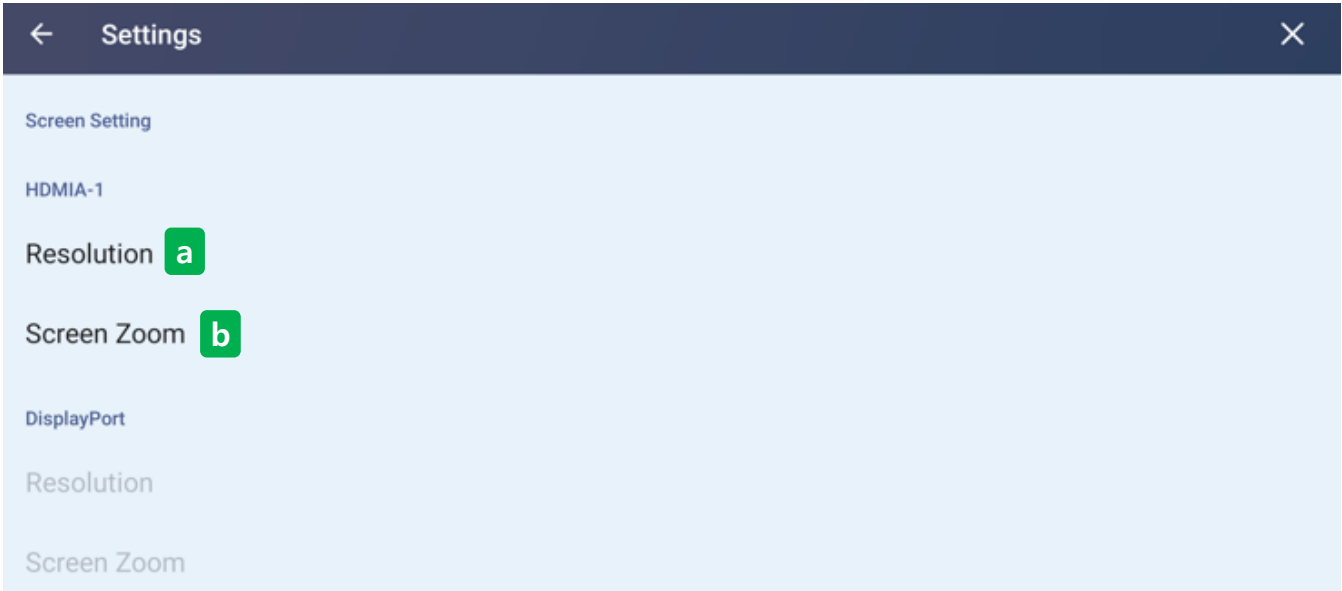
- Check the degree of screen color on IFPD.



### ⑧ Screen saver

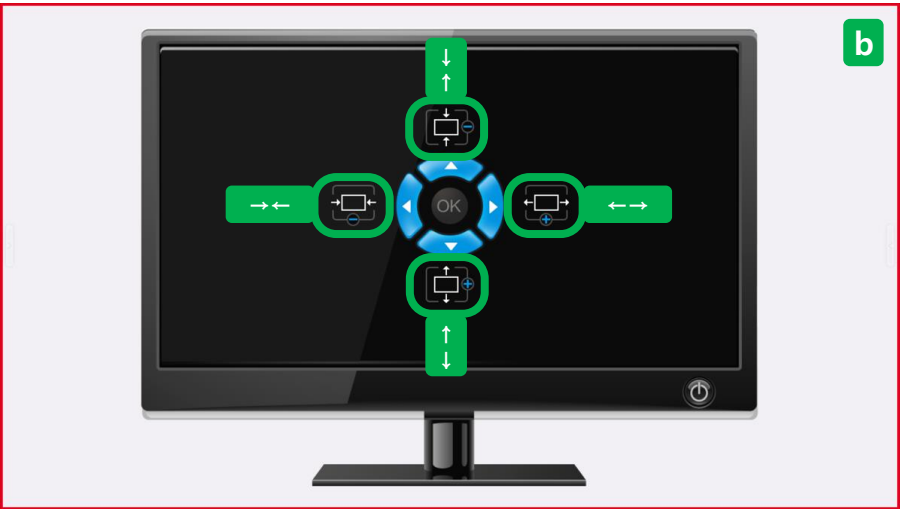
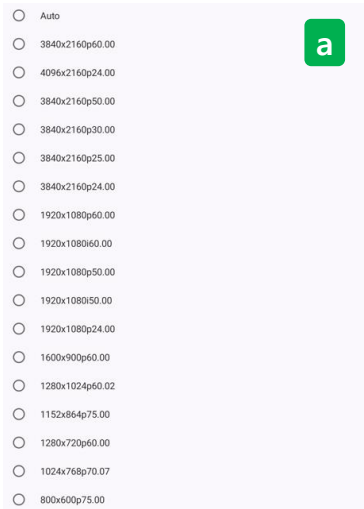
- Users can set how the lock screen status is displayed.
- Users can set the topics, such as time, color, photo frame, photo table, photo, etc.

# 5.8 Display

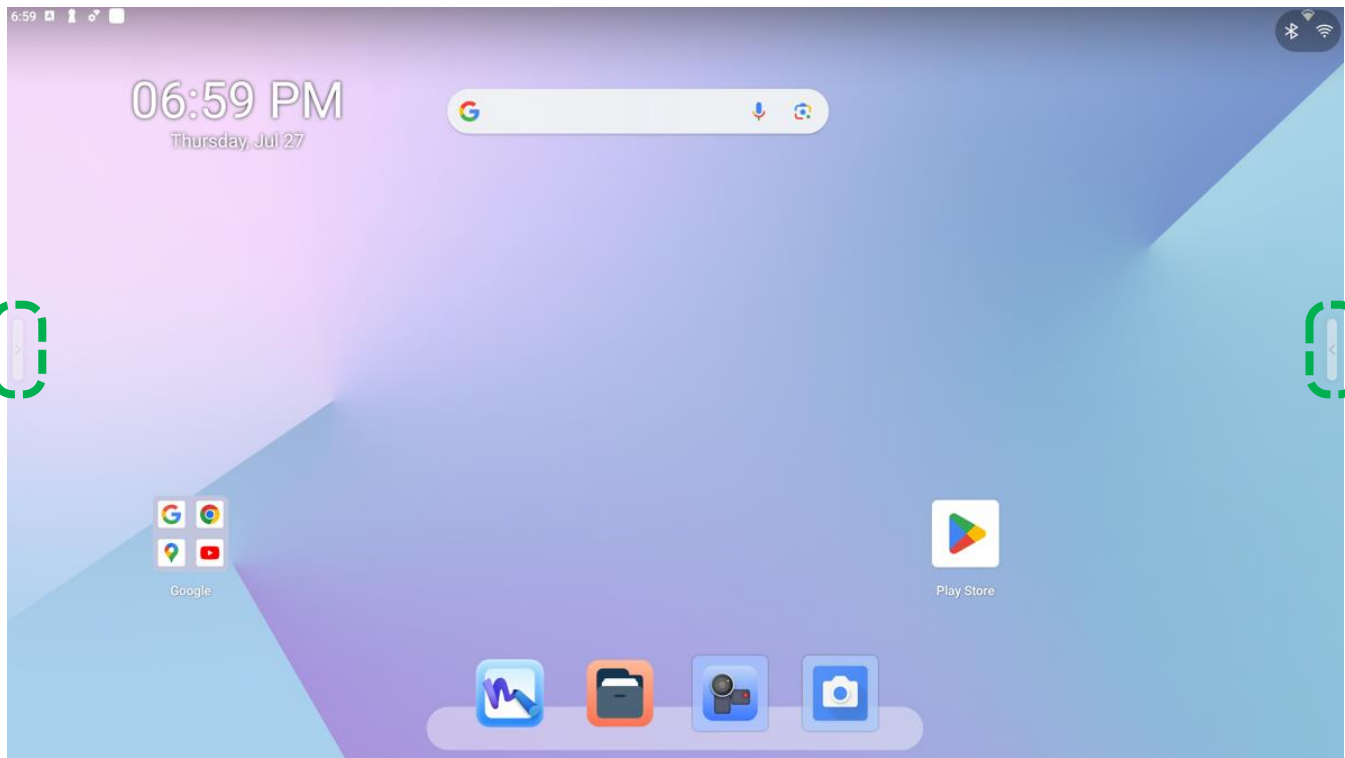


## ⑨ HDMI

- Resolution : The resolution output of HDMI and Type-C OUT terminals can be set.
- Screen Zoom : Users can zoom in or out of the screen connected by the HDMI, TPYE-COUT terminals.

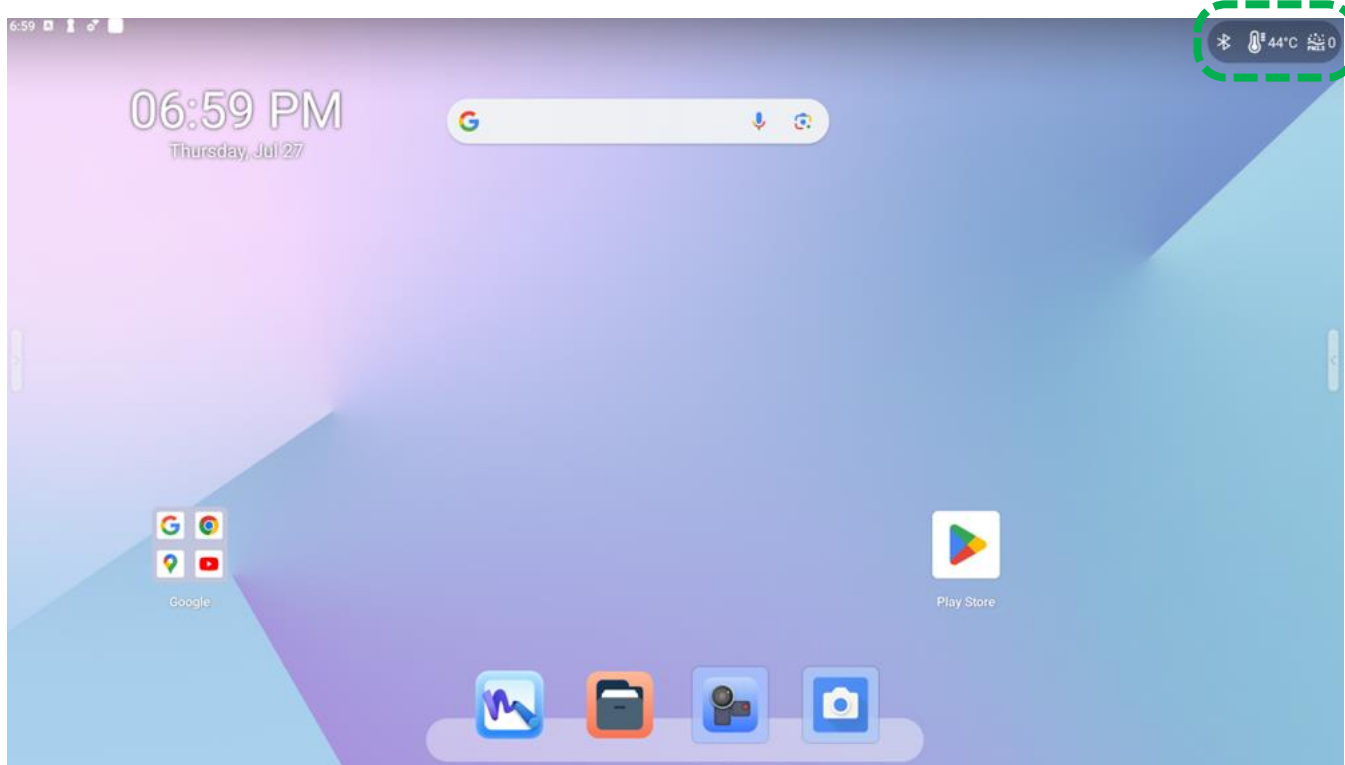


# 5.8 Display



## ⑩ Side menu

- When the function is turned on, the Menu Bar appears on the left and right sides of the screen.
- Please refer to the Side Menu menu for detailed features in Side Menu.



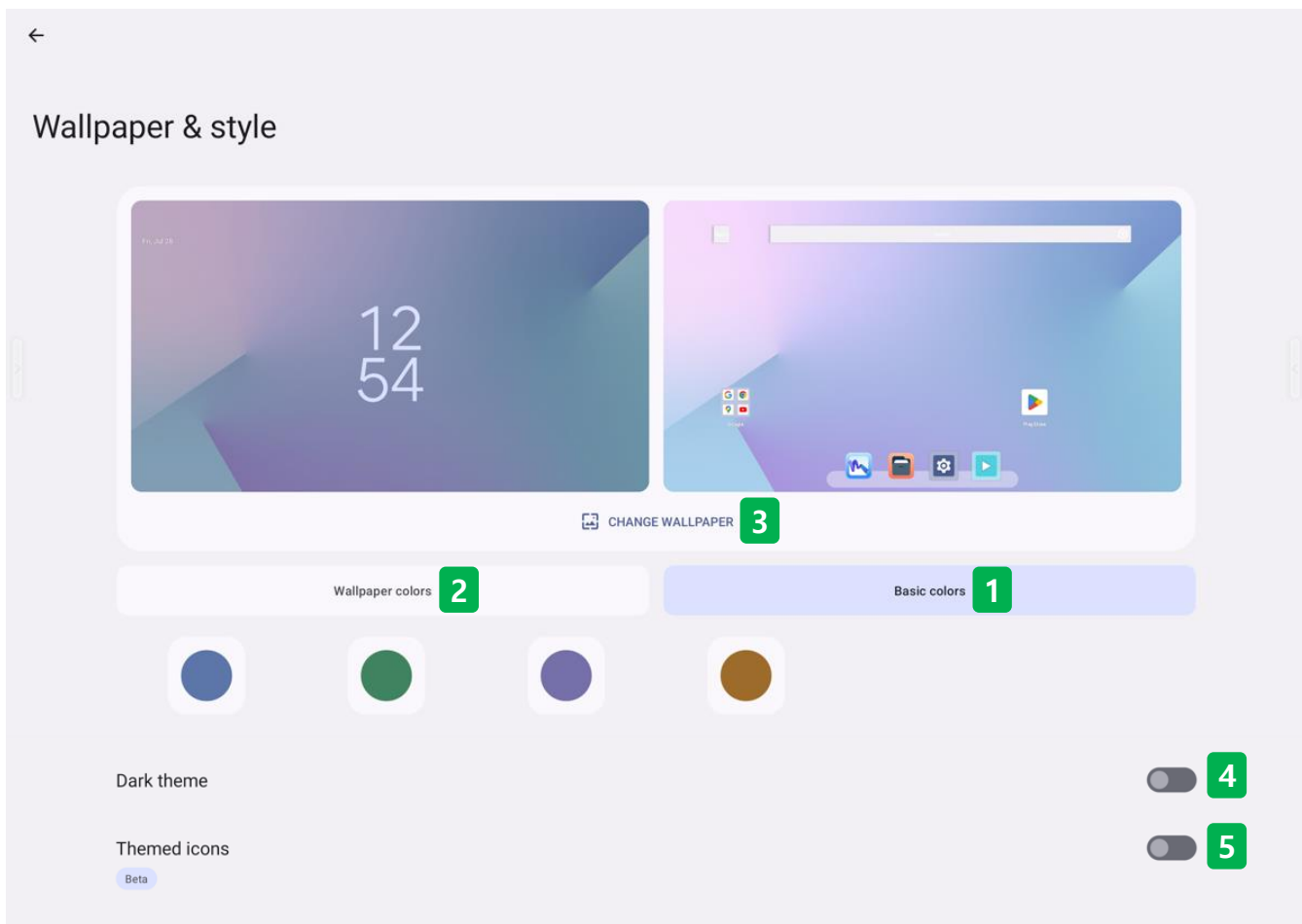
## ⑪, ⑫ PM2.5 & Temperature display

- If the function is turned on, the PM2.5 index and IFPD temperature will be displayed on the top right of the HOME screen.



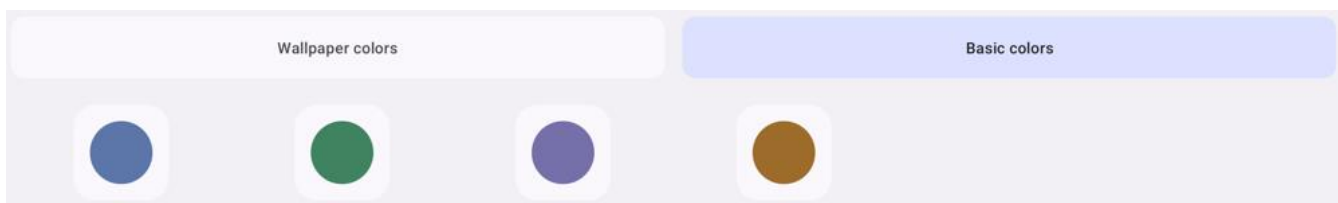
## 5. System setting

### 5.9 Wallpaper & style



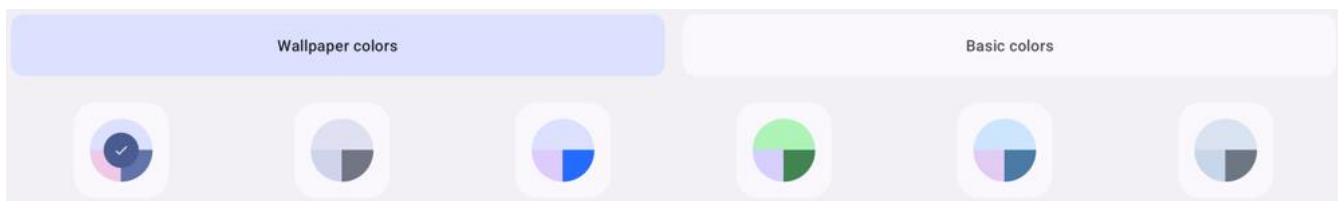
#### ❖ Wallpaper

- Users can set the wallpaper of the Android Home screen and the lock screen.



#### ① Basic colors

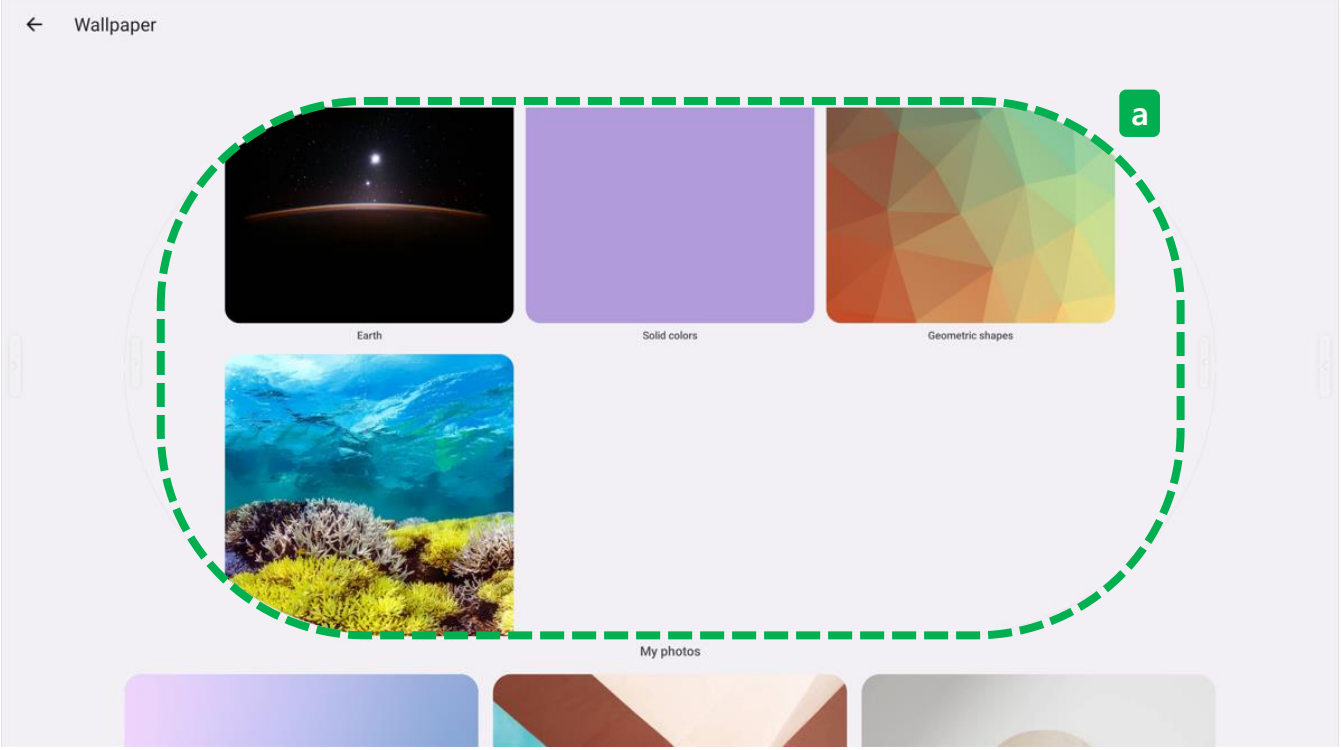
- Change the Android UI color array to the default monochrome structure.



#### ② Wallpaper colors

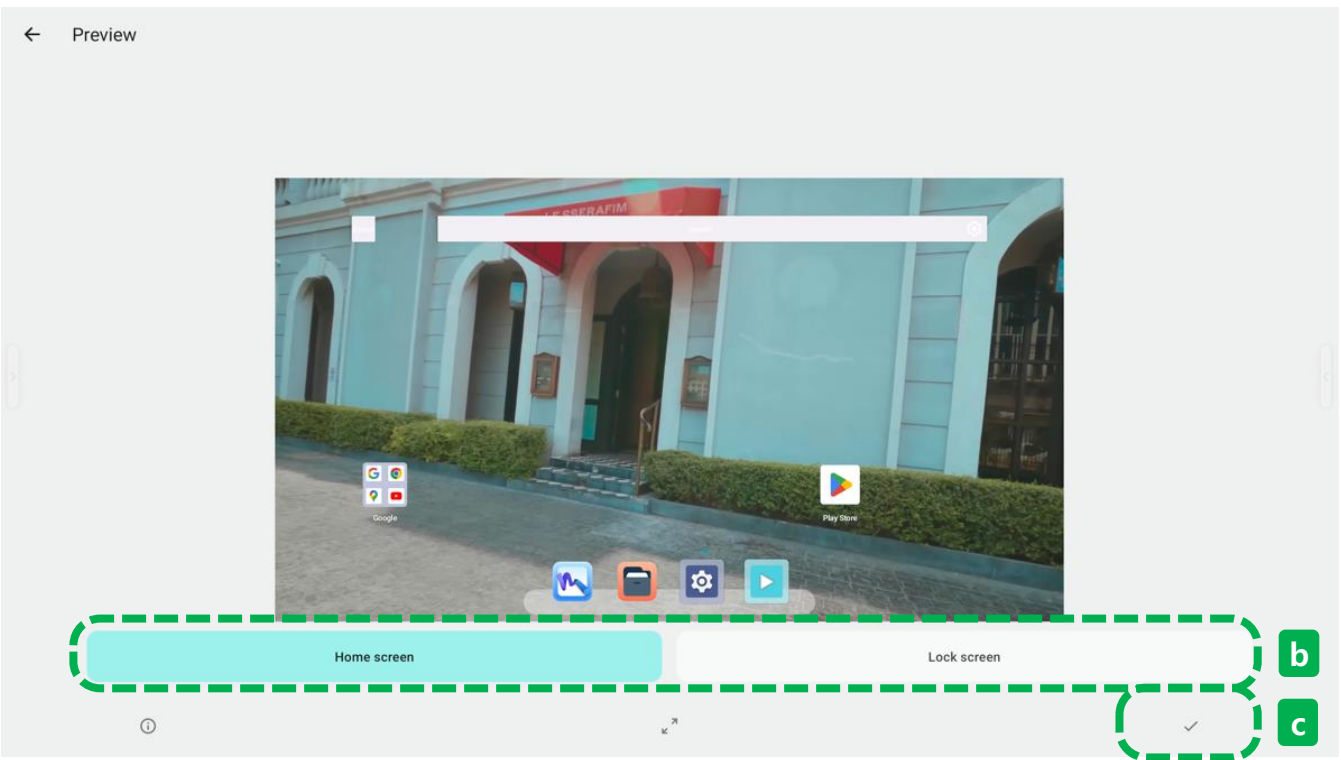
- Change the Android UI color array to a three-color structure.

# 5.9 Wallpaper & style



### ③ Change wallpaper

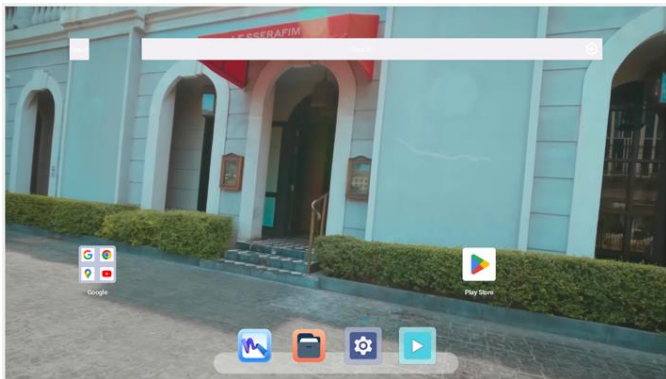
- When clicking the change wallpaper menu, users can change by selecting an image that supports the system by default.
- On-device wallpapers, cityscapes, Life, Textures, Landscapes, Art, Earth, Solid colors, Geometric shapes, and the Seascapes menu, each of which supports 3840 \* 2160 resolution.



### Ⓐ Select a photo

- Users can select and add any image you want in addition to the default image by selecting the area in the check box.

## 5.9 Wallpaper & style



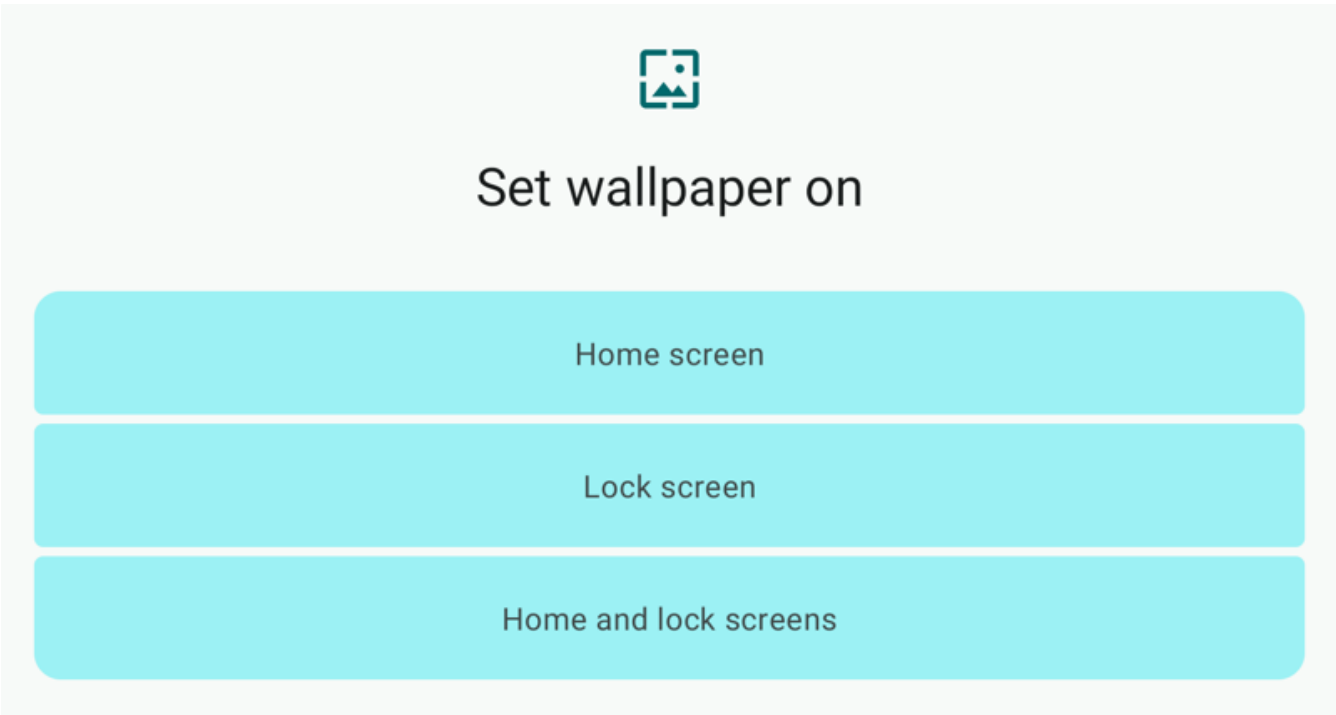
Home screen



Lock screen

### ⓑ Home screen & lock screen

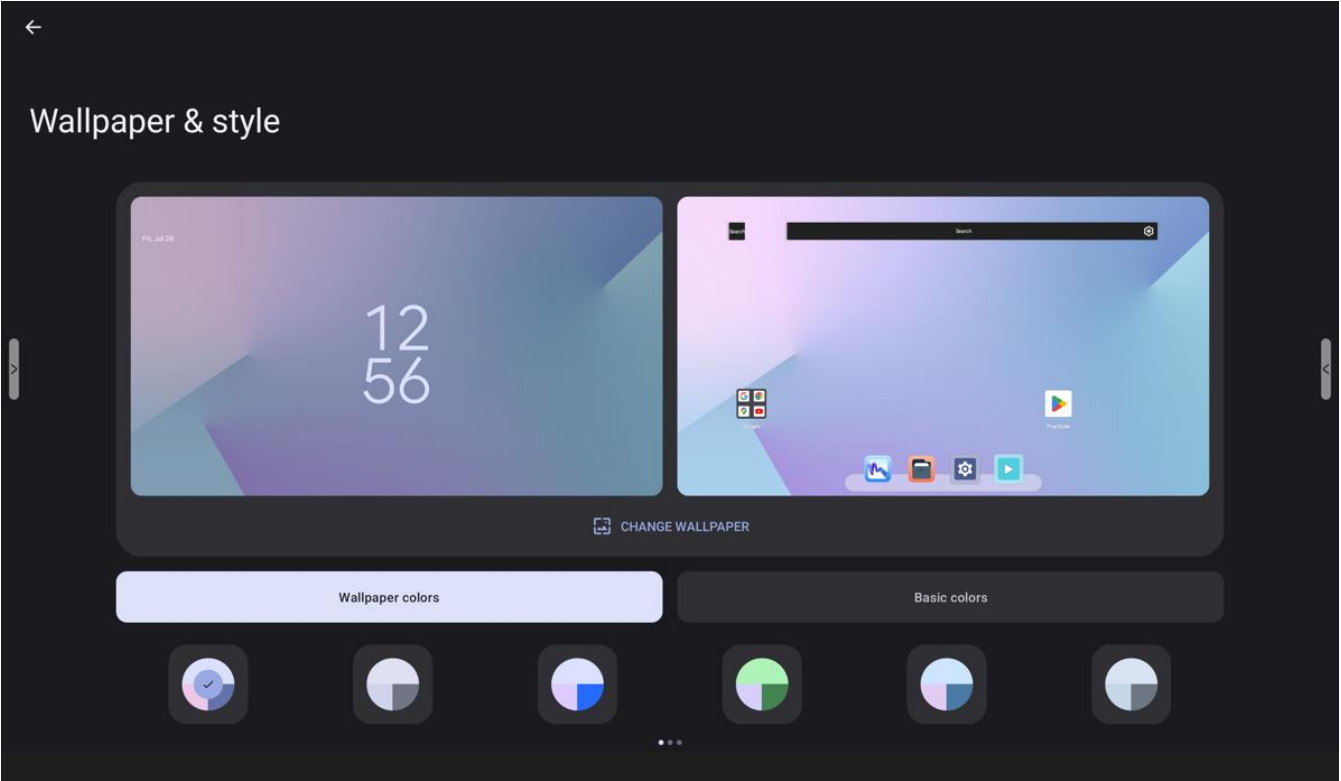
- Users can check the HOME Screen and Lock Screen status of the wallpaper want to change.



### ⓒ Select

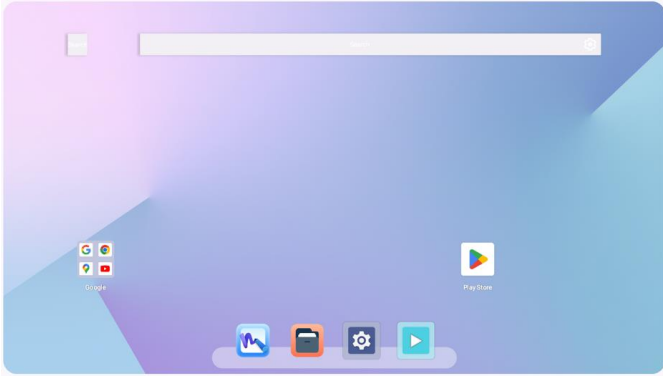
- Select that area  to change the wallpaper.
- In the additional window, users can change the wallpaper of the desired part by selecting three types: Home screen, Lock screen, and Home and lock screen.

# 5.9 Wallpaper & style

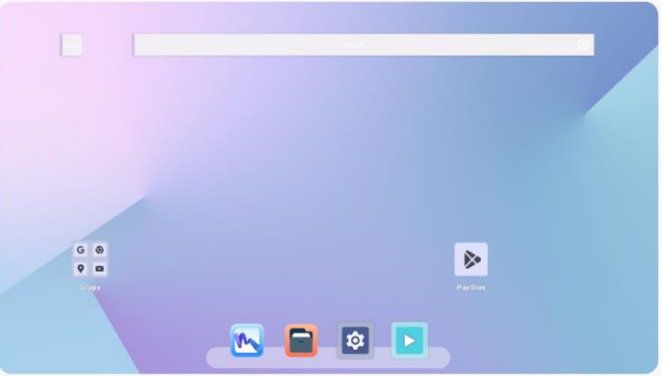


## ④ Dark theme

- Using a dark theme changes the Android UI to a darker color overall.



Themed icons Off



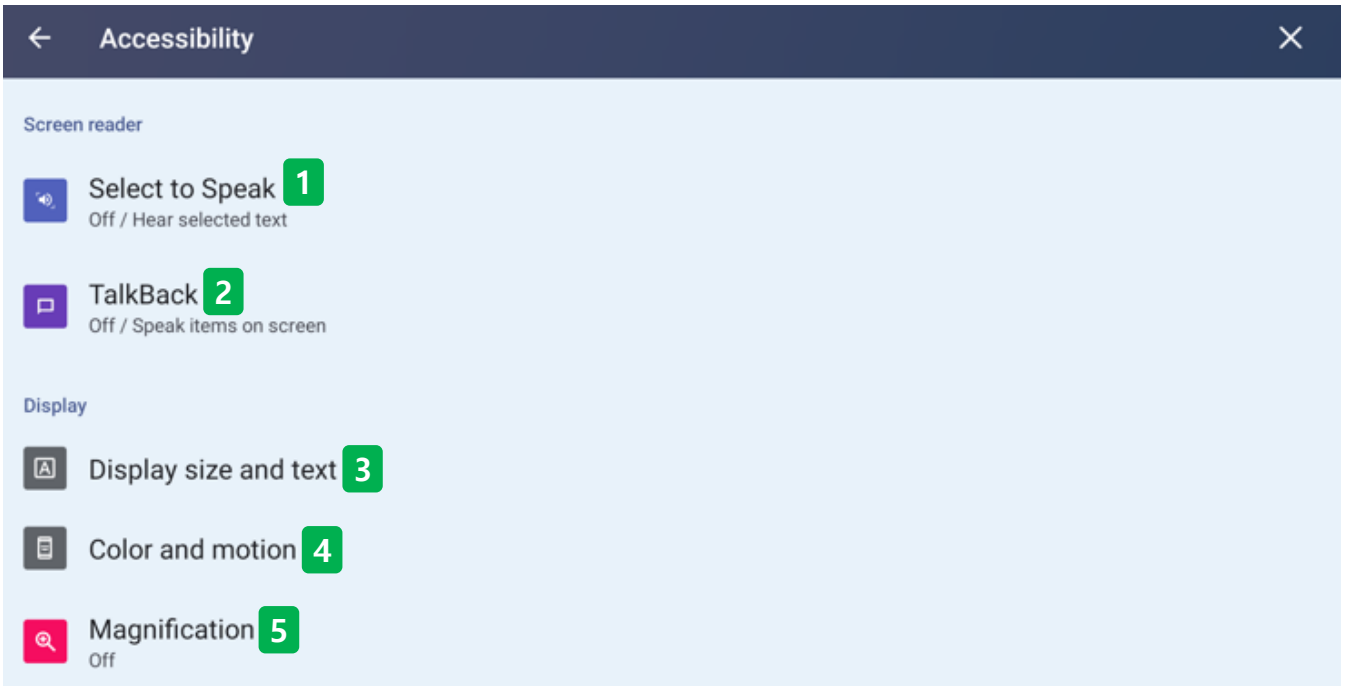
Themed icons On

## ⑤ Themed icons (Beta)

- The Theme ICONS function changes the icon color of the app in Android.
- This feature may still be changed later to the BETA version.

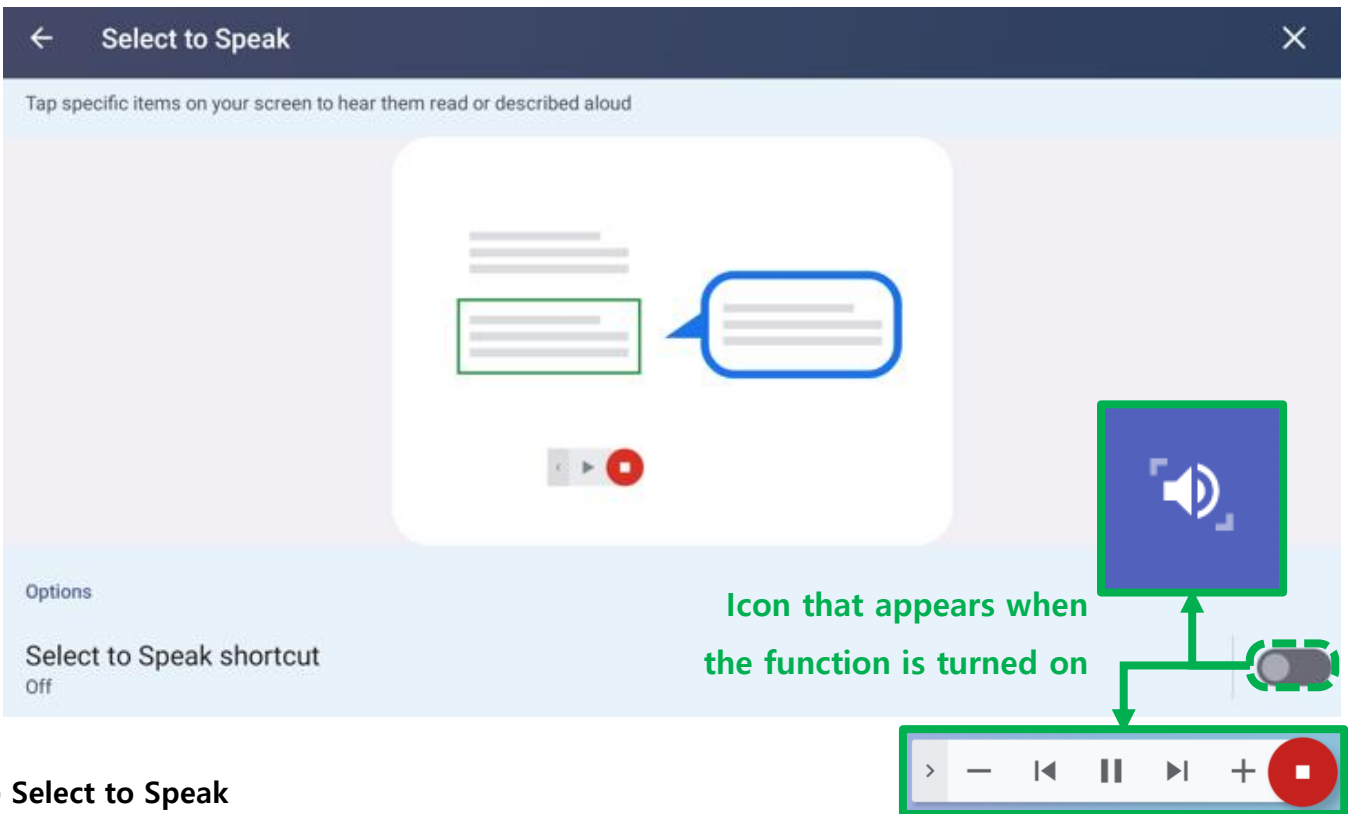
## 5. System setting

### 5.10 Accessibility



#### ❖ Accessibility

- The accessibility menu can be set up to enhance convenience in using IFPD.



#### ① Select to Speak

- Tap a specific menu on the screen to read or explain the contents aloud.
  - When you turn on the feature, a small speaker-shaped icon appears on the right side of the screen, and a play button appears when you click on the speaker icon.
- When you start playing in this state, read the selected menu aloud on the screen of IFPD.

## 5.10 Accessibility



### Allow Select to Speak to have full control of your device?

Full control is appropriate for apps that help you with accessibility needs, but not for most apps.

#### View and control screen

It can read all content on the screen and display content over other apps.

#### View and perform actions

It can track your interactions with an app or a hardware sensor, and interact with apps on your behalf.

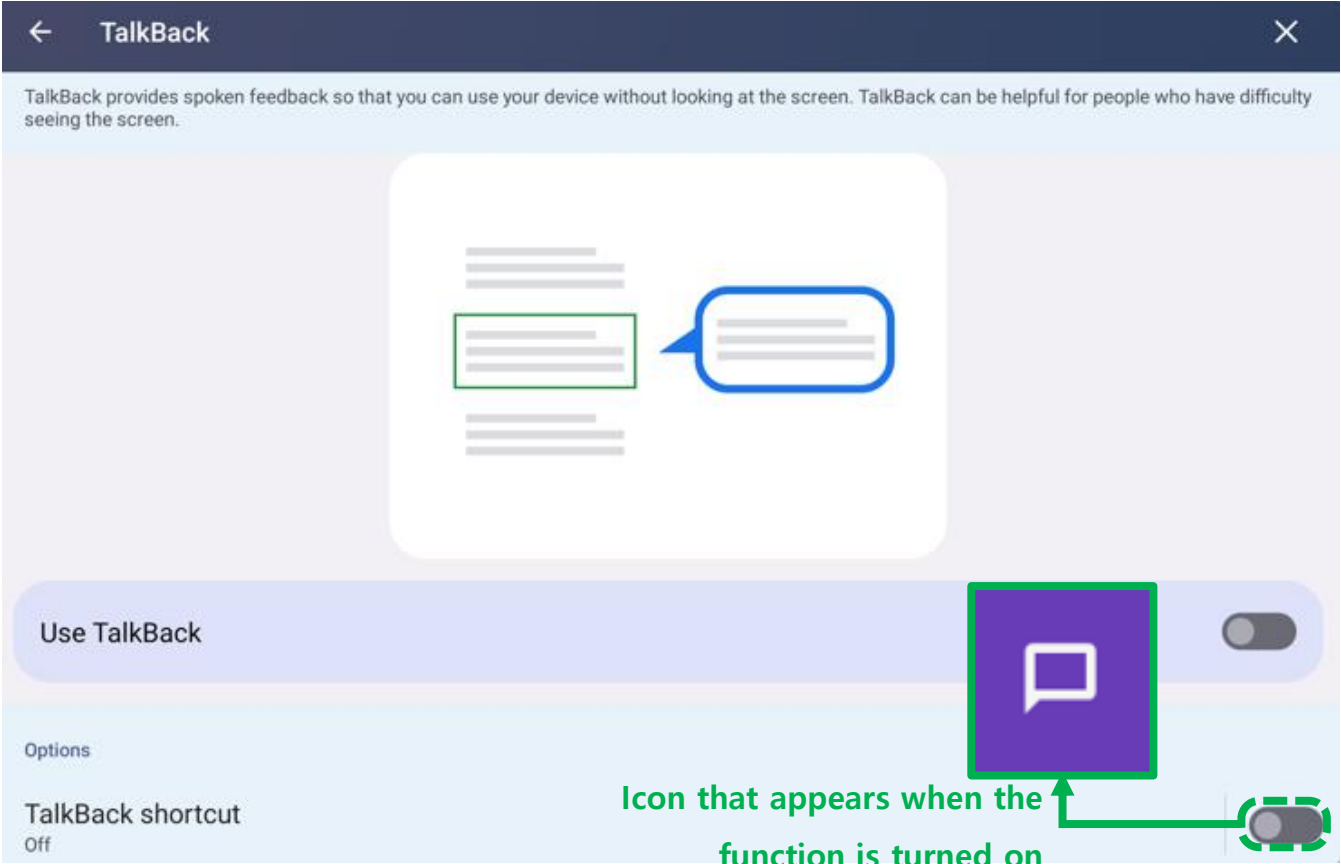
### ① Feature supplement descriptions

- It is recommended to give a perfect control to the app that provides access to accessibility, but it is not suitable for most Apps.
- Read all the content displayed on the screen and display the content on the other apps.
- Users can track your interactions with the App or hardware sensor and interact with the App on behalf of the user.

#### [How to use the select to speak feature ]

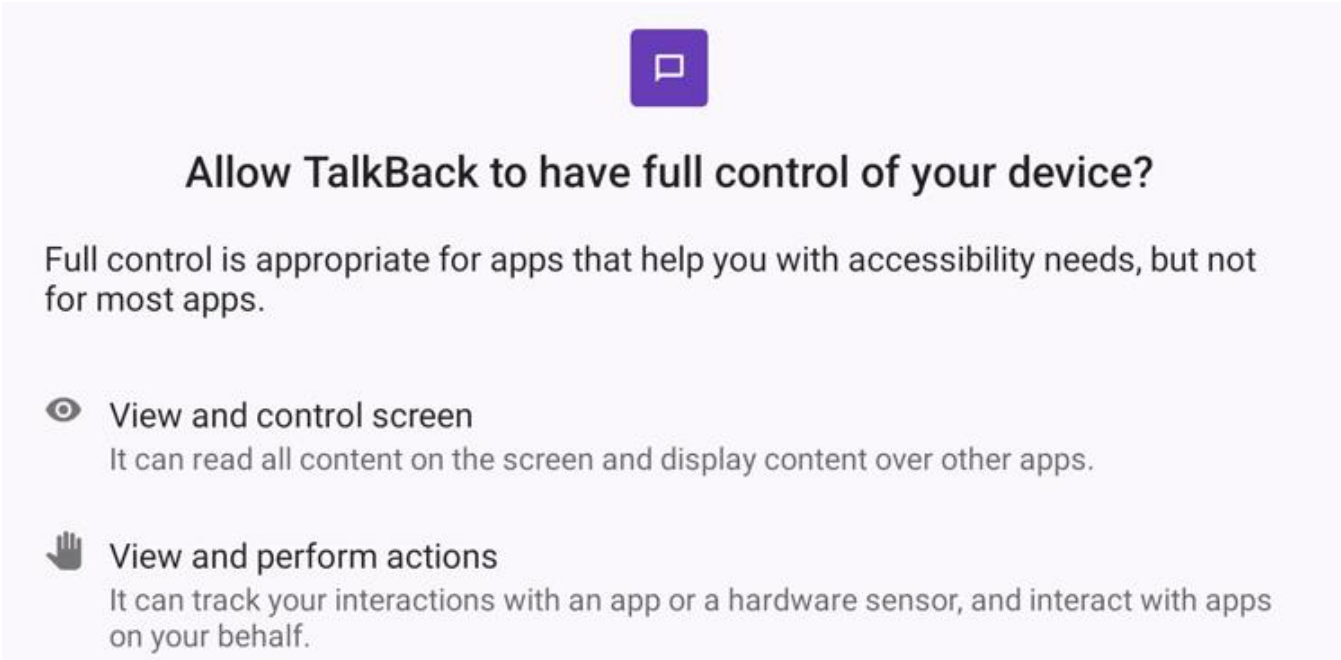
1. Tap the menu, such as text or image.
2. To select multiple menus, drag the screen with fingers.
3. Tap the Play button to listen to all the menus displayed on the screen.
4. Select the text displayed in the camera view.

# 5.10 Accessibility



## ② TalkBack

- It provides voice feedback and users can use the device without looking at the screen. This feature can help users who are hard to see the screen.



## ① Feature supplement descriptions

- It is recommended to give a perfect control to the app that provides access to accessibility, but it is not suitable for most Apps.
- Read all the content displayed on the screen and display the content on the other apps.
- Users can track your interactions with the App or hardware sensor and interact with the App on behalf of the user.

# 5.10 Accessibility

## ① Feature supplement descriptions

### [How to use the TalkBack feature ]

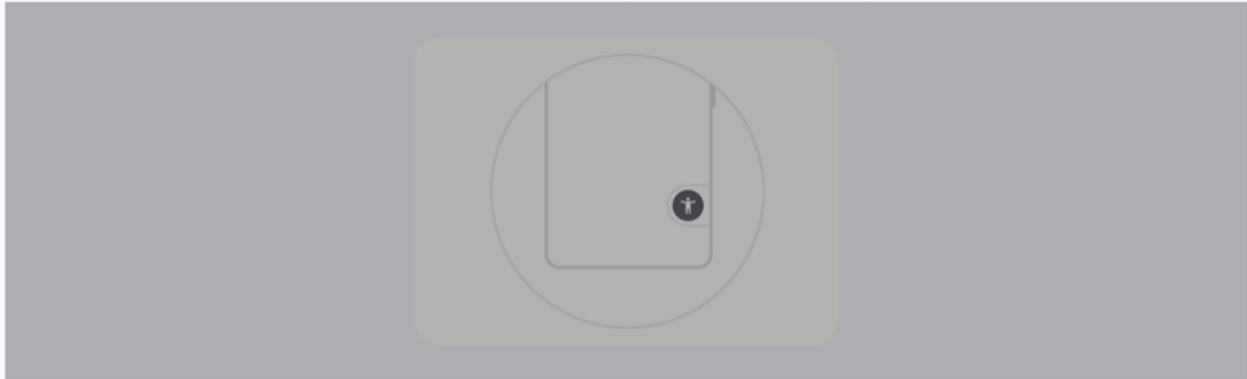
- 1. Swipe to the right or left to move between several menus.
- 2. Double-tap the menu to activate it.
- 3. Drag with two fingers to scroll.

### [How to stop using the Talkback feature]

- 1. Volume Key: Press 2 volume button for a few seconds at the same time.
- 2. set-up : Tap Enable TalkBack. The outline is displayed. Tap it twice.

When the confirmation message is displayed, tap the stop. The outline is displayed. Tap it twice.

## Use accessibility button to open



To use this feature, tap the accessibility button on your screen.

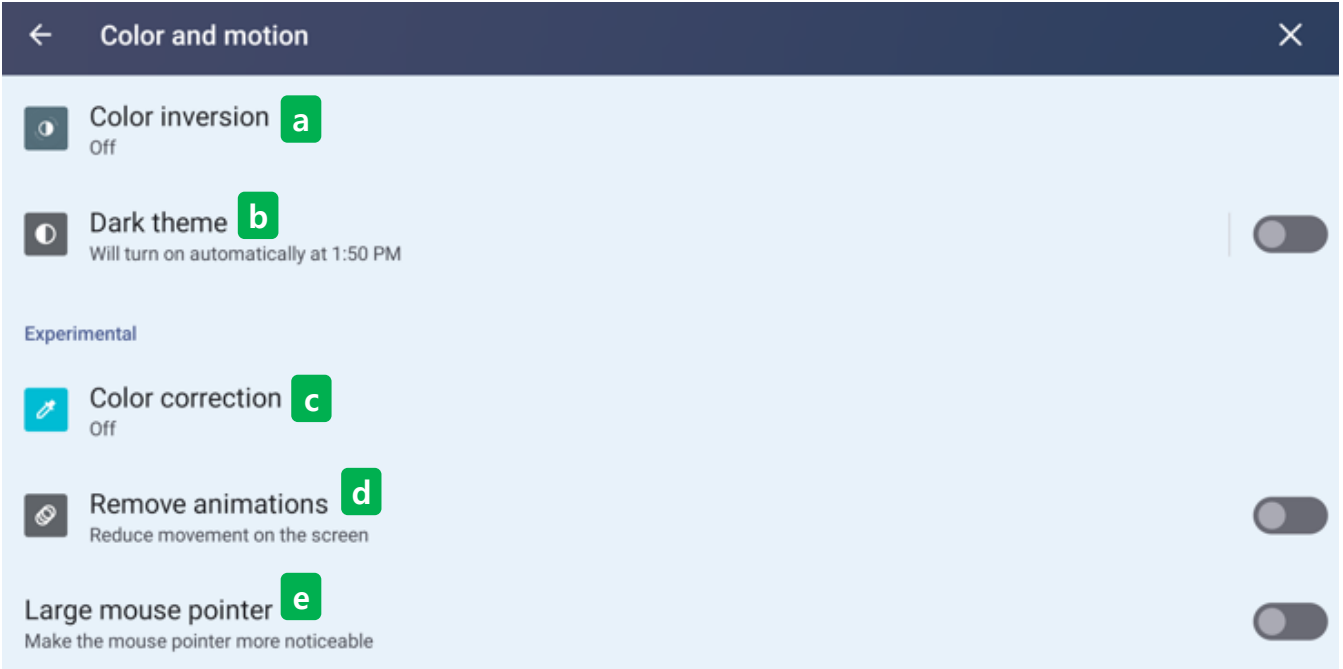
GOT IT



## 5.10 Accessibility

### ③ Display size and text

- This feature is the same as the description of the Display menu. Please refer to the Display page.



### ④ Color and motion

-Users can adjust the color users see on the Android screen or control the animation behavior.

#### Ⓐ Color inversion

- The color inversion function changes light colors to dark colors and dark colors to light colors.

#### Ⓑ Dark theme

- The Dark theme is the same as the Wallpaper setting, and changes the Android UI to an overall darker color.
- The details of the feature are the same as the Wallpaper menu. Please refer to the Wallpaper page.

#### Ⓒ Color correction

- Color correction functions are used to check the color more accurately or to remove colors to help users concentrate.

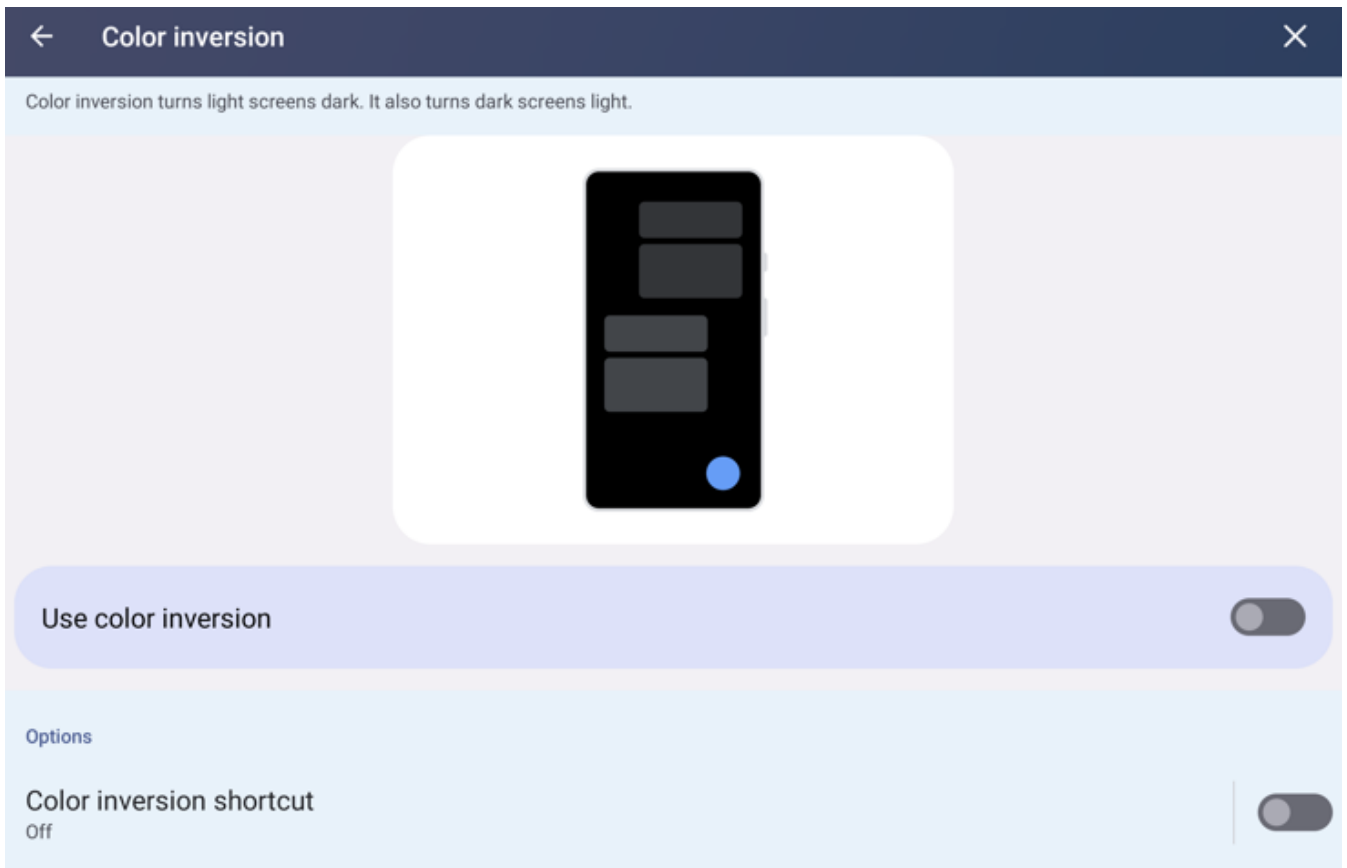
#### Ⓓ Remove animations

- Removes the animated UI on the Android screen to reduce screen movement.

#### Ⓔ Large mouse pointer

- Change the pointer size of the mouse connected to IFPD.

## 5.10 Accessibility



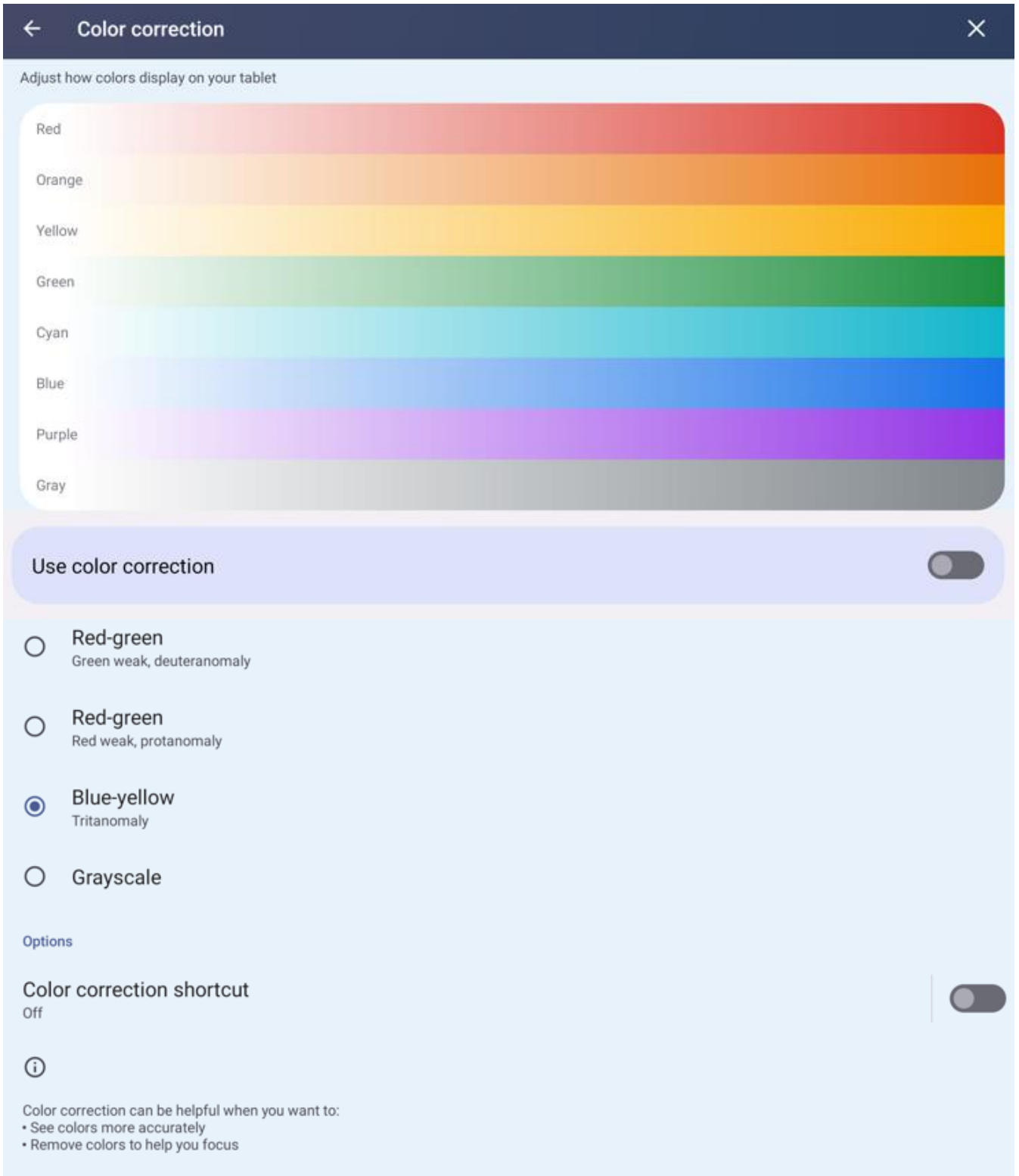
### Ⓐ Color inversion

- The color inversion function changes light colors to dark colors and dark colors to light colors.

### ① Feature supplement descriptions

- Colors change in media and images.
- Color inversion works in all apps.
- To display a dark background, a dark theme can be used instead.

# 5.10 Accessibility



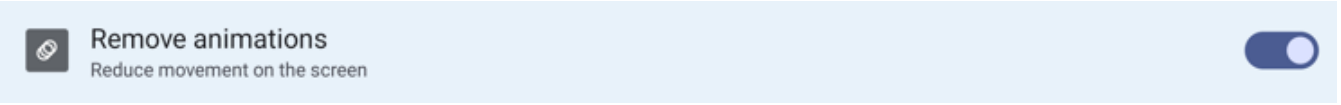
## ③ Color correction

- Color correction functions are used to check the color more accurately or to remove colors to help users concentrate.

## ① Feature supplement descriptions

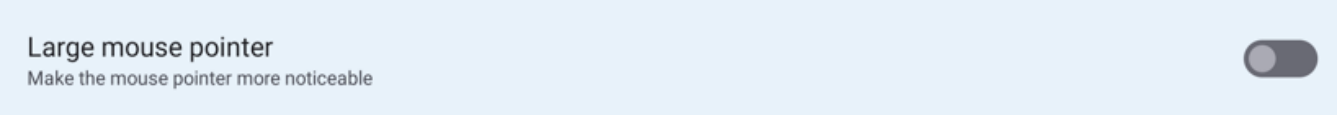
- Use to verify colors more accurately.
- Use to remove colors to help focus.

# 5.10 Accessibility



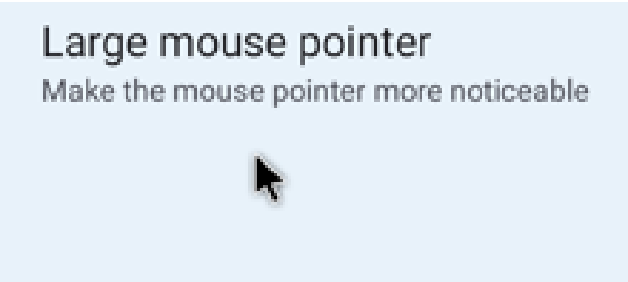
## ⓐ Remove animations

- Removes the animated UI on the Android screen to reduce screen movement.
- When turn on this function, all the movements that operate on Android will not change smoothly and change immediately.

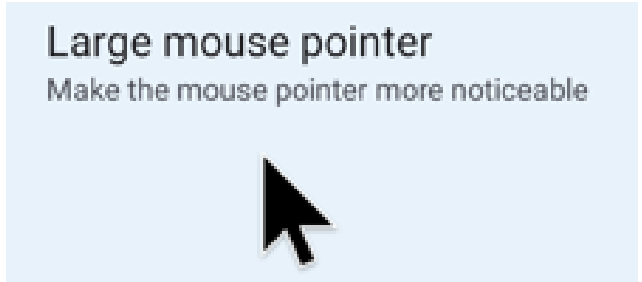


## ⓑ Large mouse pointer

- Change the pointer size of the mouse connected to IFPD.

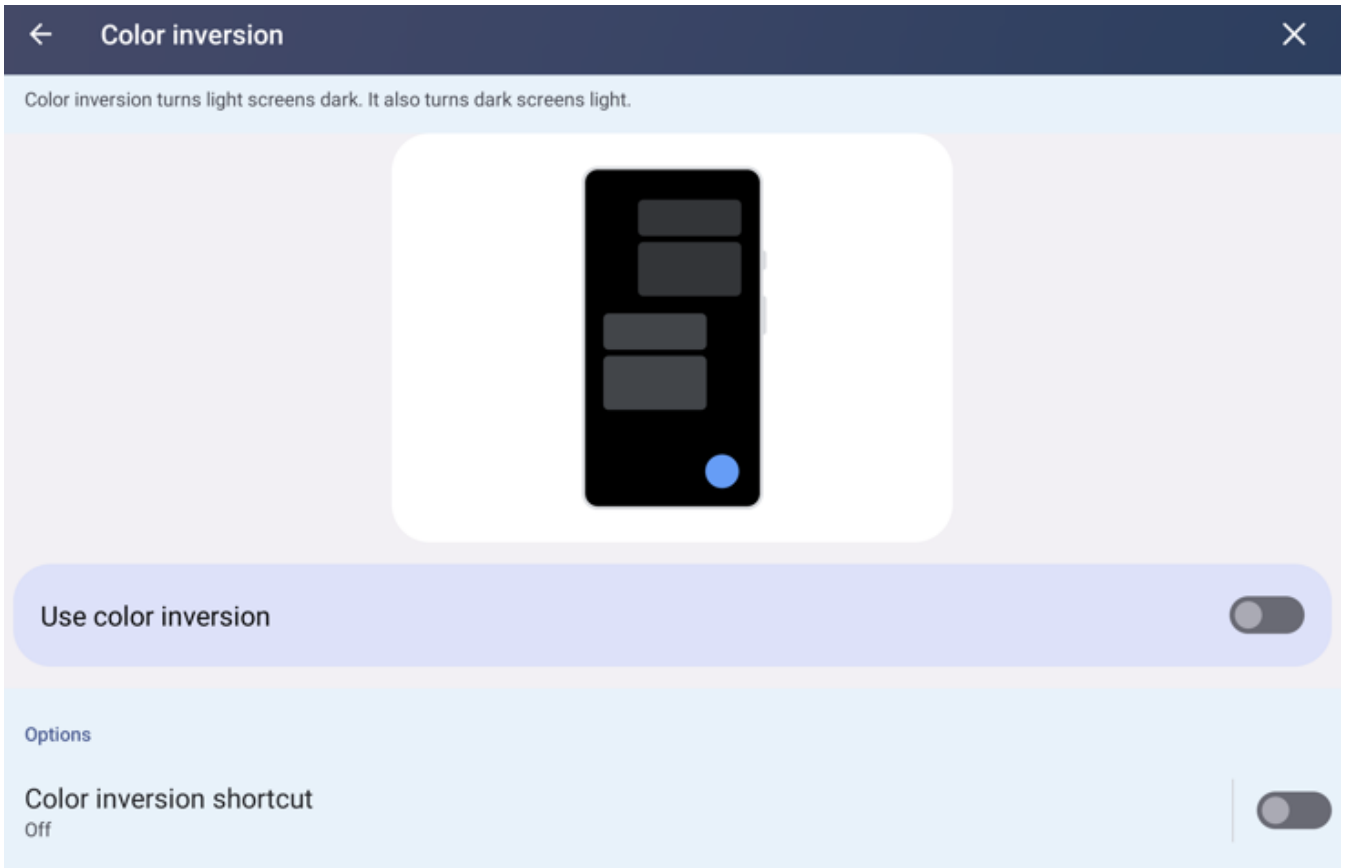


Large mouse pointer Off



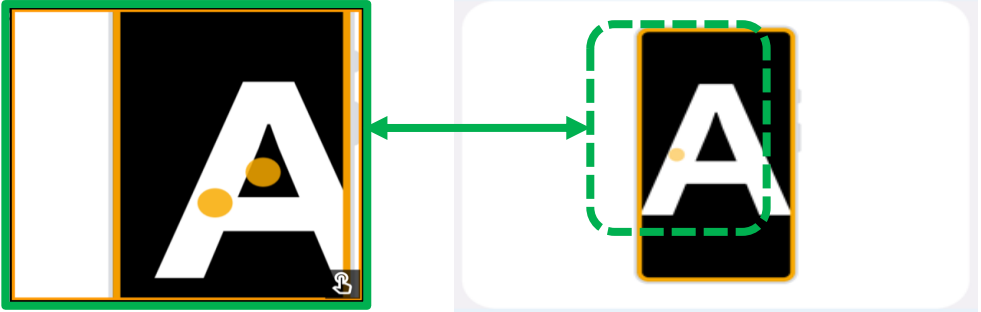
Large mouse pointer On

# 5.10 Accessibility



## ⑤ Magnification

- The zoom function is a feature that allows users to zoom in on the screen and display them in a separate window.



## ① Feature supplement descriptions

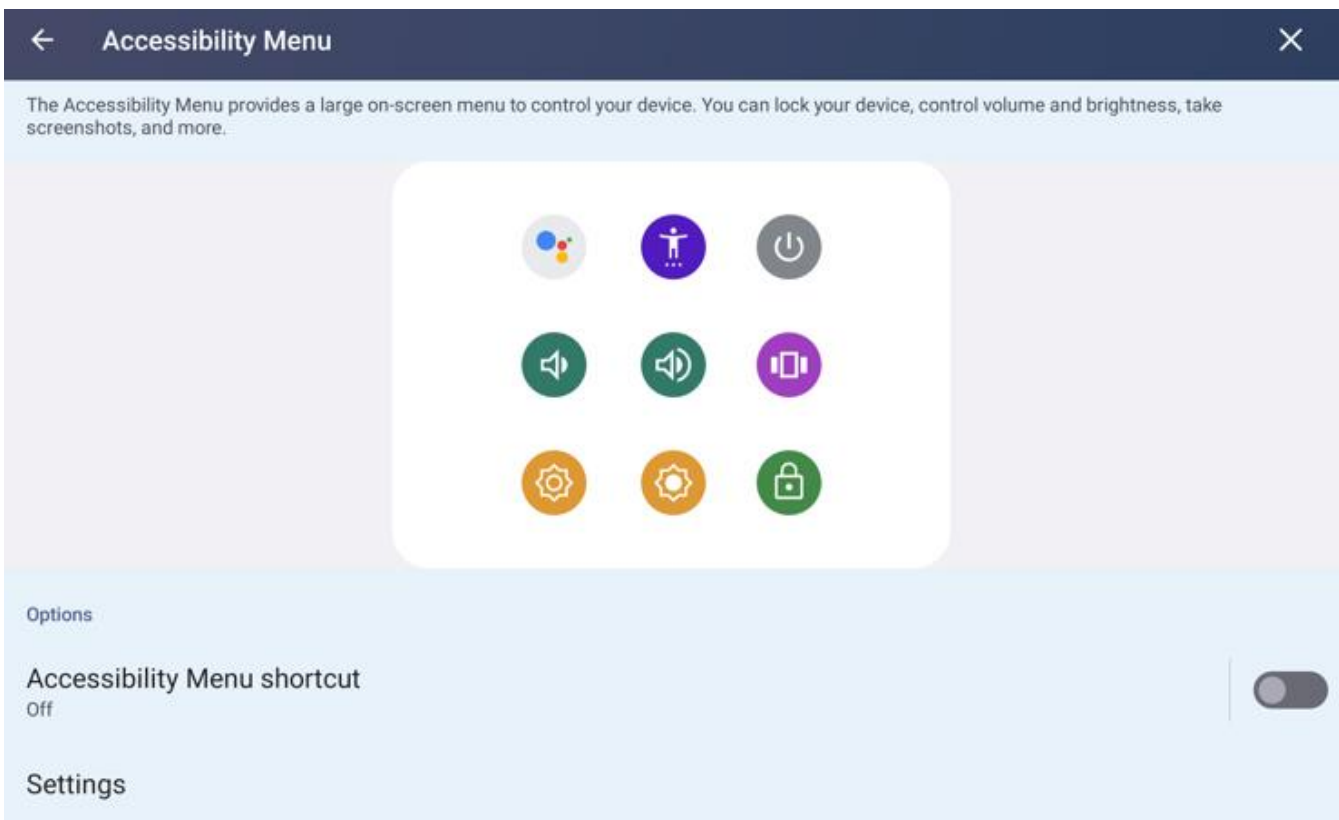
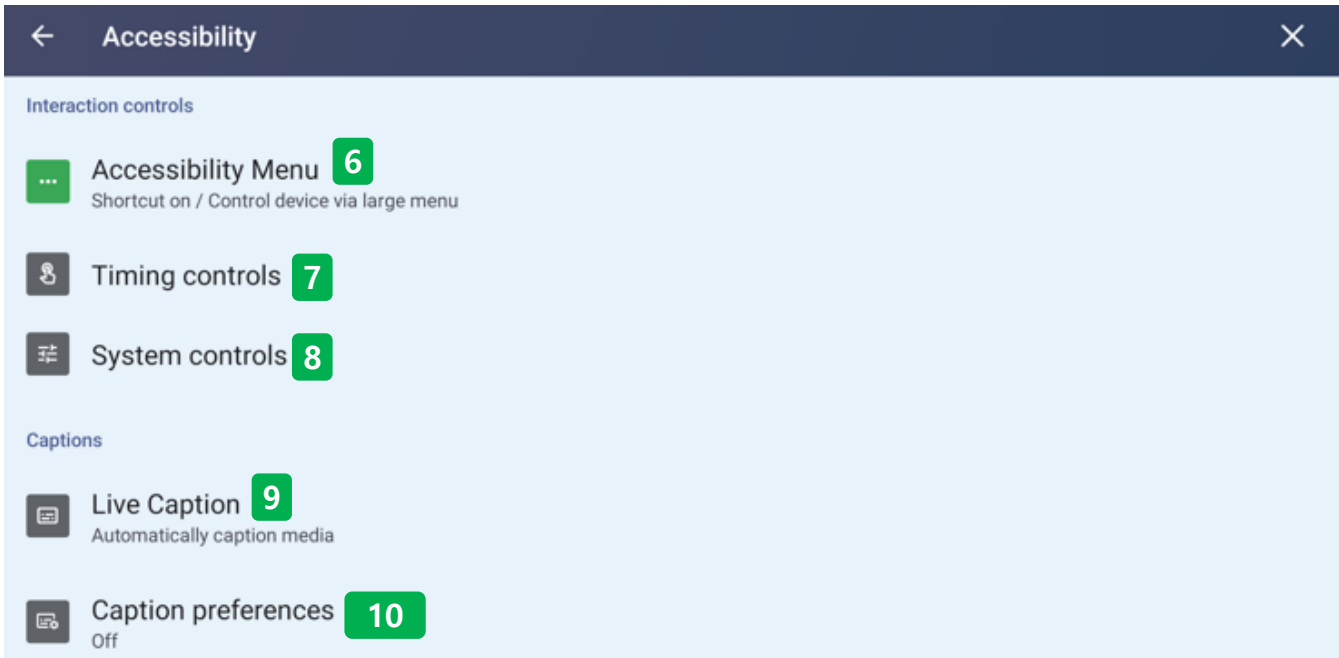
### [How to zoom in ]

1. Use hotkeys to start zooming in.
2. Tap the screen.
3. Drag two fingers to move around the screen
4. To adjust the zoom in/out, open and close two fingers.
5. Use hotkeys to stop zooming in.

### [How to temporarily zoom in ]

1. Make sure that the zoom type is set to Full Screen.
2. Use the hotkeys to start zooming.
3. Touch and hold anywhere on the screen.
4. Drag two fingers to move around the screen
5. Release your finger to stop zooming in.

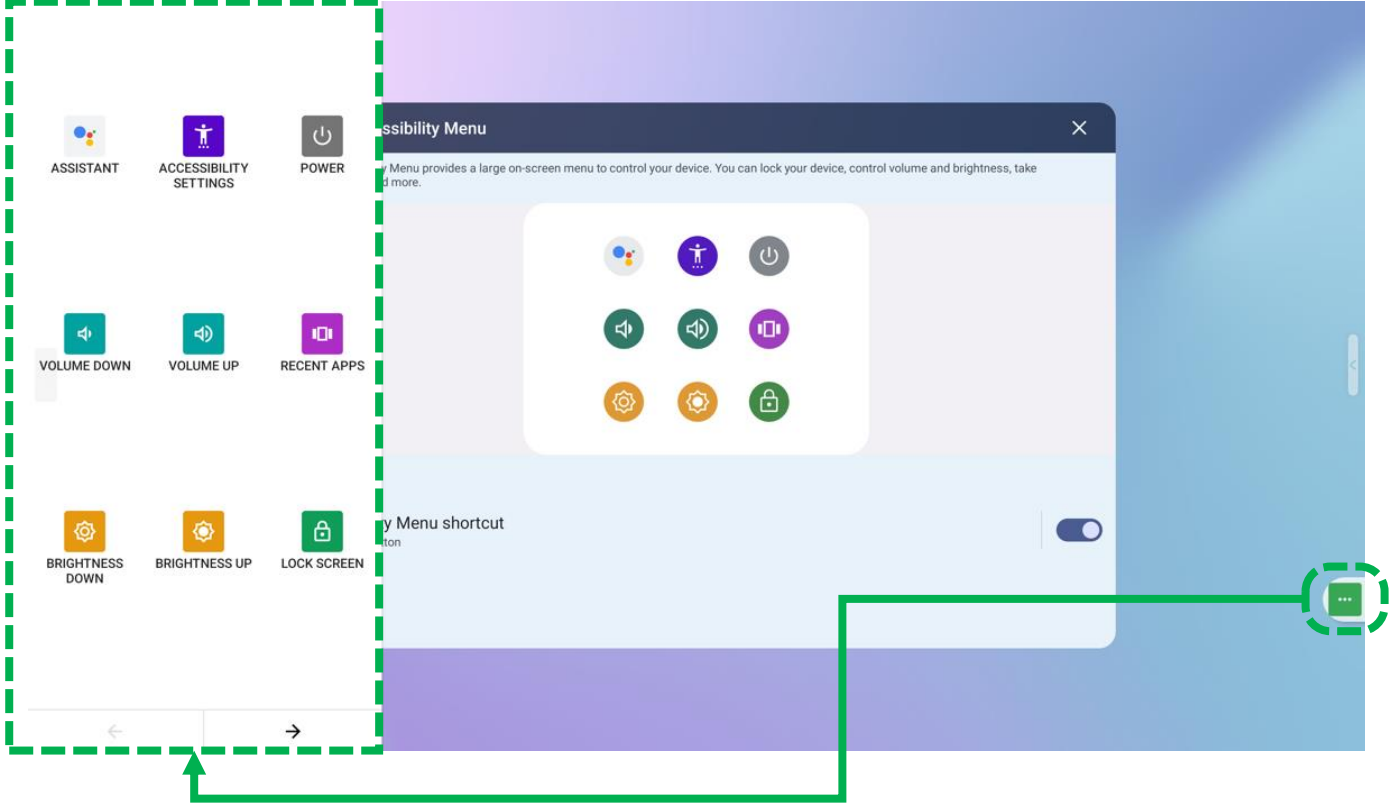
# 5.10 Accessibility



## ⑥ Accessibility Menu

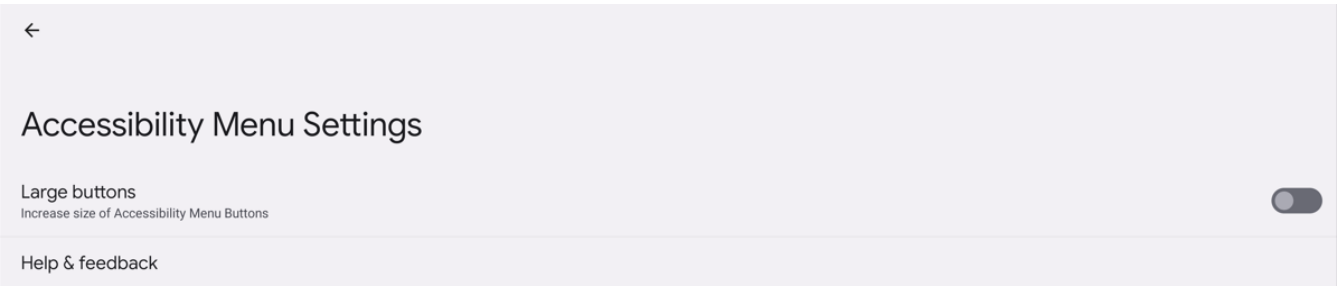
- The Accessibility menu allows users to control your device with a menu that appears large on the screen.
- Tasks such as device lock, volume and brightness control, and screenshot are supported.

# 5.10 Accessibility



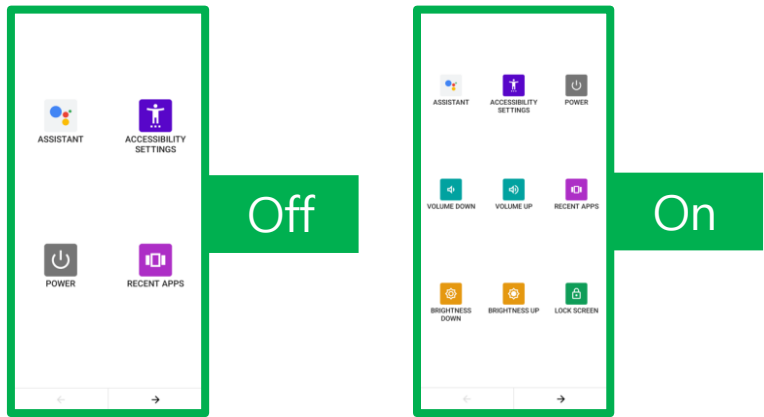
## ⑥ Accessibility Menu

- When turn on the feature, the accessibility menu icon appears on the right, and when you select the icon, the menu appears on the left.
- This menu makes it easy and fast to run features such as brightness, volume, power, lock, notification, and screenshots etc.

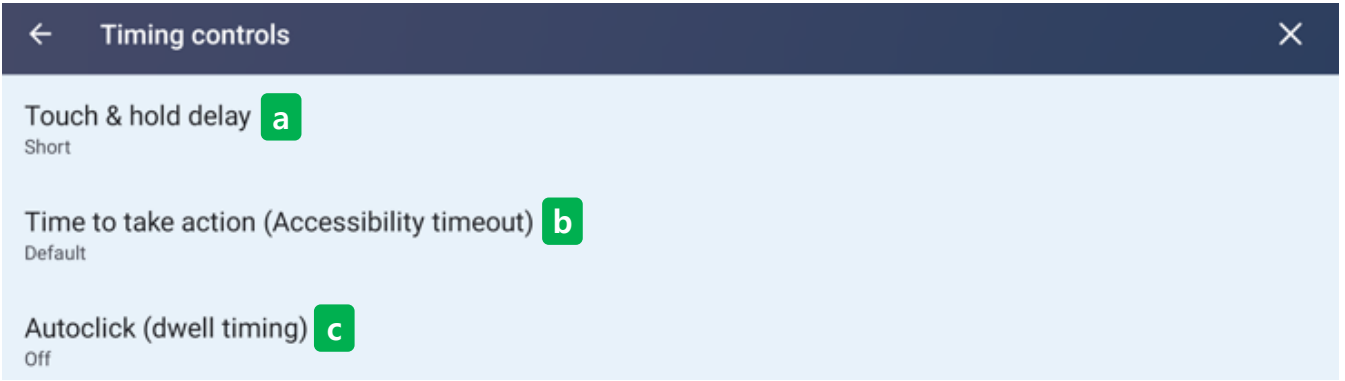


## ⑥ Accessibility Menu

- In the detail settings, users can change the icon size of the accessibility menu to make it larger.

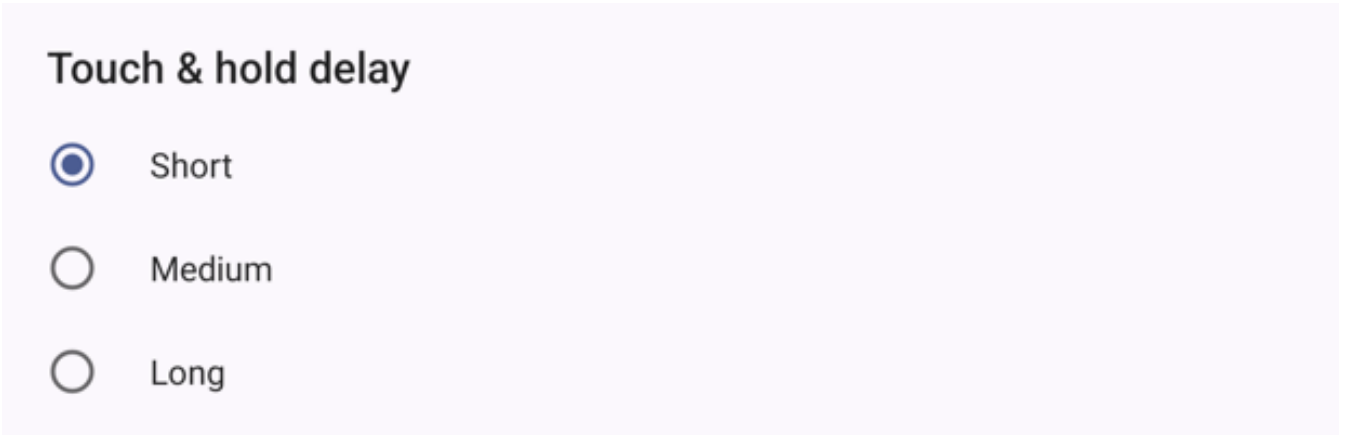


# 5.10 Accessibility



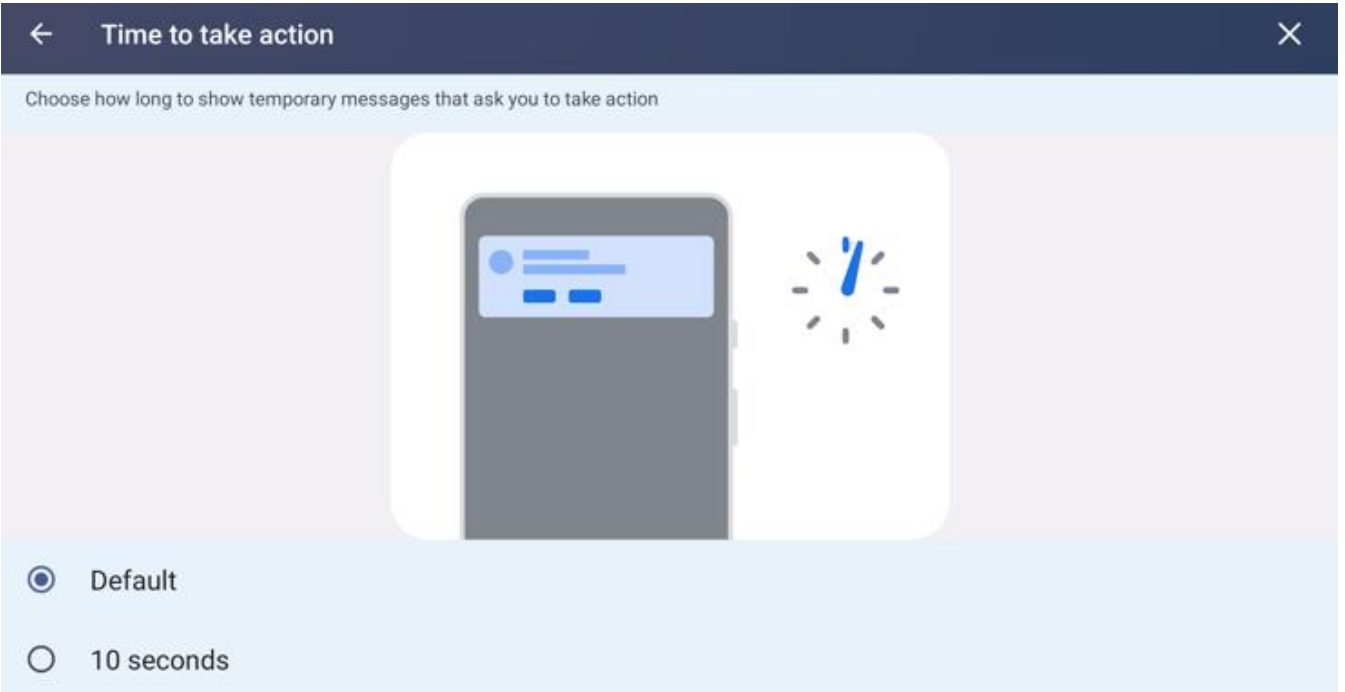
## ⑦ Timing controls

- The timing control function controls long-pressing touch, time to take action, and automatic clicking mouse.
- Timing preferences are not supported on all apps.



## ⑧ Touch & hold delay

- Users can select the delay time of the functions that operate by pressing the touch long in three steps: short, medium, and long.

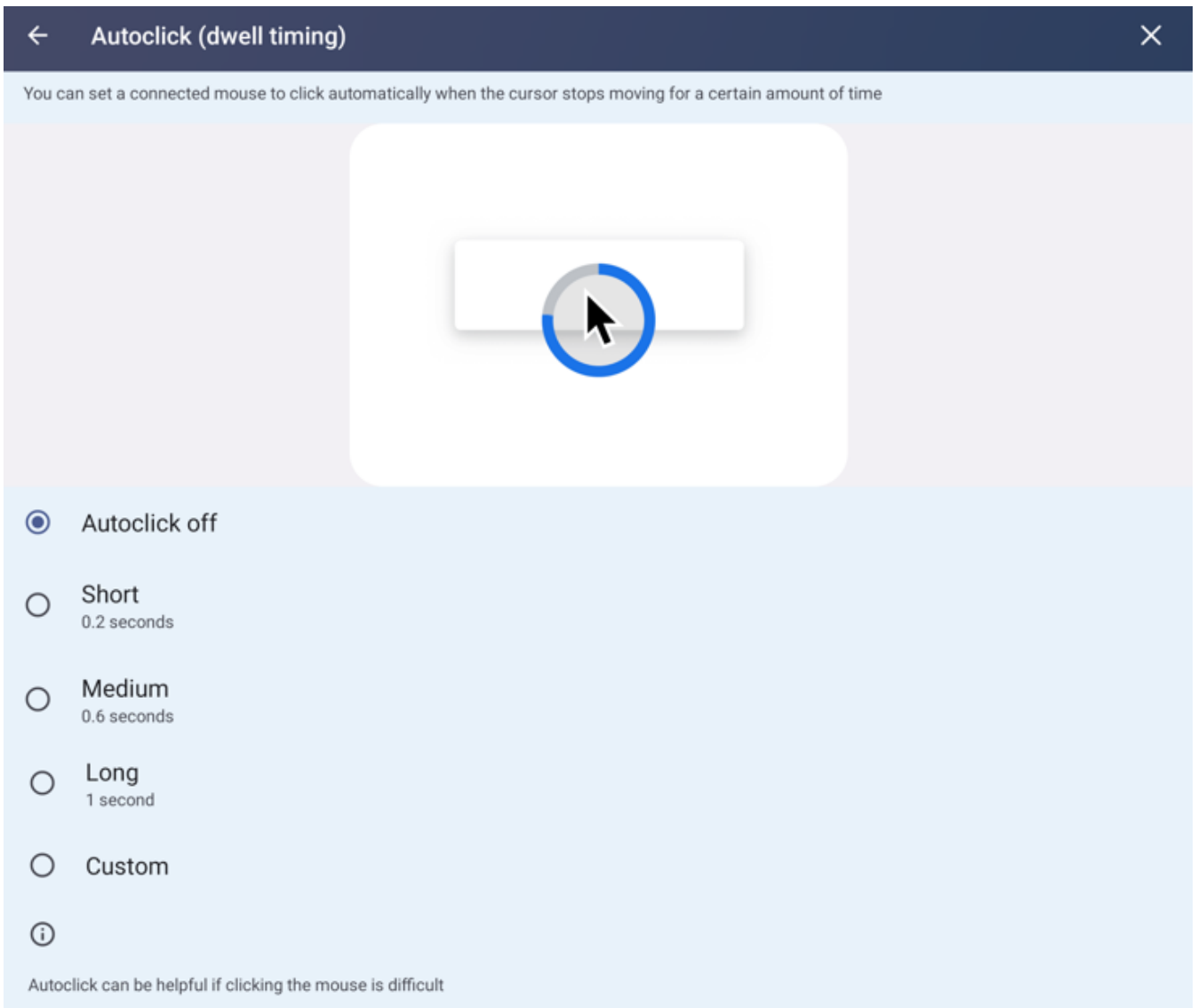


## ⑨ Time to take action (Accessibility timeout)

- Select the time at which users are prompted to take action.
- Users can set it to default, 10 sec, 30 sec, 1 min, 2 min.



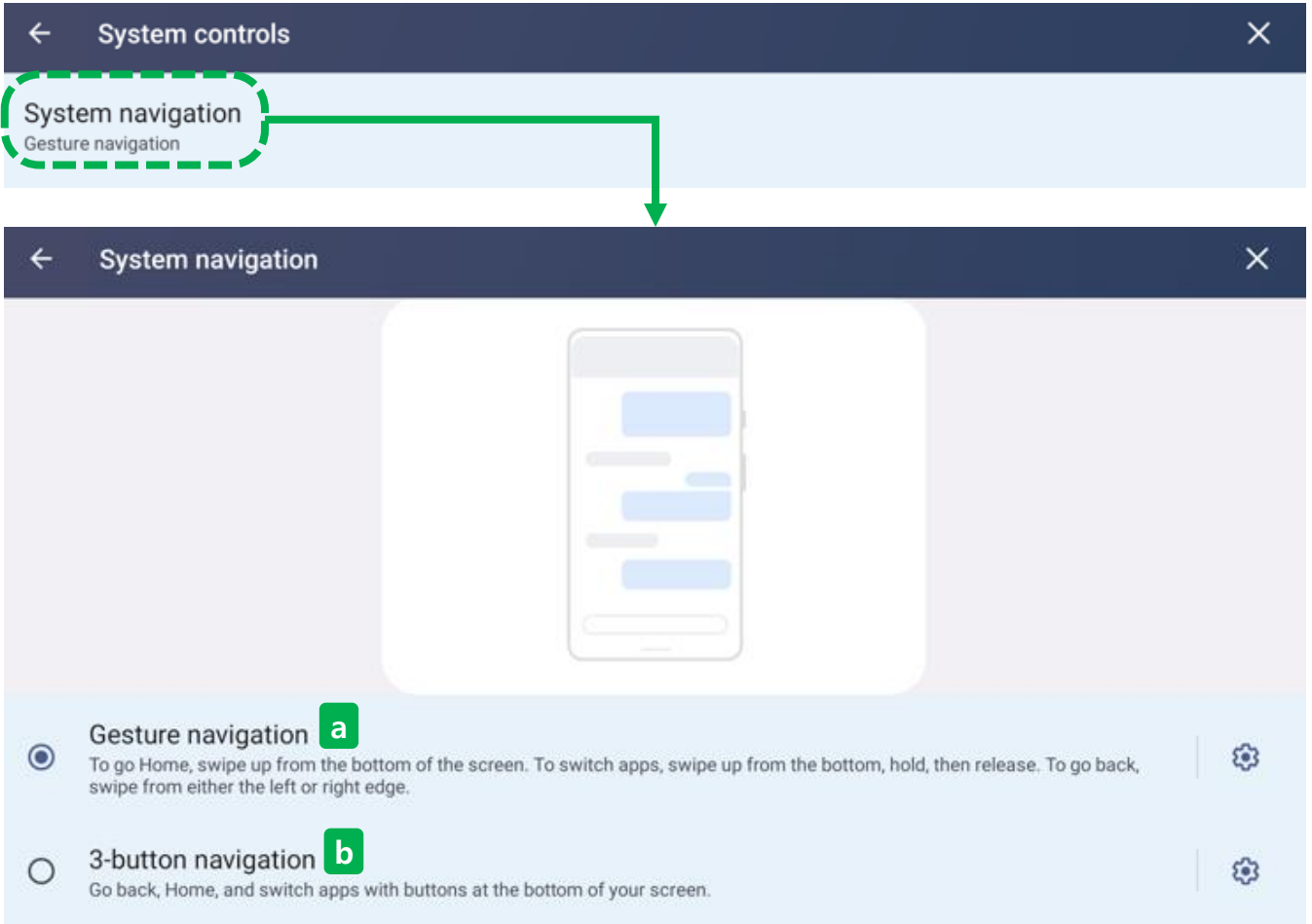
## 5.10 Accessibility



### © Auto click (dwell timing)

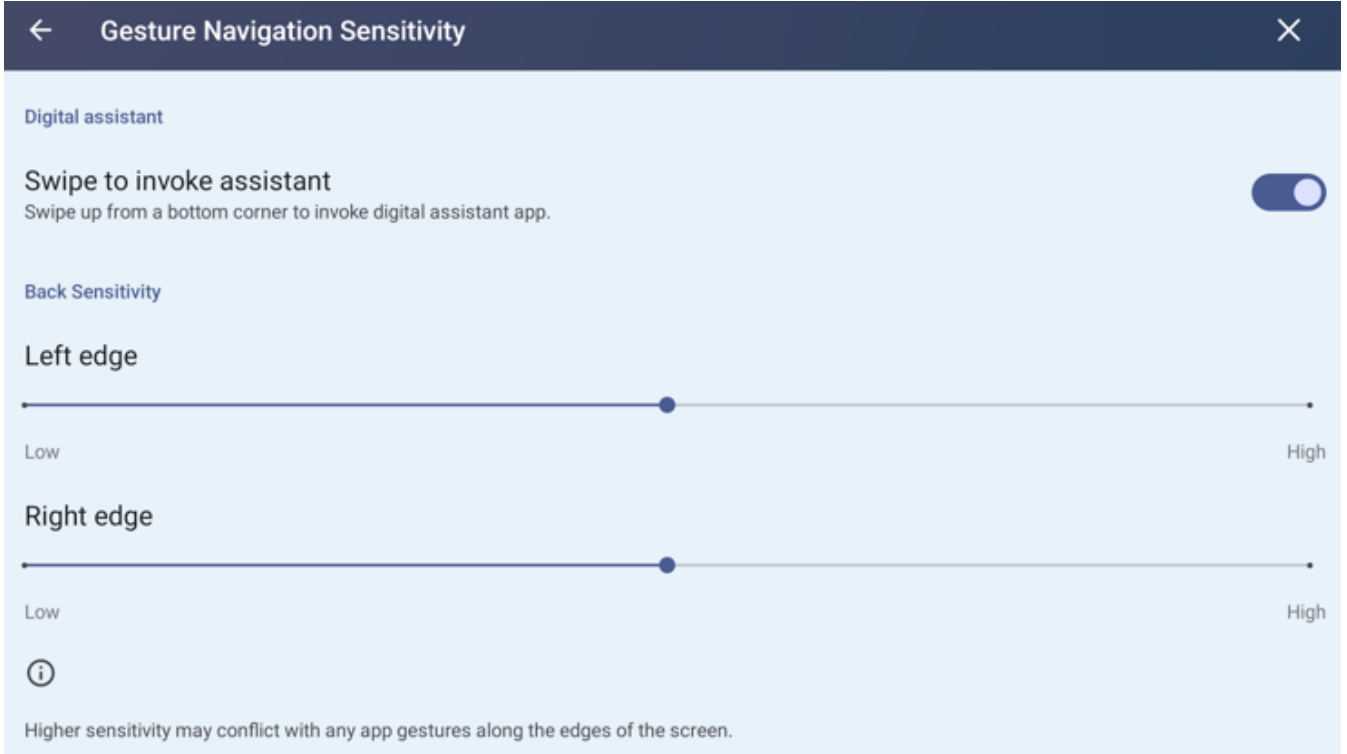
- If the cursor stops the movement for a certain time, users can set the connected mouse to automatically click.
- Users can choose Not to use, 0.2 sec, 0.6 sec, 1 sec, custom (0.2 sec to 1 sec).
- Automatic clicks can be useful when mouse clicks are difficult.

# 5.10 Accessibility



## ⑧ System controls

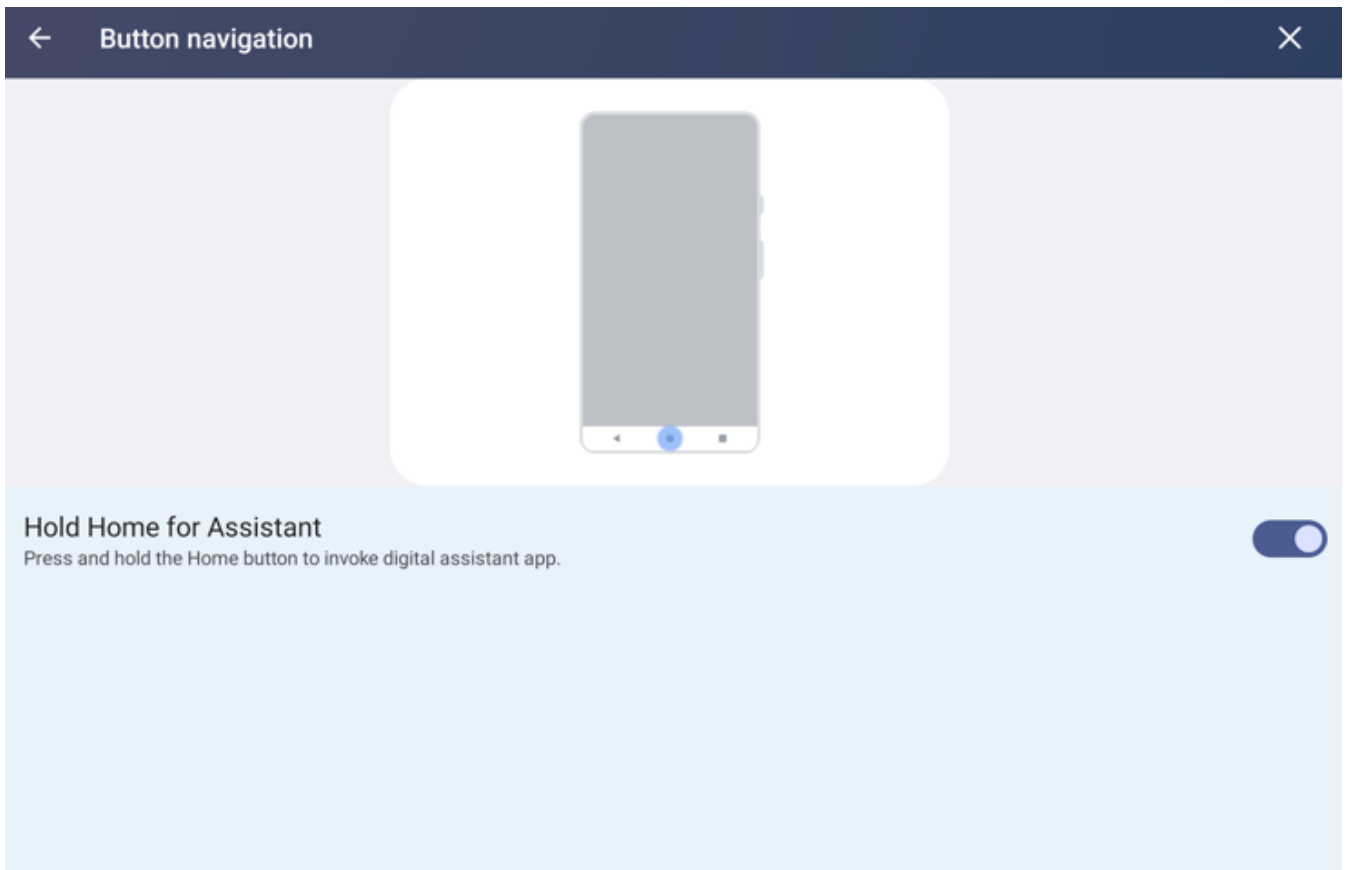
- The System Control feature sets up functions related to moving to the Home screen or switching to the App screen.



## ⑨ Gesture navigation

- Users can use gestures to navigate to the Home screen, switch apps, and set sensitivity.

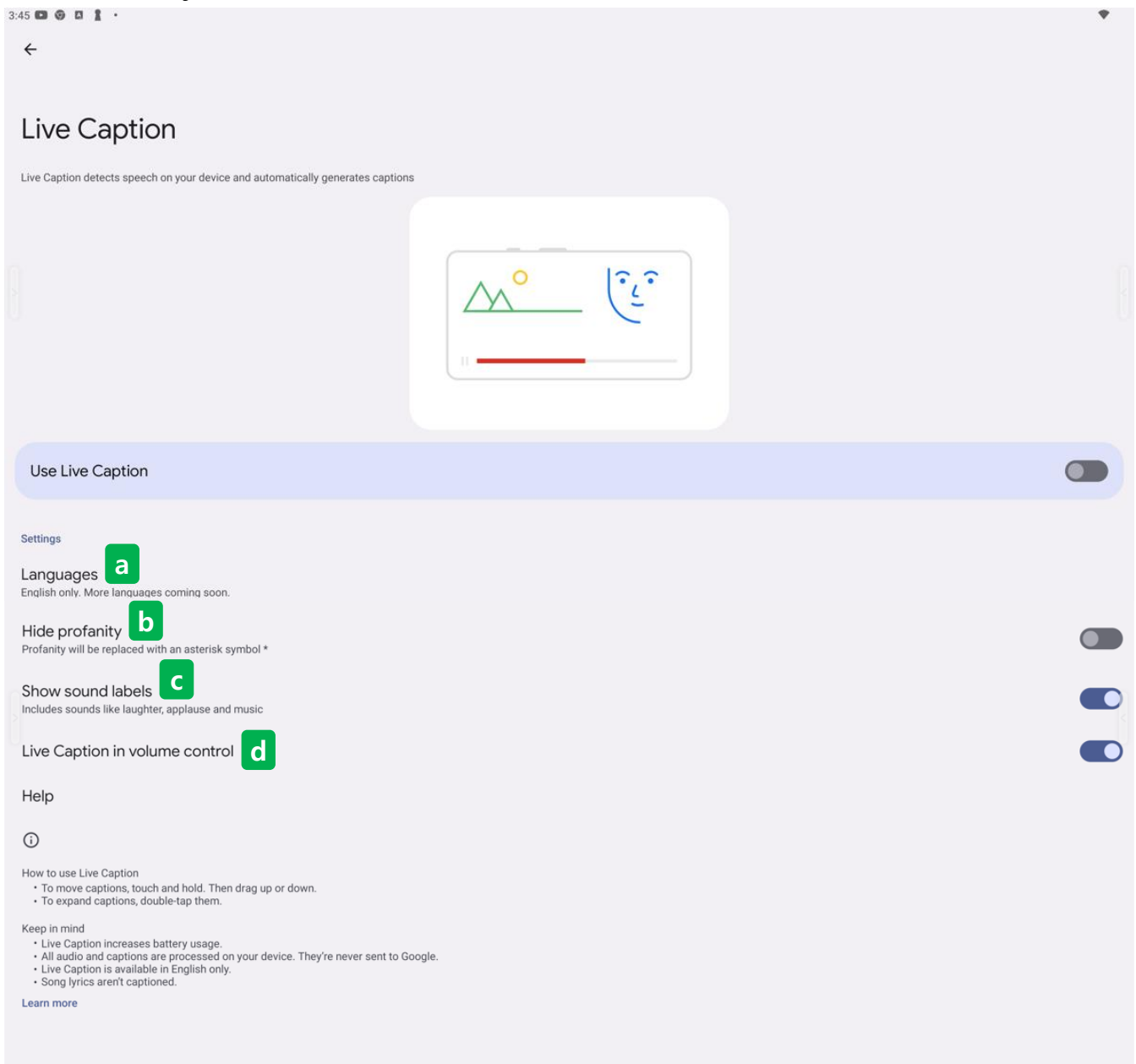
## 5.10 Accessibility



### ⑥ 3-button navigation

- Use the three buttons at the bottom of the screen to go to the Home screen or switch apps.
- To launch the Digital Assistant app, press and hold the Home button.

## 5.10 Accessibility



### ⑨ Live Caption

- The real-time subtitle feature detects voice on the device and automatically generates subtitles.

#### a. Languages

- Currently, it is only available in English and other languages will be supported soon.

#### b. Hide profanity

- The swear words of the subtitles are replaced by the asterisk (\*).

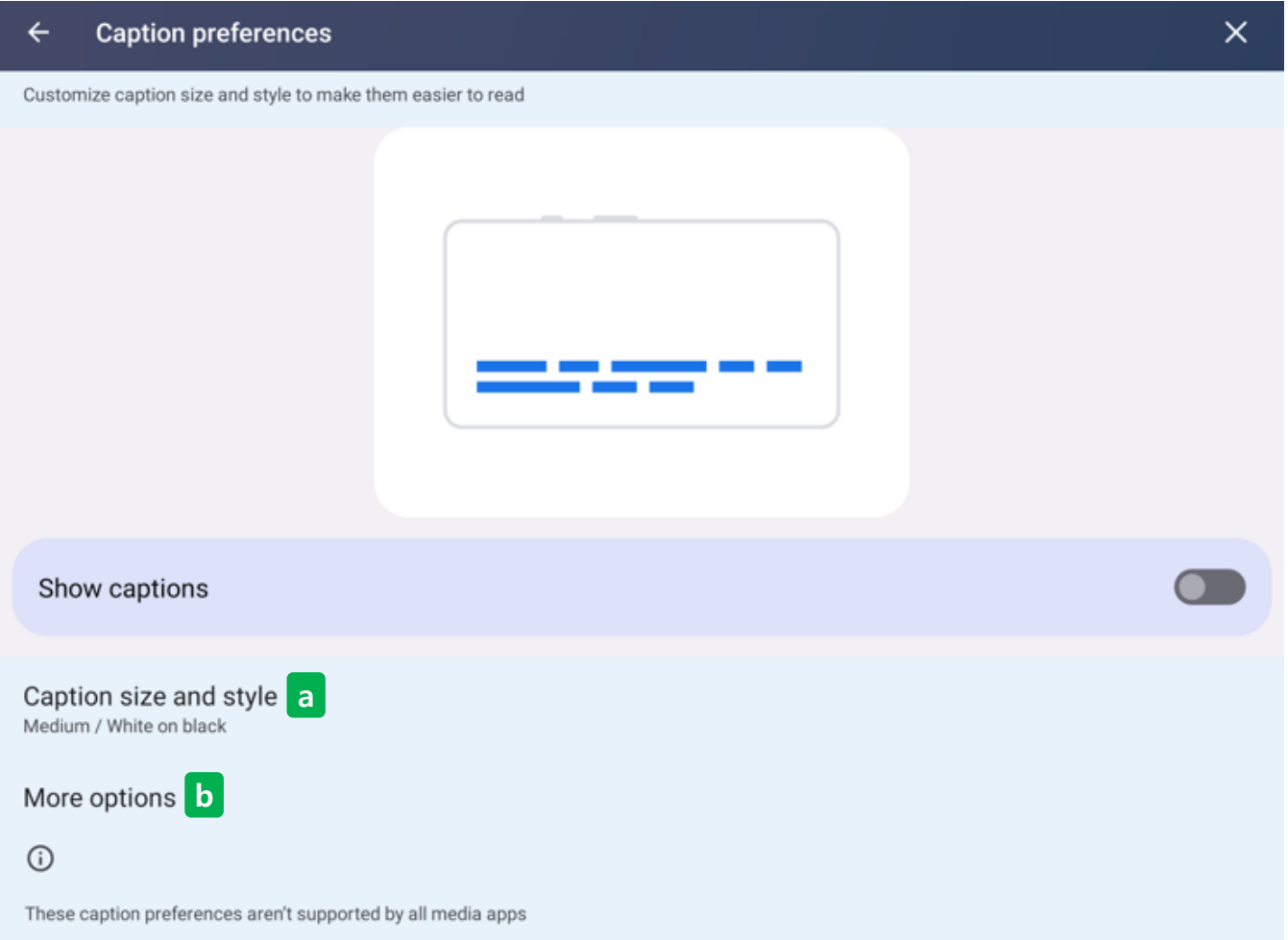
#### c. Show sound labels

- It includes sounds such as laughter, clapping and music.

#### d. Live Caption in volume control

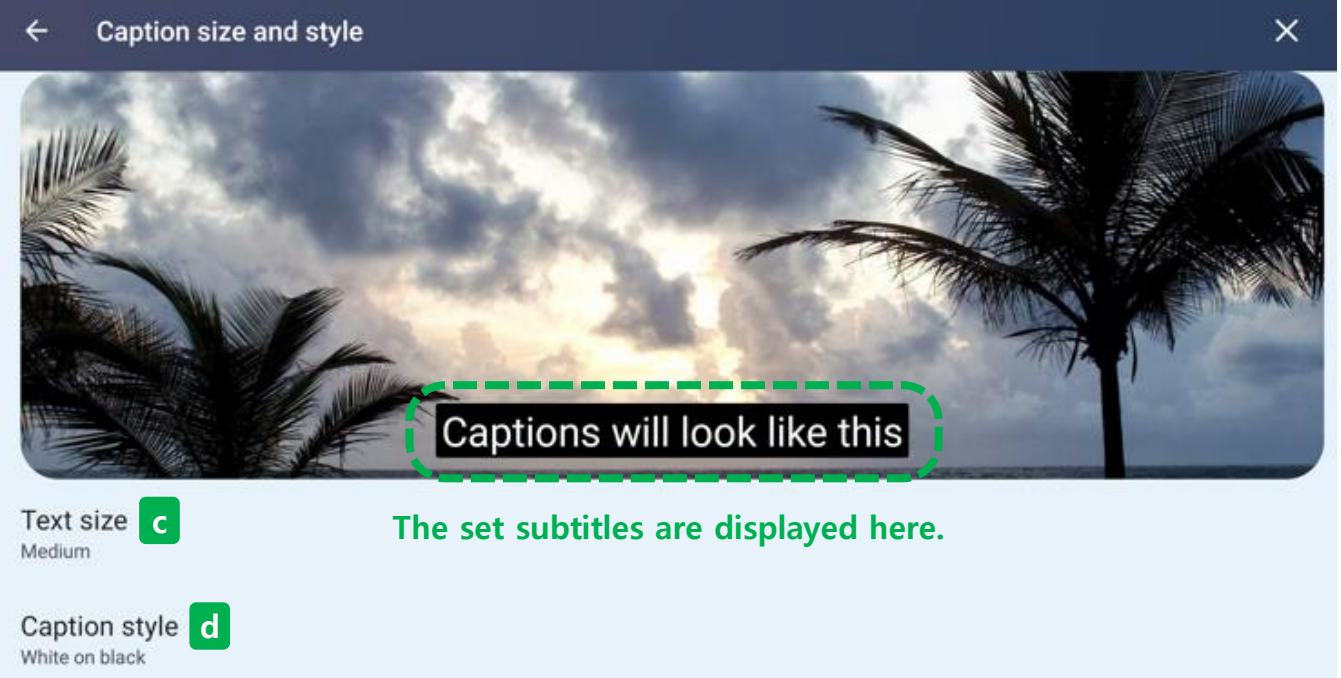
- Set the use of real-time subtitles in volume adjustment.

# 5.10 Accessibility



## ⑩ Caption preferences

- Users can set how subtitles are displayed.



## Ⓐ Caption size and style

- Users can set the size and font style of the subtitles.

# 5.10 Accessibility

## Text size Medium

### Text size

- Very small
- Small
- Medium
- Large
- Very large

### © Text size

- Set the text size of the subtitles.

## Caption style White on black

### Caption style

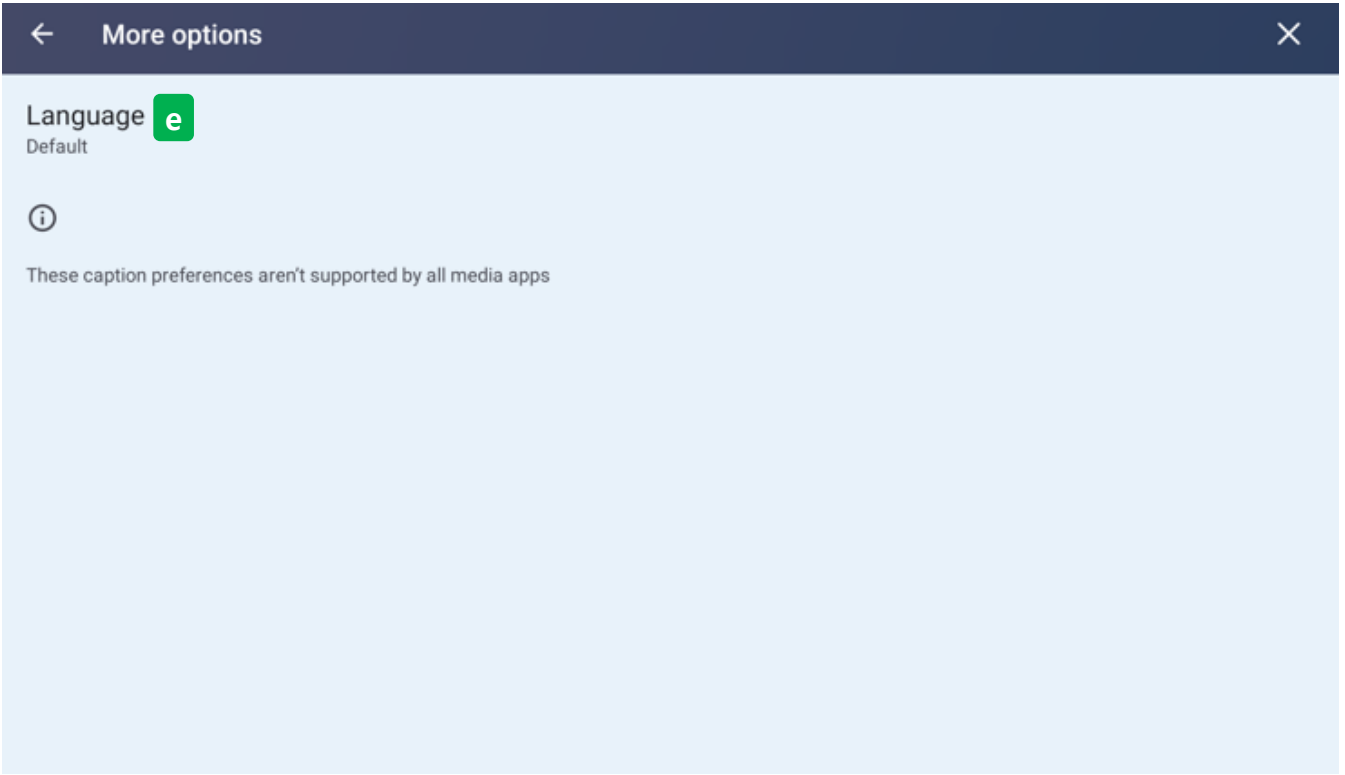
Set by app    White on black    Black on white    Yellow on black    Yellow on blue

Custom

### @ Caption style

- Sets the style of subtitles.

# 5.10 Accessibility

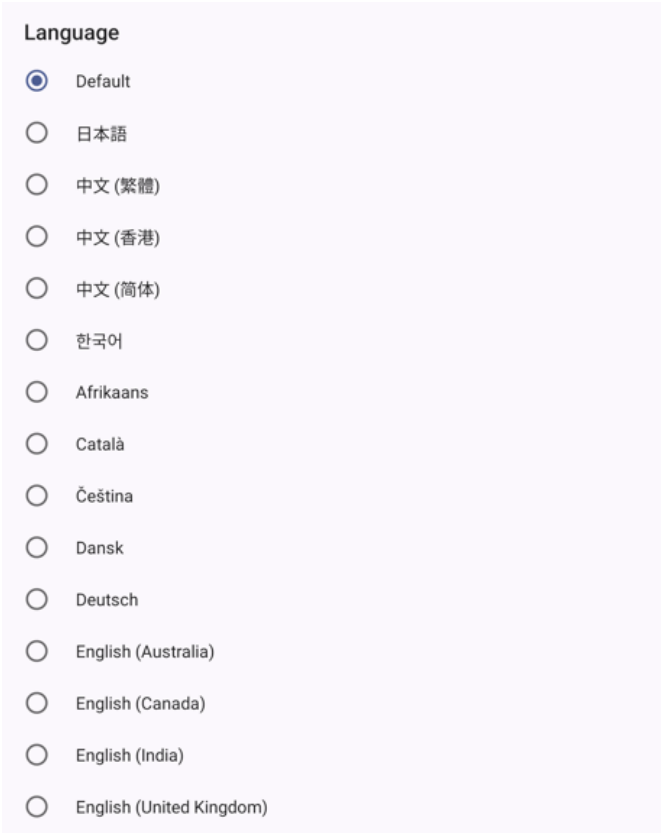


## ⓑ More options

- Additional options set the language displayed as subtitles.

## Ⓢ Feature supplement descriptions

- These subtitle preferences are not supported by all media apps.

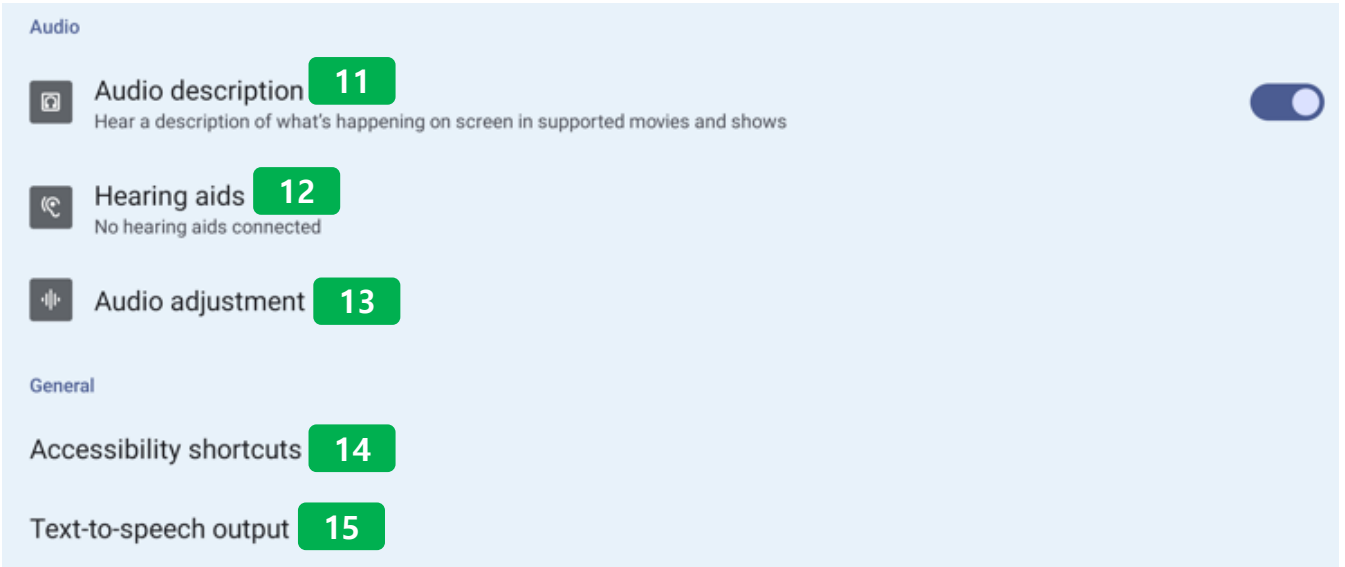


## Ⓣ Language

- An additional option is available to set the language in which the subtitles are displayed.

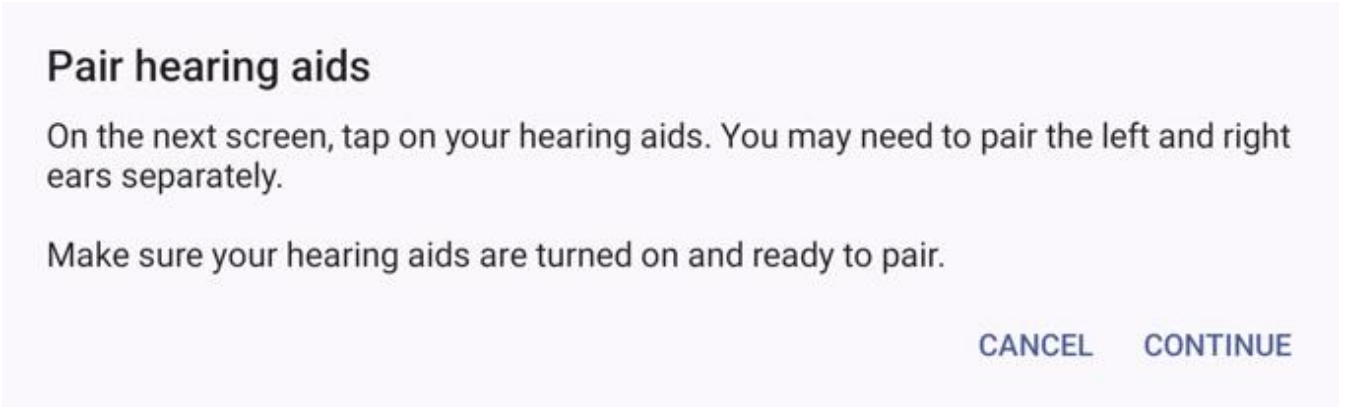
Currently, only English is supported.

# 5.10 Accessibility



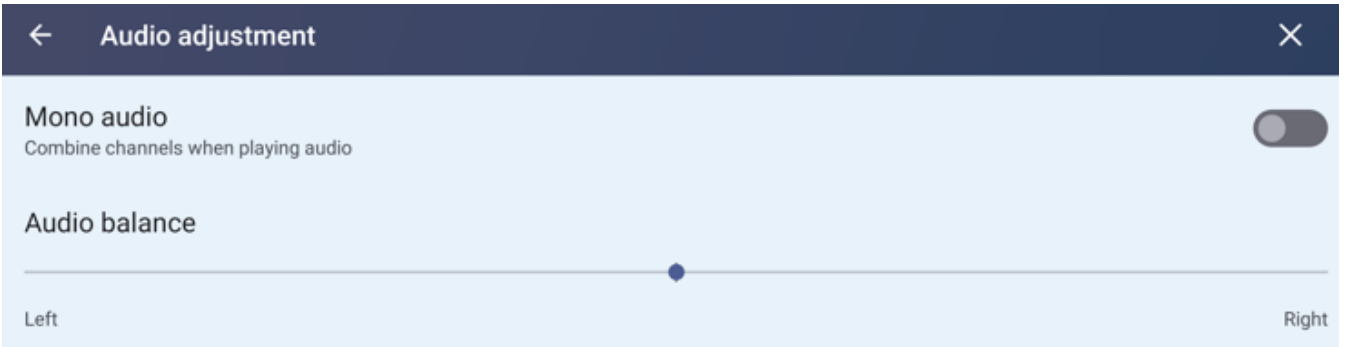
## 11 Audio description

- Listen to the situation of movies and programs with audio description as a voice description.



## 12 Hearing aids

- Pair the hearing aid with Bluetooth and connect.

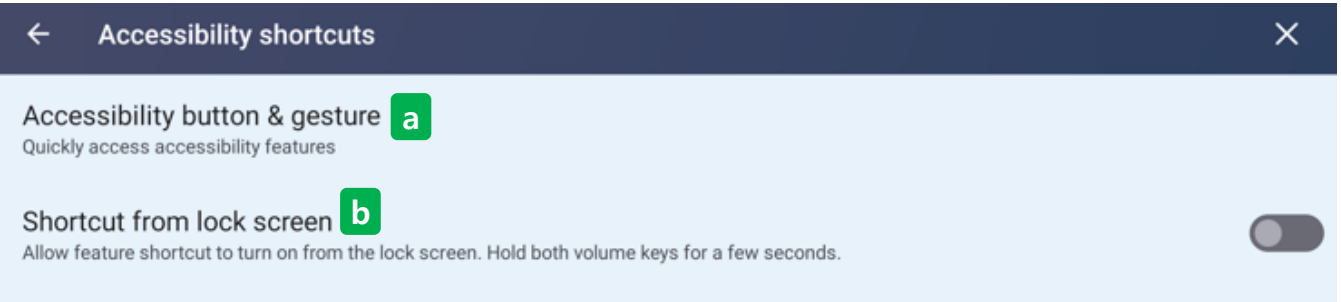


## 13 Audio adjustment

- When playing audio, unify the channel or adjust the left and right speaker direction.

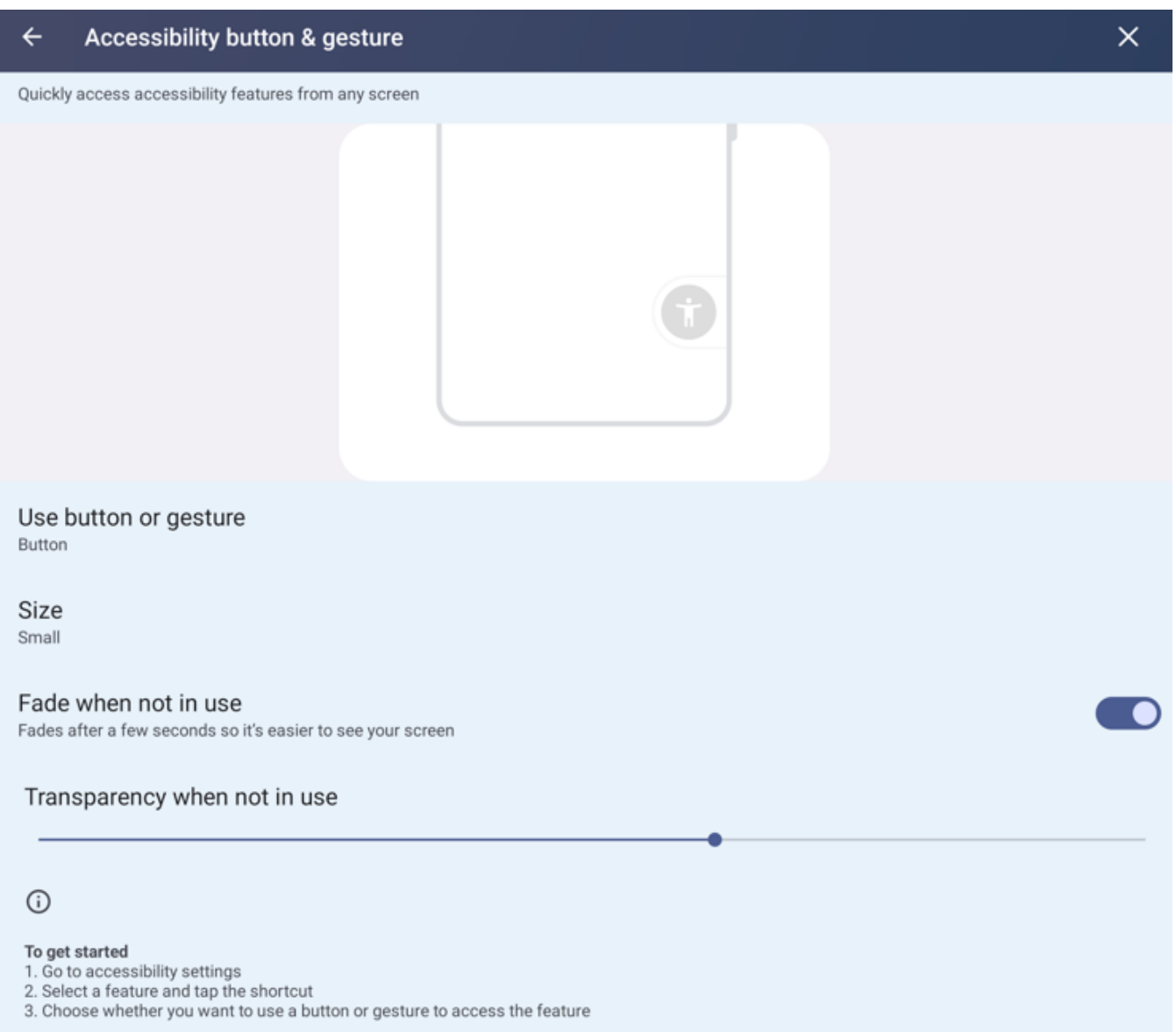


# 5.10 Accessibility



## 14 Accessibility shortcuts

- Set it to run quickly to accessibility functions.



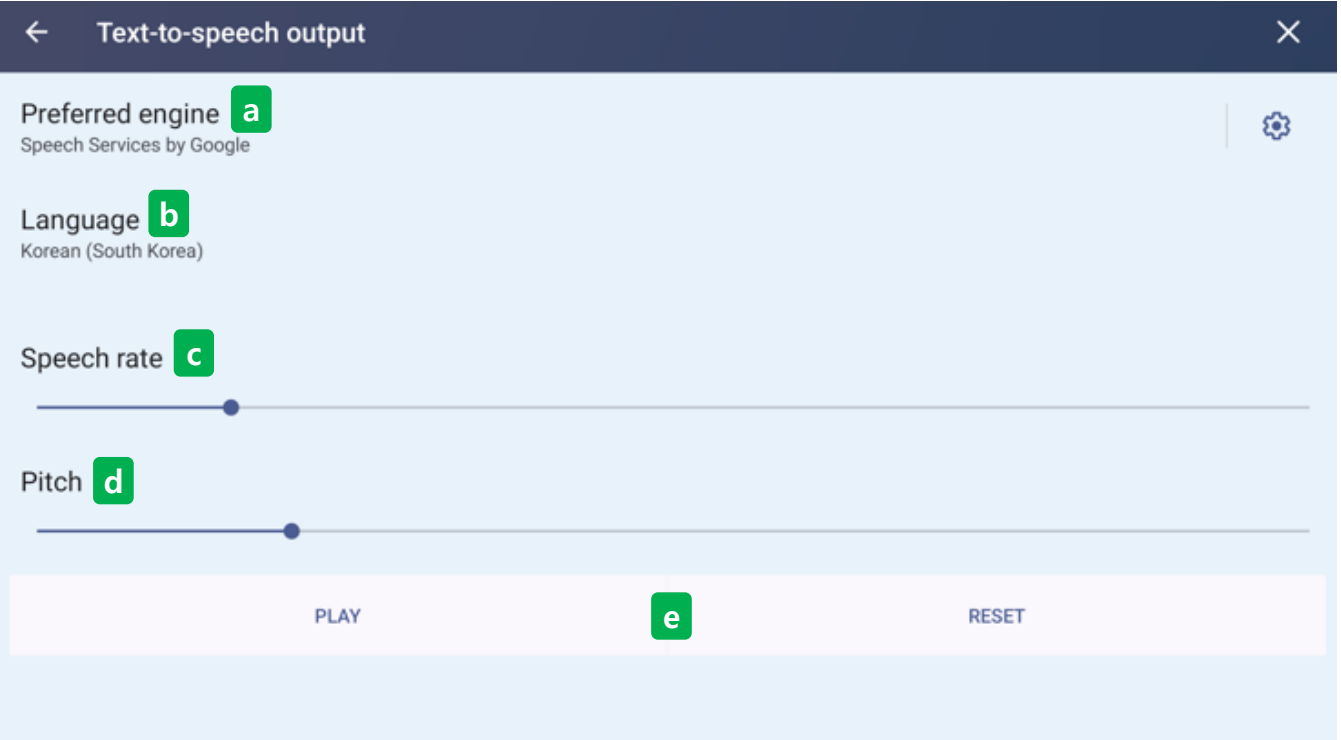
## a Accessibility button & gesture

- Users can set the accessibility function quickly on any screen.
- You can enable shortcut keys on the lock screen, or adjust the shortcut icon size and transparency.

## b Shortcut from lock screen

- Allows the use of feature shortcuts on the lock screen.

# 5.10 Accessibility



**15) Text-to-speech output**

- Sets the feature when the system reads text aloud.

**a) Preferred engine**

- Select the default engine that reads the voice. Basically support Google Voice Service.

**b) Language**

- Set a language with voice.

**c) Speech rate**

- Adjust the speed of voice.

**d) Pitch**

- Adjust the tone of the voice.

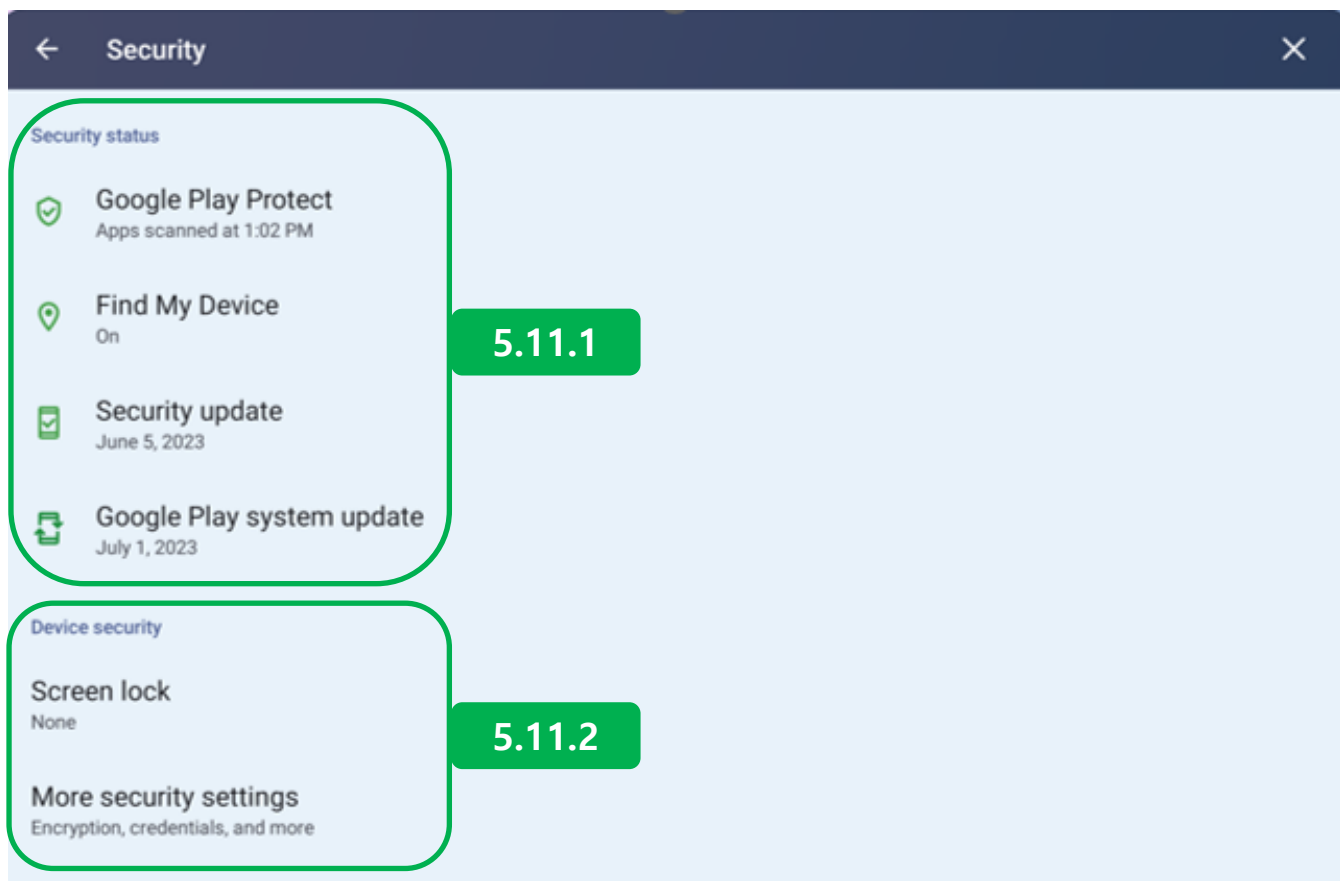
**e) Play & reset**

- Users can listen to the set voice by pressing the play button.

- To return to the default setting, press the initialization button.

# 5. System setting

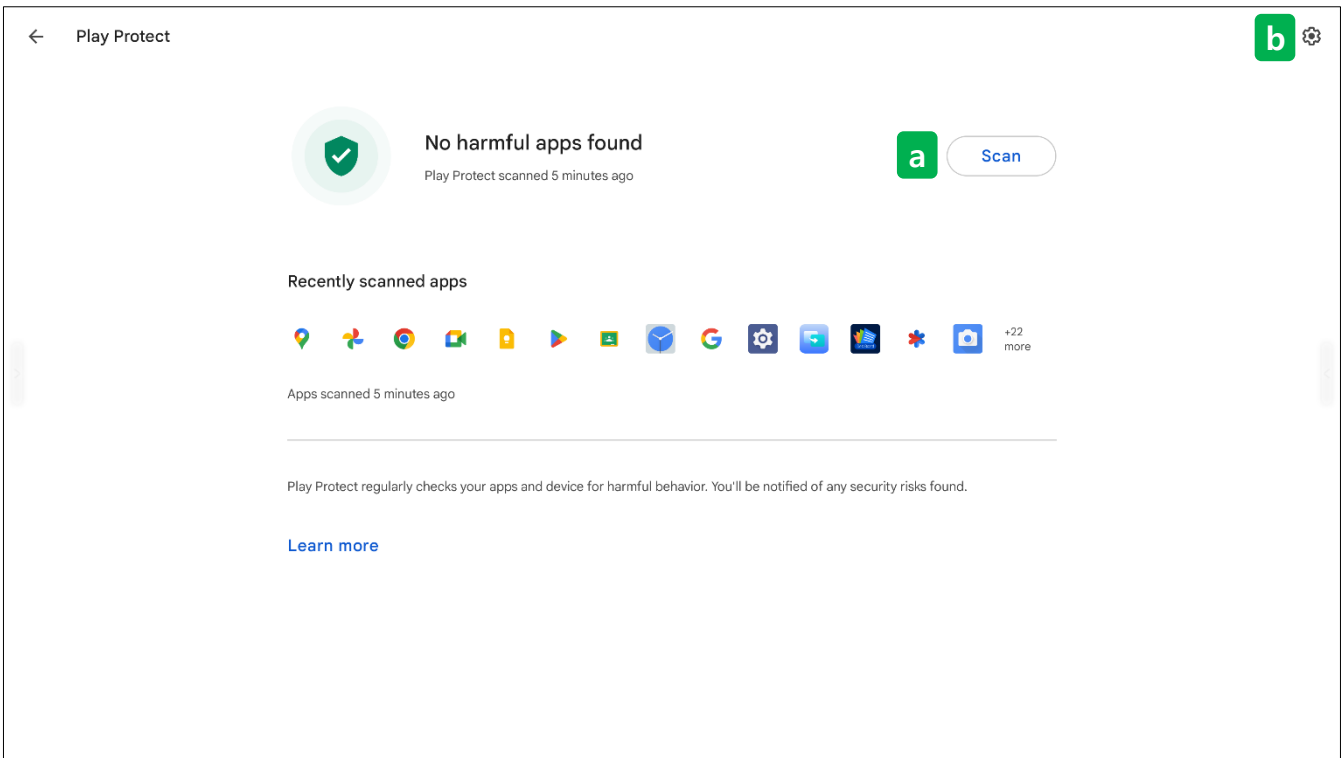
## 5.11 Security



### ❖ Security

- Users can check or upgrade the product's Android internal security system.

# 5.11.1 Security status

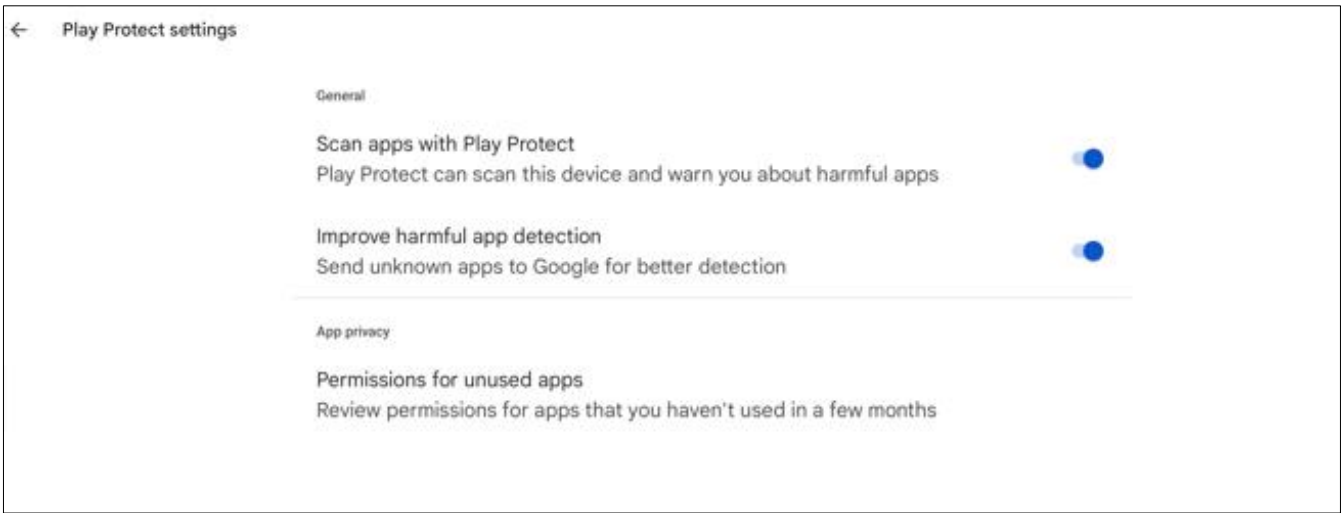


## ① Google play protect

- It inspects the harmfulness of the product internal Android App to increase the systemic stability of the product.

### a. Scan

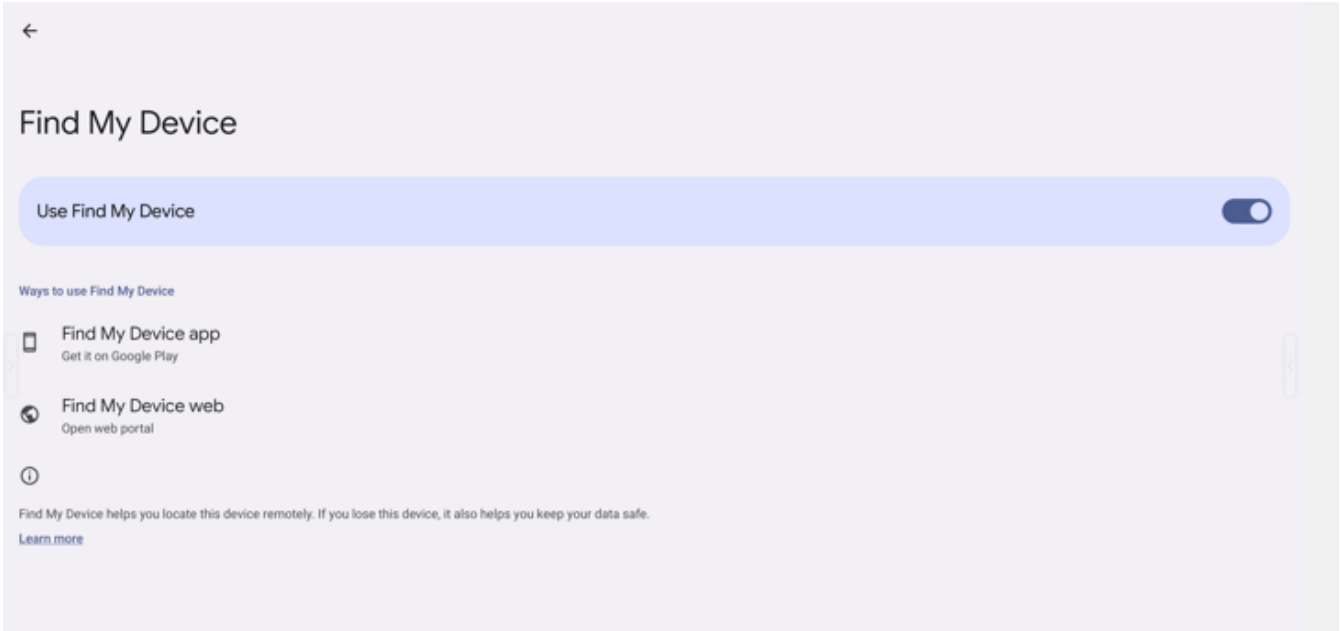
- Press the SCAN button to proceed with the hazardous test for the installed app.



### b. Google play protect settings

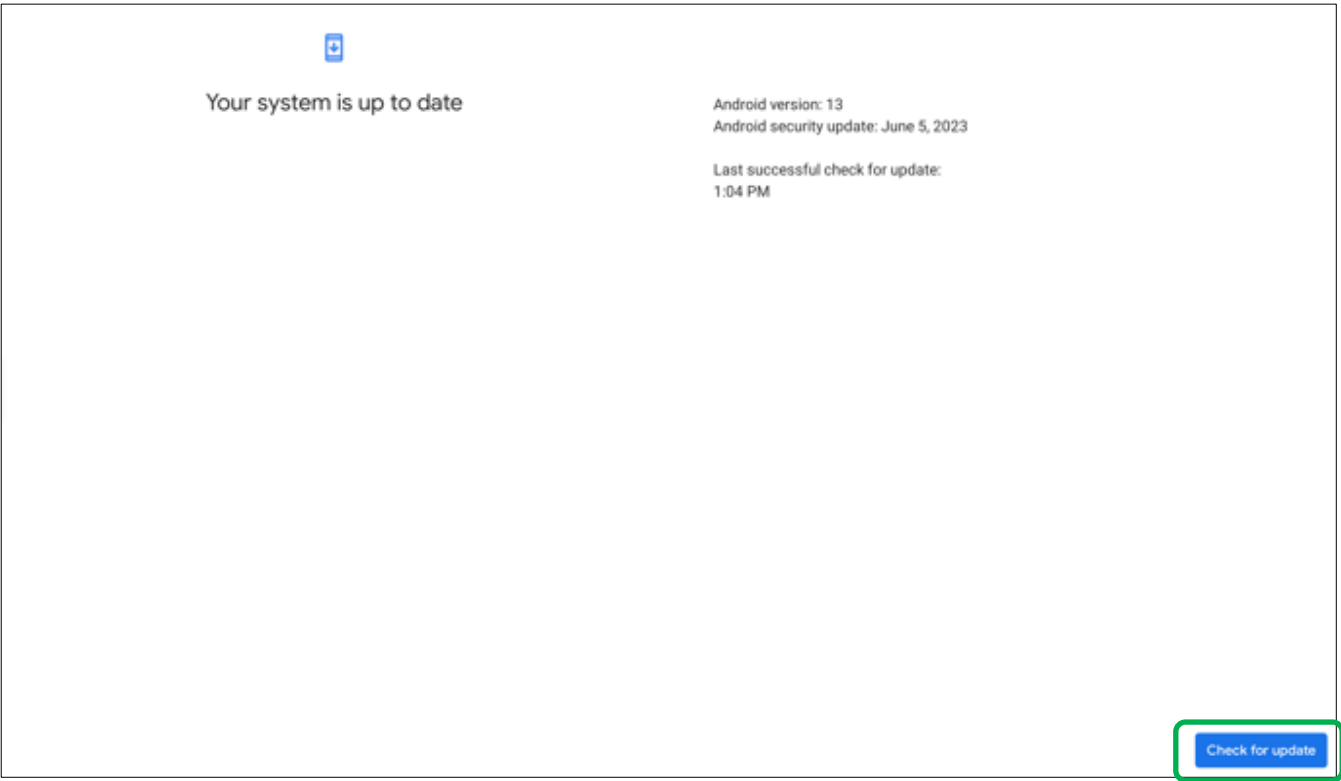
- Users can change the settings for the hazardous test of the Android App.

### 5.11.1 Security status



#### ② Find my device

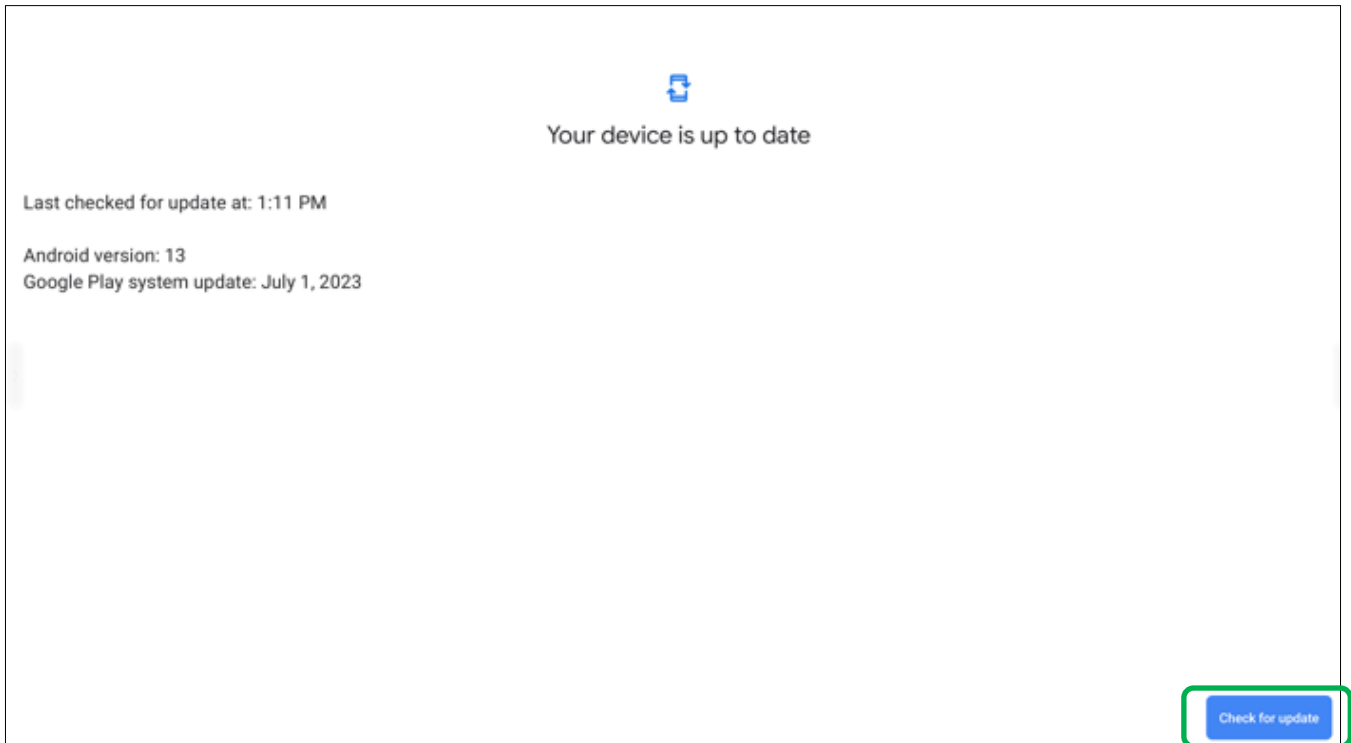
- Find the peripherals logged in with this Google account like this product.



#### ③ Security update

- Users can check the current status of the security update version.
- Users can update the update version by pressing the check for update button.

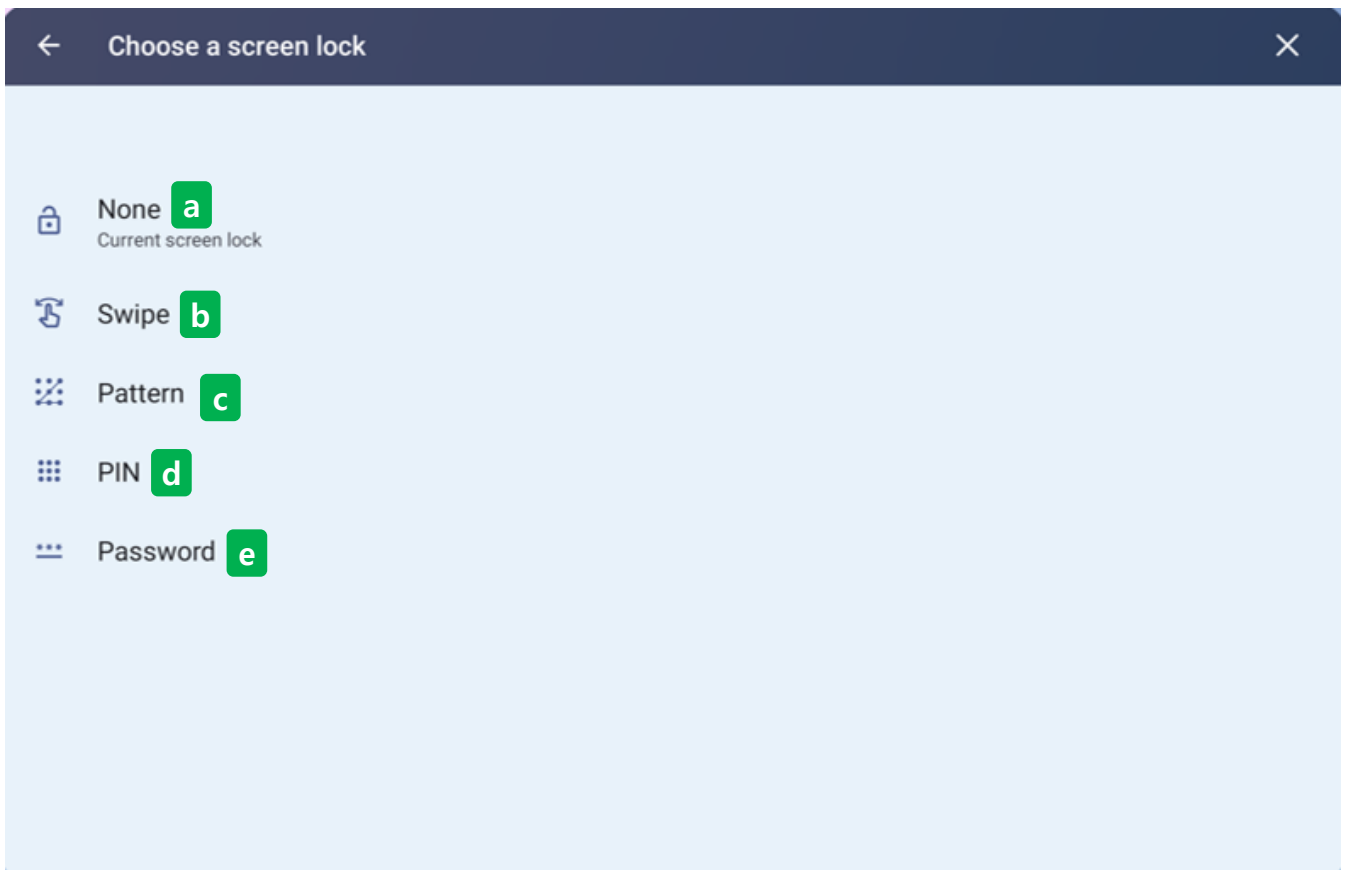
## 5.11.1 Security status



### ④ Google play system update

- Users can check the current status of the update version of Google Play System.
- Users can update the update version by pressing the check for update button.

## 5.11.2 Device security



### ① Screen lock

- Background screen lock is available.

a. None : Disable the lock feature.

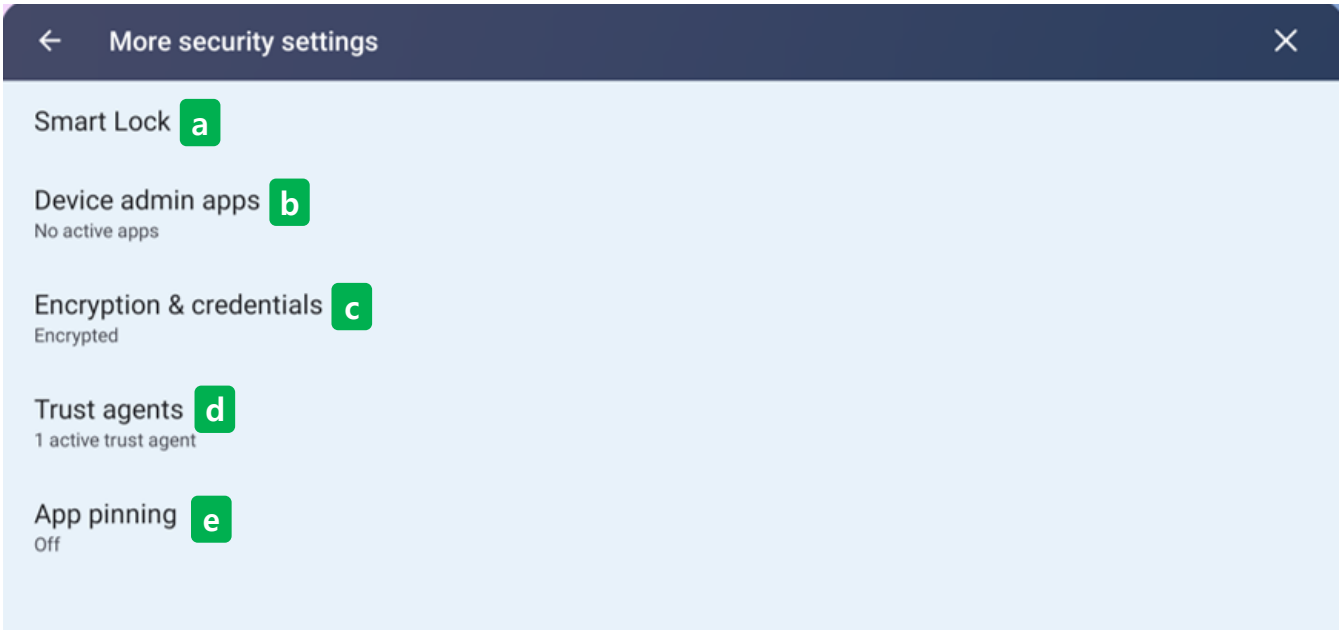
b. swipe : The locking function can be released by hand sweeping.

c. Pattern : Users can unlock the lock function by drawing a specified pattern.

d. PIN : Users can unlock the lock function by entering the specified PIN number.

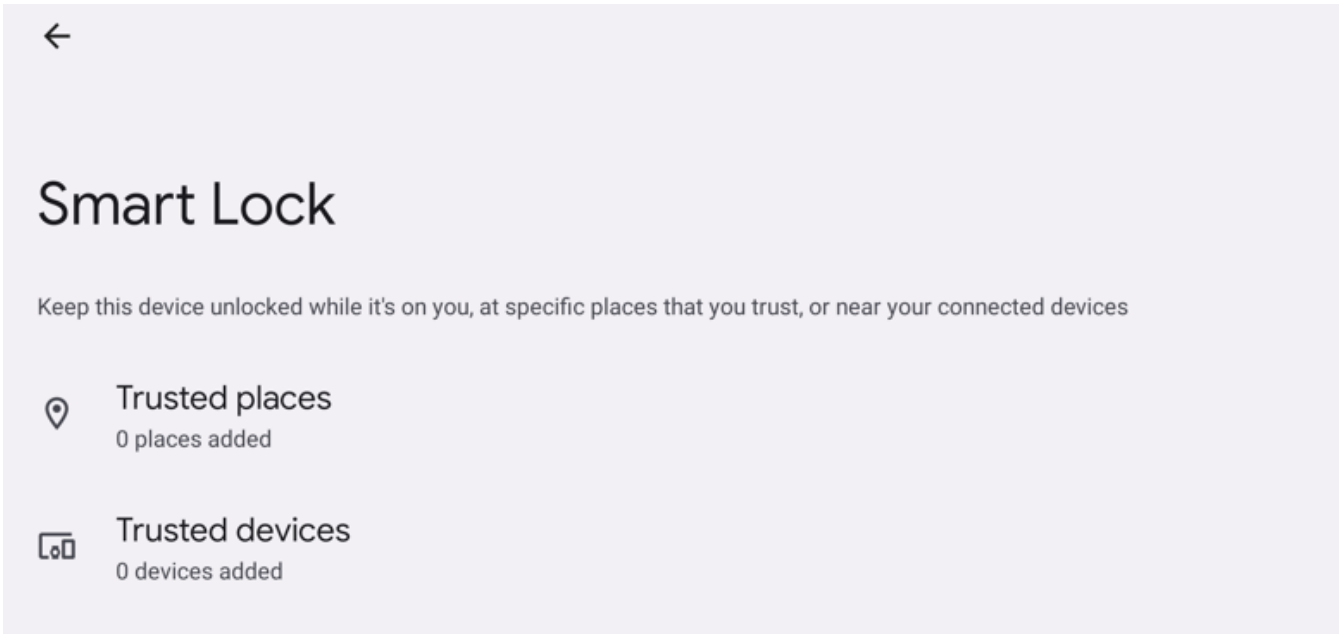
e. You can unlock the lock function by entering the specified password.

## 5.11.2 Device security



### ② More security settings

- Additional security settings can be checked.

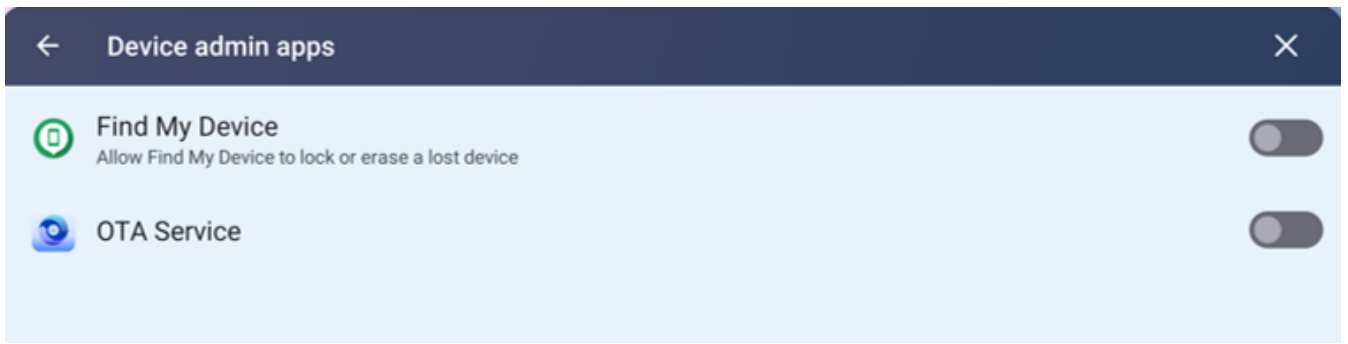


#### a. Smart Lock

- Trusted places : Locking is automatically released when placed in place by specifying a place.
- Trusted devices : The device is specified and the lock is automatically released when the device is around.

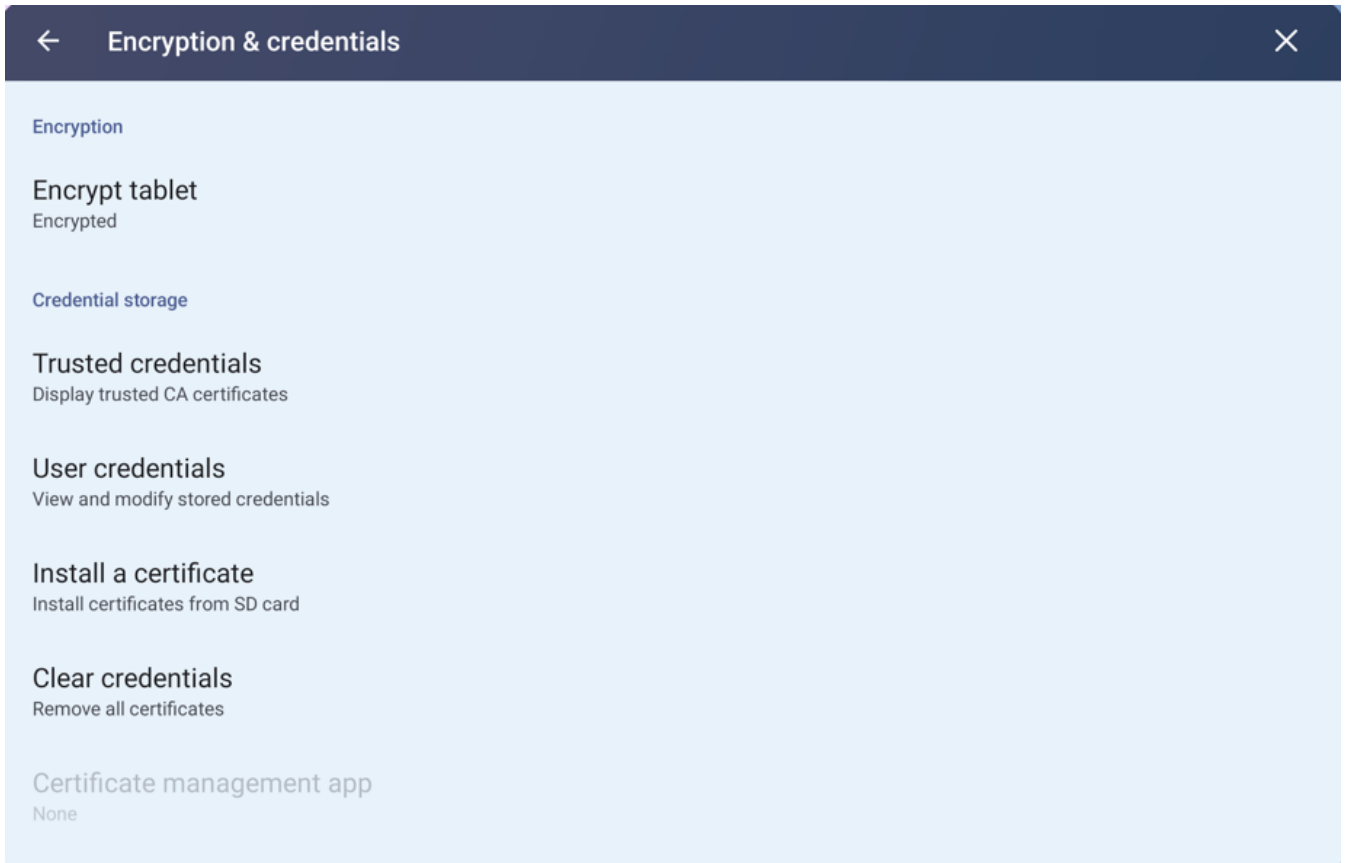


## 5.11.2 Device security



### b. Device admin apps

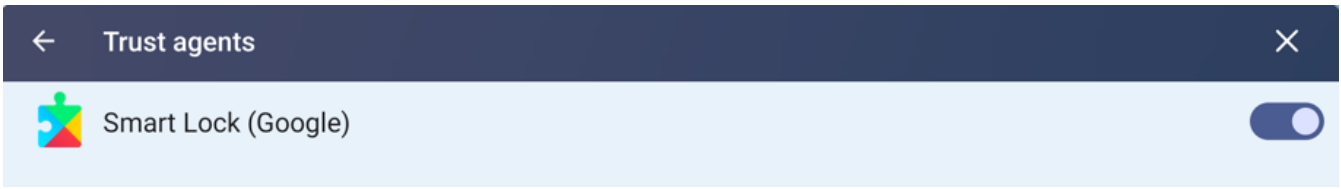
- Find my device app can be enable/disable.
- OTA Service app can be enable/disable.



### c. Encryption & credentials

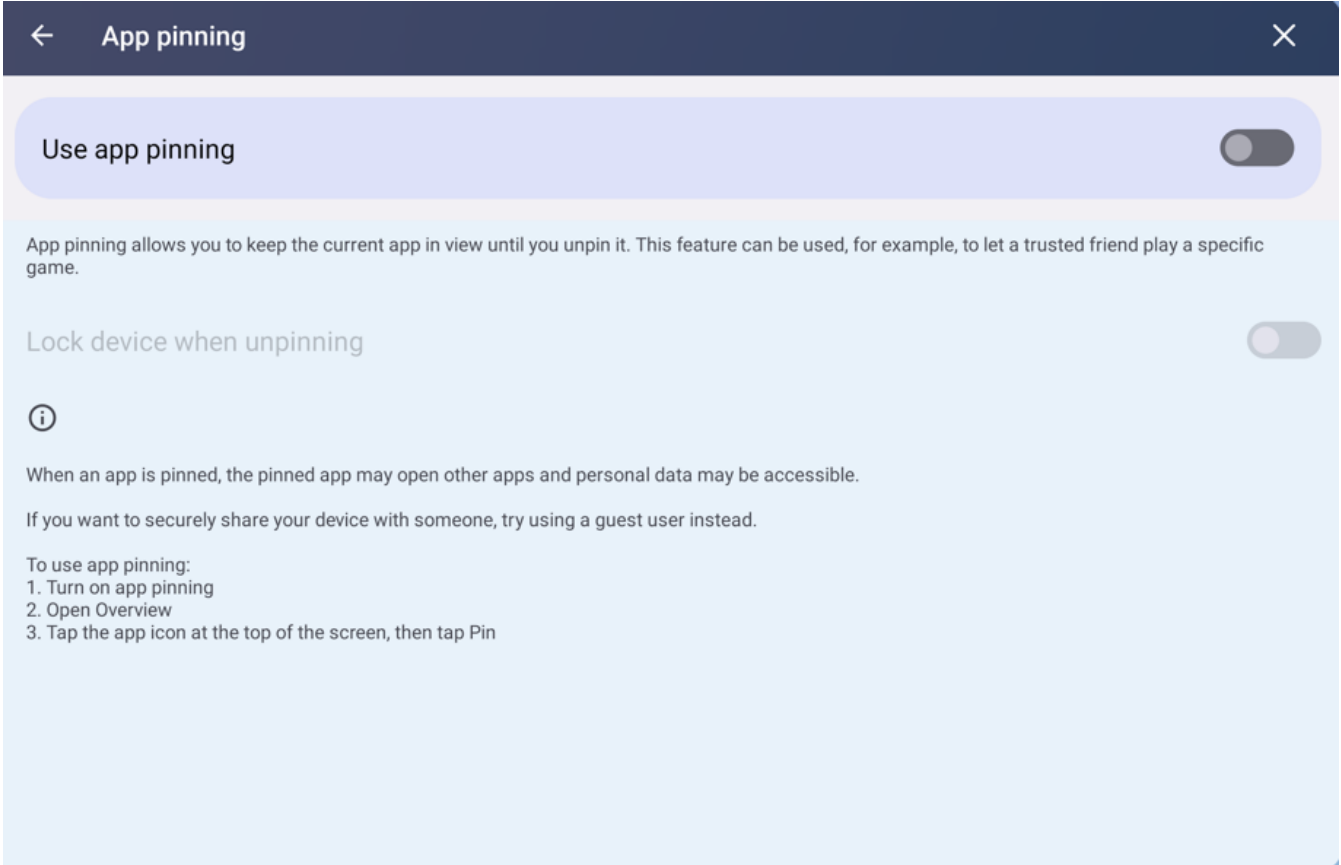
- Encrypt tablet : Users can check the tablet encryption.
- Trusted credentials : Displays a list of trusted users' credentials.
- User credentials : View and modify stored user credentials.
- Install a certificate : Install a certificate on device.
- Clear credentials : Delete the certificate installed on the device.

## 5.11.2 Device security



### d. Trust agents

- Smart lock function can be enable/disable.

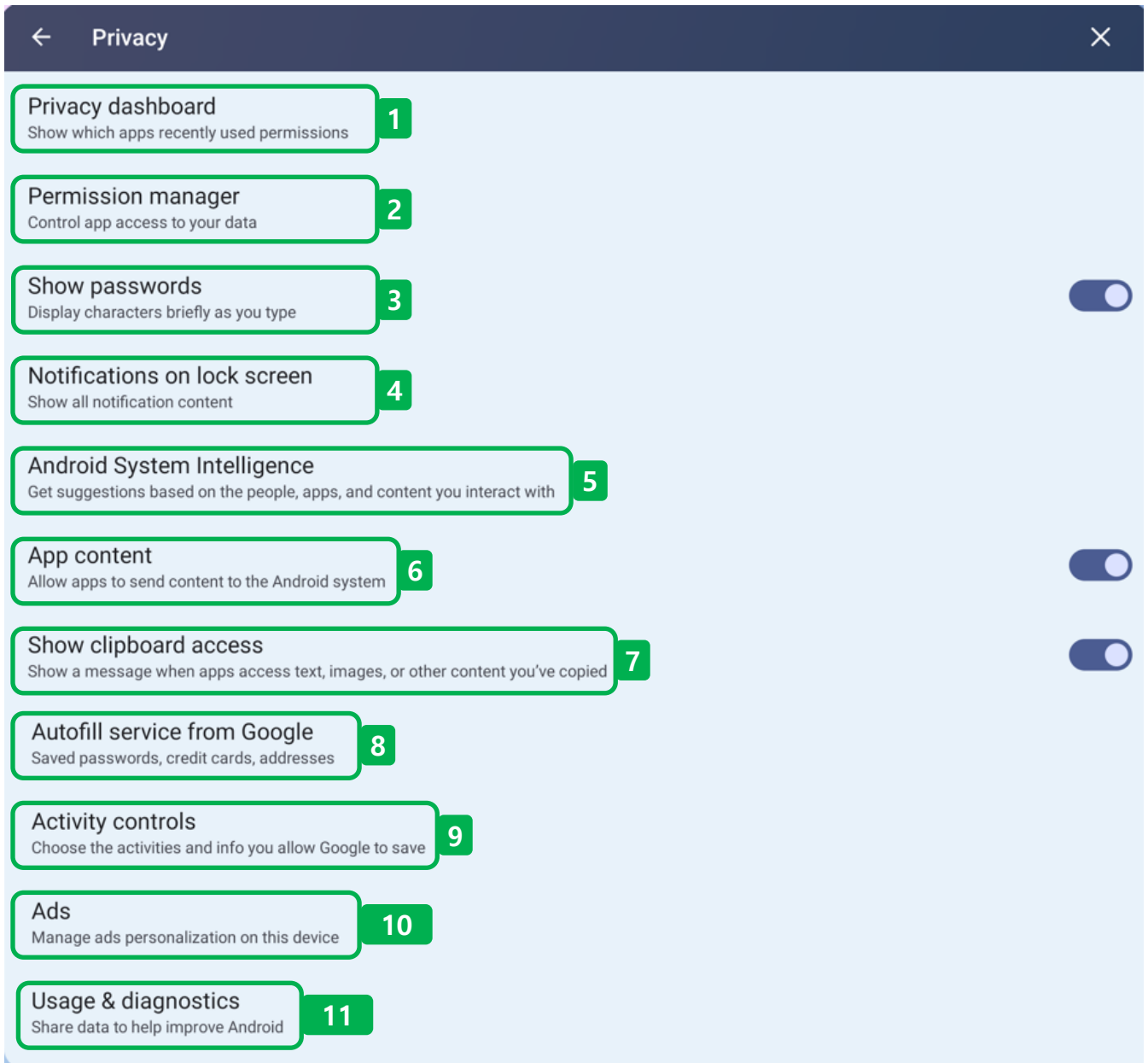


### e. App pinning

- Even if the screen of the device is switched by fixing the currently used app, the app will run as it is.

# 5. System setting

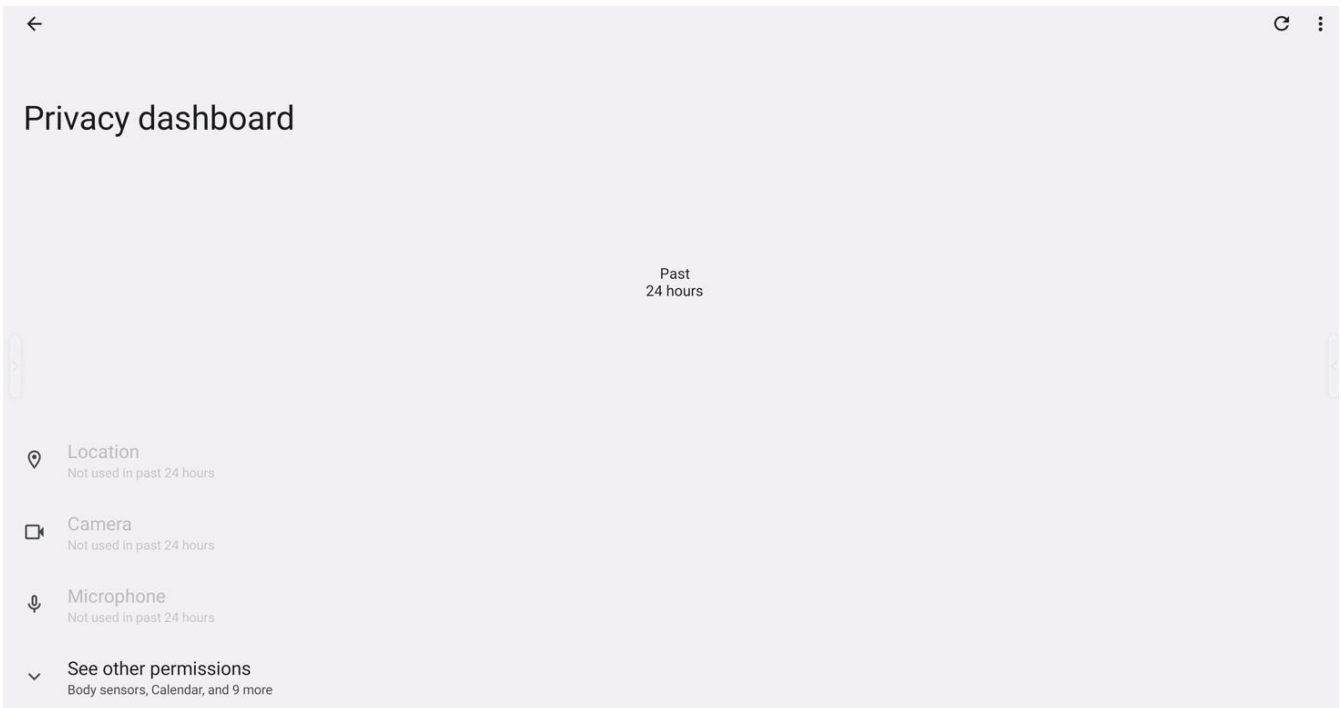
## 5.12 Privacy



### ❖ Privacy

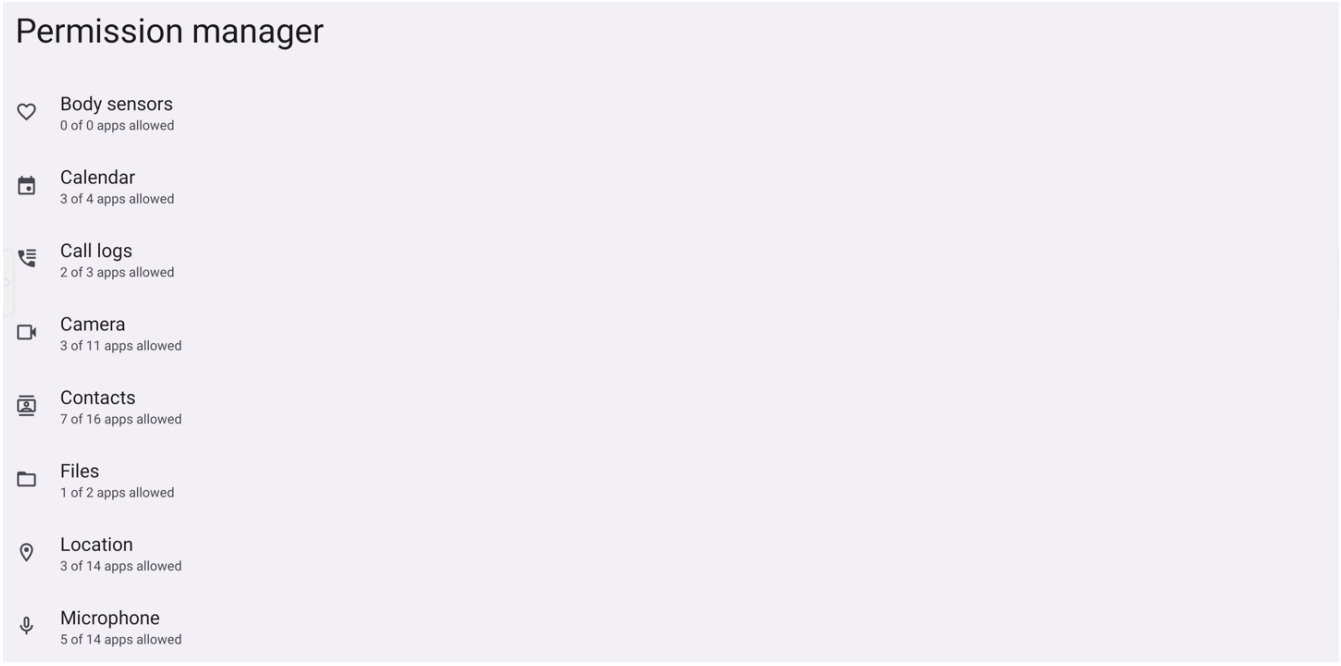
- You can manage privacy, permissions, locks, and more.

# 5.12 Privacy



## Privacy dashboard

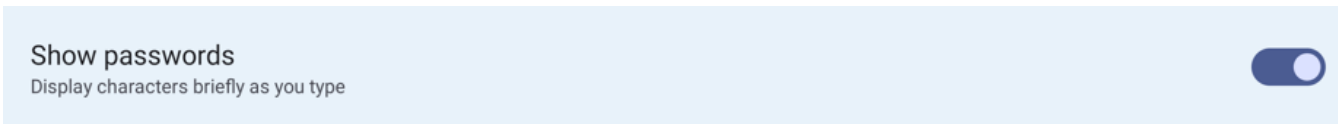
- Shows apps that have recently used permissions.



## Permission manager

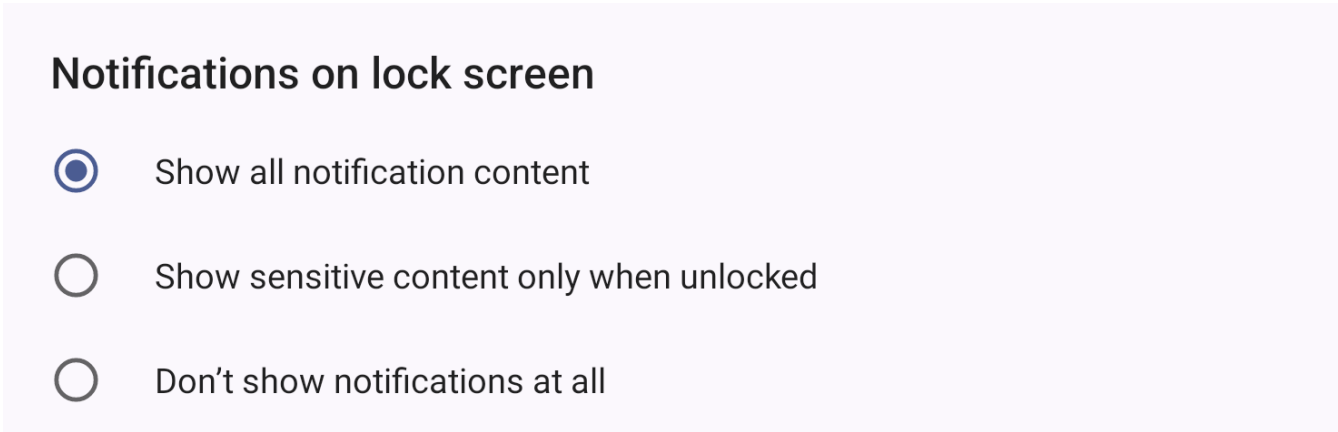
- Manage permissions for apps and other contents on your device.

## 5.12 Privacy



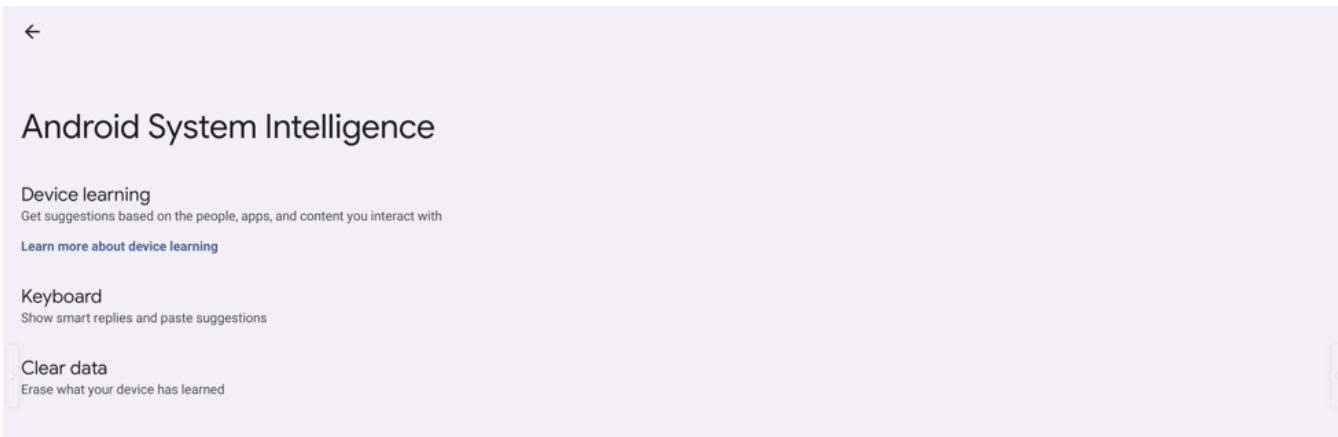
### ③ Show passwords

- Display characters briefly as you type.



### ④ Notifications on lock screen

- Choose how you want notifications displayed on the Lock Screen



### ⑤ Android System Intelligence

- Support a variety of smart features that improvement of user experience by learning from your device.

## 5.12 Privacy

### App content

Allow apps to send content to the Android system



#### ⑥ App content

- Send the content of your apps to the Android system.

### Show clipboard access

Show a message when apps access text, images, or other content you've copied



#### ⑦ Show clipboard access

- Show a message when apps access text, images, or other content you've copied



### Autofill with Google

Use Autofill with Google



② Google Account  
Choose an account

#### ⑧ Autofill with Google

- Instantly recall long sentences of saved passwords, addresses, and more.

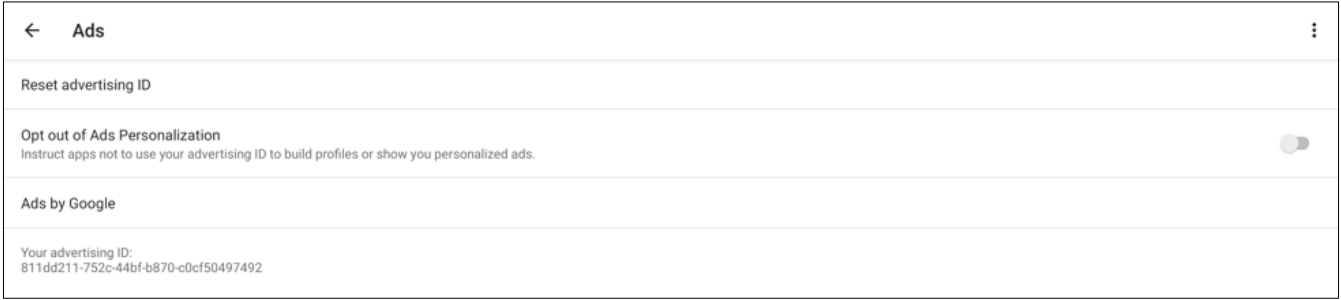
### Activity controls

Choose the activities and info you allow Google to save

#### ⑨ Activity controls

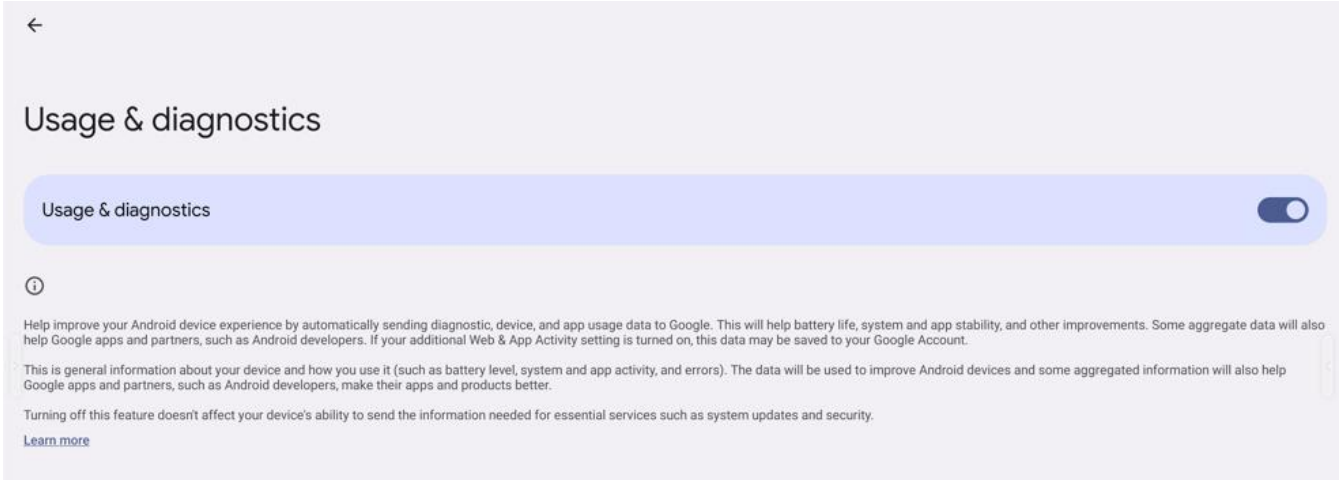
- Choose the activities and info you allow Google to save (web, location, Youtube, ads, etc)

# 5.12 Privacy



## ⑩ Ads

- Manage Ads settings by Google.

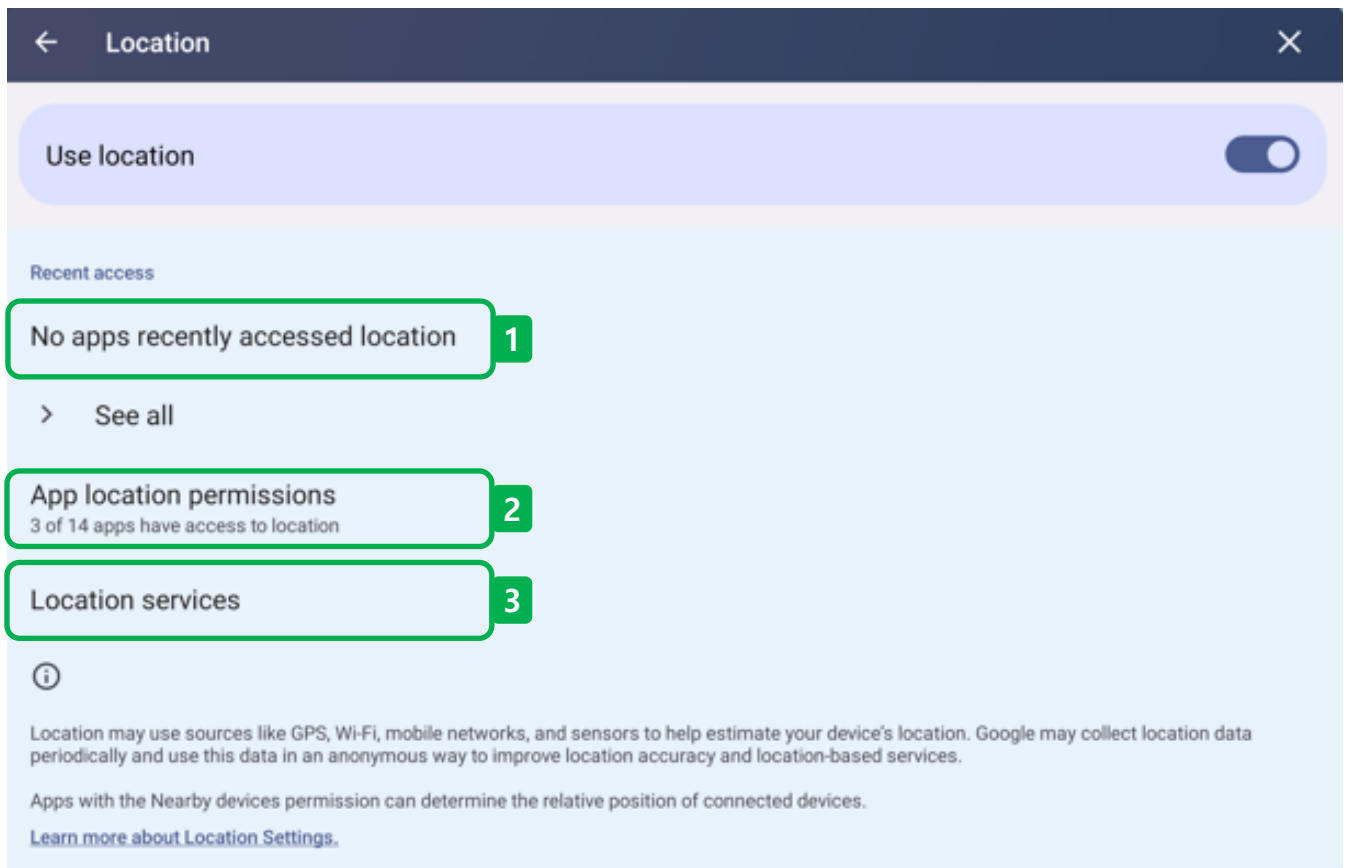


## ⑪ Usage & diagnostics

- Connecting data in your device with Google to improve user's device experience.

## 5. System setting

### 5.13 Location



#### ① Recent access

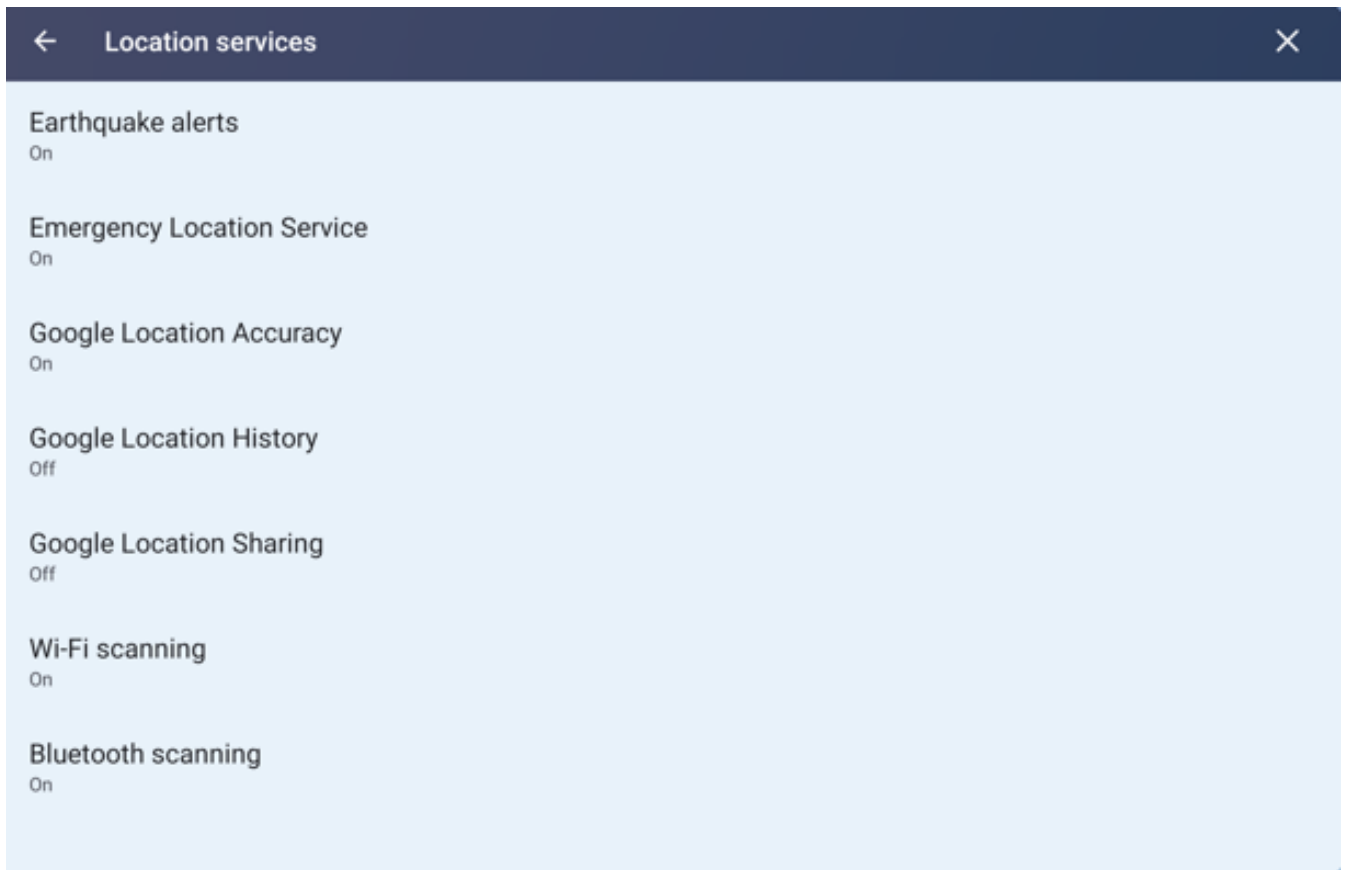
- Get the apps information that have recently requested your location

#### ② App location permissions

- Get the apps information that have recently requested your location



## 5.13 Location

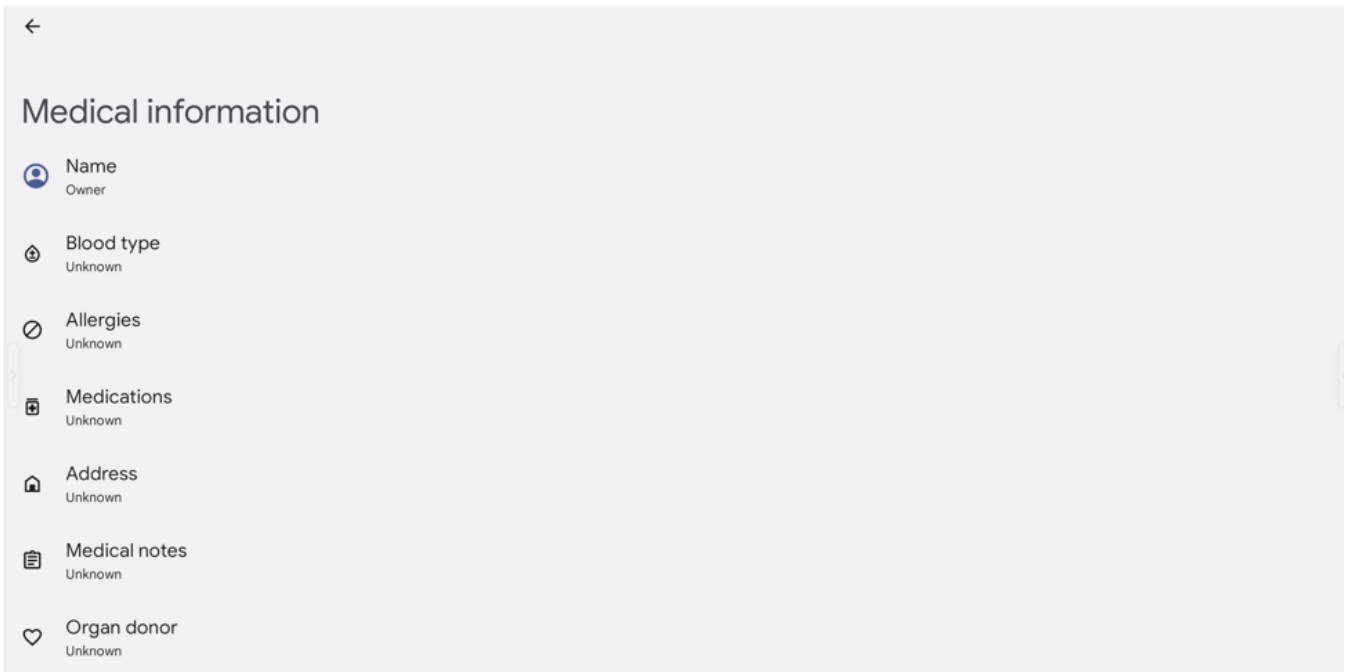
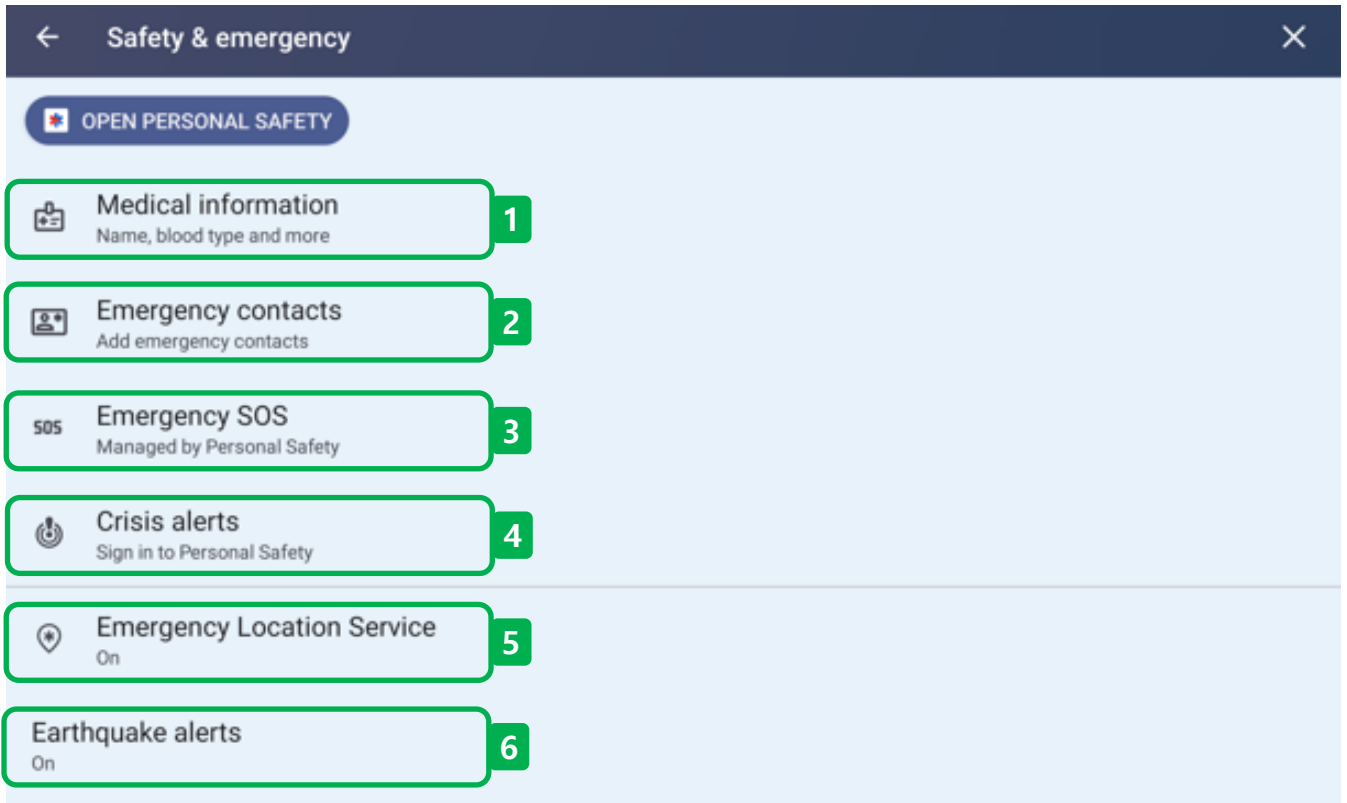


### ③ Location services

- Get the view a list of location services that your product is using.

## 5. System setting

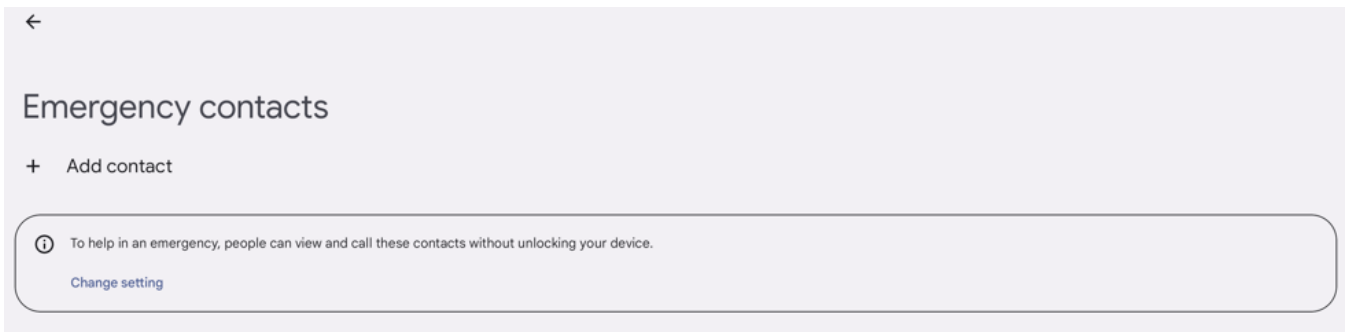
### 5.14 Safety & emergency



#### ① Medical information

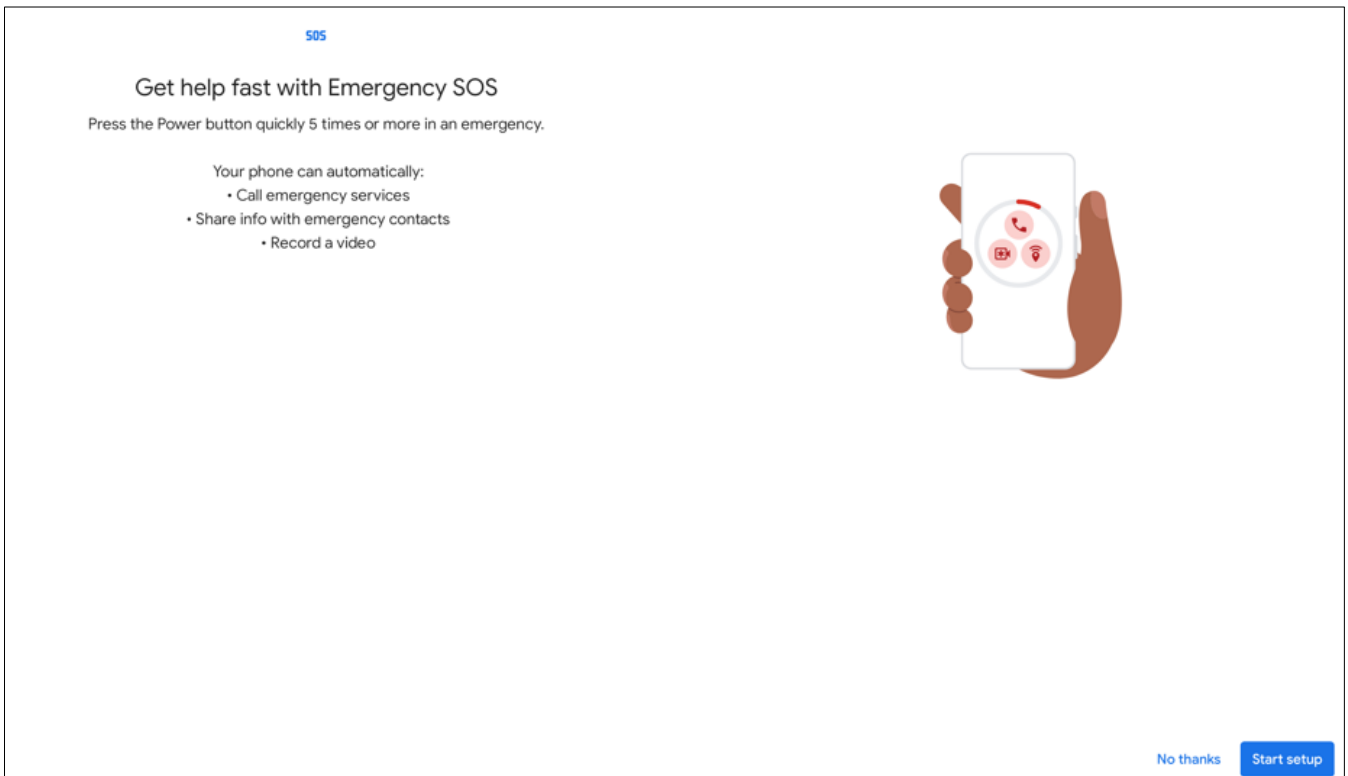
- Enter your medical information.

## 5.14 Safety & emergency



### ② Emergency contacts

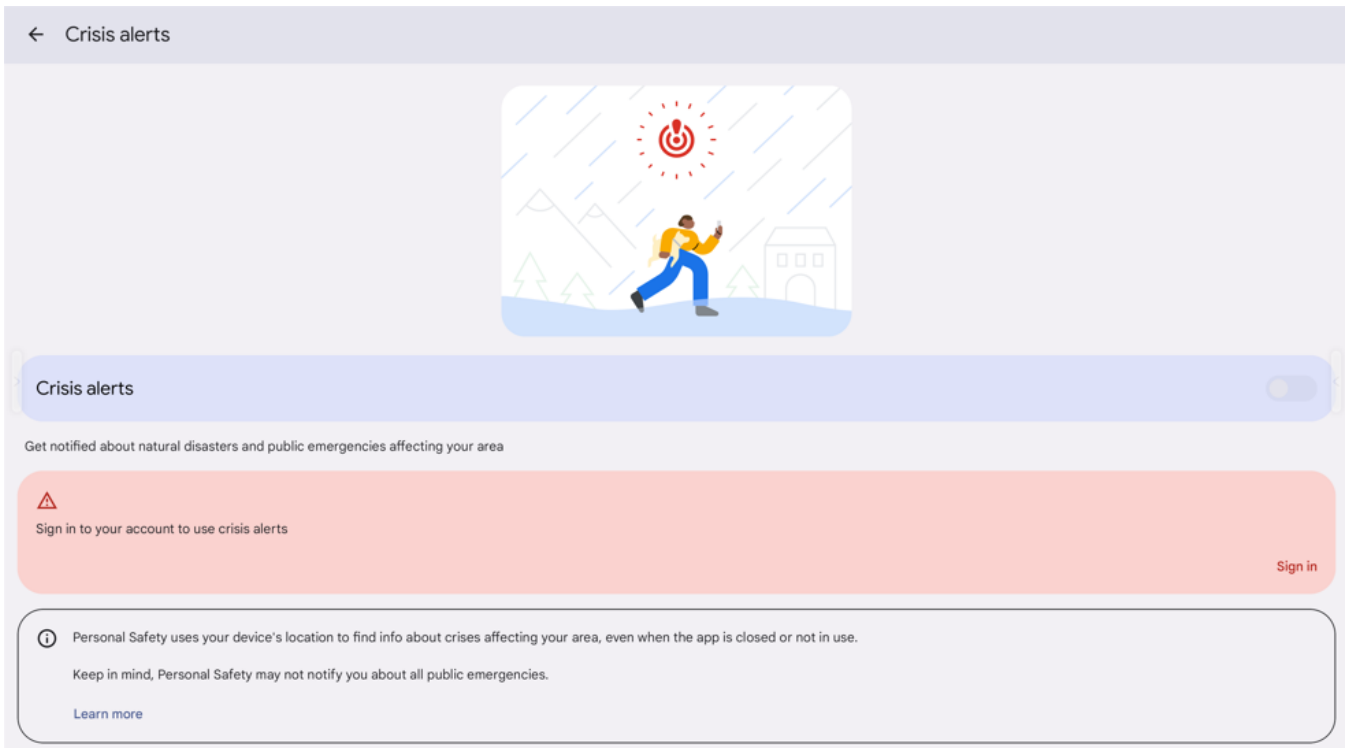
- Add an emergency contact.



### ③ Emergency contacts

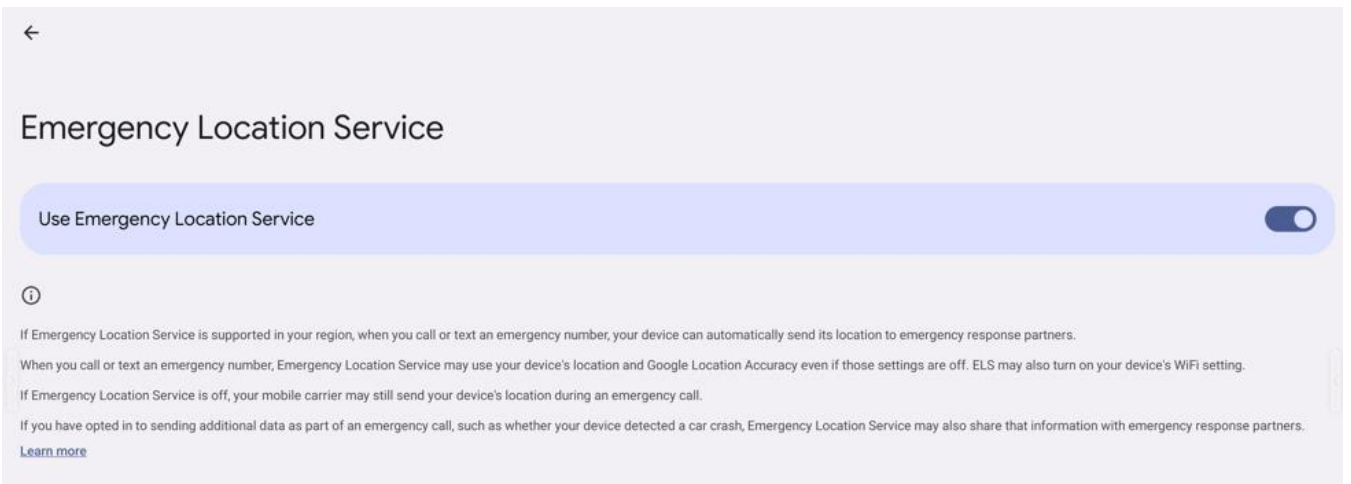
- Press the power key quickly five(5) times to call an set number when you are in an emergency situation

## 5.14 Safety & emergency



### ④ Crisis alerts

- Enable/disable the disaster notification feature.



### ⑤ Emergency Location Service

- Enable/disable the Emergency location alert feature.

# 5.14 Safety & emergency

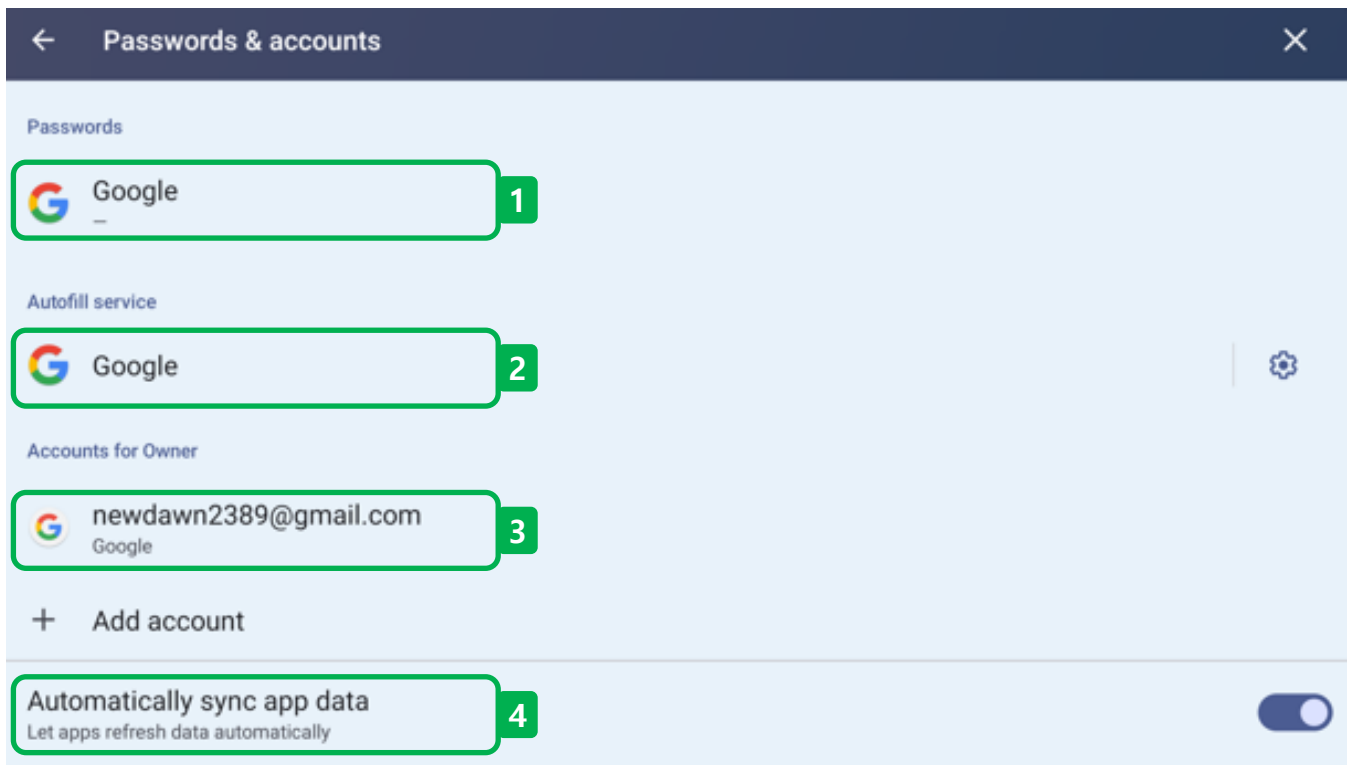


## ⑥ Earthquake alerts

- Enable/disable earthquake alerts.

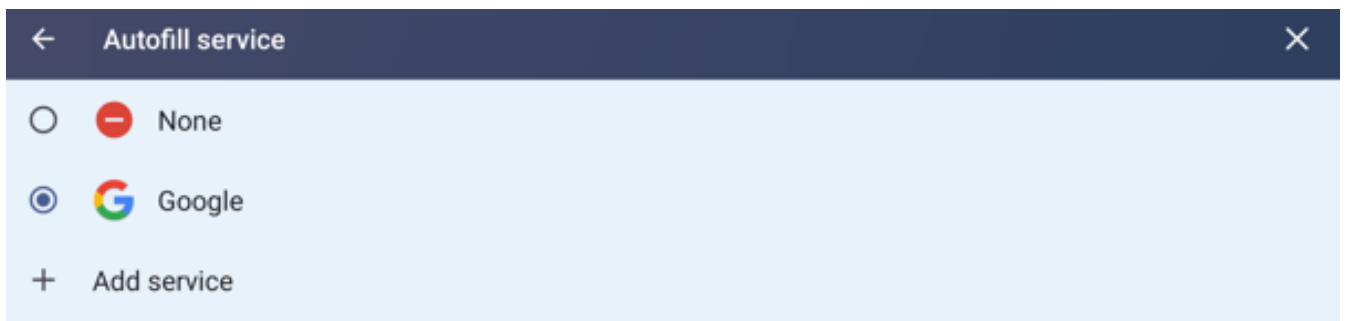
## 5. System setting

### 5.15 Passwords & accounts



#### ① Passwords

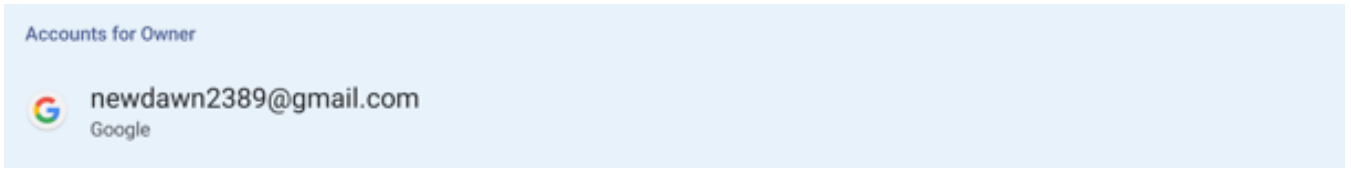
- Manage your saved passwords in your Google account



#### ② Autofill service

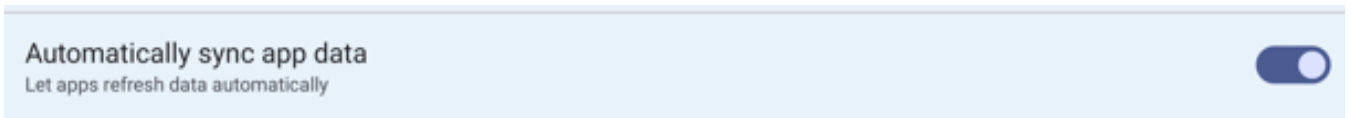
- Add autocomplete functionality.

## 5.15 Passwords & accounts



### ③ Accounts for owner

- You can view your currently registered google account, or add a new one.

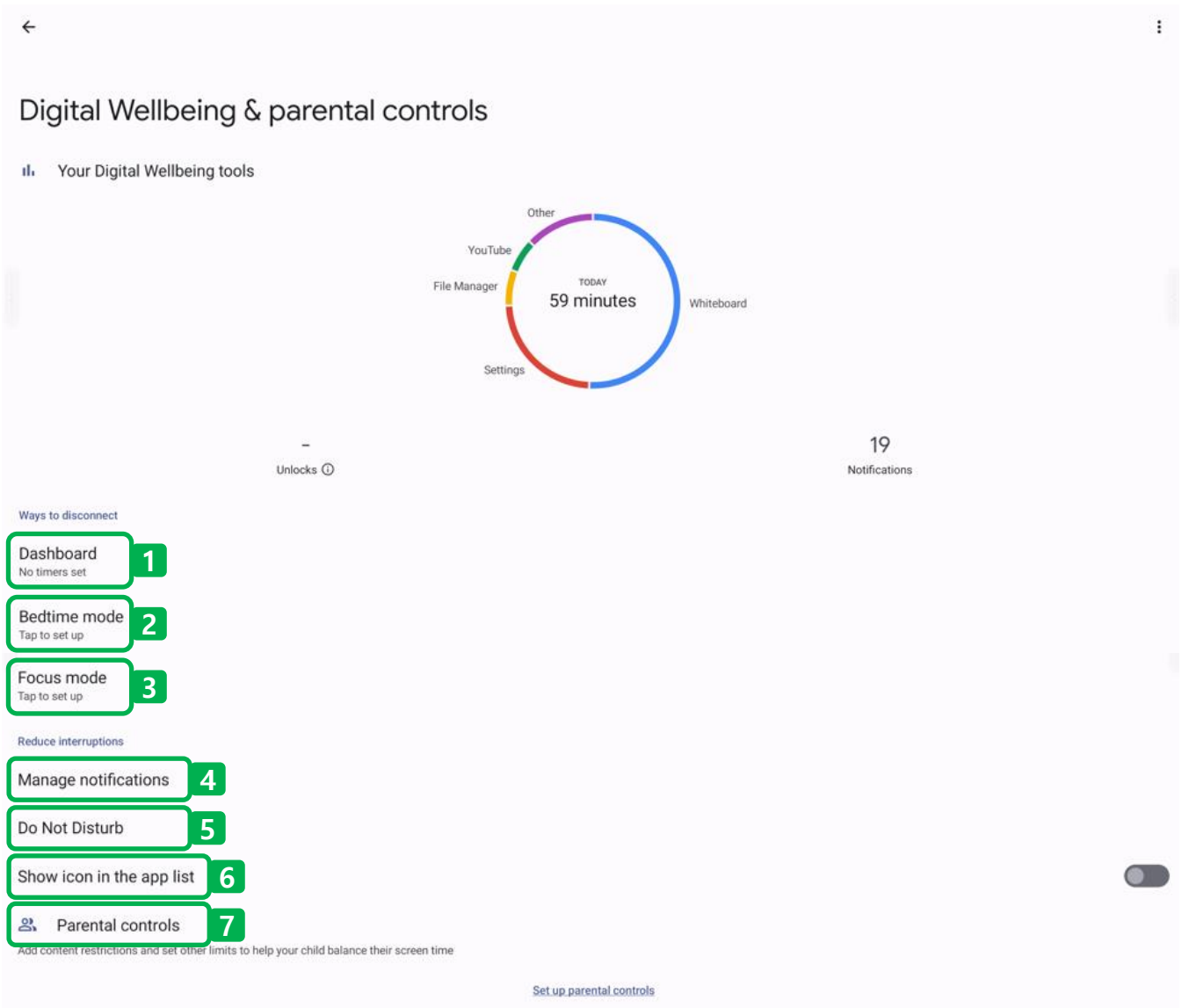


### ④ Automatically sync app data

- Enable / disable let apps refresh data automatically on the device

# 5. System setting

## 5.16 Digital wellbeing & parental controls

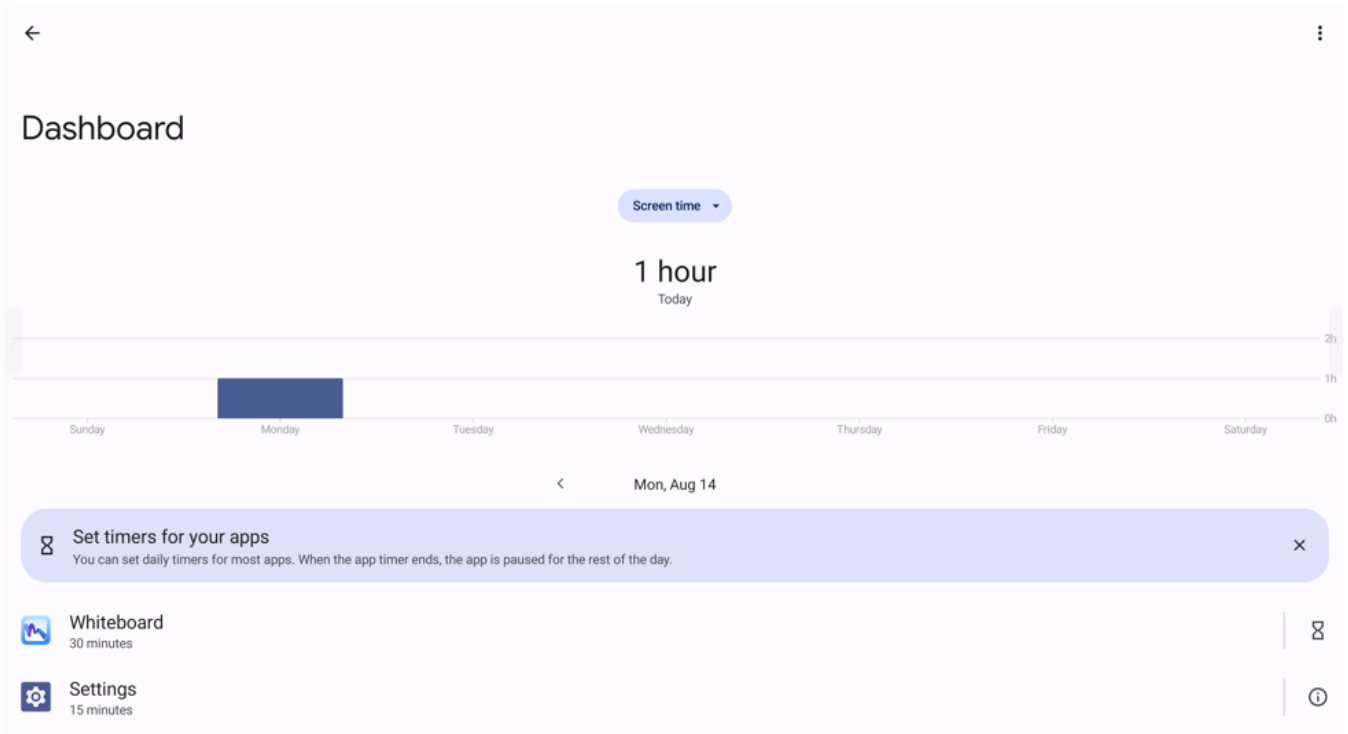


### ❖ Digital wellbeing & parental controls

- Manage to see the device usage history and manage kids' device use

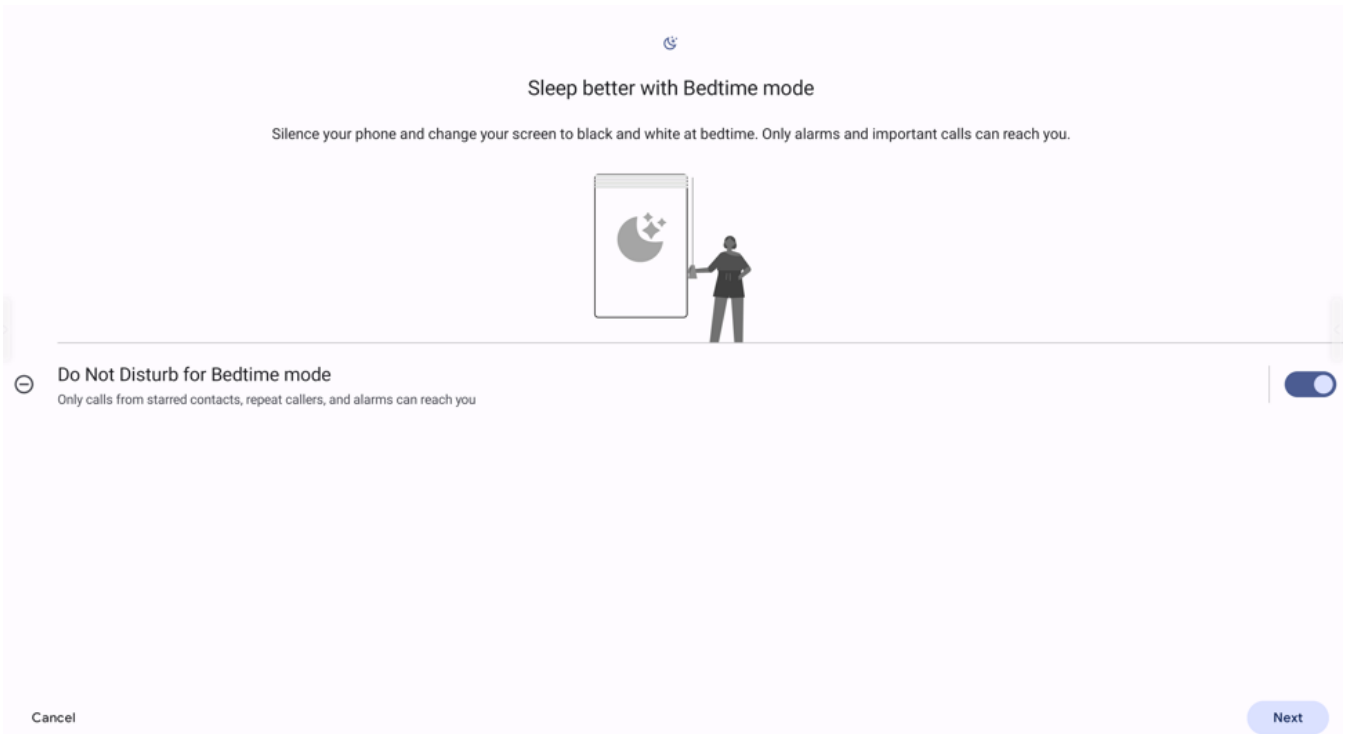


## 5.16 Digital wellbeing & parental controls



### ① Dashboard

- You can see the usage time of the apps on your device, and set a daily timer for each app so that when the set time is reached, the app stops for the rest of the day.



### ② Bedtime mode

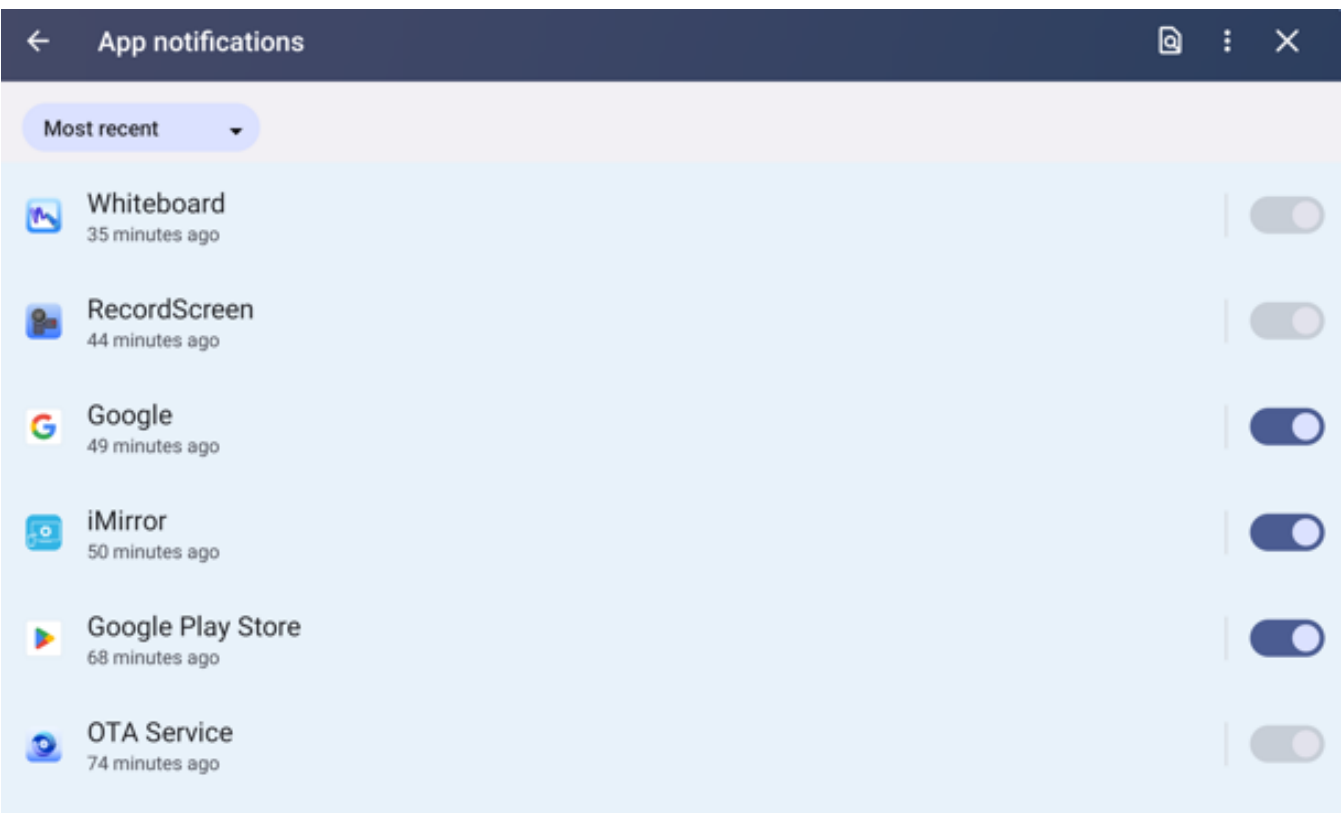
- Mute your device and dim the screen brightness.
- Bedtime mode is available for calls and notifications from separately saved contacts and repeat callers

# 5.16 Digital wellbeing & parental controls



### ③ Focus mode

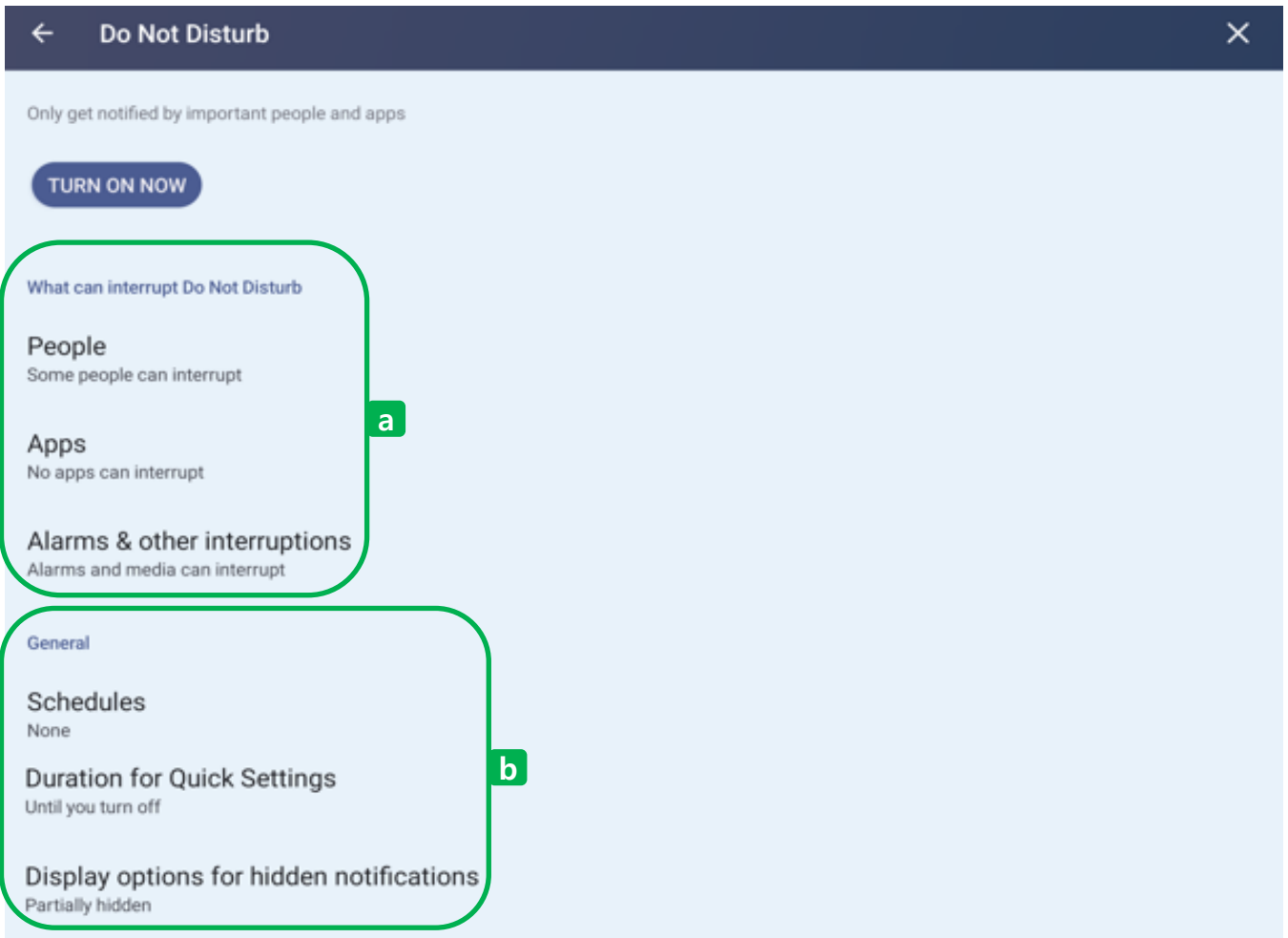
- Focus mode will also silence those apps' notifications until you're ready to switch out of the mode



### ④ Manage notifications

- Enable/disable notifications for apps on your device.

## 5.16 Digital wellbeing & parental controls



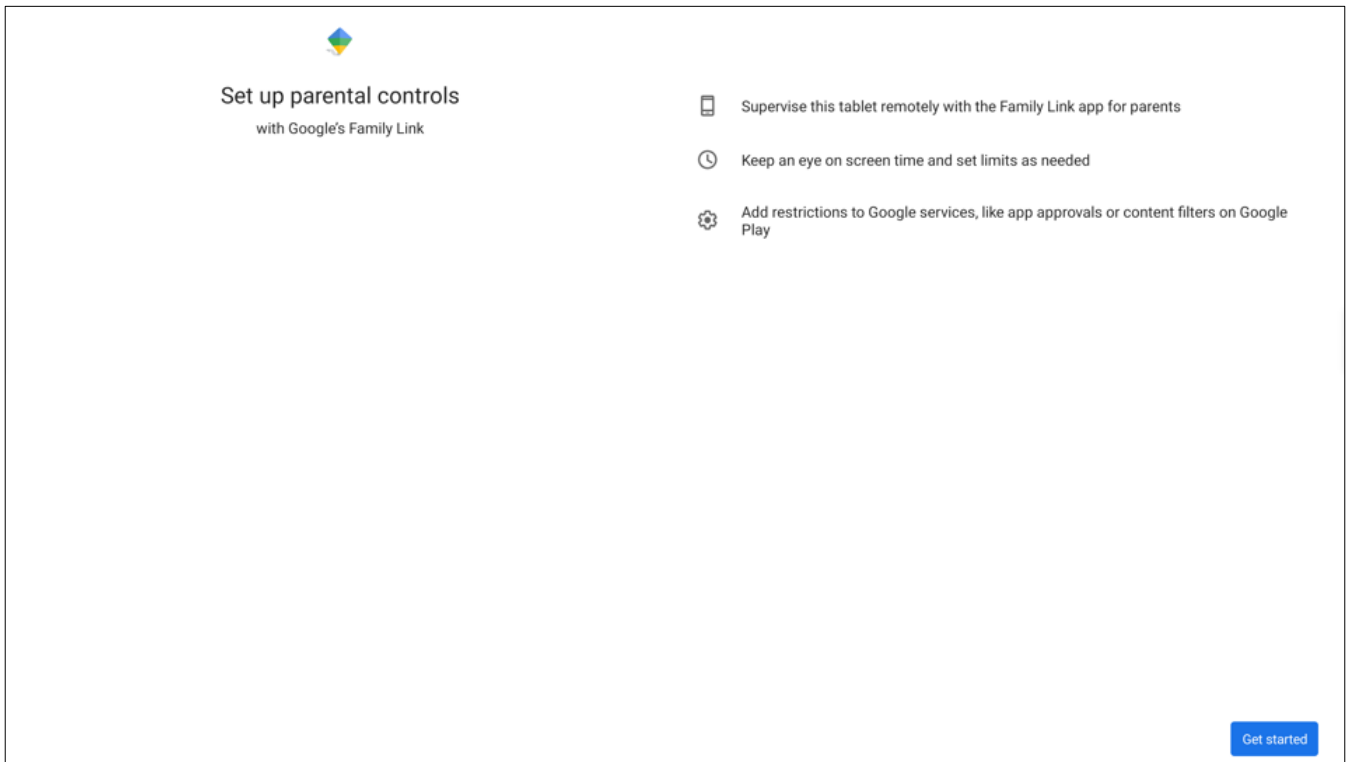
### ⑤ Do Not Disturb

#### - Enable/disable with Do Not Disturb

- a. You can receive separately designated apps, contacts, notifications, etc. even when Do Not Disturb is active.
- b. Schedule or manage the activation of Do Not Disturb by specifying a time.

### ⑥ Show icon in the app list

## 5.16 Digital wellbeing & parental controls

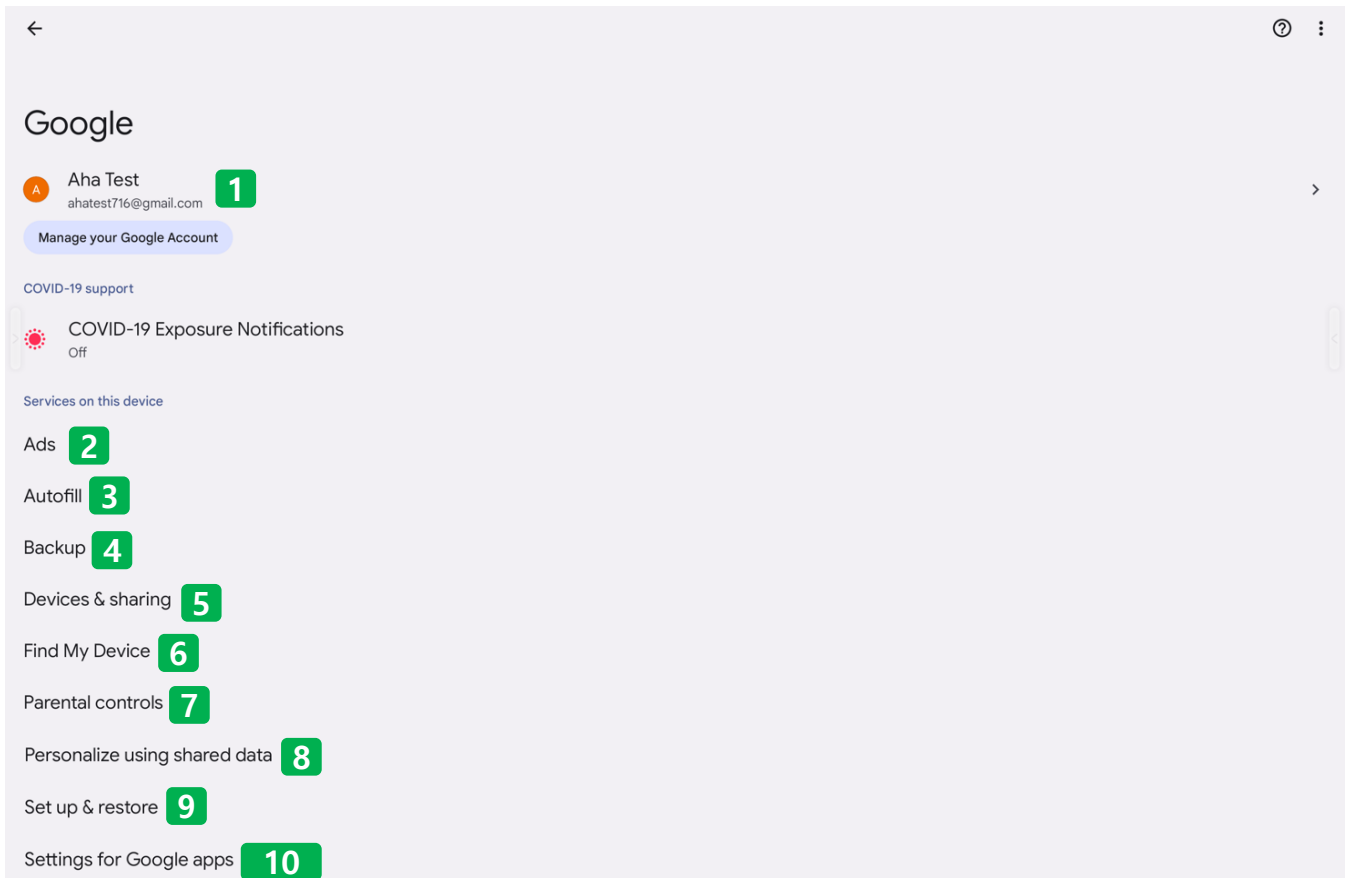


### ⑦ Parental controls

- You can manage this device remotely with a separate Family link app.
- You can manage your kids' device usage by restricting app and service approvals, and more.

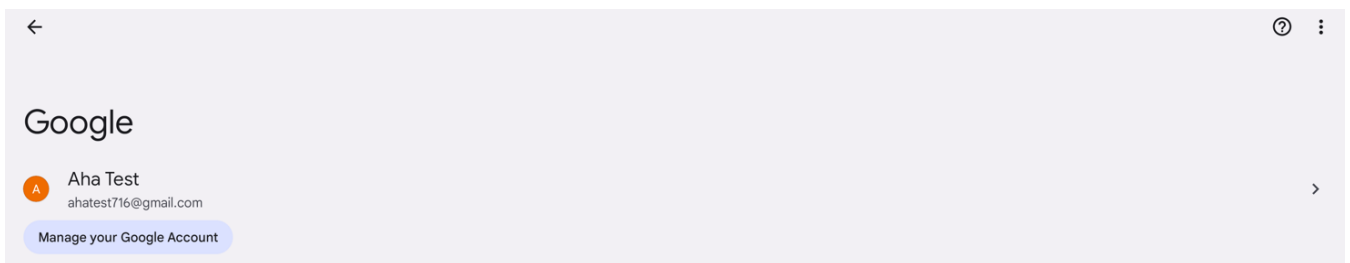
## 5. System setting

### 5.17 Google



#### ❖ Google

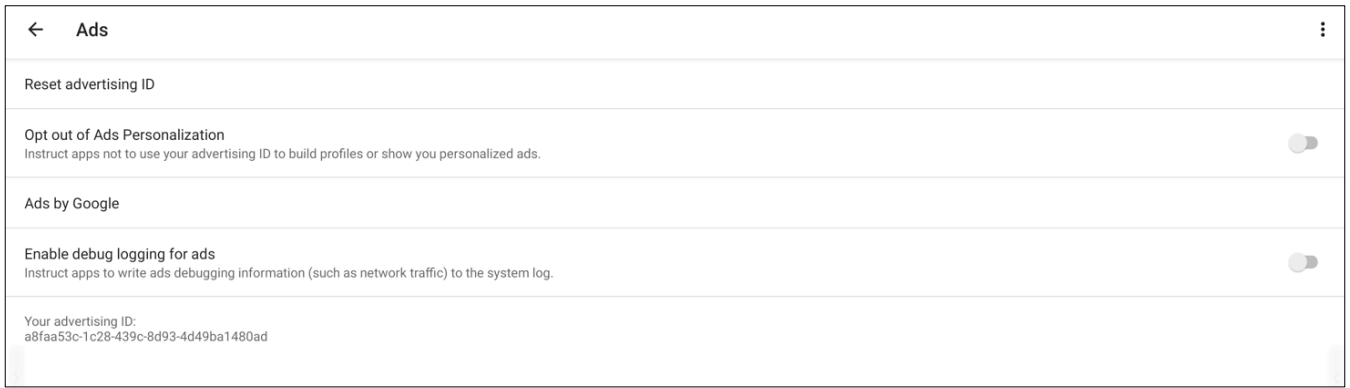
- You can manage your Google account, apps, backups, and many other related features.



#### ① Google account

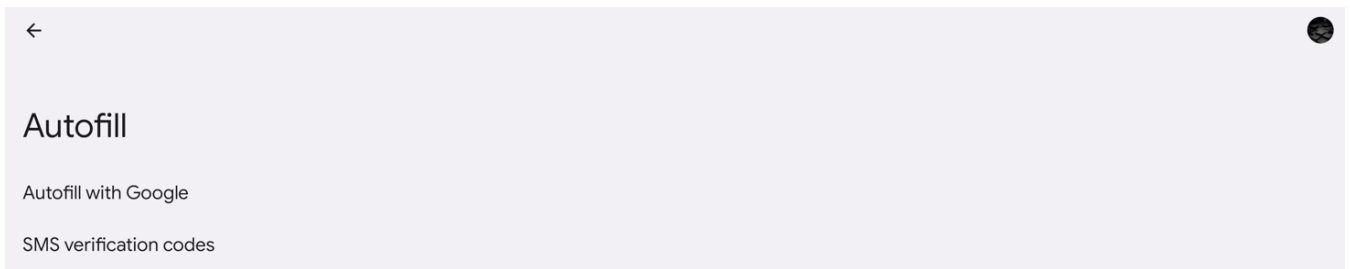
- You can manage your google account logged into currently

## 5.17 Google



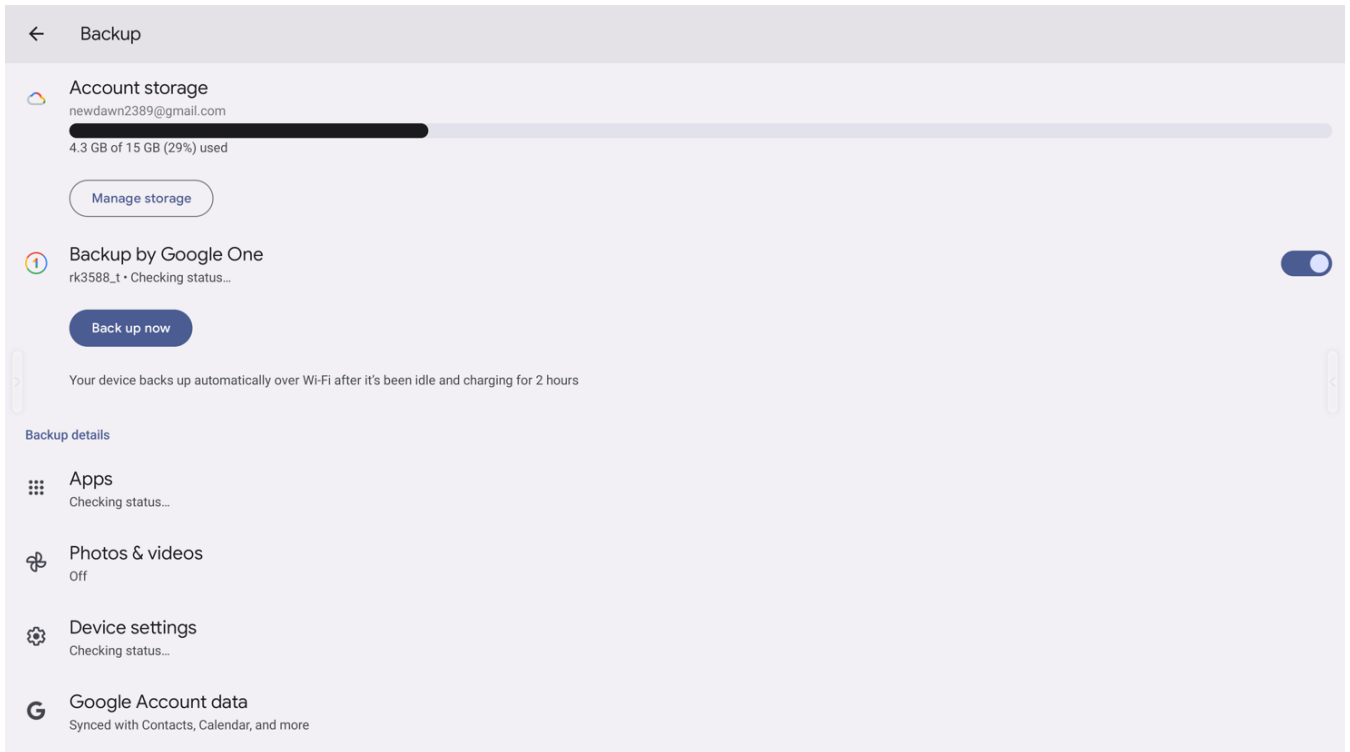
### ② Ads

- Manage Ads settings by Google



### ③ Autofill

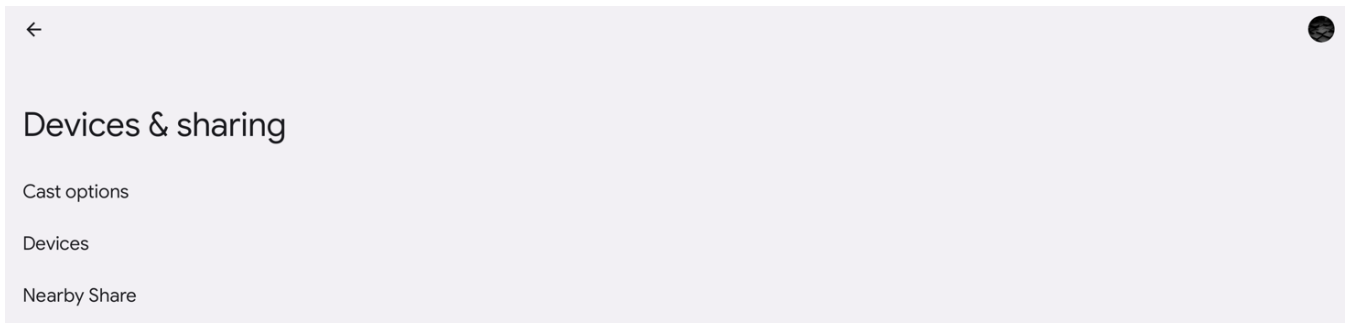
- Manage the Google autocomplete feature.



### ④ Backup

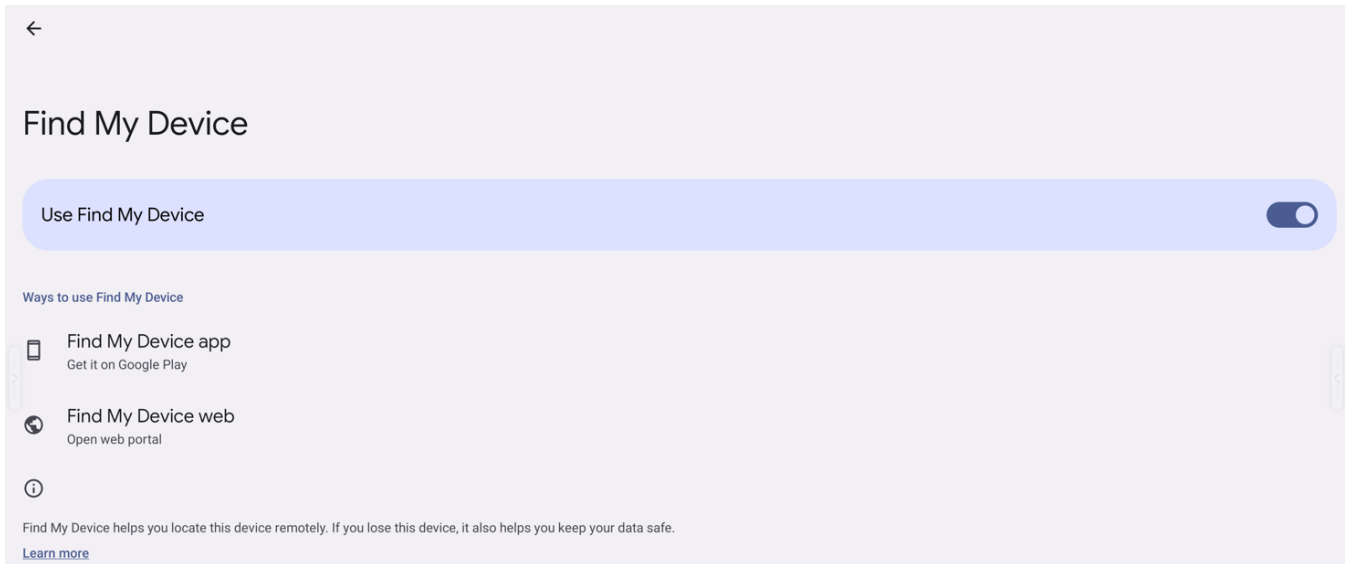
- Manage data backup, recovery, and more with your Google account.

## 5.17 Google



### ⑤ Devices & sharing

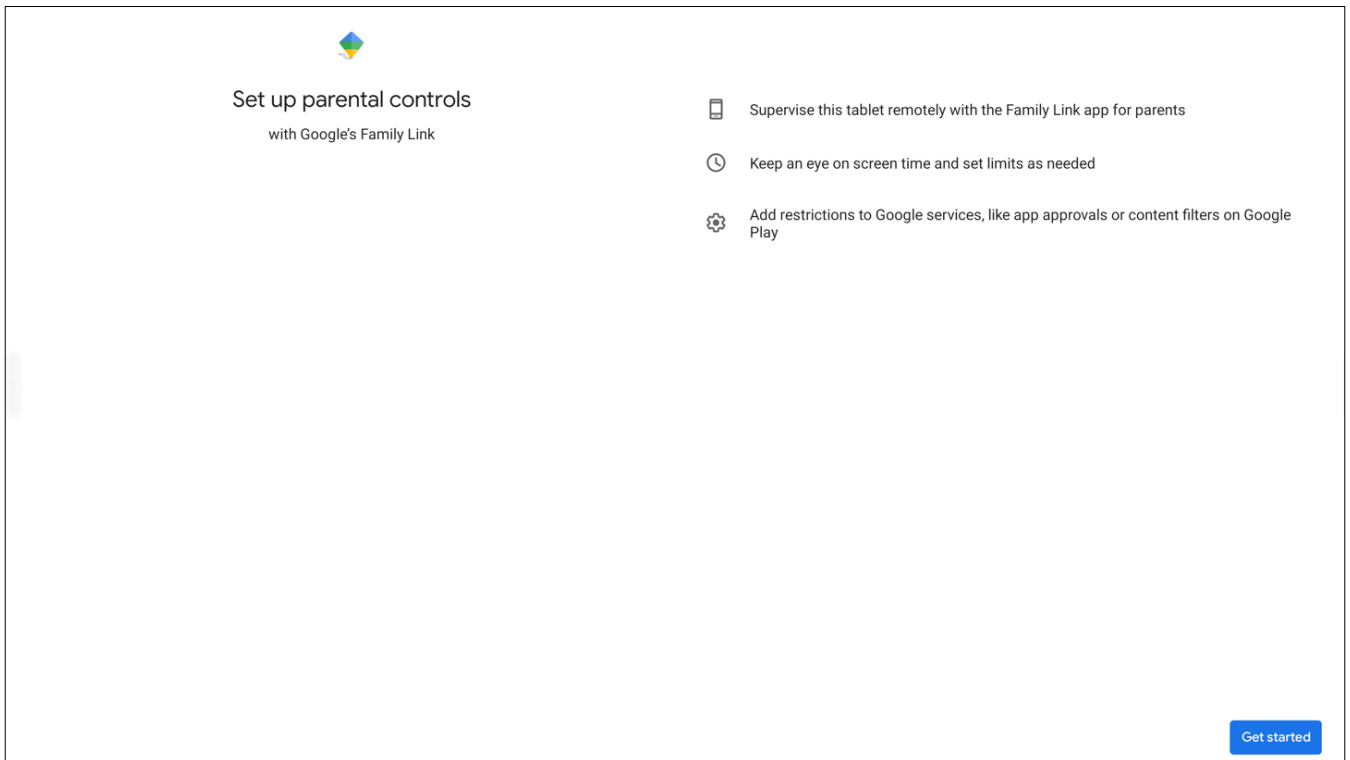
- You can share data, documents, photos, and more with nearby devices by using Bluetooth or Wi-Fi



### ⑥ Find My Device

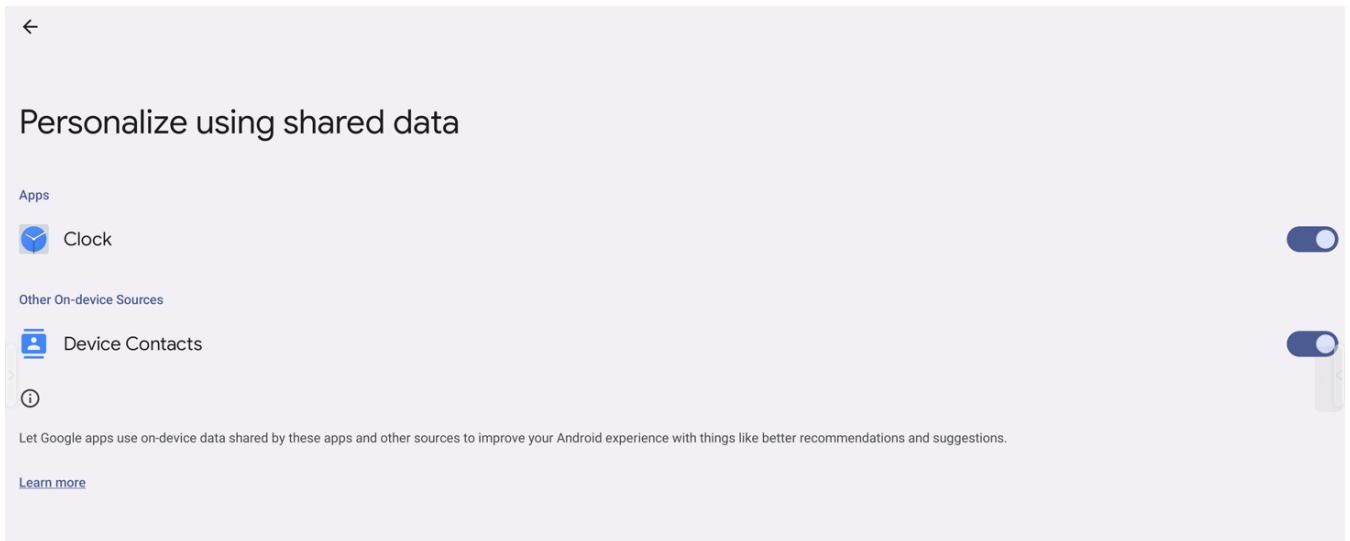
- You can find your devices connected to your Google account in the app or on the website

## 5.17 Google



### ⑦ Parental controls

- You can manage this device remotely with a separate Family link app.
- You can manage your kids' device usage by restricting app and service approvals, and more.

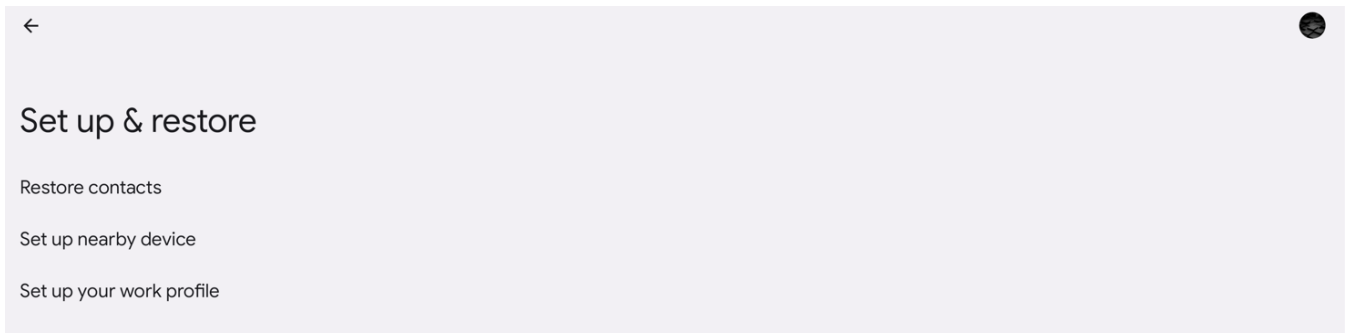


### ⑧ Personalize using shared data

- Google apps share data with other apps on your device to make your Android experience better with recommendations and suggestions.

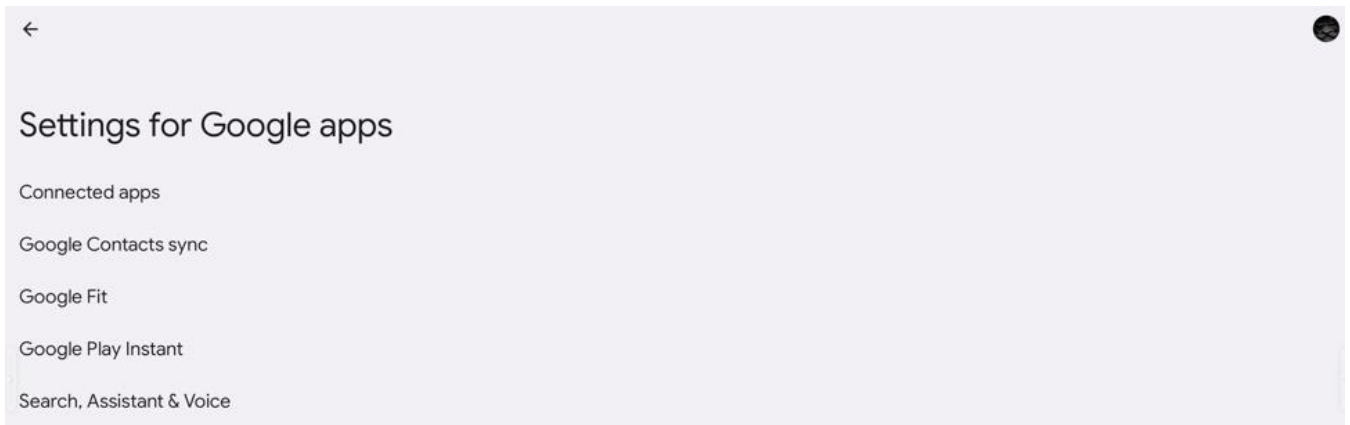


## 5.17 Google



### ⑨ Set up & restore

- Manage the setup and restoration of Google data on your device.



### ⑩ Settings for Google apps

- Manage settings related to the integration of Google apps.

# 5. system settings

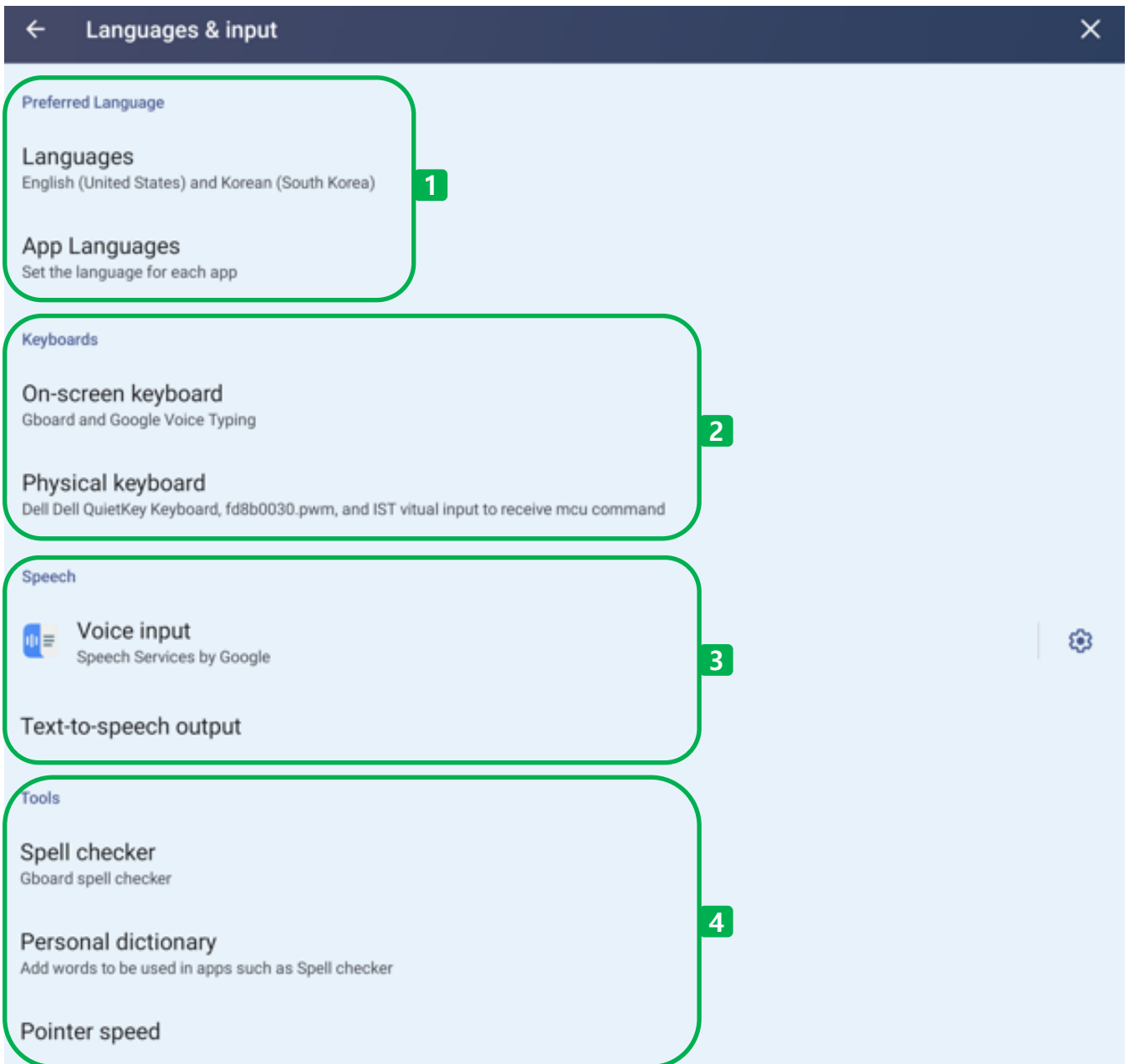
## 5.18 System



### ❖ System

- Manage settings for data, language, time, backups, and more on your device.

## 5.18 System



### 5.18.1 Language & input

#### ① Preferred language

- Languages: Allows users to freely change the UI language on the device.
- App languages: Users can freely change the app language on their device.

#### ② Keyboards

- On-screen keyboard: Manage settings such as language, layout, and more for the touch keyboard.
- Physical keyboard: Manage settings such as language, layout, and more for the physical keyboard.

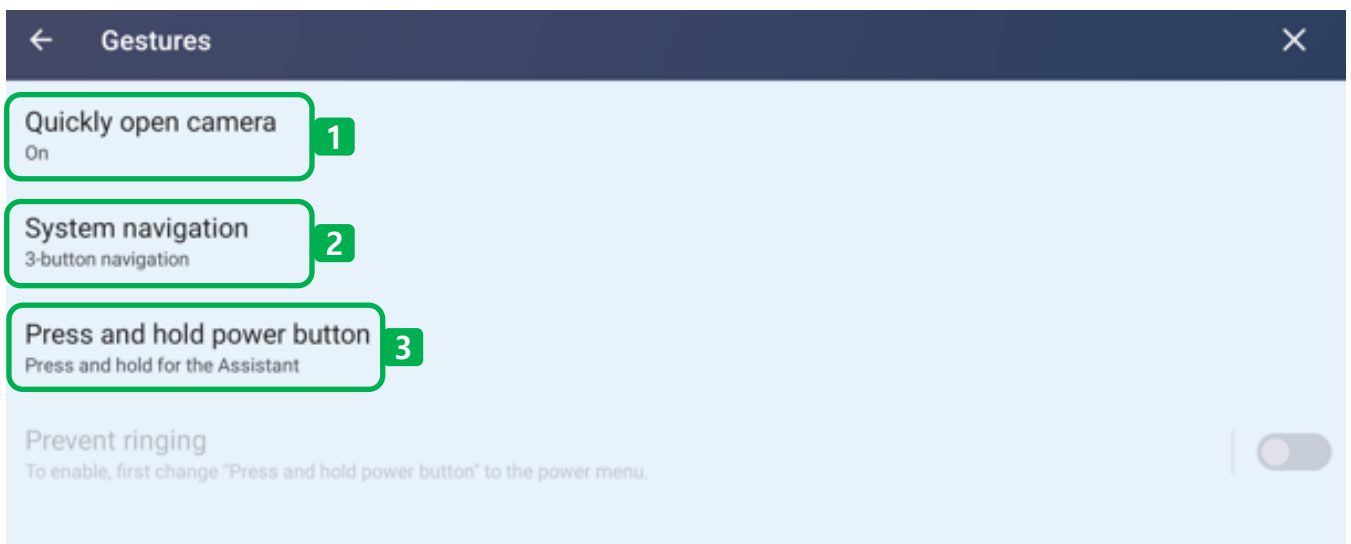
## 5.18 System

### ③ Speech

- Voice input: A voice service feature supported by Google.
- Text to speech output: Manage other settings such as the language of the speech service, speaking speed, and more.

### ④ Tools

- Spell checker: Use Gboard's spell checker.
- Personal dictionary: You can add terms to your personal dictionary by pressing the +Add button.
- Pointer speed: Changes the speed of the pointer function.



### 5.18.2 Gestures

#### ① Quickly open camera

- You can open the camera immediately by quickly pressing the power button twice.

#### ② System navigation

- You can choose to use gestures or 3-button navigation for functions like going home and going back.

#### ③ Press and hold power button

- You can launch the Assistant by pressing and holding the power button.

## 5.18 System



### 5.18.3 Date & time

#### ① Date & time setting

- You can set the date and time automatically or manually.
- An internet connection is required to use automatic features.

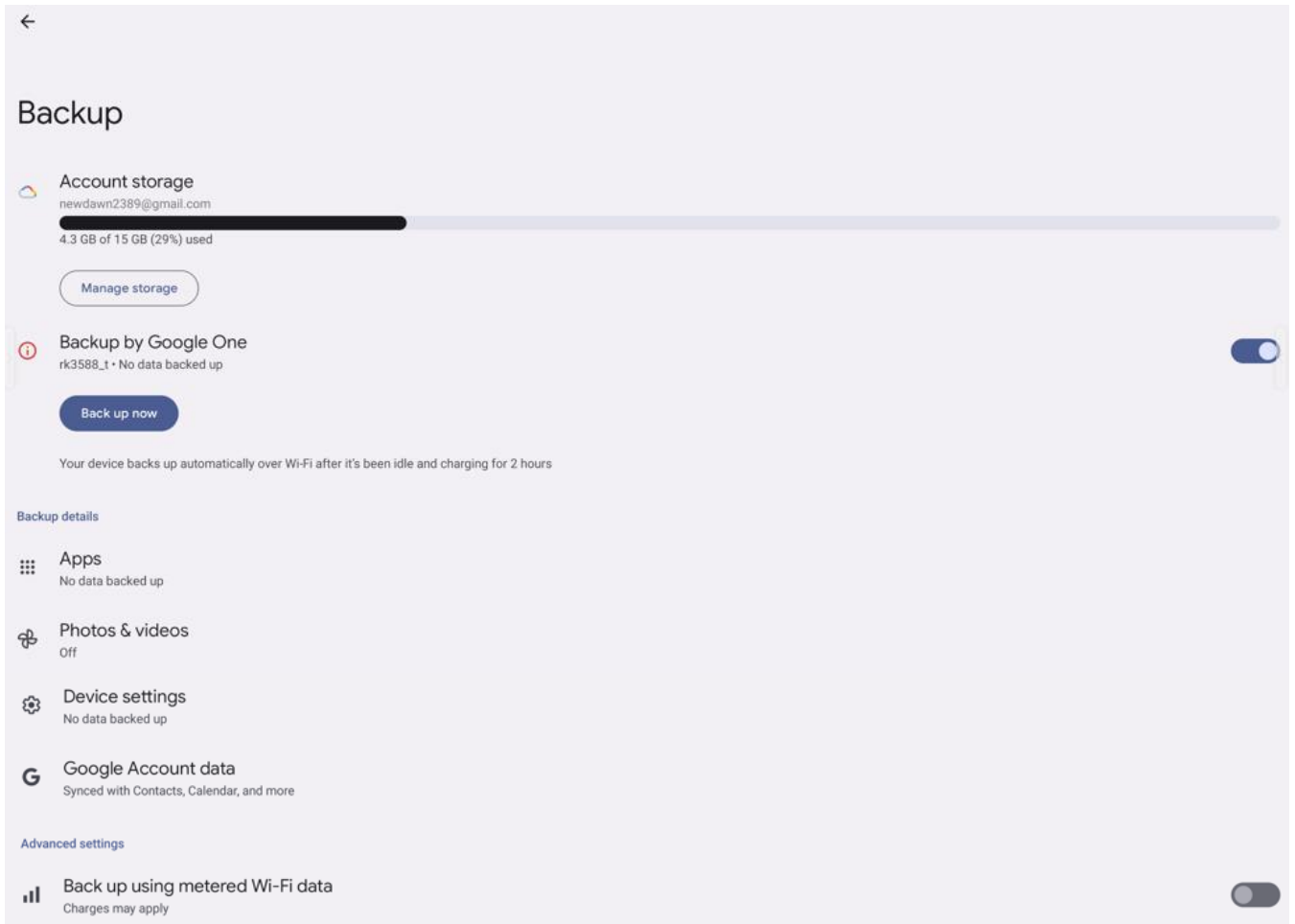
#### ② Time zone

- You can set the world time zone automatically or manually.
- An internet connection is required to use automatic features.

#### ③ Time format

- You can set the current time representation format to AM, PM, or 24 hours.

## 5.18 System



### 5.18.4 Backup

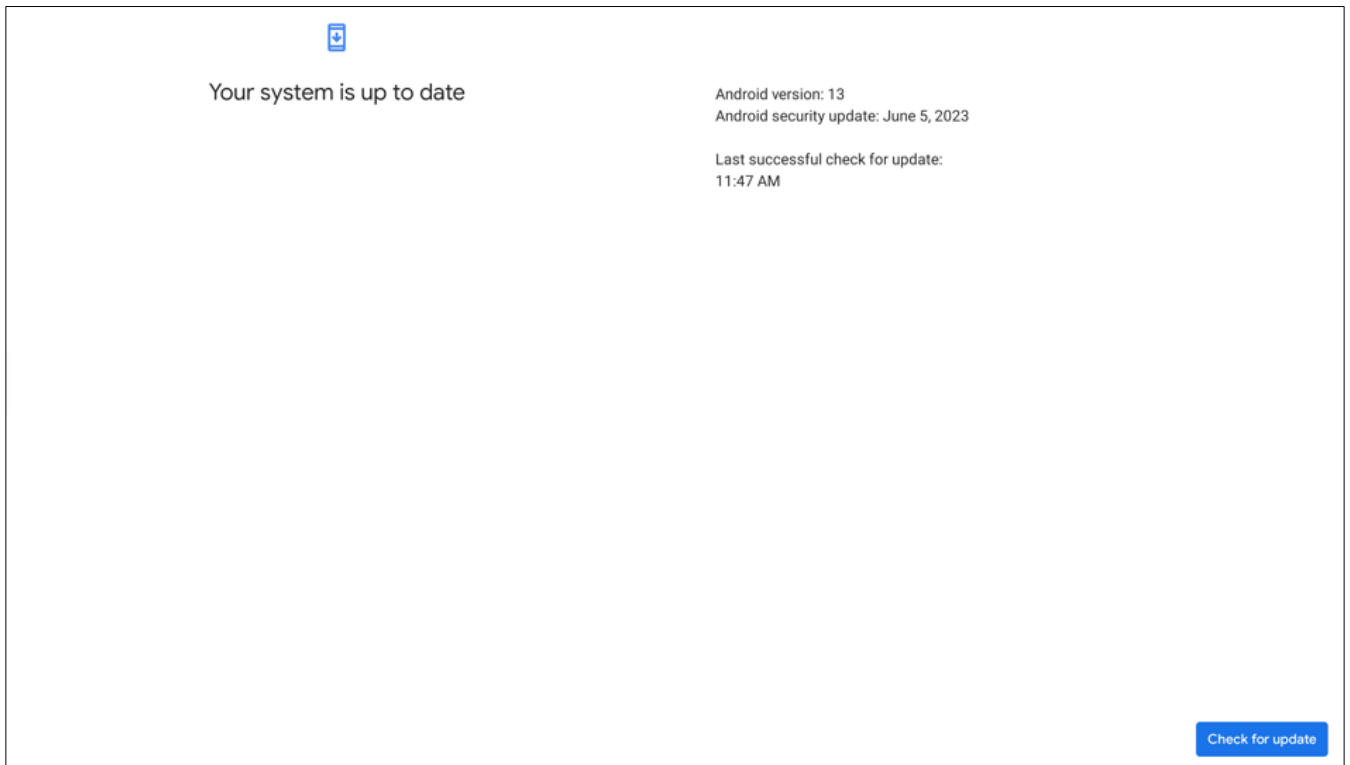
#### ① Backup start

- You can back up data within your device.

#### ② Backup detail

- It allows you to backup individual items on your phone, such as apps, pictures and more.

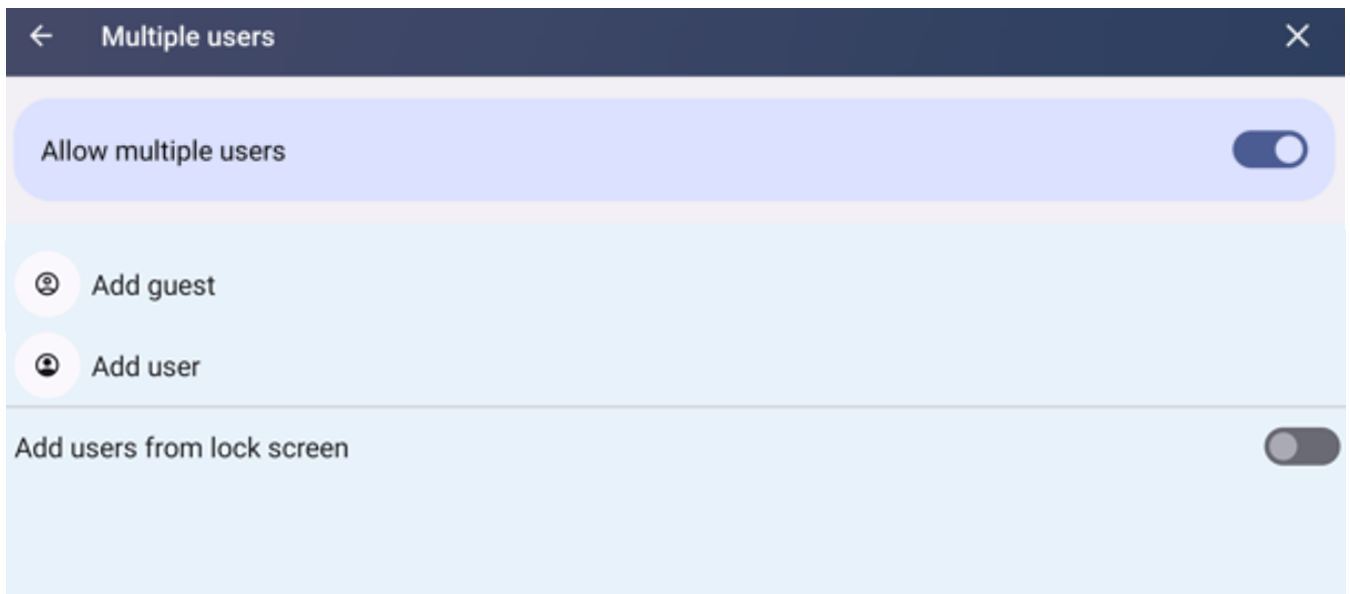
## 5.18 System



### 5.18.5 System update

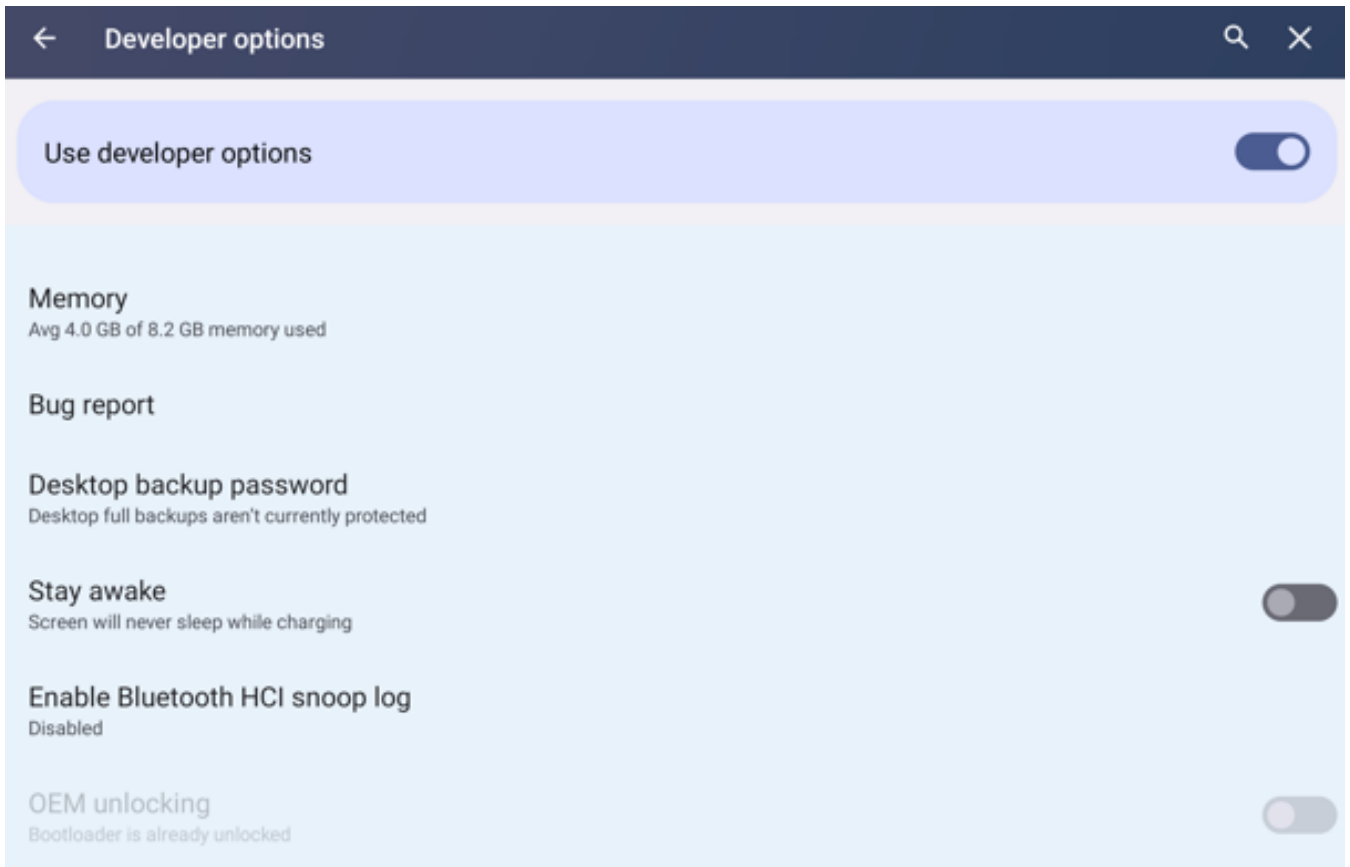
- You can find your device's Android version, update date and more. And you can upgrade latest version.

## 5.18 System



### 5.18.6 Multiple users

- You can see the users on the device, and you can also allow multiple users, you can start adding and managing users.

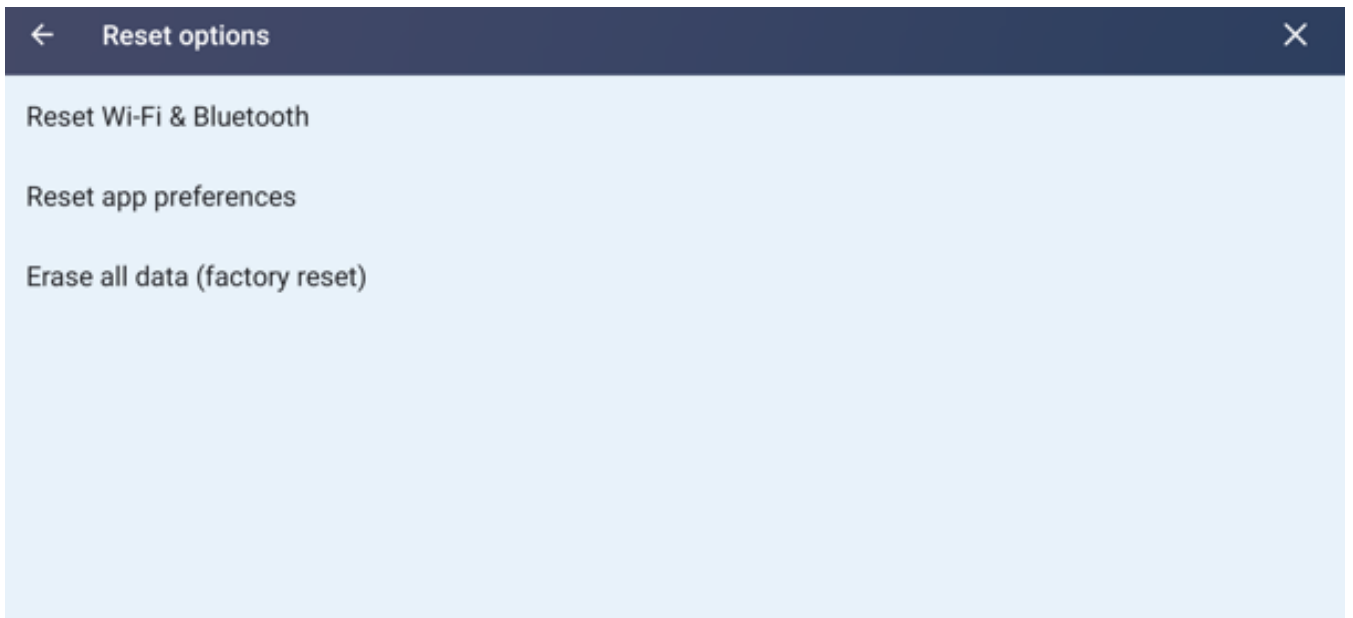


### 5.18.7 Developer options

- You can use a number of developer options within your device.



## 5.18 System



### 5.18.8 Reset options

- Reset your device's preferences, erase all data, and more to factory reset

## 5. system settings

### 5.19 About device

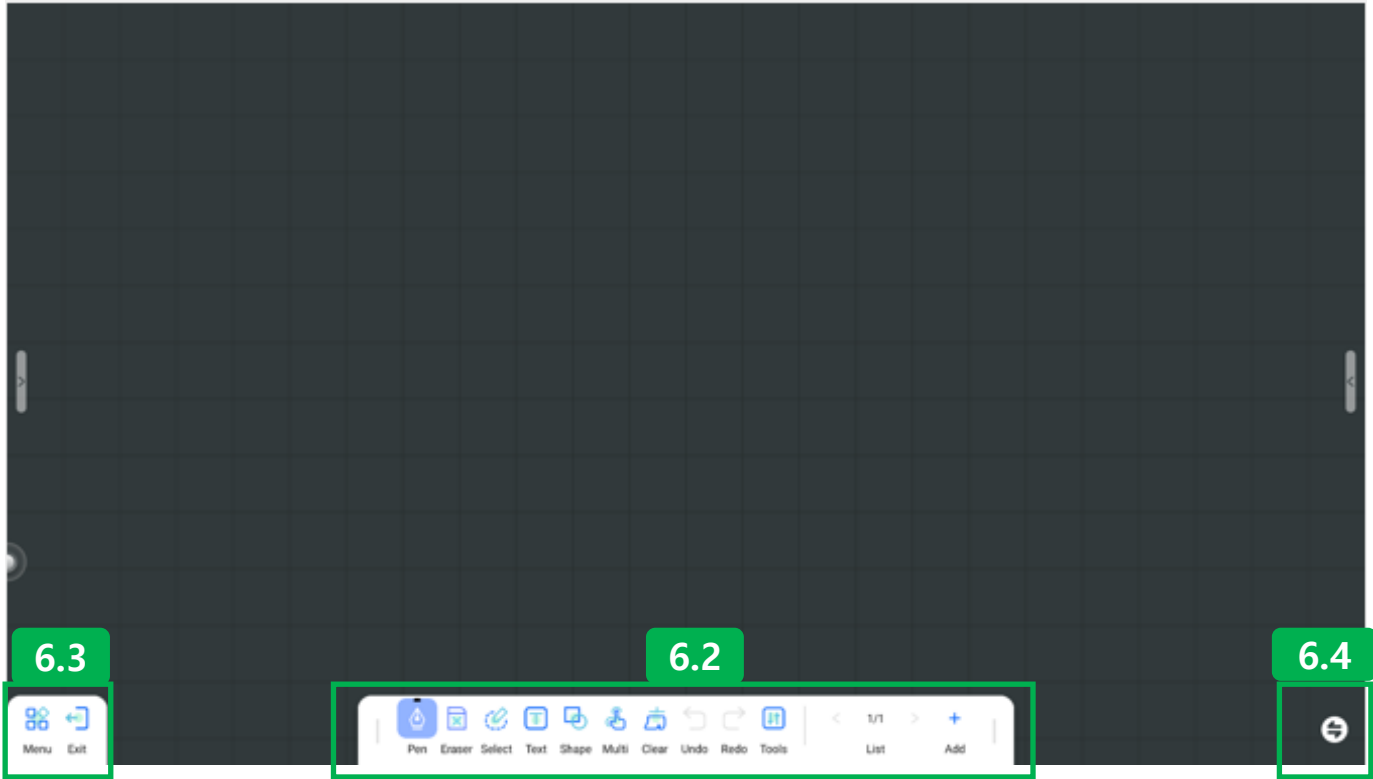


#### ❖ About device

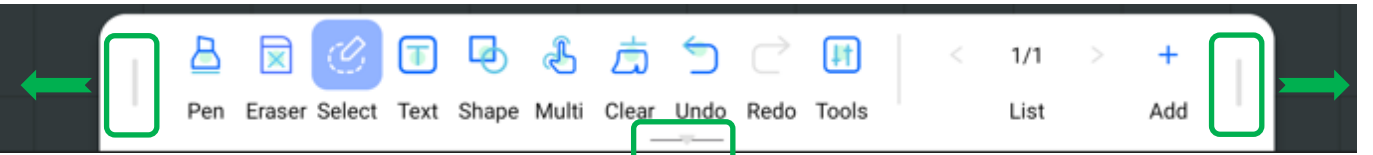
- You can see the device name, Android version, and IP addresses.
- You can see the firmware version and proceed with the upgrade.

# 6. Whiteboard

## 6.1 Main Screen

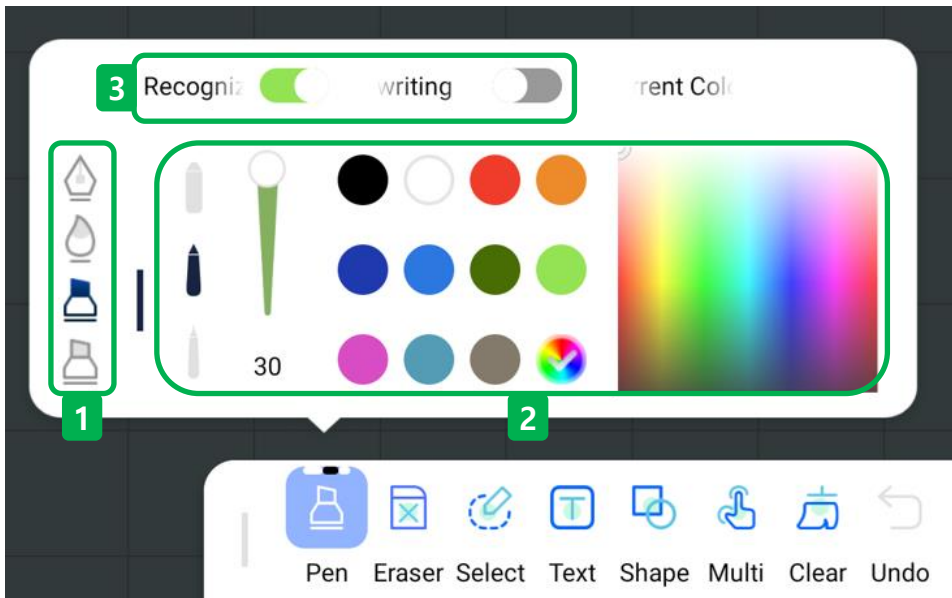


## 6.2 Writing toolbar



### 6.2.1 Moving the toolbar

- You can drag and drop toolbar button onto the left or right side.
- You can hide the toolbar by pressing the bottom button.



### 6.2.2 Pen

- You can freely change the type, thickness, and color of the pen.

### ① Pen type

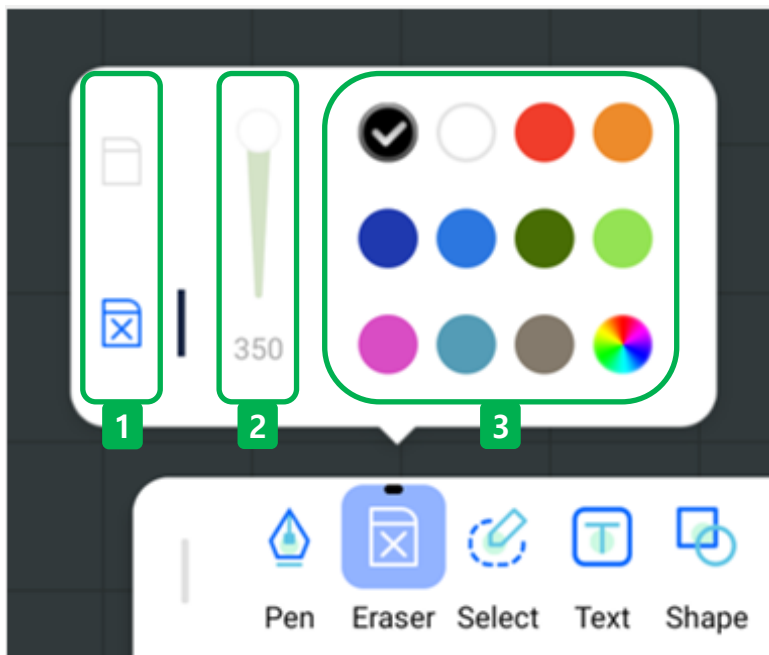
- There are four types of pens: fountain pen, brush pen, marker pen, and highlighter.

### ② Setting for Pen's thickness recognition

- You can use three pens concurrently, each with its own touch sensitive boldness.
- S(Small Finger) : 2.8mm, B(Big finger) : 6.5mm, F(Stylish big finger) : 10mm
- You can adjust the boldness which can be adjusted from 1 to 30.
- You can freely assign colors to each pen's on the Color board.

### ③ Recognition function

- Automatically recognize the shape of handwriting with a pen and turn it into a shape or text.  
(Select and use either Shape recognition or Text recognition).



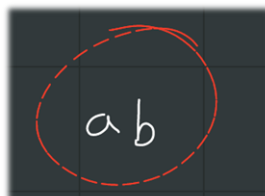
## 6.2.3 Eraser

- You can freely change the type of eraser, size, color selection and more..

### ① Types of eraser



<Default>



<Select>



<Gesture>


- There are three types of erasers: default, selection, and gesture.
- Default: This is a resizable eraser that can be customized from 100 to 350.

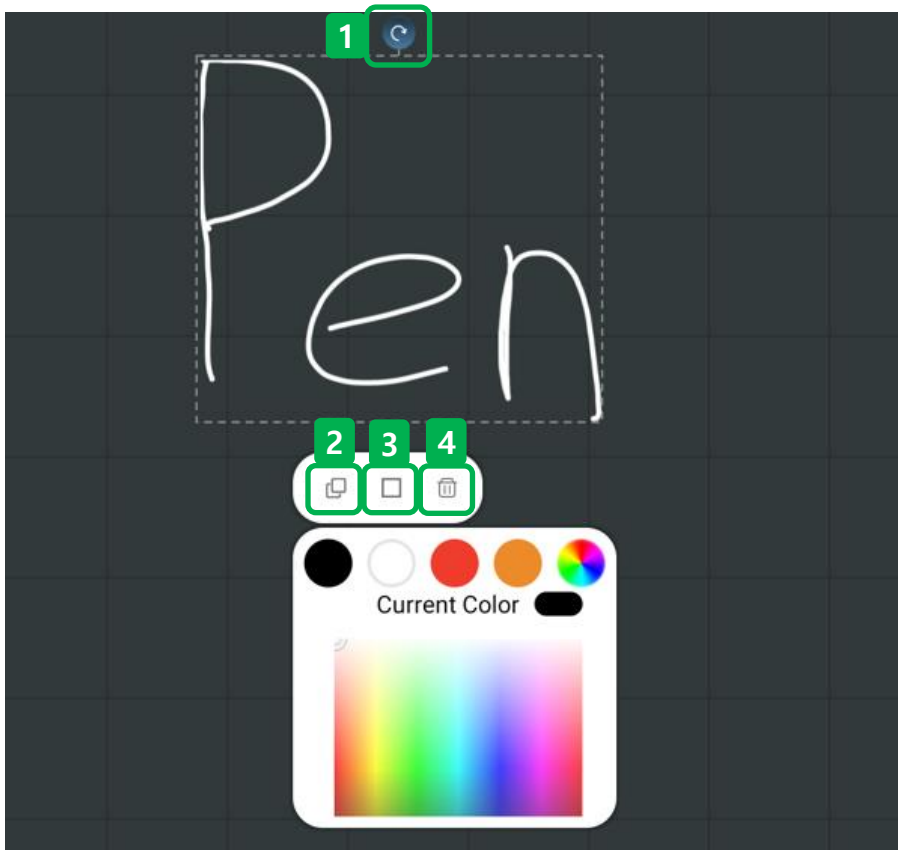
- Select: You can erase by selecting the objects you want to erase, and you can erase give them a color of your choice.
- Gesture: Recognizes the palm of your hand or a large object and acts as an eraser, even while selecting other functions of the tool is available.

### ② Resize the eraser

- The eraser is resizable, and can be adjusted from 100 to 350.  
(This feature only works with the default eraser).

### ③ Erase of selected color

- Specify the color of the writing the user wants to erase so that the eraser only works with the specified color.
-  This color makes the eraser function work on all colors.  
(This feature only works in the Selection Erase).



## 6.2.4 Select

- Select an object to modify it by copying, deleting, rotating, and more.

### ① Rotate objects

- Rotates the selected object.

### ② Copy objects

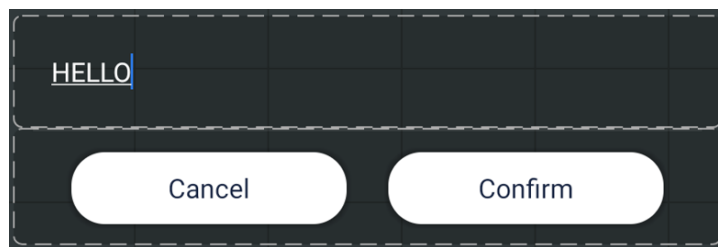
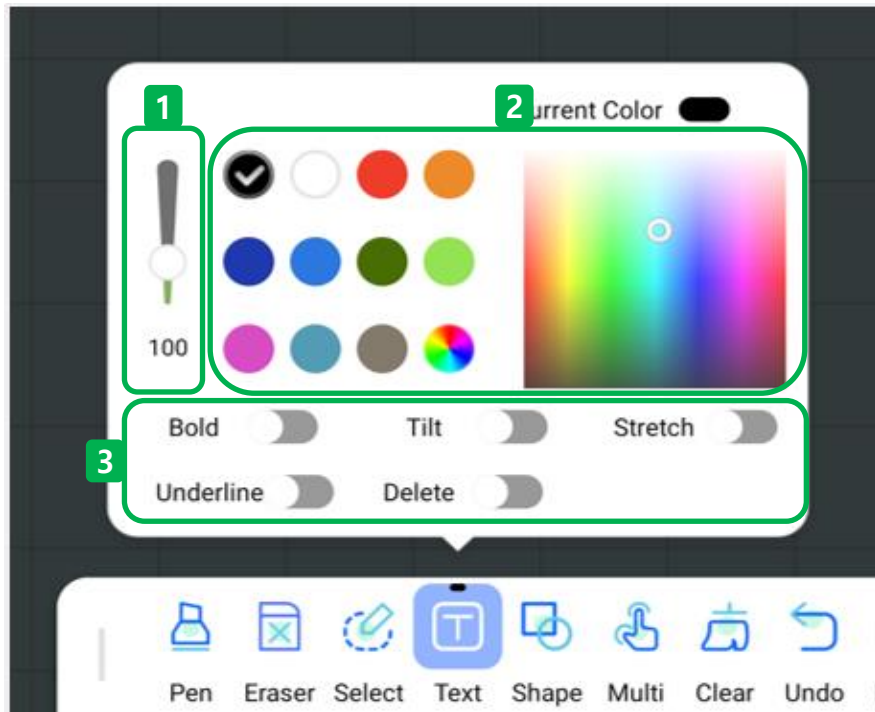
- Copies the selected objects.

### ③ Object color

- Modify the color of selected objects.

### ④ Delete object

- Deletes the selected objects.



## 6.2.5 Text

- You can freely change the size, font, color and more of the text.

### ① Resize text

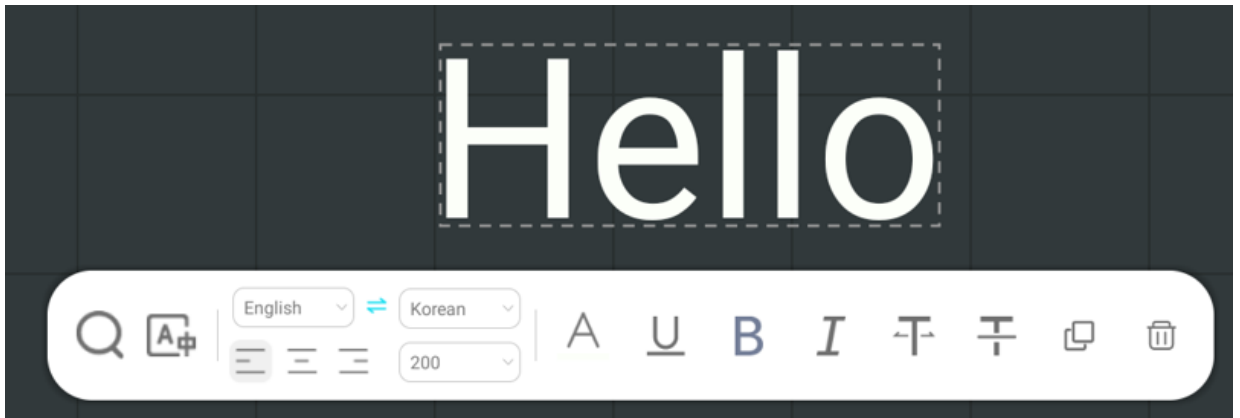
- Text is resizable, and can be scaled from 60 to 200.

### ② Adjust the color of the text

- You can use any text color you want on the Color board.

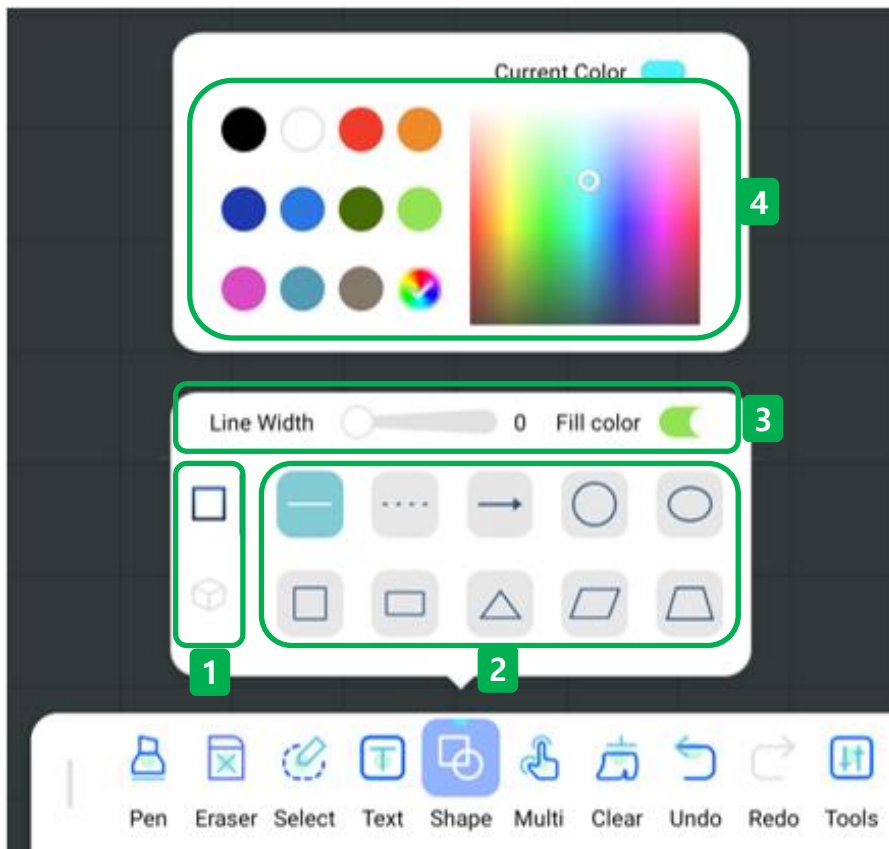
### ③ Adjust the text font

- You can adjust and use the font of the Text..



#### ④ Make other edits to the text

- Once the text is loaded, you can select it to modify it with alignment, size, underline, and other features.



## 6.2.6 Shape

- You can freely change the type, color, size and more of the Shape.

### ① Shape type

- There are two types of Shapes: 2D and 3D shapes.

### ② Specify a shape

- Users are free to use any shape they want on the Shape board.

(You just select either 2D or 3D before using this Shape).

### ③ Adjust the thickness of the shape

- Line width : Allows you to adjust the thickness of the Shape, which can be adjusted from 0 to 25.

- Fill color: Available by specifying whether to fill the inside of the Shape or not.

(This feature only works in 2D Shapes).

### ④ Adjust Shape color

- You are free to use any Shape color you want on the Color board.





Multi



Single

### 6.2.7 Multi & single touch

- You can adjust the number of touchable points when using the white board.

#### ① Multi touch

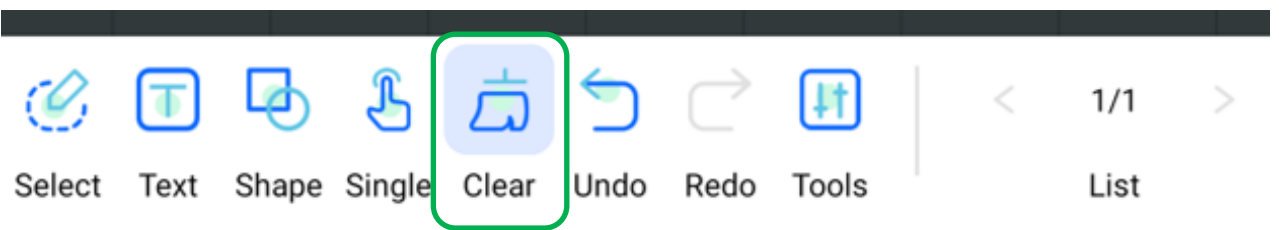
- Adjust the number of touchable points to allow for a range of 1 to 40.

#### ② Single touch

- Adjust the number of touchable points to allow only one.

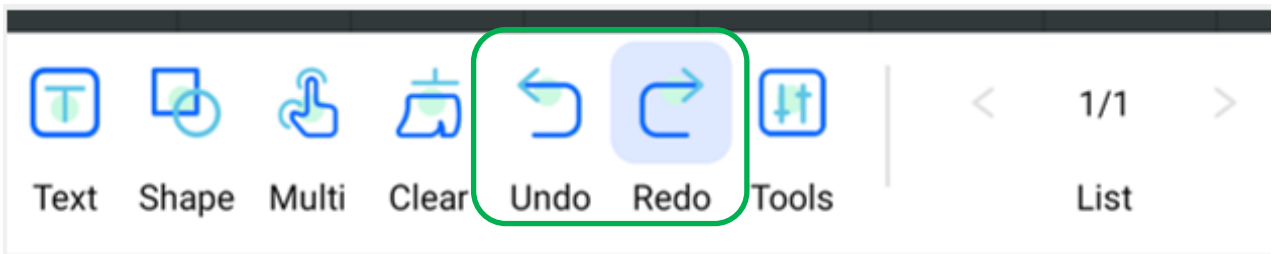
- 2point : Adjust the scale of the White board.

- 3points or more: Move everything on the White board.



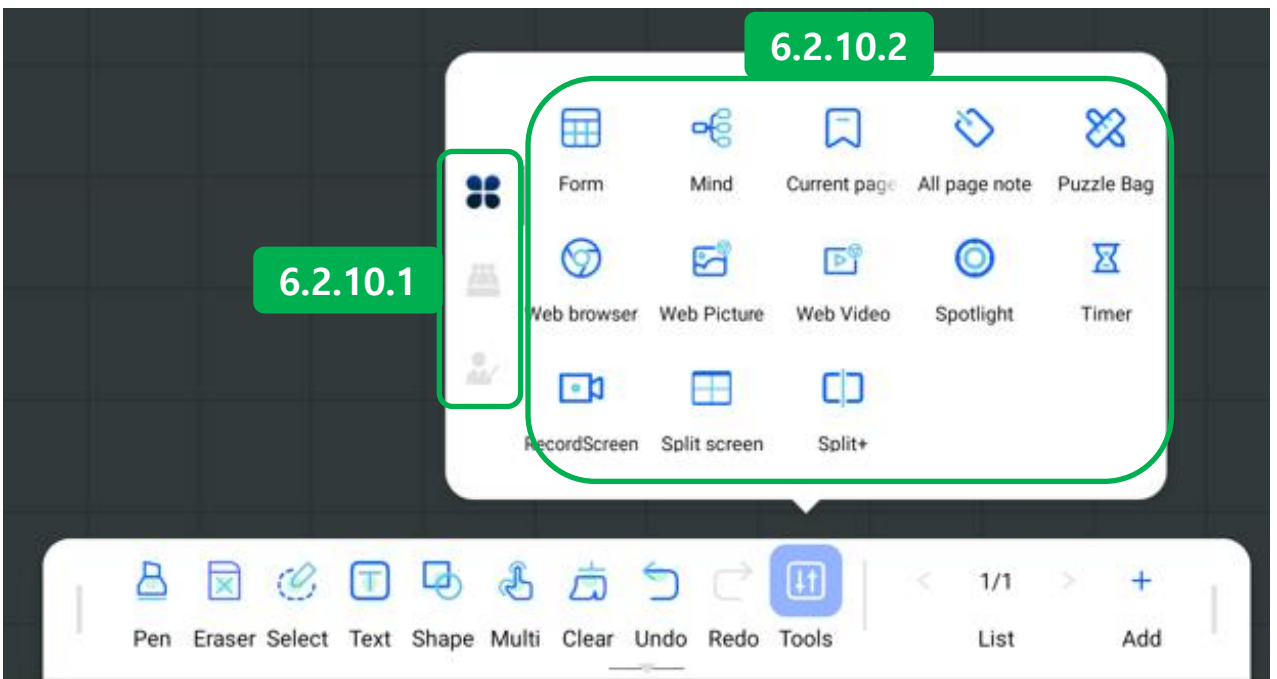
### 6.2.8 Clear

- Erases all the writing and everything on the White board at once.



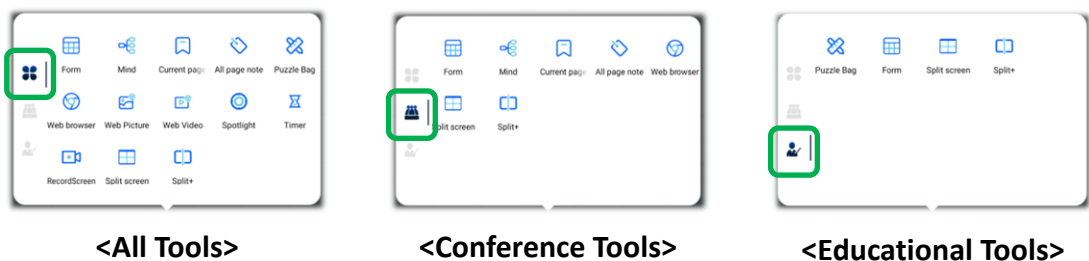
### 6.2.9 Undo & Redo

- Undo: Undoes the most recent touch.
- Redo: Recovers the most recent touch.



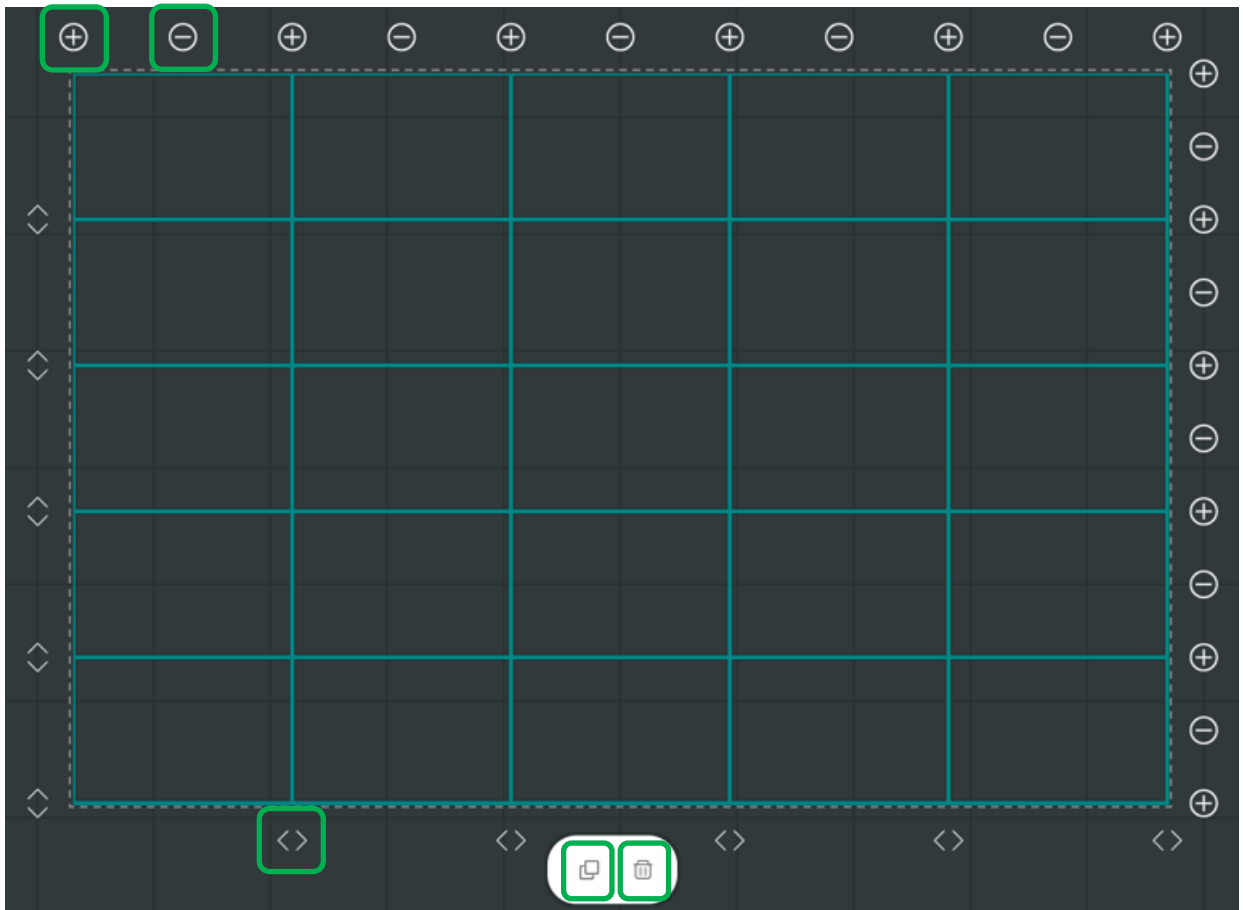
### 6.2.10 Tools

- You're free to pick and choose the tools you need for meetings and training."








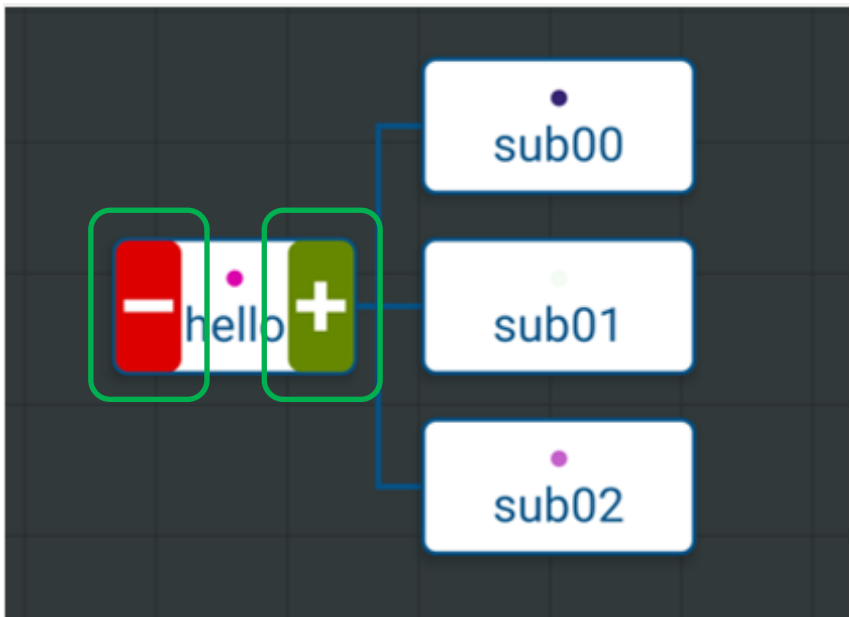
#### 6.2.10.1 Tool Types

- All Tools: The full suite of tools for meetings and educational are available.
- Conference Tools: Conference tools are available.
- Educational Tools: Educational tools are available.



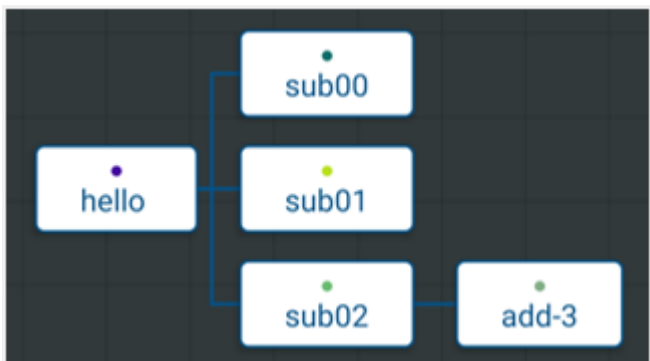
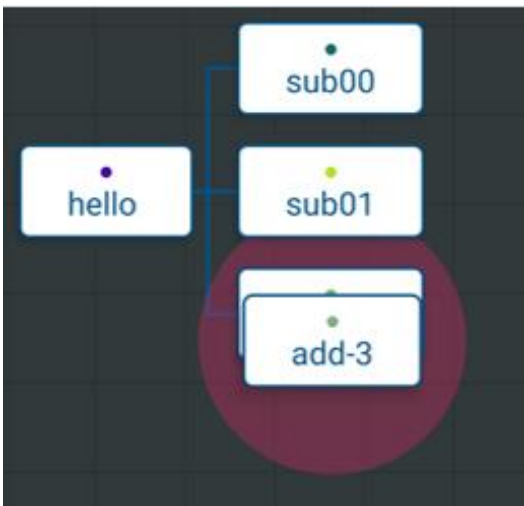
- You can modify the table.

	<b>Copy</b>	* Copy the generated table.
	<b>Delete</b>	* Delete the generated table.
	<b>Delete a cell</b>	* Reduce the number of columns in the generated table.
	<b>Add a column</b>	* Increase the number of columns in the generated table.
	<b>Resize</b>	* Resize the columns in the generated table.

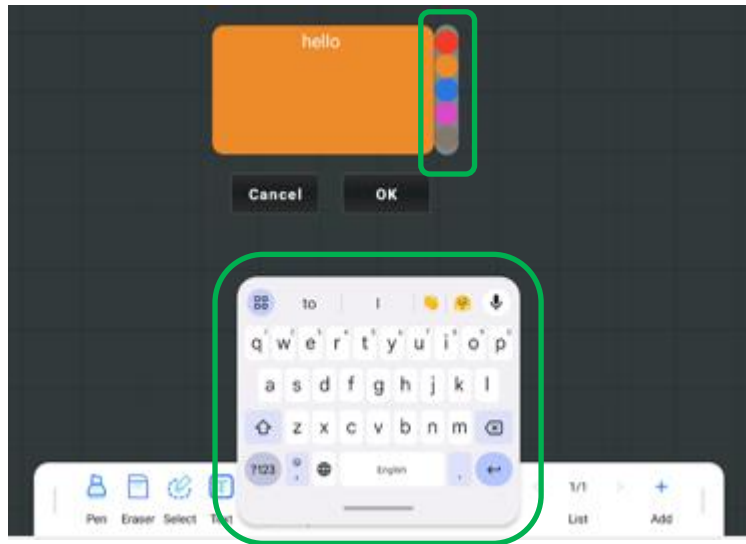


② Tools - Mind

- Create a mind map.
- The default is Main 1, Sub 3.
- You can change the contents of a map by tapping on it.
- Press +,- to increase or decrease the number of maps.
- You can change the placement of the map by pressing the center circle.

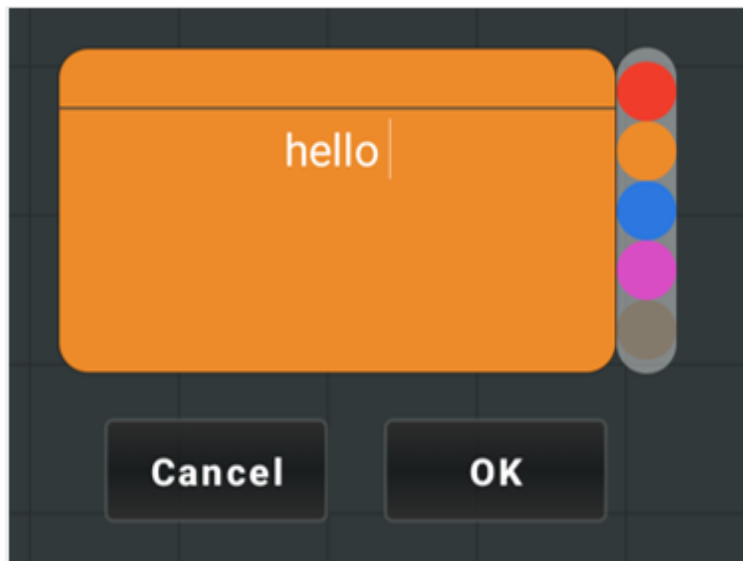


- You can change the placement of a map by dragging it to overlap it with another map.



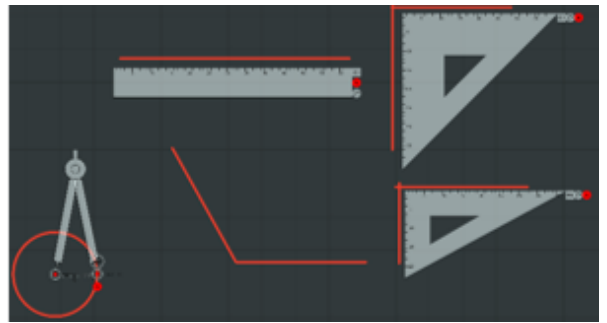
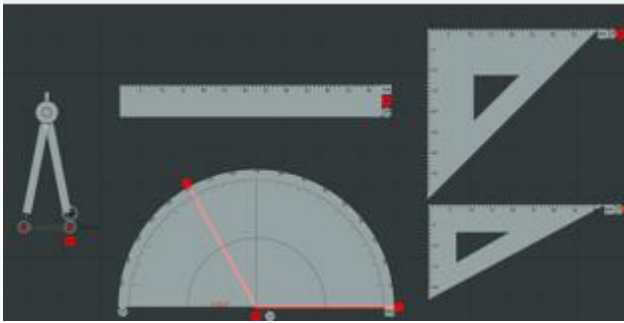
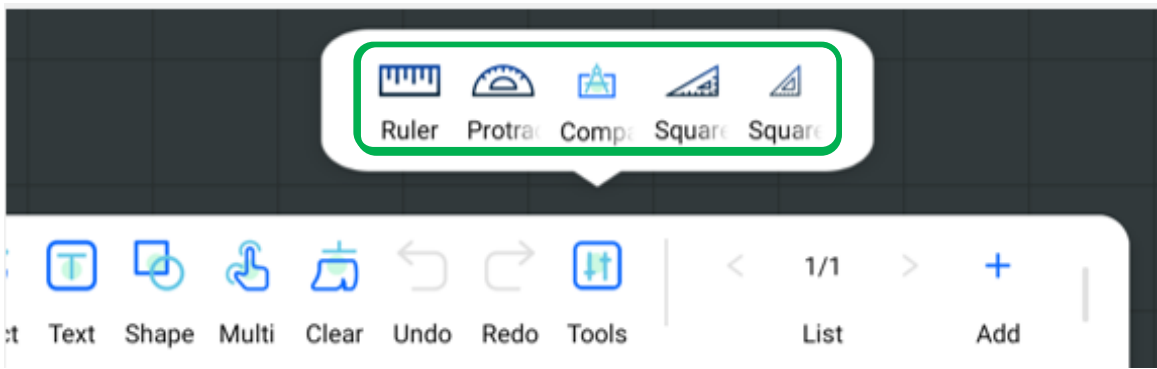
### ③ Tools - Current page note

- You can take notes for reference in the whiteboard.
- The keyboard at the bottom of the note allows you to write the contents of the note.
- You can specify the background color of a note by selecting the note's side-specified color.
- This note applies only to the current page and disappears when you switch pages.



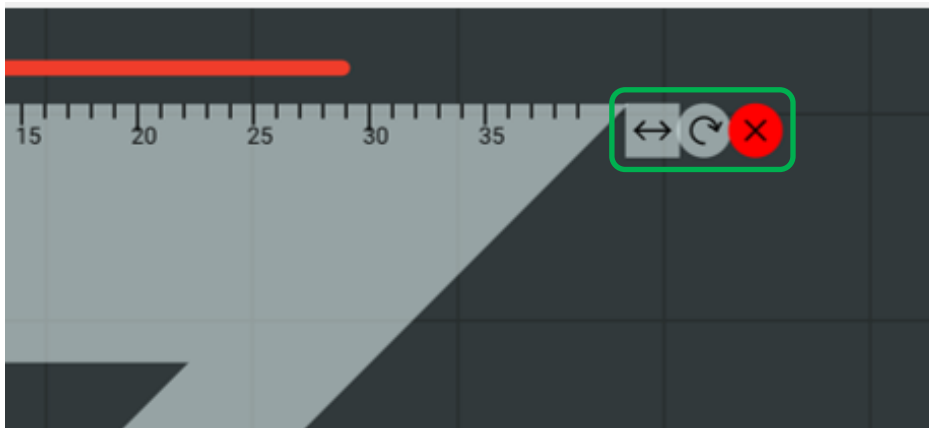
### ④ Tools - All page note




- You can take notes for reference within the whiteboard.
- The keyboard at the bottom of the note allows you to write the contents of the note.
- You can specify the background color of a note by selecting the note's side-specified color.
- This note applies to the entire page and remains in place when you switch pages.

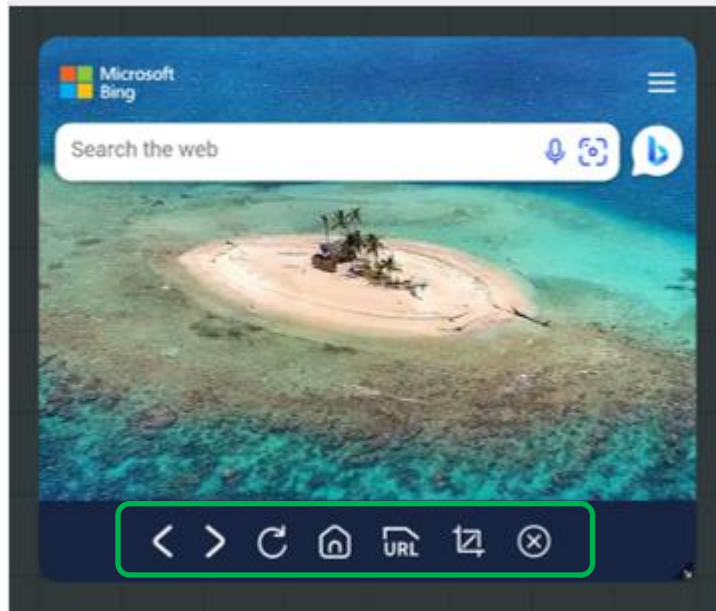


### ⑤ Tools - Puzzle bag

- You can use any math tool of your choice.










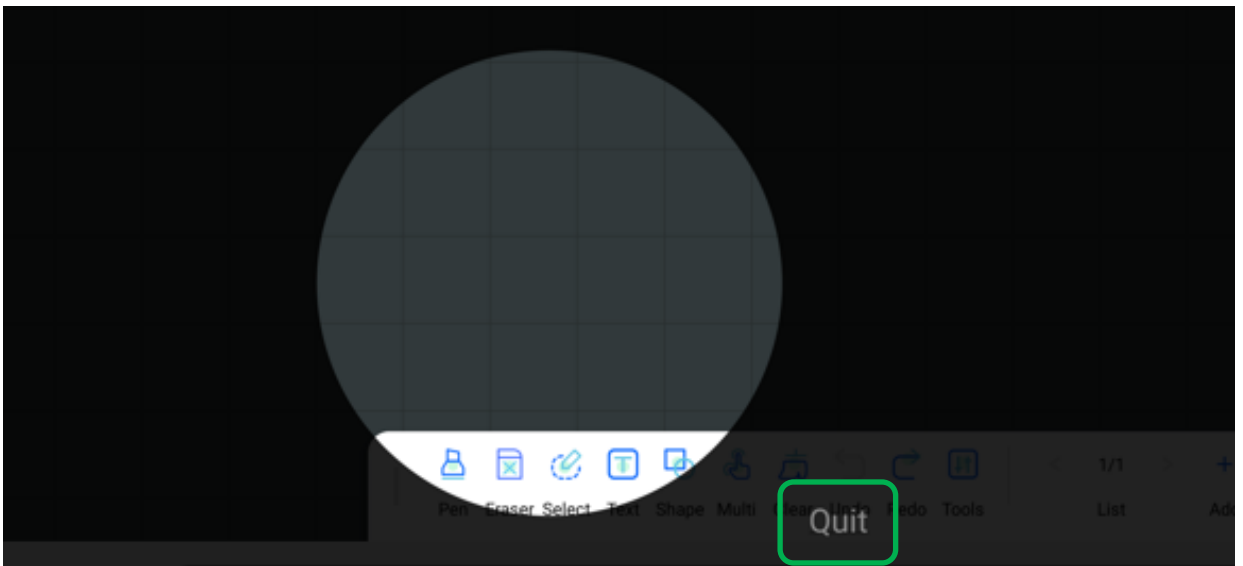
- Resize:  Tap to resize the tool.
- Rotate:  Press to rotate the tool for use.
- Delete:  You can delete the tool.



## ⑥ Tools - Web browser, picture, video

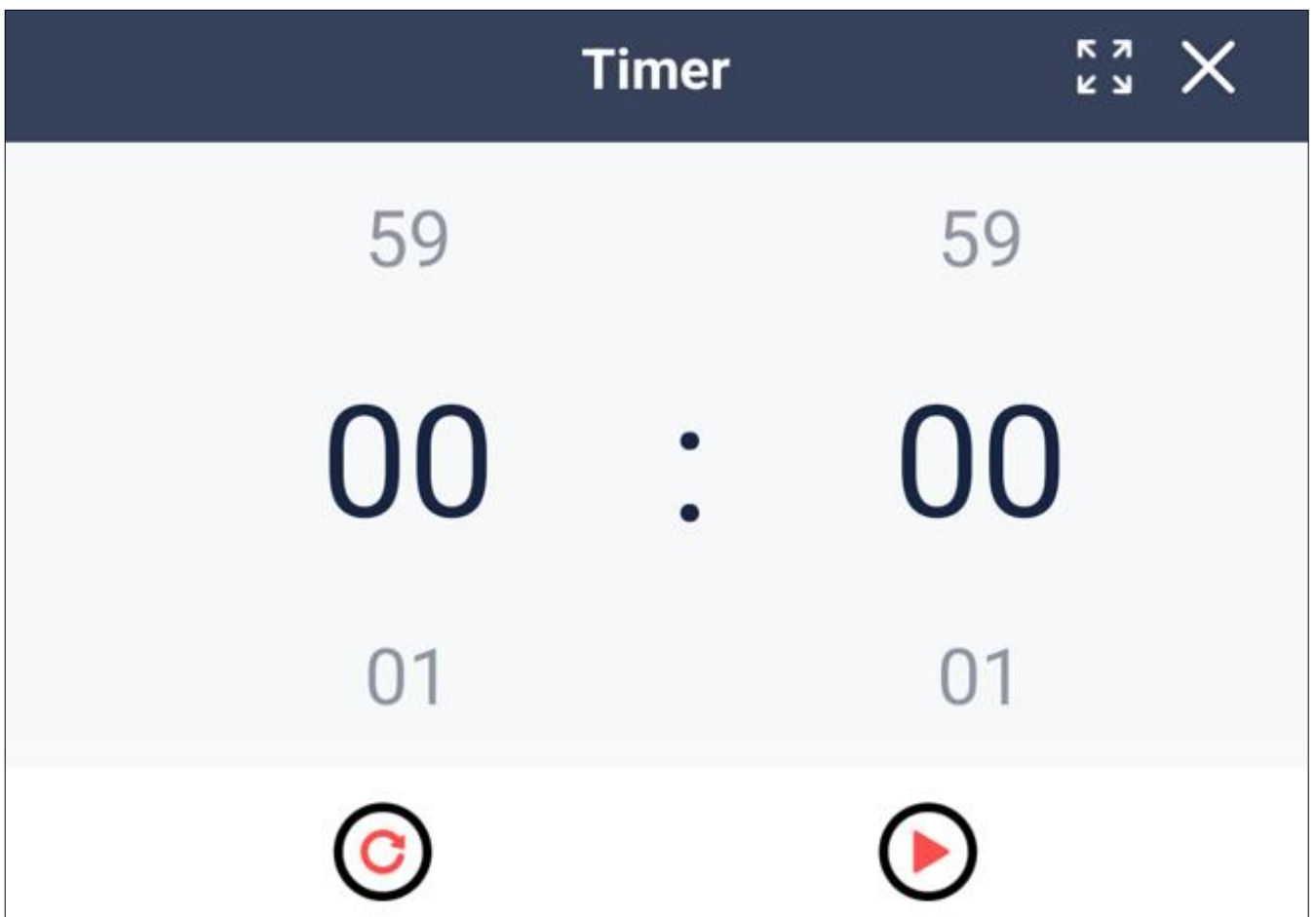
- You can use the web browser search function in the whiteboard.
- In the whiteboard, you can use Web pictures to enable photo-related searches.
- You can use Web video in the whiteboard to search for videos.

	<b>Back</b>	* Retrieves the previous page.
	<b>Go forward</b>	* Brings up the following page.
	<b>Refresh</b>	* Reloads the current page to show the latest content.
	<b>Home</b>	* Brings up the home screen.
	<b>URL search</b>	* Brings up the URL search bar.
	<b>Screen Capture</b>	* Captures the browser screen and pops it up.
	<b>Exit</b>	* Exit the web browser window.



### ⑦ Tools - Spotlight

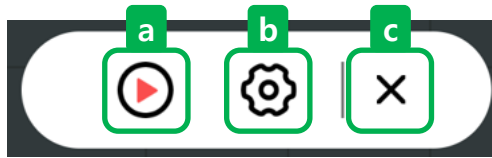
- Touch and drag the screen to specify the Spotlight area.
- Press Quit to exit the function.



### ⑧ Tools - Timer

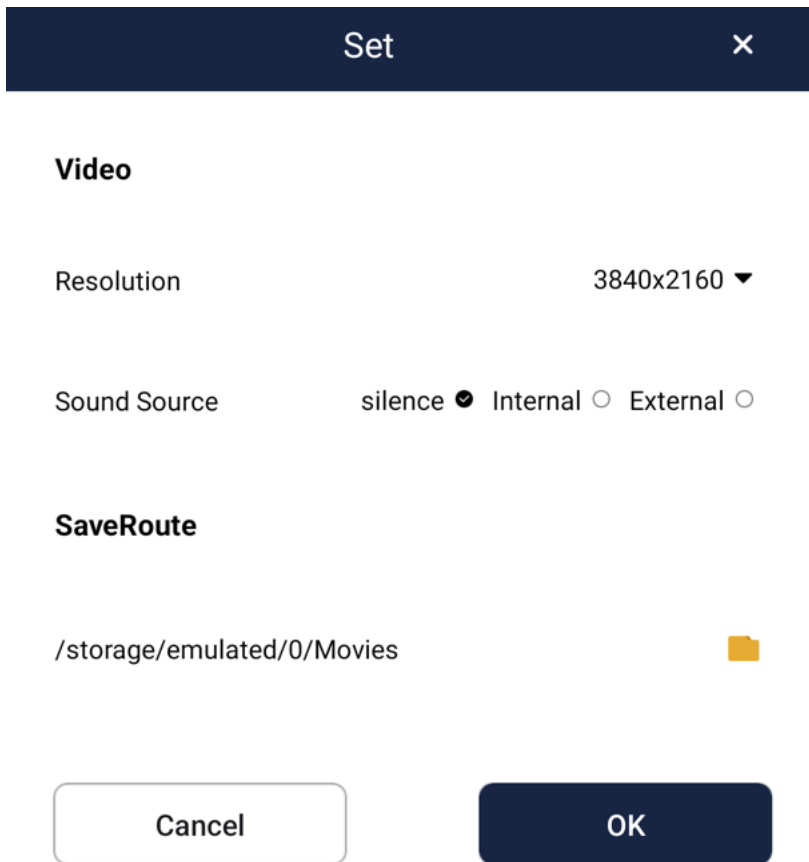
- You can use the stopwatch feature.





## ⑨ Tools - Record screen

- You can record the screen of the whiteboard.
- a. Press the Play button to start recording.



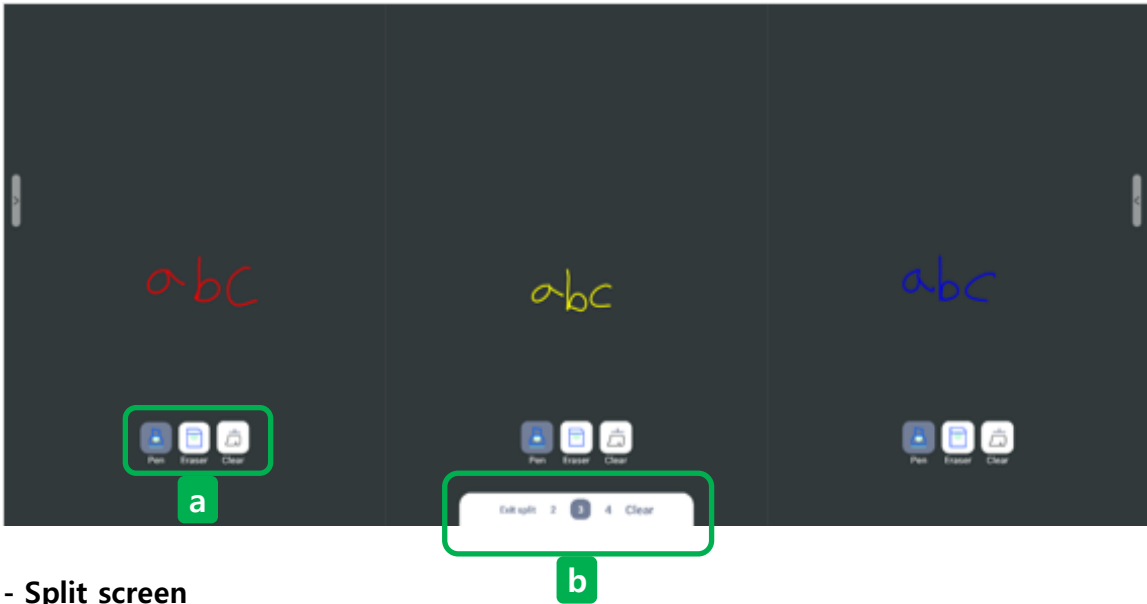
- b. Change the video settings.

Resolution: Change the resolution.

Sound source: Change the sound source.

Save route: Change the video's save path.

- c. Exit the video recording feature.



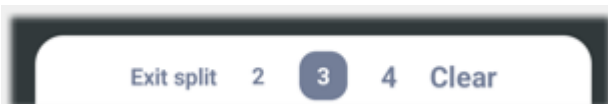
## ⑩ Tools - Split screen

- Screens can be split, and the number of splits can range from 2 to 4.



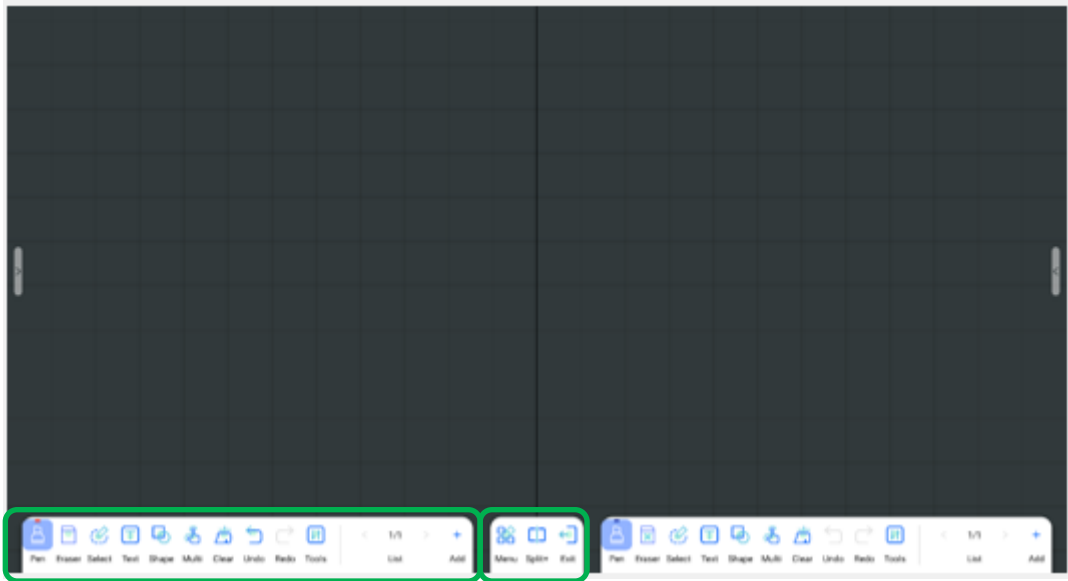
### A. Split Screen Individual Features

- \_ The Pen, Eraser, and Clear functions are available for each split screen.
- \_ Each feature is unmodifiable, unlike the features on the existing screen.



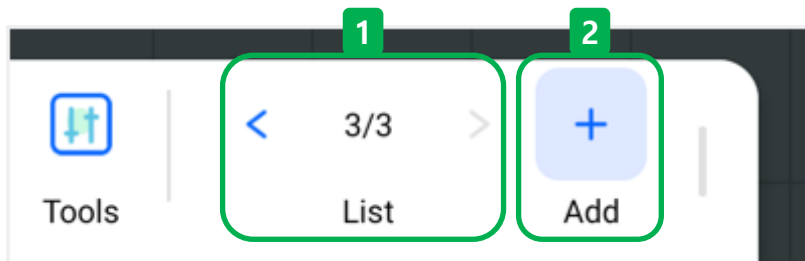
### b. Full Screen Features

- \_ Exit split : Exits the split screen and returns to the original screen.
- \_ Number of Splits: You can adjust the number of splits by selecting from 2 to 4.
- \_ Clear: Clears the contents of all split screens.



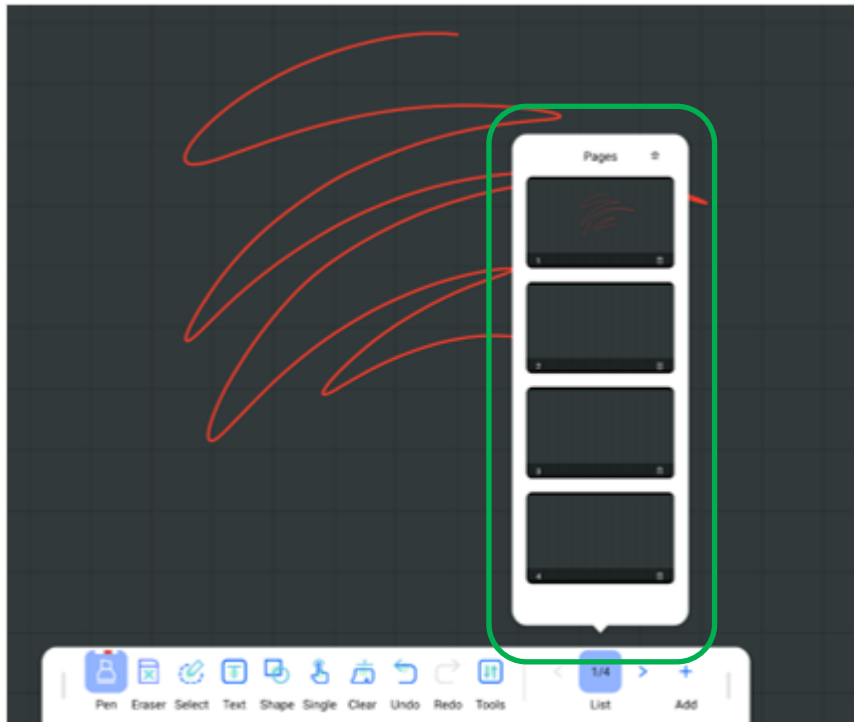
## ⑪ Tools - Split+

- Unlike a traditional split screen, you can still use all the features of the main screen after a split screen.



### 6.2.11 Page management

- You can manage whiteboard pages.

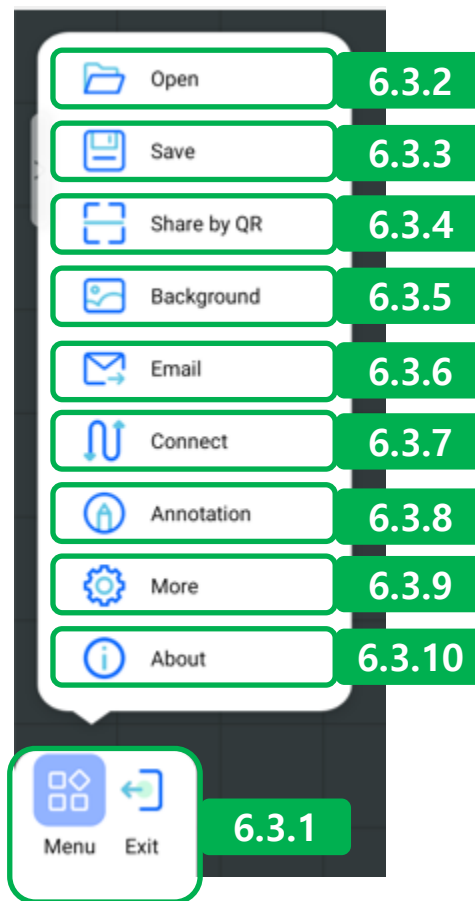


#### Switching pages

- < Flip to the previous page.
- > Turn to the next page.
- After pressing 'List', you can tap any page in the list of pages to bring it up directly.

#### Add a Page

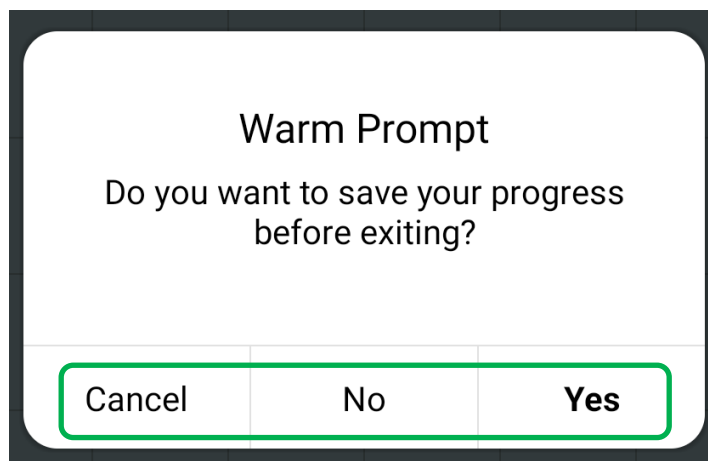
- Add the number of available pages.
- The default page count is 1/1 page.



## 6.3 Side menu

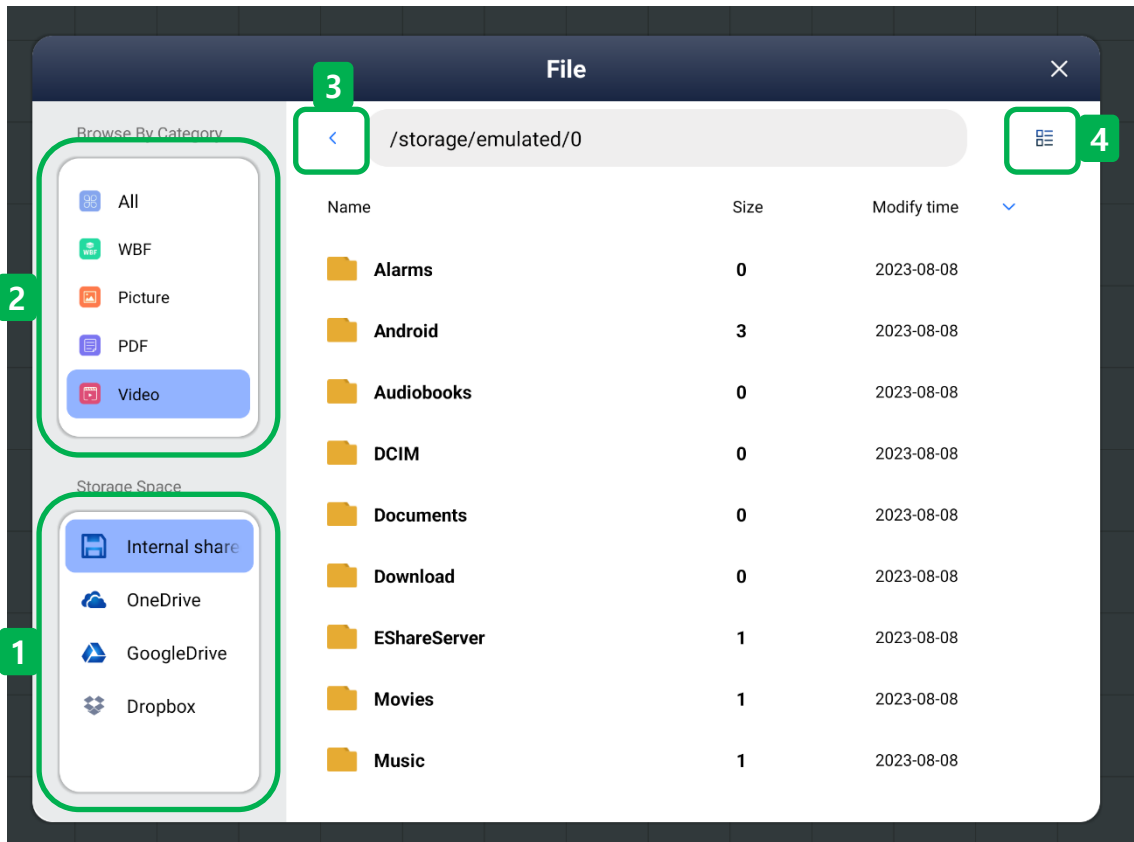
### 6.3.1 Menu & exit

Menu: Open the Menu window to select and use the desired function.



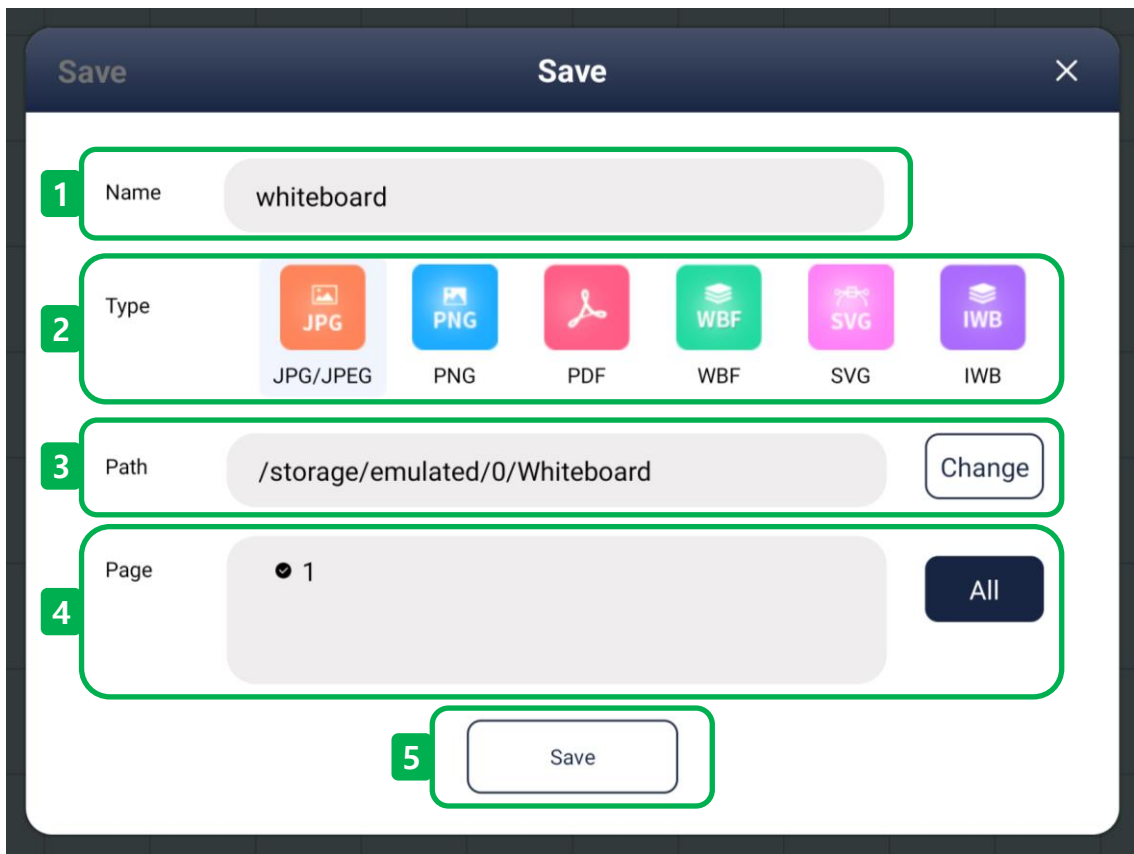
Exit : Exit the White board app.

- Cancel: Cancel closing the whiteboard app.
- No: Exit the app without saving the contents of the whiteboard.
- Yes : Save the contents of the whiteboard and exit the app.



### 6.3.2 Open

- ① File storage list: You can select an available storage to use.
- ② Categorize file extensions: Show only the selected extensions.
- ③ Back: Flip the page to the previous page.
- ④ Format conversion: Convert the way the files are listed.



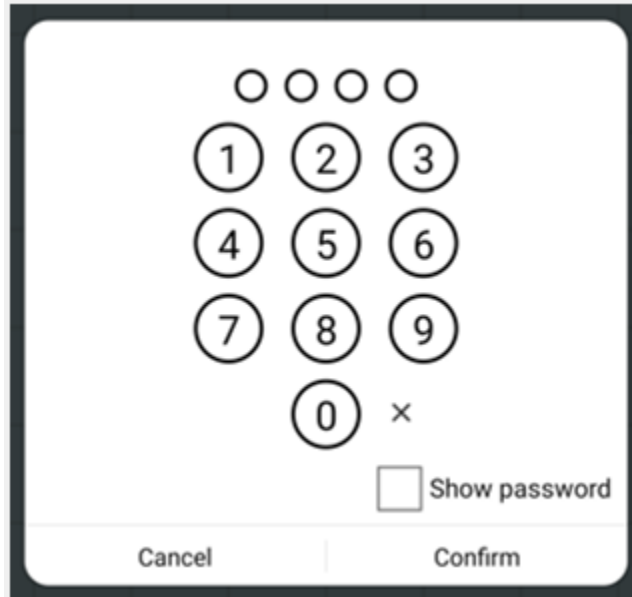
### 6.3.3 Save

- ① Name: Display the file name.
- ② Type: Select the extension of your save file.
- ③ Path: Select a storage location for the save file.
- ④ Page : Select a page of the whiteboard to save.
- ⑤ Save : Click the Save button to save the file.



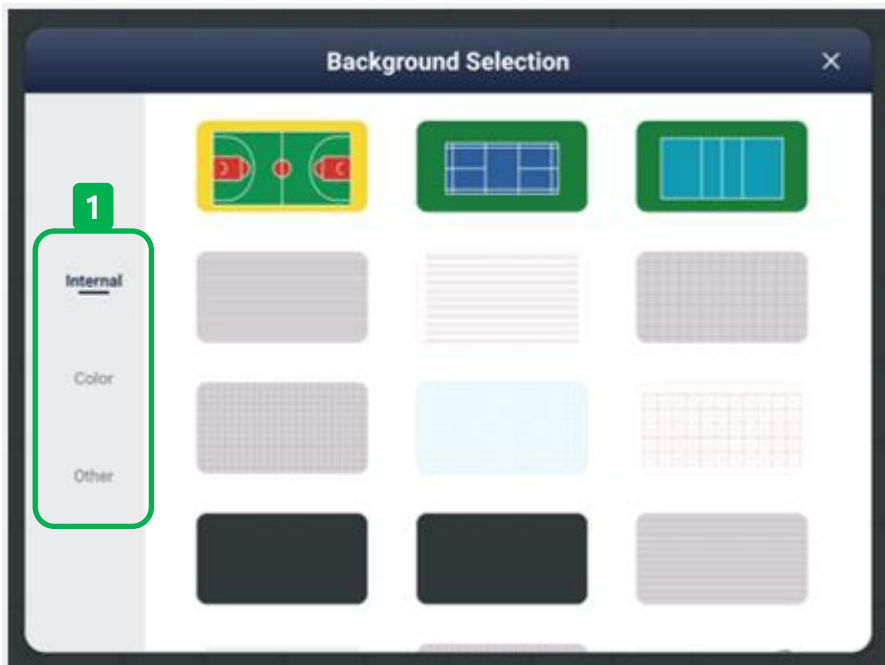
#### 6.3.4 Share by QR

- Share data by scanning a QR code. This feature works when devices are connected to the same network and use the to work.



① Encrypt: Enter a total of 4 digits to assign a password to the QR code.



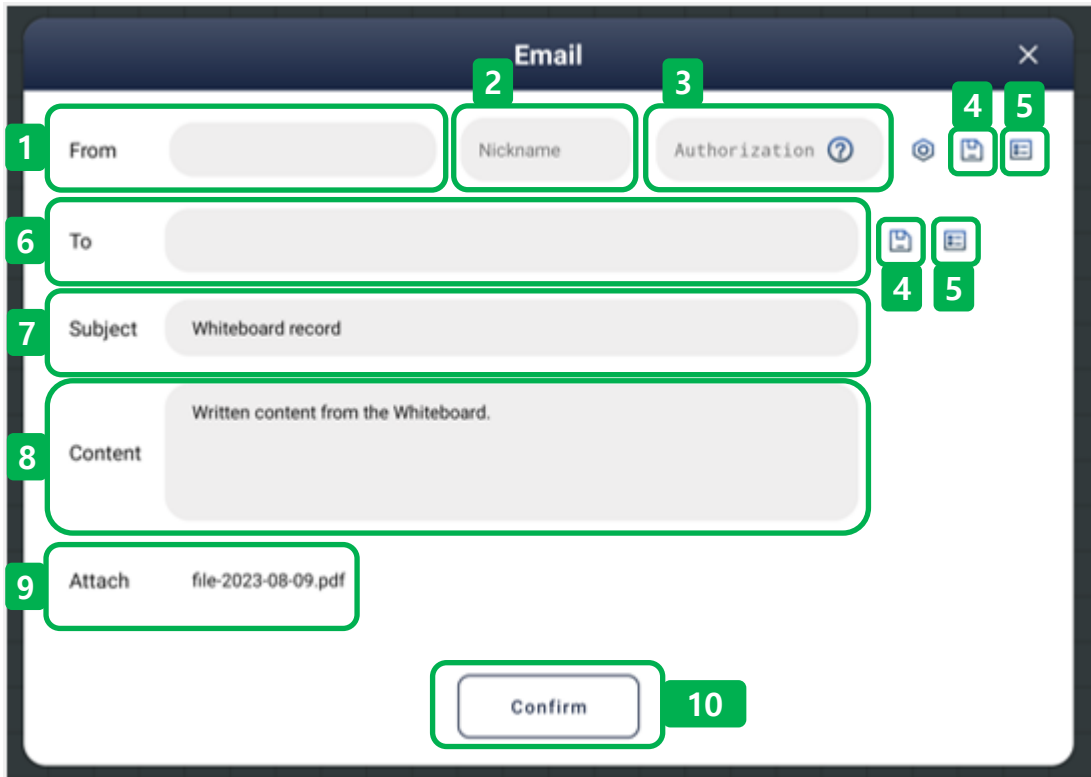


### 6.3.5 Background

① Internal: You can change the background by selecting from 15 default backgrounds.

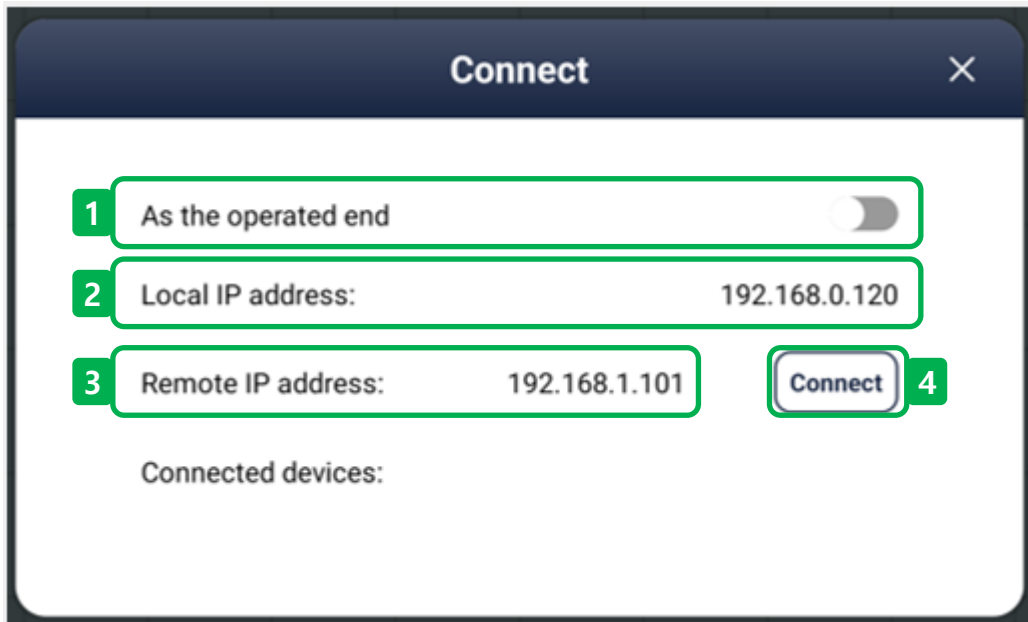


② Color: You can change the solid color background by freely selecting it from the Color board.



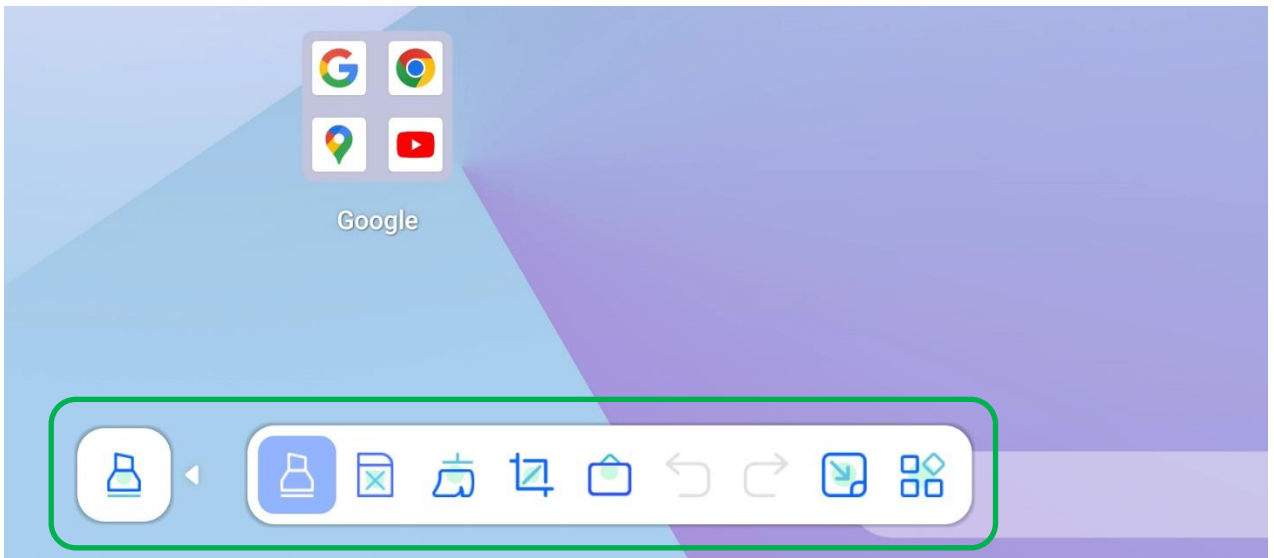
### 6.3.6 Email

- ① Sender - email address
- ② Sender - Name
- ③ Sender - Password
- ④ Save sender/recipient's account information
- ⑤ Select the sender/recipient's account
- ⑥ Recipient - email address
- ⑦ Edit the email subject
- ⑧ Edit email content
- ⑨ Send Date
- ⑩ Send an email



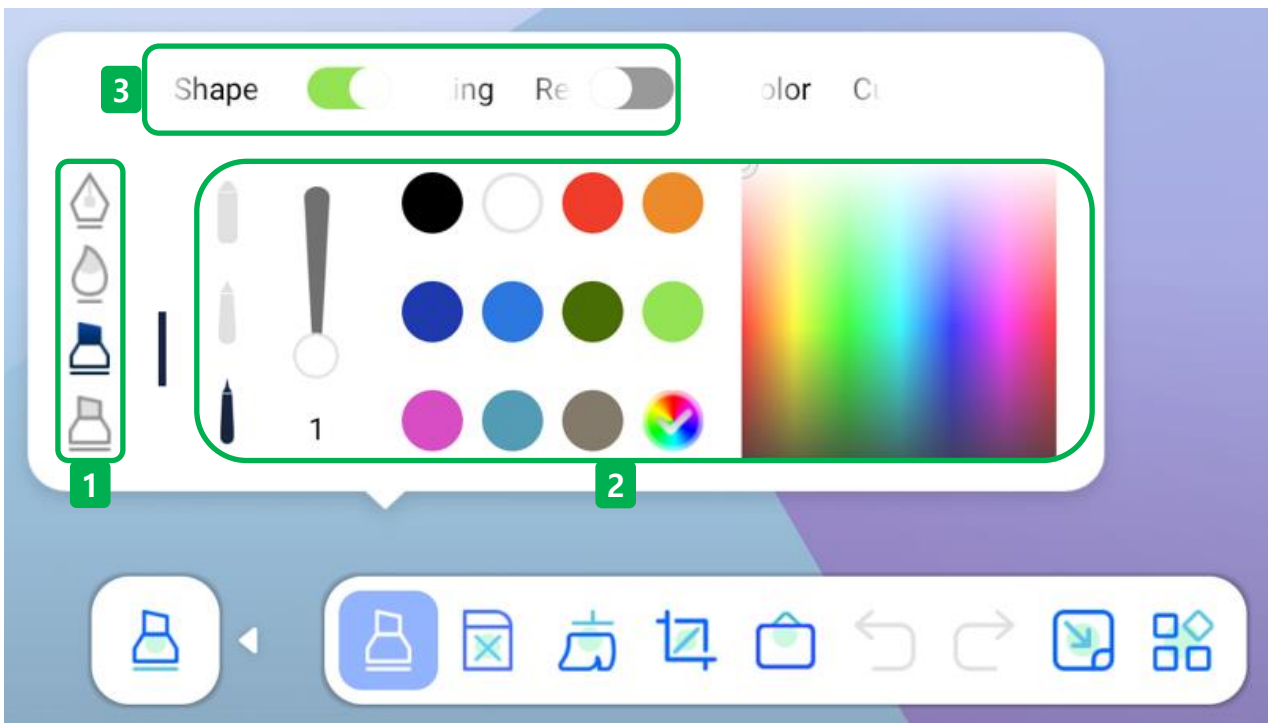
### 6.3.7 Connect

- ① As the operated end : Configure both whiteboards to the same network environment to share the whiteboard's screen.
- ② Local IP address: Indicates the network IP address of the current product.
- ③ Remote IP address: Indicates the network address of the blackboard to be connected.
- ④ Connect: Connect the two boards.



### 6.3.8 Annotation

- Users can hide or expand the Toolbar by pressing the left main icon.
- Users can change the position of the icon by dragging the left main icon.



#### 6.3.8.1 Pen-Annotation

- Users can freely change the type, thickness, color, etc. of the pen.

##### ① Pen type

- There are three types of pens: fountain pens, brush pens, and marker pens.

### ① Pen type

- There are three types of pens: fountain pens, brush pens, and marker pens.

### ② Pen's set by thickness recognition

- A total of 3 types of Pens can be used at the same time for each touch recognition thickness.

- S(Small Finger) : 2.8mm, B(Big finger) : 6.5mm, F(Stylish big finger) : 10mm

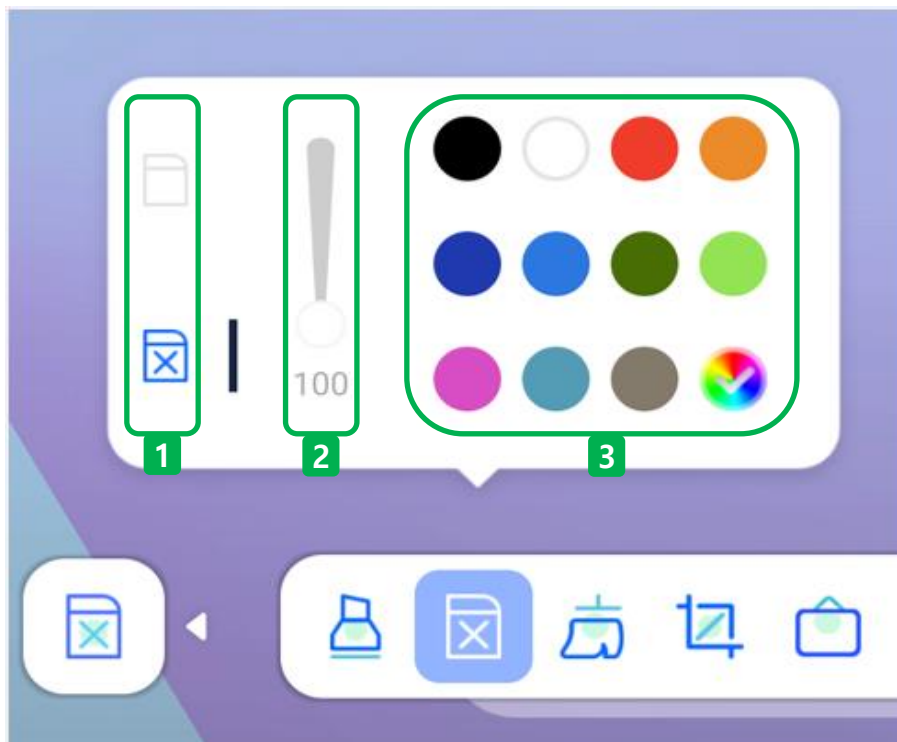
- Users can adjust the boldness by Pen's recognition, and can adjust it from 1 to 30.

- Users can freely specify the color on the color board according to Pen's perception.

### ③ Recognition function

- Automatically recognize the shape of the handwriting written in Pen and convert it into shapes or text.

(Choose one of the two and use it: Shape regeneration or Text regeneration..)



### 6.3.8.2 Eraser-Annotation

- Users can freely change the type, size, and color of the eraser.

#### ① Eraser type



<Default>



<select>



<gesture>

- There are three types of Eraser: basic, select and gesture.

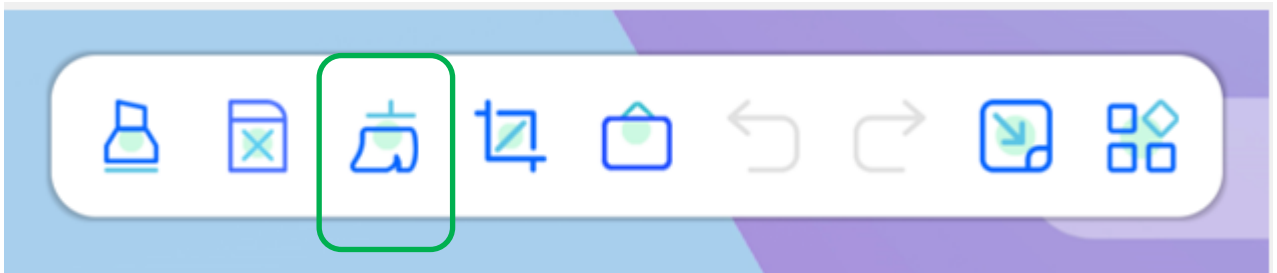
- Basic: It is an eraser with adjustable size, and you can freely specify and use it from 100~350.

## ② Resize the eraser

- It can be used by adjusting the size of the eraser, from 100 to 350.  
(This function works only in the default eraser..)

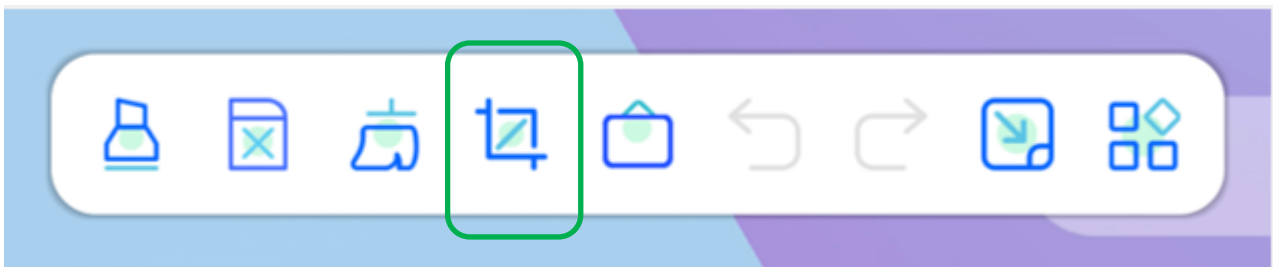
## ③ Select an eraser color

- Specifies the color of the object that users want to erase so that the eraser function works only for the specified color.
- This color allows the eraser function to work in all colors.  
(This feature works only in the selection eraser..)



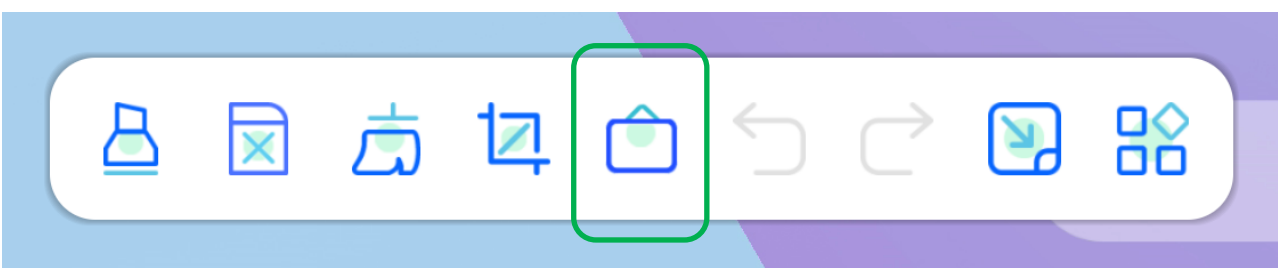
### 6.3.8.3 Clear-Annotation

- Erases all content on the screen at once.



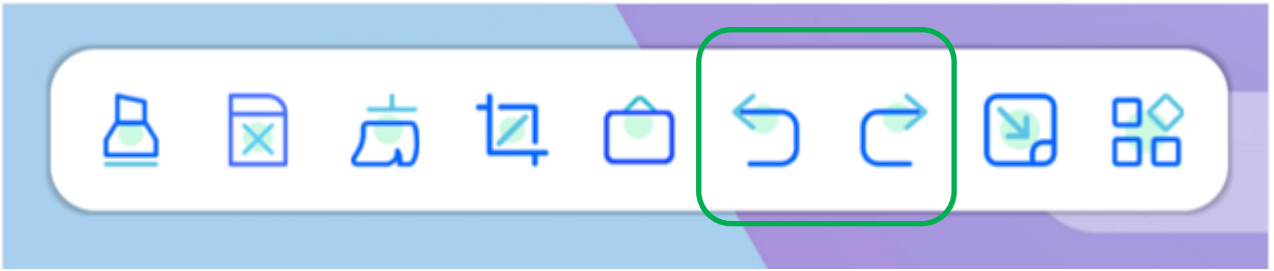
### 6.3.8.4 Screen shot-Annotation

- Capture the current screen.



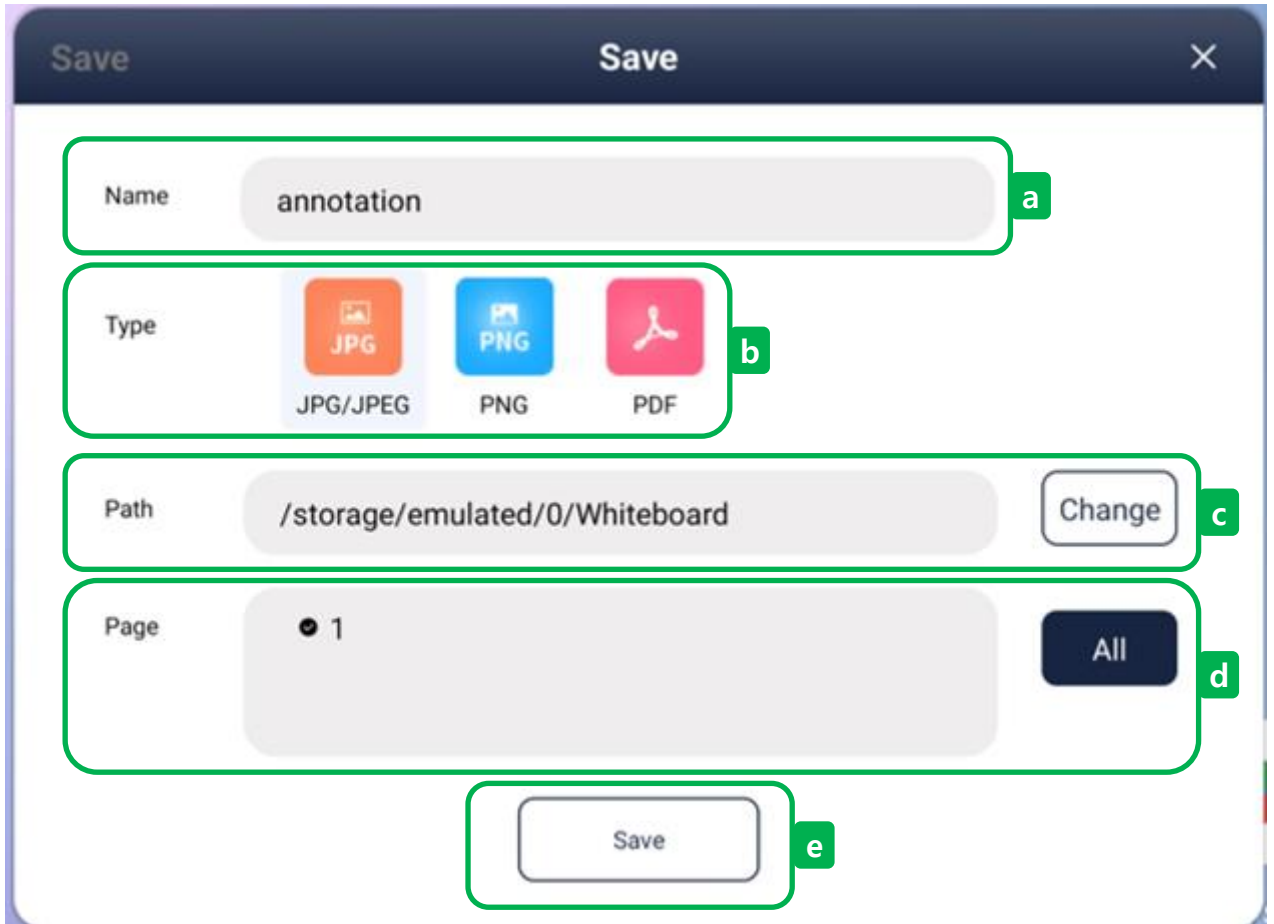
### 6.3.8.5 White board connection-Annotation

- Immediately launch the White Board window.



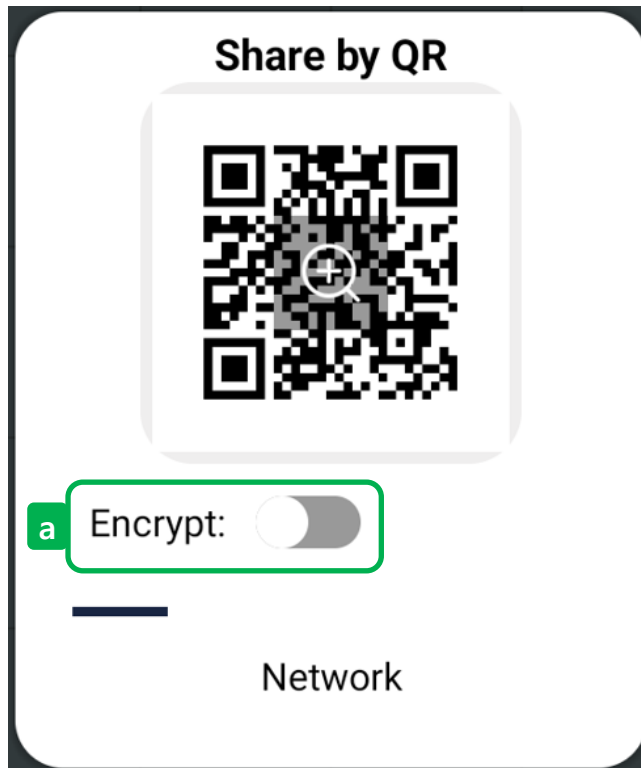
### 6.3.8.6 Undo & Redo-Annotation

- Undo : Cancel the most recent touch.
- Redo : Recover the most recent touch..



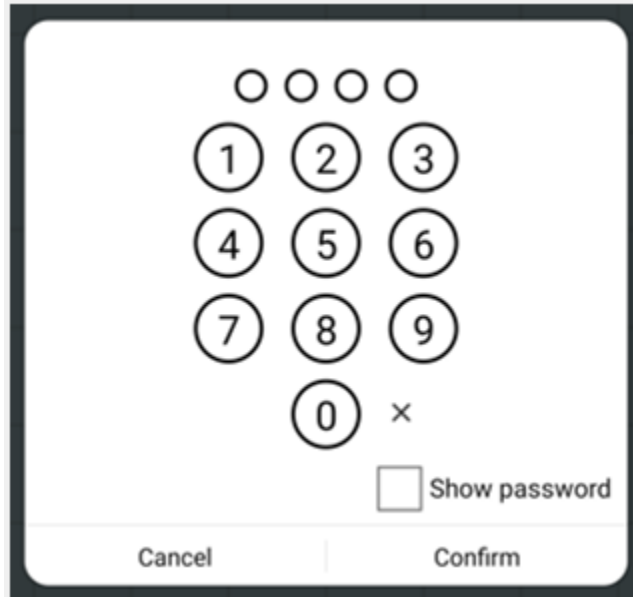
### ① Save-Annotation

- Name : Displays the file name.
- Type : Select the extension for the save file.
- Path : Select the storage for the save file.
- Page : Select the content of the Annotation to save.
- Save : Press the Save button to save the file.



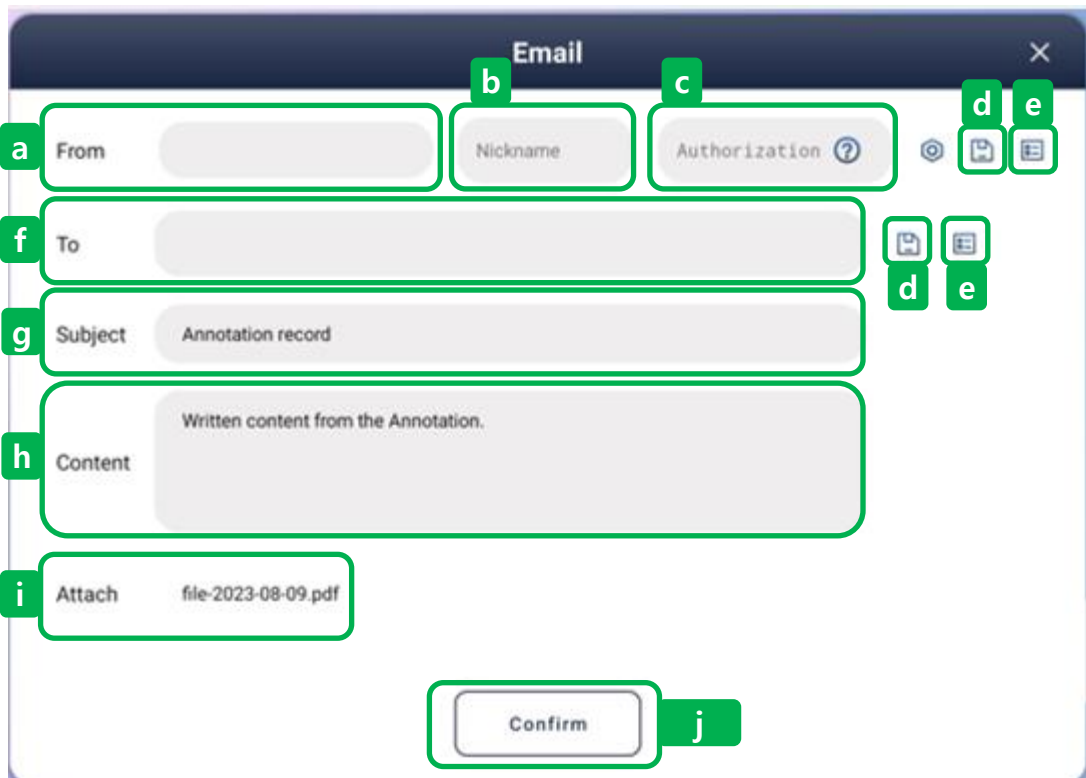
## ② Share-Annotation

- Scan the QR code to share data. This function must be connected to the same network between devices.



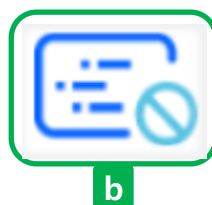
a. Encrypt : Enter a total of 4 digits to give a password to the QR code.





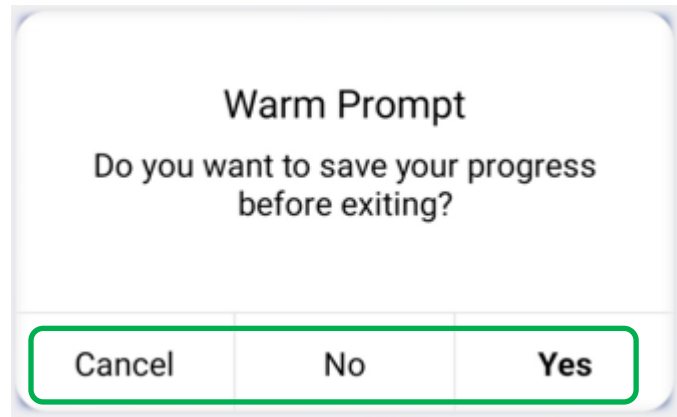
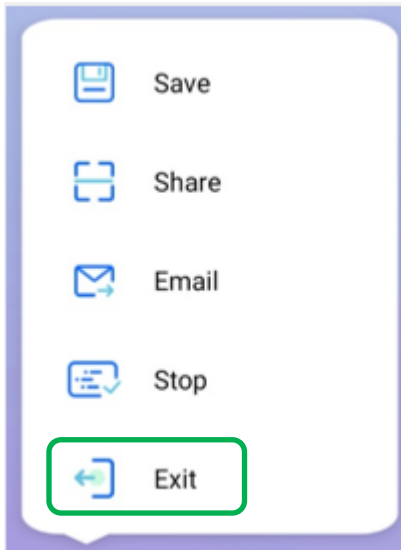
### ③ Email-Annotation

- a. Sender -Email Address
- b. Sender - Name
- c. Sender -Password
- d. Save account information of sender/recipient
- e. Select account of the sender/recipient
- f. Recipient -Email Address
- g. Email title modification
- h. Email content modification
- I. Sent date
- J. Send a email.



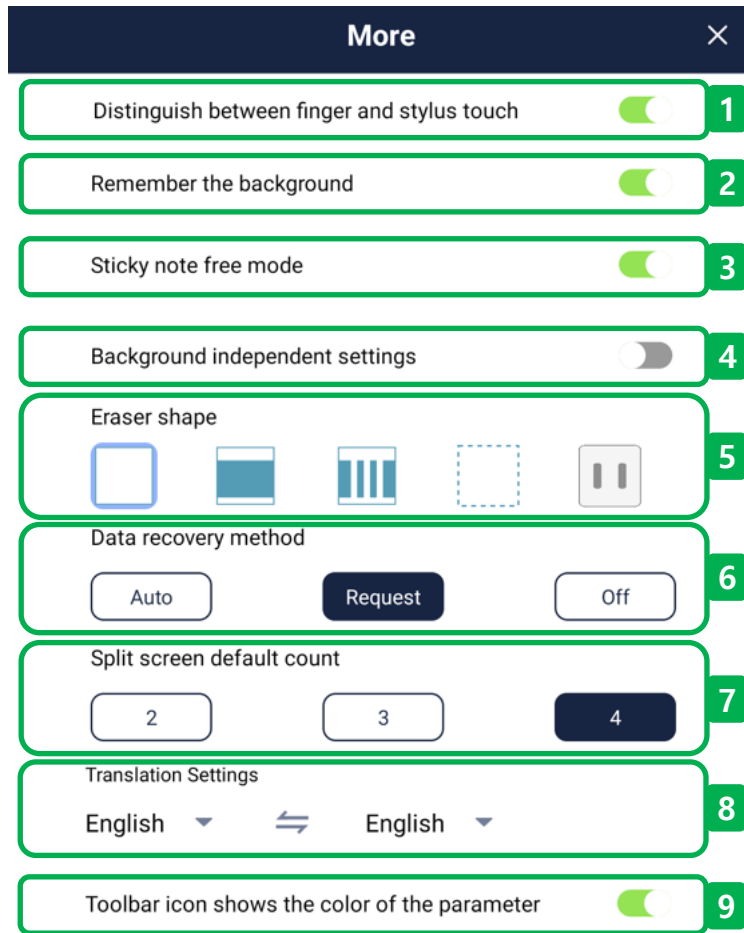
### ④ Background stop-Annotation

- a. Static Status: Background Screen changes to dynamic state when clicking on the button.
- b. Dynamic status: Background screen is changed to static state when clicking on the button.



### ⑤ Exit-Annotation

- Cancel : Cancel the exit of the White board app.
- No : Exit the app without saving the content of the White Board.
- Yes : Exit the app with saving the content of the White Board.



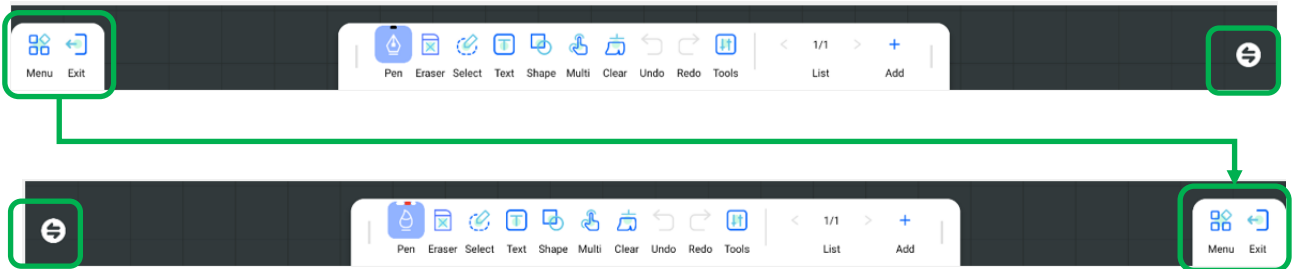
### 6.3.9 More function

- ① On/off the pen type function according to the pen thickness recognition.
- ② On/off the function to keep the wallpaper the same as before the shutdown when running the Whiteboard app again after exiting.
- ③ On/off the function that allows the entire page notes to move freely.
- ④ On/off the function that allows to set the wallpaper differently for each page.
- ⑤ Change the appearance of Eraser.
- ⑥ On/off the function to recover the contents of the Whiteboard app when it is forced to shut down.
- ⑦ Specifies the default number of split screens when using the Split screen feature.
- ⑧ Set the first translation language when using the Text translation feature.
- ⑨ On/off the function that shows the current color status of the toolbar icon.



### 6.3.10 About

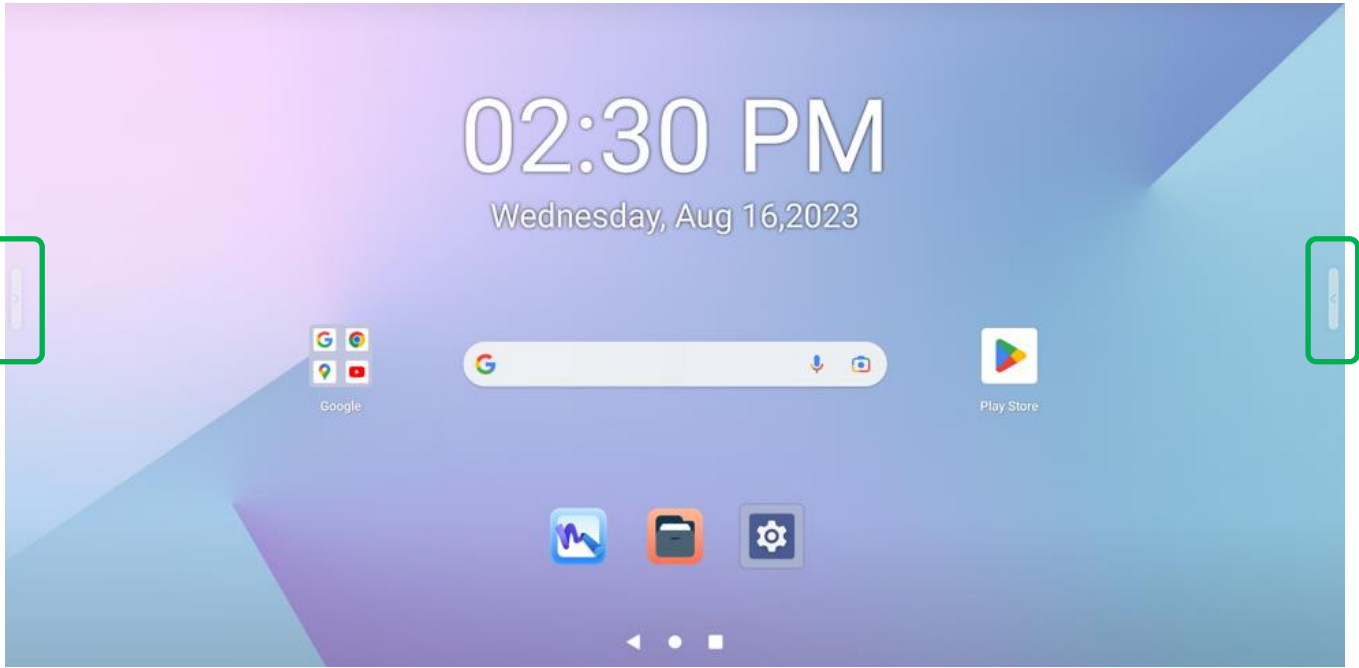
- Check the latest version information of the Whiteboard App.



### 6.4 Side menu bar swap

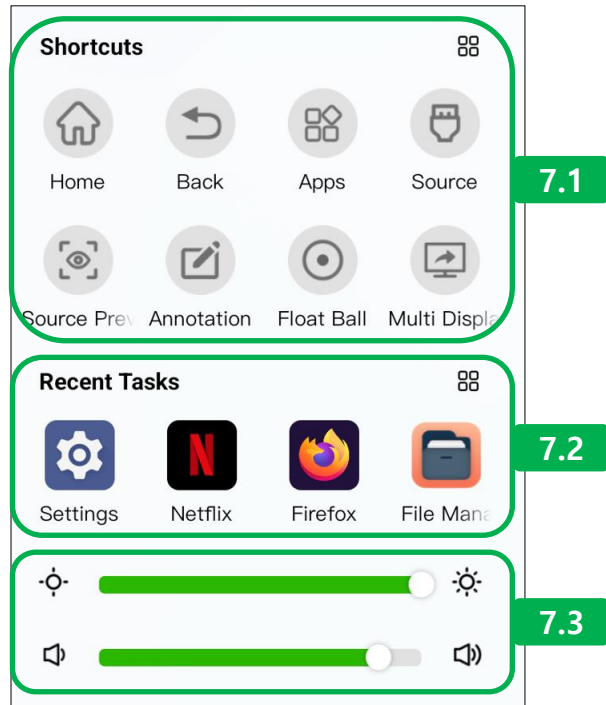
- Change the location of Side Menu Bar by pressing the SWAP button.

# 7. Side toolbar




## ❖ Side toolbar

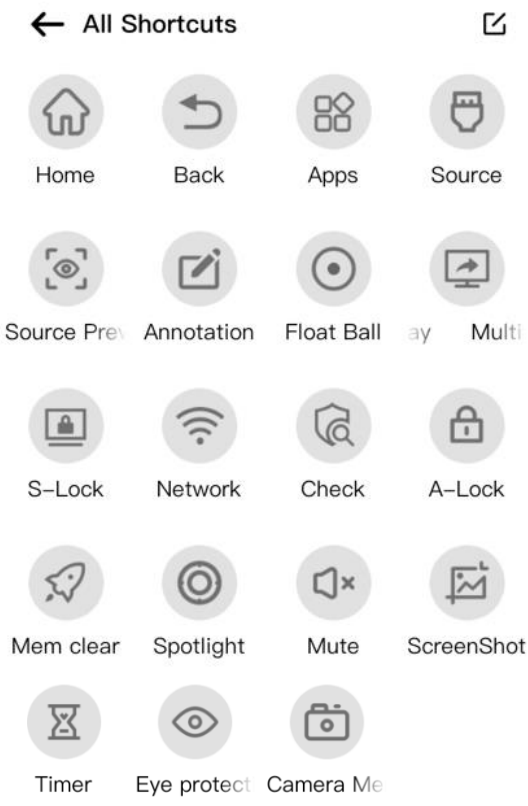
- By using the function of the side toolbar, users can use the device more easily and quickly.



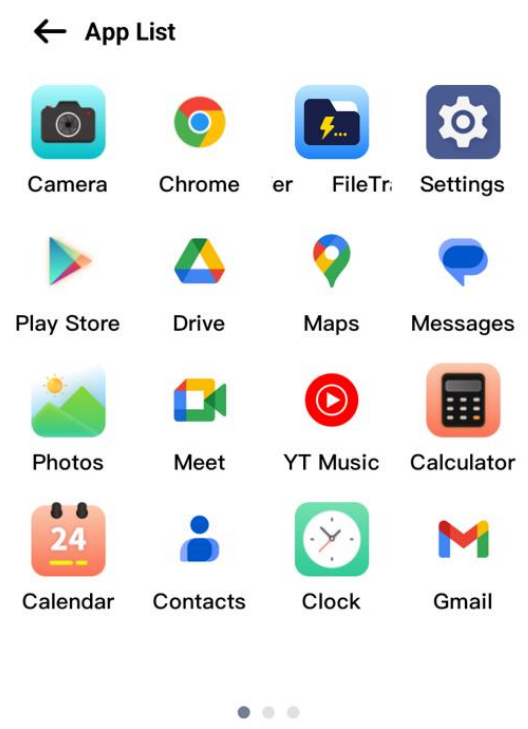
## 7.1 Shortcuts

- By registering frequently used features within the device, users can quickly operate the functions.
- Up to 8 can be registered on the main screen, and can change the registration function by pressing the button. 

# 7.1 Shortcuts

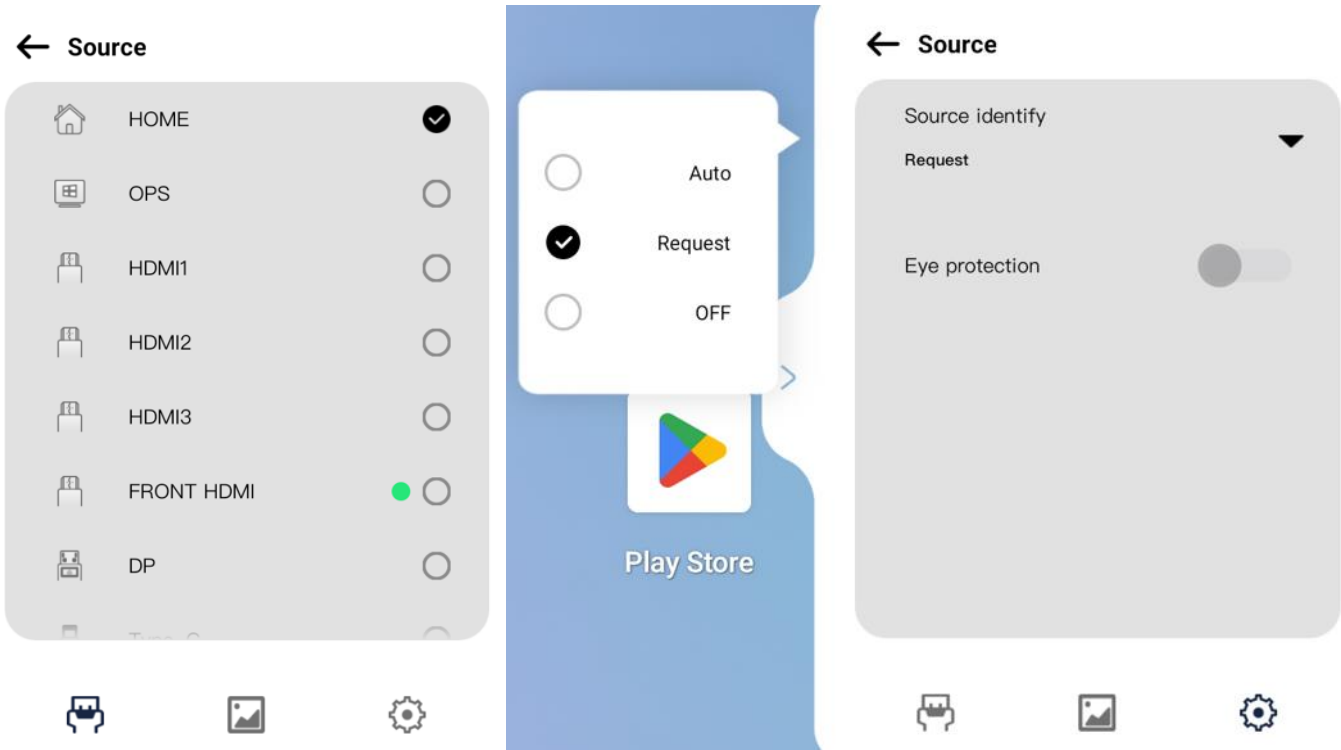


- ① Home : Go to the main home screen.
- ② Back : Go to the previous screen.

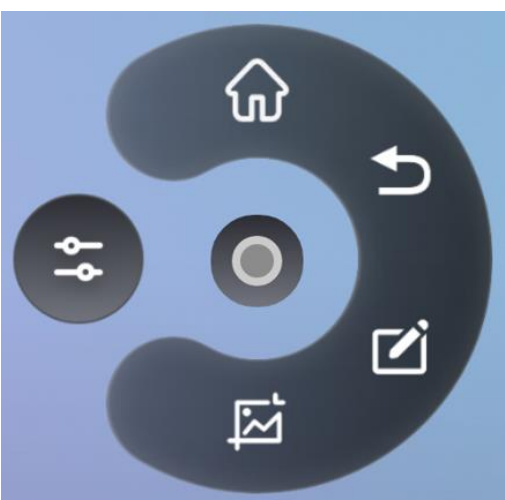


- ③ Apps : Shows the apps on the device.

# 7.1 Shortcuts

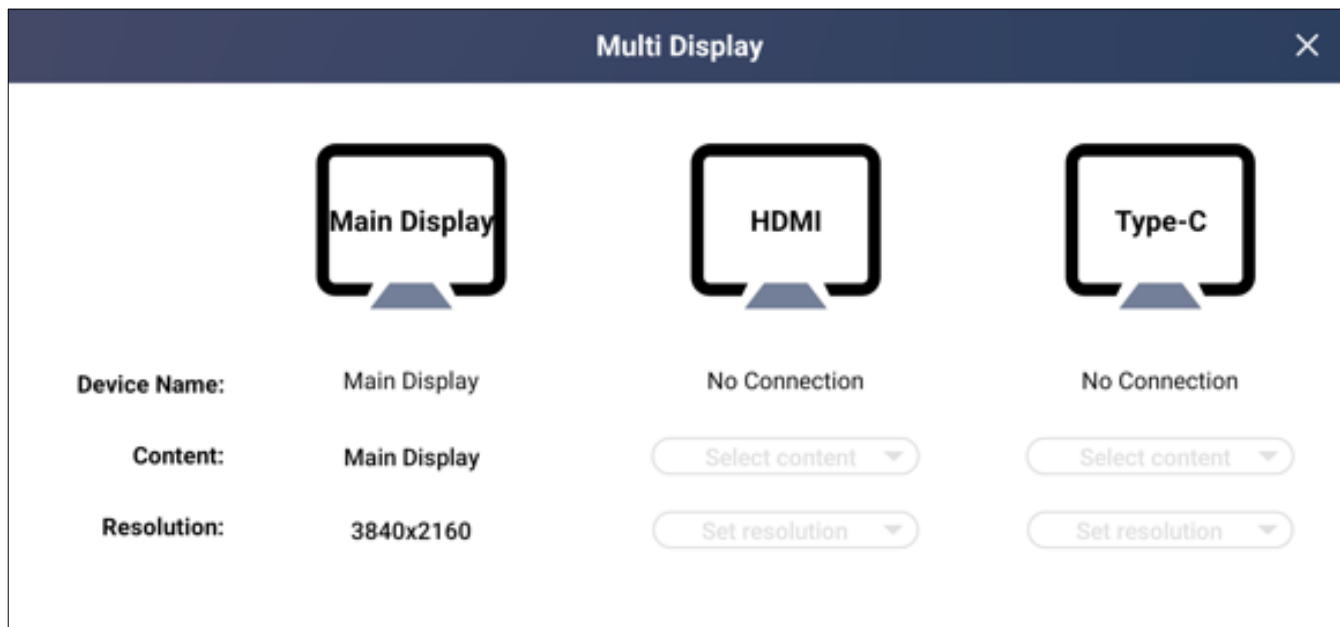


- ④ Source : Shows the source that the device is connected to or can be connected to
  - Touch icon to set the transition method upon source recognition, and to set eye protection.
- ⑤ Source preview : Users can view the connected screen first before switching the screen of the connected source.
- ⑥ Annotation : Regardless of the current screen status of the device, users can write on the screen.

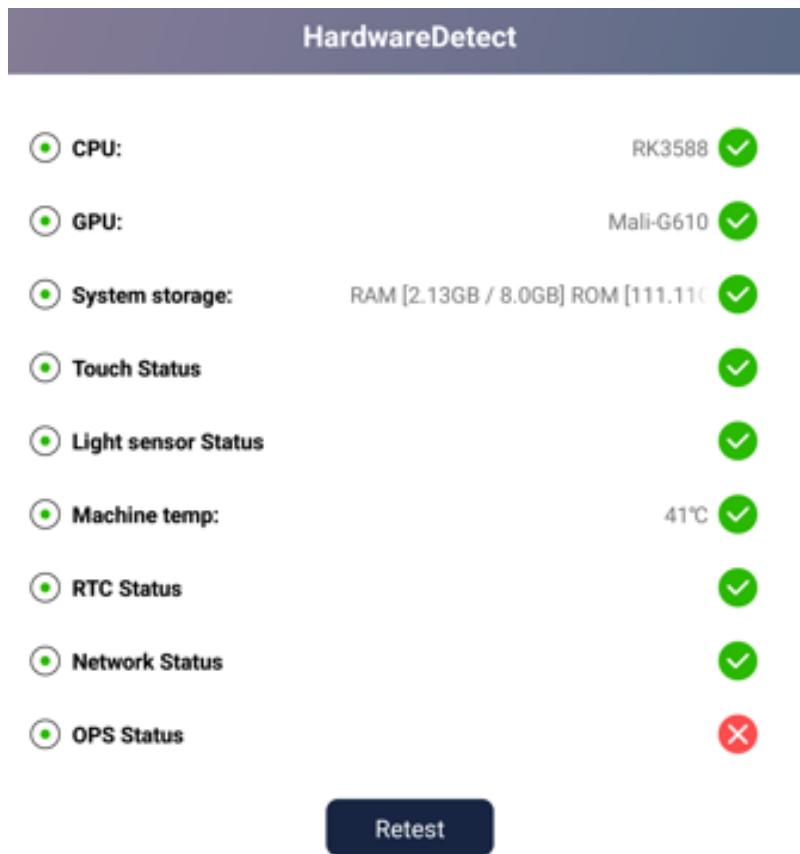


- ⑦ Float ball : Even when the screen is switched, users can use the frequently used buttons separately.

# 7.1 Shortcuts



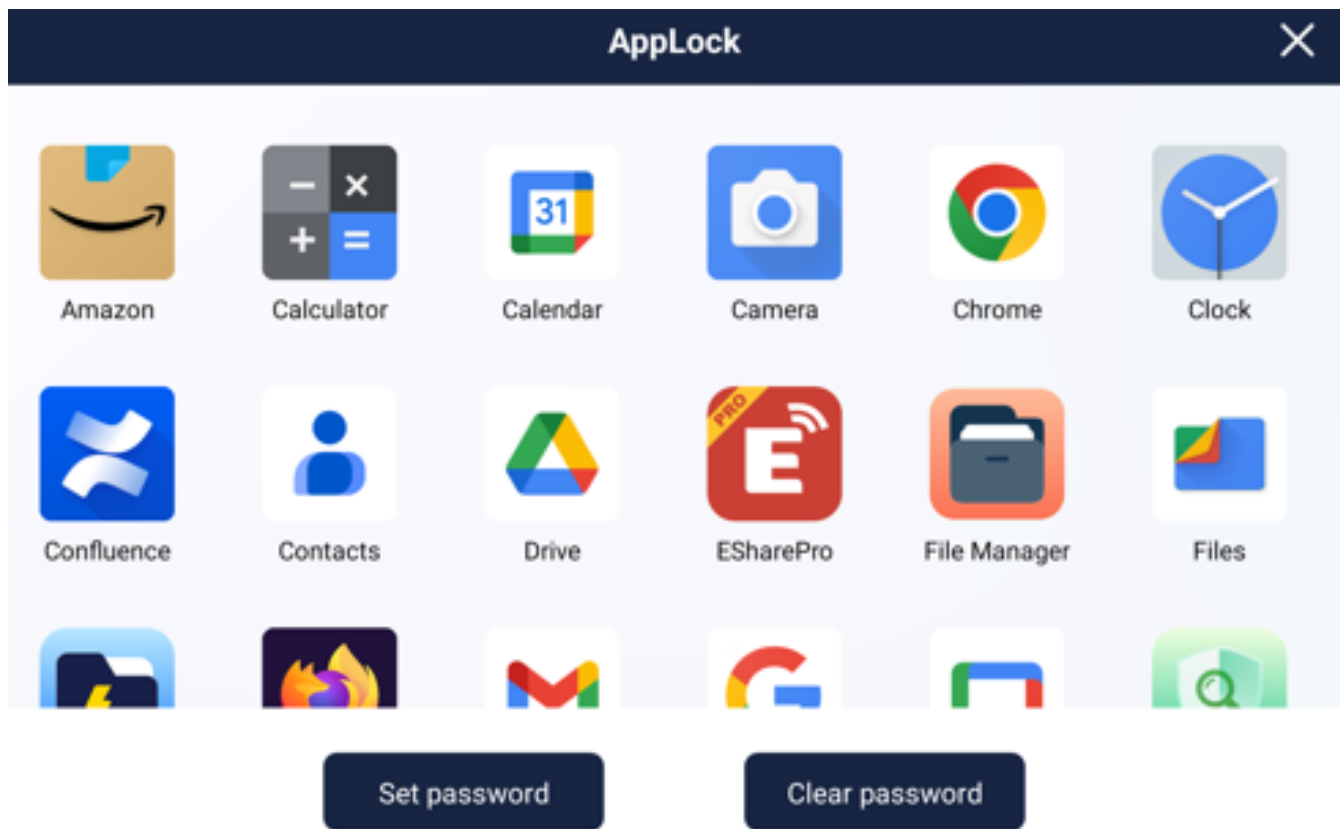
- ⑧ Multi display : Check data such as the connection status and resolution of multiple display sources.
- ⑨ S-Lock : Lock the screen by assigning a password to the current screen.
- ⑩ Network : Check the connection status by opening a network window.




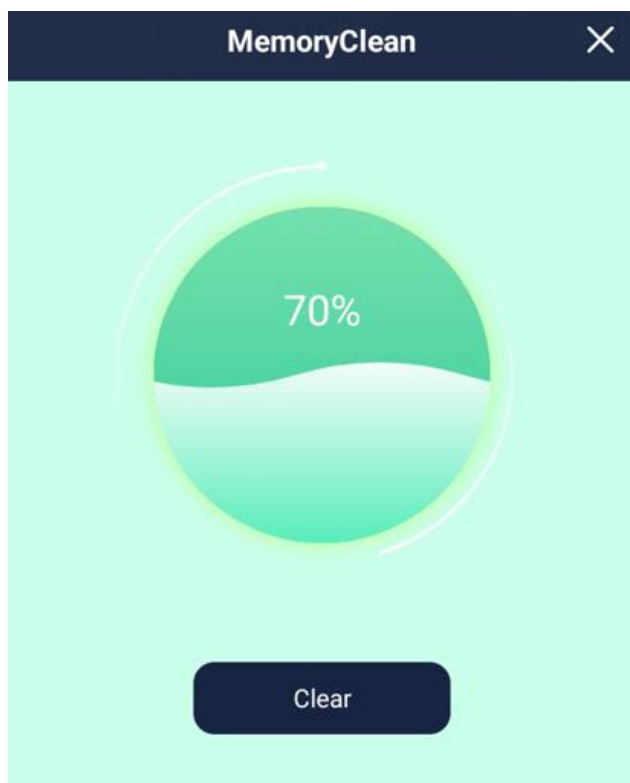
- ⑪ Check : Check the current hardware status in the current device.




## 7.1 Shortcuts






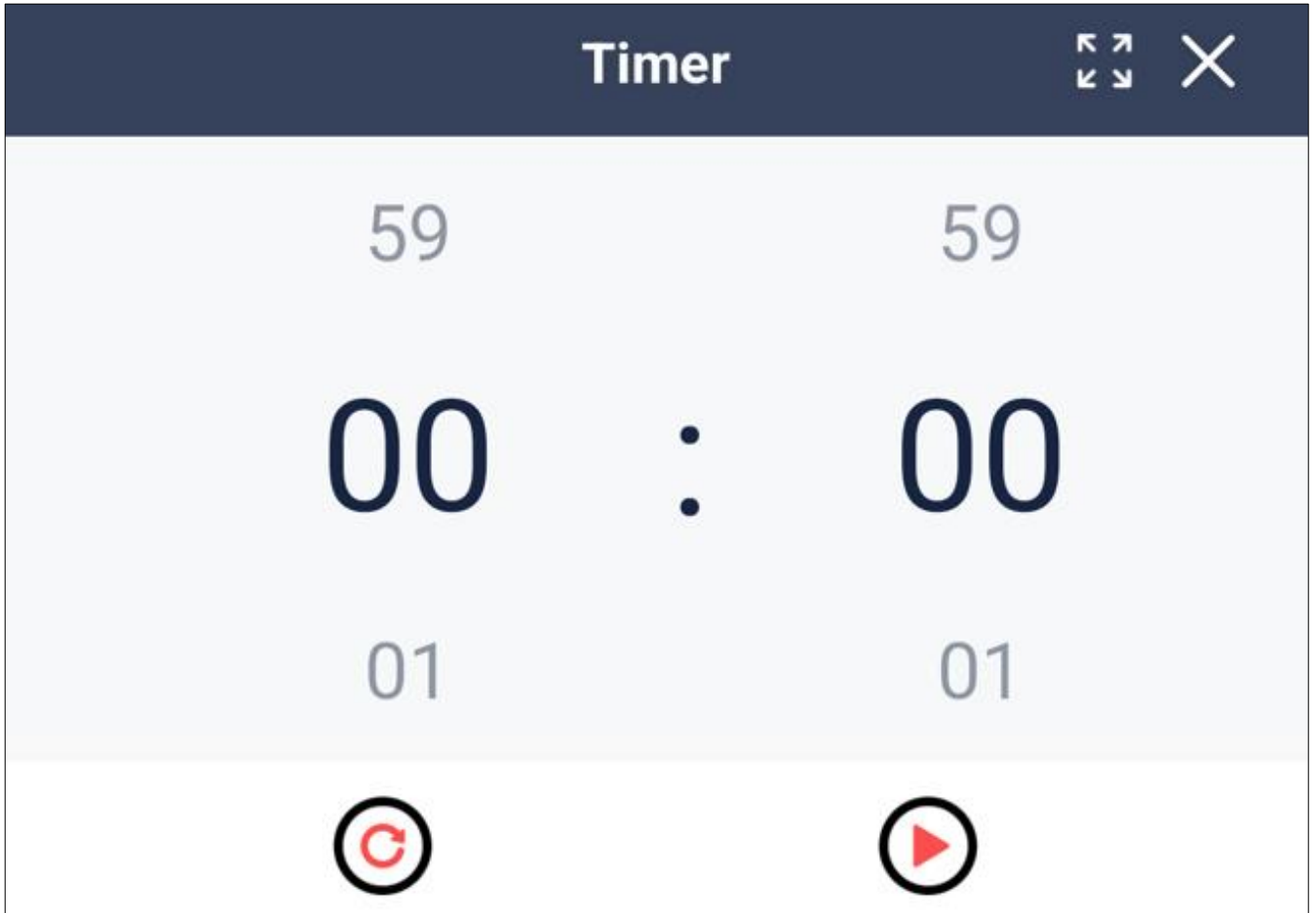
⑫  A-Lock : Lock by giving passwords to apps in the device.





⑬  Mem clear : Check the current memory status and delete unnecessary data.

## 7.1 Shortcuts


- ⑭  Spotlight : Darken the rest of the area except for the specified area.
- ⑮  Mute : Change the sound of the device to 0.
- ⑯  Screen shot : Capture the screen by specifying the part of the current screen.



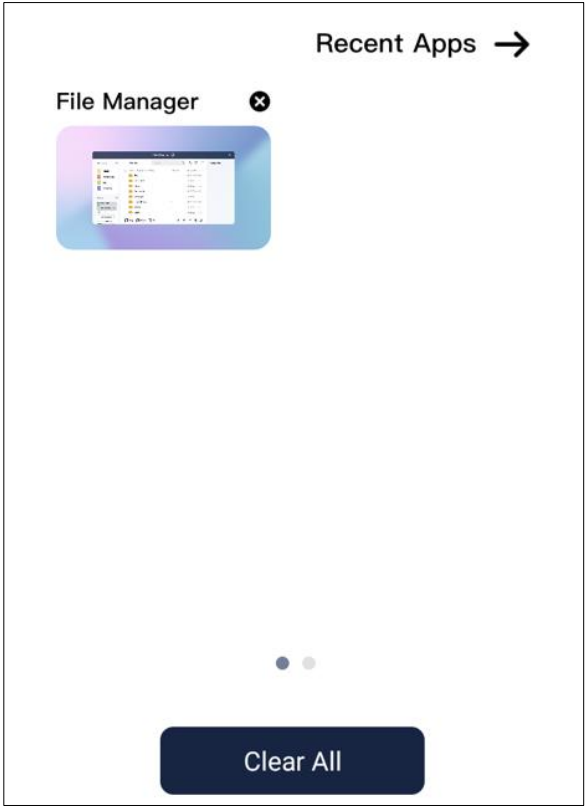
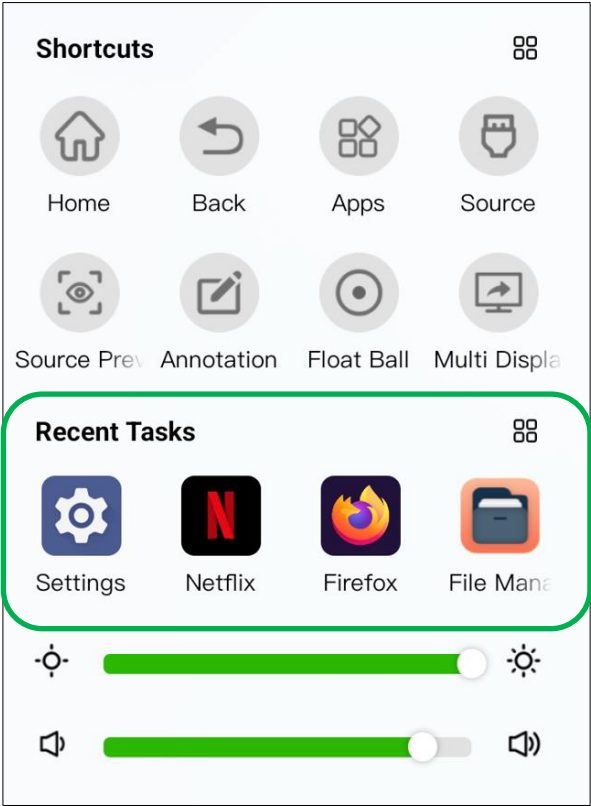
- ⑰  Timer : Use a stopwatch.
- ⑱  Eye protection : Operates the blue light blocking function.


## 7.1 Shortcuts



- ①9  Camera menu : Use the video conference feature of the camera app more conveniently.
- Voice mute : Block the array microphone function.
  - Voice tracking : Recognizes the voice within the camera range and zooms in on the speaker.
  - Auto frame : Recognize people within the camera range and expand to the maximum range.
  - Echo : Improves sound quality through noise reduction.

## 7.2 Recent tasks



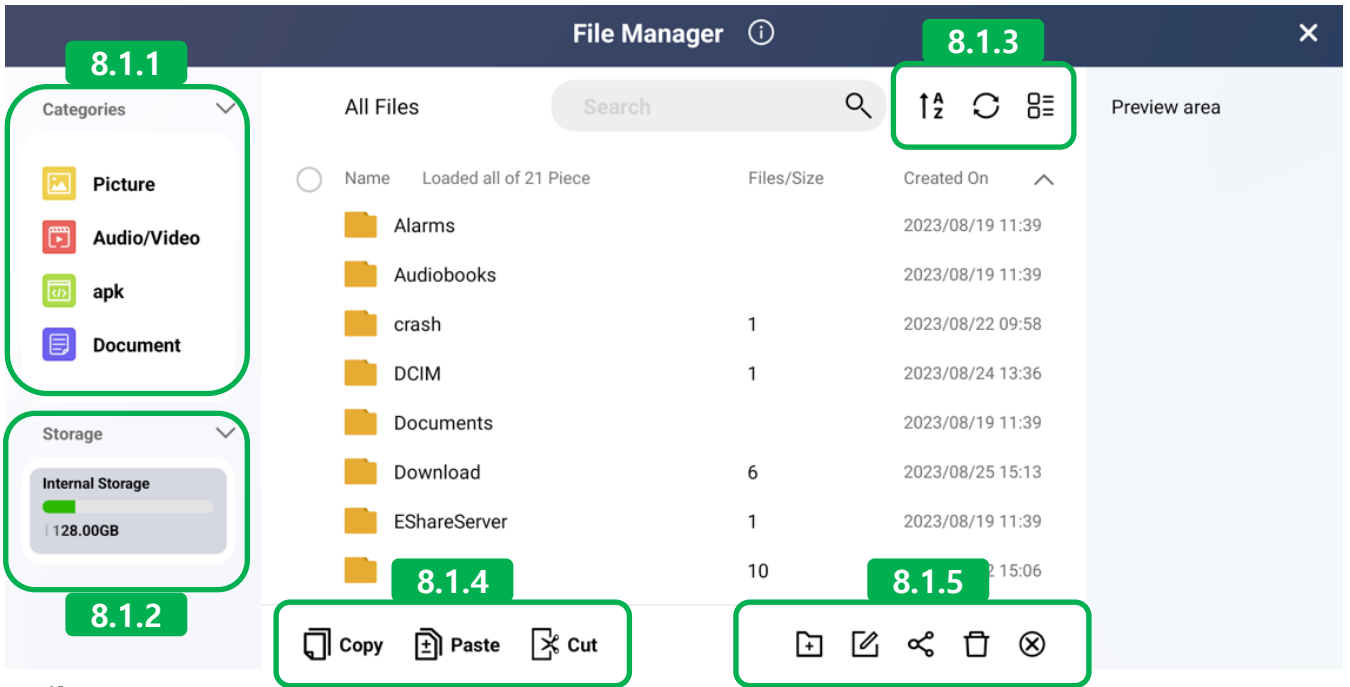
- Shows recently used apps.
-  Press the icon to check the currently running app and exit the running app.



## 7.3 Brightness & volume control

- Adjust the brightness and volume of the device at the bottom of the side menu

## 8. Etc app



### 8.1 File manager

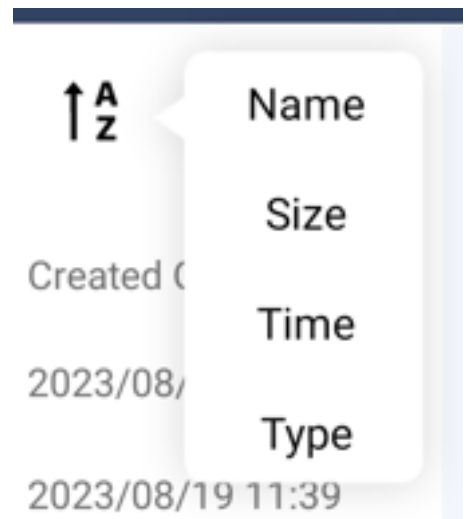
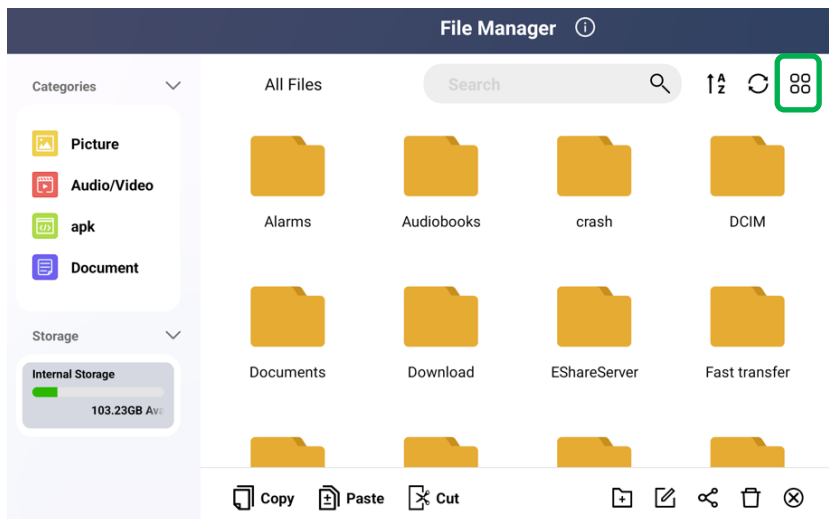
- Manage storage files on the device.

#### 8.1.1 Categories


- Shows the file by selecting the extension users want.

#### 8.1.2 Storage

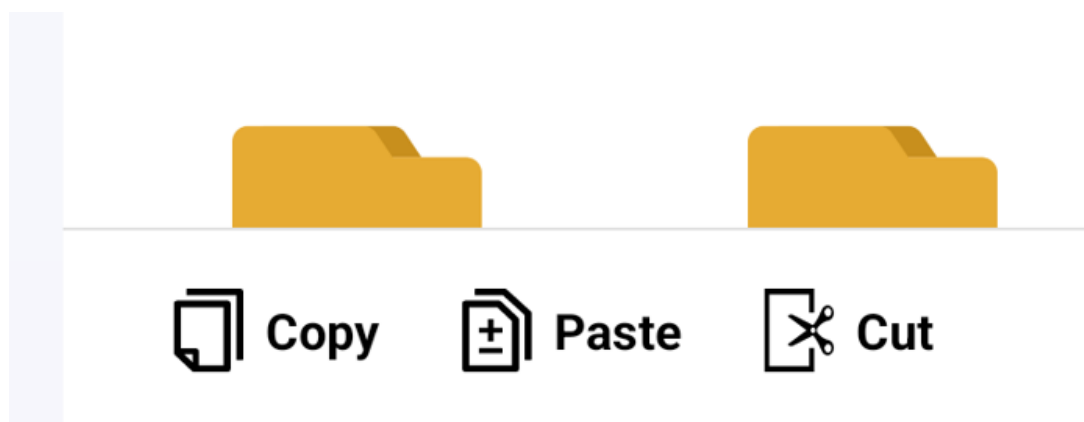
- Shows the default and additional detected storage for the device.



#### 8.1.3 File 보기

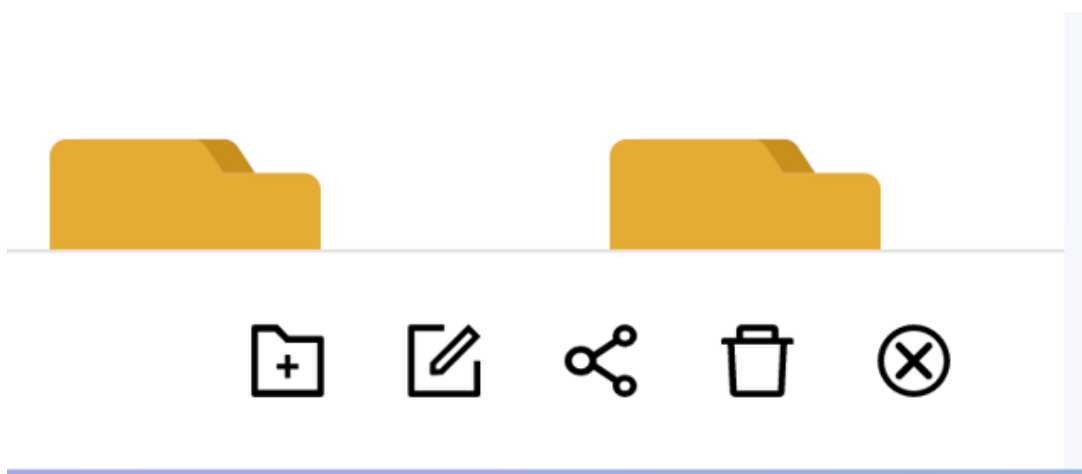
-  Press the button to enlarge the file icon or arrange the contents for a more detailed view.

## 8.1 File manager



### 8.1.4 File copy

- Copy : Copy the selected file.
- Paste : Put the copied file in another folder or another storage.
- Cut : Cut the selected file and place it in a different folder or in a different store.  
(Files disappear from existing storage)

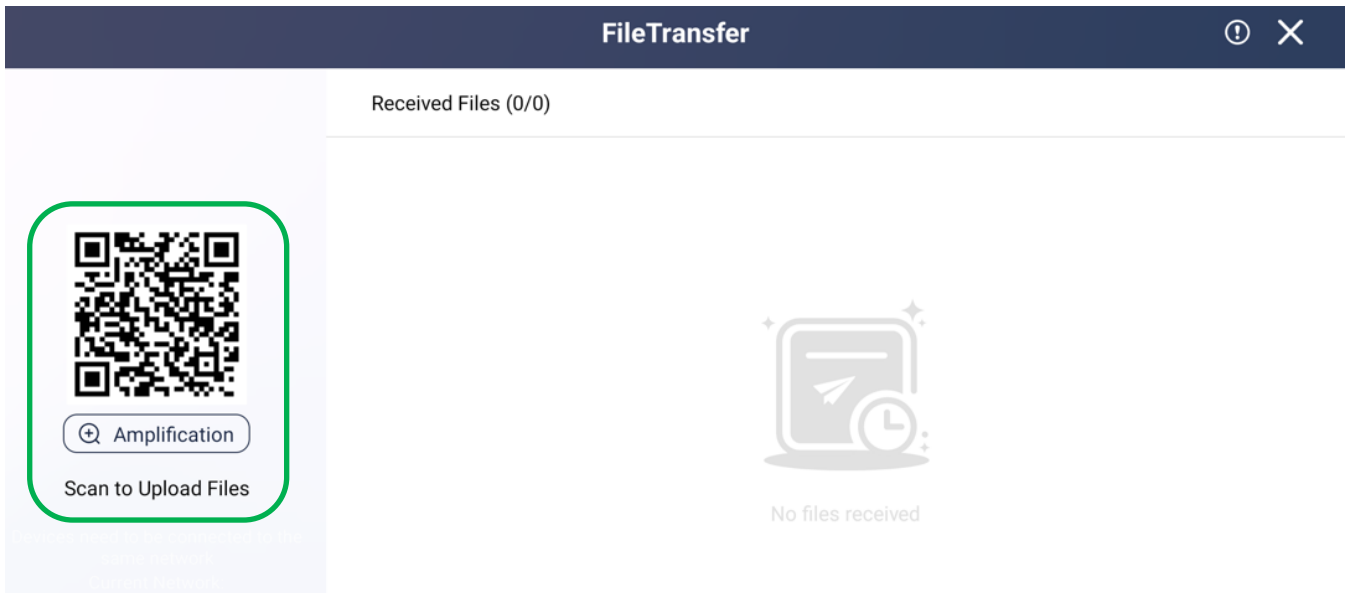


### 8.1.5 File copy

- New Folder: Creates a new file.
- Edit filename: Select a file or folder to edit its name.
- Share: Share the selected file by Bluetooth or email.
- Delete: Delete the selected file or folder.
- Cancel: Cancels a selection, copy, etc. on a file.

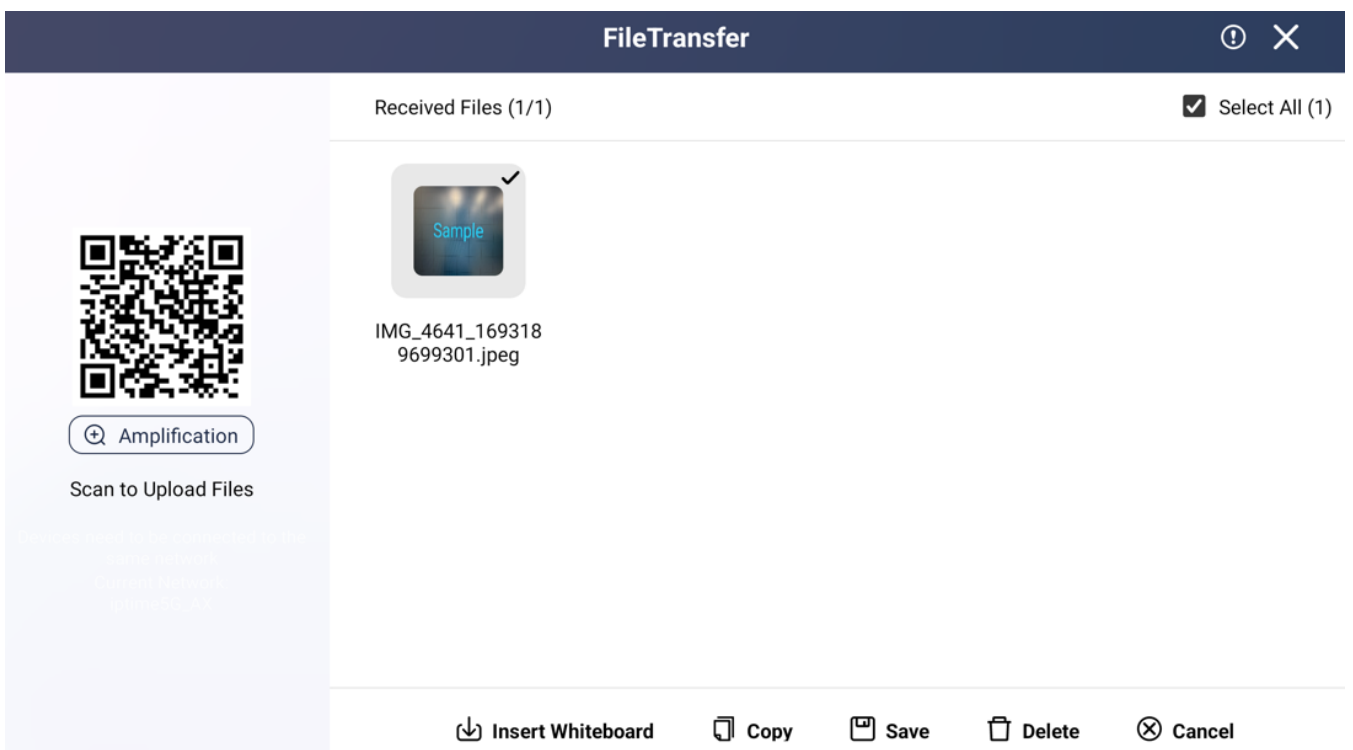
## 8.2 File Transfer

- Files from external devices can be quickly transferred to the inside of this device.



### 8.2.1 QR code Scan

- Scan the QR Code with an external device and upload multiple files from the external device immediately.

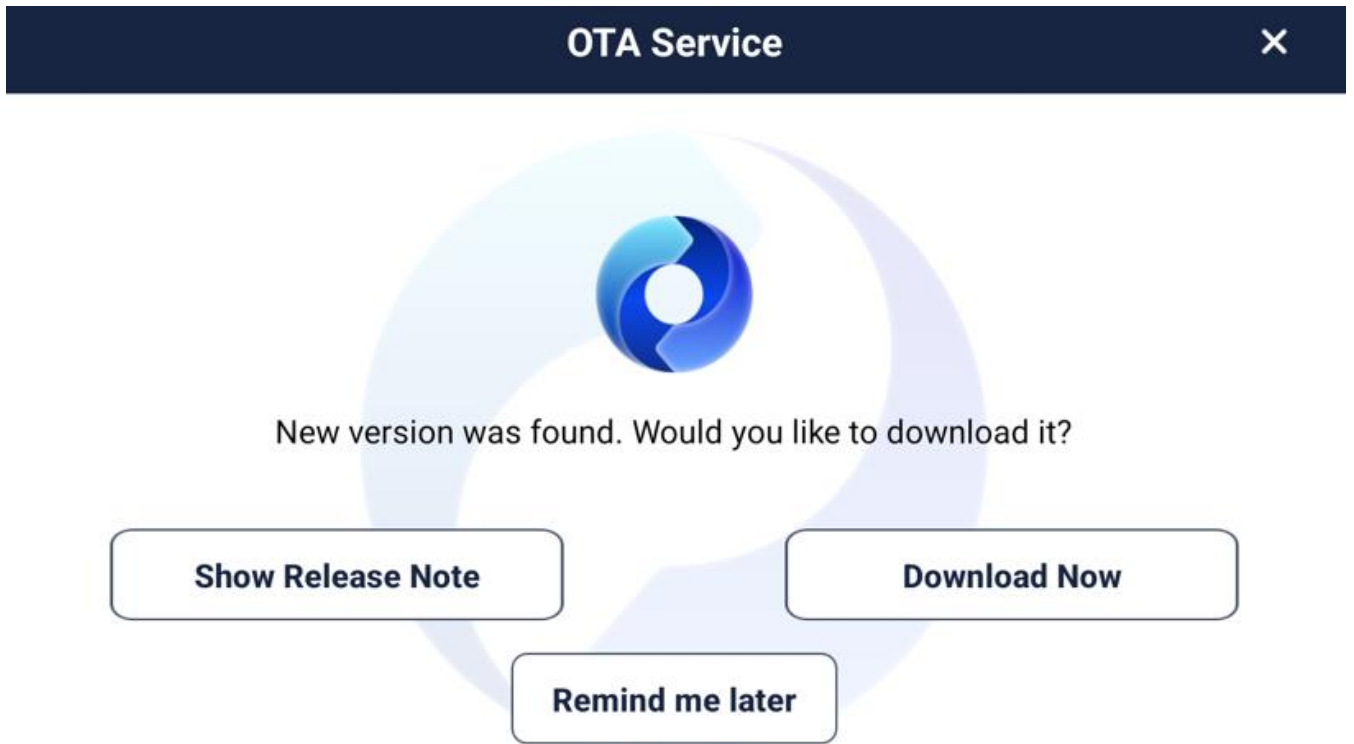


### 8.2.2 Managing uploaded files

- Insert Whiteboard : Immediately float the file on the whiteboard.
- Copy: Copy the uploaded file.
- Save : Save the uploaded file. (It will be saved in the File manager -> Fast transfer folder).
- Delete: Delete the uploaded file.
- Cancel: Cancels the file selection.

## 8.3 OTA Service

- Firmware upgrades can be done by the user.

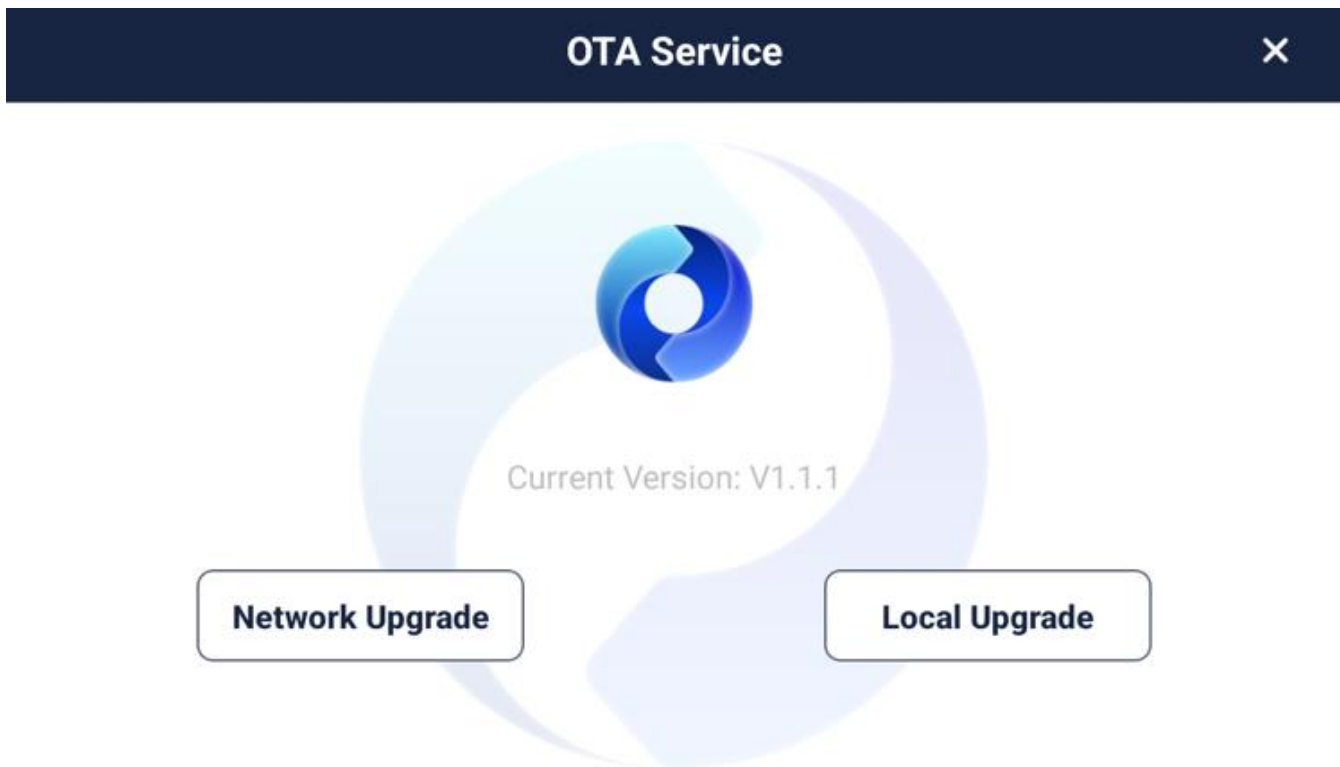


### 8.3.1 Upgrade notifications

- When the upper version of the firmware is released, the upgrade progress notification will be displayed automatically.
- Show release note : Shows the modification history of the firmware.
- Download now : Upgrade the firmware.
- Remind me later : Upgrades can be postponed, and users can proceed with upgrades manually at a later time.



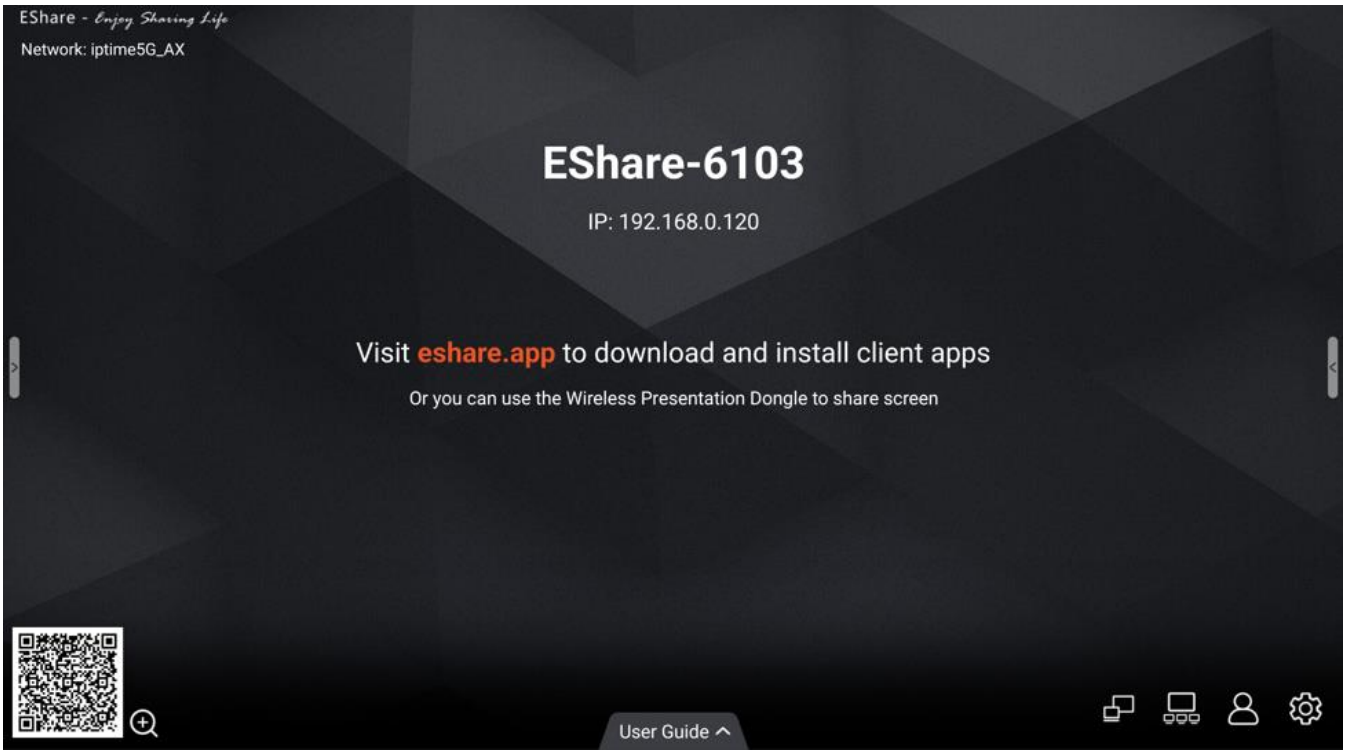
## 8.3 OTA Service



### 8.3.2 Manual upgrade

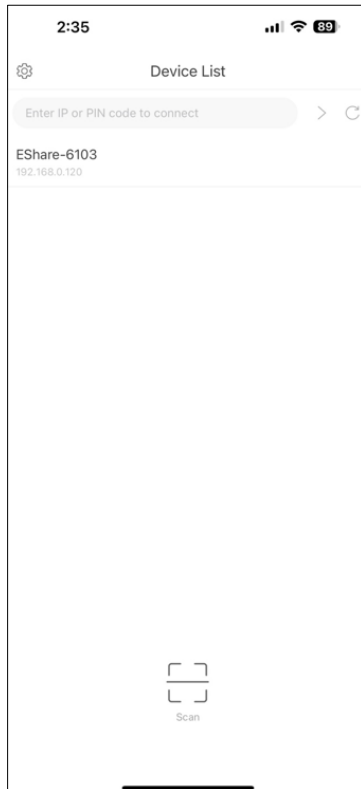
- Network upgrade : Proceed with the firmware upgrade while connected to the network.
- Local upgrade : Upgrade directly to the USB firmware file instead of the OTA service.

## 8.4 E-Share



### ❖ E-Share

- Share the screen and voice through mirroring with external devices with the E-Share app.

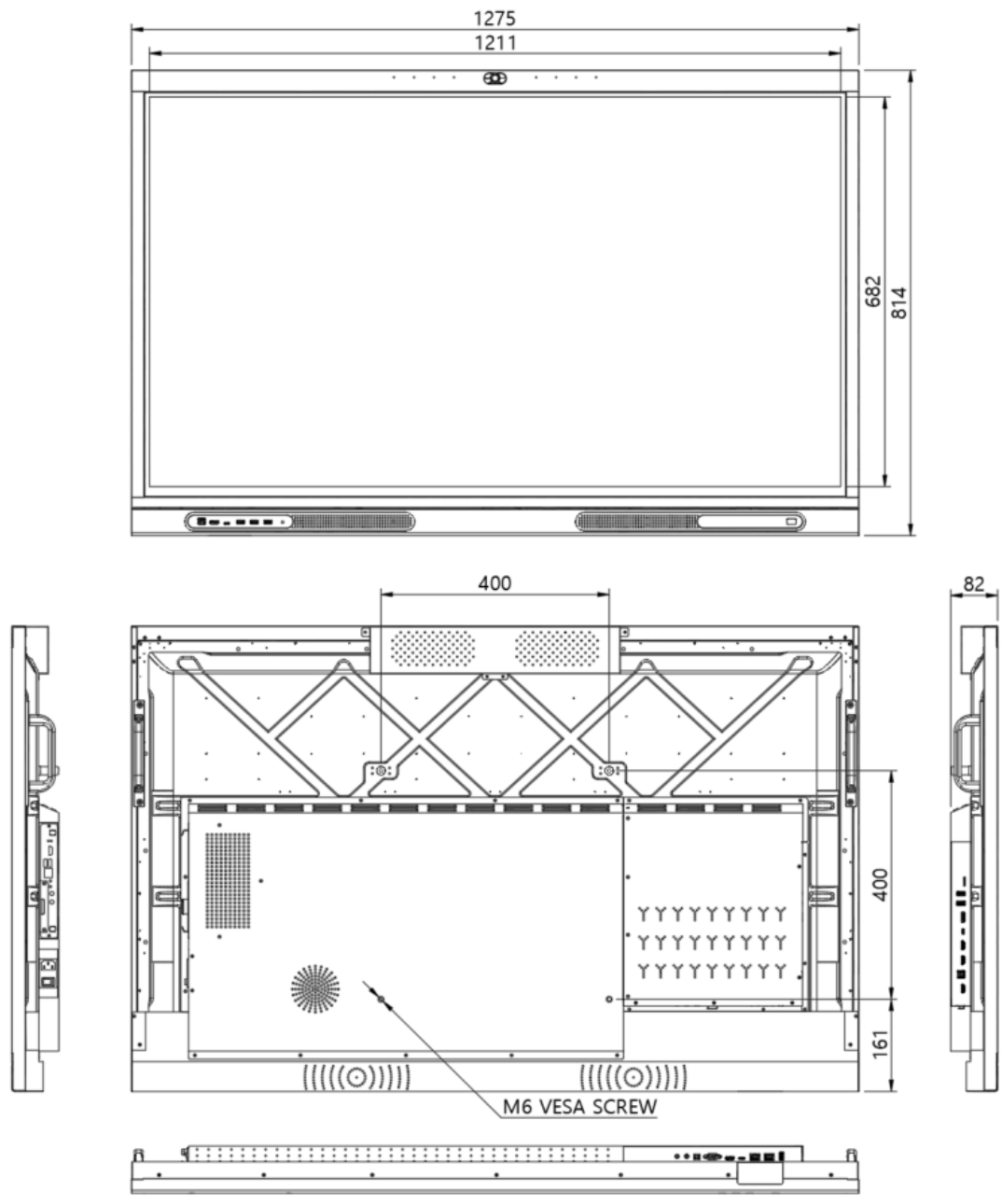


### 8.4.1 How to connect

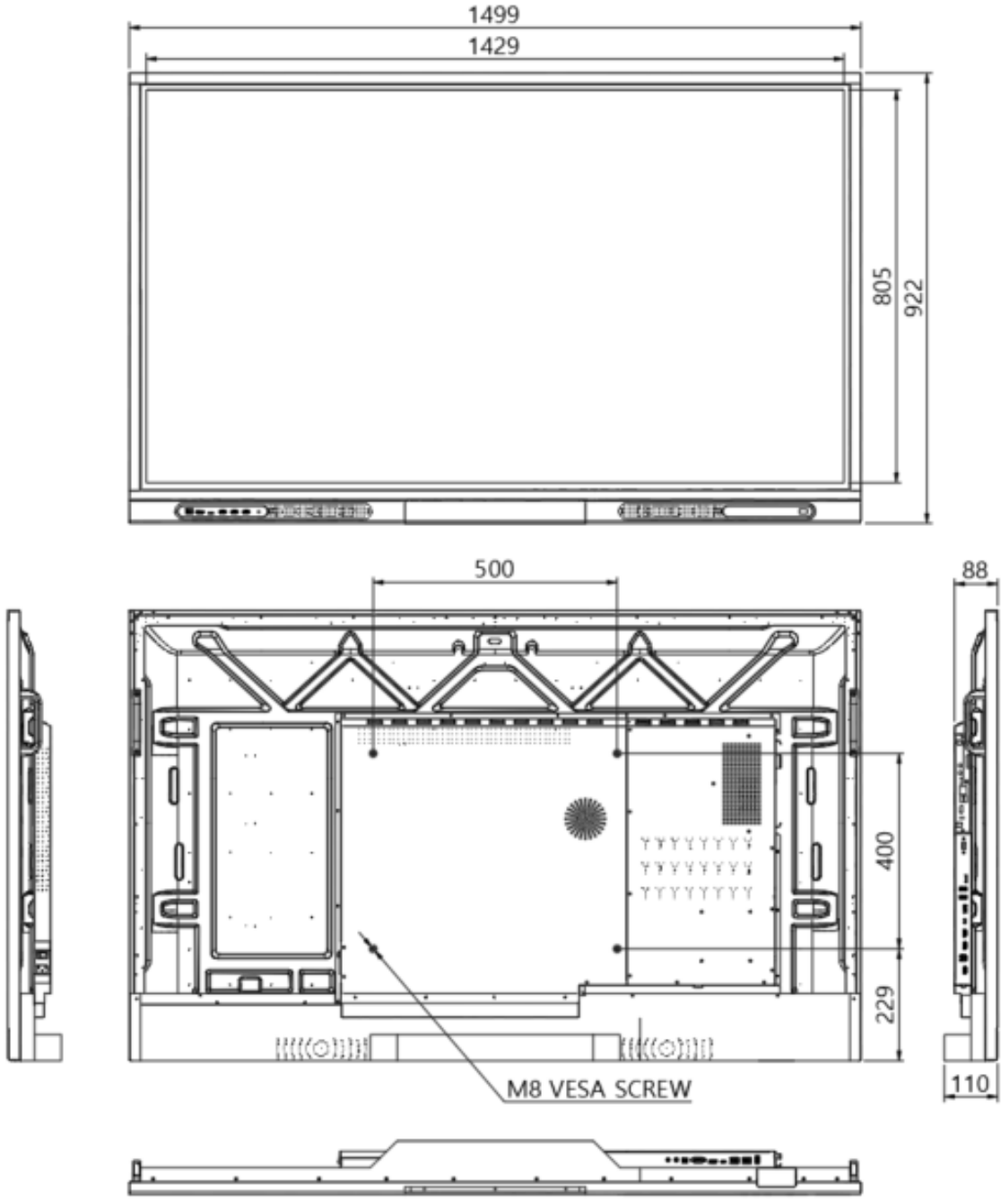
- Connect this device and external device with the same network.  
(External devices also have to run E-Share app)
- Share screen : Display the screen of the external device on this device.
- TV Mirror : Display the screen of this device on an external device.

# 9. Product dimension

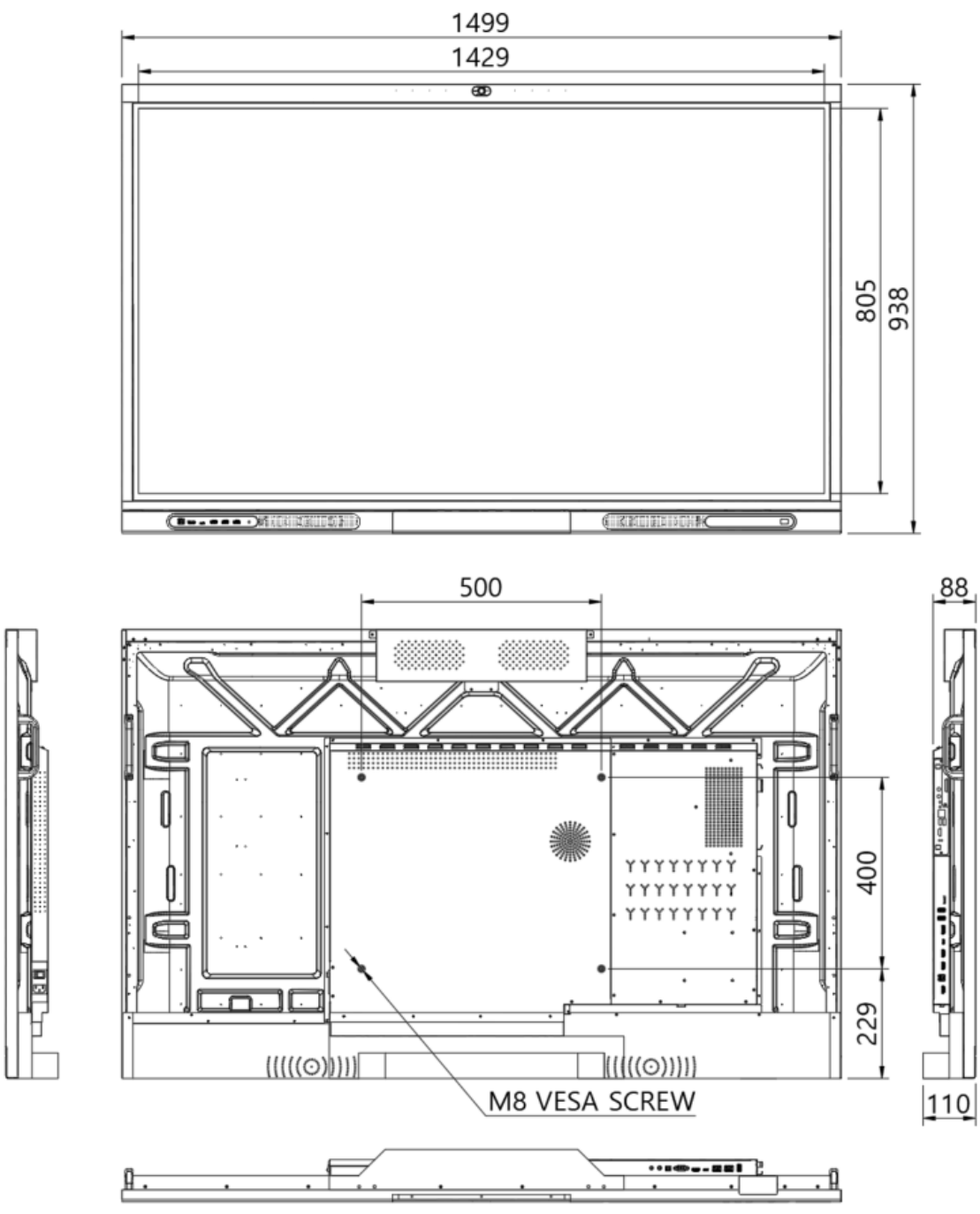
## 9.1 55inch (Built-in camera specifications)



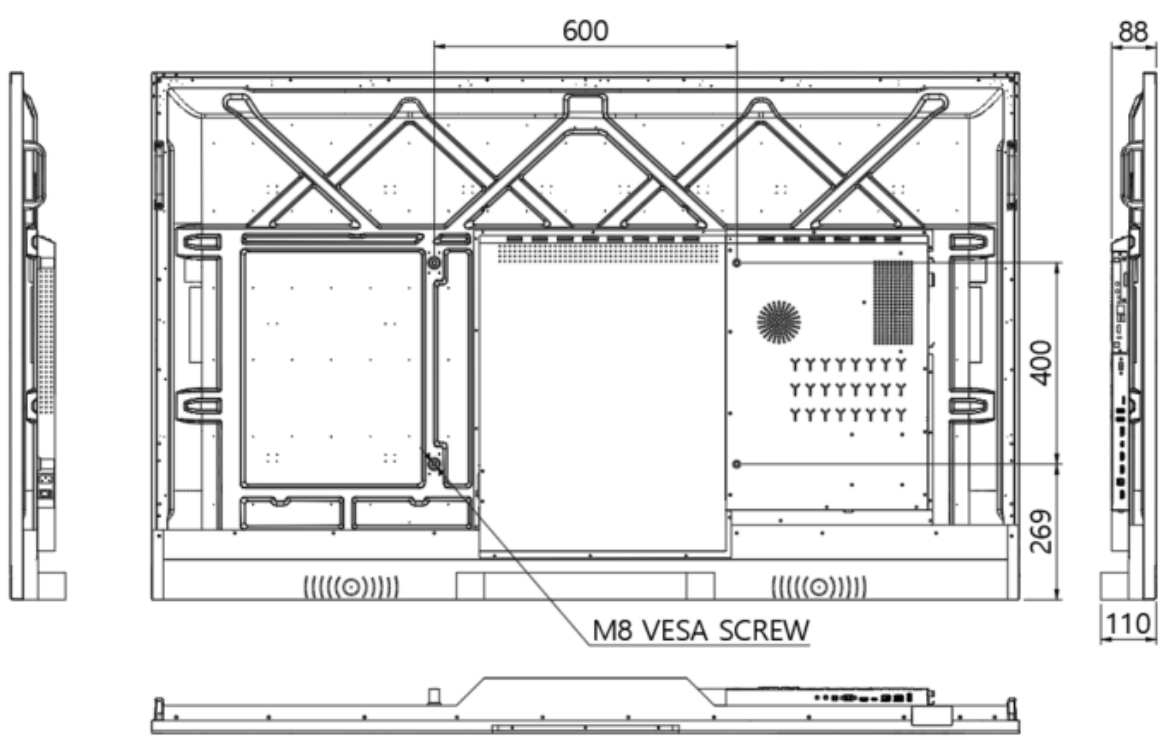
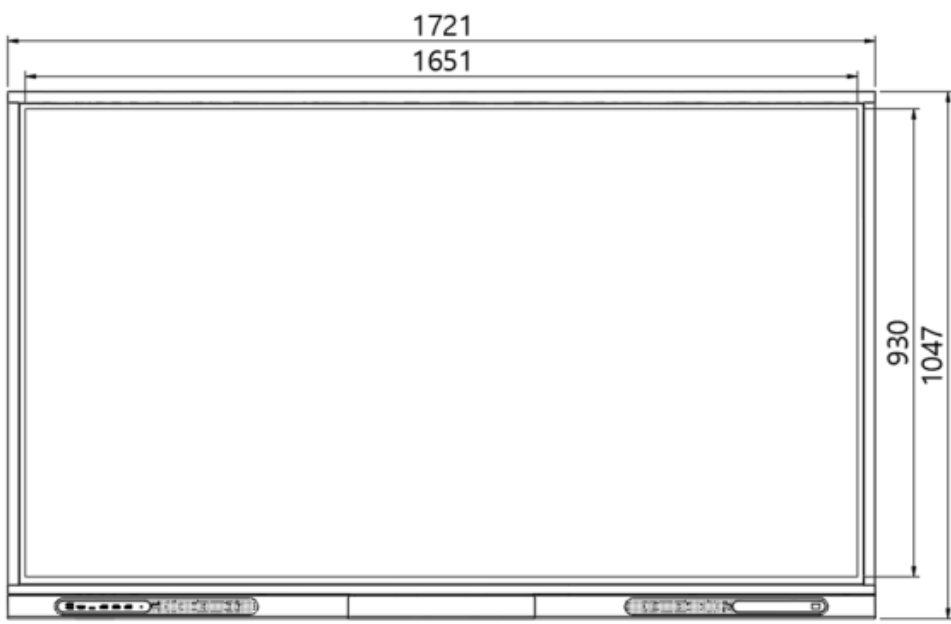
9.2.1 65inch



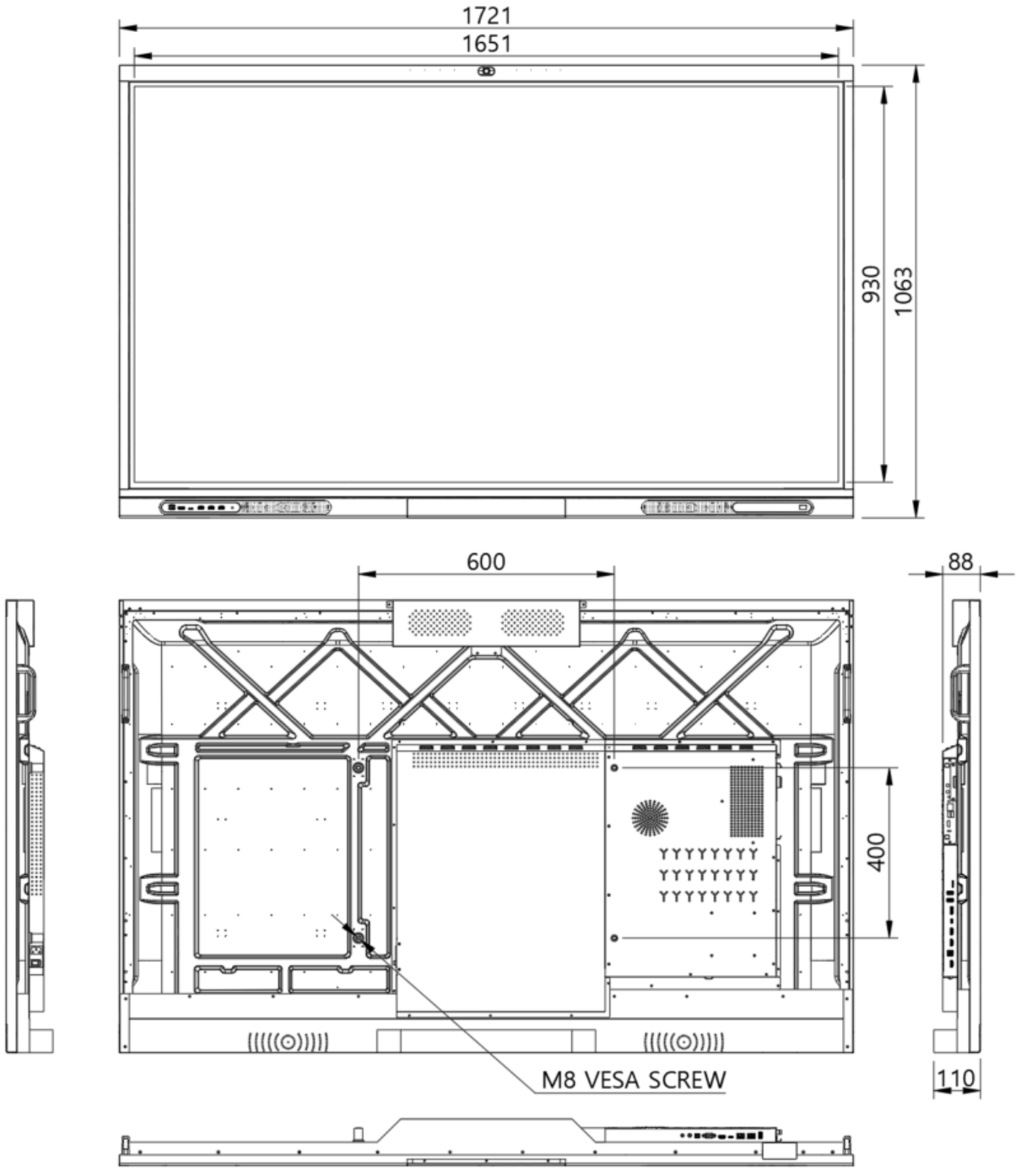
9.2.2 65inch (Built-in camera specifications)



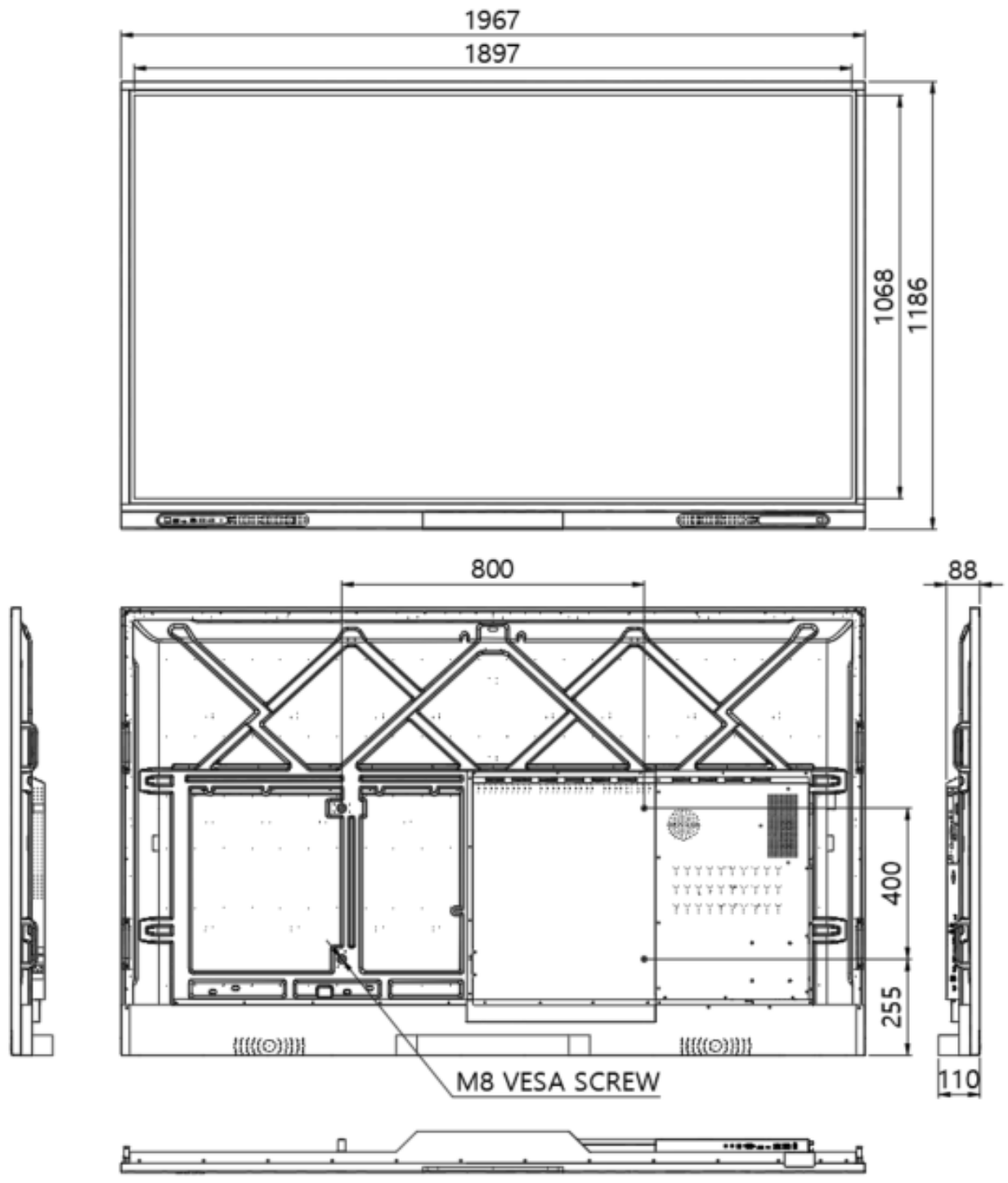
9.3.1 75inch



9.3.2 75inch (Built-in camera specifications)

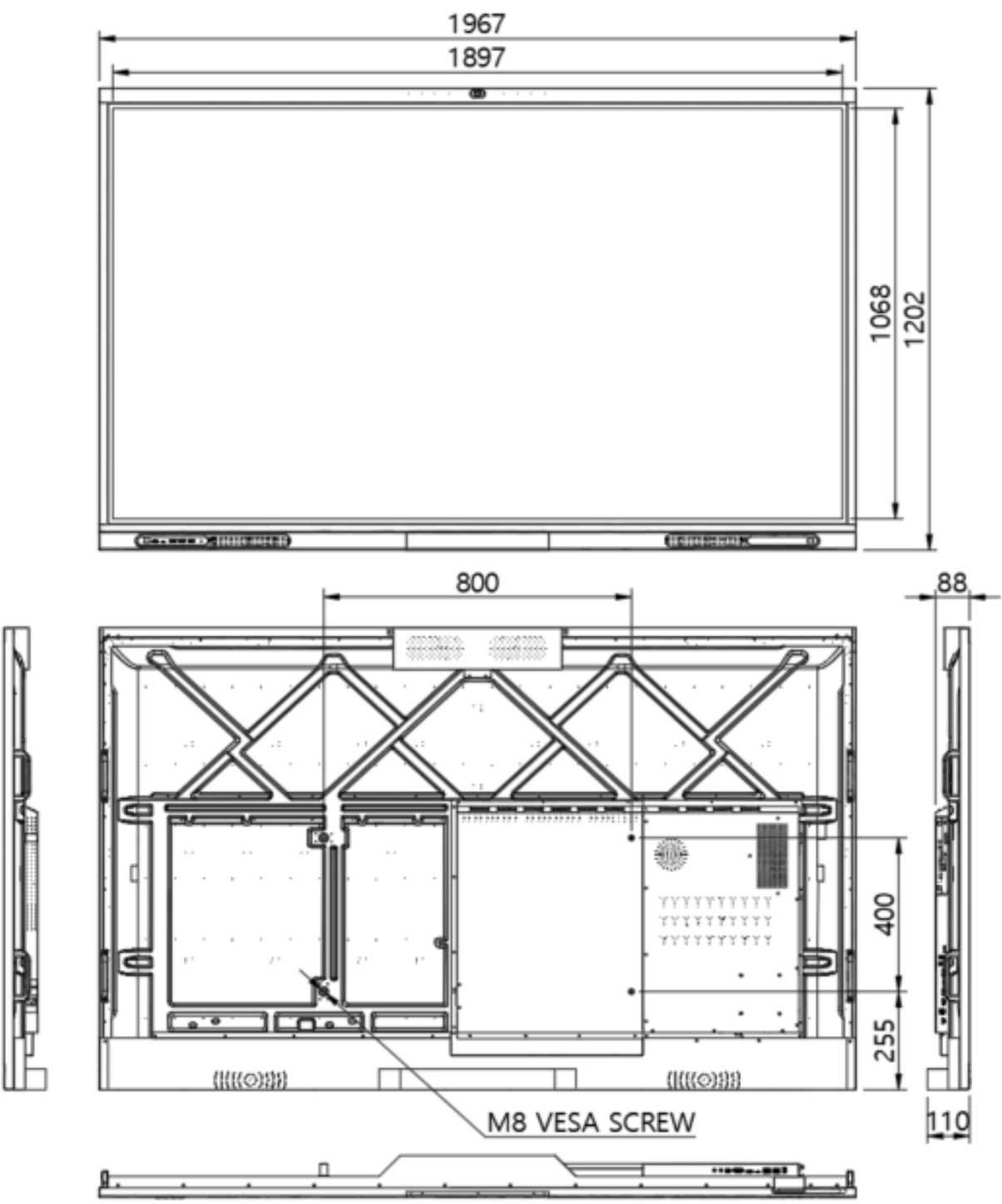


9.4.1 86inch

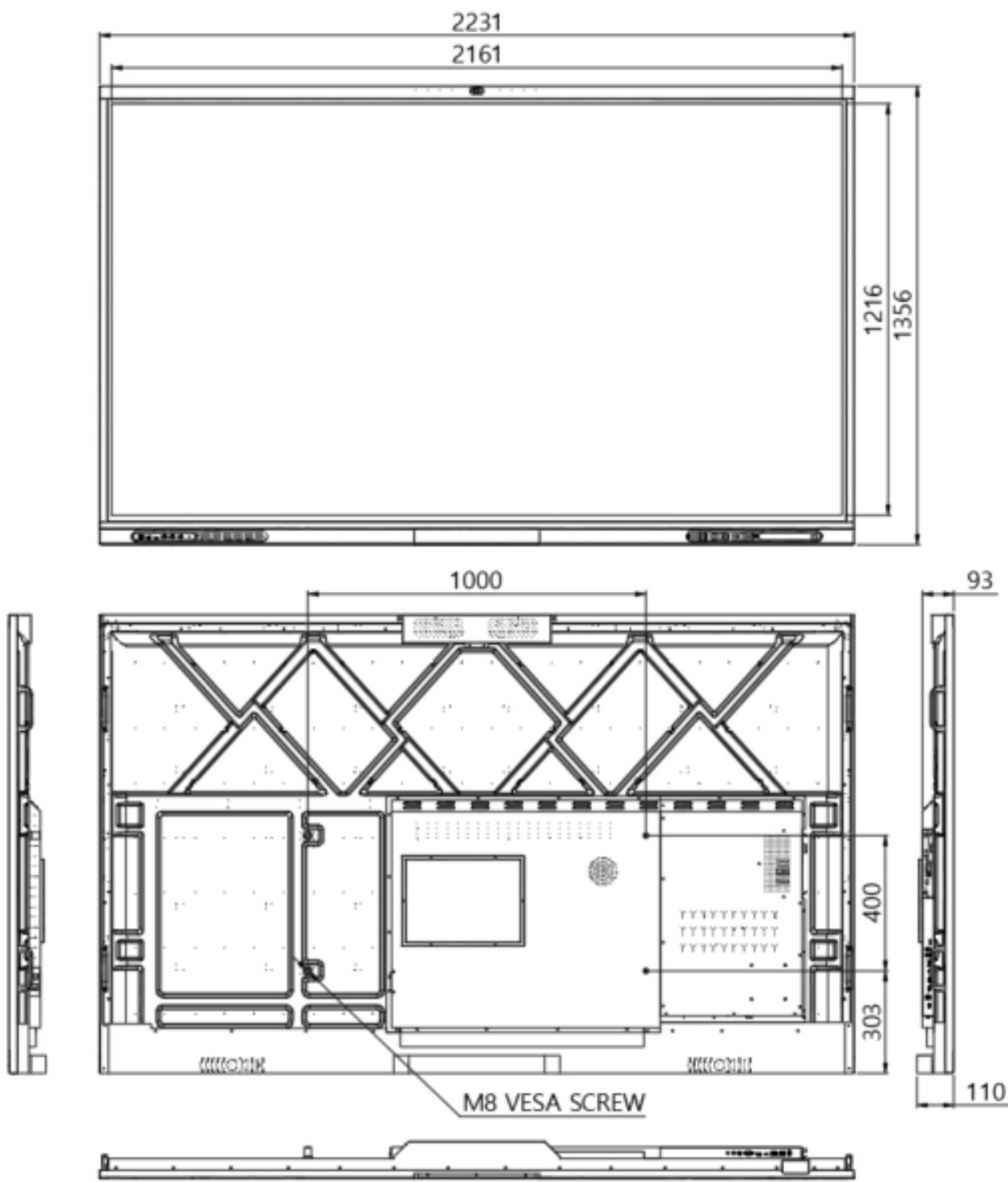




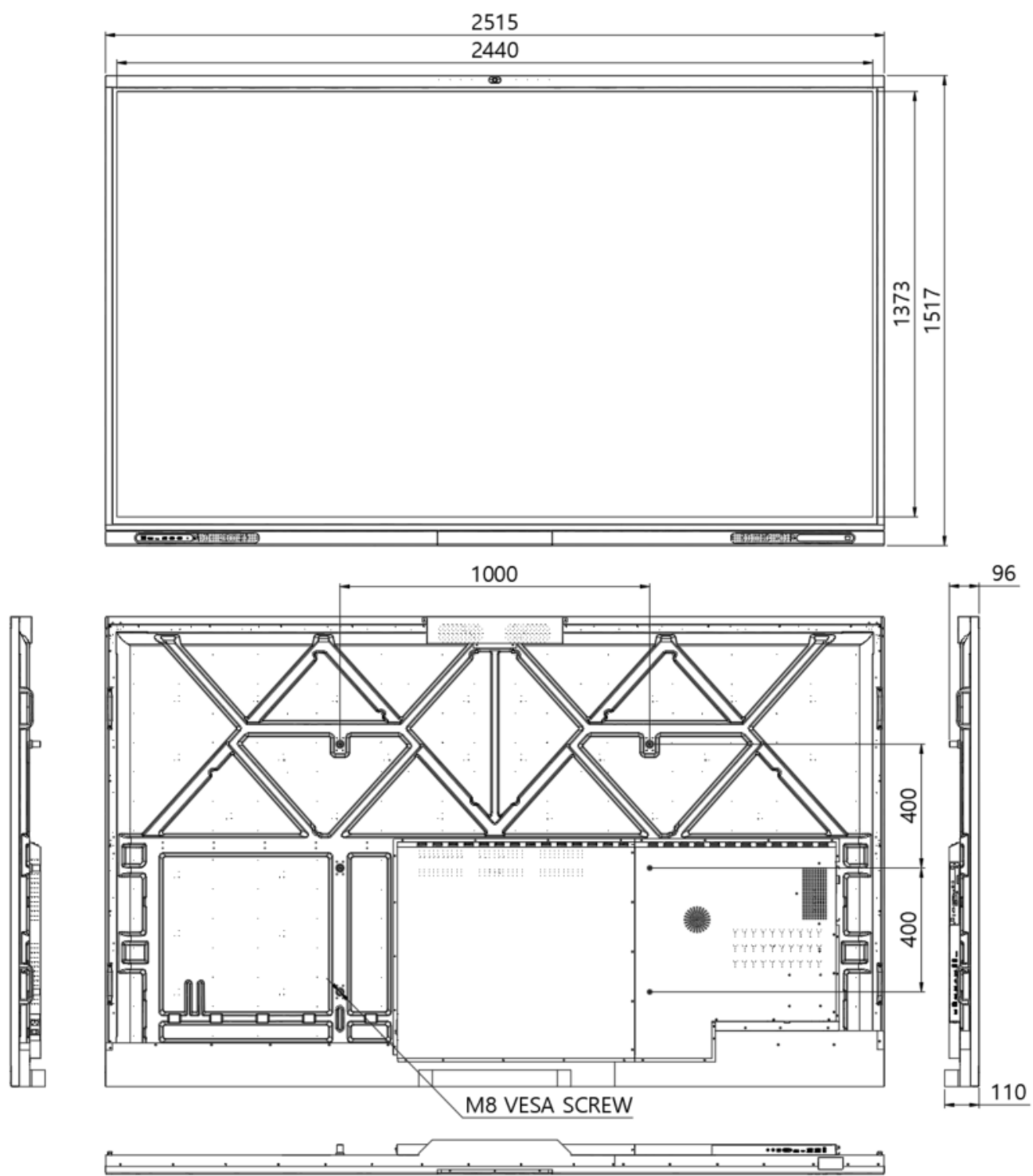
9.4.2 86inch (Built-in camera specifications)



9.5 98inch (Built-in camera specifications)



9.6 110inch (Built-in camera specifications)



# 10. Product specification

## 10.1 55inch (Built-in camera specifications)

Panel	
Display	55 inch
Resolution	3840×2160
Brightness	410cd/m <sup>2</sup> (Typ.)
Contrast	1300:1 (Typ.)
Glass	3T / Etching + Anti Bacterial / Optical Bonding

Touch System	
Touch Technology	IR (USIR-Ultra Slim Infrared Ray)
Touch Point	Max 40 Point (Windows, Android)
	1 Point (Mac, Linux, Chrome OS Single Point Support)
Response Speed	<3.3 ms (1 Point By Point)
Accuracy	± 0.5 mm
Operating System	Windows 10 more/ Android / Mac / Linux / Chrome

Android System	
Android Version	Android 13.0
CPU	(A76 x 4) + (A55 x Quad-4)
RAM	8GB or 16GB
ROM	128GB or 256GB

Built-in Camera And Microphone	
Image Sensor	CMOS, 1/2.5 inch
Resolution	3840x2160@30fps
lens Viewing Angle	120°
Array Microphone	8 Channels, Echo Cancellation, Noise Reduction, Voice Location Tracking
Camera Function	WDR, Auto Framing, Noise Reduction

I/O Port	
Front (Input)	USB-B(Touch) x 1, HDMI 2.0 x 1, USB-C(DP Alt Mode) x 1, USB-A(3.0) x 3
Rear (Input & Output)	USB-A(2.0) x 1, USB-A(3.0) x 2, USB-B(Touch) x 1, USB-C(DP Alt Mode) x 1
	HDMI 1.4B x 1, HDMI 2.0 x 2, DP x 1, MIC x 1, SD Card x 1
	HDMI Out x 1, Line Out x 1, S/PDIF x 1, USB-C(DP Alt Mode) Out x 1
Communication Port	RS232 x 1, LAN x 2, NFC x 1

Power	
Rated Voltage	AC 100-240V 50/60 Hz
Maximum Power	≤ 200W (TBD.)
Standby Power	≤ 0.5W

Other	
Speaker Output	2.1 Channel - 16W × 2, 20W x 1 (Sub Woofer Speaker)
Dimension (WxHxD)	1275(W) x 814(H) x 82(D) mm
VESA Mount	400 x 400 (mm), M6 Screw
Net Weight	37 Kg (TBD.)
Gross Weight	44Kg (TBD.)

## 10.2.1 65inch

Panel	
Display	65 inch
Resolution	3840×2160
Brightness	410cd/m <sup>2</sup> (Typ.)
Contrast	1100:1 (Typ.)
Glass	3T / Etching + Anti Bacterial / Optical Bonding

Touch System	
Touch Technology	IR (USIR-Ultra Slim Infrared Ray)
Touch Point	Max 40 Point (Windows, Android)
	1 Point (Mac, Linux, Chrome OS Single Point Support)
Response Speed	<3.3 ms (1 Point By Point)
Accuracy	± 0.5 mm
Operating System	Windows 10 more/ Android / Mac / Linux / Chrome

Android System	
Android Version	Android 13.0
CPU	(A76 x 4) + (A55 x Quad-4)
RAM	8GB or 16GB
ROM	128GB or 256GB

I/O Port	
Front (Input)	USB-B(Touch) x 1, HDMI 2.0 x 1, USB-C(DP Alt Mode) x 1, USB-A(3.0) x 3
Rear (Input & Output)	USB-A(2.0) x 1, USB-A(3.0) x 2, USB-B(Touch) x 1, USB-C(DP Alt Mode) x 1
	HDMI 1.4B x 1, HDMI 2.0 x 2, DP x 1, MIC x 1, SD Card x 1
Communication Port	HDMI Out x 1, Line Out x 1, S/PDIF x 1, USB-C(DP Alt Mode) Out x 1
	RS232 x 1, LAN x 2, NFC x 1

Power	
Rated Voltage	AC 100-240V 50/60 Hz
Maximum Power	≤ 280W
Standby Power	≤ 0.5W

Other	
Speaker Output	2.1 Channel - 16W × 2, 20W x 1 (Sub Woofer Speaker)
Dimension (WxHxD)	1499(W) x 938(H) x 110(D) mm
VESA Mount	500 x 400 (mm), M8 Screw
Net Weight	40 Kg
Gross Weight	47 Kg

## 10.2.2 65inch (Built-in camera specifications)

Panel	
Display	65 inch
Resolution	3840×2160
Brightness	410cd/m <sup>2</sup> (Typ.)
Contrast	1100:1 (Typ.)
Glass	3T / Etching + Anti Bacterial / Optical Bonding

Touch System	
Touch Technology	IR (USIR-Ultra Slim Infrared Ray)
Touch Point	Max 40 Point (Windows, Android)
	1 Point (Mac, Linux, Chrome OS Single Point Support)
Response Speed	<3.3 ms (1 Point By Point)
Accuracy	± 0.5 mm
Operating System	Windows 10 more/ Android / Mac / Linux / Chrome

Android System	
Android Version	Android 13.0
CPU	(A76 x 4) + (A55 x Quad-4)
RAM	8GB or 16GB
ROM	128GB or 256GB

Built-in Camera And Microphone	
Image Sensor	CMOS, 1/2.5 inch
Resolution	3840x2160@30fps
lens Viewing Angle	120°
Array Microphone	8 Channels, Echo Cancellation, Noise Reduction, Voice Location Tracking
Camera Function	WDR, Auto Framing, Noise Reduction

I/O Port	
Front (Input)	USB-B(Touch) x 1, HDMI 2.0 x 1, USB-C(DP Alt Mode) x 1, USB-A(3.0) x 3
Rear (Input & Output)	USB-A(2.0) x 1, USB-A(3.0) x 2, USB-B(Touch) x 1, USB-C(DP Alt Mode) x 1
	HDMI 1.4B x 1, HDMI 2.0 x 2, DP x 1, MIC x 1, SD Card x 1
	HDMI Out x 1, Line Out x 1, S/PDIF x 1, USB-C(DP Alt Mode) Out x 1
Communication Port	RS232 x 1, LAN x 2, NFC x 1

Power	
Rated Voltage	AC 100-240V 50/60 Hz
Maximum Power	≤ 280W
Standby Power	≤ 0.5W

Other	
Speaker Output	2.1 Channel - 16W × 2, 20W x 1 (Sub Woofer Speaker)
Dimension (WxHxD)	1499(W) x 938(H) x 110(D) mm
VESA Mount	500 x 400 (mm), M8 Screw
Net Weight	40 Kg
Gross Weight	47 Kg

## 10.3.1 75inch

Panel	
Display	75 inch
Resolution	3840×2160
Brightness	410cd/m <sup>2</sup> (Typ.)
Contrast	1100:1 (Typ.)
Glass	3T / Etching + Anti Bacterial / Optical Bonding

Touch System	
Touch Technology	IR (USIR-Ultra Slim Infrared Ray)
Touch Point	Max 40 Point (Windows, Android)
	1 Point (Mac, Linux, Chrome OS Single Point Support)
Response Speed	<3.3 ms (1 Point By Point)
Accuracy	± 0.5 mm
Operating System	Windows 10 more/ Android / Mac / Linux / Chrome

Android System	
Android Version	Android 13.0
CPU	(A76 x 4) + (A55 x Quad-4)
RAM	8GB or 16GB
ROM	128GB or 256GB

I/O Port	
Front (Input)	USB-B(Touch) x 1, HDMI 2.0 x 1, USB-C(DP Alt Mode) x 1, USB-A(3.0) x 3
Rear (Input & Output)	USB-A(2.0) x 1, USB-A(3.0) x 2, USB-B(Touch) x 1, USB-C(DP Alt Mode) x 1
	HDMI 1.4B x 1, HDMI 2.0 x 2, DP x 1, MIC x 1, SD Card x 1
Communication Port	HDMI Out x 1, Line Out x 1, S/PDIF x 1, USB-C(DP Alt Mode) Out x 1
	RS232 x 1, LAN x 2, NFC x 1

Power	
Rated Voltage	AC 100-240V 50/60 Hz
Maximum Power	≤ 330W
Standby Power	≤ 0.5W

Other	
Speaker Output	2.1 Channel - 16W × 2, 20W x 1 (Sub Woofer Speaker)
Dimension (WxHxD)	1721(W) x 1063(H) x 110(D) mm
VESA Mount	600 x 400 (mm), M8 Screw
Net Weight	54 Kg
Gross Weight	62 Kg

## 10.3.2 75inch (Built-in camera specifications)

Panel	
Display	75 inch
Resolution	3840×2160
Brightness	410cd/m <sup>2</sup> (Typ.)
Contrast	1100:1 (Typ.)
Glass	3T / Etching + Anti Bacterial / Optical Bonding

Touch System	
Touch Technology	IR (USIR-Ultra Slim Infrared Ray)
Touch Point	Max 40 Point (Windows, Android)
	1 Point (Mac, Linux, Chrome OS Single Point Support)
Response Speed	<3.3 ms (1 Point By Point)
Accuracy	± 0.5 mm
Operating System	Windows 10 more/ Android / Mac / Linux / Chrome

Android System	
Android Version	Android 13.0
CPU	(A76 x 4) + (A55 x Quad-4)
RAM	8GB or 16GB
ROM	128GB or 256GB

Built-in Camera And Microphone	
Image Sensor	CMOS, 1/2.5 inch
Resolution	3840x2160@30fps
lens Viewing Angle	120°
Array Microphone	8 Channels, Echo Cancellation, Noise Reduction, Voice Location Tracking
Camera Function	WDR, Auto Framing, Noise Reduction

I/O Port	
Front (Input)	USB-B(Touch) x 1, HDMI 2.0 x 1, USB-C(DP Alt Mode) x 1, USB-A(3.0) x 3
Rear (Input & Output)	USB-A(2.0) x 1, USB-A(3.0) x 2, USB-B(Touch) x 1, USB-C(DP Alt Mode) x 1
	HDMI 1.4B x 1, HDMI 2.0 x 2, DP x 1, MIC x 1, SD Card x 1
	HDMI Out x 1, Line Out x 1, S/PDIF x 1, USB-C(DP Alt Mode) Out x 1
Communication Port	RS232 x 1, LAN x 2, NFC x 1

Power	
Rated Voltage	AC 100-240V 50/60 Hz
Maximum Power	≤ 330W
Standby Power	≤ 0.5W

Other	
Speaker Output	2.1 Channel - 16W × 2, 20W x 1 (Sub Woofer Speaker)
Dimension (WxHxD)	1721(W) x 1063(H) x 110(D) mm
VESA Mount	600 x 400 (mm), M8 Screw
Net Weight	54 Kg
Gross Weight	62 Kg



## 10.4.1 86inch

Panel	
Display	86 inch
Resolution	3840×2160
Brightness	410cd/m <sup>2</sup> (Typ.)
Contrast	1200:1 (Typ.)
Glass	3T / Etching + Anti Bacterial / Optical Bonding

Touch System	
Touch Technology	IR (USIR-Ultra Slim Infrared Ray)
Touch Point	Max 40 Point (Windows, Android)
	1 Point (Mac, Linux, Chrome OS Single Point Support)
Response Speed	<3.3 ms (1 Point By Point)
Accuracy	± 0.5 mm
Operating System	Windows 10 more/ Android / Mac / Linux / Chrome

Android System	
Android Version	Android 13.0
CPU	(A76 x 4) + (A55 x Quad-4)
RAM	8GB or 16GB
ROM	128GB or 256GB

I/O Port	
Front (Input)	USB-B(Touch) x 1, HDMI 2.0 x 1, USB-C(DP Alt Mode) x 1, USB-A(3.0) x 3
Rear (Input & Output)	USB-A(2.0) x 1, USB-A(3.0) x 2, USB-B(Touch) x 1, USB-C(DP Alt Mode) x 1
	HDMI 1.4B x 1, HDMI 2.0 x 2, DP x 1, MIC x 1, SD Card x 1
Communication Port	HDMI Out x 1, Line Out x 1, S/PDIF x 1, USB-C(DP Alt Mode) Out x 1
	RS232 x 1, LAN x 2, NFC x 1

Power	
Rated Voltage	AC 100-240V 50/60 Hz
Maximum Power	≤ 440W
Standby Power	≤ 0.5W

Other	
Speaker Output	2.1 Channel - 16W × 2, 20W x 1 (Sub Woofer Speaker)
Dimension (WxHxD)	1967(W) x 1202(H) x 110(D) mm
VESA Mount	800 x 400 (mm), M8 Screw
Net Weight	67 Kg
Gross Weight	77 Kg

## 10.4.2 86inch (Built-in camera specifications)

Panel	
Display	86 inch
Resolution	3840×2160
Brightness	410cd/m <sup>2</sup> (Typ.)
Contrast	1200:1 (Typ.)
Glass	3T / Etching + Anti Bacterial / Optical Bonding

Touch System	
Touch Technology	IR (USIR-Ultra Slim Infrared Ray)
Touch Point	Max 40 Point (Windows, Android)
	1 Point (Mac, Linux, Chrome OS Single Point Support)
Response Speed	<3.3 ms (1 Point By Point)
Accuracy	± 0.5 mm
Operating System	Windows 10 more/ Android / Mac / Linux / Chrome

Android System	
Android Version	Android 13.0
CPU	(A76 x 4) + (A55 x Quad-4)
RAM	8GB or 16GB
ROM	128GB or 256GB

Built-in Camera And Microphone	
Image Sensor	CMOS, 1/2.5 inch
Resolution	3840x2160@30fps
lens Viewing Angle	120°
Array Microphone	8 Channels, Echo Cancellation, Noise Reduction, Voice Location Tracking
Camera Function	WDR, Auto Framing, Noise Reduction

I/O Port	
Front (Input)	USB-B(Touch) x 1, HDMI 2.0 x 1, USB-C(DP Alt Mode) x 1, USB-A(3.0) x 3
Rear (Input & Output)	USB-A(2.0) x 1, USB-A(3.0) x 2, USB-B(Touch) x 1, USB-C(DP Alt Mode) x 1
	HDMI 1.4B x 1, HDMI 2.0 x 2, DP x 1, MIC x 1, SD Card x 1
	HDMI Out x 1, Line Out x 1, S/PDIF x 1, USB-C(DP Alt Mode) Out x 1
Communication Port	RS232 x 1, LAN x 2, NFC x 1

Power	
Rated Voltage	AC 100-240V 50/60 Hz
Maximum Power	≤ 440W
Standby Power	≤ 0.5W

Other	
Speaker Output	2.1 Channel - 16W × 2, 20W x 1 (Sub Woofer Speaker)
Dimension (WxHxD)	1967(W) x 1202(H) x 110(D) mm
VESA Mount	800 x 400 (mm), M8 Screw
Net Weight	67 Kg
Gross Weight	77 Kg

## 10.5 98inch (Built-in camera specifications)

Panel	
Display	98 inch
Resolution	3840×2160
Brightness	410cd/m <sup>2</sup> (Typ.)
Contrast	1200:1 (Typ.)
Glass	3T / Etching + Anti Bacterial / Optical Bonding

Touch System	
Touch Technology	IR (USIR-Ultra Slim Infrared Ray)
Touch Point	Max 40 Point (Windows, Android)
	1 Point (Mac, Linux, Chrome OS Single Point Support)
Response Speed	<3.3 ms (1 Point By Point)
Accuracy	± 0.5 mm
Operating System	Windows 10 more/ Android / Mac / Linux / Chrome

Android System	
Android Version	Android 13.0
CPU	(A76 x 4) + (A55 x Quad-4)
RAM	8GB or 16GB
ROM	128GB or 256GB

Built-in Camera And Microphone	
Image Sensor	CMOS, 1/2.5 inch
Resolution	3840x2160@30fps
lens Viewing Angle	120°
Array Microphone	8 Channels, Echo Cancellation, Noise Reduction, Voice Location Tracking
Camera Function	WDR, Auto Framing, Noise Reduction

I/O Port	
Front (Input)	USB-B(Touch) x 1, HDMI 2.0 x 1, USB-C(DP Alt Mode) x 1, USB-A(3.0) x 3
Rear (Input & Output)	USB-A(2.0) x 1, USB-A(3.0) x 2, USB-B(Touch) x 1, USB-C(DP Alt Mode) x 1
	HDMI 1.4B x 1, HDMI 2.0 x 2, DP x 1, MIC x 1, SD Card x 1
	HDMI Out x 1, Line Out x 1, S/PDIF x 1, USB-C(DP Alt Mode) Out x 1
Communication Port	RS232 x 1, LAN x 2, NFC x 1

Power	
Rated Voltage	AC 100-240V 50/60 Hz
Maximum Power	≤ 550W (TBD.)
Standby Power	≤ 0.5W

Other	
Speaker Output	2.1 Channel - 16W × 2, 20W x 1 (Sub Woofer Speaker)
Dimension (WxHxD)	2231(W) x 1356(H) x 110(D) mm
VESA Mount	1000 x 400 (mm), M8 Screw
Net Weight	85 Kg (TBD.)
Gross Weight	98 Kg (TBD.)

## 10.6 110inch (Built-in camera specifications)

Panel	
Display	110 inch
Resolution	3840×2160
Brightness	410cd/m <sup>2</sup> (Typ.)
Contrast	1200:1 (Typ.)
Glass	3T / Etching + Anti Bacterial / Optical Bonding

Touch System	
Touch Technology	IR (USIR-Ultra Slim Infrared Ray)
Touch Point	Max 40 Point (Windows, Android)
	1 Point (Mac, Linux, Chrome OS Single Point Support)
Response Speed	<3.3 ms (1 Point By Point)
Accuracy	± 0.5 mm
Operating System	Windows 10 more/ Android / Mac / Linux / Chrome

Android System	
Android Version	Android 13.0
CPU	(A76 x 4) + (A55 x Quad-4)
RAM	8GB or 16GB
ROM	128GB or 256GB

Built-in Camera And Microphone	
Image Sensor	CMOS, 1/2.5 inch
Resolution	3840x2160@30fps
lens Viewing Angle	120°
Array Microphone	8 Channels, Echo Cancellation, Noise Reduction, Voice Location Tracking
Camera Function	WDR, Auto Framing, Noise Reduction

I/O Port	
Front (Input)	USB-B(Touch) x 1, HDMI 2.0 x 1, USB-C(DP Alt Mode) x 1, USB-A(3.0) x 3
Rear (Input & Output)	USB-A(2.0) x 1, USB-A(3.0) x 2, USB-B(Touch) x 1, USB-C(DP Alt Mode) x 1
	HDMI 1.4B x 1, HDMI 2.0 x 2, DP x 1, MIC x 1, SD Card x 1
	HDMI Out x 1, Line Out x 1, S/PDIF x 1, USB-C(DP Alt Mode) Out x 1
Communication Port	RS232 x 1, LAN x 2, NFC x 1

Power	
Rated Voltage	AC 100-240V 50/60 Hz
Maximum Power	≤ 600W (TBD.)
Standby Power	≤ 0.5W

Other	
Speaker Output	2.1 Channel - 16W × 2, 20W x 1 (Sub Woofer Speaker)
Dimension (WxHxD)	2515(W) x 1517(H) x 110(D) mm
VESA Mount	1000 x 800 (mm), M8 Screw
Net Weight	120 Kg (TBD.)
Gross Weight	135 Kg (TBD.)

# 11. Troubleshooting

## 11.1 Product self-diagnosis

- You can check if the product is working properly using the self-diagnosis function.
  - If a blank screen is displayed and the Power LED blinks even if the product and the PC are properly connected, perform the self-diagnosis function according to the procedures below.
- ① Turn the product and the PC off.
  - ② Remove the cable from the product.
  - ③ Turn the product on.
  - ④ If the product is working properly, the <Check Signal Cable> message appears.  
In this case, if a blank screen is displayed again, make sure that there is no problem with the PC and the connector.

## 11.2 Before requesting service

- Please check the following before requesting After-Sales service.  
If the problem continues, please contact your nearest Service Center.

### 11.2.1 Problems related to screen

- ① Screen is blank and power indicator is off.
  - Ensure that the power cord is firmly connected and the monitor is on.
- ② <Video media error format unsupported> Message.
  - Check the maximum resolution and the frequency of the video adapter.
  - Compare these values with the data in the Standard Signal Mode Table.
- ③ Picture rolls vertically.
  - Check if the signal cable is securely connected. Connect it again securely.
- ④ Image is not clear. Picture is blurred.
  - Run frequency <Coarse> and <Fine> tuning.
  - Turn on again after removing all accessories (video extension cable, etc.)
  - Set resolution and frequency to the recommended ranges.
- ⑤ The image is too light or too dark.
  - Adjust the <Brightness> and <Contrast>.

### 11.2.2 Problems related to audio

- ① No sound
  - Ensure that the audio cable is firmly connected to both the audio-in port on your monitor and the audio-out port on your sound card.
- ② The sound level is too low.
  - Check the volume level. If the volume is still too low after turning the control to its maximum. Check the volume control on the computer sound card or software program.

### 11.2.3 Problems related to remote controller

- ① The remote controller buttons do not respond.
  - Check the battery polarities (+/-).
  - Check if the batteries have been exhausted.
  - Check if the power is blackout.
  - Check if the power cord is securely connected.
  - Check if a special fluorescent or neon lamp is on in the vicinity.

## **12. Customer support and AS guide**

### **12.1 Before requesting A/S**

- ① If the product is not operating normally, refer to the diagnostic trouble listed in the front.

### **12.2 A/S cost**

- ① Our warranty period is two years. (Panel is one year)
- ② The cost incurred during A/S will be determined according to the A/S price criteria for each item under our by-laws, and please contact us for the exact repair cost.
- ③ Even within the warranty period, if there is a mistake in use, shipping and after-sales fees will be charged.