

MC45

User Manual



Table of Contents

About the Guide	4
Getting Started	5
Unpacking	5
Device Instruction & Installation	6
Installation Guide	7
Power Supply Instructions	8
Install The Mount Plate	8
Using the Tablet	10
Home Screen	10
Setting Home Screen Rotation	11
Status Bar	13
Notification Icons	13
Status Icons	13
Managing Notifications	14
Opening the Quick Access Panel	15
Quick Access Panel Icons	15
Editing Icons on the Quick Settings Bar	16
Power Options	16
Waking the Device	16
USB Communication	16
Enable USB Debugging	17
Transferring Files	19
Transferring Photos (PTP)	20
SD Card mounting	20
No Data Transfer Mode	21
Disconnection from PC	21
Power off	22
Restart	23
Task Manager	24
About Tablet	25
Upgrading	25
Settings	26
Accessing Settings	26
Display Settings	27
General Sound Setting	30
System Settings	32
Notifications	35

Setting App Notifications	35
Controlling Lock Screen Notifications	38
Applications	39
Installed Applications	39
Accessing Apps	40
Switching Between Recent Apps	41
Steps to Upload Products to the Backend Server	42
Using Quickscan	44
Using Unlockdemo	45
Data Capture	46
Scan engine	46
Scan Settings	46
Floating Action Button	49
Trigger Mode	50
Output Mode	50
Broadcast Output Settings	51
Output by keyboard	51
Encode	52
Other settings	53
Reader params	54
Data Format	54
Symbology settings	56
Reset	58
Import config/Export config	58
Wireless	59
Connect to WLAN	59
Bluetooth	62
Change Bluetooth Device Name	63
Bluetooth Connection	64
Management Paired Devices	66
Connection Preferences	67
Accessories	68
List of Standard Accessories	68
Maintenance and Troubleshooting	69
Maintenance	69
MC45 Cleaning	69
Troubleshooting	70

About the Guide

Introduction

This guide provides information about using the Price Checker and accessories.

NOTE: Screens and windows pictured in this guide are samples and can differ from actual screens.

Determining the Serial Number

Before contacting Customer Support, determine the serial number of your device.

Touch **Settings > About Tablet > Model > Serial Number**.

Determining Software Versions

Before contacting Customer Support, determine the current software version on your device.

1. Touch **Settings > About Tablet**.
2. Scroll to view the following information:

- Device name
- Legal information
- Model (Serial number)
- Android version
- Wi-Fi MAC address
- Bluetooth address
- Build number

Service information

If you have a problem with your equipment, contact Customer Support for your region. Contact information is available at: www.meferi.com.

When contacting support, please have the following information available:

- Device SN (Serial number) (found on manufacturing label)
- Model number or product name (found on manufacturing label)
- Software type and version number

Customer Support responds to calls by email or telephone within the time limits set forth in support agreements.

Getting Started

Introduction

This chapter describes product information and instruction of device for the first time.

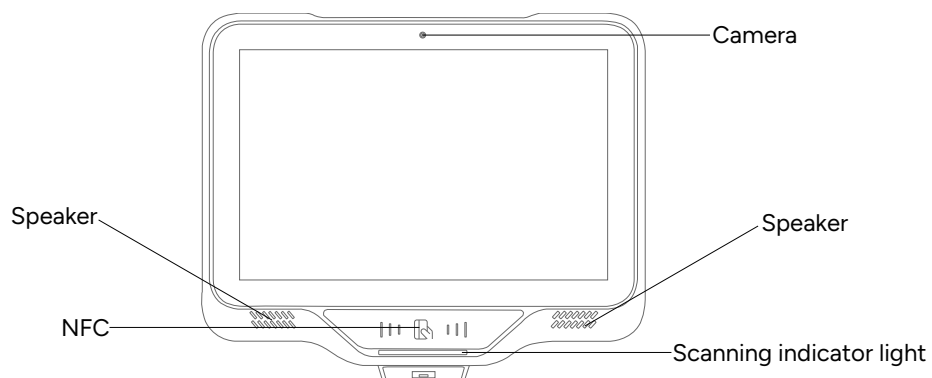
Unpacking

To unpack the device:

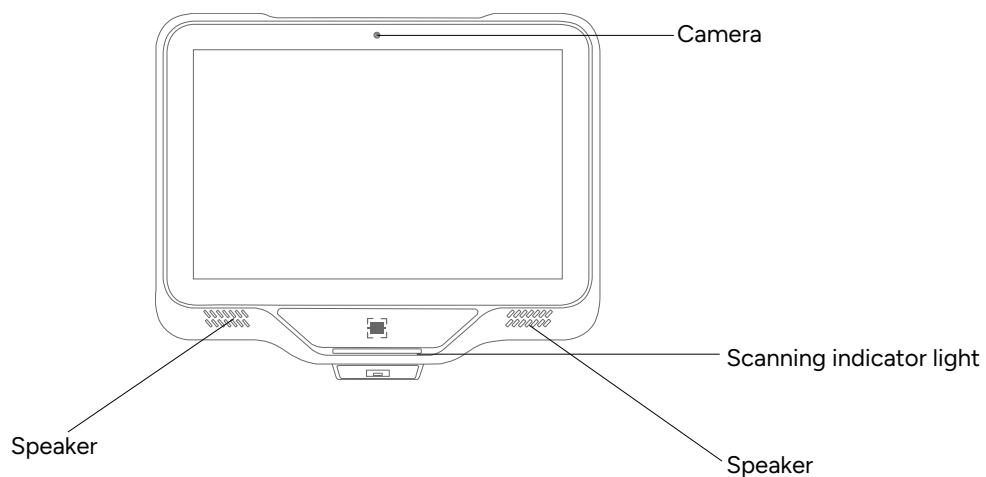
1. Carefully remove all protective material from the device and save the shipping container for later storage and shipping.
2. Verify that the following items were received:
 - MC45 Device ×1
 - Power Adapter ×1
 - Long Cross Screws ×4
 - M4.0*6.0 Cross Screws ×5
 - Mount Plate ×1
 - Quick start guide ×1
3. Inspect the equipment for damage. If any equipment is missing or damaged, contact customer support center immediately.
4. Please remove the screen shipping protective film before using.

Device Instruction & Installation

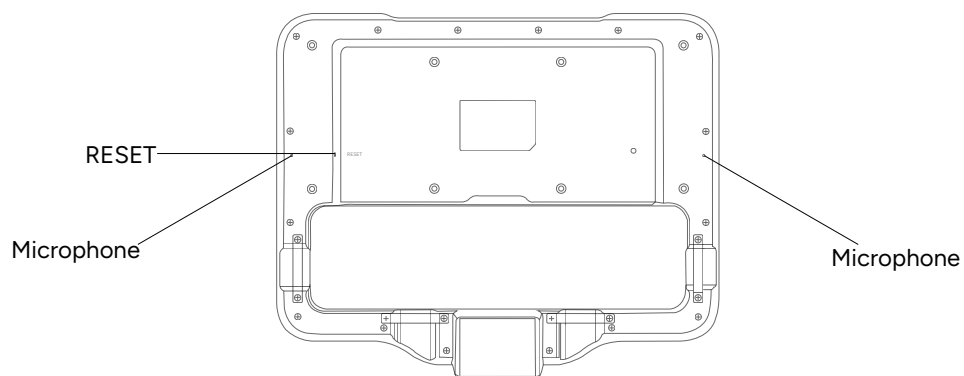
Front (with NFC function)

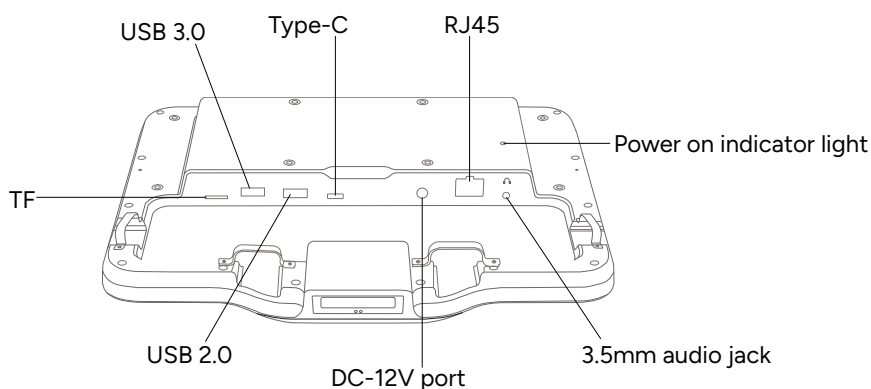


Front (without NFC function)

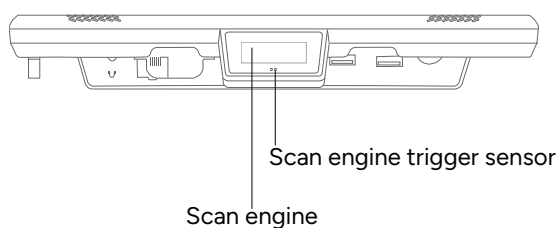


Back





Bottom

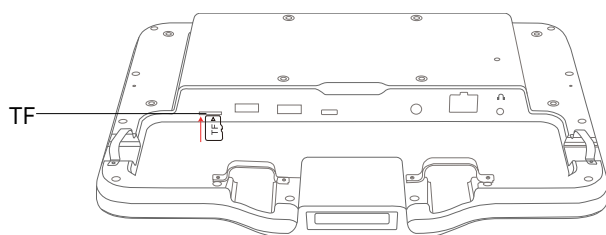


Installation Guide

Instruction on TF Card installation

Supports Micro SD cards up to 512GB, compatible with Class 2 to Class 10 and UHS-I SD cards.

Insert SD card into the push-push SD card slot.

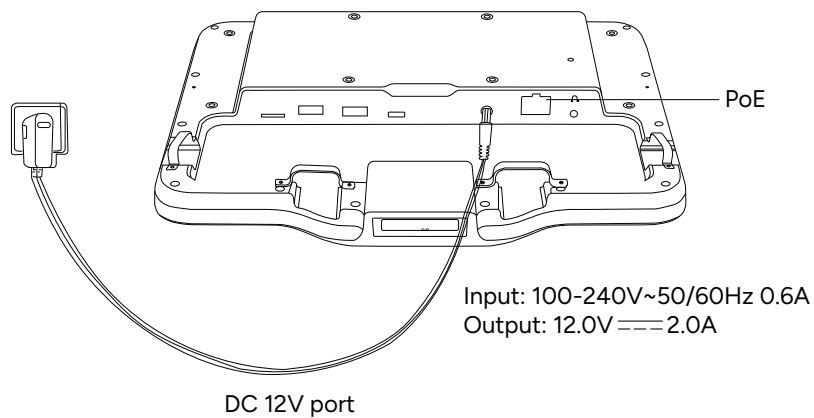


Note:

Overexertion should be avoided when installing or removing the TF.

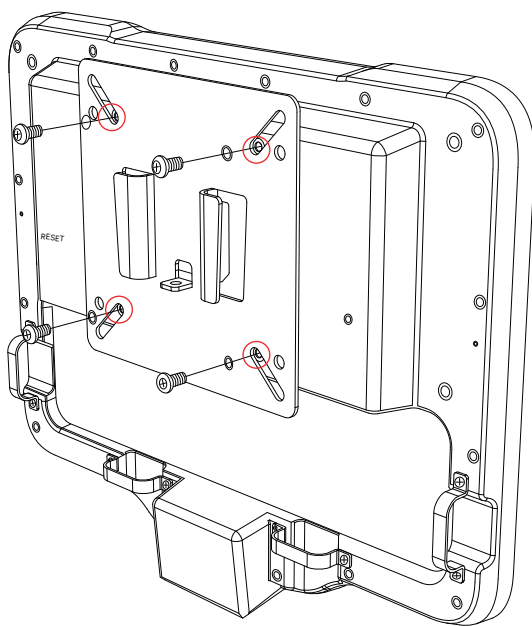
Power Supply Instructions

1. The MC45 mounted computer supports Power over Ethernet (PoE).
2. Connect the adapter to the DC 12V port and the other end to the device to complete the power supply.

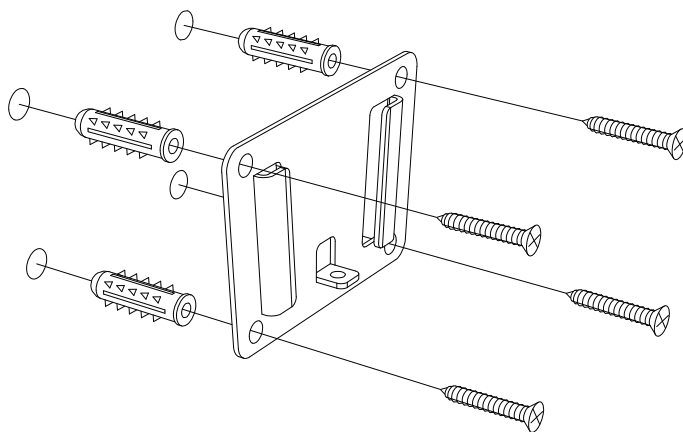


Install The Mount Plate

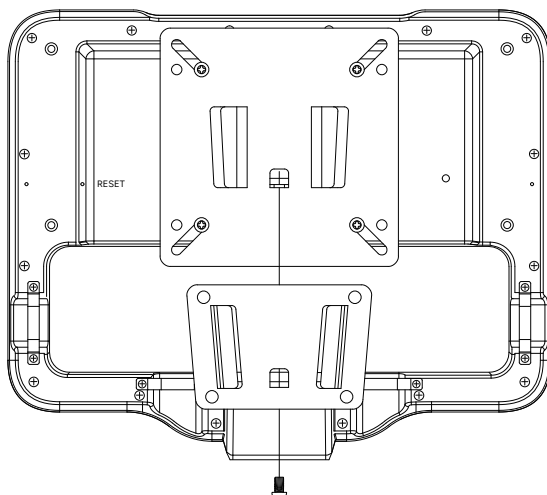
1. Use four M4.0*6.0 cross screws to connect the square steel plate to the back of the MC45 mounted computer, and tighten the screws with a screwdriver.



2. Use four long cross screws to secure the trapezoidal small steel plate on the wall.



3. After completing the above two steps, hang the MC45 mounted computer with the square steel plate onto the trapezoidal small steel plate and secure it with an M4.0*6.0 cross screw. The installation of the **Mount Plate** is now complete.

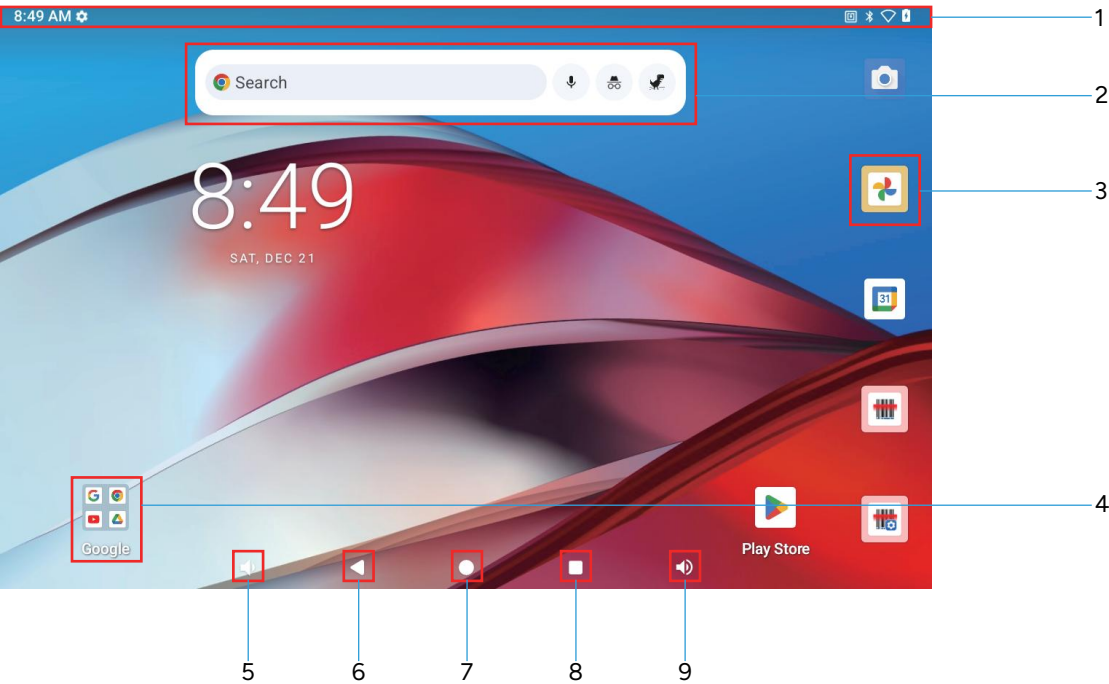


Using the Tablet

This chapter explains how to use the device.

Home Screen

Turn on the device to display the Home screen. Depending on how your system administrator configured your device, your Home screen may appear differently than the graphics in this chapter.

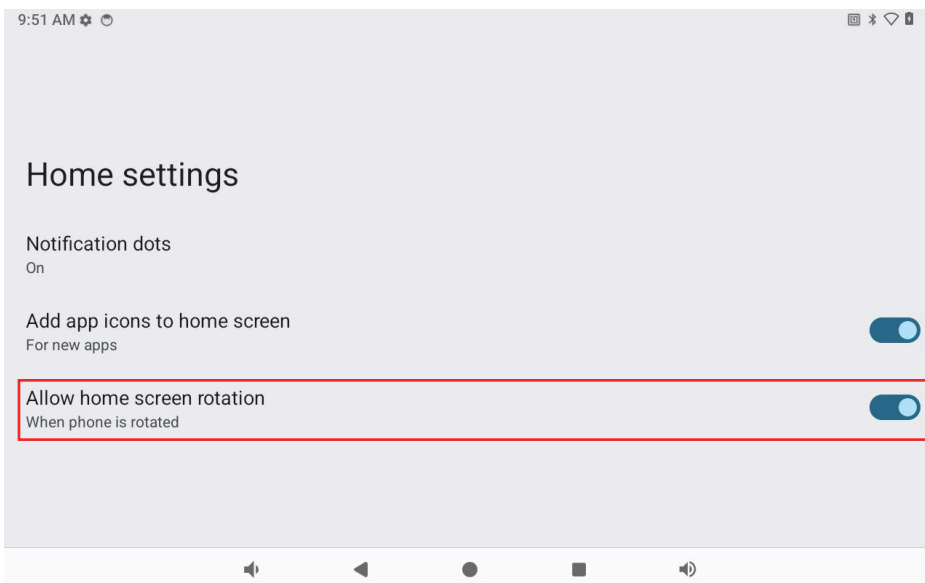
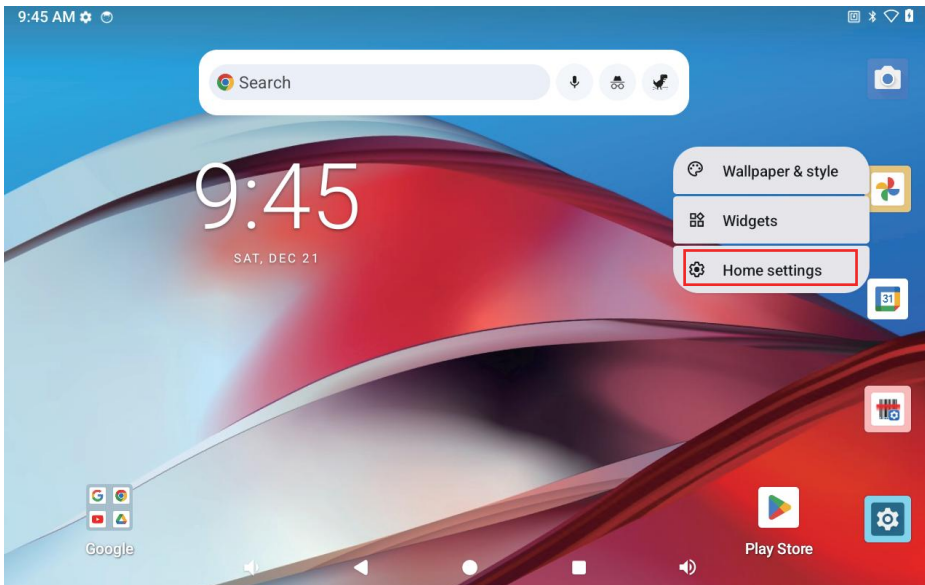


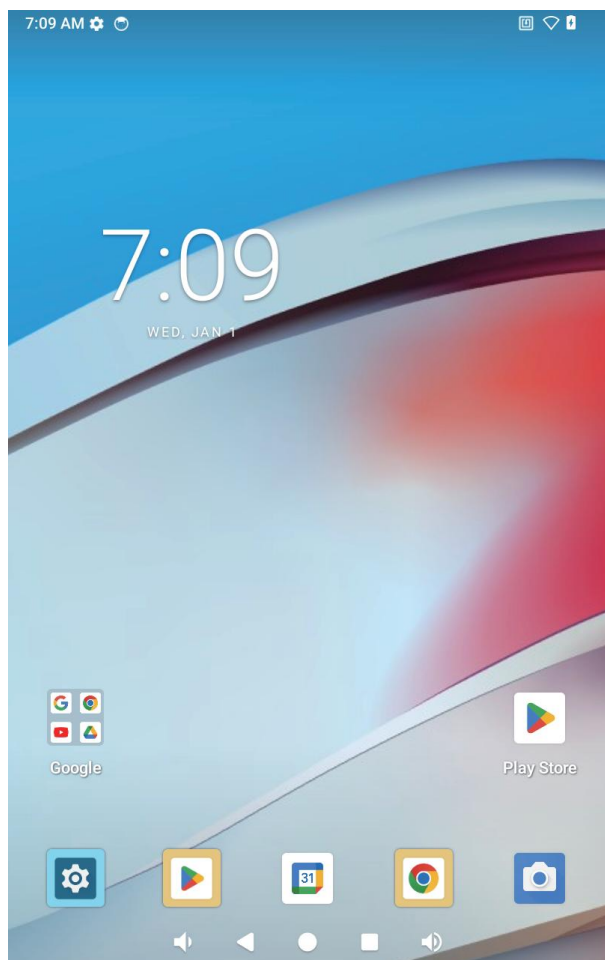
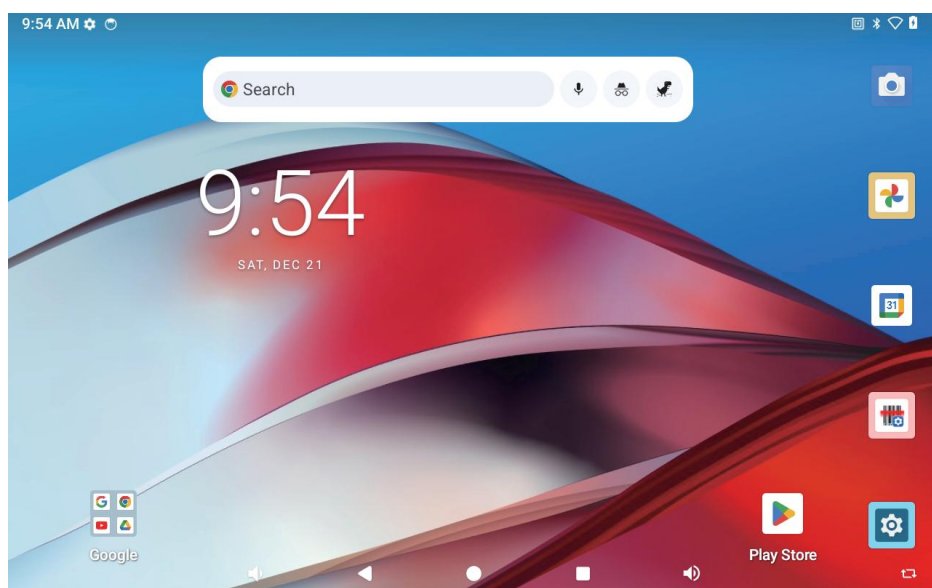
1	Status bar	Displays the time, status icons (right side), and notification icons (left side).
2	Widgets	Launches stand - alone apps that run on the Home screen.
3	Shortcut icons	Opens apps installed on the device.
4	Folder	Contains apps.
5	Volume-	Decrease the system volume.
6	Back	Back to previous level.
7	Home	Main menu.
8	Menu	Recent apps.
9	Volume+	Increase the system volume.

Setting Home Screen Rotation

By default, the Home screen rotation is disabled.

1. Touch and hold anywhere on the Home screen until the options appear.
2. Touch **Home settings**.
3. Touch the **Allow home screen rotation** switch.
4. Touch **Home**.
5. Rotate the device.





Status Bar

The Status bar displays the time, notification icons (left side), and status icons (right side).

If there are more notifications than can fit in the Status bar, a dot displays indicating that more notifications exist.

Swipe down from the Status bar to open the Notification panel and view all notifications and status.



Notification Icons

Notification icons indicate app events and messages.

Icon	Description
•	More notifications are available for viewing.
	Data is syncing.
	Indicates an upcoming event. AOSP devices only.
	Open Wi-Fi network is available.
	Audio is playing.
	Problem with sign-in or sync has occurred.
	Device is uploading data.
	Animated: the device is downloading data. Static: the download is complete.
	Preparing internal storage by checking it for errors.
	Indicates the ring scanner is connected to the device in HID mode.

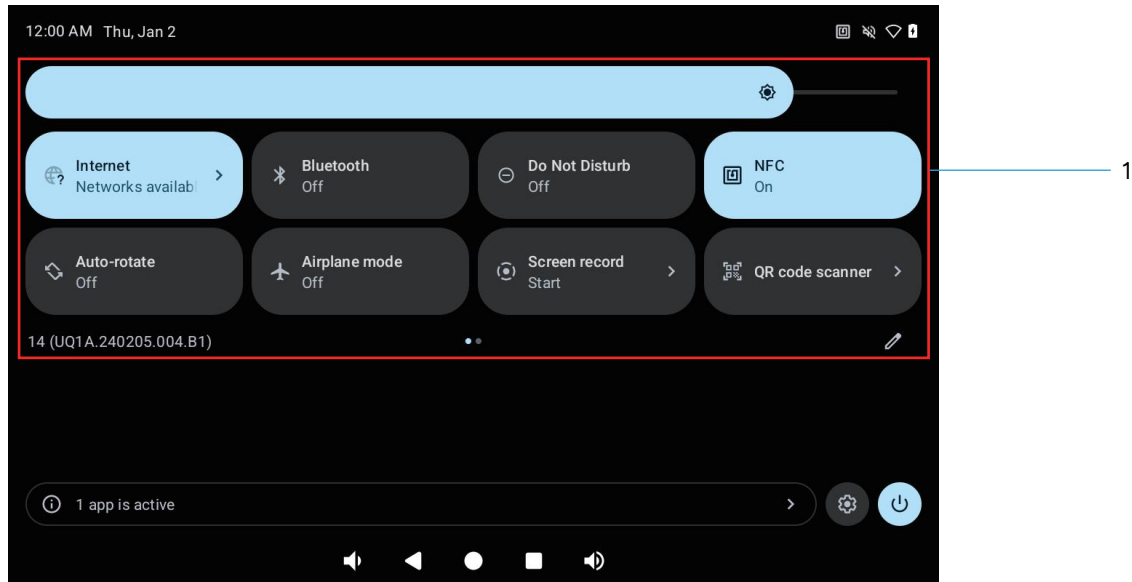
Status Icons

Status icons display system information for the device.

Icon	Description
	Alarm is active.
	Powering.
	Silent mode, all sounds turned off.
	Do Not Disturb mode active.
	Airplane Mode is active. All radios are turned off.
	Bluetooth is on.
	Connected to a Wi-Fi network. Indicates the Wi-Fi version number.
	Not connected to a Wi-Fi network or no Wi-Fi signal.

Managing Notifications

Notification icons report the arrival of new messages, calendar events, alarms, and ongoing events. When a notification occurs, an icon appears in the Status bar with a brief description.

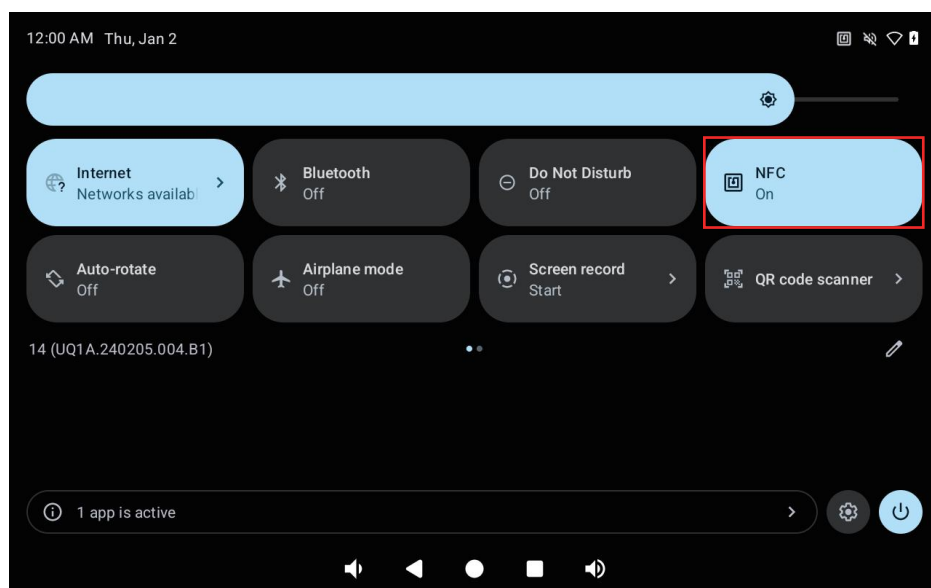


1	Quick settings bar
---	--------------------

- To view a list of all notifications, open the notification panel by dragging the Status bar down from the top of the screen.
- To respond to a notification, open the notification panel and then touch a **Notification**. The Notification panel closes and the corresponding app opens.
- To manage recent or frequently used notifications, open the notification panel and then touch **Manage**. Touch the **APP Notification** to turn off all notifications, or touch an **App** for more notification options.
- To clear all notifications, open the notification panel and then touch **CLEAR ALL**. All event-based notifications are removed. Ongoing notifications remain in the list.
- To close the Notification panel, swipe the Notification panel up.

Opening the Quick Access Panel

Use the Quick Access panel to access frequently used settings (for example, **NFC** mode).



- If the device is locked, swipe down once.
- If the device is unlocked, swipe down once with two fingers, or twice with one finger.
- If the Notification panel is open, swipe down from the **Quick Settings** bar.

Quick Access Panel Icons

Quick Access panel icons indicate frequently used settings (for example, **Bluetooth** mode).

Icon	Description
	Display brightness - Use the slider to decrease or increase the brightness of the screen.
	Internet - Turn Wi-Fi on or off. To open Wi-Fi settings, touch the Wi-Fi network name.
	Bluetooth settings - Turn Bluetooth on or off. To open Bluetooth settings, touch Bluetooth.
	Do not disturb - Control how and when to receive notifications.
	Airplane mode - Turn Airplane mode on or off. When Airplane mode is on the device does not connect to Wi-Fi or Bluetooth.
	Auto-rotate - Lock the device's orientation in portrait or landscape mode or set to automatically rotate.
	Alarm is active.

Editing Icons on the Quick Settings Bar

The first several setting tiles from the **Quick Access panel** become the **Quick Settings bar**.

Open the **Quick Access panel** and touch  to edit, add, or remove settings tiles.

Power Options

Power on and off: When powered, the MC45 mounted computer will automatically power on, and when powered off, it will automatically power off.

Waking the Device

The device goes into Suspend mode when you after a period of inactivity (if the never setting is changed to something else in **Settings > Display > Screen timeout**).

To wake the device from Suspend mode, swipe the screen up to unlock.

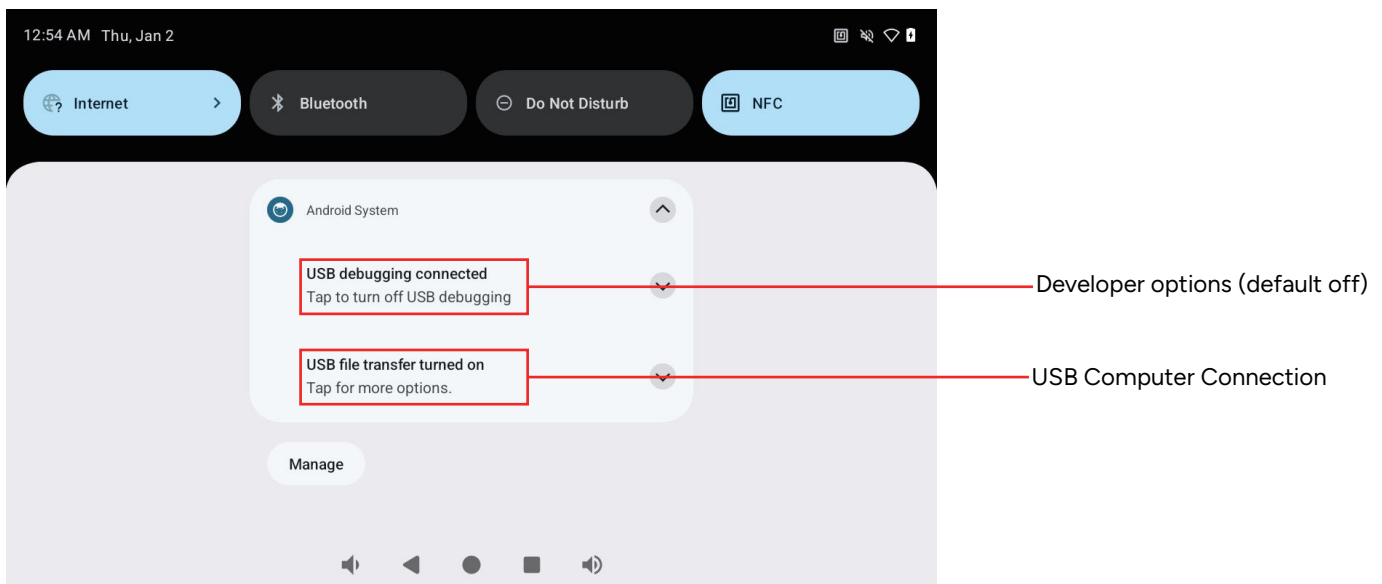
- If the Pattern screen unlock feature is enabled, the Pattern screen appears instead of the Lock screen.
- If the PIN or Password screen unlock feature is enabled, enter the PIN or password after unlocking the screen.

CAUTION: If you enter the PIN, password, or pattern incorrectly five times, you must wait 30 seconds before trying again.

- If you forget the PIN, password, or pattern, contact your system administrator.

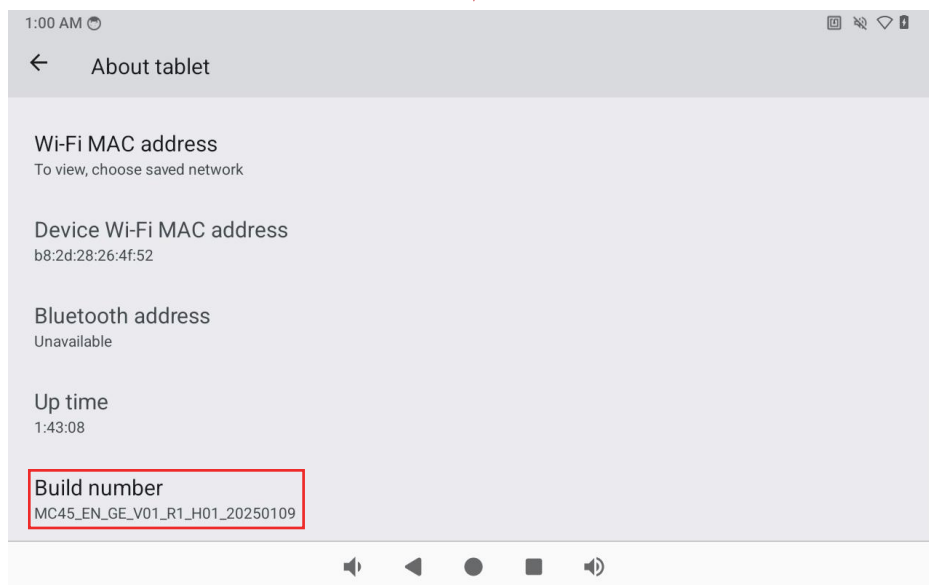
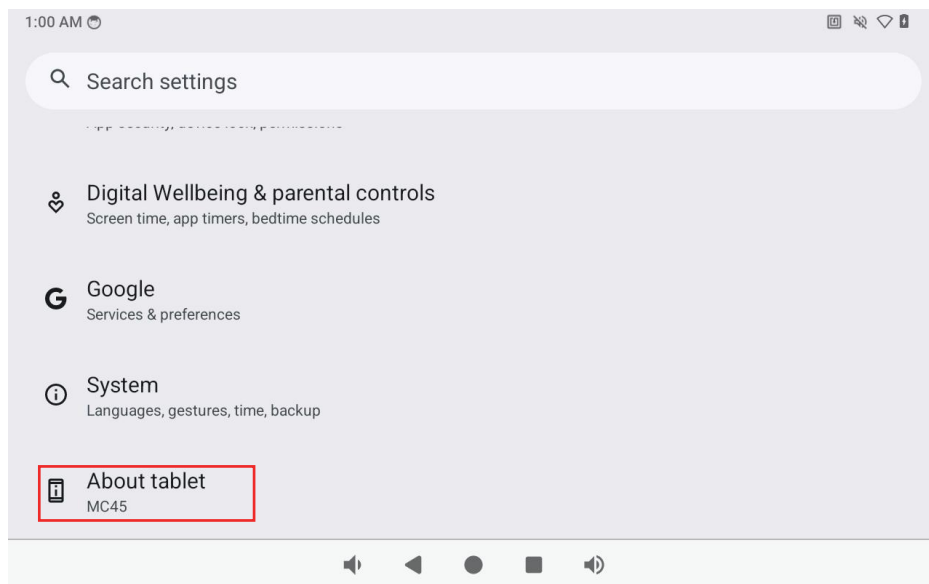
USB Communication

Insert one end of the device's USB cable to the device and the other to the PC's USB port to connect the device to the PC, press and hold the top of screen at any interface of the device and pull down to enter the USB settings interface:

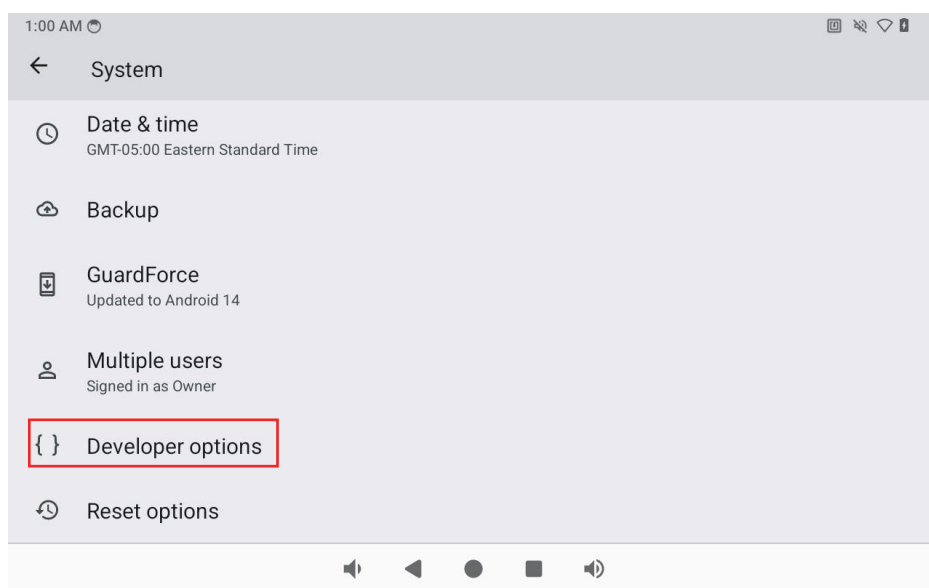


Enable USB Debugging

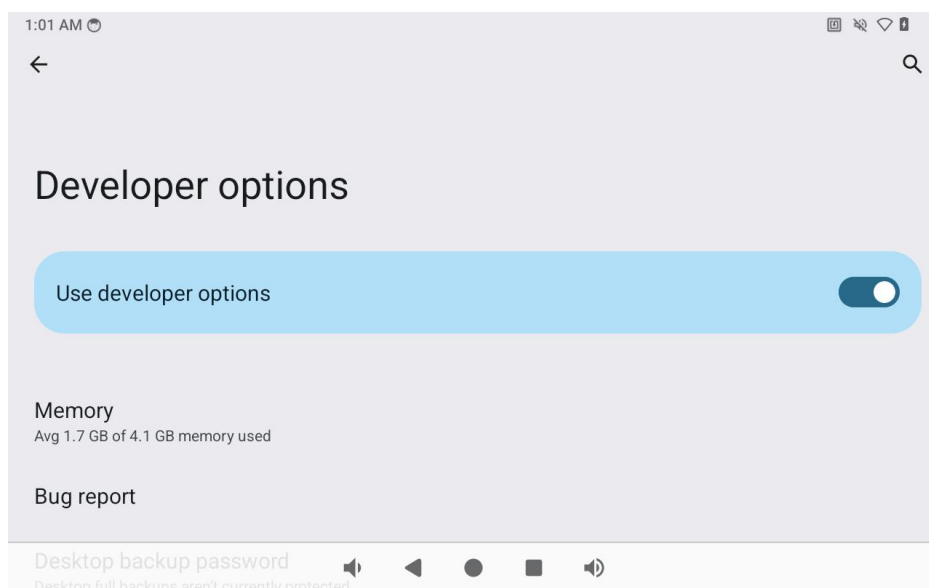
1. Open **Settings** - **About tablet** - Click **Build number** 5 times in a row.



2. Open **Settings** - **System** - **Developer options**.

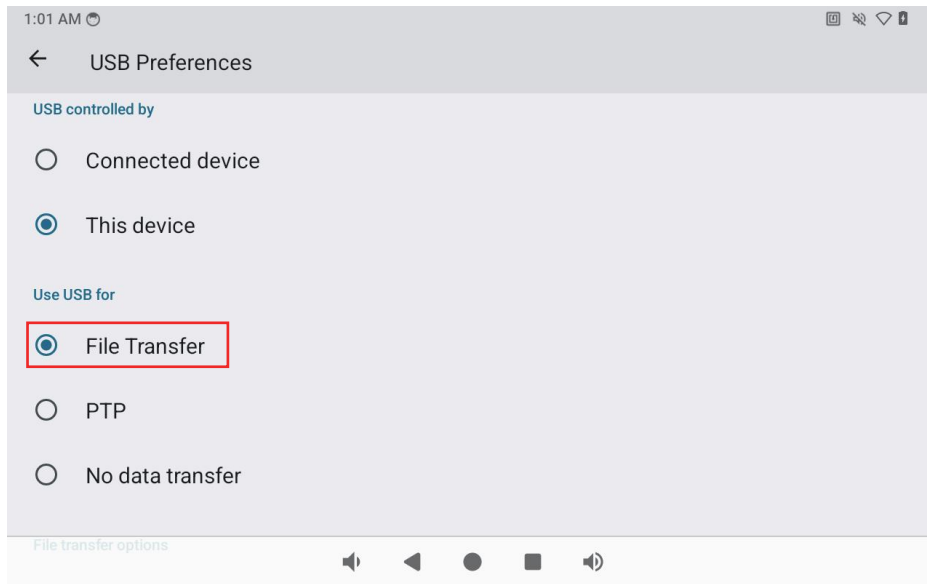


3. Enable USB Debugging to enter the debugging mode.



Transferring Files

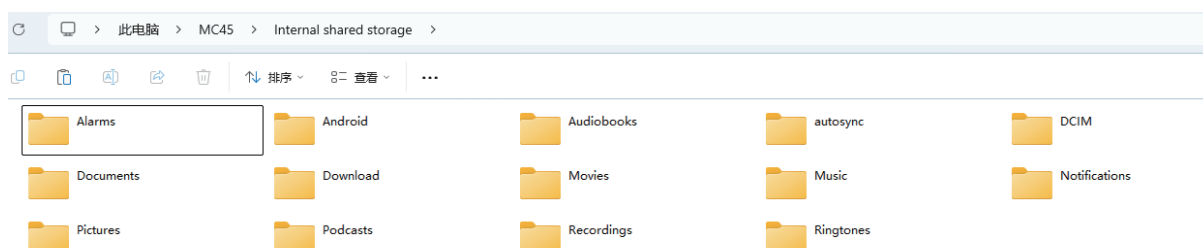
1. Connect the device to PC by a USB cable.
2. Pull down the status bar to open the notification panel. Select **File Transfer** in USB preferences to transfer media files to Windows or transfer files by any Android file transfer app to Mac.



3. At PC end, open My Computer to access MC45 device.



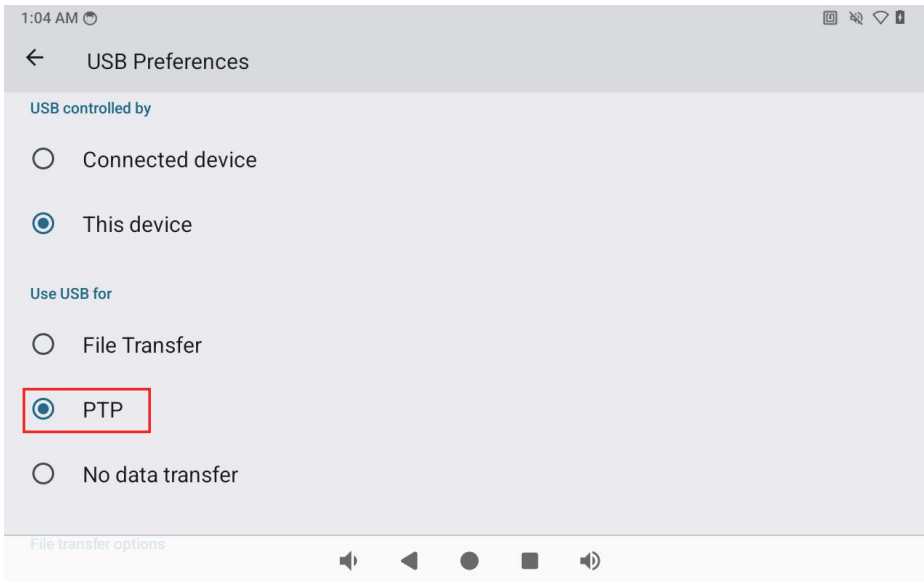
4. Open the SD card or the Internal storage folder.
5. Copy files to and from the device or delete files as required.



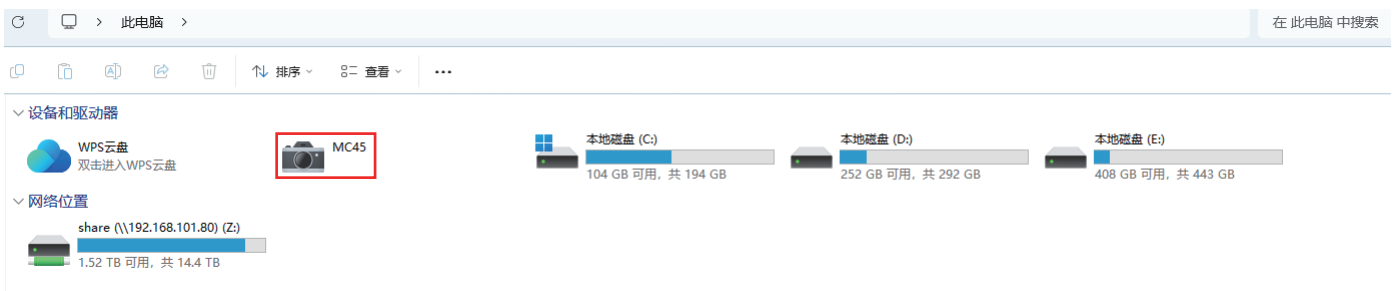
Transferring Photos (PTP)

NOTE: It is recommended to install a microSD card in the device for storing photos due to limited internal storage.

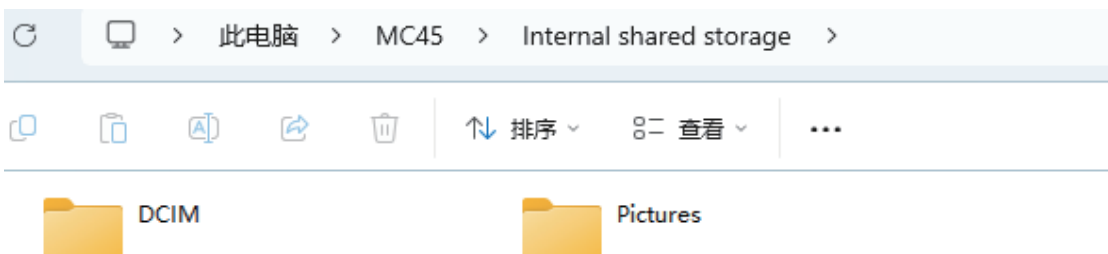
1. Connect the device to PC by a USB cable.
2. Pull down the status bar to open the notification panel and select **PTP** in USB use for to transfer photos to Windows.



3. At PC end, open My Computer to access MC45 device.



4. Open the SD card or the Internal storage folder.
5. Copy or delete photos as required.

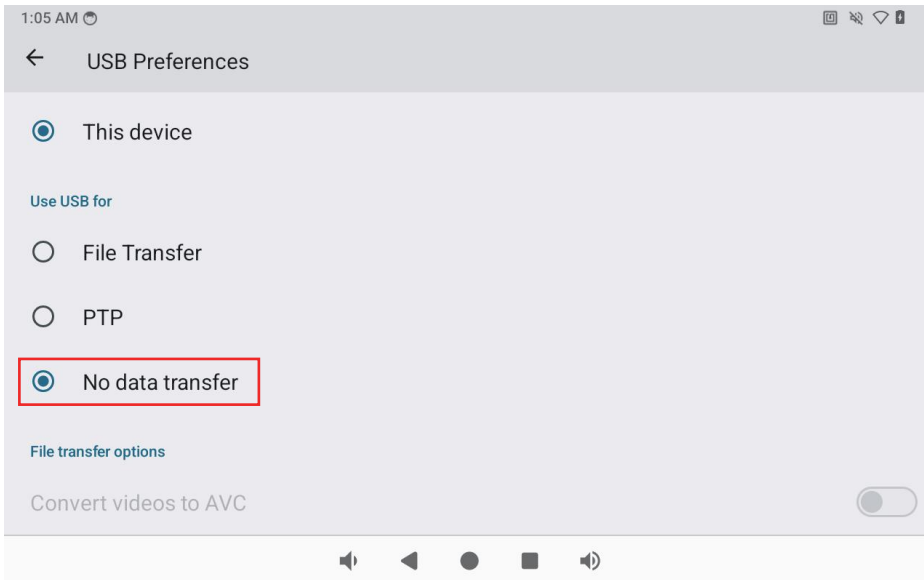


SD Card mounting

In this mode, no microSD Card directory folder will be shown at PC end until a microSD Card is inserted into PC.

No Data Transfer Mode

1. Connect the device to PC by a USB cable.
2. Pull down the status bar to open the notification panel and select **No Data Transfer** in USB Purpose.



3. In the **No data transfer** mode, data communication is not available.

Disconnection from PC

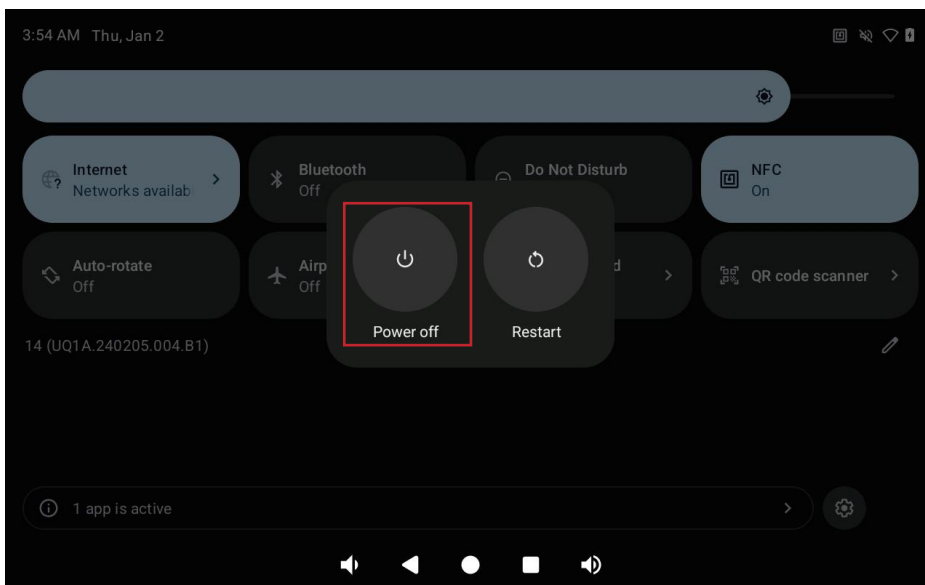
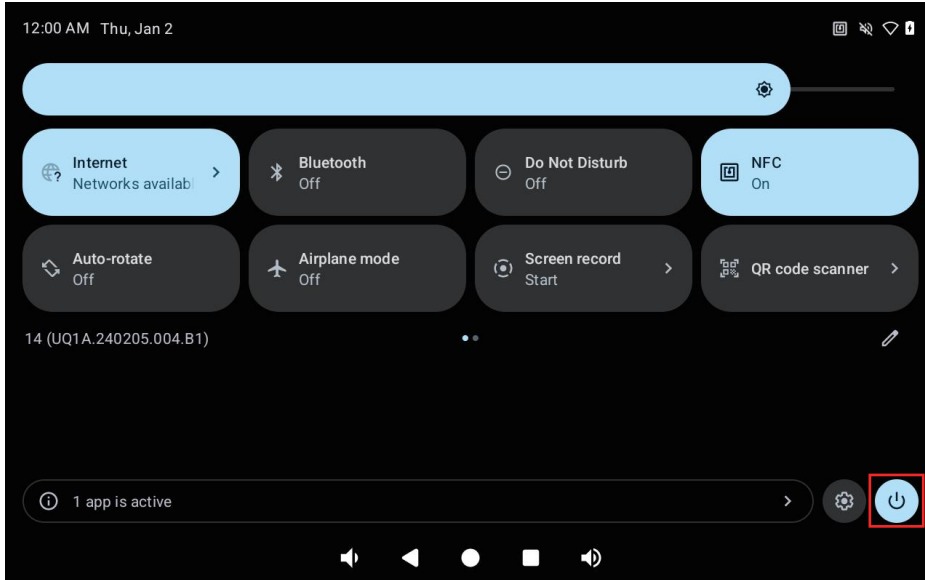
Caution: Please safely unplug the device as instructed at PC before removing the USB cable in case of loss of data.

1. Find the external device identification in the task bar at the bottom right corner of PC.
2. Right click to select Unplug MC45 Device.
3. Carefully remove the USB cable.

Power off

Method 1

1. Open the **Quick Access Panel**, scroll down, click  , and select power off.



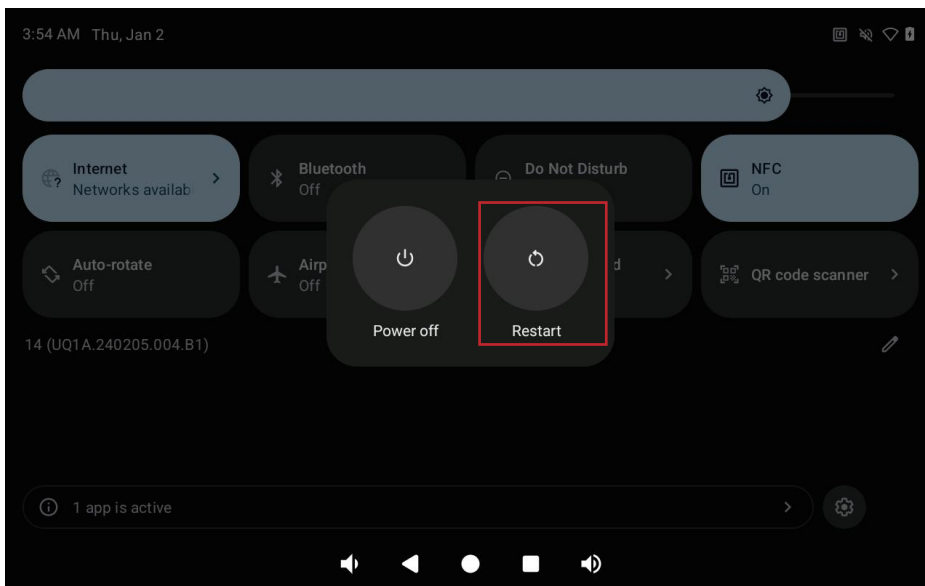
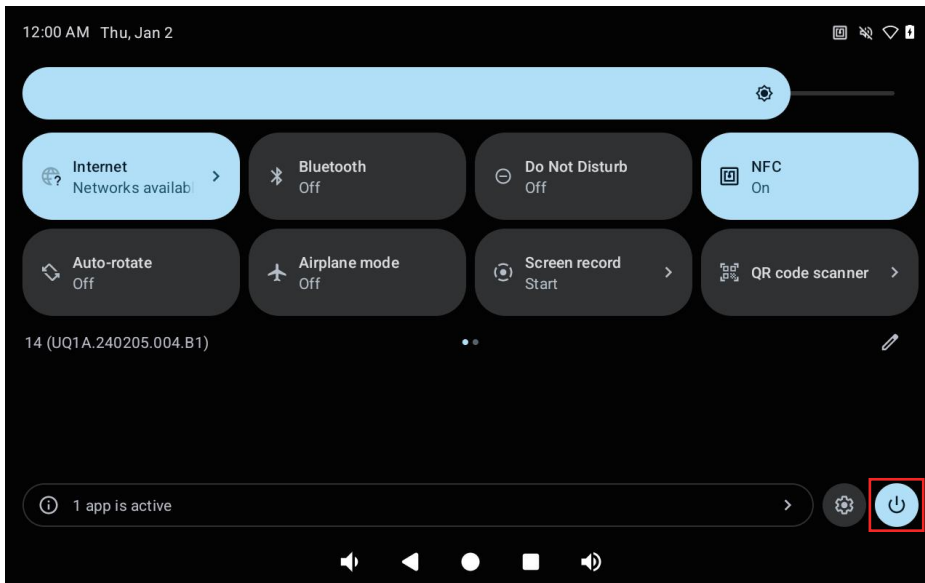
Method 2

Use a pin to insert into the **RESET** hole on the back of the MC45 mounted computer to switch the screen on and off.

Notice: When powered, the MC45 mounted computer will automatically power on, and when powered off, it will automatically power off.

Restart

Open the **Quick Access Panel**, scroll down, click , and select Restart.

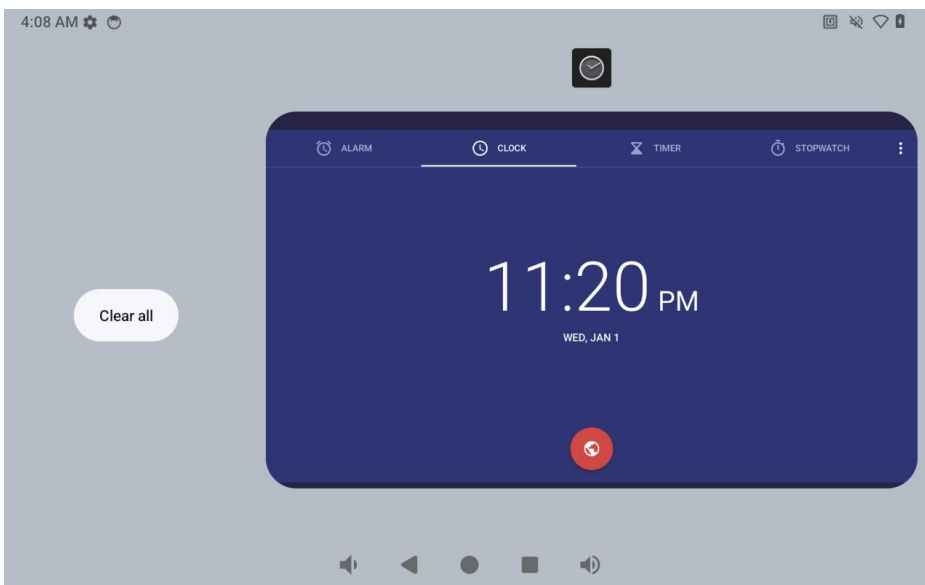
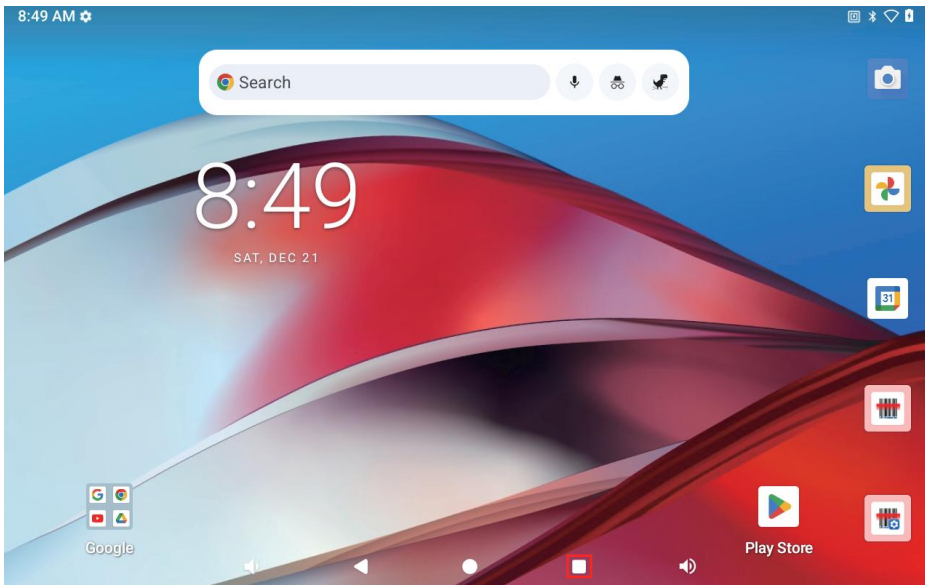


Method 2

Hold a pin to insert the **RESET** hole on the back of the MC45 mounted computer for 6 seconds to restart the device.

Task Manager

1. Click the **Menu Button** on the right and the list below will appear



2. Slide left or right the screen to find any app accessed lately.
3. Slide up to clear apps lately accessed from the background.
4. Tap the **Clear All** to clear all the lately accessed apps from the background.
5. Tap apps to be switched to switch apps.

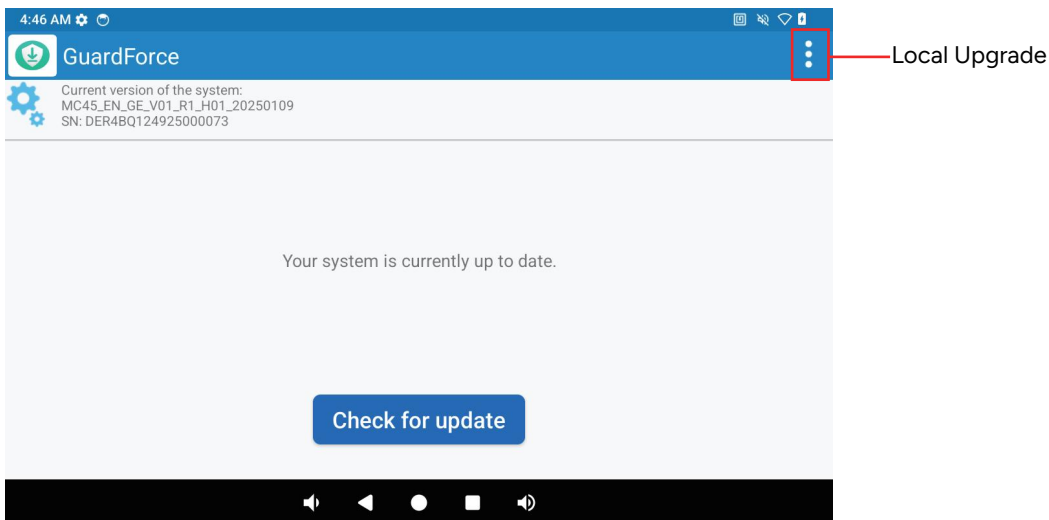
About Tablet

Open Settings - **About tablet** to view information of this Terminal Device.

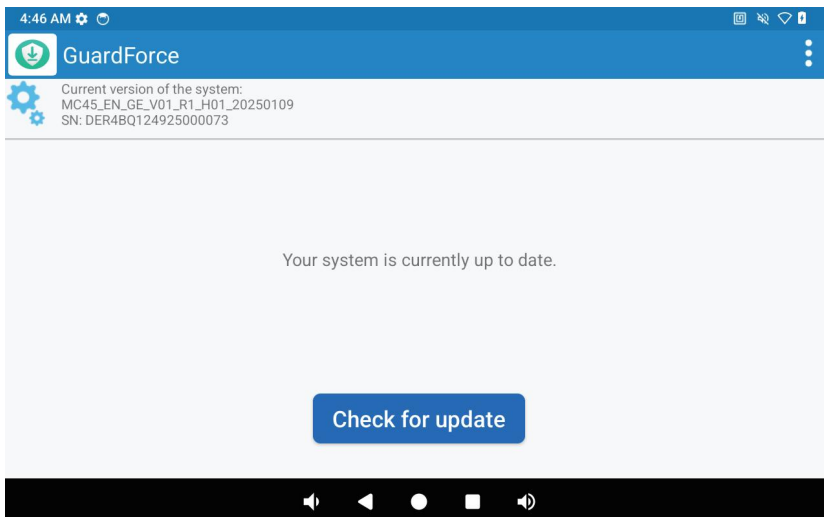
- Model—view the device's model.
- Serial number—display the device's unique identifier--SN.
- Android version—view the device's Android version.
- IP address—display the device's IP address.
- Wi-Fi MAC address—display the device's Wi-Fi physical address.
- Bluetooth address—display the device's Bluetooth address.
- Build number—display the device's Build number.

Upgrading

Local Upgrading--open **Settings - System - GuardForce** - select **Local Upgrade**.



Remote Upgrading--open **Settings - System - GuardForce**, For remote upgrading, please contact MEFERI's technical support team, And provide the device SN number and current version.



Settings

Introduction

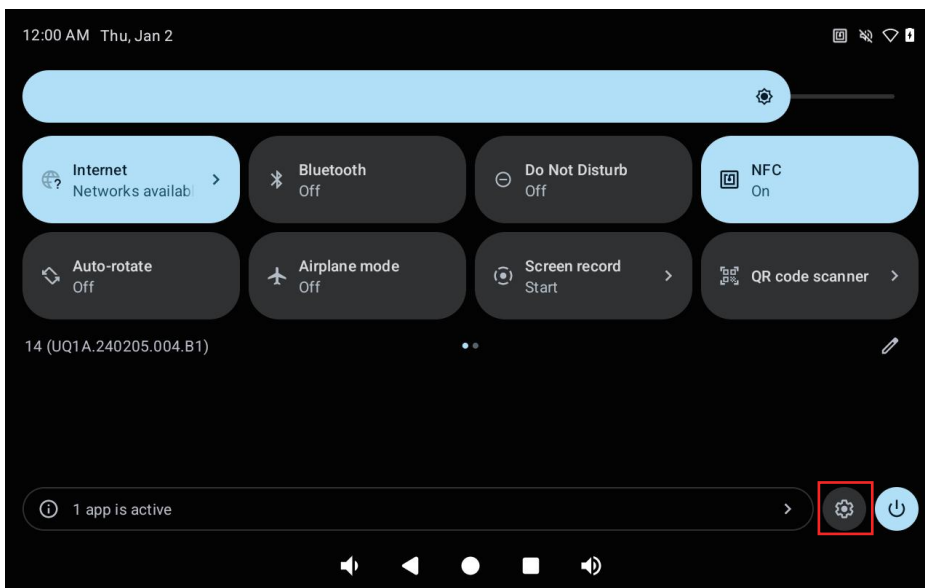
This chapter describes the settings on the device.

Accessing Settings

There are multiple ways to access settings on a device.

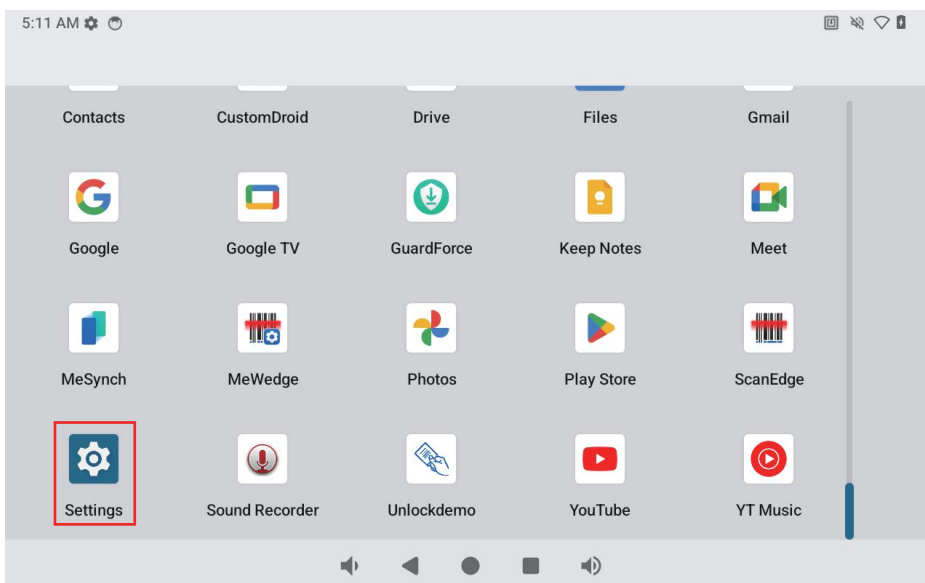
Method 1

Swipe down from the top of the Home screen to open the **Quick Access panel** and touch **Settings icon**.



Method 2

Swipe up from the bottom of the Home screen, touch **Settings APP**.



Display Settings

Introduction

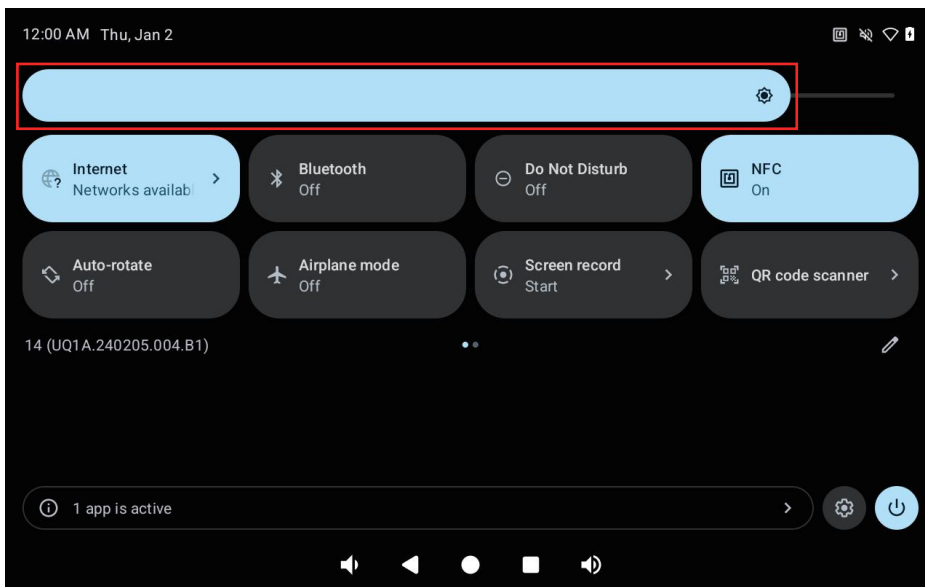
Use **Display** settings to change the screen brightness, enable screen rotation, set sleep time, and change font size.

Setting the Screen Brightness Manually

Manually set the screen brightness using the touchscreen.

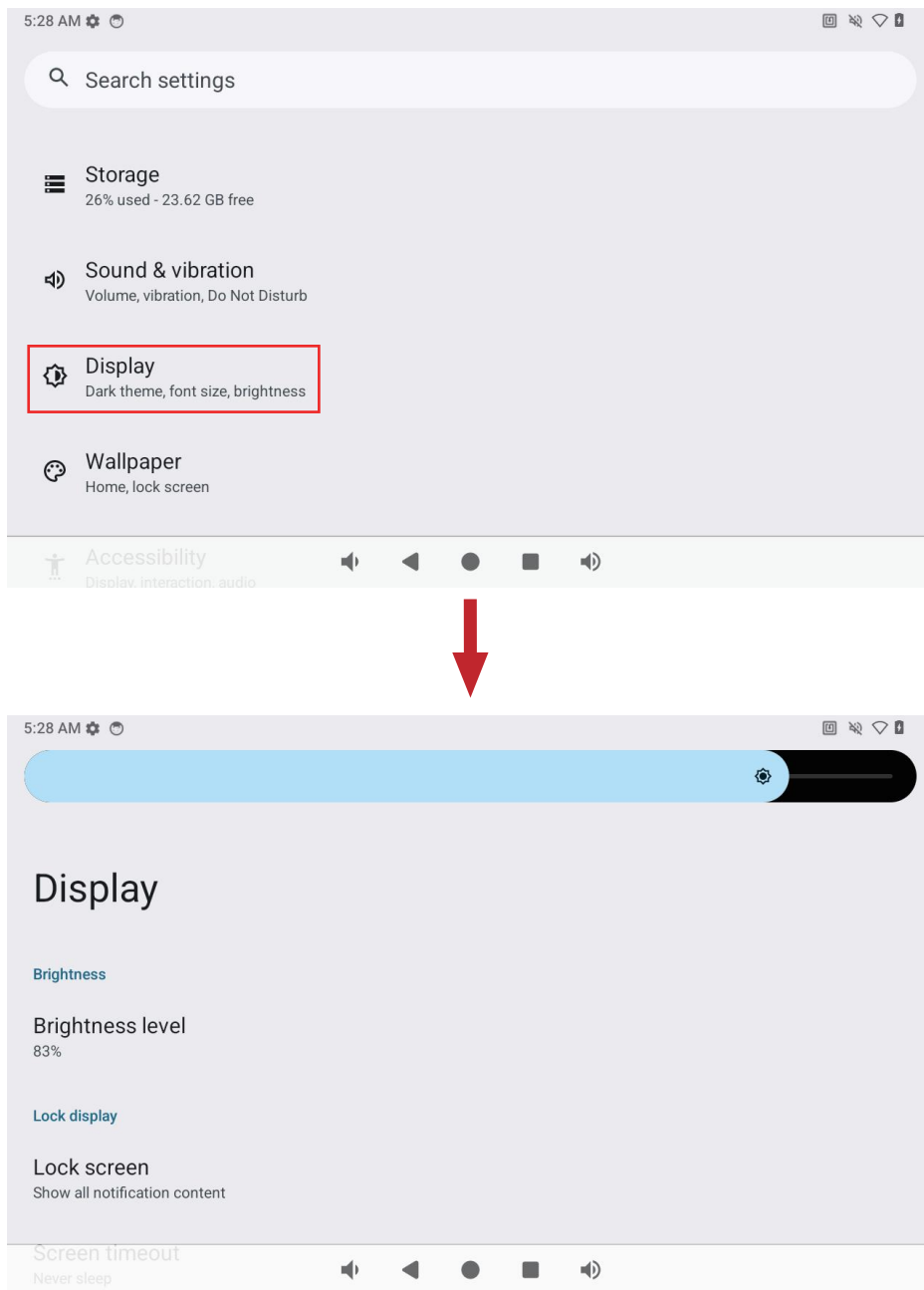
Method 1

1. Swipe down twice from the top of the Home screen to open the **Quick Access panel** and touch .
2. Slide the icon to adjust the screen brightness level.



Method 2

1. Swipe down from the top of the Home screen to open the **Quick Access panel** and touch **Settings icon** or swipe up from the bottom of the Home screen, touch **Settings APP**.
2. Touch **Display**.
3. Touch **Brightness level**, slide the icon to adjust the screen brightness level.

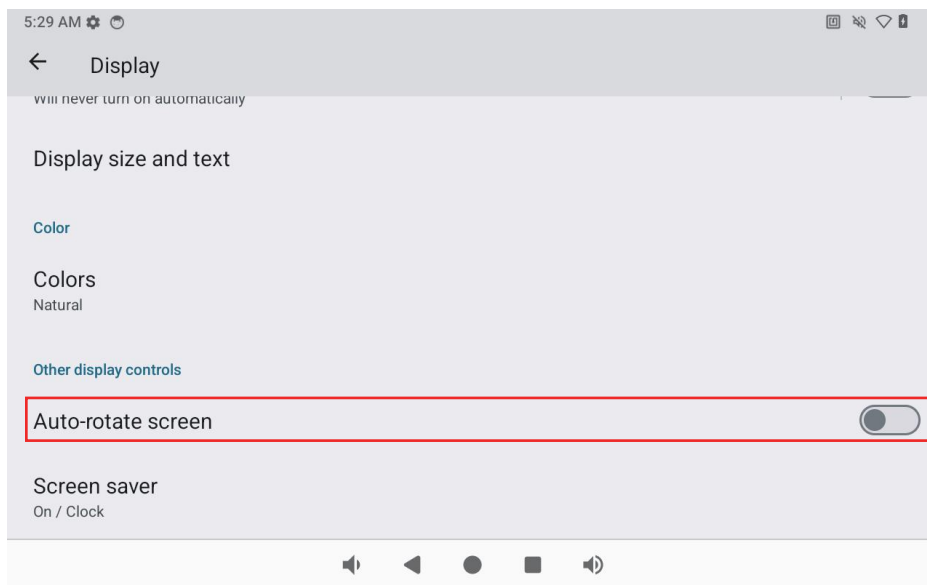


Setting Screen Rotation

By default, screen rotation is off.

NOTE: To change the Home screen rotation, see Setting Home Screen Rotation.

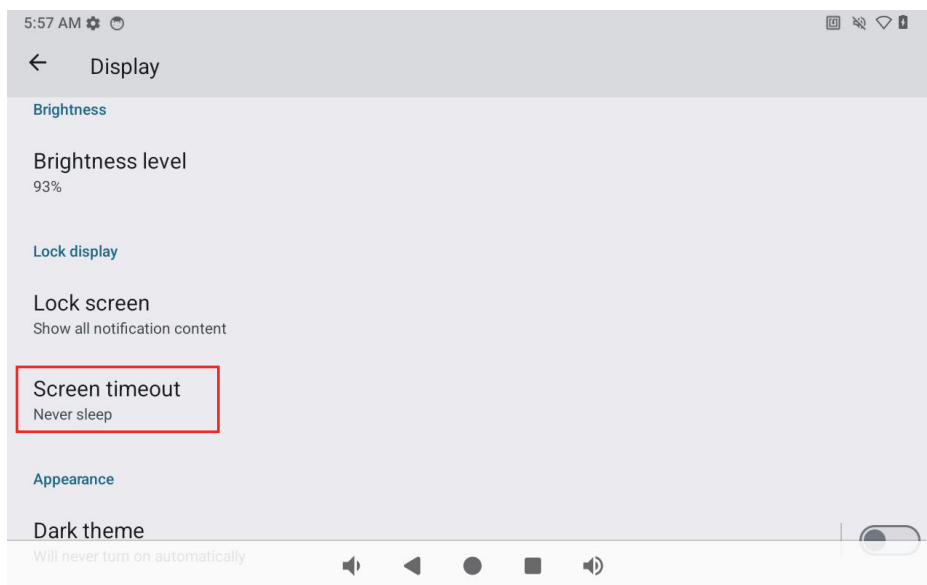
1. Go to **Settings**.
2. Touch **Display**.
3. Touch **Auto-rotate screen**.



Setting Screen Timeout

Set the screen sleep time.

1. Go to **Settings**.
2. Touch **Display**.
3. Touch **Screen timeout**, select one of the sleep values:

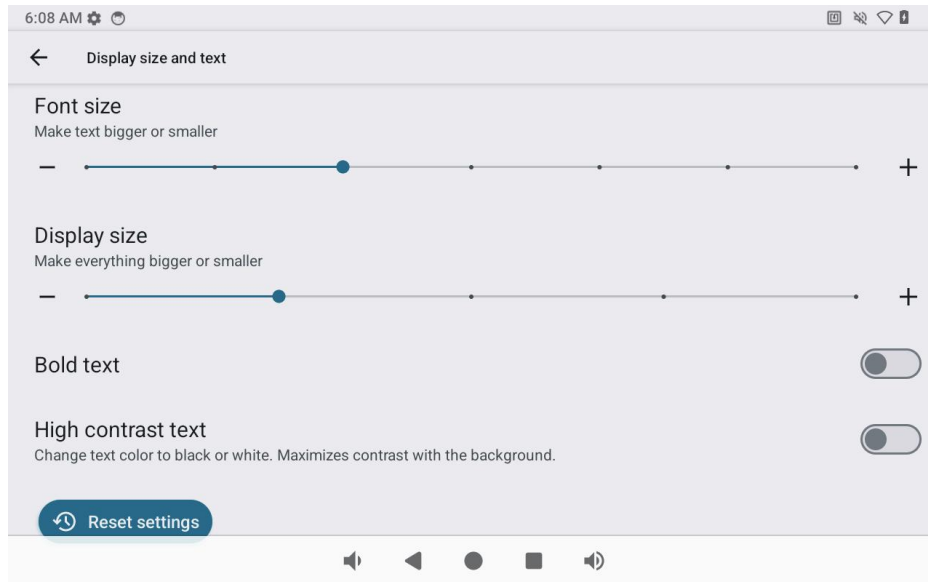


- None (default)
- 15 seconds
- 30 seconds
- 1 minute
- 2 minutes
- 5 minutes
- 10 minutes
- 30 minutes

Setting Font Size

Set the size of the font in system apps.

1. Go to **Settings**.
2. Touch **Display**.
3. Touch **Display size and text**, you can set the font size or display size

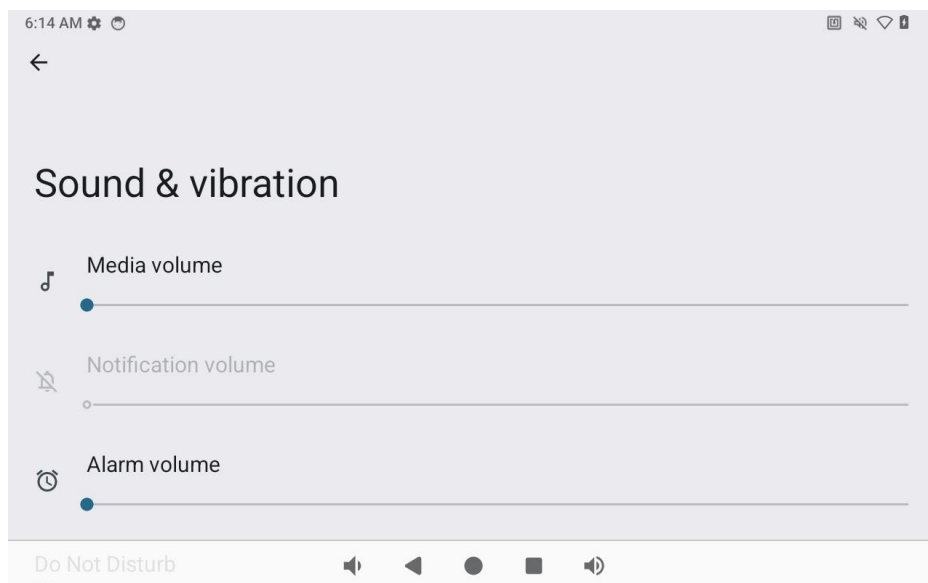


General Sound Setting

Introduction

Use the Sound settings to configure media and alarm volumes.

1. Go to **Settings**.
2. Touch **Sound & vibration**.
3. Touch an option to set sounds.



Sound Options

- Media volume—Controls the music, games, and media volume.
- notifications volume—Controls the notification volume.
- Alarm volume—Controls the alarm clock volume.
- Do Not Disturb—Mutes some or all sounds and vibrations.
- Media—Shows the media player in Quick Settings while sound is playing, allowing quick access.
- Default notification sound—Select a sound to play for all system notifications.
- Default alarm sound—Select a sound to play for alarms.
- Tap & click sounds—Play a sound when making screen selections

System Settings

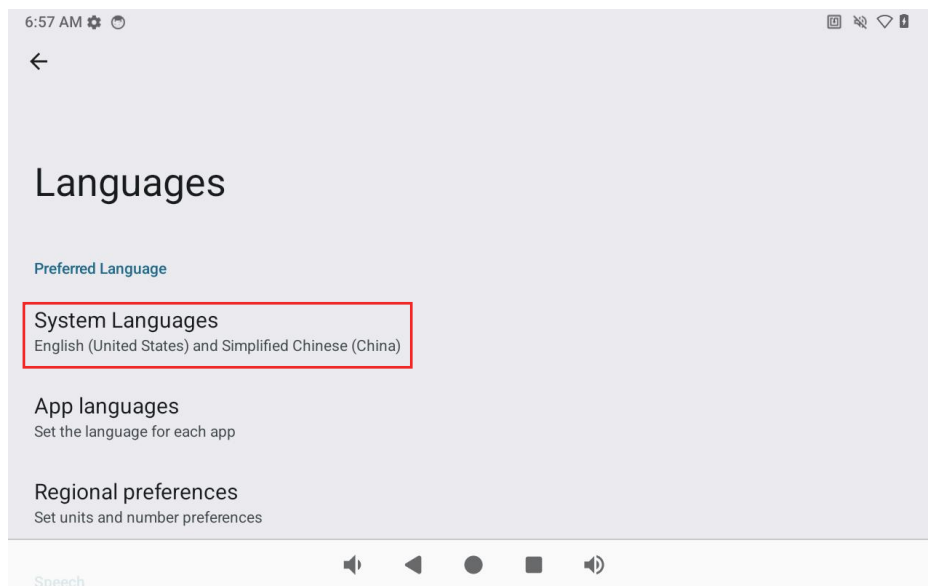
Introduction

Use System settings to change the languages, set data & time, and factory reset.

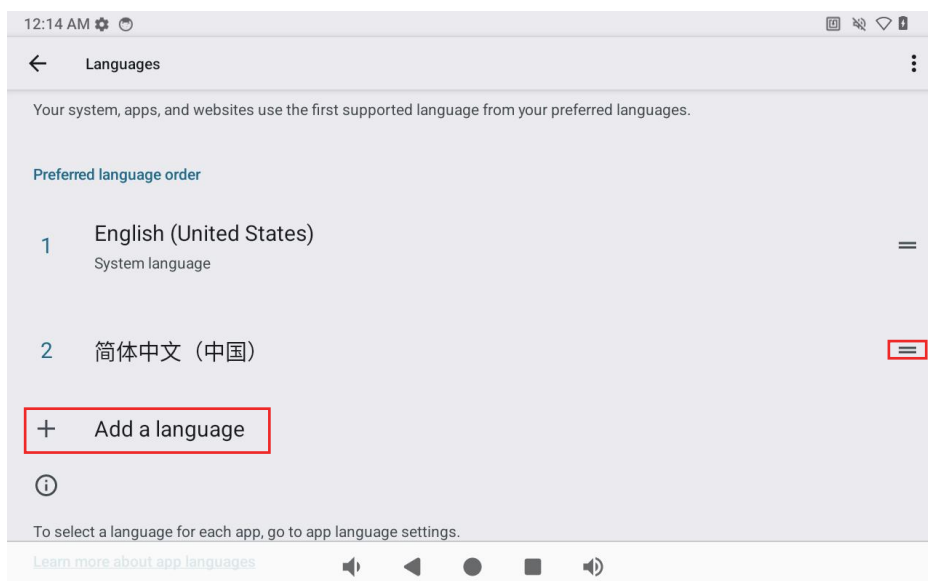
Changing the Language Setting

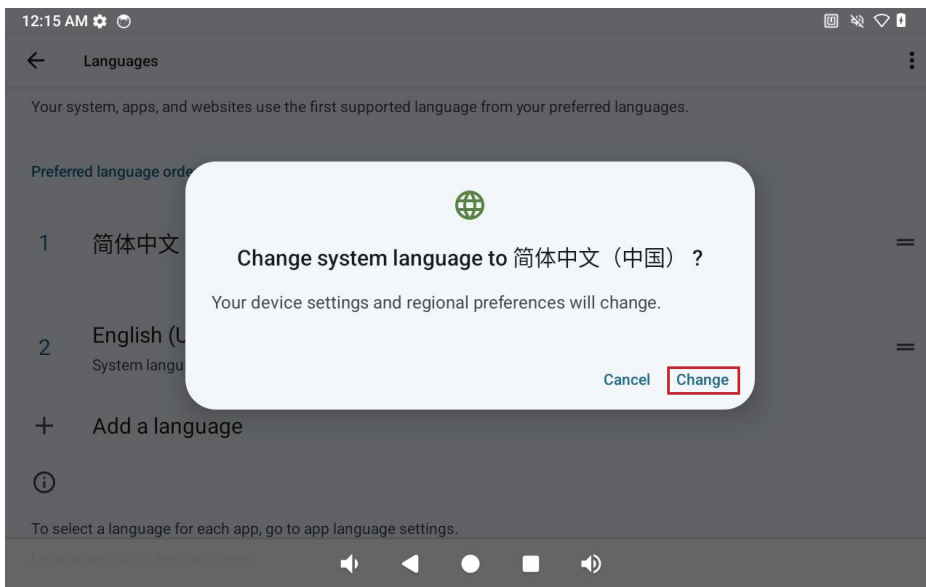
Use the Language & input settings to change the device's language.

1. Go to **Settings**.
2. Touch **System > Languages**.



3. Touch **System Languages**. A list of available languages displays.
4. If the desired language is not listed, touch **Add a language** and select a language from the list.
5. Touch and hold to the right of the desired language, then drag it to the top of the list.
6. The operating system text changes to the selected language.

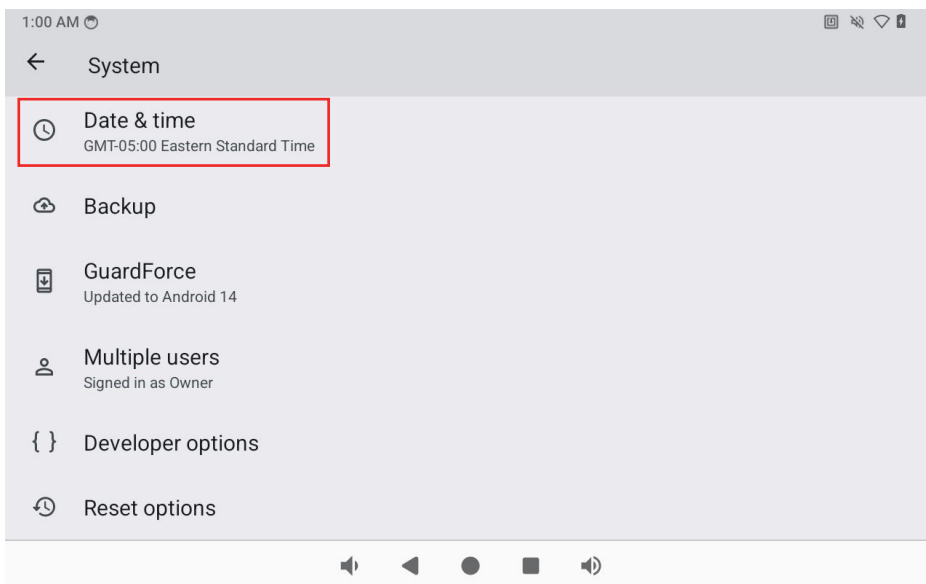




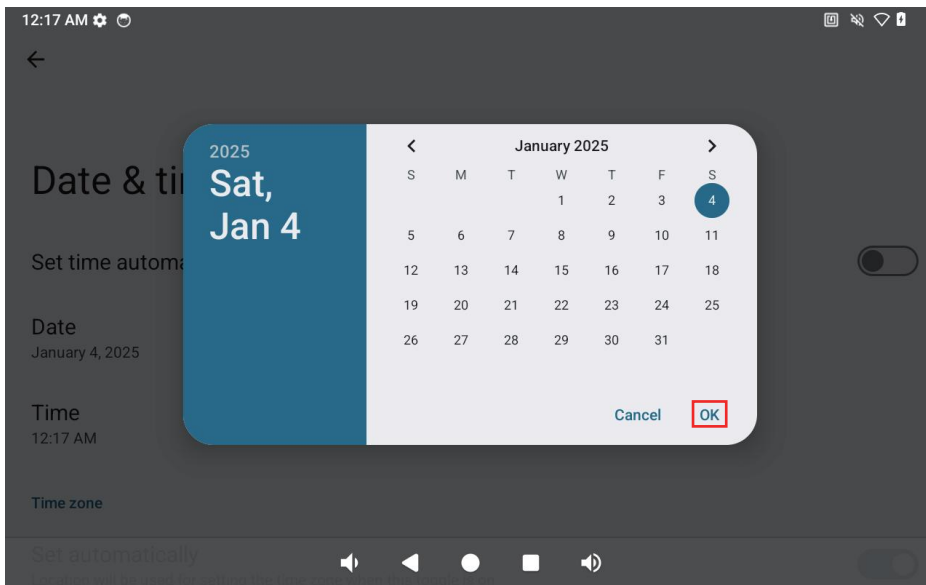
Setting the Date and Time

You are only required to set the time zone or set the date and time if the wireless LAN does not support Network Time Protocol (NTP) or when not connected to a cellular/wireless network.

1. Go to **Settings**.
2. Touch **System > Date & time**.

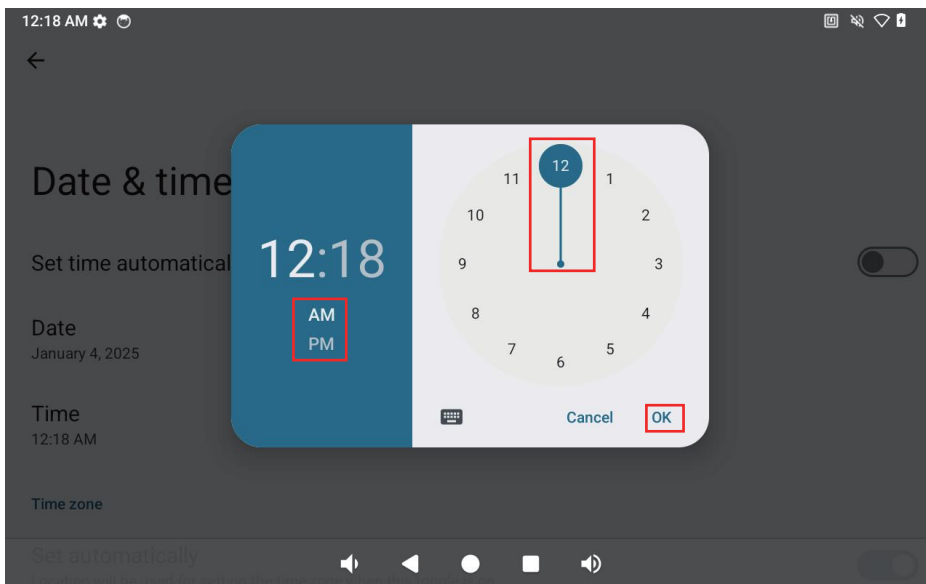


3. Touch **Date** to select the date in the calendar, touch **OK**.



4. Touch **Time**.

- Touch the green circle, drag to the current hour, and then release.
 - Touch the green circle, drag to the current minute, and then release.
 - Touch **AM** or **PM**.
5. Touch **OK**.



Notifications

Introduction

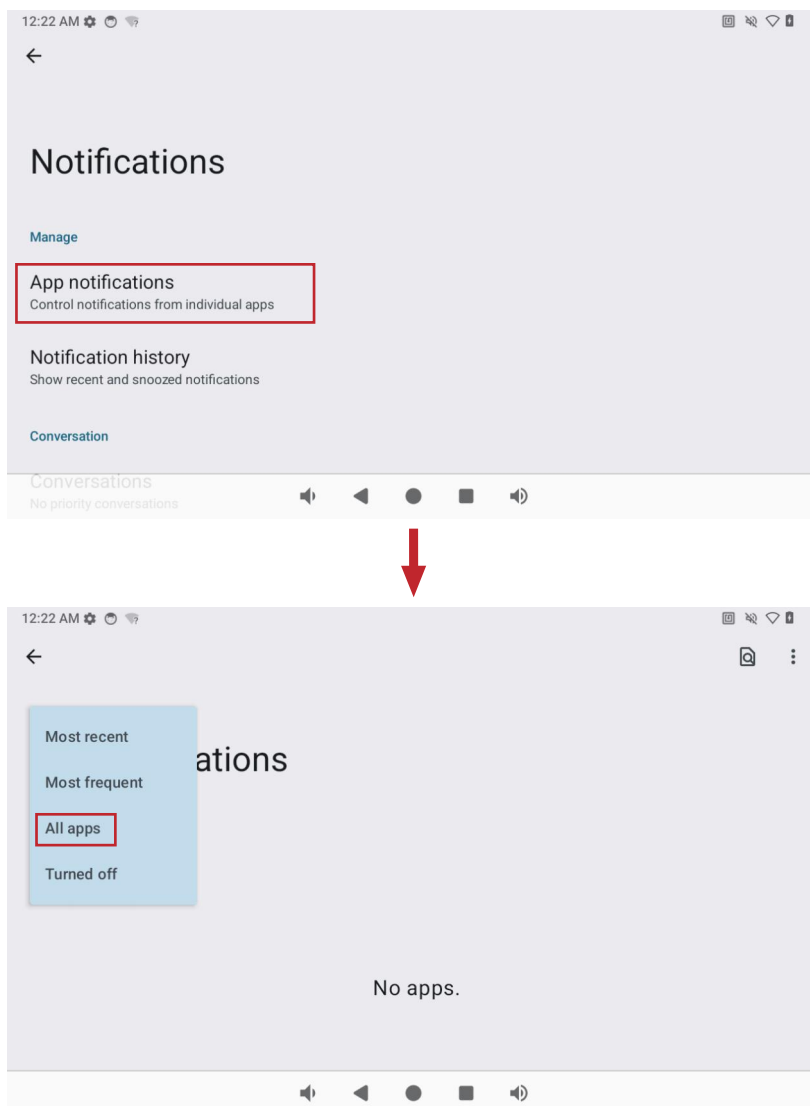
The user can configure notifications for the device and for specific apps. Device & app notifications settings allow the user to configure how notifications occur on the device. App settings allow the user to configure how notifications for a specific app occur.

1. To view Device & app notifications settings, touch **Settings** > **Notifications** > **Device & app notifications**.
2. To view app notifications, **Settings** > **Notifications** > **App notifications**, and then select an app.

Setting App Notifications

Configure the notifications settings for a specific app.

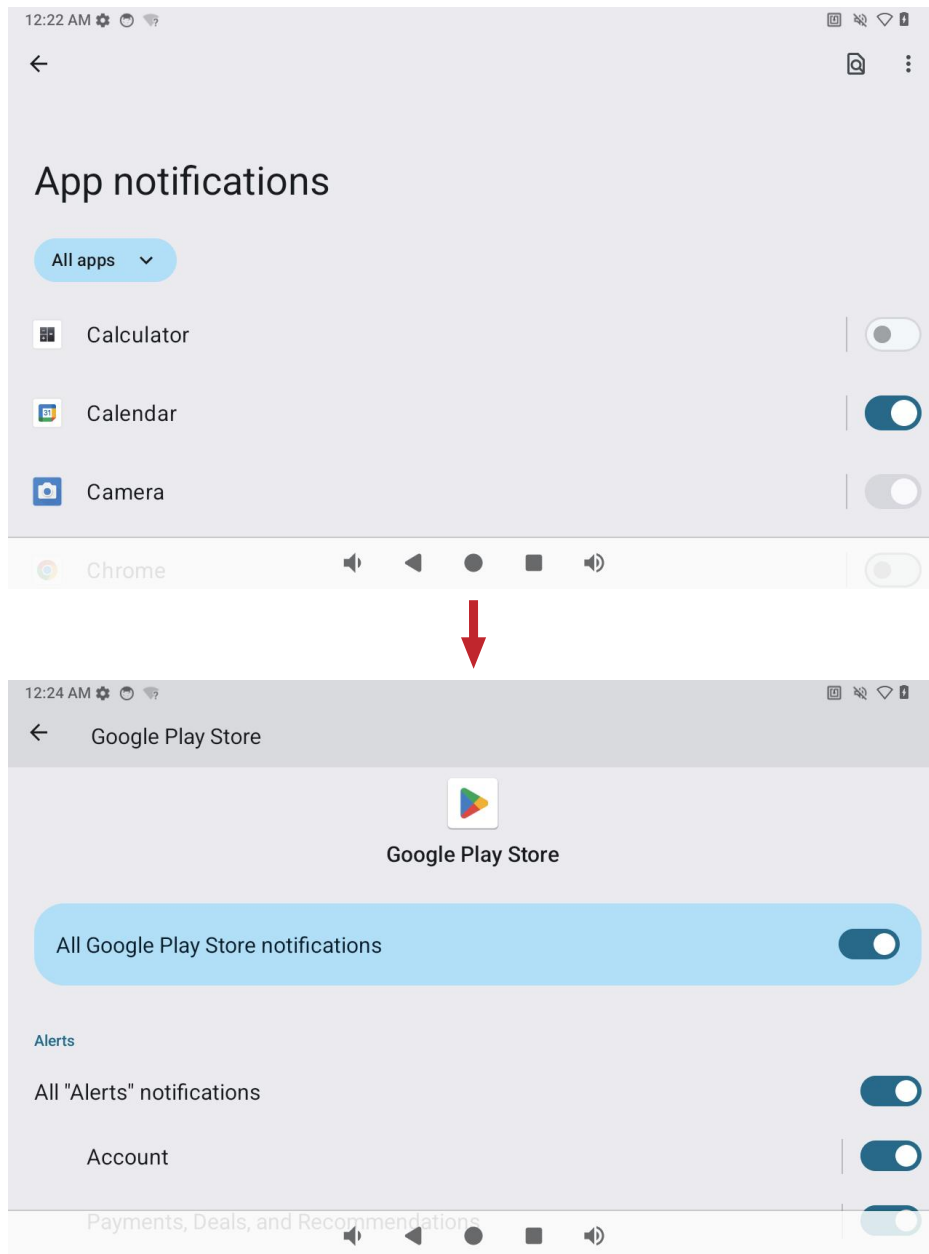
1. Go to **Settings**.
2. Touch **Notifications**.
3. Touch **App notifications** > See **All apps** . The App info screen displays.



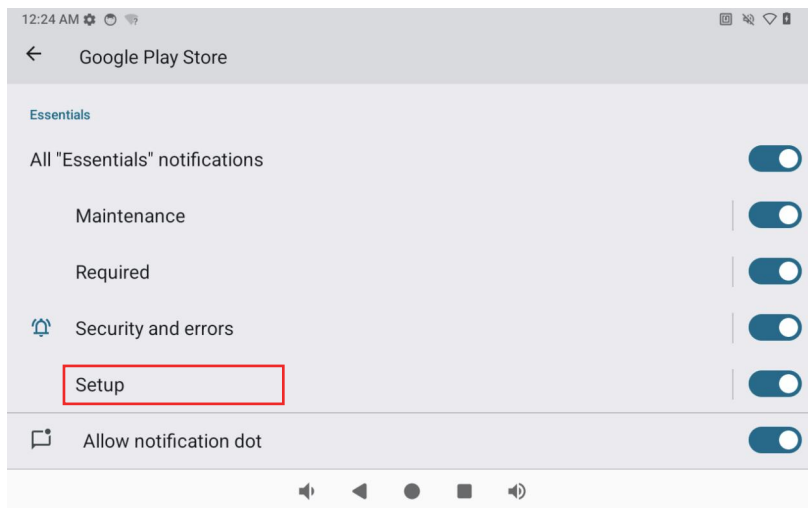
4. Select an App.

5. Touch **Notifications**.

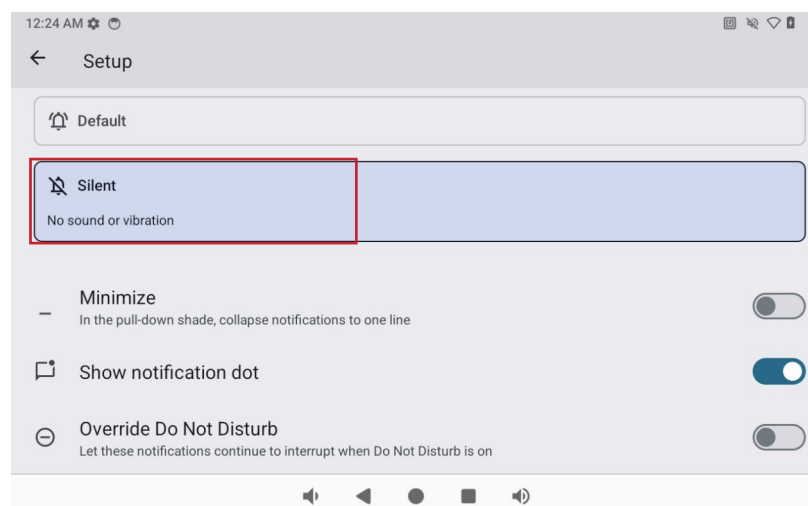
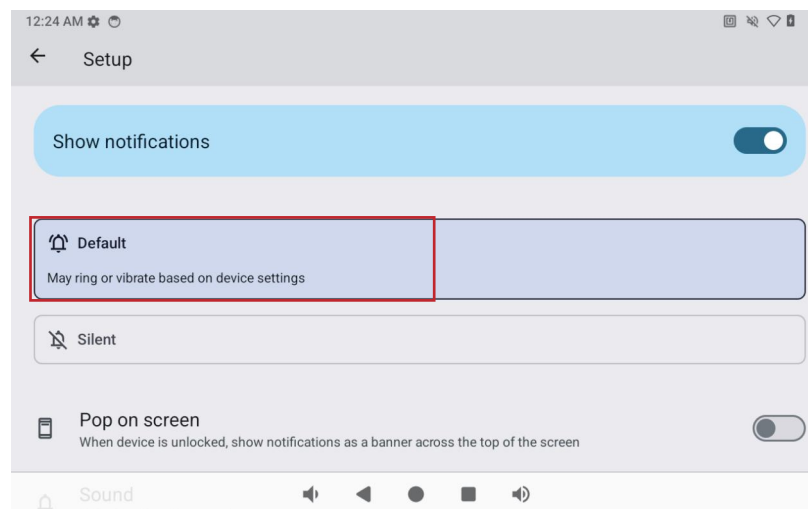
Options vary depending on the app selected.



6. Select **Setup**: Show notifications - Select to turn all notifications from this app on (default) or off. Touch a notification category to display additional options.



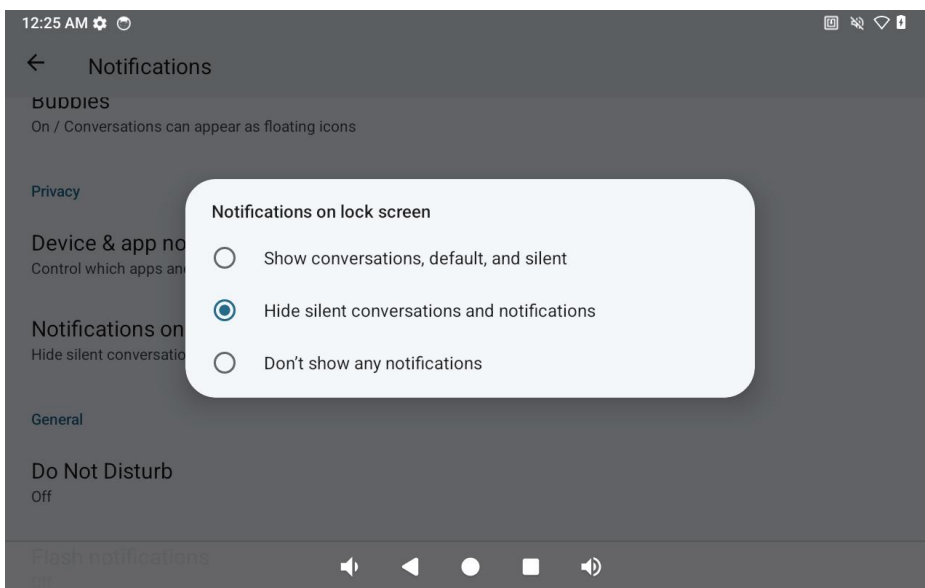
- Pop on screen - Allow notifications from this app to pop notifications on the screen.
- Sound - Allow notifications from this app to make sound.
- Show notification dot - Allow notifications from this app to add a notification dot to the app icon.
- Override Do Not Disturb - Let these notifications continue when Do Not Disturb is on.
- Silent - Do not allow notifications from this app to make a sound or vibration.
- Minimize - In the Notification panel, collapse notifications to one line.



Controlling Lock Screen Notifications

Control whether notifications can be seen when the device is locked.

1. Go to **Settings**.
2. Touch **Notifications**.
3. Touch **Notifications on lock screen** and select one of the following:
 - Show conversations, default, and silent.
 - Hide silent conversations and notifications.
 - Don't show any notifications.



Applications

Introduction

Apart from the standard pre-installed Android applications, the following table lists MEFERI-specific applications installed on the device.

Installed Applications

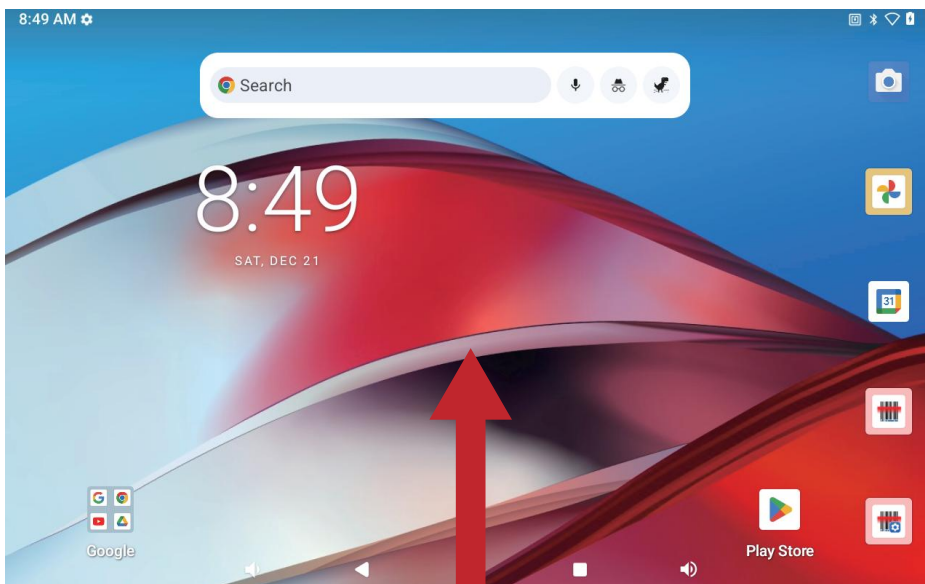
Icon	Description
	Calculator - Provide basic and scientific calculating functions.
	Calendar - View and manage calendar events.
	Camera - Take photos and record videos.
	Chrome - Access the network.
	Clock - Set the alarm and timer.
	Drive - Cloud Drive to store files
	Files - Organize and manage all the files in the device.
	Gmail - Receive and send e-mails.
	Google - Search engine.
	Google TV - Google smart TV
	Meet - Videoconference.
	Keep Notes - Google App Notes.
	Photos - View or edit photos in the device and microSD Card.
	Play Store - Download apps developed with the Android SDK and distributed by Google.
	Settings - Configure MC45.
	Sound Recorder - Record audio files.
	YouTube - Upload original content and share your videos.
	Contacts - Manage contact information.

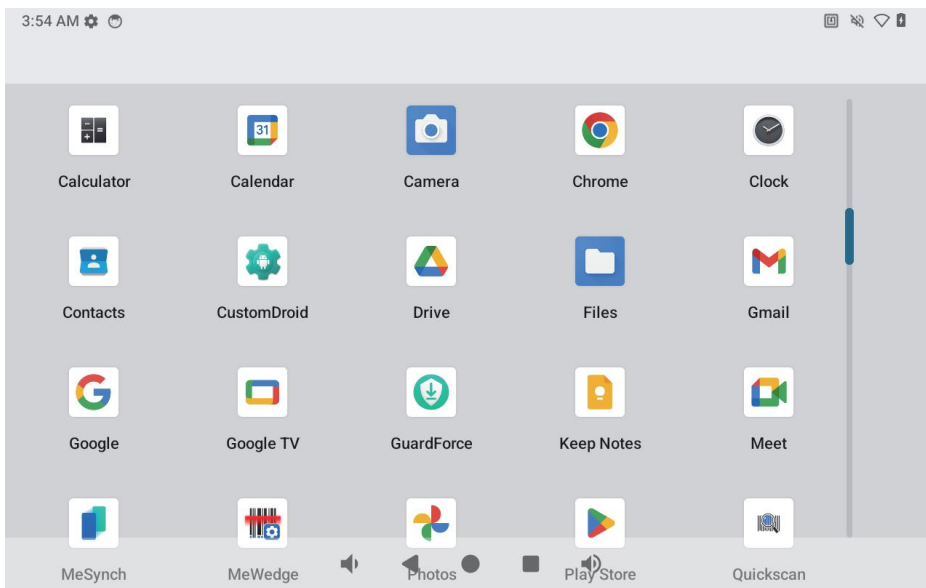
	YT Music - Play audio files online or stored on your device.
	MeSynch - Enables to copy device settings to other devices with just one scan of a barcode.
	MeWedge - Configures a set of scanning head parameters for each application.
	ScanEdge - Configures the settings of the scanning head parameters.
	CustomDroid - Installing your custom functions for the Android OS.
	Unlockdemo - Scan any barcode to unlock a sample APP for CIAO, which can be customized according to customer needs
	QuickScan - Shoppers scan items to view real-time details such as price, weight, barcode, and product descriptions, all fetched directly from the retailer's database.
	GuardForce - Android provides regular updates with the latest security patches

Accessing Apps

Access all apps installed on the device using the APPS window.

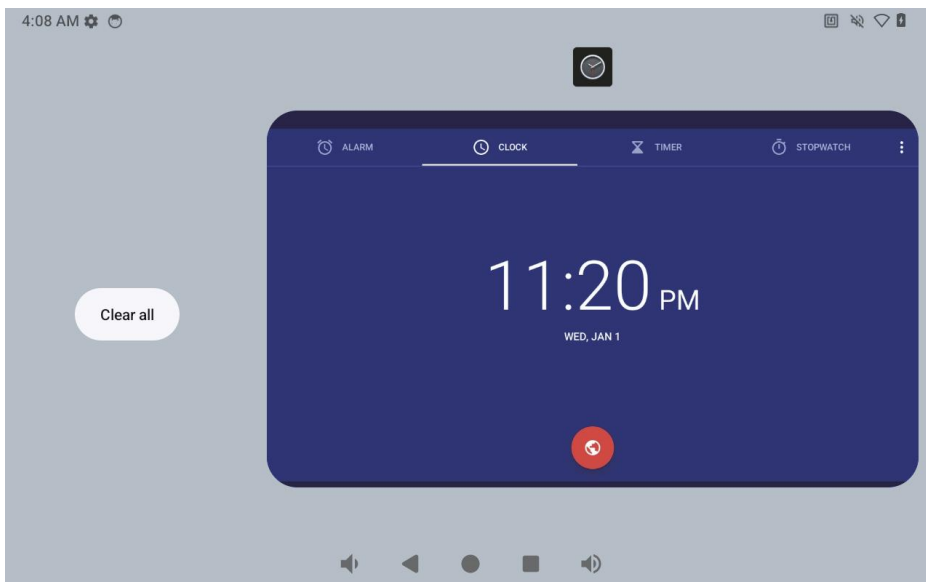
1. On the Home screen, swipe up from the bottom of the screen.
2. Slide the APPS window up or down to view more app icons.
3. Touch an icon to open the app.





Switching Between Recent Apps

1. Touch **Menu** .
2. Slide left or right the screen to find any app accessed lately.
3. Slide up to clear apps lately accessed from the background.
4. Tap the **Clear All** to clear all the lately accessed apps from the background.
5. Tap apps to be switched to switch apps.



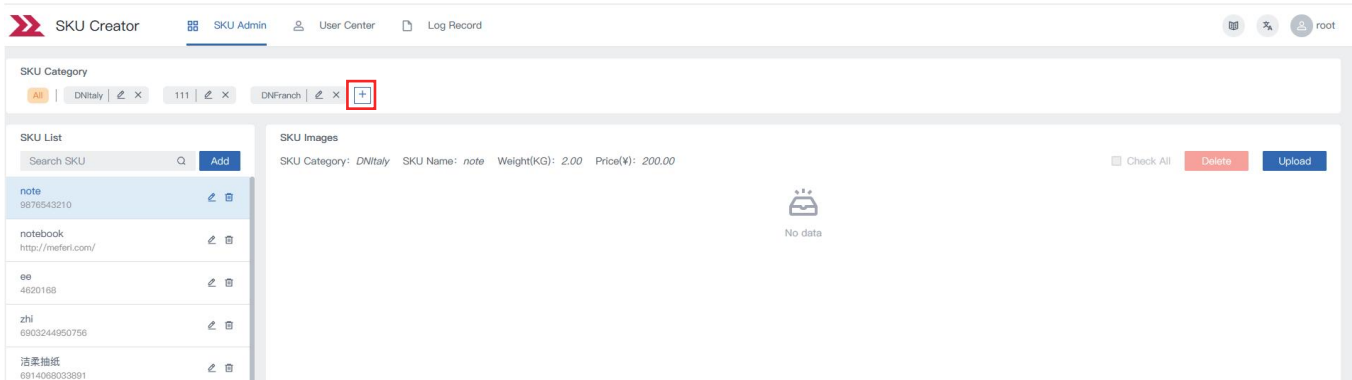
Steps to Upload Products to the Backend Server

1. Log in according to the server link we deployed (sku.meferi.com:29999).

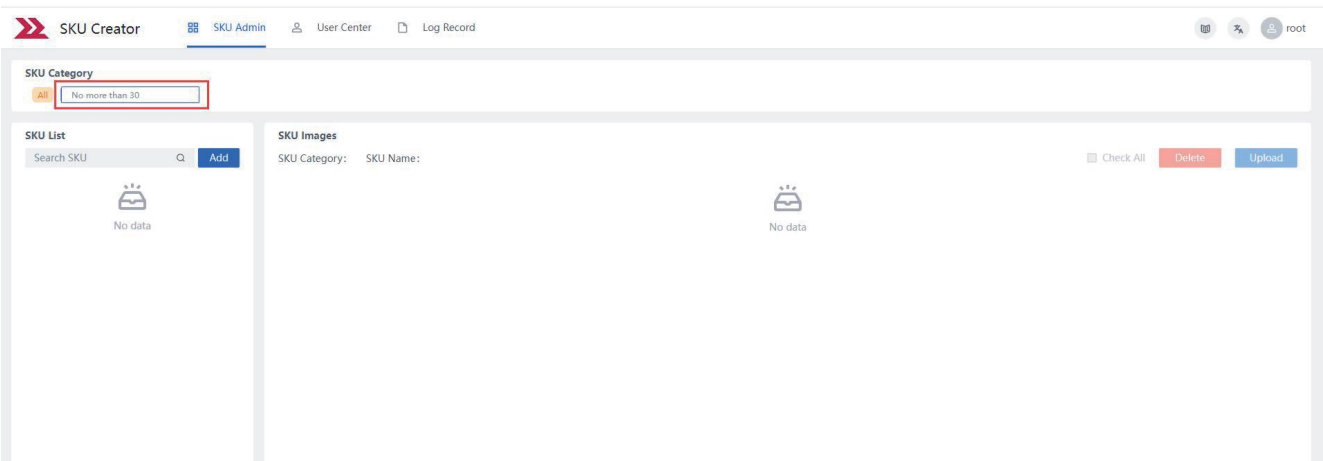
- SKU backend URL (We need to deploy it for you remotely):

- Account:
- Password:

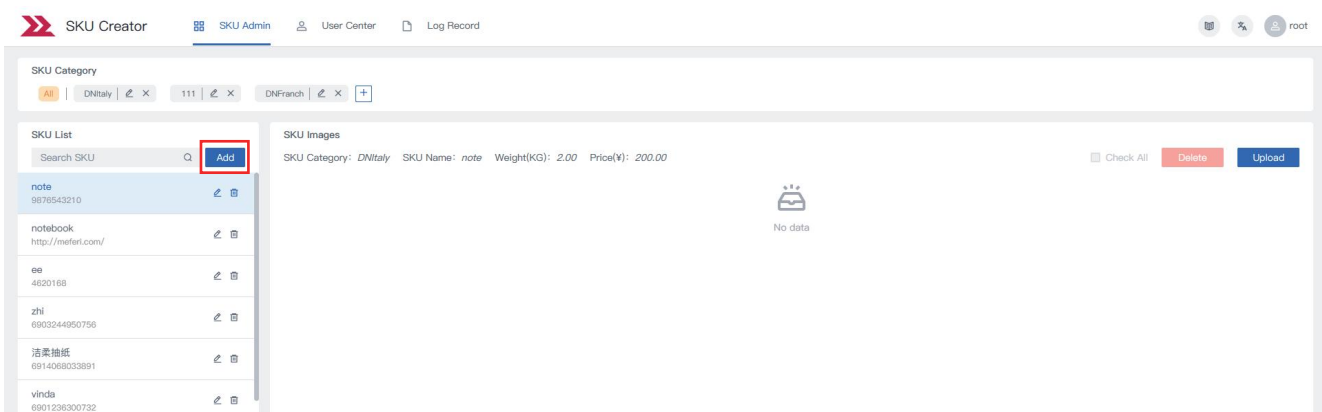
2. Add SKU Category:



3. Enter a category name:



4. Click Add in SKU List to add product details.



5. Enter the product's Barcode data, product name, product category, product information description, product image, and then click Save

The screenshot displays the MEFERI SKU Creator application. A modal window titled 'Adding' is open, allowing users to input product details. The form includes the following fields:

- Barcode**: A text input field with a character count of 0/30.
- SKU Name**: A text input field with a character count of 0/30.
- SKU Category**: A dropdown menu with the placeholder text 'Please select SKU Category'.
- Weight**: A text input field with a unit selector set to 'KG'.
- Price**: A text input field with a unit selector set to '¥'.
- SKU Info**: A text area for product information, with a maximum of 200 characters (0/200).
- SKU Images**: A section with a '+' button to add images and an 'Upload Count: 0' indicator.

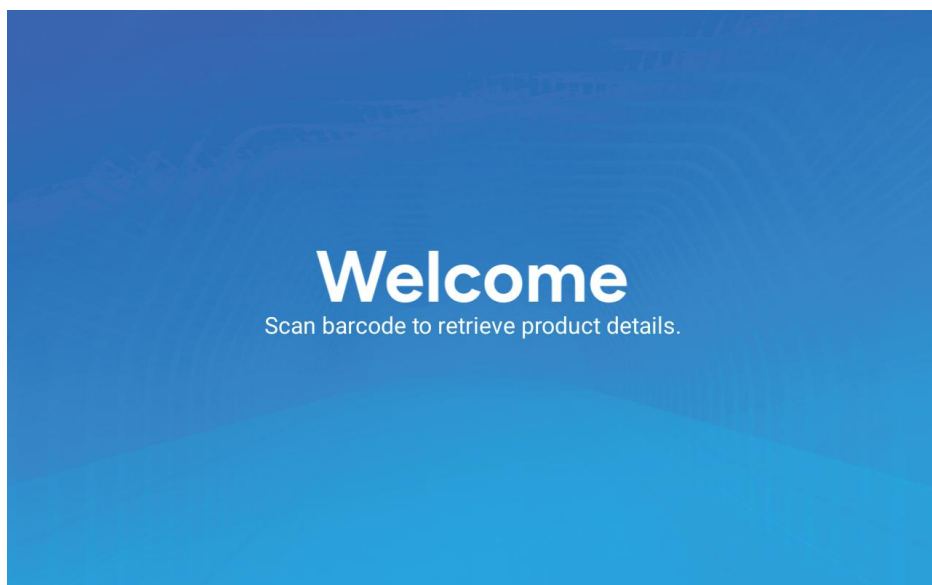
At the bottom of the modal are 'Cancel' and 'Save' buttons. The background interface shows a list of existing SKUs on the left and a 'SKU Images' section on the right.

This screenshot shows the 'SKU Images' section of the MEFERI SKU Creator. The 'Adding' modal is no longer present. The interface displays the following information:

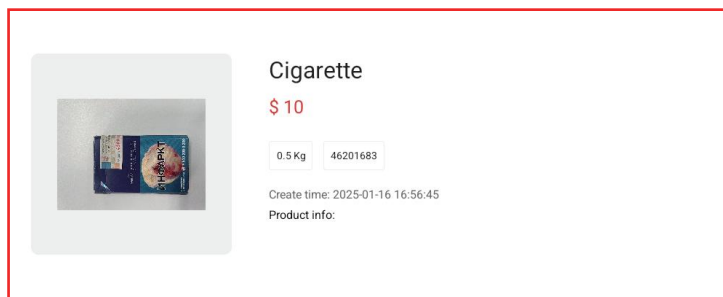
- SKU Category**: A filter bar with options like 'All', 'DNItaly', and '111'.
- SKU List**: A table listing existing SKUs with columns for SKU Name, SKU Category, Weight(KG), and Price(¥).
- SKU Images**: A section showing three uploaded product images for the selected SKU (SKU Name: ee, Weight: 3.00, Price: 12.00).
- Actions**: Buttons for 'Check All', 'Delete', and 'Upload' are located at the bottom right of the image section.

Using Quickscan

1. You need to be connected to the Internet when using it.
2. You need to upload the product information to the SKU website and scan the corresponding barcode before the product information appears.
3. It does not support simultaneous use with two other scanning apps (need to clear the background).
4. Open the **Quickscan App**.



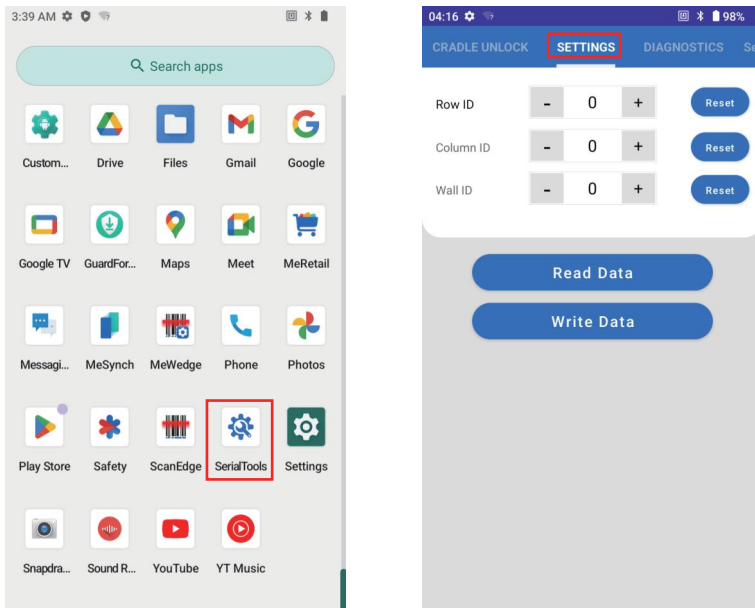
5. Align the product barcode with the scanner and once successfully read, the MC45 will display detailed information about the scanned product.



Using Unlockdemo

1. Unlock: Unlock by connecting to MC45

- Before placing CIAO into the Charging Cradles, ensure it is connected to Wi-Fi, and make sure both CIAO and MC45 are connected to the same Wi-Fi network.
- After CIAO successfully connects to Wi-Fi, put it into the charging cradles, open the SerialTool application, click the SETTINGS page, set the ROW ID, write the ID.



2. Open **UnlockDemo** on CM45, scan the barcode, and take out the CIAO with the highest power from the charging cradles.



Data Capture

Introduction

MC45 supports data acquisition in the following methods.

- Hard decoding: MEFERI SE4030, MEFERI SE4070.
- Soft decoding: Zebra SE4770.

Scan engine (Take SE4770 as an example)

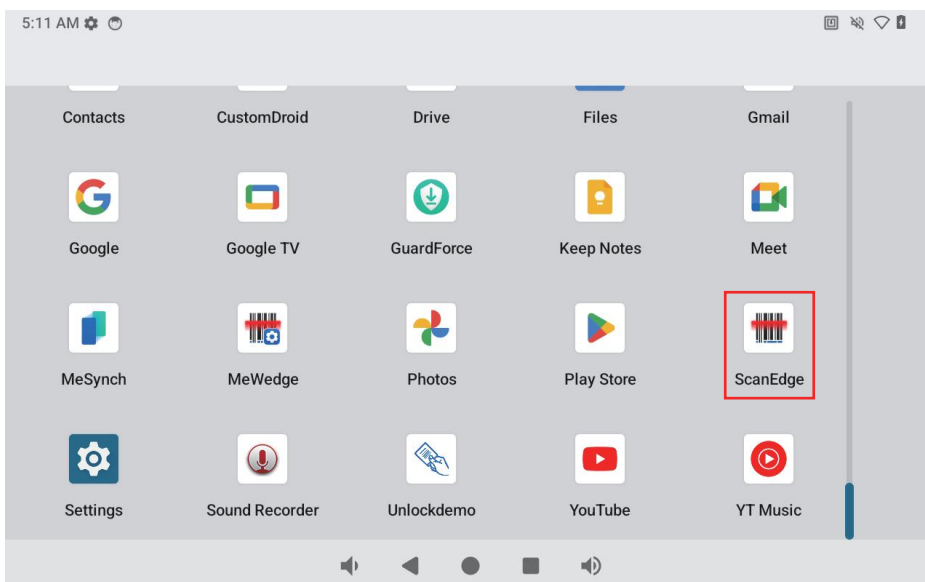
- 2D scan engine can read various 1D/2D bar codes and 360° read various bar code systems, including the most prevalent linear bar code, postal code, PDF417, QR, DATAMATRIX, etc.
- By scanning techniques, 2D scan engine takes a photo for a bar code, saves the generated image in memory, and executes a top software decoding algorithm to extract bar code data from the image.

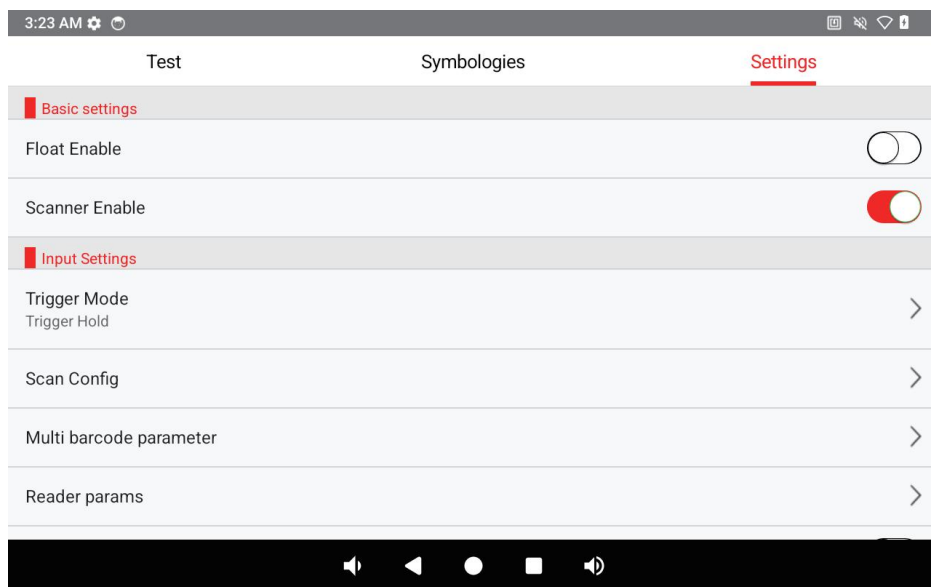
Scan Settings (Take SE4770 as an example)

1. **ScanEdge**: can be tested and set, this setting is for the scan head.
2. **Mewedge**: scan settings for a certain application, for example: open continuous scanning in a certain APP, continuous scanning does not work outside this APP, only in the APP.

Method 1-ScanEdge

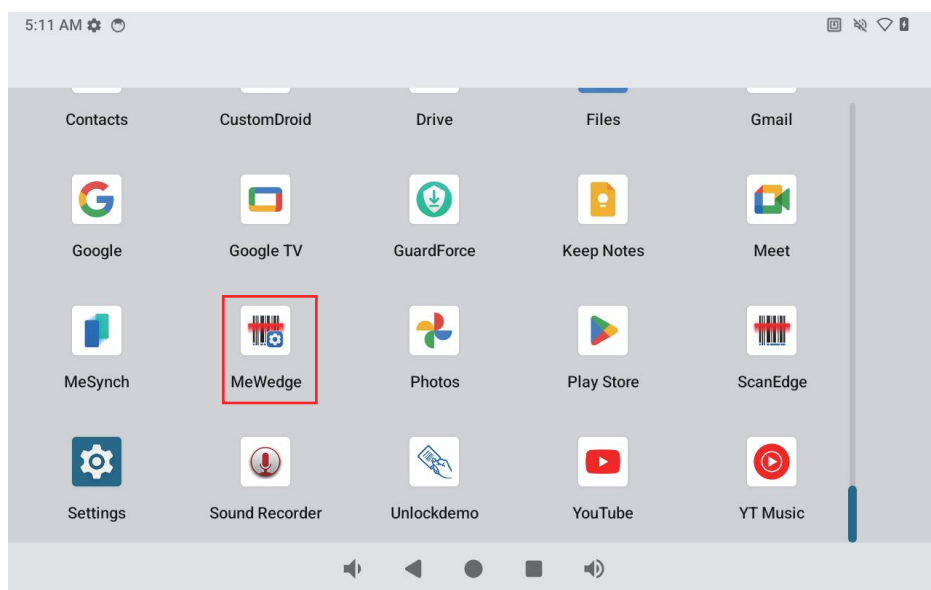
1. In the home screen, pull up the screen to enter the app center interface, Select **ScanEdge**.



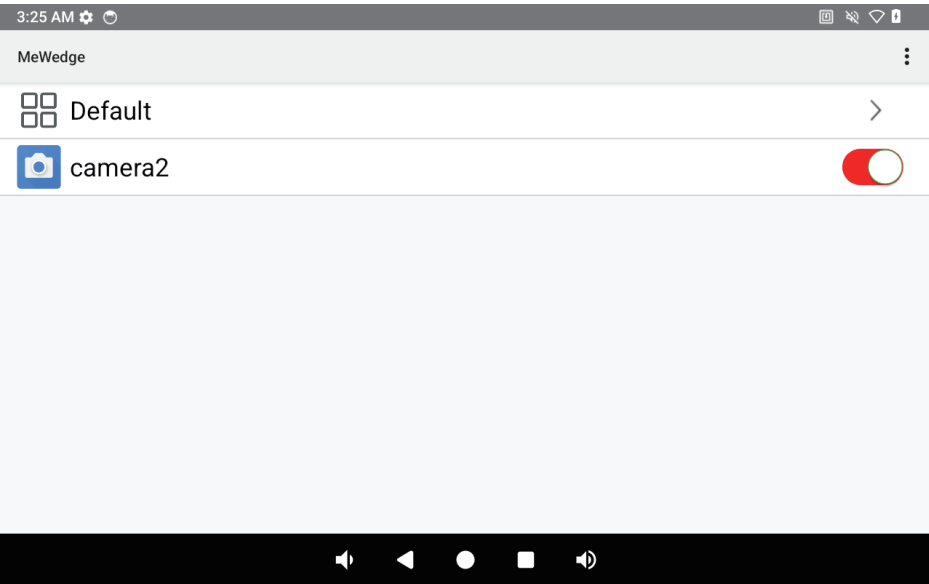
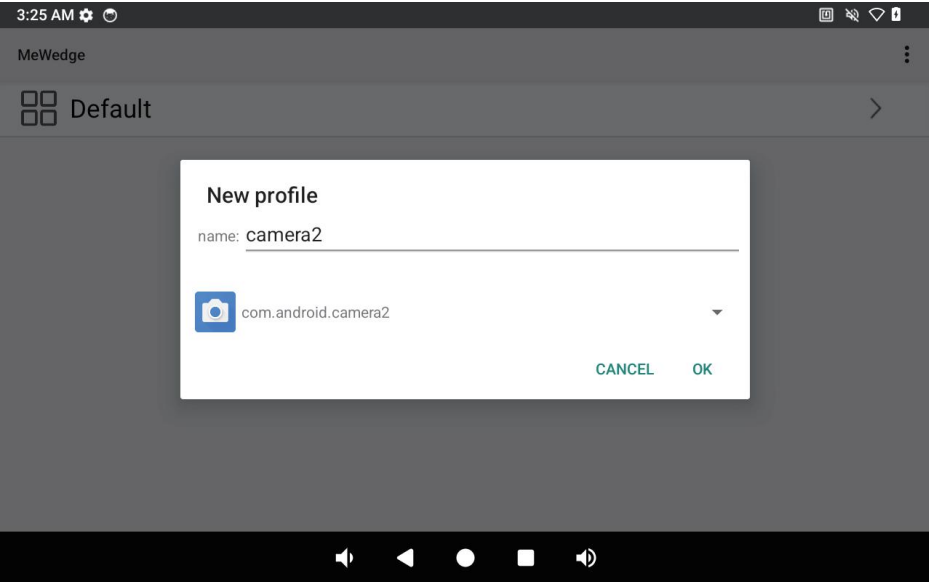
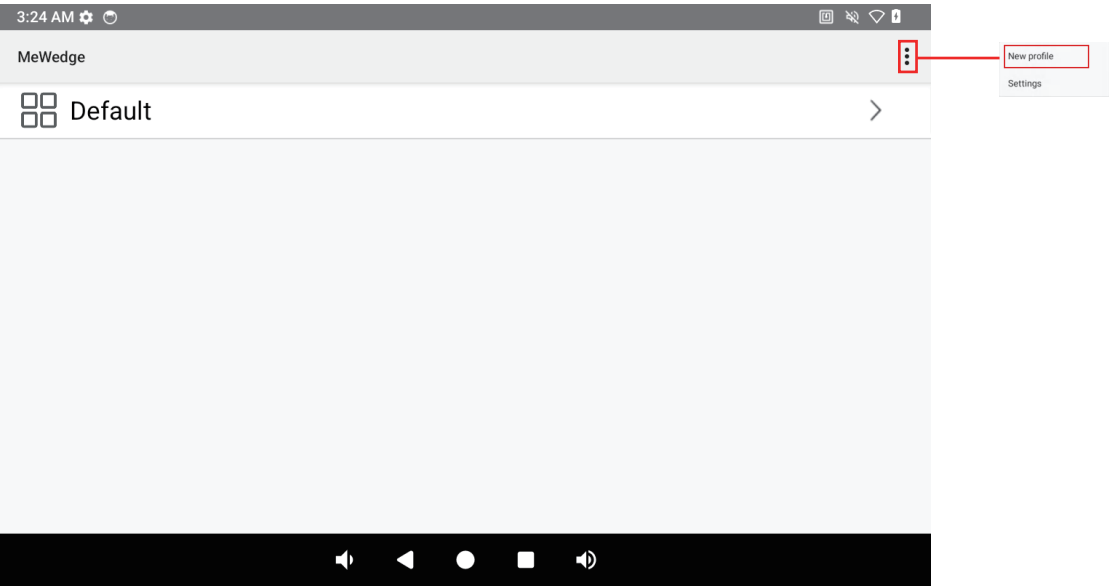


Method 2-Mewedge

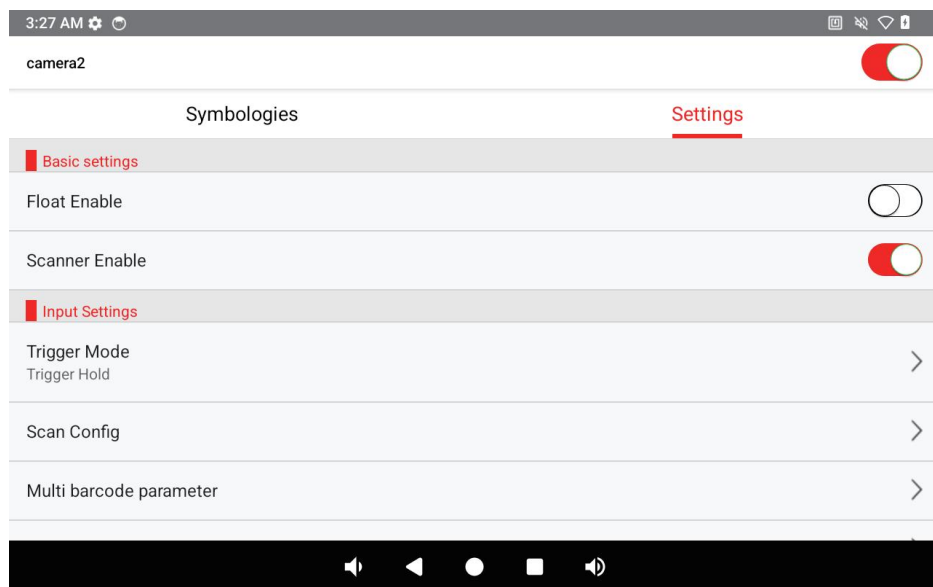
1. In the home screen, pull up the screen to enter the app center interface, Select **Mewedge**.



2. Create a new one and select the APP you want to set up.

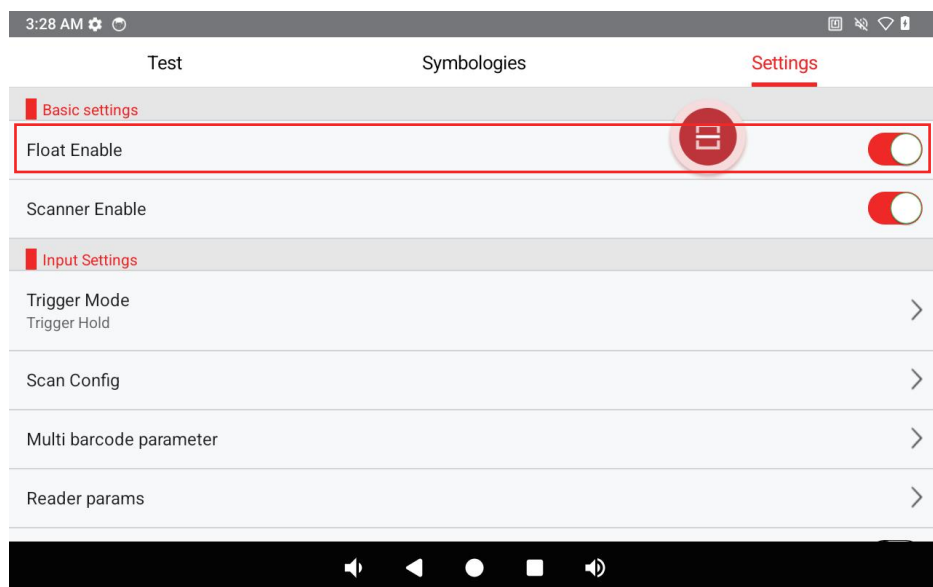


3. Apply scan settings.



Floating Action Button

Open the virtual key scanning tool on the desktop, which is available for dragging at will and touching to simulate the key scanning function.



Trigger Mode

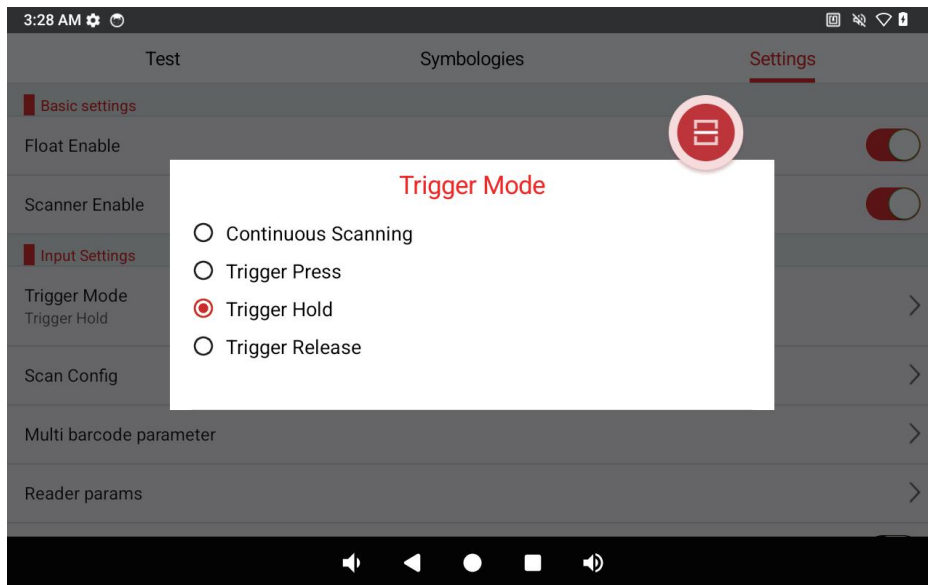
Auto mode - manually trigger the scanning function. Press the scanning key and laser light or supplementary light will be shown.

The light will not go out until decoding is completed or scanning times out.

Continuous mode - manually trigger the scanning function. In the continuous scanning mode, the scanning laser or supplementary image light will not go out after decoding. Instead, decoding will sustain.

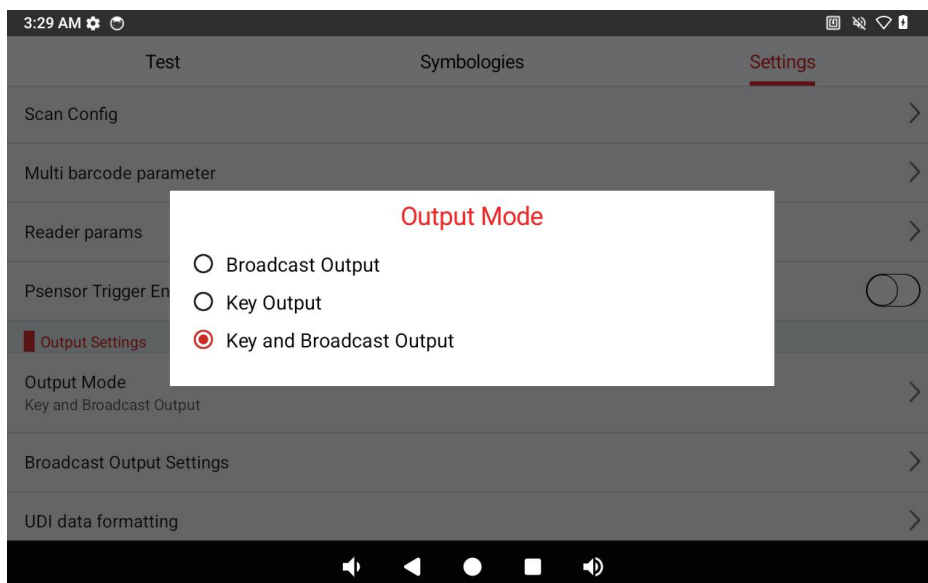
Manual mode - manually trigger the scanning function. Press the scanning key and laser light or supplementary light will be shown.

Release the key and the light will go out. In addition, the scanning light will also go out after decoding.



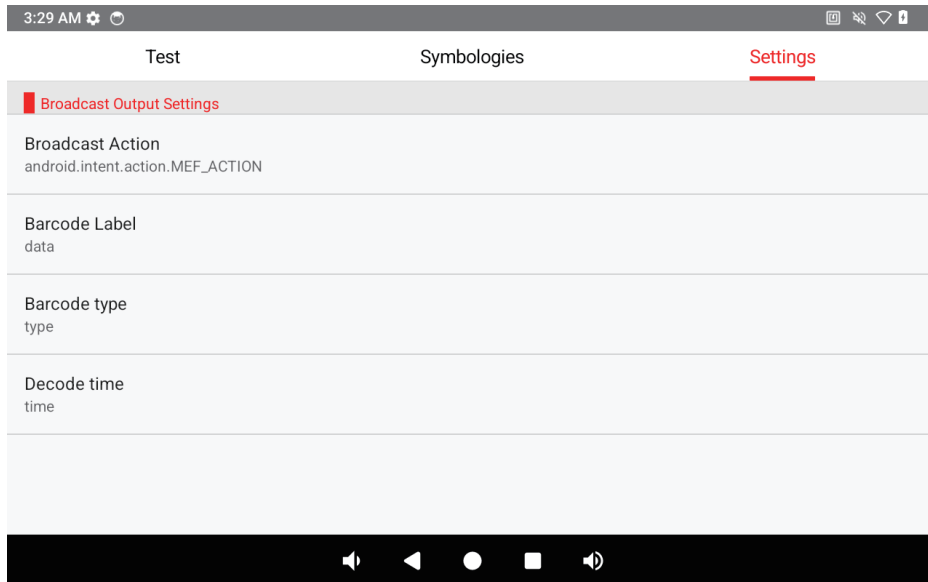
Output Mode

1. Broadcast Output.
2. Key Output.
3. Key and Broadcast Output.



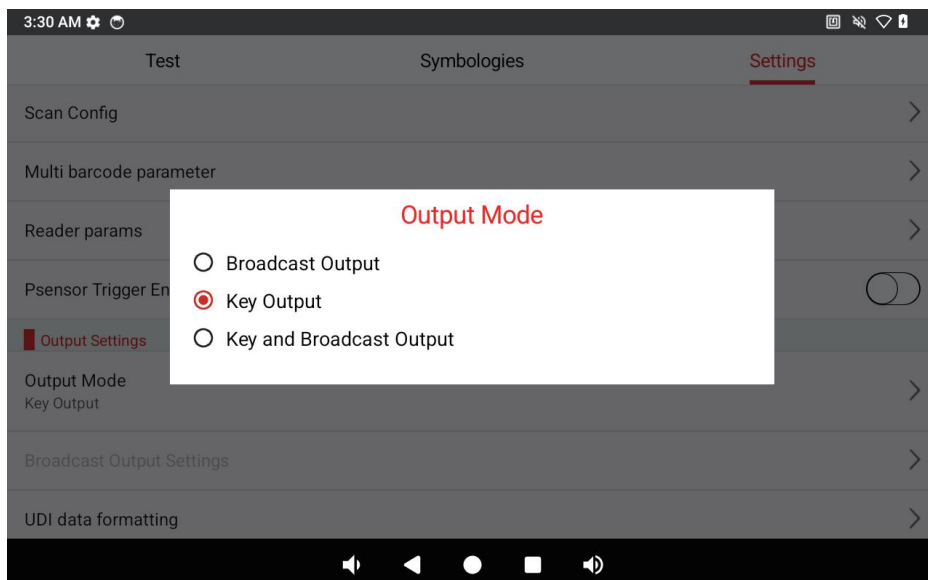
Broadcast Output Settings

Set broadcasting via a corresponding app to receive tag and motion data of the designated broadcast. If the scanned data match the app's broadcast tag and motion (tag and motion are editable), the data will be directly received by the Broadcast Receiver. Any intent transfer value may be separately output or handled in the background.



Output by keyboard

Check this mode and the scanning results will be output to the app focus edit box in the foreground by keyboard. Cancel checking this mode and output will be done by broadcast.



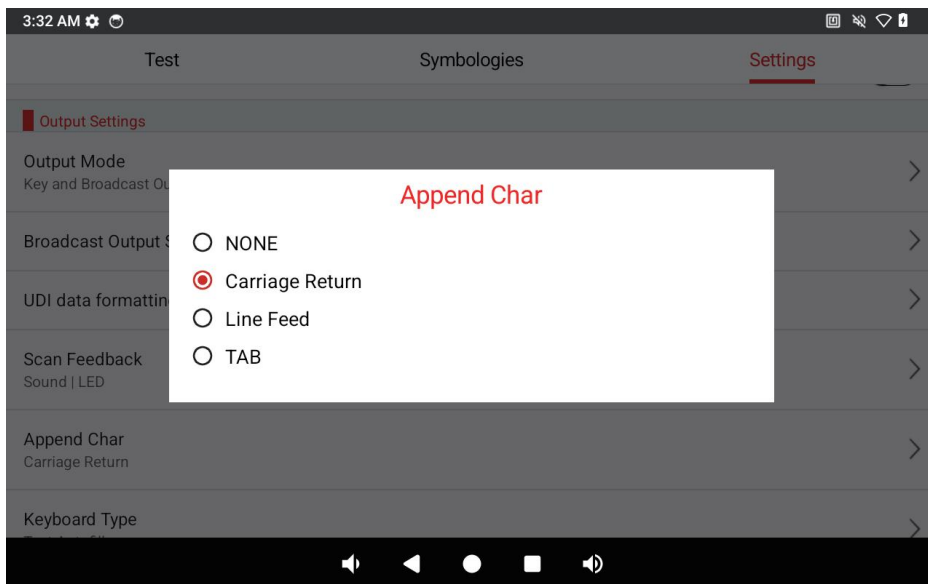
1. **Keyboard Type** - include Auto text mode, Soft keyboard, always use simulated keystrokes, may result in different scanning results, so please choose with caution.

- **Soft keyboard:** If a focus input box arises in any app interface in the foreground, it will directly show all the data, otherwise the device will output scanning results character by character through keyboard simulation.
- **Auto text mode:** the device directly displays all the data in the input box through input method editor simulation.
- **Soft keyboard only:** the device outputs scanning data through Soft keyboard event simulation at any interface.
- **Always Auto text mode:** output through any non-Android input box, e.g., webpage or search box.

2. **Sound Feedback** - set the system's notification tone for scanning, which may be LED, Vibrating or Sound.

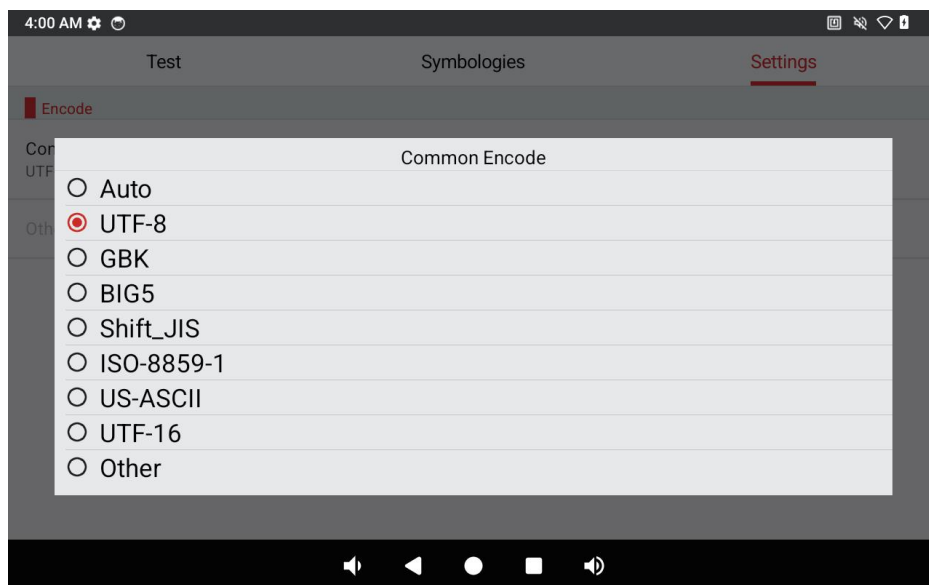
3. **Append Char** - None, Carriage return, Line feed or Tab. Add operational key characters behind scanning results through keyboard simulation.

- **None:** no operation.
- **Carriage return:** add an enter behind scanning results through keyboard simulation.
- **Line feed:** add an OK operation behind scanning results through keyboard simulation.
- **TAB:** add a Tab key operation behind scanning results through keyboard simulation.



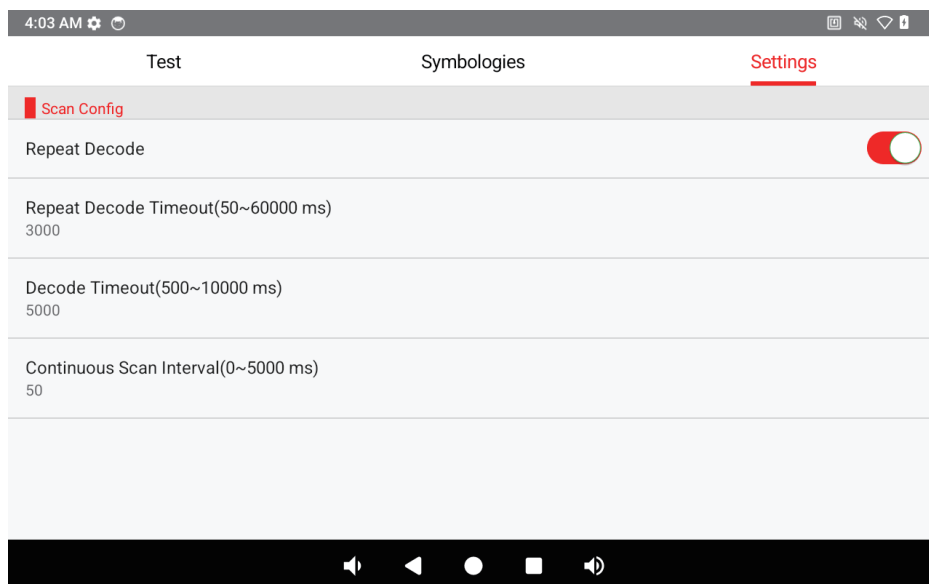
Encode

The encode is UTF-8 by default. This option needs to correspond to the of 2D codes. Any mismatch between the two may lead to code garbling. Please use this function with care.



Other settings

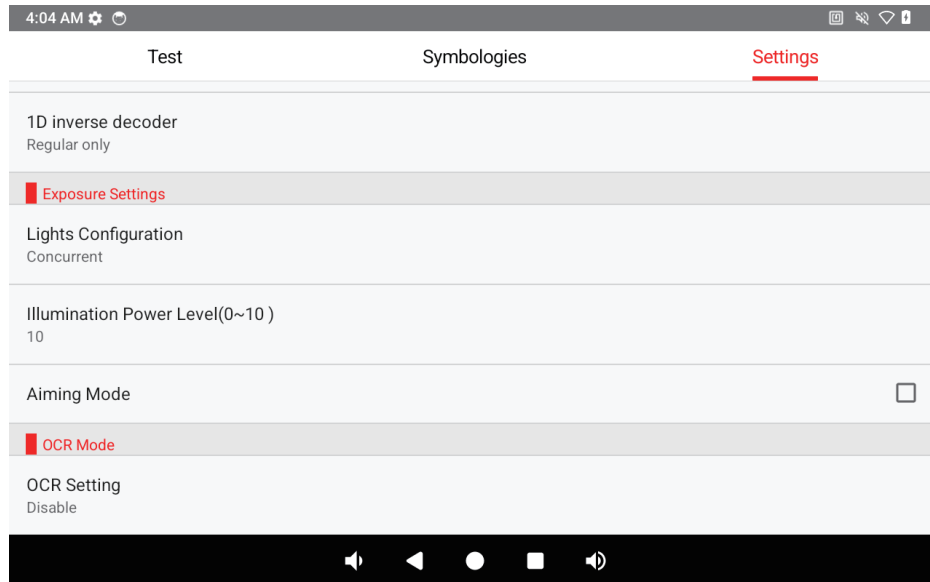
- **Decode Timeout** - laser duration for failing in single scanning, range of 500-10000 ms, 5000 ms by default.
- **Repeat Decode Timeout** - laser duration for failing in single scanning, range of 50-60000 ms, 3000 ms by default.
- **Continue Scan Interval** - laser duration for failing in single scanning, range of 0-5000 ms, 50 ms by default.



Reader params

Exposure Settings

Different scanning heads vary from each other in the settings. SE4770 scan engine is taken as example for illustration.



1. Lights Configuration

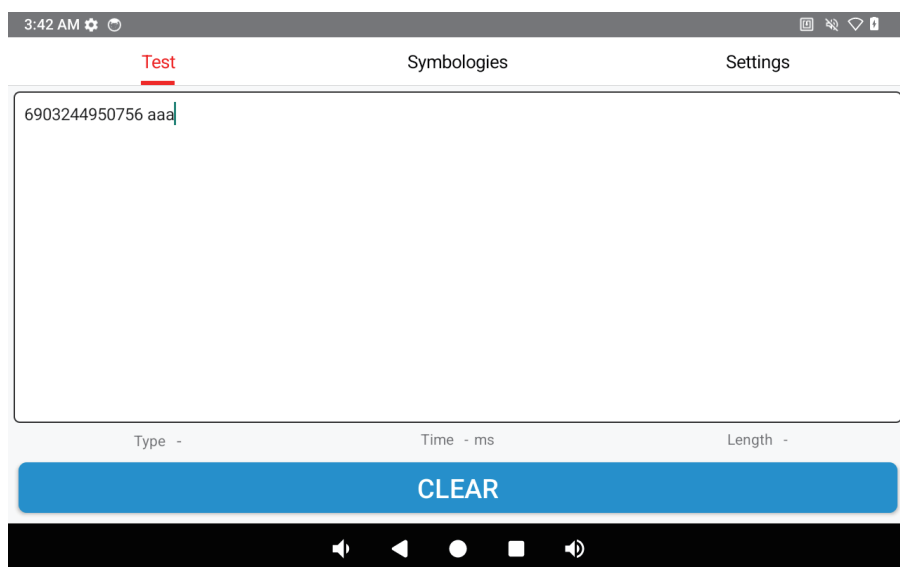
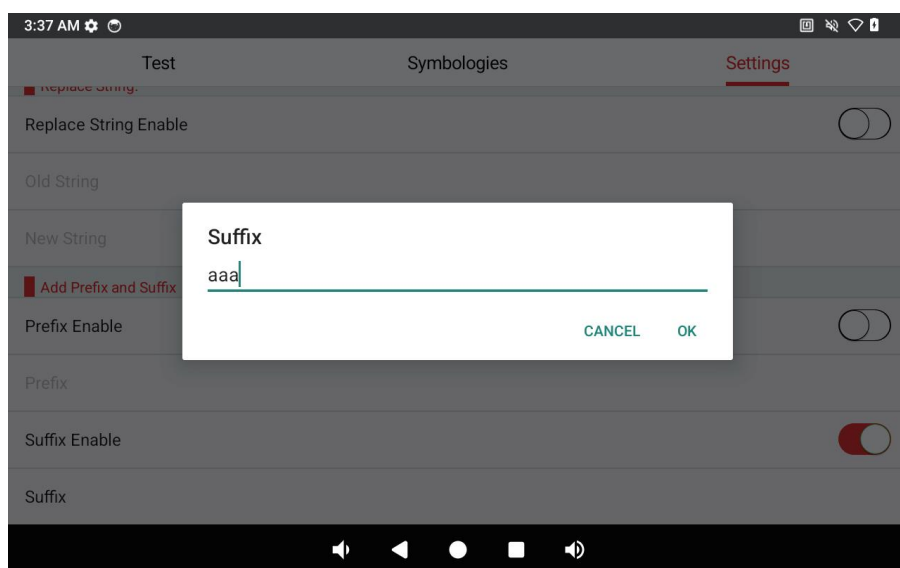
- Illum/Aimer Off: turn off illumination/aimer light.
- Aimer Only: turn on aim light only.
- Illum Only: turn on illumination only.
- Concurrent: turn on illumination/aimer light.

2. Illumination Power Level: 0~10. The higher the value is, the brighter it will be.

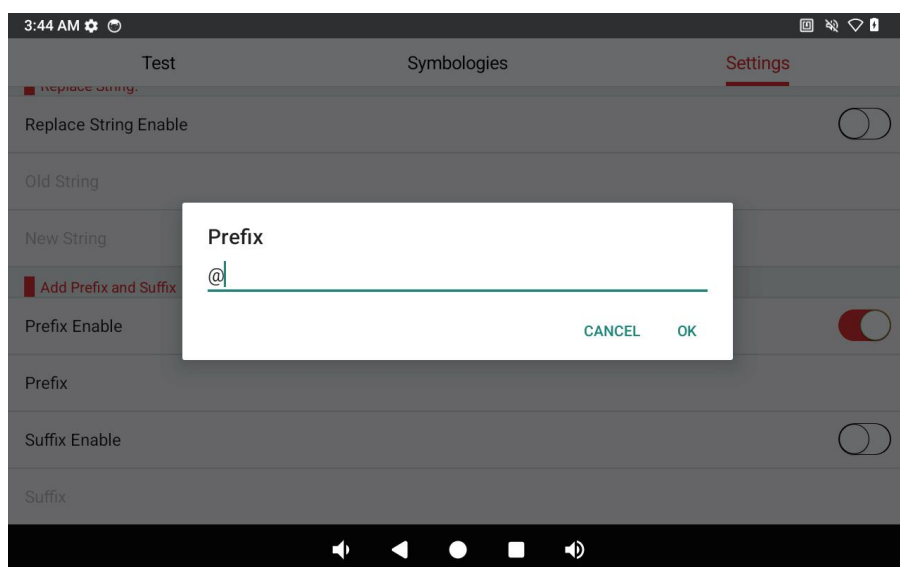
Data Format

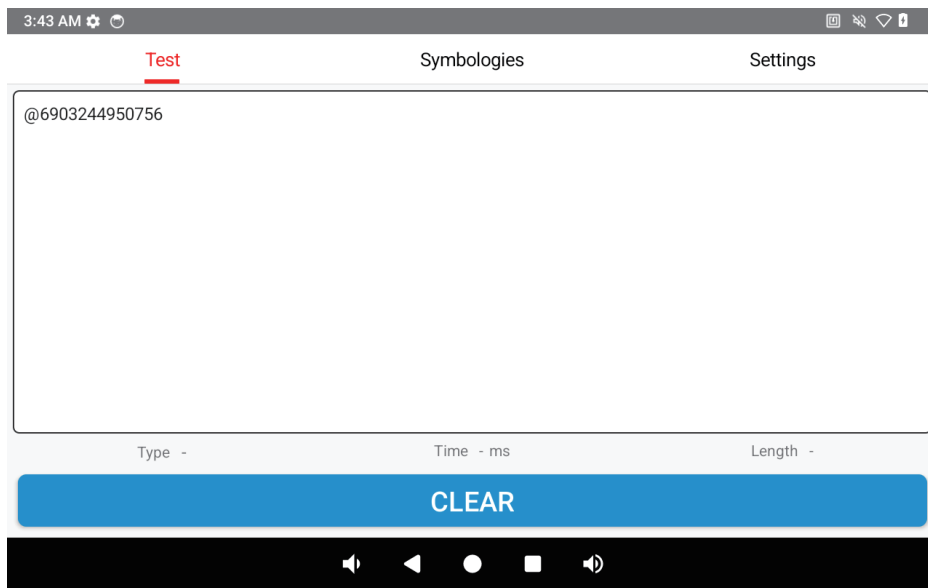
Upon access of bar codes, the system may be available for additional functions: Formatting, Prefix, Suffix, Substitute, App Identifier, or Code Id Type.

1. Tap **Data Format** and select the additional formatting type.
2. **Suffix**: select the mode and modify the suffix content, e.g.



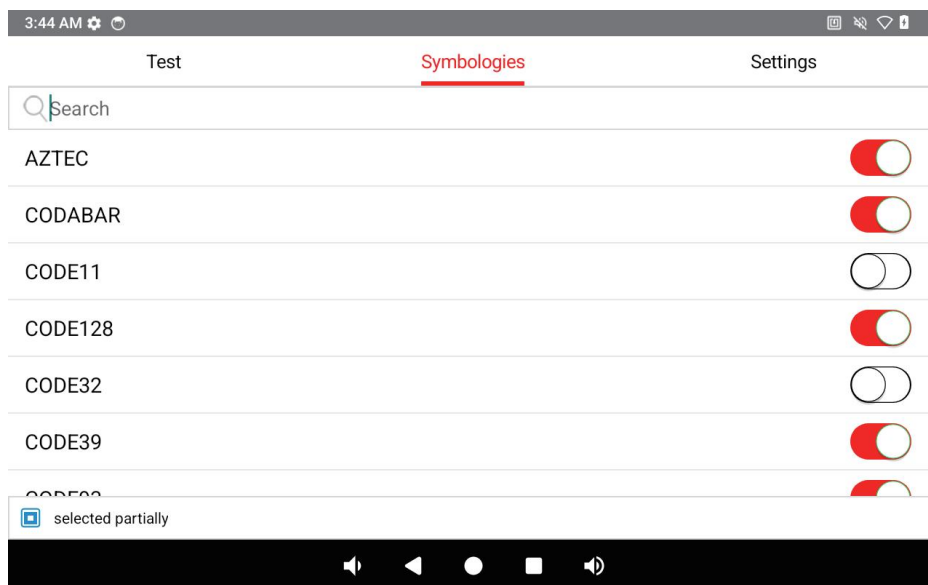
3. Prefix: select the mode and modify the prefix content, e.g.



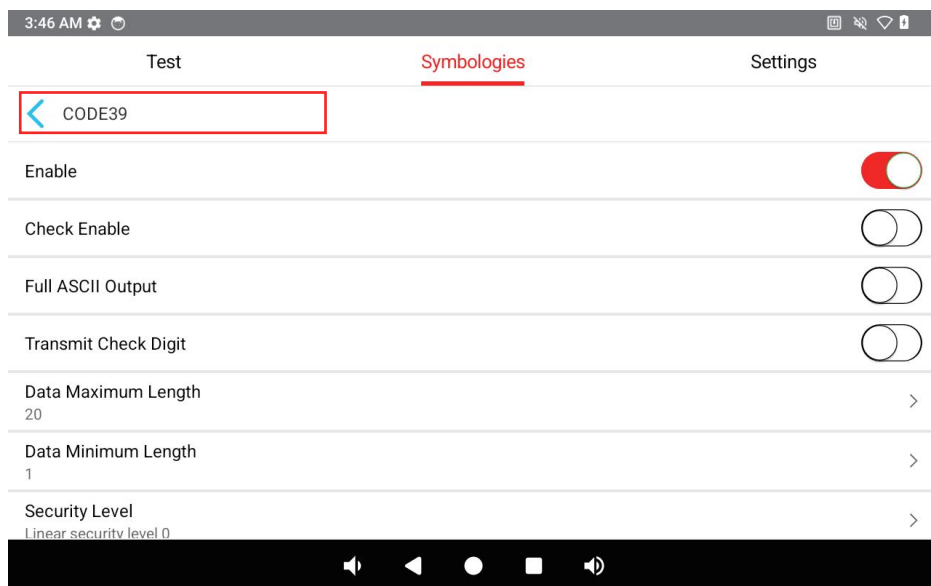
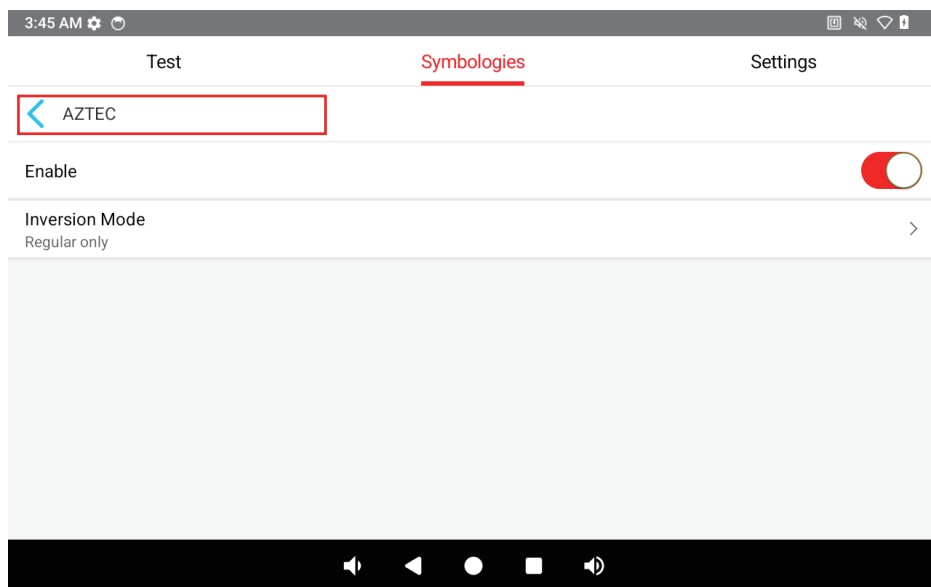


4. **Replace String**: select the mode and modify the former character to be substituted and the substitute character and set the value of the substituted and that of substitute.
5. **Application Identifier**: select the mode and add an app identifier to some bar codes, e.g., Code 128.
6. **App Delimited Identifier**: select the mode and set "(" as the app delimited identifier by default, which may be substituted by any other identifier.
7. **Code Id Type**: select the mode and add a Code Id (Code Id Type None, Code Id Type Aim (add an Aim in front bar codes) or Code Id Type Symbol (add an identifier in front of bar codes)) to some bar codes.

Symbology settings

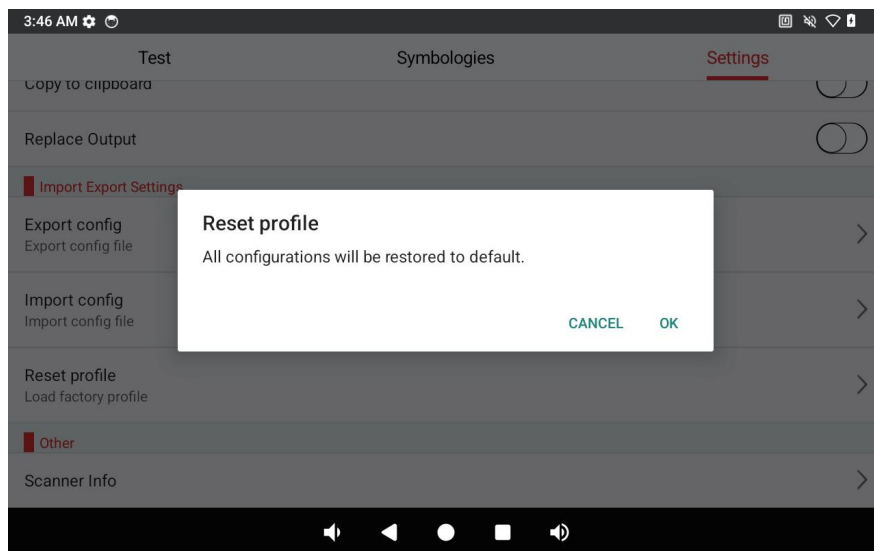
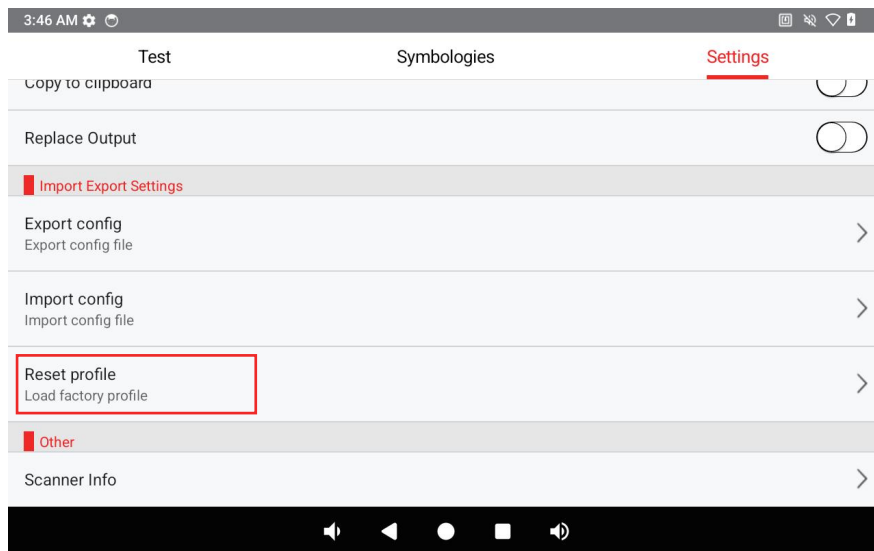


Modify code system type parameters in the list, e.g., bar code length, check bit or transfer character.

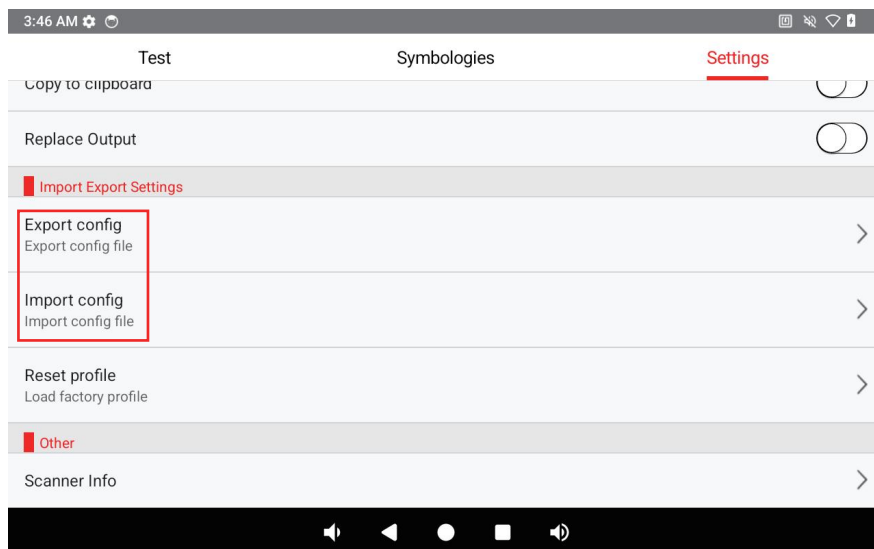


- **Enable:** enable.
- **Data Minimum Length:** minimum length.
- **Data maximum Length:** maximum length.
- **Transmit Check Digit:** check bit in transfer.

Reset



Import config/Export config



Wireless

WLAN

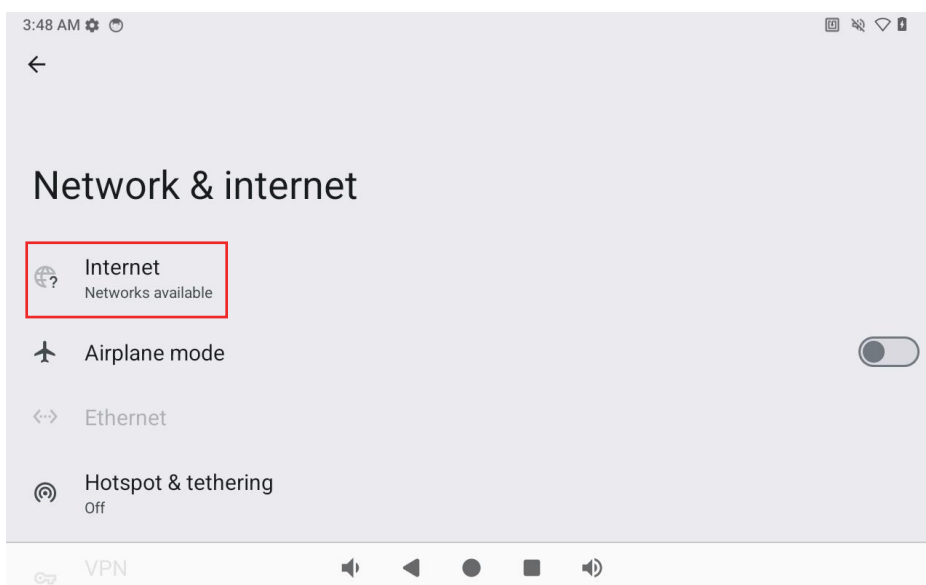
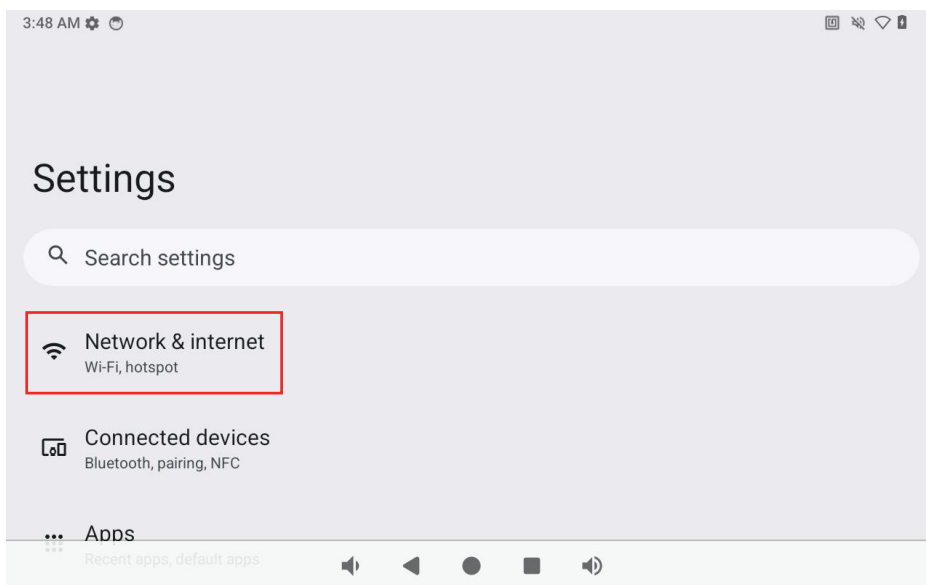
To enable the WLAN function, please operate as following:

Connect to WLAN

After the wireless function is enabled, MC45 will automatically display all the available wireless networks nearby in the wireless network list. To connect to a certain wireless network, please click the network's SSID in the list and tap Connect.

Note: For some networks, network security key or password needs to be entered for connecting. To connect to such networks, please contact the network admin for corresponding network security keys or passwords.

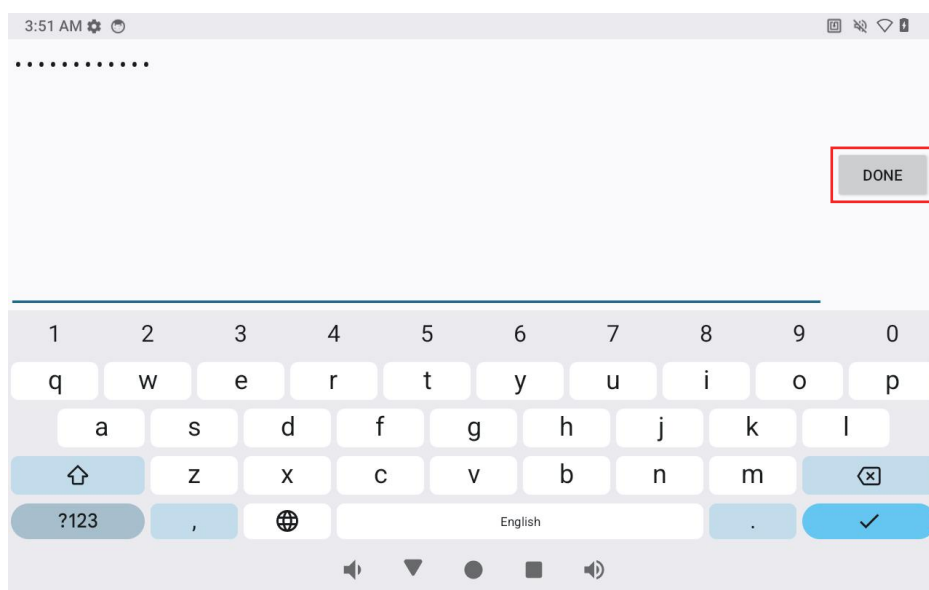
1. Open **Settings - Network & internet** or pull down the status bar to enter the **quick access panel** for operation;



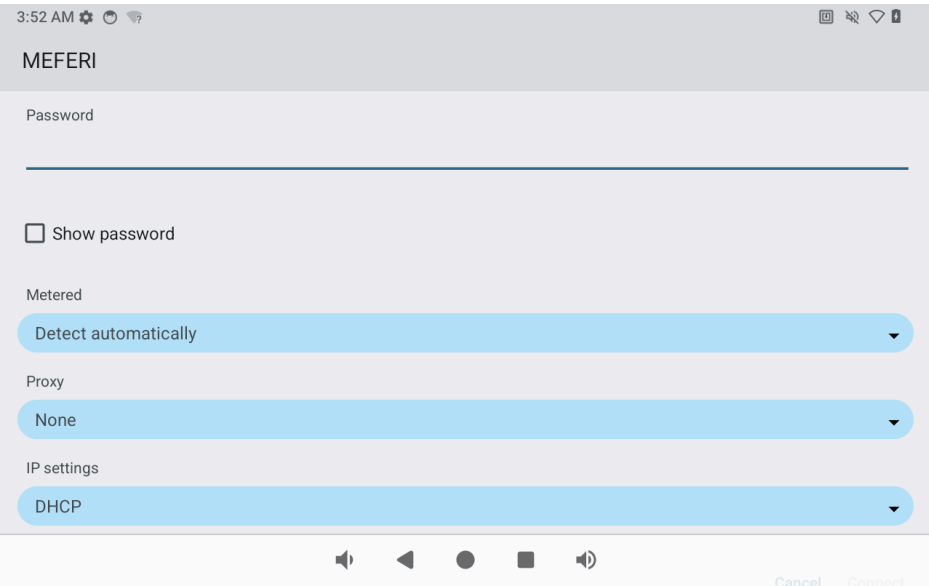
2. Touch to turn on the wifi function.



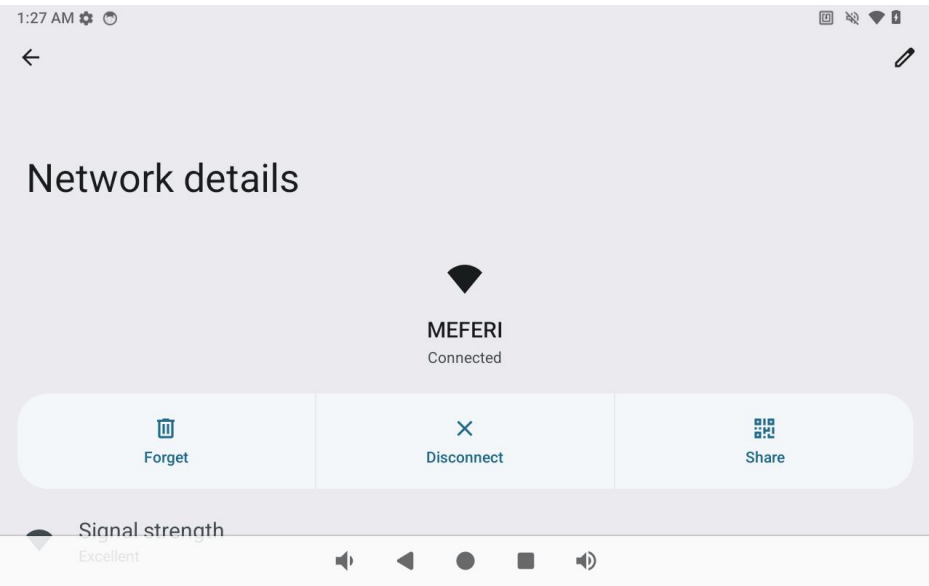
3. Enter the password and tap **DONE**.



- Check Show Password to display the hotspot password to check whether the password input is wrong.
- Check Advanced Settings for advanced settings, including agent and IP settings.

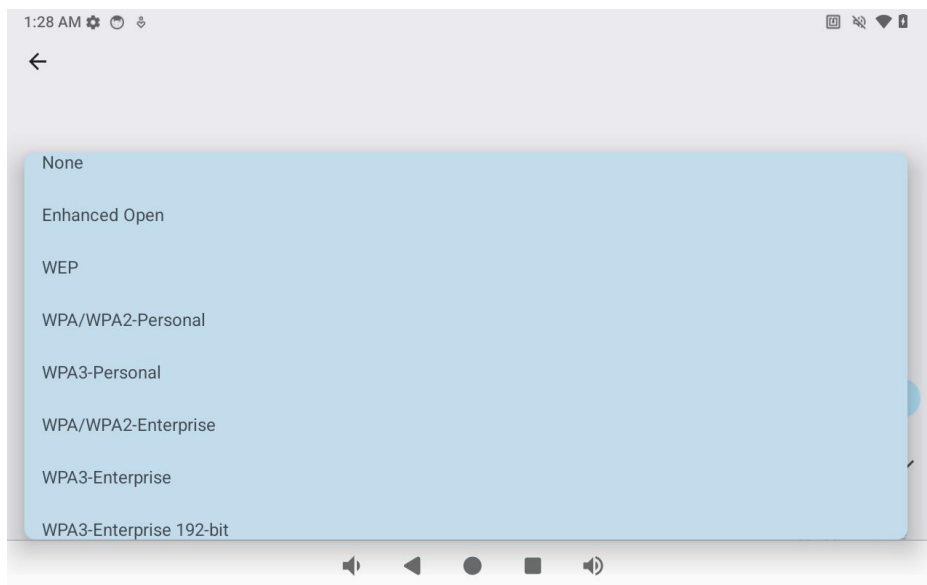


4. Check whether connection is done: **Connected** indicates that connection is done.



5. WLAN allows indoor wireless communication of MC45. MC45 supports WI-FI in two frequency bands: 2.4G and 6G. WLAN security options support below protocols.

- None
- Enhanced Open
- WEP
- WPA/WPA2-Personal
- WPA3-Personal
- WPA/WPA2-Enterprise
- WPA3-Enterprise
- WPA3-Enterprise 192-bit



Bluetooth

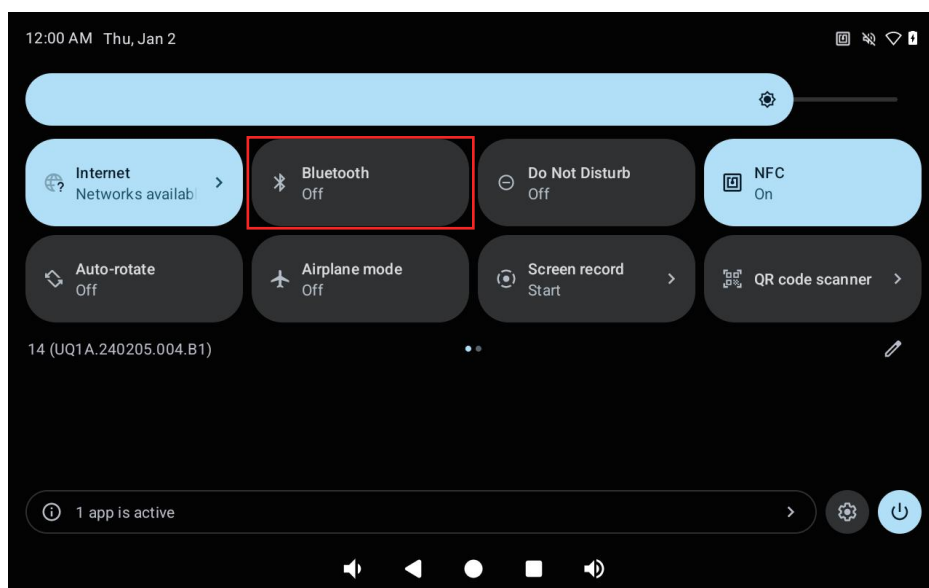
Any device with Bluetooth is available for wireless communication to transmit and receive data by wireless radio frequency (2.4 GHz).

Device with the Bluetooth function such as printer, access point and other mobile computer can exchange data (e.g., file, date or task) after turning on the Bluetooth function.

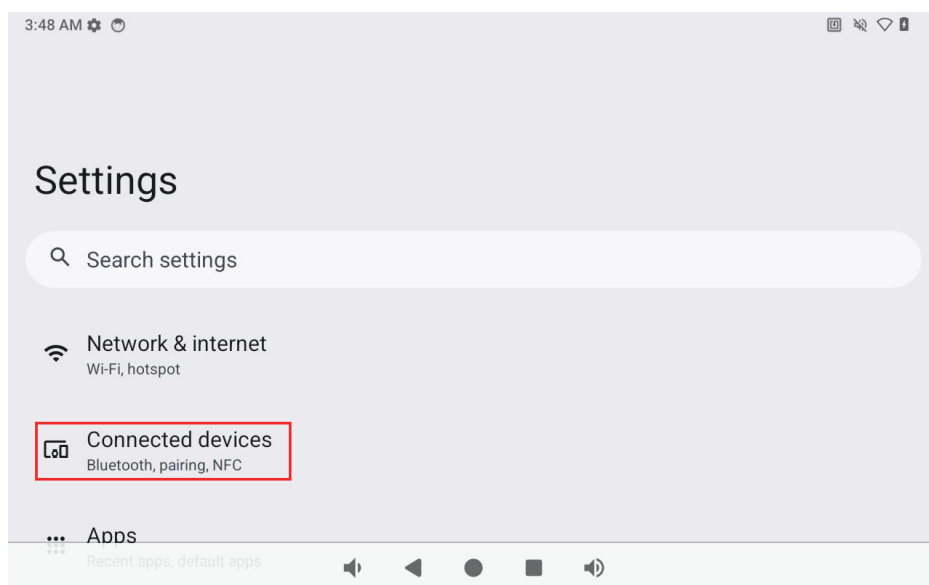
MC45 supports BLE (Bluetooth low energy). BLE is oriented to healthcare, health, safety and home entertainment apps. It remains a standard Bluetooth coverage while reducing power consumption and saving cost.

1. Pull down the status bar and long press the Bluetooth icon or click **Settings - Connected devices** to enter the page.

Method 1

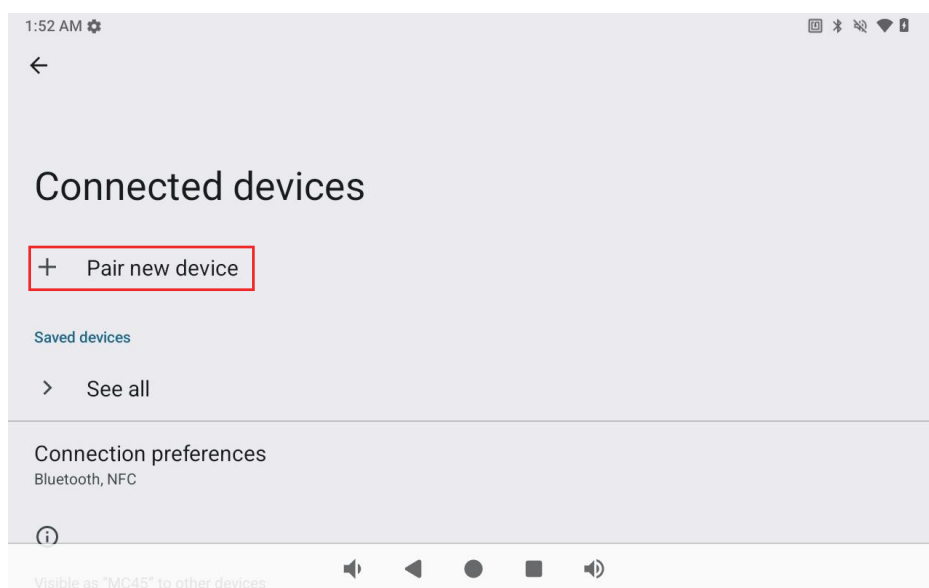


Method 2

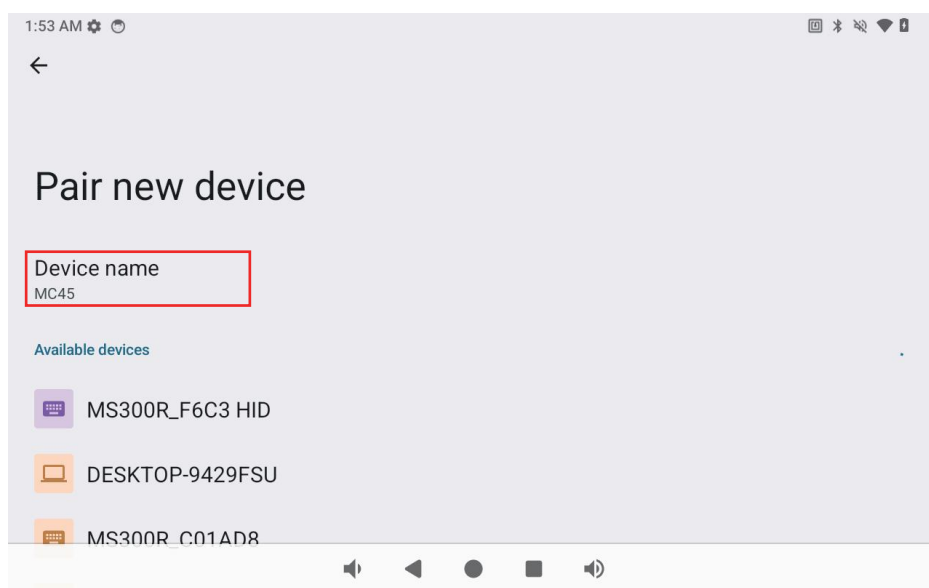


Change Bluetooth device name

1. Click Pair new device.

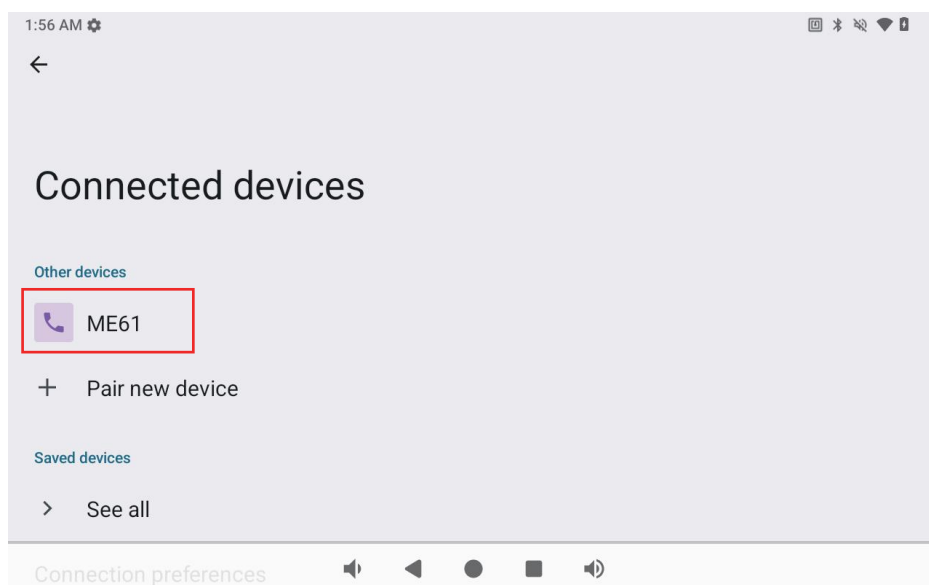
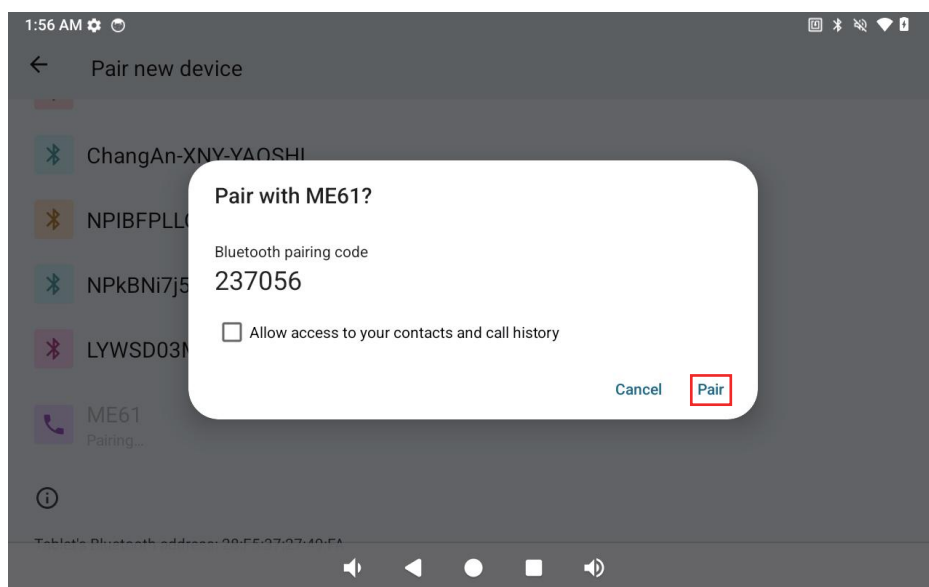
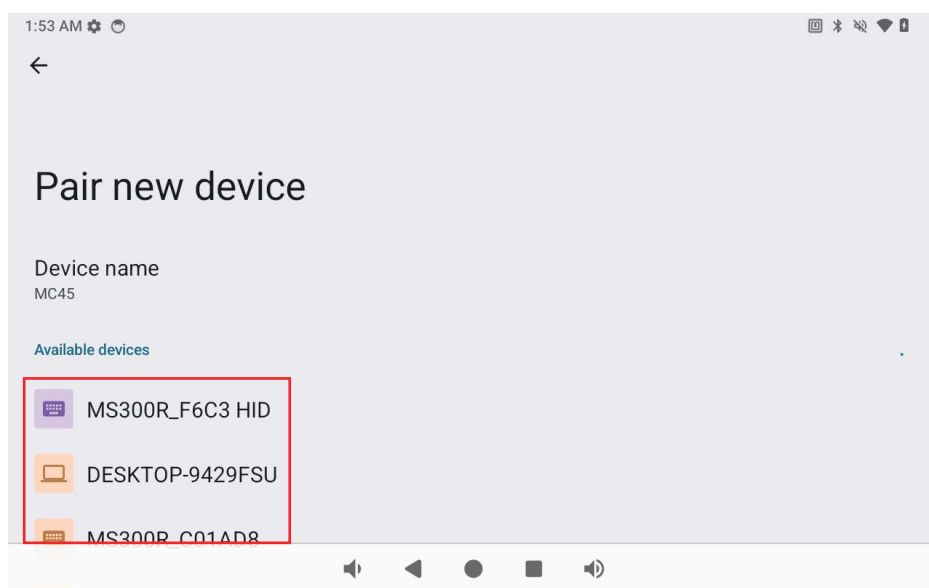


2. Tap **Device name** can change visible name to another.



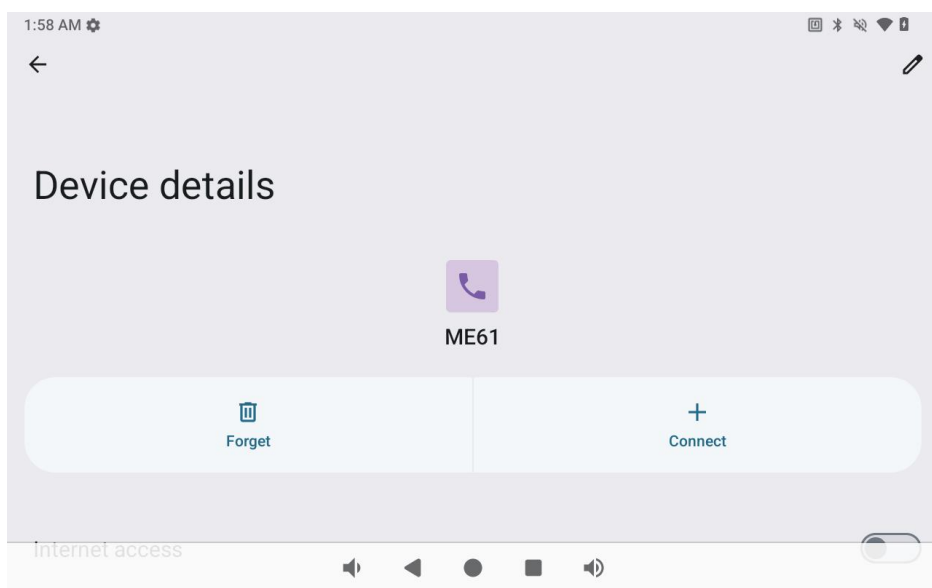
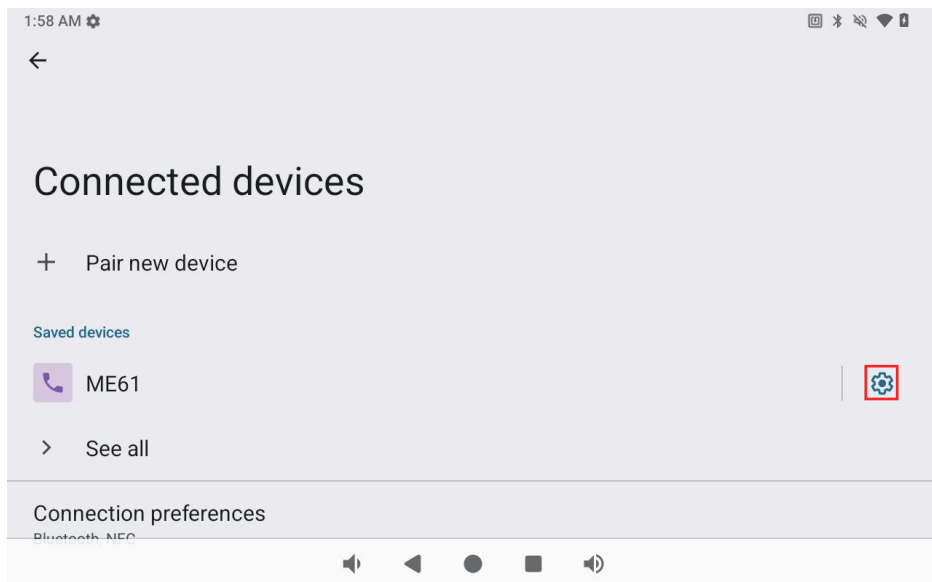
Bluetooth connection

1. Tap **Pair new device** to search for Bluetooth devices nearby.



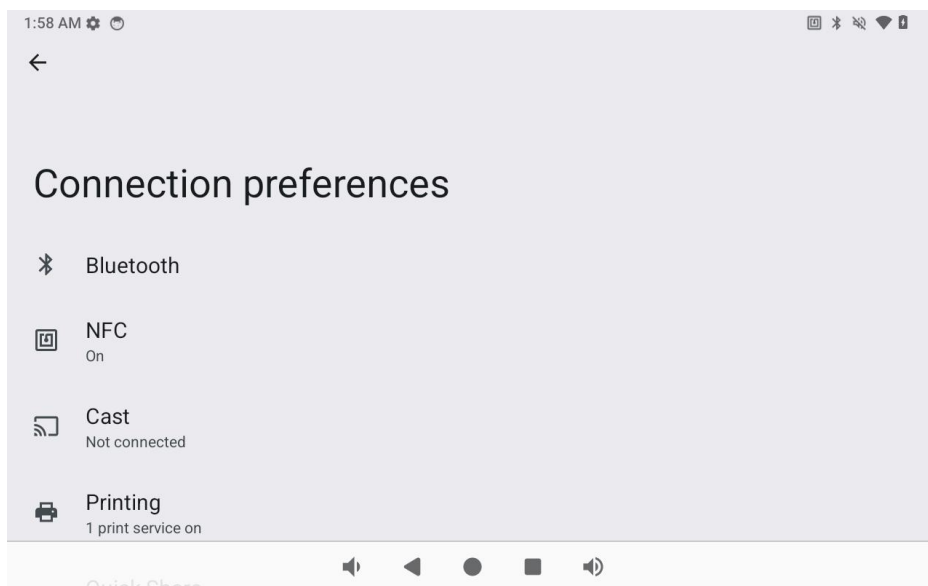
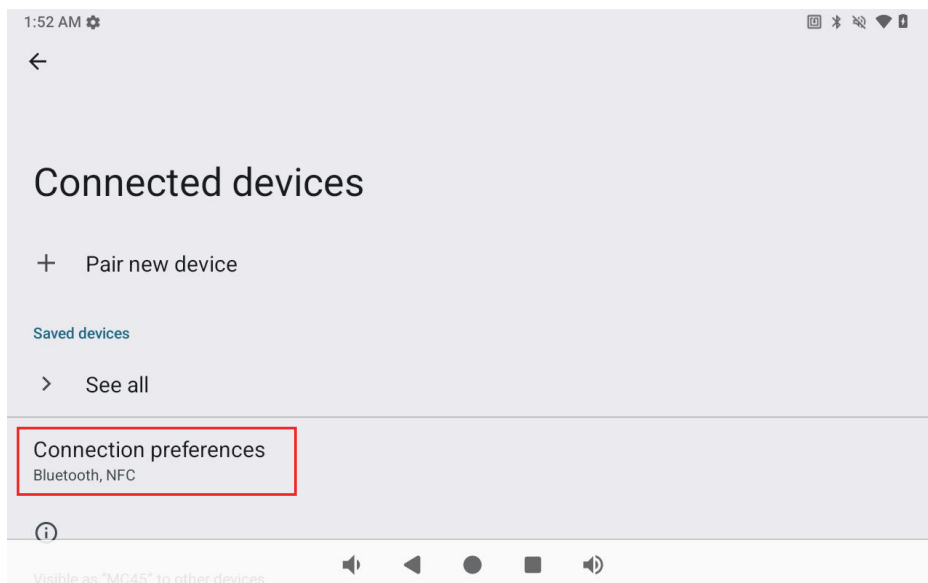
Management paired devices

1. Click the previously connected device settings icon.
2. Can perform management operations such as **Forget** and **Connect** on previously connected devices.



Connection preferences

1. Set up Bluetooth, NFC, etc.



Accessories

Introduction

This chapter describes MC45 accessories.

List of Standard Accessories



Mount Plate

- For MC45



Power Adapter

- Power Supply-12V/2A/DC
- Interface-Black-Europe Standard

Maintenance and Troubleshooting

Introduction

This chapter sets forth the device's maintenance methods and troubleshooting solutions to help users use the product appropriately.

Maintenance

To ensure that the device does not break down, please abide by the following instructions while using MC45:

- Do not scratch the screen of MC45. While using MC45, please use a recognized touch pen or any other pen which is fit for touching with point made from plastics. Please do not use a real pen, pencil or anything sharp to touch the screen of MC45.
- The screen of MC45 is made from glass. So please do not make MC45 fall on the ground or get hit.
- Prevent MC45 from bearing too high or low temperature. Do not put the device on any automotive instrument panel in hot weather. Keep it away from any heat source.
- Do not use MC45 anywhere dusty, damp or moist.
- Clean the scanning head and camera of MC45 by soft lens cloth. If the screen of MC45 gets dirty, please clean the screen by soft cloth with diluted glass cleaning solution.

MC45 cleaning

Housing

Scrub the housing by cloth with alcohol.

Display screen

Scrub the display screen by alcohol wipes but be sure that no liquid drops nearby the edge of the display. Immediately dry the display screen by soft and abrasive-free cloth to prevent mark left.

Camera and scanning window

Please scrub the camera and scanning window by lens wipers or other materials made for cleaning optical materials (e.g., glasses).

Troubleshooting

MC45 troubleshooting.

Problem	Reason	Solution
During data communication via Wi-Fi, no data are transferred or not all data are transferred.	Wi-Fi communication is not enabled.	Turn on Wi-Fi communication.
	The device is out of the range of the access point.	Move closer to the access point.
During data communication via Bluetooth, no data are transferred or not all data are transferred.	Bluetooth communication is not enabled.	Turn on Bluetooth communication.
	The device is out of the signal range of another Bluetooth device.	Move within 10m (32.8ft) range of another device.
No sound.	Volume setting is too low or turned off.	Adjust volume.
MC45 is off.	MC45 is at inactive state.	Not use for a while, the display will automatically turn off. Set the duration to be longer, such as 15 s, 30 s, 1 min, 2 min, 5 min, 10 min or 30 min.
Tapping a window button or icon but fail to trigger the corresponding function.	The device does not respond.	Reset the device.
A message pops up, indicating that MC45's storage is full.	Too many files are saved in MC45	Delete unused memos and records. If necessary, save such records in the host (or use SD Card as additional memory).
	Too many apps are installed in MC45	Uninstall unused apps in MC45 to recover storage capacity.
MC45 fails to decode while reading a bar code.	The bar code is unreadable.	Check the barcode is not damaged.
	The distance between the laser scanning window and bar code is wrong.	Put MC45 within proper scanning range.