



Newland AIDC
Scanning Made Simple

Portable Data Collector NLS-MT67



User Guide

Disclaimer

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Please read through the manual carefully before using the product and operate it according to the manual. It is advised that you should keep this manual for future reference.

Do not disassemble the device or remove the seal label from the device, doing so will void the product warranty provided by Newland Auto-ID Tech. Co., Ltd.

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Risk Warning Regarding Unauthorized System Updates:

You should use the Newland-provided tool to update this product's system. Modifying system files through installing a third-party ROM system or using any cracking method may result in product malfunction or data loss and this will void your warranty.

Newland Auto-ID Tech. Co., Ltd. reserves the right to make final interpretation of the statement above.

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Revision History

Version	Description	Date
V1.0	Initial Release.	2022-05-06
V1.1	Add description about charging temperature	2022-10-08
V1.2	Add description about the battery maintenance	2022-12-01

Contents

Chapter 1 About This Guide	1
Introduction	1
Documentation Set.....	1
Chapter Descriptions.....	1
More Information.....	2
Chapter 2 Getting Started	3
Introduction	3
Getting Started	3
The MT67.....	3
Key.....	5
Charging the Battery	6
On-screen Buttons	8
Installing SIM Card/TF Card.....	10
Chapter 3 Basics	11
Introduction	11
Switching On/Rebooting/Switching Off the MT67.....	11
Locking/Unlocking the MT67	12
Home Screen	13
Status Icons	14
Installing App.....	15
Uninstalling App	15
Date & Time	16
Display	17
Ringtones.....	18
Restoring Factory Settings.....	19
Language & Input Method.....	20
Shortcuts to Apps.....	21
Widgets	21
Chapter 4 Scanning Barcodes	22
Introduction	22
Scanning 1D Barcode	22
Scanning 2D Barcode	23
Programming Scanner	24
Enable Scan.....	25
Output Mode	26

Scan Mode	27
Scan Trigger	28
Prefix & Suffix	29
Good Read Indicator	30
Encoding	31
Data Edit	32
Broadcast-output Settings	33
Symbologies	34
Chapter 5 Bluetooth	37
Introduction	37
Pair Bluetooth	37
Chapter 6 Wi-Fi	39
Introduction	39
Wi-Fi Settings	39
Wi-Fi Settings	40
Metered	41
Proxy	42
IP Settings	43
Add Network	44
Wi-Fi Preferences	46
Saved Networks	47
Wi-Fi Data Usage	48
Chapter 7 Mobile Network	49
Introduction	49
Mobile Network Settings	49
APN Settings	50
Chapter 8 Others	52
Camera	52
GPS	54
NFC	55
Chapter 9 Whitelist Manager	56
Introduction	56
Logging in to Whitelist Manager	56
Chapter 10 System Update	57
Introduction	57
Online Update	57
Local Update	58

Chapter 11 App Development Guide.....	62
Development Environment.....	62
Use of Non-standard Interfaces	62
Chapter 12 Maintenance & Troubleshooting.....	63
Introduction	63
Important Safety & Handling Information	63
Disassembly and Retrofit	63
External Power Supply.....	63
Abnormal Situation.....	63
Drop Damage.....	63
LCD Screen	63
Stacking Heavy Objects	63
Mounting Location.....	63
Wireless Functionalities	64
Use & Maintenance.....	64
Battery Safety Guidelines.....	64
Troubleshooting.....	66
FCC Warning	67

Chapter 1 About This Guide

Introduction

This guide provides instructions for programming and operating the NLS-MT67 portable data collector (hereinafter referred to as “the MT67” or “the terminal”).

Documentation Set

The documentation set for the **MT67** includes:

- ✧ **NLS-MT67 Portable Data Collector Quick Start:** Describes how to get the NLS-MT67 up and running.
- ✧ **NLS-MT67 Portable Data Collector User Guide:** Describes how to program and use the NLS-MT67.
- ✧ **Newland APP User Guide:** Describes how to install/uninstall, or use the APPs developed by Newland (For GMS Version Only)

Chapter Descriptions

- | | |
|--------------------------------------|--------------------------------------------------------------------------------------------|
| ✧ <i>Chapter 1 About This Guide</i> | Provides a general description of this manual. |
| ✧ <i>Chapter 2 Getting Started</i> | Provides information on getting the MT67 up and running for the first time. |
| ✧ <i>Chapter 3 Basics</i> | Describes how to program the MT67 for the use of its basic features. |
| ✧ <i>Chapter 4 Scanning Barcodes</i> | Provides the instructions as to how to scan 1D/2D barcodes and how to program the scanner. |
| ✧ <i>Chapter 5 Bluetooth</i> | Explains how to use Bluetooth functionality. |
| ✧ <i>Chapter 6 Wi-Fi</i> | Explains how to use Wi-Fi functionality. |
| ✧ <i>Chapter 7 Mobile Network</i> | Explains how to use Mobile Network functionality. |
| ✧ <i>Chapter 8 Others</i> | Explains how to use Camera, GPS, and NFC functionalities. |
| ✧ <i>Chapter 9 Whitelist Manager</i> | Explains how to use the whitelist management tool. |

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- ✧ *Chapter 10 System Update* Explains how to update the system.
 - ✧ *Chapter 11 App Development Guide* Describes the app development environment and the use of non-standard interfaces.
 - ✧ *Chapter 12 Maintenance & Troubleshooting* Provides troubleshooting solutions for issues that might occur when using the MT67.

More Information

For more product and support information, please visit our website: <http://www.newlandaidc.com>.

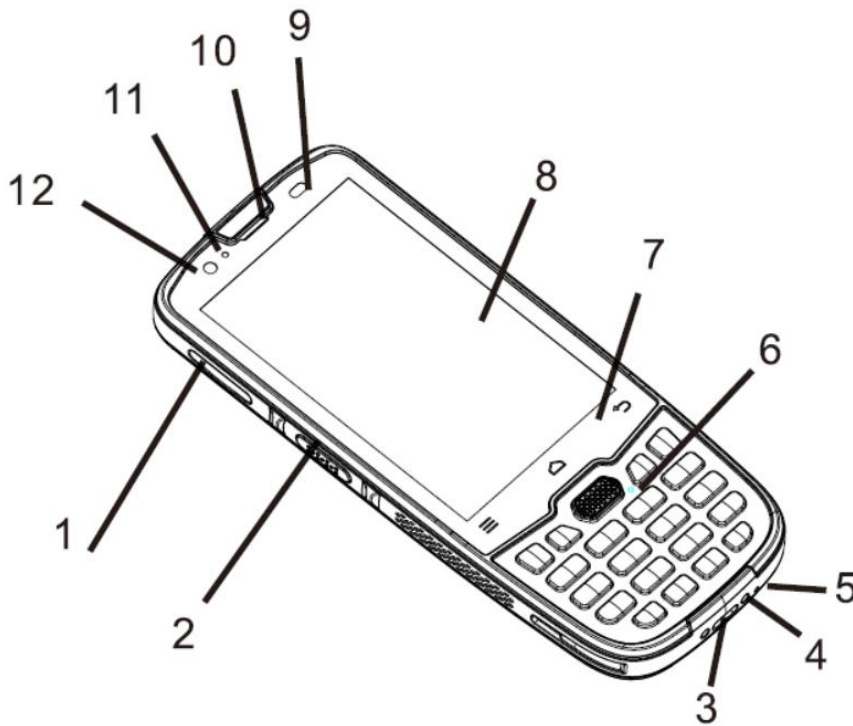
Chapter 2 Getting Started

Introduction

This chapter lists the parts of the MT67 and explains how to charge the battery and power on the MT67 for the first time.

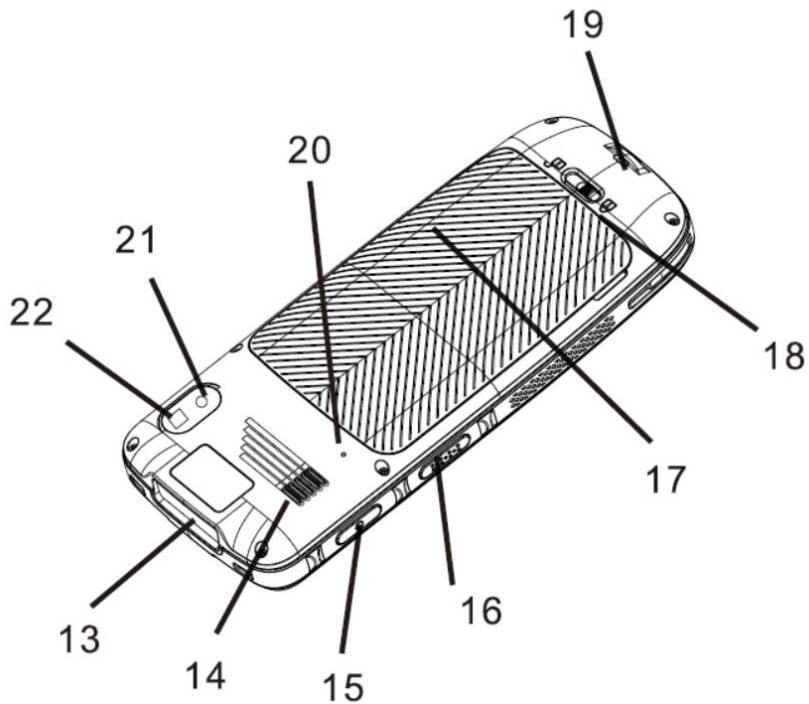
Getting Started

The MT67



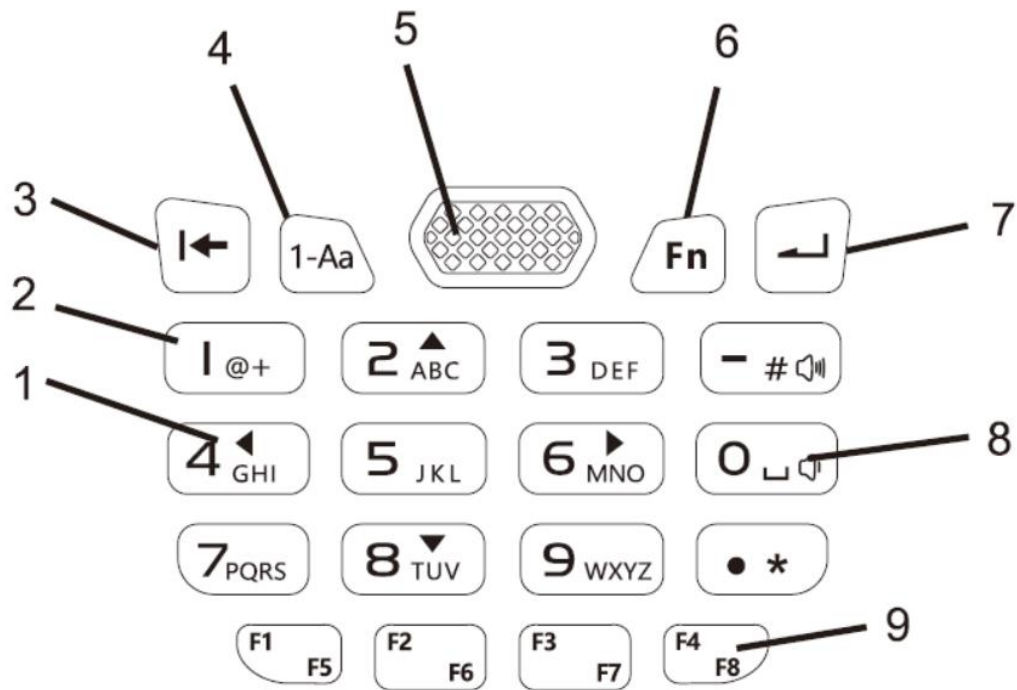
1	SIM Card Slot	2	Left Scan Key
3	USB Connector	4	Cradle Connector
5	Main Microphone	6	Keypad
7	Virtual Keypad	8	Screen

9	Light/Proximity Sensor	10	Earpiece
11	LED	12	Front Camera(Optional)



13	Scan Window	14	Speaker
15	Power Key	16	Right Scan Key
17	Battery Cover	18	Battery Cover Latch
19	Lanyard Hole	20	Sec. Microphone
21	Rear Camera	22	Flashlight

Key



1 Arrow Shortcut Key

2 Number Key

3 Backspace Key

4 Alphanumeric Key

5 Main Scan Key

6 Fn Key

7 Enter Key

8 Volume Shortcut Key

9 User-Defined Key

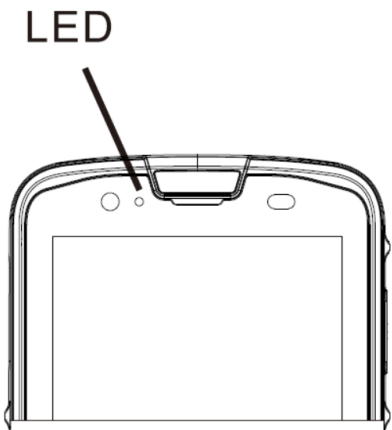
*Shortcut Key Usage: Press the Fn key and then the shortcut key to activate the function.

Charging the Battery

Connect the MT67 to a power outlet using the included AC adapter or USB cable. When the terminal's battery is less than 5%, it takes about 3 hours to fully charge it (The terminal is shut down or in sleep mode).



When charging the MT67 with an AC adapter or USB cable, the user is notified of the charging status by the LEDs on the terminal.



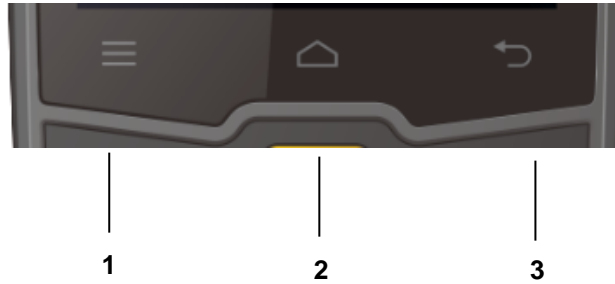
Scan/Decode	
Blue LED flashes once	Decode successfully

Charging /Battery Status	
Green LED on	Fully charged
Red LED on	Charging in progress
Red LED flashes	Low-battery alert

Note:

1. If the MT67 battery is completely drained, please press the power key to turn it on after 15 minutes of being charged.
2. When charging, make sure that the indoor temperature is above 0 degrees Celsius (32 degrees Fahrenheit). The device will stop charging at a low temperature for safety considerations.

On-screen Buttons



1	Overview Button	2	Home Button
3	Return Button		

The MT67 has three on-screen buttons. The on-screen buttons include Overview Button, Home Button, and Return Button.

Overview Button: Tap it to display a list of thumbnail images of apps you've worked with recently. To open an app, tap it. To remove a thumbnail from the list, swipe it left or right.

Home Button: Tap it to go back to the home screen.

Return Button: Tap it to go back to the previous screen.

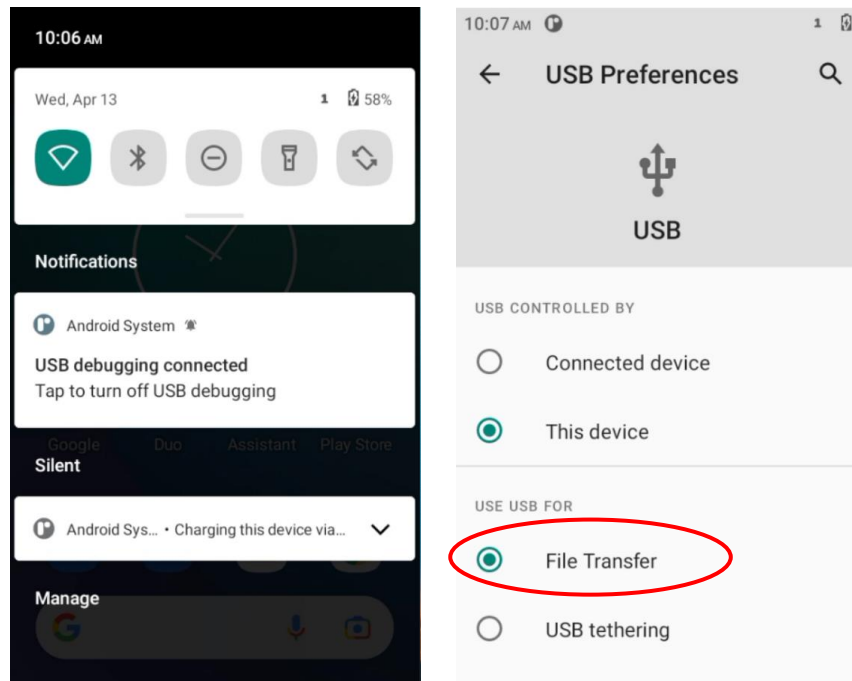
Communicating with PC

Step 1: Connect the Micro USB port on the MT67 to your computer with the included USB cable.

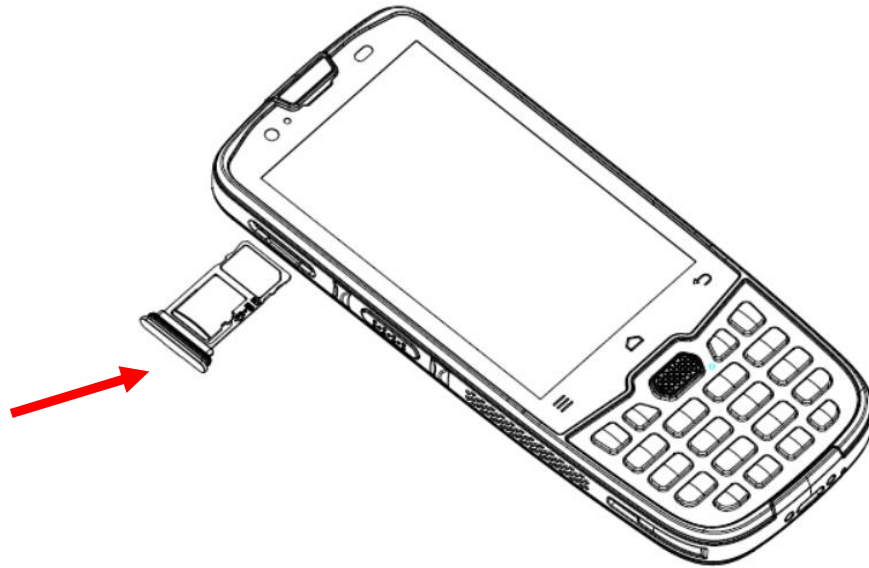
Step 2: Switch the MT67 on. On the Home screen, swipe from top to bottom with one finger in one smooth motion to open the notification bar as shown below.

Step 3: Tap “Charging this device via USB”, and then “Tap for more options”.

Step 4: Select “Transfer files”. Navigate to the “My Computer” section of your computer and look for the newly added drive. Double-click it and you will be connected to the MT67. Then you may handle the files on the terminal through your computer.



Installing SIM Card/TF Card



Step 1: Pull the SIM/TF card tray out from the slot on the left side of the terminal.

Step 2: Place the SIM/TF card into the tray and then gently push the tray all the way into the slot until it locks in place.

Chapter 3 Basics

Introduction

This chapter provides the basics of setting and using the MT67

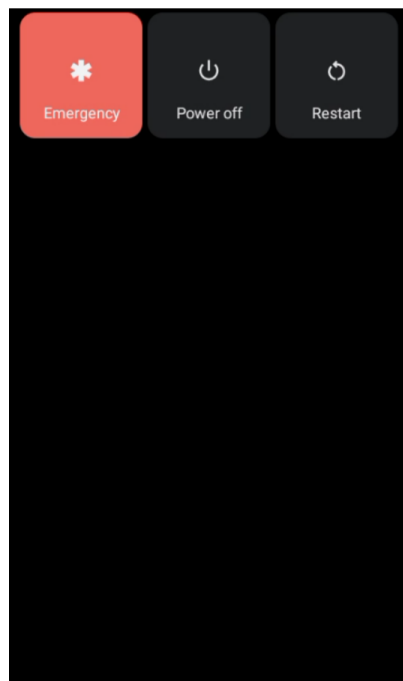
Switching On/Rebooting/Switching Off the MT67

After the MT67 is installed with the SIM card and fully charged, you can start to use it.

Switch the MT67 on: Hold down the Power key on the right side of the terminal until the Android logo is displayed. Note that the initialization is going to take some time before the MT67 displays the Home screen.


Reboot the MT67: Hold down the Power key on the right side of the terminal until the window below pops up, then tap “Restart”.

Switch the MT67 off: Hold down the Power key on the right side of the terminal until the window below pops up, then tap “Power off”.



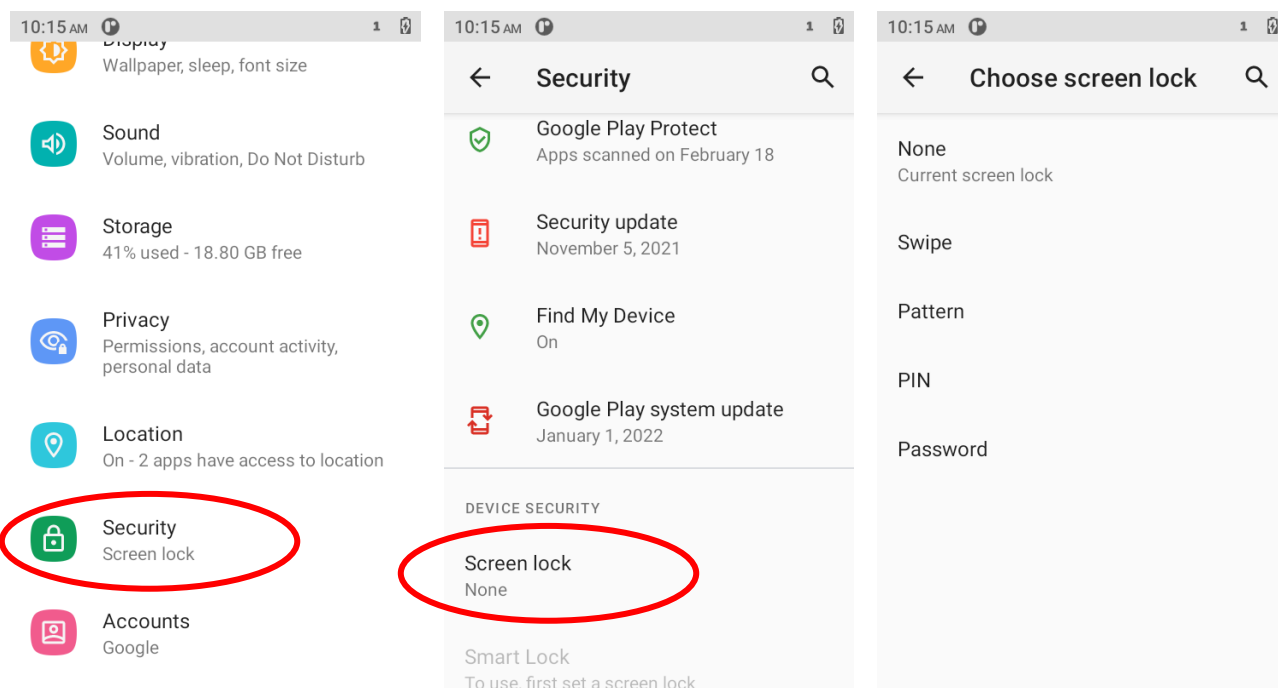
Locking/Unlocking the MT67



Tap the app icon  and then “Security” -> “Screen lock” and set the screen lock mode per your needs.

Lock the MT67: Briefly press the Power key on the right side of the terminal. If no operation is performed on the MT67 for a preset period, the MT67 locks automatically. You can change how long it takes for the MT67 to lock.

Unlock the MT67: Briefly press the Power key on the right side of the terminal and swipe up from the bottom of the screen to unlock.



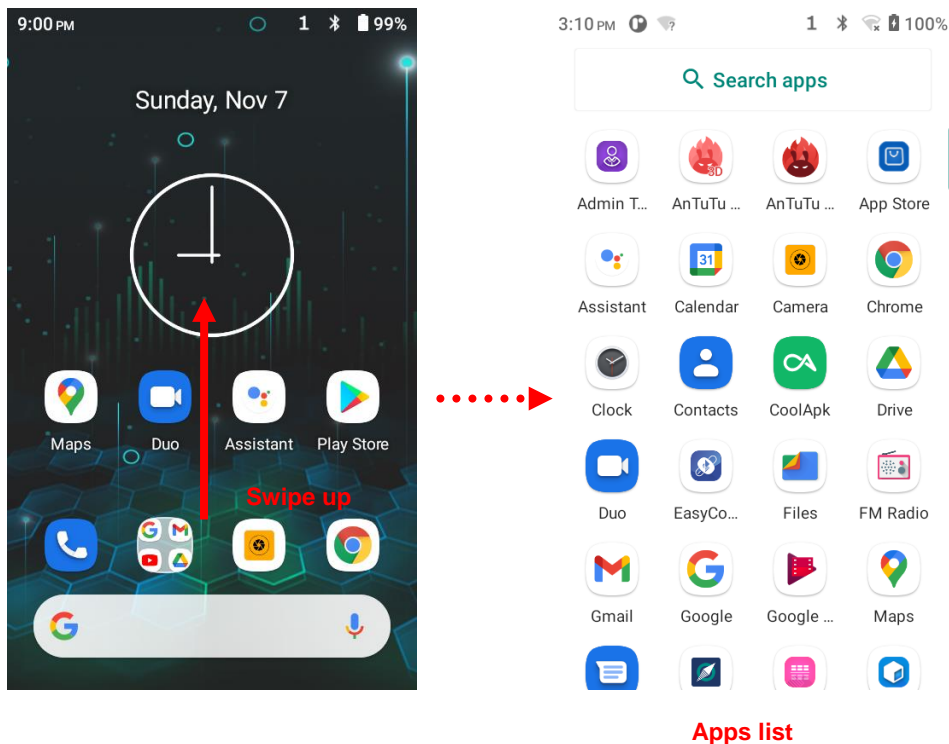
Home Screen

View another Home screen: Swipe left or right.

Go to the Home screen: Tap the Home key.

Open an app: Tap it.

View all apps/Open apps list: Swipe up from the bottom of the screen to view all the apps.





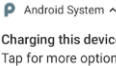
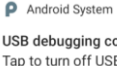










Add an app icon to the Home screen: Swipe up from the bottom of the screen to view all the apps. Tap and hold your desired app until it appears on the Home screen and then drags it into a blank area.

Delete an app icon on the Home screen: Tap and hold your desired app on the Home screen until "X Remove" appears, then drag the app into it. Note that this operation only removes the icon from the Home screen. To remove the app from the MT67, see the **Uninstalling App** section.

Status Icons

The icons in the notification bar at the top of the screen give information about the MT67.

Status Icon	Description	Status Icon	Description
	WLAN on		Signal Strength
	Bluetooth on		Airplane Mode on
 <p>Android System ^ Charging this device via USB Tap for more options.</p>	USB Connected	 <p>Android System USB debugging connected Tap to turn off USB debugging</p>	USB Debugging
	Missed Calls		Battery Charging in Progress
	New Message		Hotspot & Tethering
	Positioning		Power Saving Mode
	Don't Disturb Mode		Vibrate on

Installing App

Use one of the following methods to install a new app on the MT67:

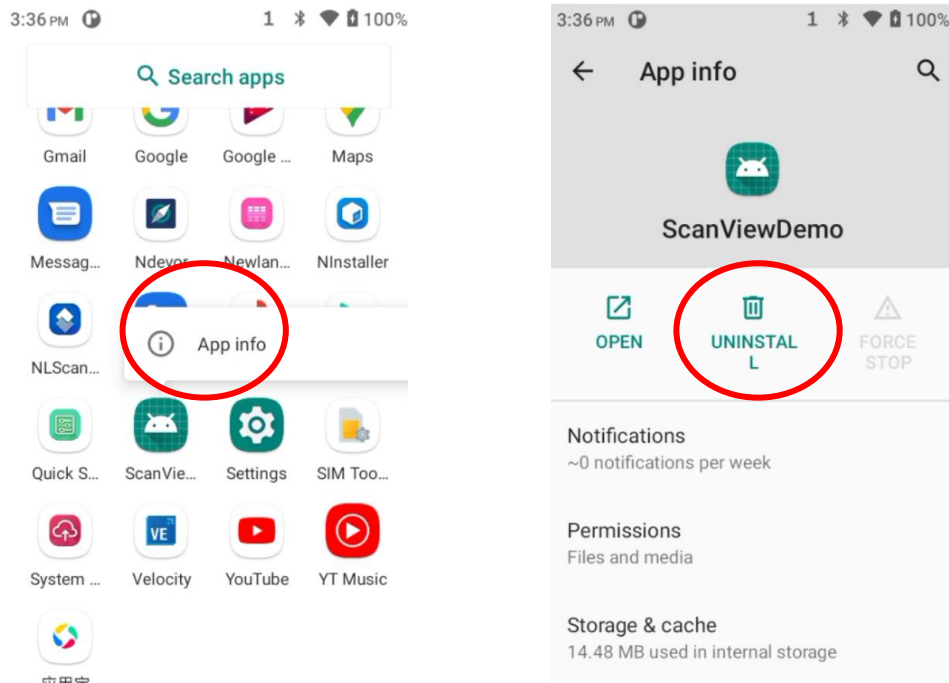
1. Download an APK file from the online app store and install it.
2. Download the software package onto a MicroSD card or PC and copy it to your terminal. Then install it with File Manager.
3. Connect the MT67 to the PC with the supplied USB cable. Install a new app using a mobile assistant (such as Baidu Mobile Assistant) installed on the PC.

Uninstalling App


Follow the procedure below to remove an app from the MT67:

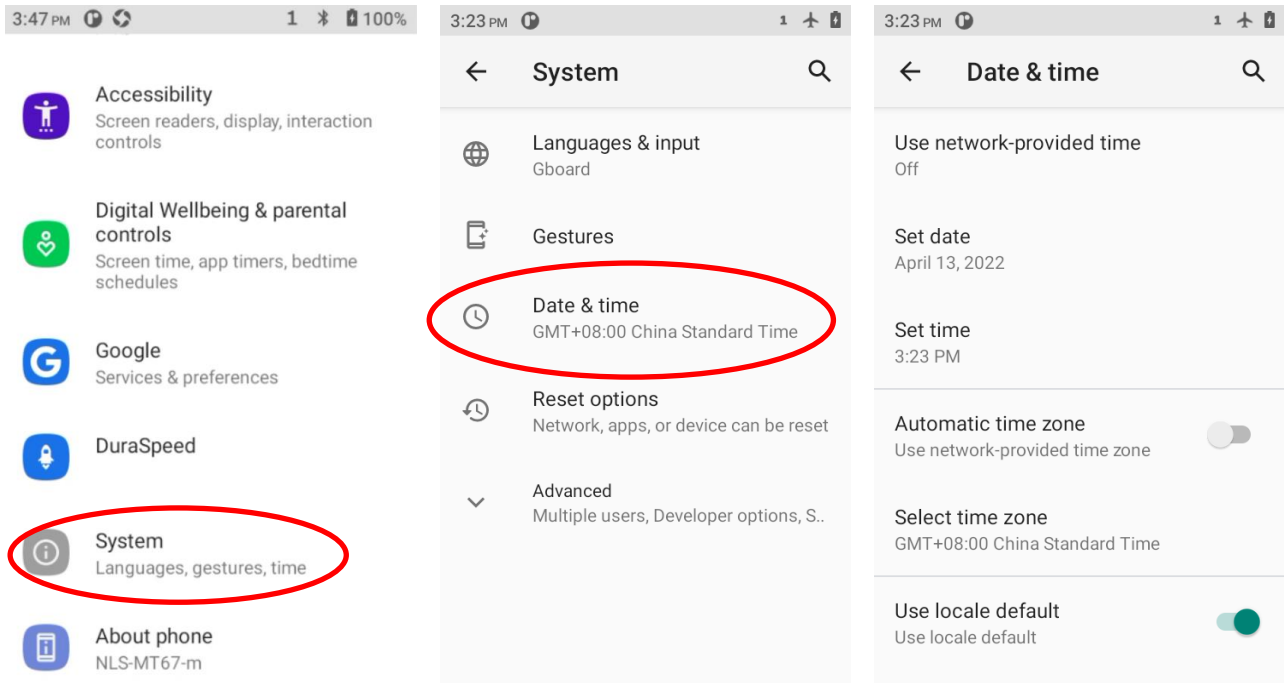
Swipe the Home screen from bottom to top with one finger in one smooth motion to view all the apps. Tap and hold your desired app until “App info” appears, then tap “UNINSTALL” and uninstall it.

*The application that comes with the system cannot be uninstalled.




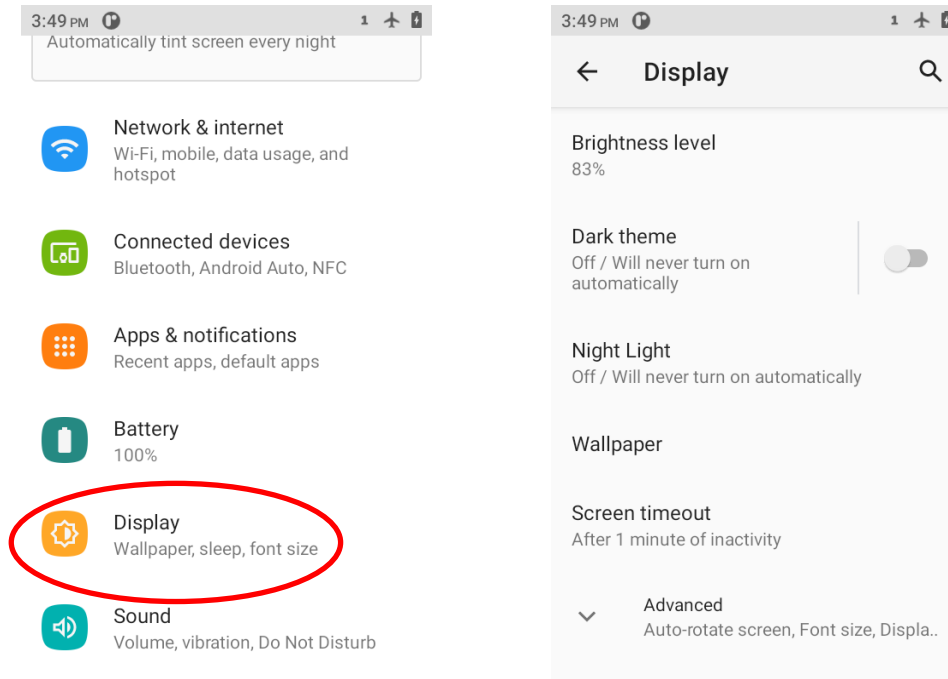
Date & Time

Set the date and time: Tap the app icon  and then "System" -> "Date & time" and set the date and time on the screen shown below as per your needs.




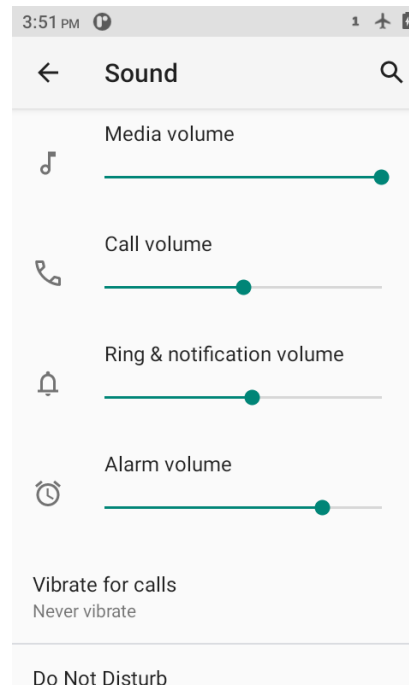
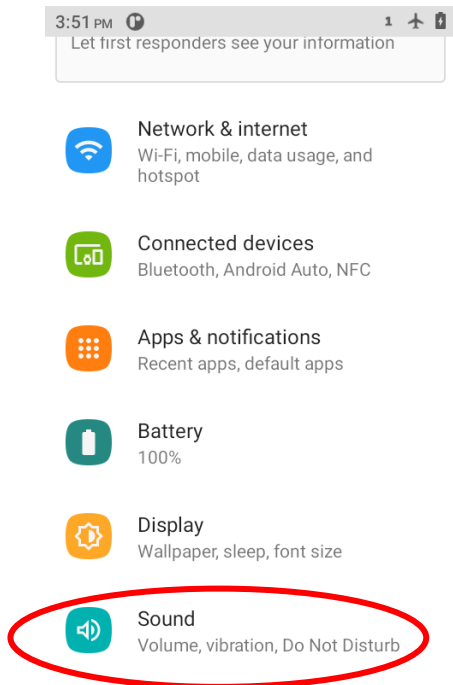
Display

Tap the app icon  and then “Display”, and set the brightness level, dark theme, night light, adaptive brightness, wallpaper, and other parameters on the screen shown below as per your needs.




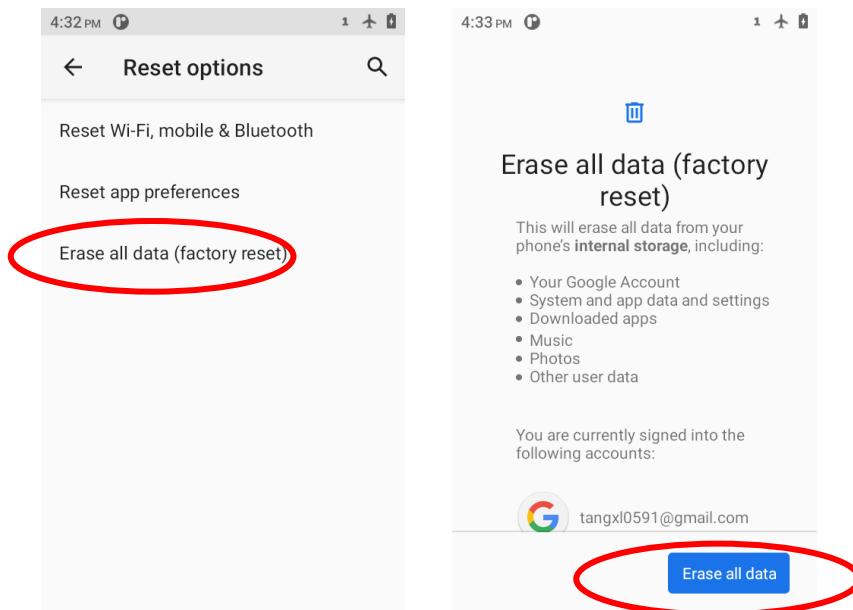
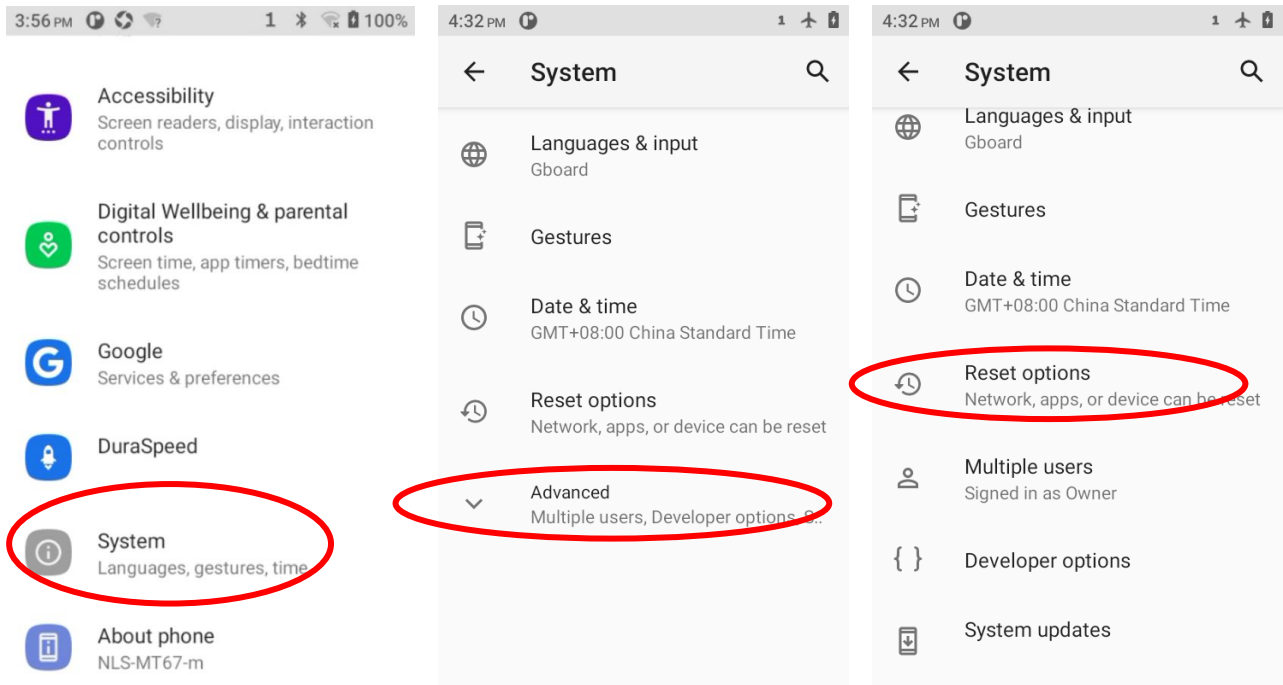
Ringtones

Tap the app icon  -> "Sound". Then set the ringtones and other notification sounds as per your needs.




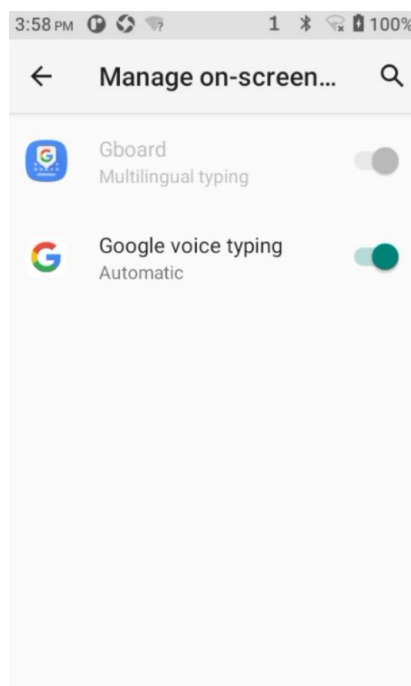
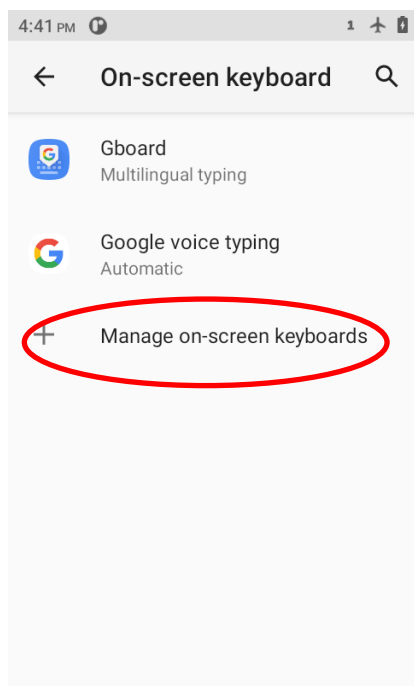
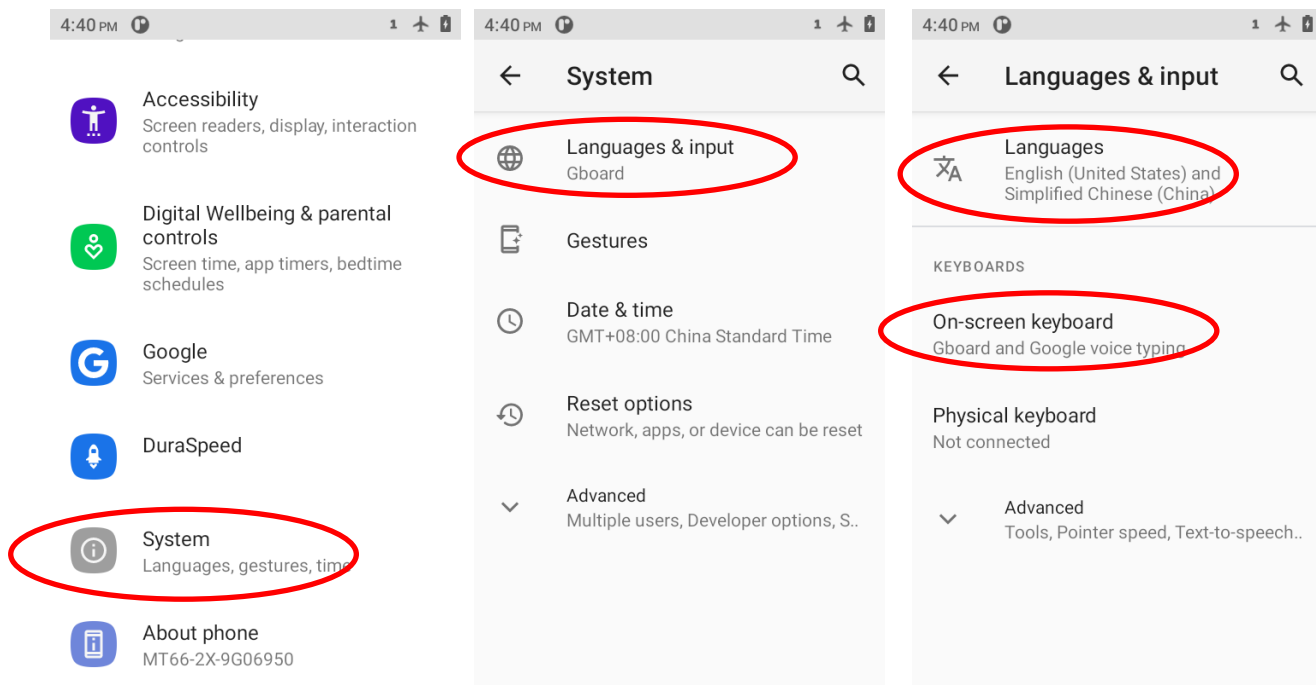
Restoring Factory Settings

Tap the app icon  -> "System" -> "Advanced" -> "Reset options" -> "Erase all data (factory reset)" -> "Erase all data". After this operation, the terminal will be reset to factory defaults and all the personal data on the internal storage, such as music and photos, will be deleted.



Language & Input Method


Tap the app icon  -> "System"-> "Languages & input". Then set the language and input method as per your needs.




Shortcuts to Apps

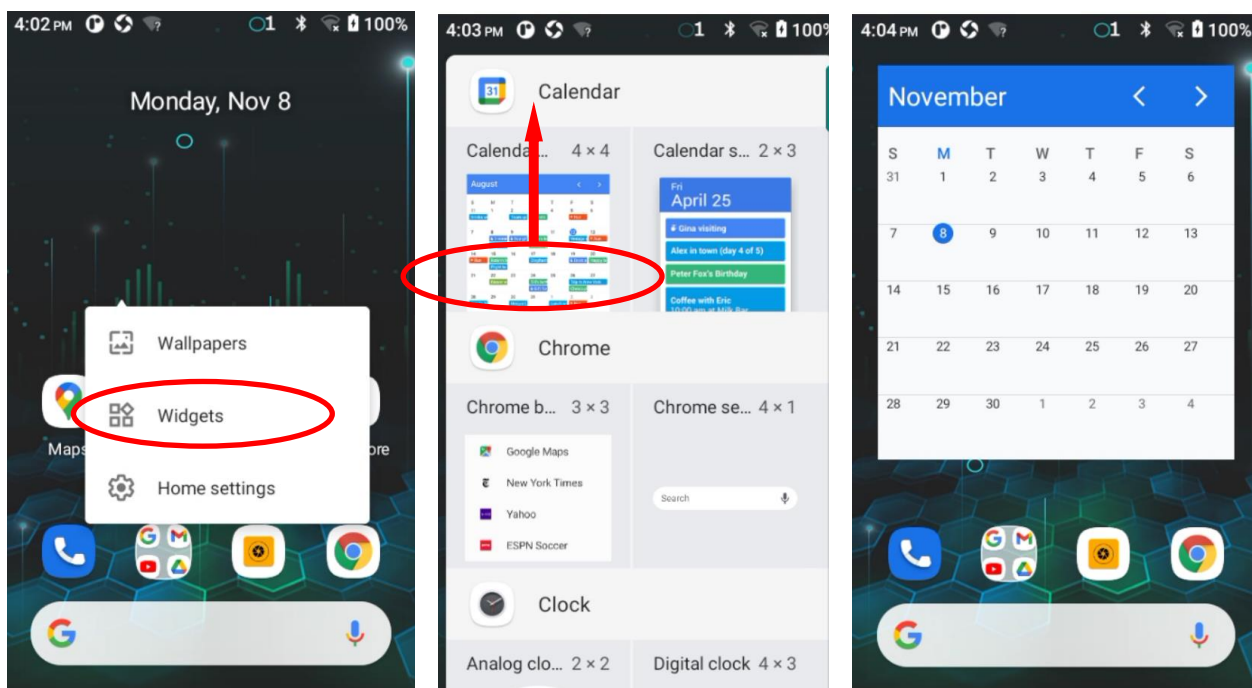
Create a shortcut to an app on your Home screen: On the home screen, swipe from bottom to top with one finger in one smooth motion to view all apps. Tap and hold your desired app and then drag it into the Home screen.

Widgets

View all widgets: Tap and hold on a blank area of the Home screen and then tap .

Open a widget: Tap it.

Add a widget icon to the Home screen: Tap and hold the Home screen and then tap . Tap and hold your desired widget and then drag it into the Home screen.



Chapter 4 Scanning Barcodes

Introduction

This chapter includes scanning tips and instructions for setting up the scanner.

Scanning 1D Barcode

Adjust the scan angle or the distance between the MT67 and the target barcode to ensure the length of laser beam is roughly 8mm greater than that of the barcode, as shown below.



Correct	Wrong
A barcode with a horizontal laser beam passing over it, centered and fully covering the width of the barcode.	A barcode with a horizontal laser beam passing over it, but the beam is shifted to the right and does not cover the entire width of the barcode.
A barcode with a horizontal laser beam passing over it, but the beam is shifted to the left and does not cover the entire width of the barcode.	A barcode with a vertical laser beam passing over it, which is not the correct scanning angle.
A barcode with a diagonal laser beam passing over it, which is not the correct scanning angle.	A barcode with a diagonal laser beam passing over it, but the beam is shifted and does not cover the entire width of the barcode.

Scanning 2D Barcode

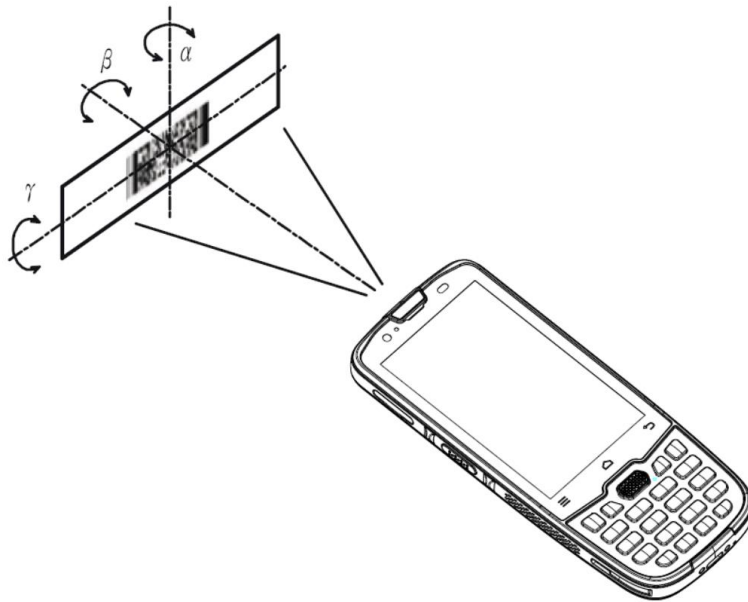
Adjust the scan angle and the distance between the MT67 and the target barcode to make them fall into the following ranges:

1. Point the MT67's focus lamp at the center of the barcode.
2. Move the MT67 until you find the appropriate scan distance.
3. Optimum scan angles:



Skew (α) < 45° (0° preferably)

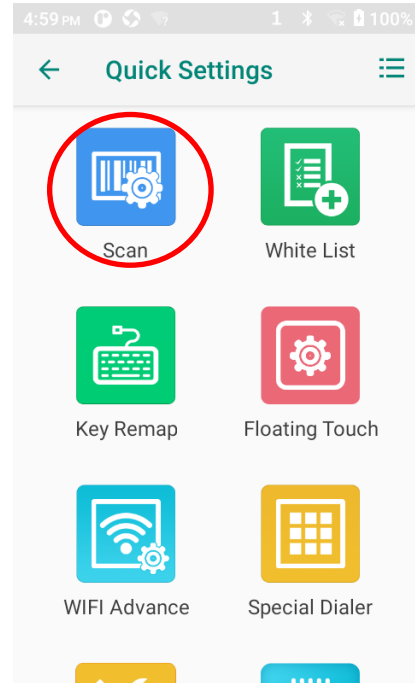
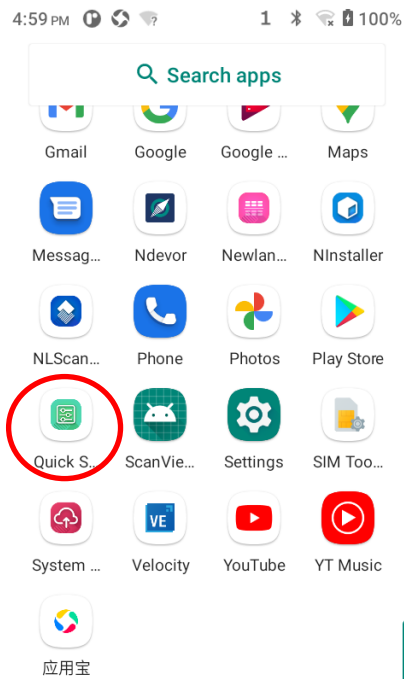
Pitch (γ) < 45° (5°- 20°preferably)

Roll (β) = 0°- 360°



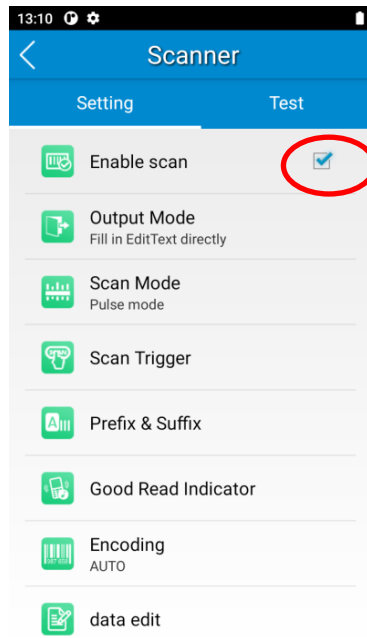
Programming Scanner

Tap the app icon  on the Home screen ->  Scan Setting.. Then configure the scanner parameters as per your actual needs.



Enable Scan

Check or uncheck the “Enable scan” item to enable or disable the scanning feature of the MT67.



Output Mode

The MT67 provides three output modes: Simulate keystroke, Output via API, and Fill in EditText directly.

1. **Simulate keystroke:** Output scanned data to keyboard buffer to simulate keyboard input.

Character interval (ms): A character interval of 0-100 milliseconds may be placed between the transmissions of each character of scanned data.

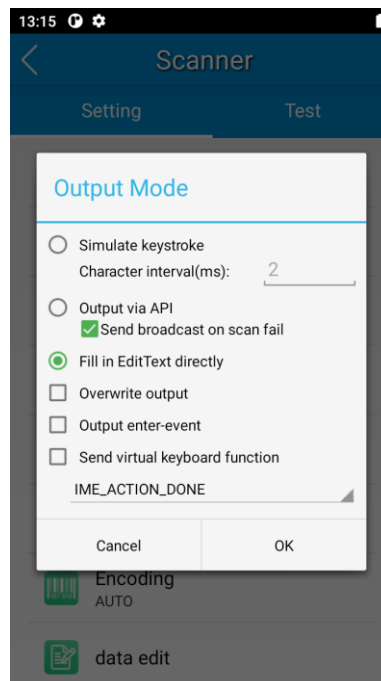
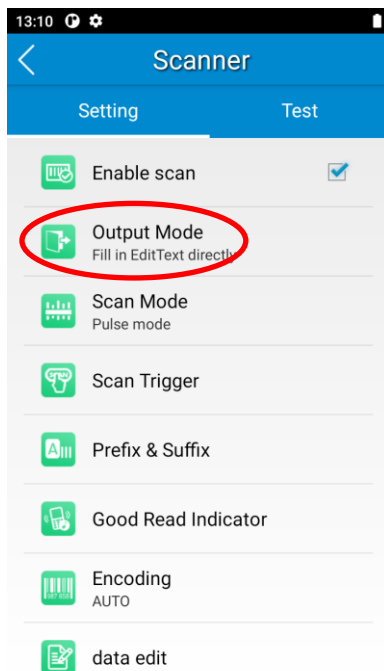
2. **Output via API:** The application acquires scanned data by receiving system broadcasts.

3. **Fill in EditText directly:** Output scanned data at the current cursor position in EditText.

Overwrite output: Clear the text input box before sending the barcode currently scanned to make sure only the most recently scanned data is present in the text input box. This feature is available only when **Simulate keystroke** or **Fill in EditText directly** is selected.

Output enter-event: Send an Enter Key after each barcode is scanned.

Send virtual keyboard function: Make send virtual keyboard function as “action done”, “action search”, “action previous”, action search, etc.



Scan Mode

The MT67 provides the following four scan modes:

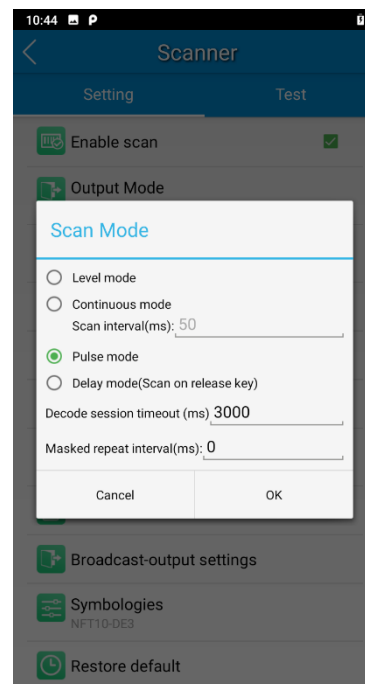
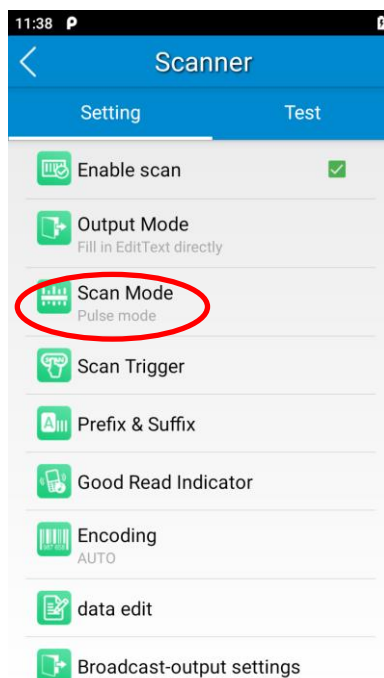
1. **Level mode:** Press and hold the scan trigger to start a decode session which continues until the trigger is released.
2. **Continuous mode:** Press the scan trigger to continuously read barcodes. To suspend or resume scan operation, simply press the scan trigger.

Scan interval (ms): This parameter sets the timeout between decode sessions.

3. **Pulse mode:** Press the scan trigger to start a decode session which continues until the decode session timeout expires.
4. **Delay mode (Scan on release key):** Press and hold the scan trigger to aim at the barcode then release it to start a decode session which continues until the decode session timeout expires or a barcode is decoded. It is advised to use this scan mode and the **Acuscan Decoding** feature to ensure that only the desired barcodes are read if multiple barcodes are placed closely together.

Decode session timeout (ms): This parameter sets the maximum time decode session continues during a scan attempt.

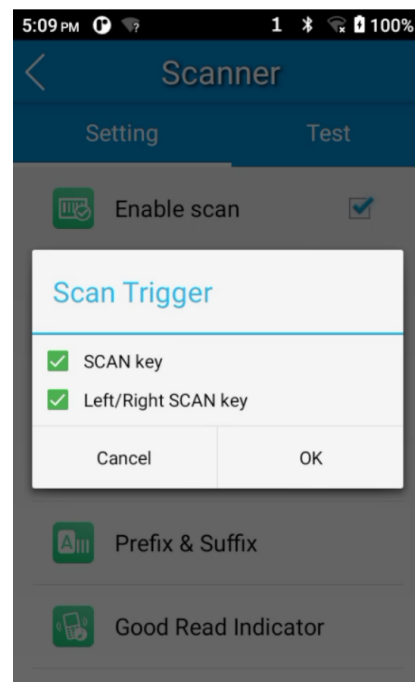
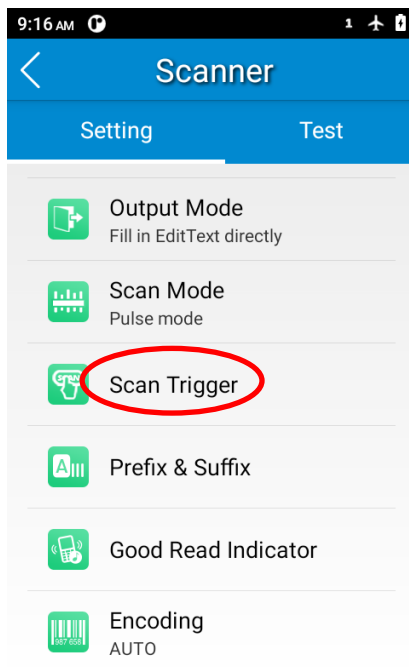
Masked repeat interval (ms): This parameter sets the time interval between two successive reads on the same barcode.



Scan Trigger

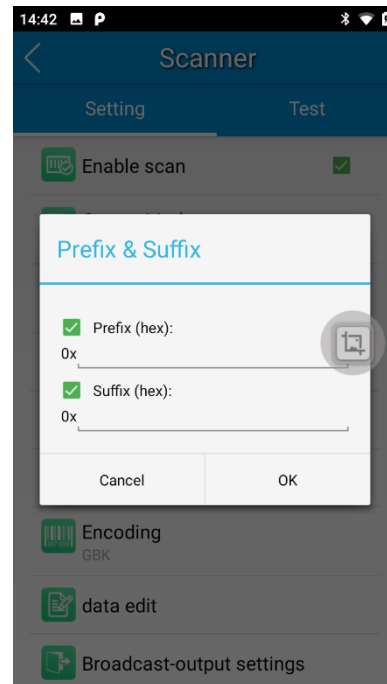
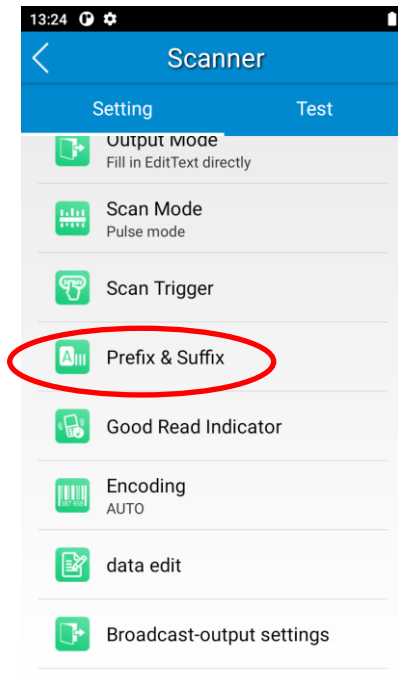
The three scan keys on the terminal can all serve as scan triggers. Enable or disable them as per your actual needs.

1. **SCAN key:** Use the Scan key on the front panel of the terminal as a scan trigger.
2. **Right SCAN key:** Use the Scan key on the right side of the terminal as a scan trigger.
3. **Left SCAN key:** Use the Scan key on the left side of the terminal as a scan trigger.



Prefix & Suffix

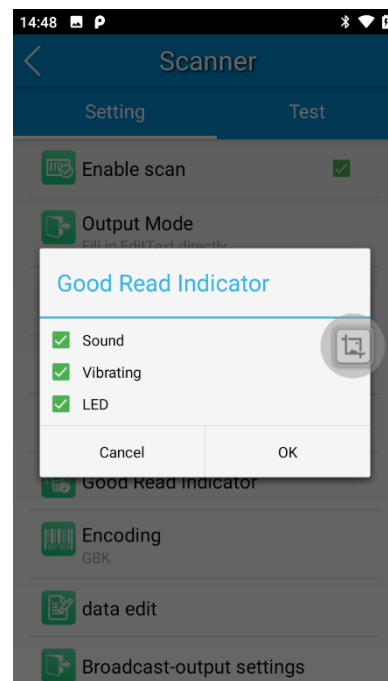
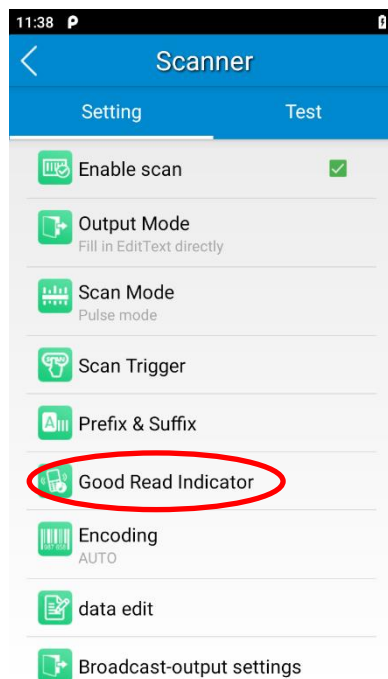
To set the prefix/suffix, enter the hexadecimal value of a desired prefix/suffix, and then tap “OK”. For example, if you want to add a Line Feed character after each barcode, set the suffix to “0A”; if you want to add a Carriage Return character after each barcode, set the suffix to “0D”.



Good Read Indicator

The terminal can use sound/vibration/LED to indicate a good read. Choose one or more options as per your actual needs.

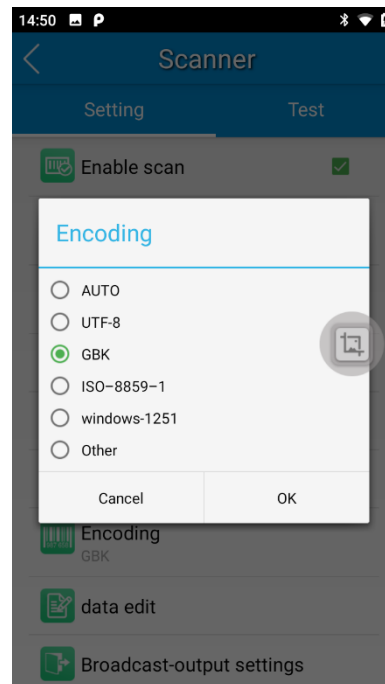
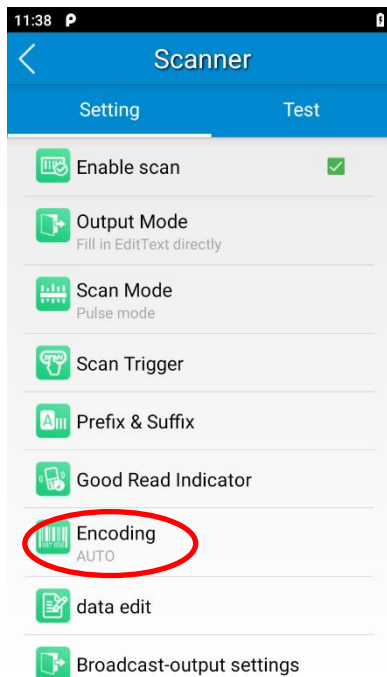
1. **Sound:** The MT67 issues a short beep to indicate a good read.
2. **Vibrating:** The MT67 vibrates to indicate a good read.
3. **LED:** The blue LED on the MT67 flashes once to indicate a good read.



Encoding

Choose a character encoding to interpret barcode data.

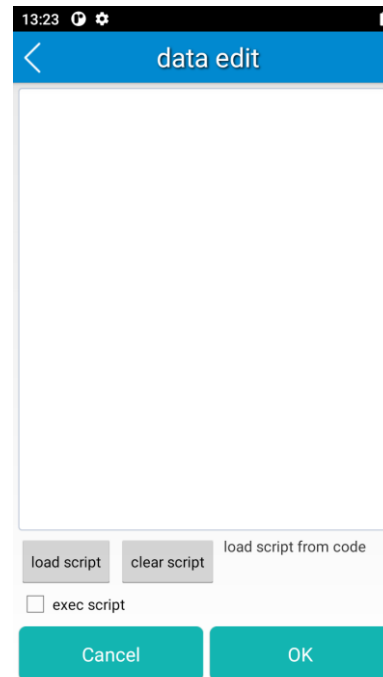
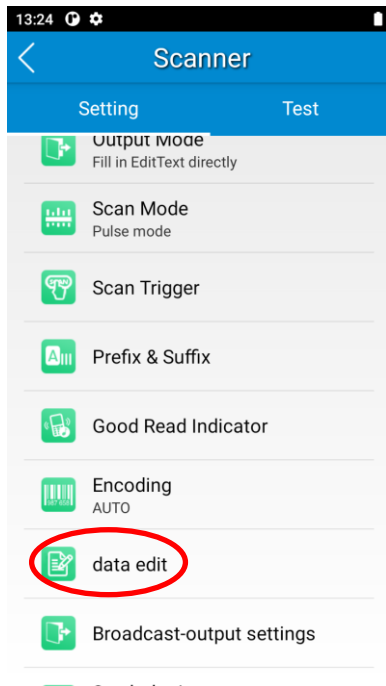
1. **AUTO:** The terminal determines automatically if the target barcode uses UTF-8, GBK, ISO-8859-1, or windows-1251 encoding. If the terminal produces the wrong output, you may need to choose or enter a specific character encoding.
2. **UTF-8:** Dominant Unicode encoding.
3. **GBK:** A character encoding for Chinese characters.
4. **ISO-8859-1:** A common character encoding that covers Western European languages.
5. **Windows-1251:** A character encoding designed to cover language that uses the Cyrillic alphabet such as Russian, Bulgarian, Serbian Cyrillic, and other languages.
6. **Other:** Enter a different character encoding when UTF-8, GBK, ISO-8859-1, and windows-1251 are not applicable. If the terminal does not support the encoding entered, this setting will fail.



Data Edit

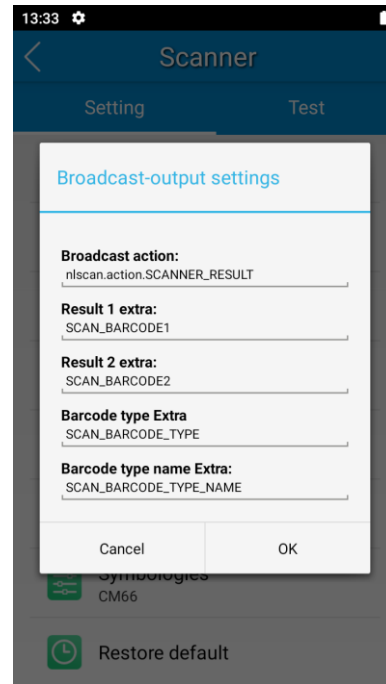
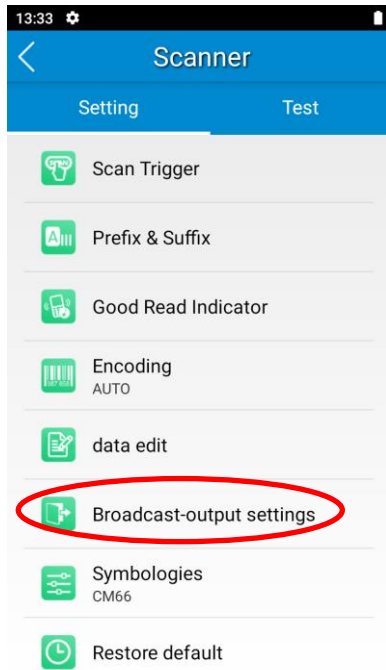
This feature allows you to edit barcode data with a script.

Tap “load script” and then select the desired script file on the terminal, or scan the 2D barcode that contains a script, to load the script. Then select “exec script” and tap “OK”.



Broadcast-output Settings

When using broadcast as the scan output method, the MT67 will output the scan information with the specified broadcast ACTION and EXTRA.



Symbologies

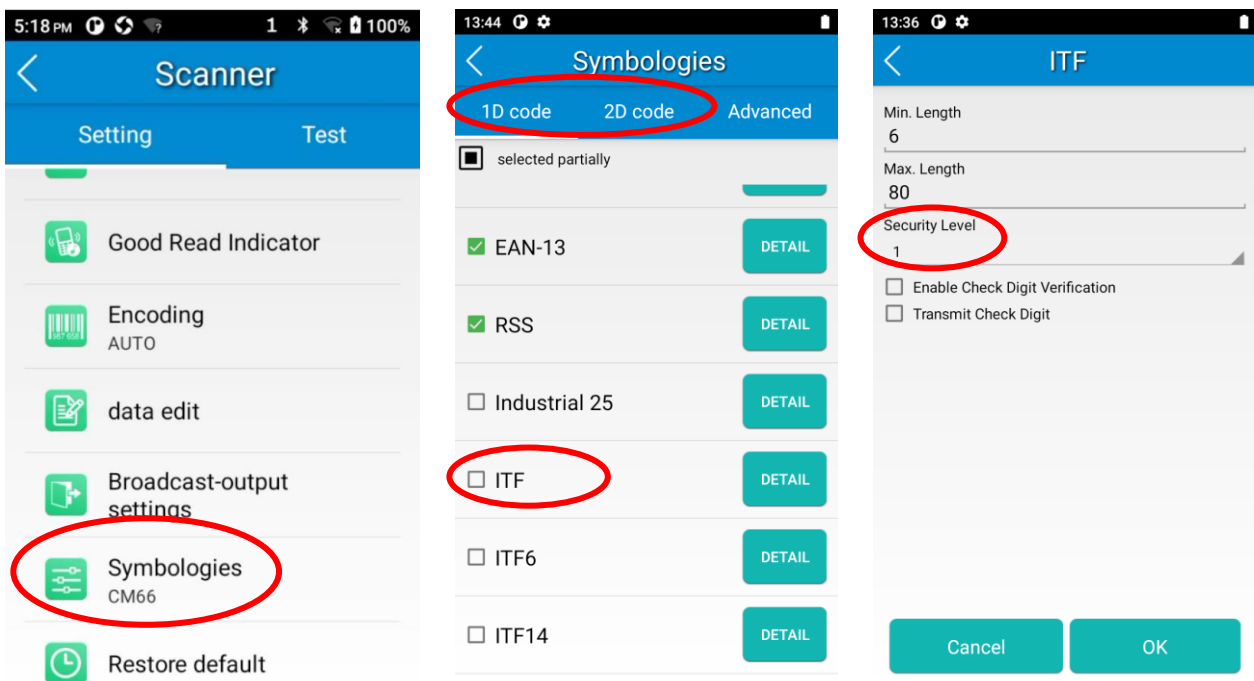
Note that supported symbologies depend on the scan engine integrated in the terminal. Here we will take CM66 for example.

1D code: Enable or disable 1D symbologies and set other barcode parameters.

Below are remarks for ITF codes:

- 1) The higher the security level, the lower the error rate of the ITF code.
- 2) The barcode reading performance at the higher security level is not as smooth as that at low security. Therefore, the default security level is 1. Increase the security level only when the error rate is high.

2D code: Enable or disable 2D symbologies and set other barcode parameters.



Advanced: The features listed here are designed to improve the scanning performance and energy efficiency of the terminal.

1. **Acuscan Decoding:** When selected, the terminal only decodes the barcode aimed squarely by the aiming pattern. It is advised to select it to ensure that only the desired barcodes are read if multiple barcodes are placed closely together.
2. **Multiple Barcodes:** When selected, the terminal can decode multiple barcodes at the same time, and the maximum number of the barcodes can be set per actual needs.
3. **Other:** Tap **DETAIL** to access the following parameter settings.

Noise Reduction: This feature is designed to reduce noise in images produced by the terminal. However, the terminal shows a slight decrease in scanning speed when using this feature. It is recommended to enable it only when necessary.

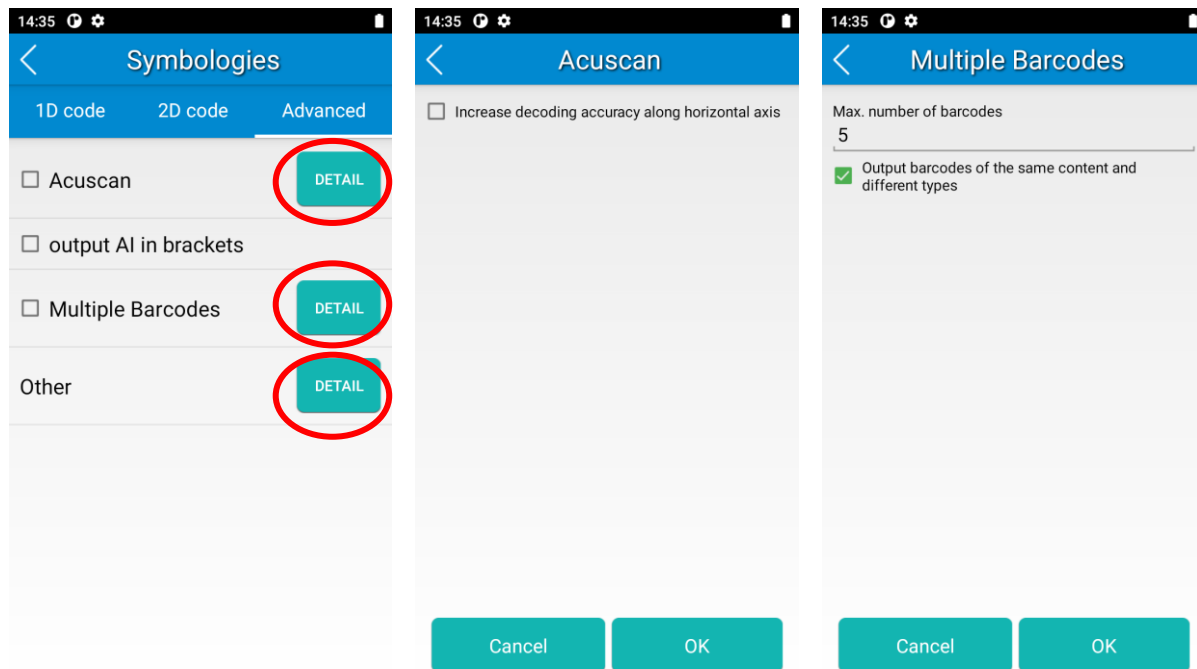
Exposure Level: Select high, middle, or low level per actual need.

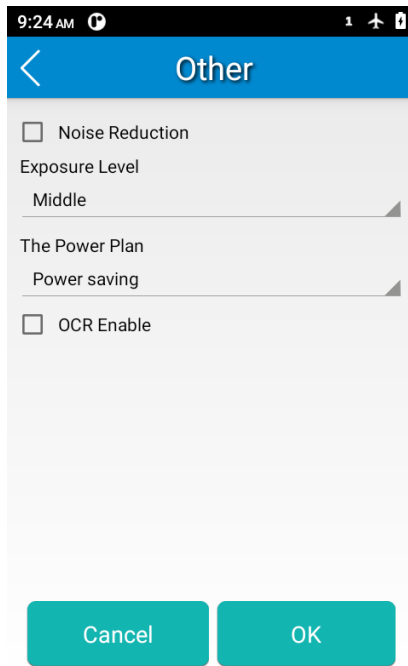
Power Plan: Two options are provided.

Power Saving: The terminal's built-in scanner turns off automatically after 3 seconds of inactivity.

High-performance: The terminal's built-in scanner turns off automatically after 15 seconds of inactivity.

OCR Enable: Select this check box when reading passports (compliant with ICAODoc9303 standards, TD1/TD2/TD3 supported).





Chapter 5 Bluetooth


Introduction

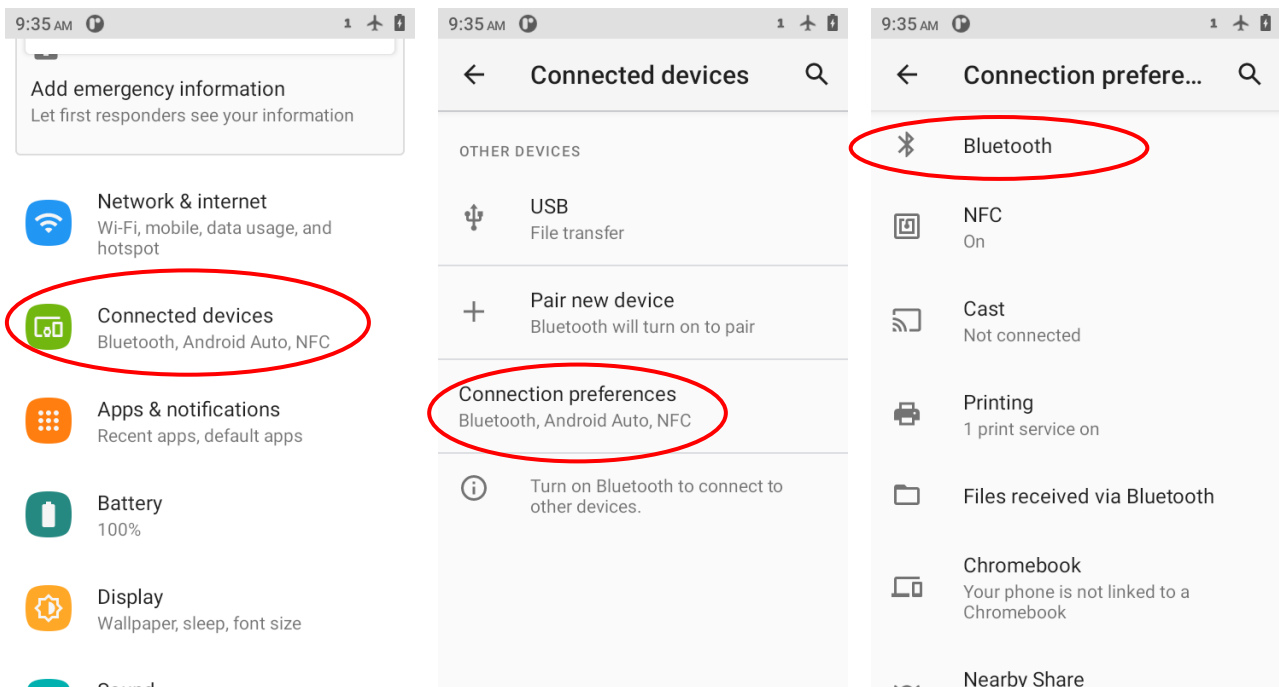
This chapter describes how to connect the MT67 to other Bluetooth devices.

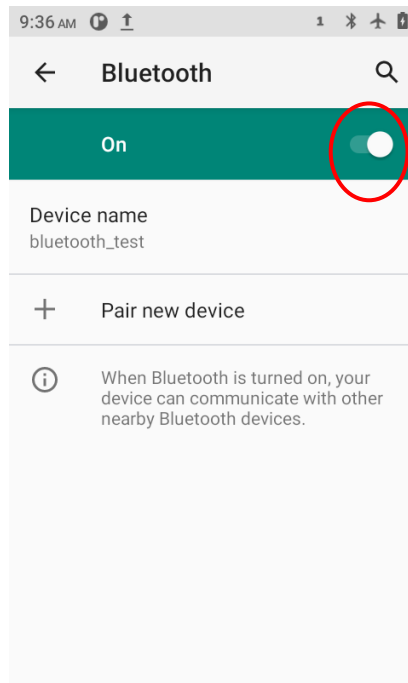
Pair Bluetooth


You can set up a Bluetooth connection between the MT67 and other Bluetooth devices, such as PC, and mobile phones. Note that the Bluetooth connection works better if there are no obstacles between them.


Before you can use a Bluetooth device with the MT67, you must first pair them.

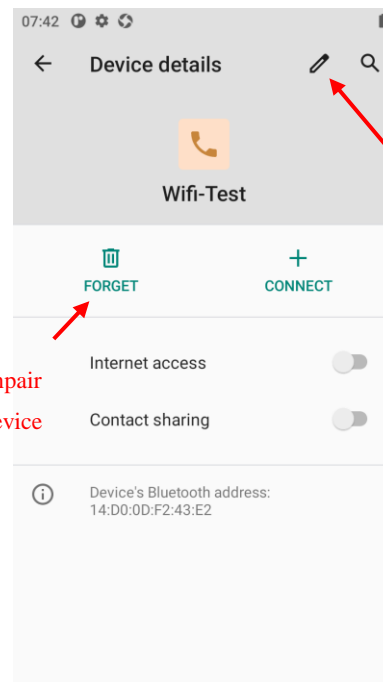
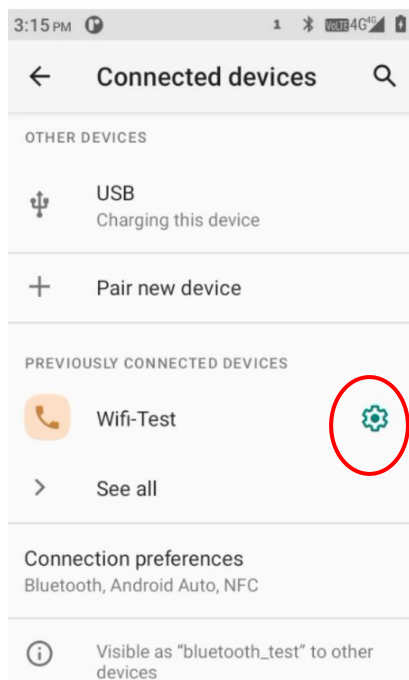
1. Make the Bluetooth device visible to the MT67.
2. Tap the app icon  then “Connected devices” -> “Connection preferences” -> “Bluetooth”, and turn Bluetooth on to search for available Bluetooth devices.
3. Select the device from the search results to pair.
4. If prompted, input the pairing code and then tap “OK”; or if the pairing code is given automatically, then tap “PAIR”.





Unpair/rename a paired Bluetooth device: To rename the paired Bluetooth device, tap  next to the device name ->

then tap  to edit its name manually-> tap "RENAME". To unpair it, tap "FORGET".




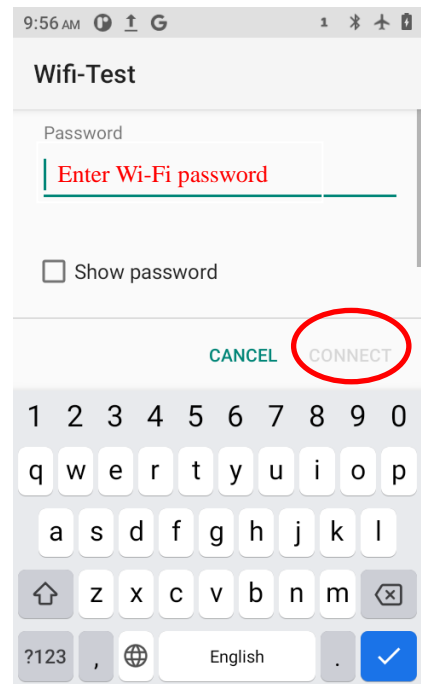
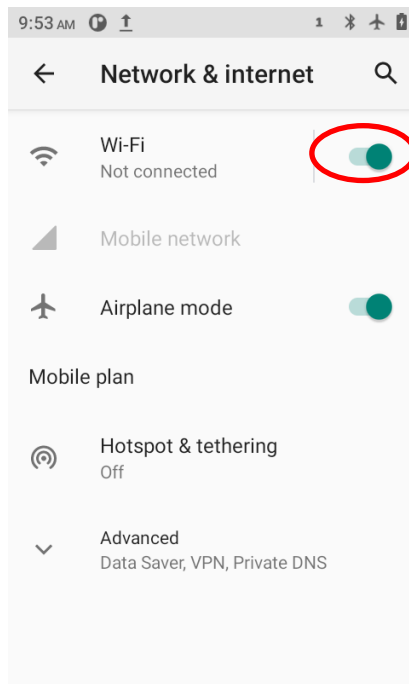
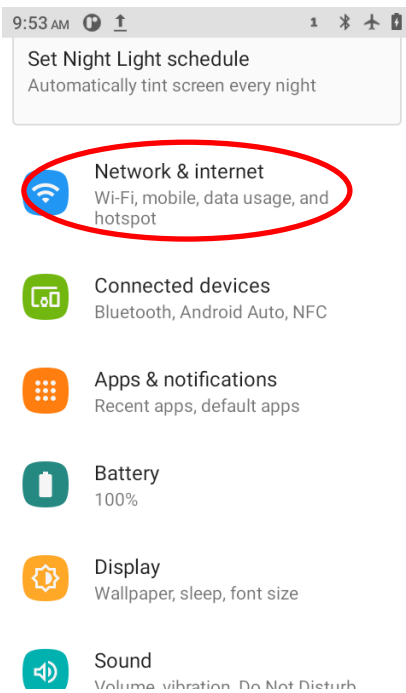
Chapter 6 Wi-Fi

Introduction

This chapter describes how to connect the MT67 to a Wi-Fi network.

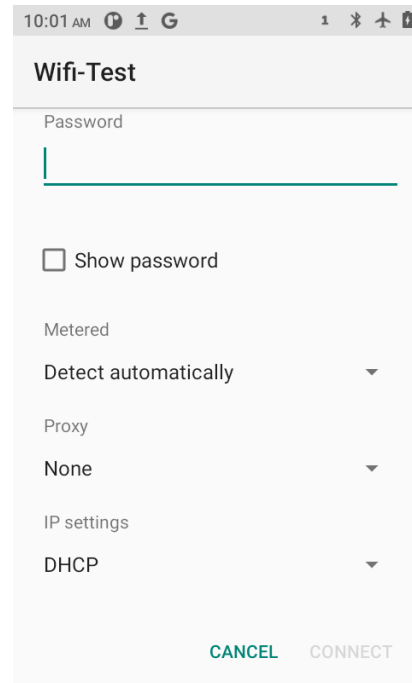
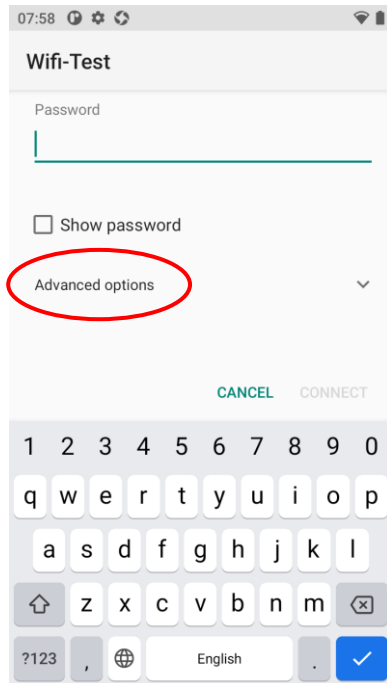
Wi-Fi Settings

1. Tap the app icon  then “Network & Internet” -> “Wi-Fi”, and turn Wi-Fi on to find available Wi-Fi networks. If Wi-Fi is already ON, then the terminal will automatically search for available networks.
2. Tap a network and then enter the password.
3. Tap “CONNECT”.



WI-FI Settings

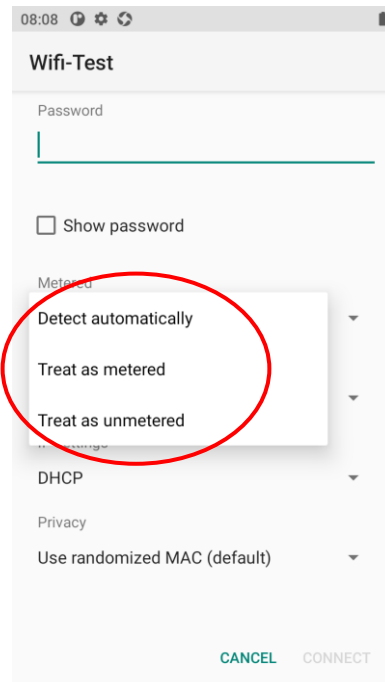
To set the “Metered”, “Proxy”, or “IP setting”, follow the first two steps of joining a Wi-Fi network, tap “Advanced options”, then select the desired option.



Metered

“Metered” can help us better understand the WI-FI network data usage of MT67.

1. **Detect automatically:** Set a Wi-Fi connection as metered or unmetered automatically.
2. **Treat as metered:** Set the Wi-Fi connection to a limited data plan. You can set your connection as metered to avoid additional charges.
3. **Treat as unmetered:** Set the Wi-Fi connection to unlimited data access.

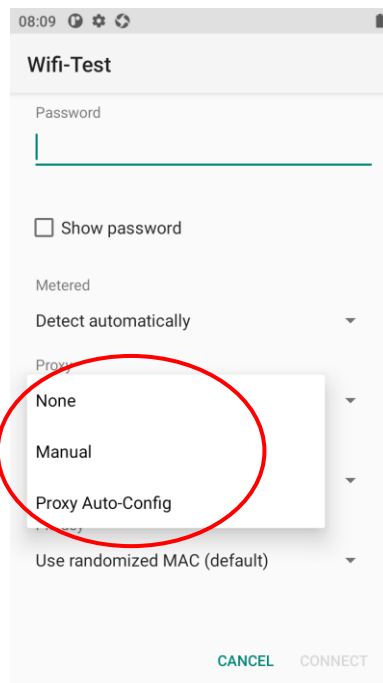


Proxy

The MT67 Provides three types of Proxy: “None”, “Manual”, and “Proxy Auto-Config”. To use the proxy function, you need a proxy server first. The address and port of the proxy server should be consulted with the proxy service provider.

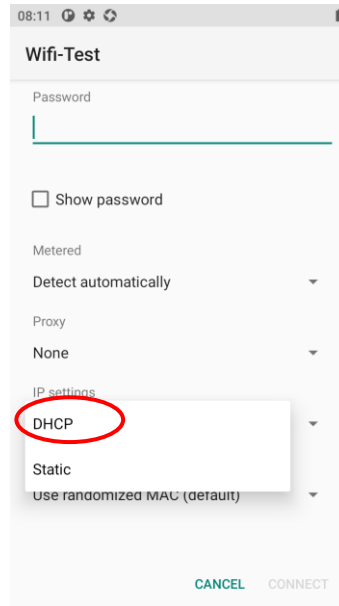
With the “proxy” setting, you can change from **direct access** to **transit through a proxy server to access the network**. Through the network strategy of the proxy server, the firewall can enhance the privacy and security of the network.

- 1) **None:** No proxy.
- 2) **Manual:** Manually enter proxy server settings.
 - The following parameters are needed to be filled:
 - a. Proxy hostname
 - b. Proxy port
 - c. The bypass proxy for: Such as local addresses, and LAN addresses.
- 3) **Proxy Auto-Config:** Automatically detect the appropriate settings for your network



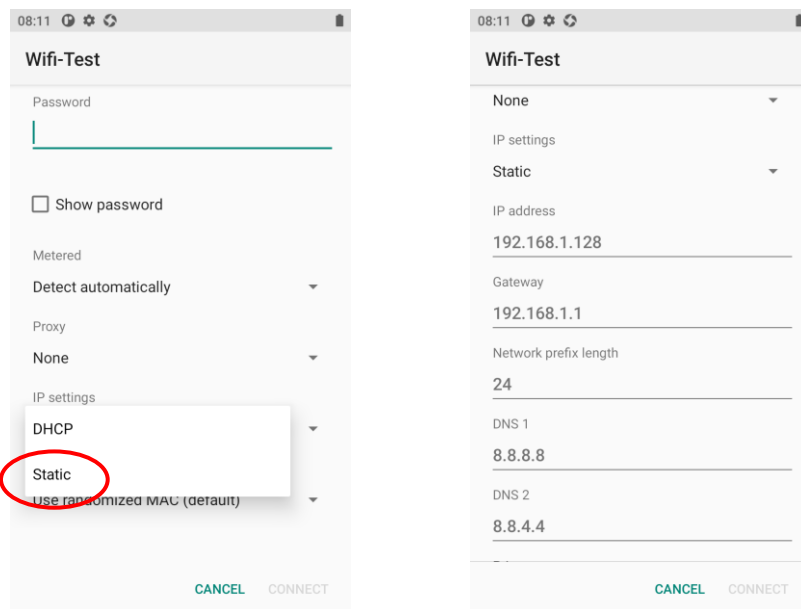
IP Settings

1. Select “DHCP” to automatically obtain an IP address from the router through the DHCP service. The DHCP service should be turned on in the router, otherwise, the IP address cannot be obtained.





2. Select “Static” to customize the IP address. This will help to avoid the network failure caused by the duplication of the IP address in the LAN or the disabling of the DHCP service in the router etc.

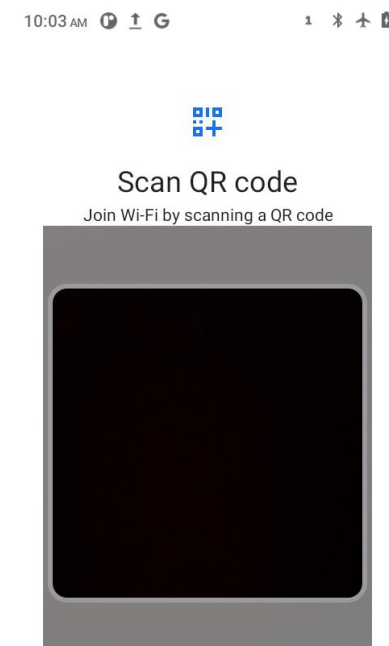
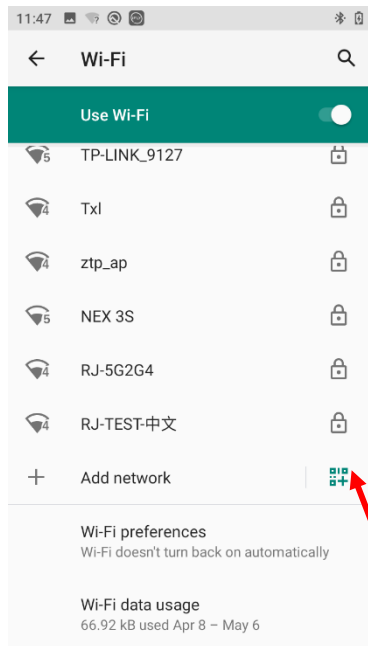
Note: To manually set a static IP address, you need to set it according to the range of IP addresses set in the router.




Add Network

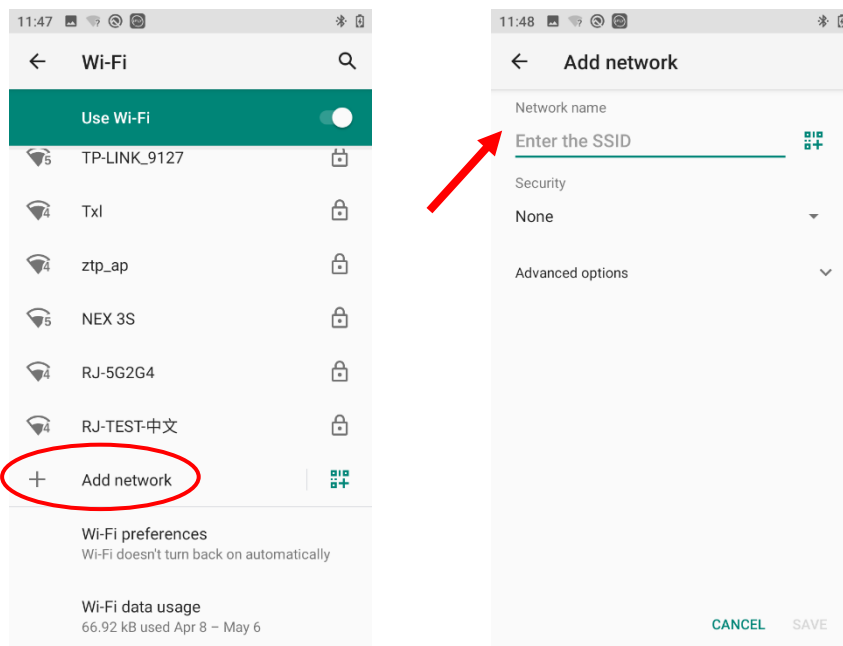
Tap the app icon  then “Network & Internet” -> “Wi-Fi” -> “Add Network”. There are two methods to add a network:

1. Method One: Tap  to add a network by scanning a QR code.



2. Method Two: Manually add network

Step 1: Tap  and fill in the network name you want to add.

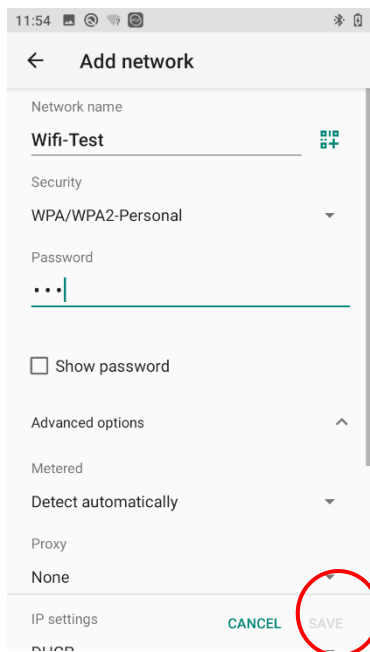


Step 2: Select the corresponding security option according to the encryption type of the router.


Supported security types: Enhanced Open, WEP, WPA/WPA2-Personal, WPA3-Personal, WPA/WPA2/WPA3-Enterprise, WPA3-Enterprise 192-bit.

Step 3: Enter the password and complete the other parameter per the actual network configuration.

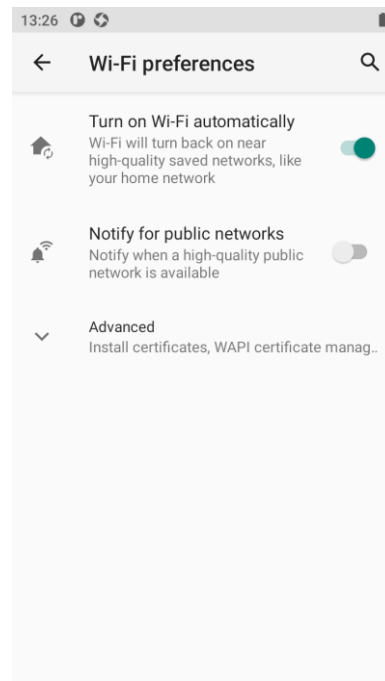
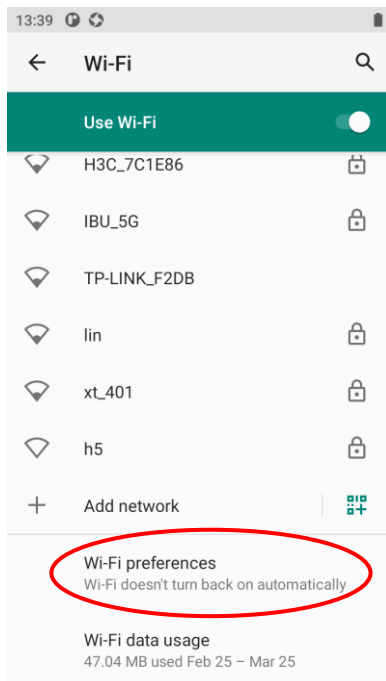
Then click "Save" to complete the Wi-Fi addition.




Wi-Fi Preferences

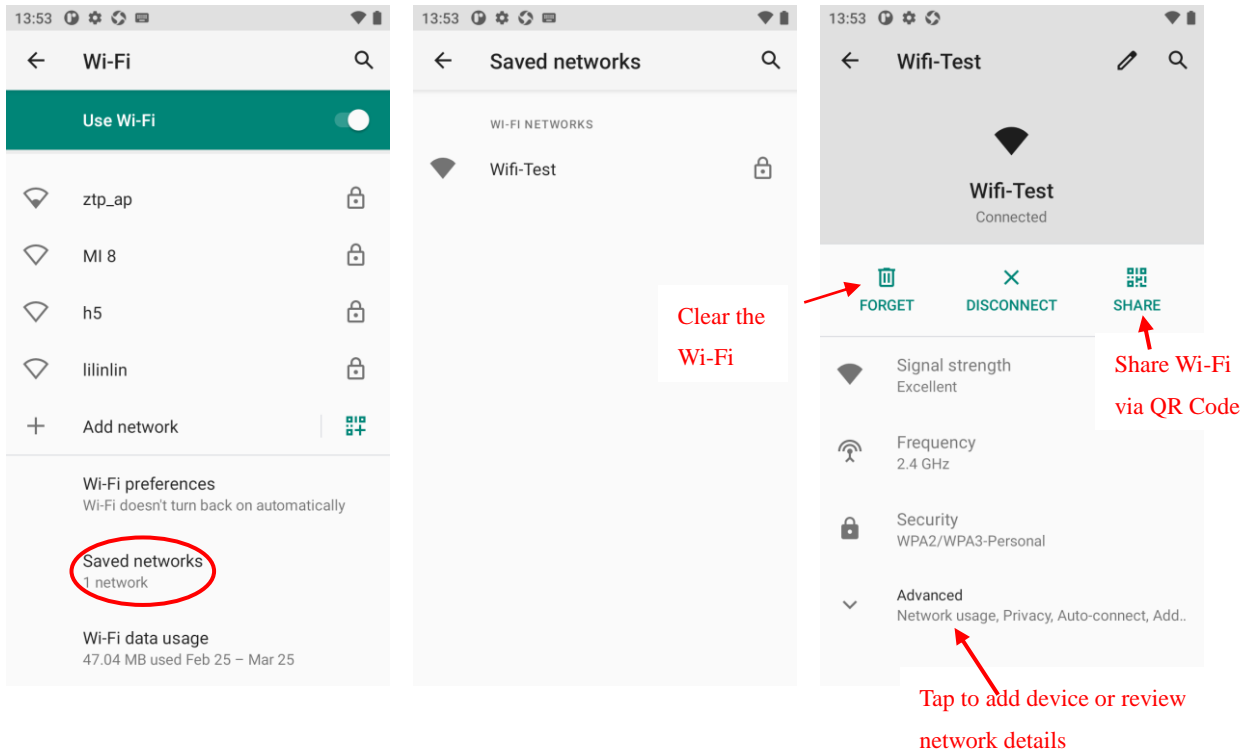
Tap the app icon  then “Network & Internet” -> “Wi-Fi” -> “Wi-Fi preference”, and then you can enable functions like **turn on the WI-FI automatically** and **Notify for public networks** per actual need.

- a) **“Turn on WI-FI automatically”**: Wi-Fi will automatically connect to a saved high-quality network.
Note: To enable this function, you need to turn on the WLAN first.
- b) **“Notify for public networks”**: Notify when a high-quality public network is available.




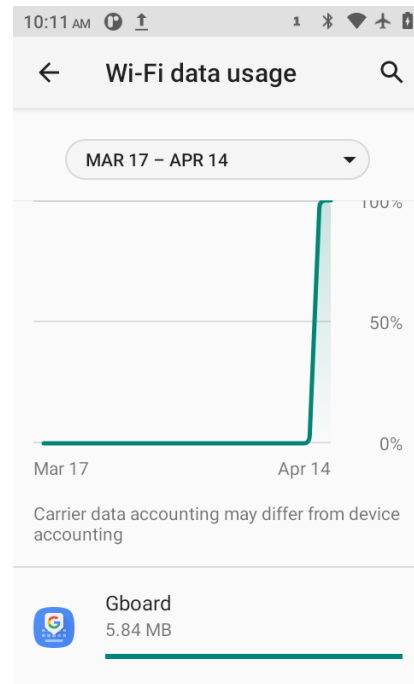
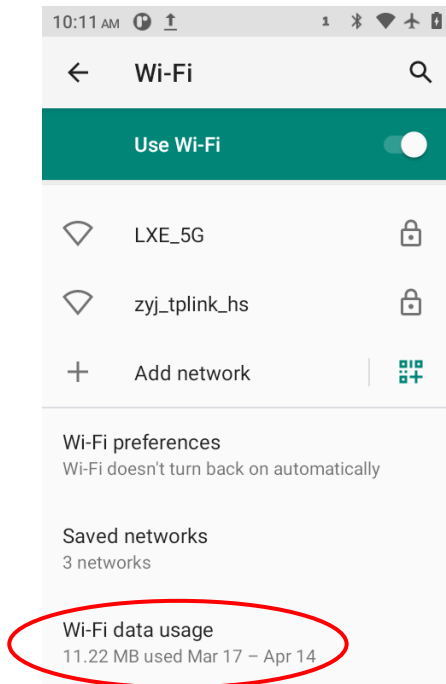
Saved Networks

Tap the app icon  then "Network & Internet" -> "Wi-Fi" -> "Saved networks", then you can view the networks saved, or set configurations like clear, connect, and share the network per your needs.



Wi-Fi Data Usage

Tap the app icon  then “Network & Internet” -> “Wi-Fi” -> “Wi-Fi data usage”, and then you can review the Wi-Fi data usage, including **carrier data accounting** and **APP data usage**.



Chapter 7 Mobile Network

Introduction


The MT67 can also use 4G network to connect to the internet. To establish 4G connection, you must have a SIM card installed in your MT67.

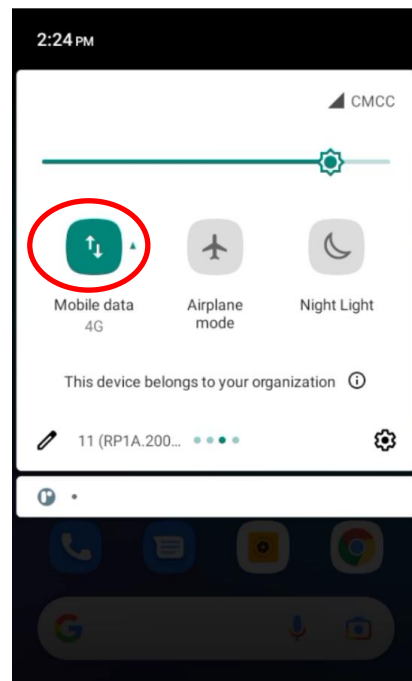
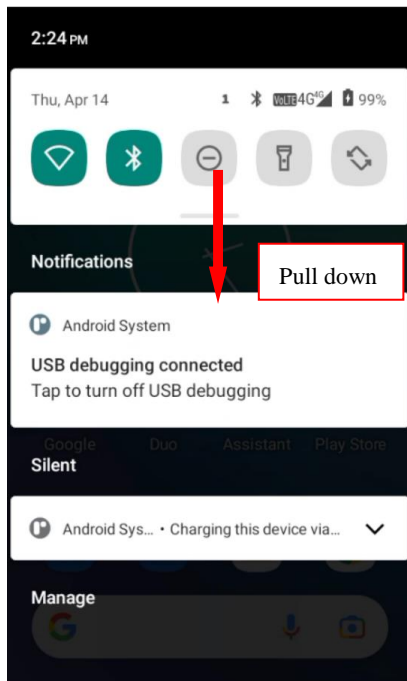
This terminal can support 4G/3G/2G network provided by Telecom, Unicom or Mobile

Mobile Network Settings

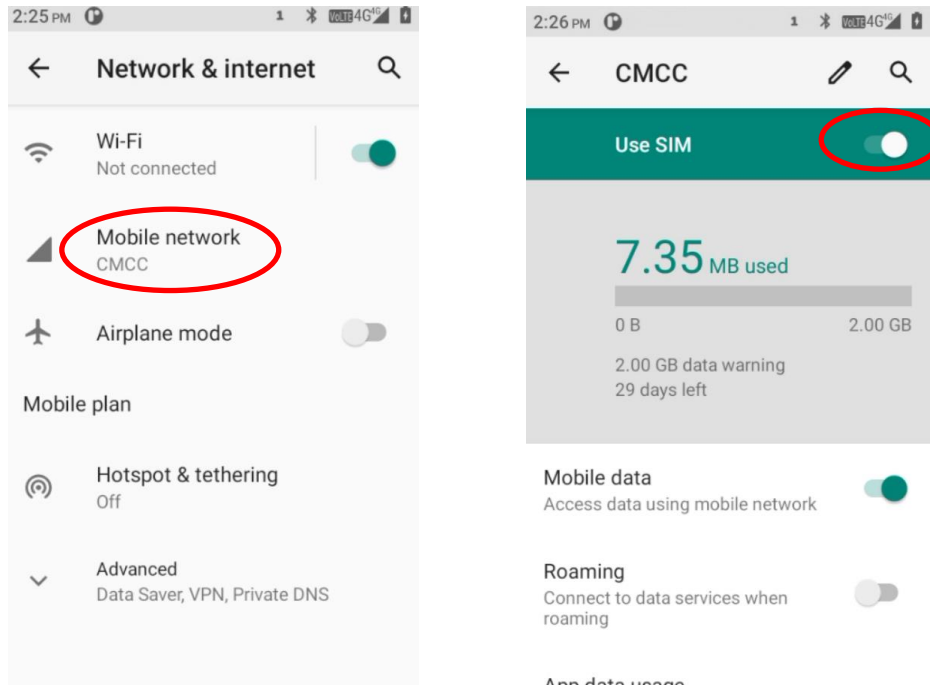
If no Wi-Fi networks are available, or if you have turned Wi-Fi off, then the MT67 connects to the Internet via your cellular data network when available.

Turn on the cellular network:

1. Swipe down from top to bottom on the home screen and it will display the drop-down mean, Find  and tap it to turn Cellular data on.
2. Or, go to Settings-> "Network & Internet" -> "Mobile network" -> turn on "Use SIM"



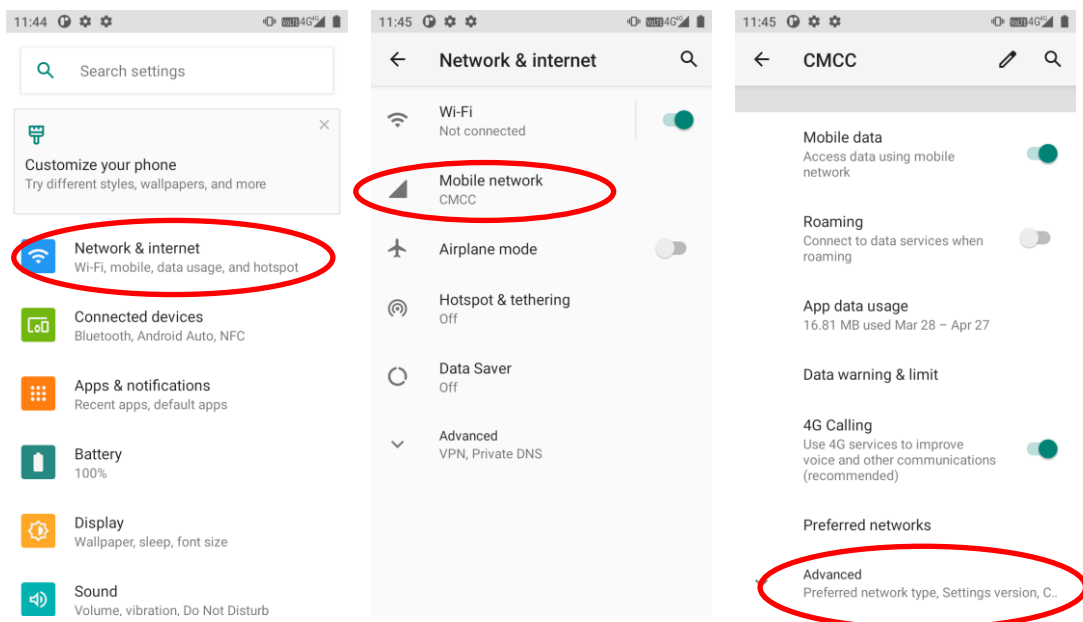
Option Two:

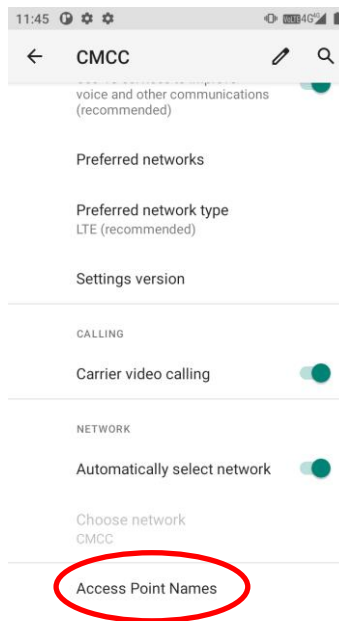


APN Settings

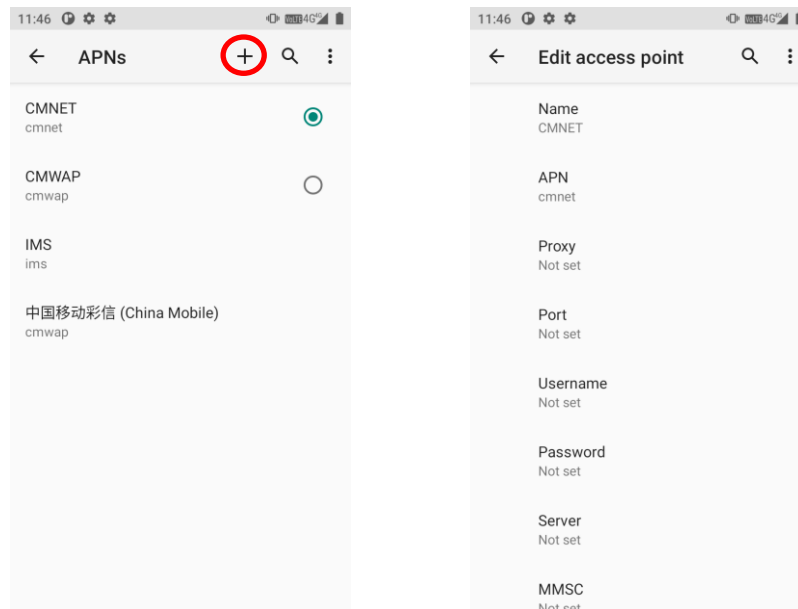
If you cannot connect to the internet when using your terminal's cellular data, you may need to change your APN settings on the MT67 to fix it:

1. Go to Settings -> "Network & Internet" -> "Mobile network" -> "Advanced" -> "Access Point Names".





2. Tap **+** in the top right corner of the screen or tap the carrier of your SIM card on the screen. Then manually enter the APN settings. You can contact your carrier or visit their website to get the correct APN settings, or check the APN settings on a mobile device that can access the internet using the SIM card.



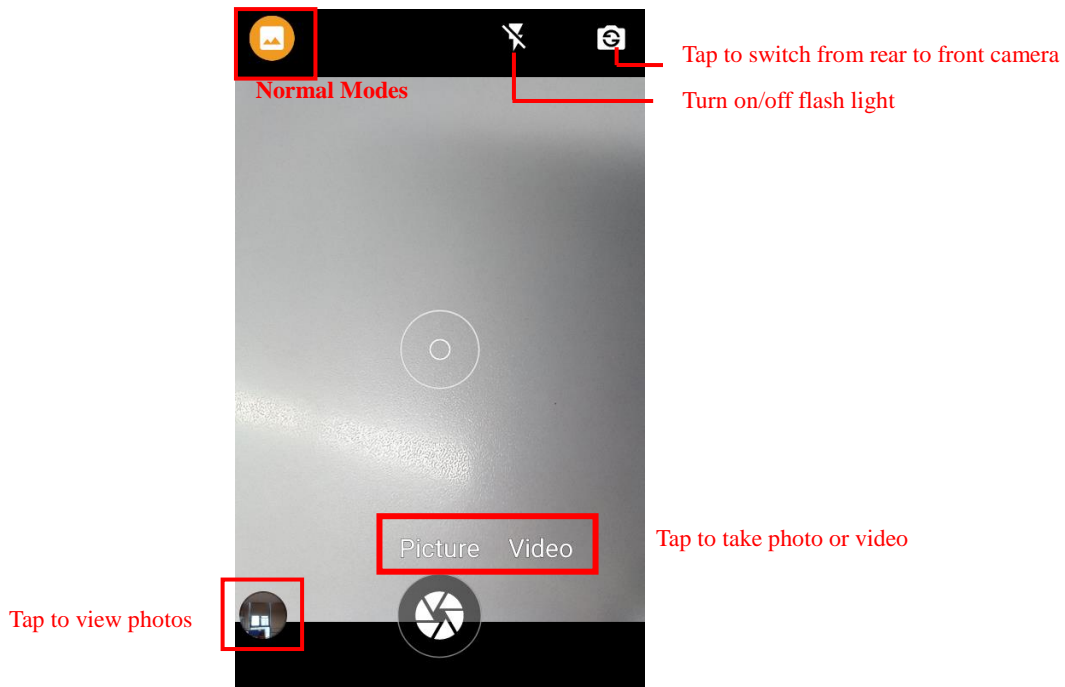
3. Press the Return key on the MT67 to go back to the previous screen and then select the APN you just added.



Chapter 8 Others

Camera



Tap the app icon **Camera** to launch the Camera app.




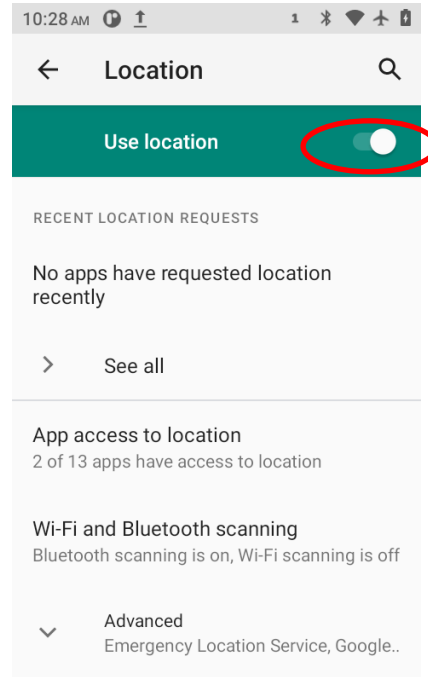
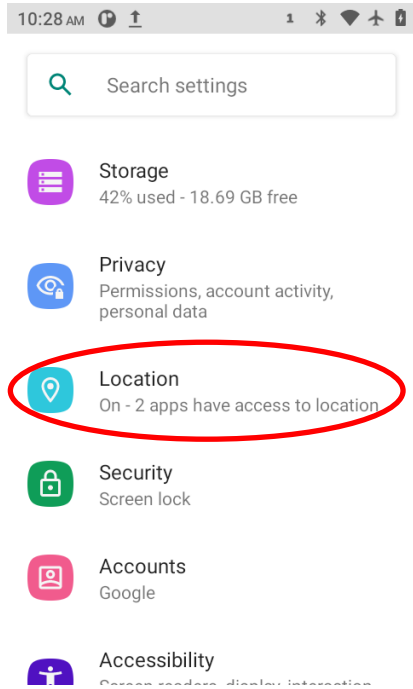
Tap the normal modes icon  -> Tap settings , then the user can set parameters such as scene mode, anti-shake, self timer, picture size, ZSD, white balance, ISO, Anti flicker, etc.

You can also download a camera app from the internet or develop an app for the camera feature.




GPS

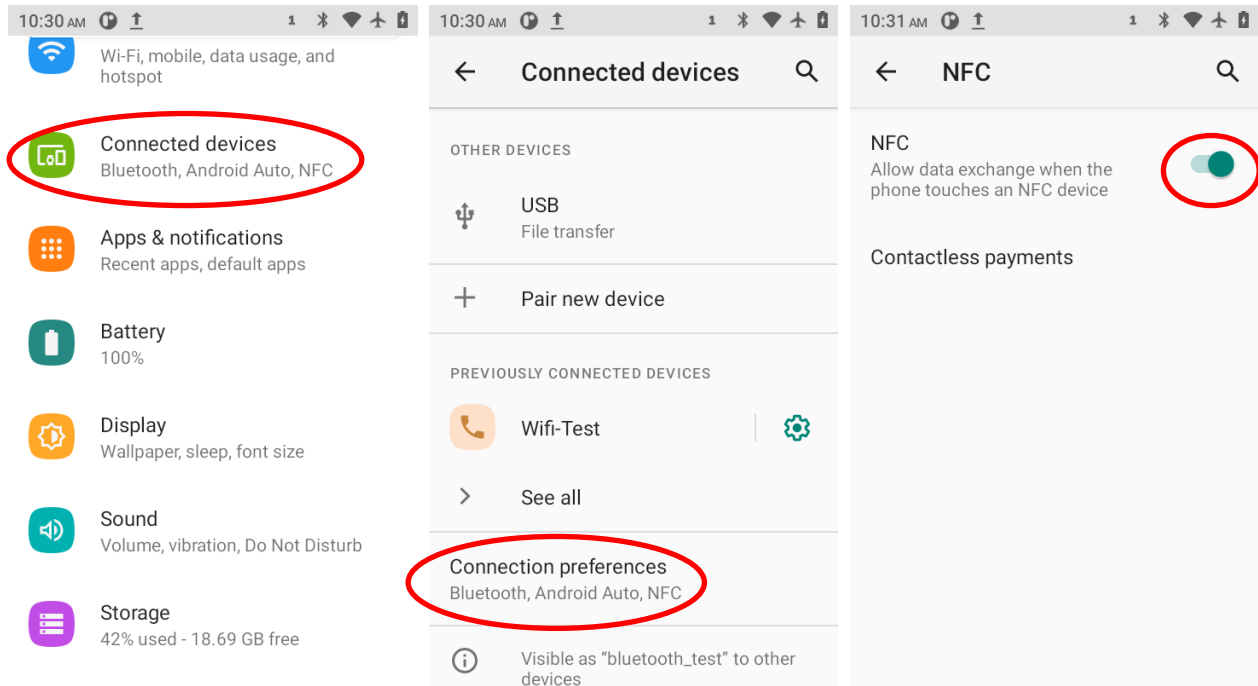
Tap the app icon  -> "Location", and then turn Location on.



NFC

To enable the NFC feature, tap the app icon  -> "Connected devices" -> "Connection preferences" -> "NFC", and then turn on NFC.

Then you can install an NFC writer on the MT67 to read and write NFC tags.





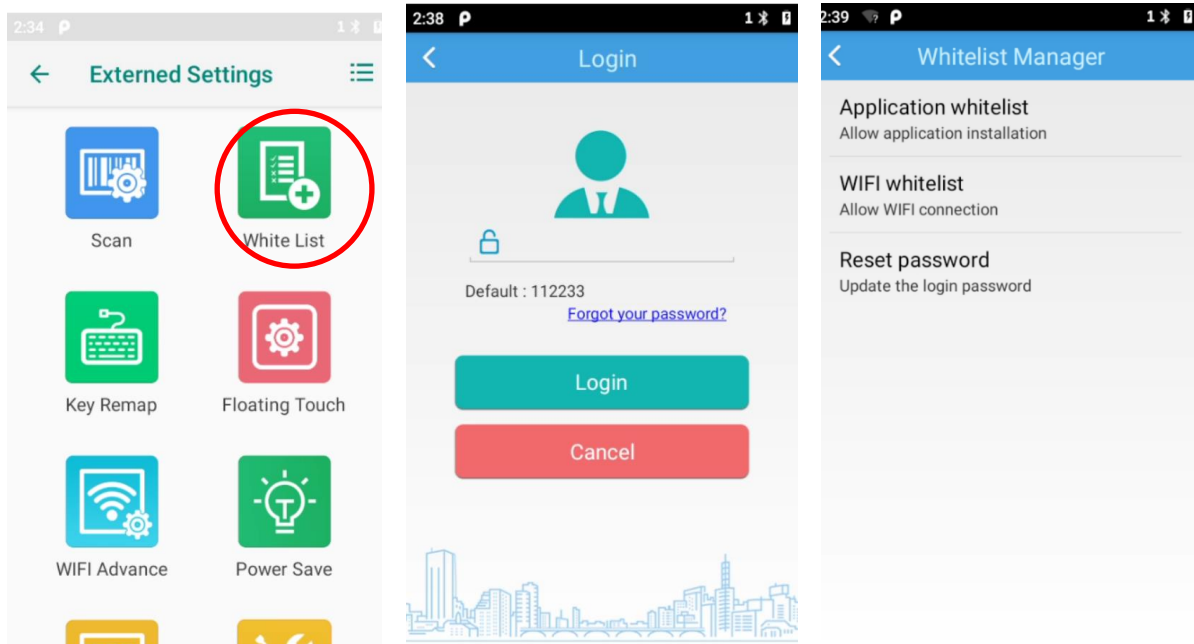
Chapter 9 Whitelist Manager

Introduction

The Whitelist Manager app is used to specify the apps that users can install on the MT67.

Logging in to Whitelist Manager

Tap the Quick Settings app icon  on the Home screen then , enter the password (default: 112233), and tap “Login” to log in to the whitelist manager. Then set up your whitelist as per actual needs.



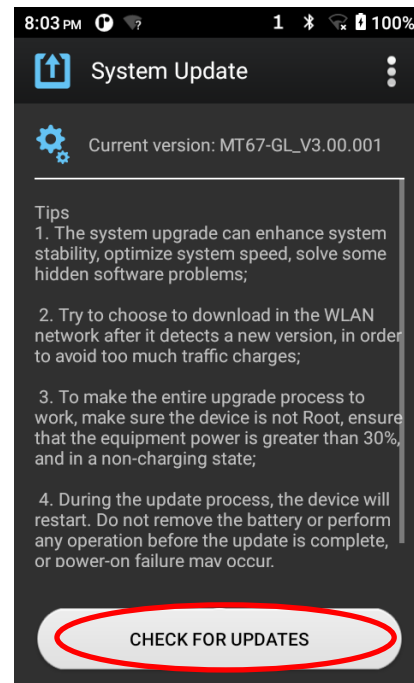
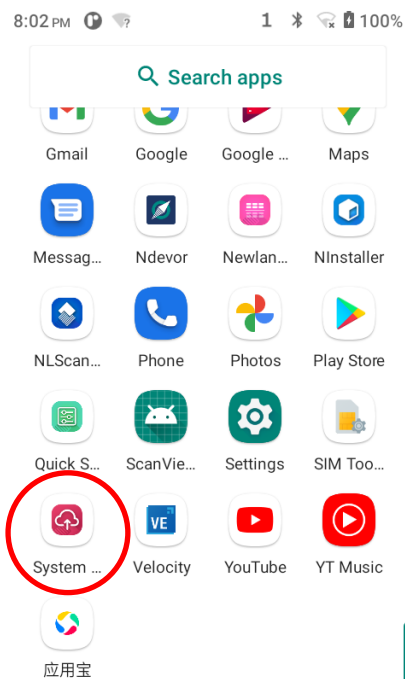
Chapter 10 System Update

Introduction

This chapter introduces two methods to update the system software of the terminal: Online update and local update.

Online Update


Update the system online: Tap system updates icon  ->“CHECK FOR UPDATES”.



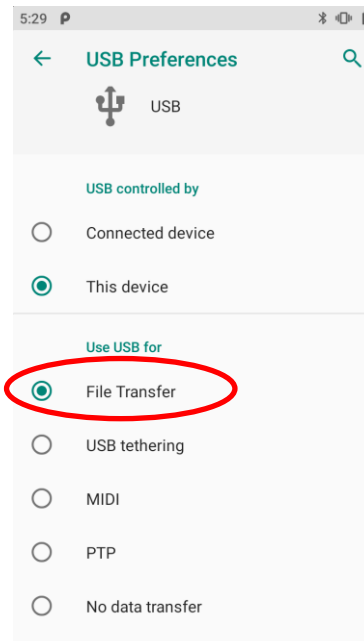
Local Update

Zip File to the MT67 Drive


1. Connect the terminal to the PC with the included USB cable. Swipe from top to bottom with one finger in one smooth motion to open the notification bar. Tap “USB for file transfer”. Then select “Transfer files”.


 MT67-GL_V3.00.002

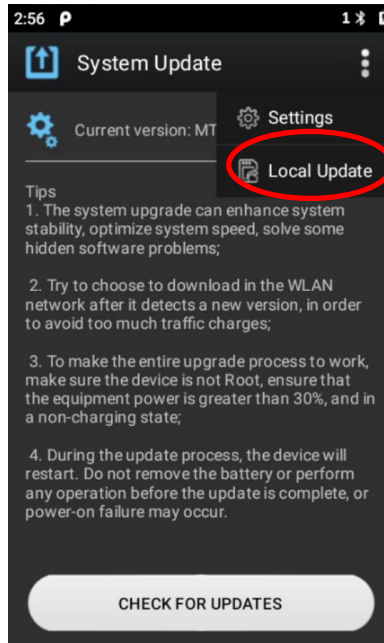
The name might be different based on each version



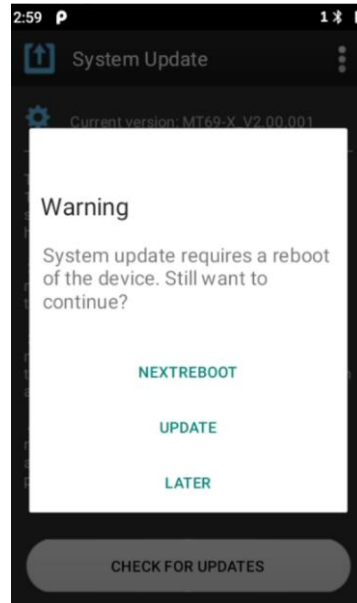
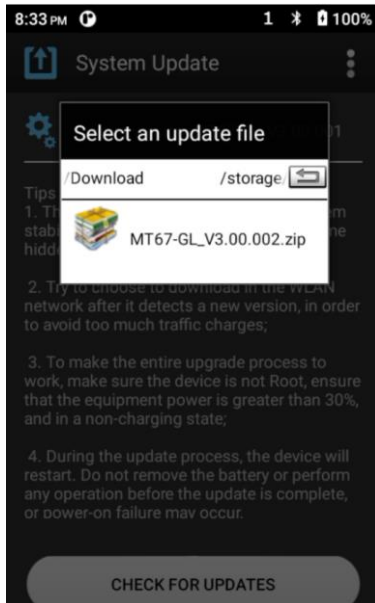
2. Copy the updated zip file to the MT67 drive or MT67’s Micro SD card.

3. Tap  to access the System Update screen.

4. Tap  in the top right corner of the System Update screen then select “Local Update”.

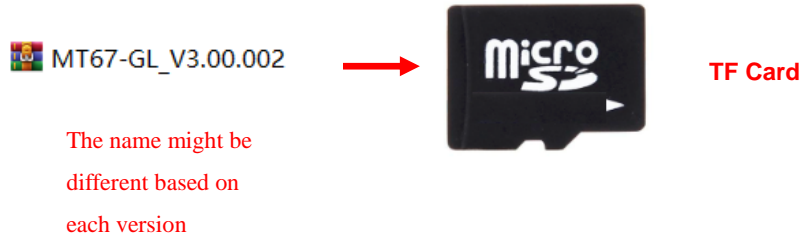


5. Select the update zip file. Then select “NEXTREBOOT” or “UPDATE”.




Zip File to TF Card


1. Copy the updated zip file to TF Card.

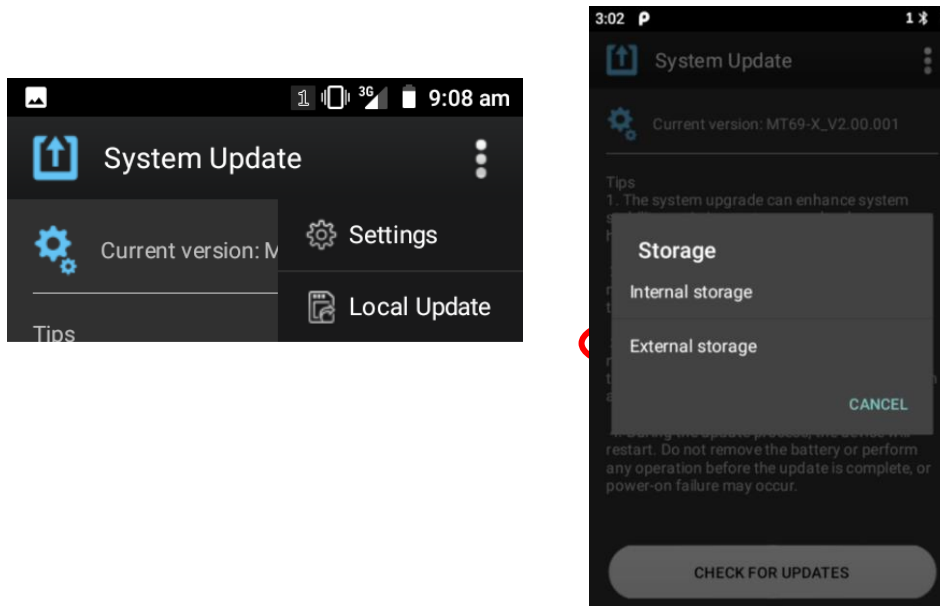


2. Insert the TF card to the MT67 and then power on the terminal.

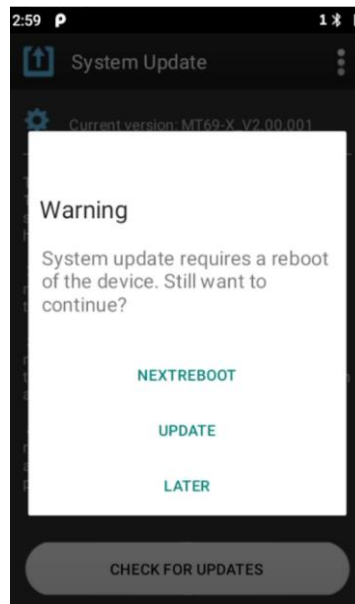
3. Tap  to access the System Update screen.



4. Tap  in the top right corner of the System Update screen, and then select “Local Update” -> “External Storage”.



2. Select the update zip file. Then select “NEXTREBOOT” or “UPDATE”.



Chapter 11 App Development Guide

Development Environment

The MT67 runs on the Android 11 operating system, so you should use Android SDK 11 or lower when developing apps for the MT67.

Use of Non-standard Interfaces

See *Newland Android PDA API Handbook*.

Chapter 12 Maintenance & Troubleshooting

Introduction

This chapter includes important safety and handling information and provides troubleshooting solutions for issues that might occur when using the terminal.

Important Safety & Handling Information

Disassembly and Retrofit

Do not attempt to disassemble or retrofit the terminal yourself. Unauthorized disassembly or retrofit will void the warranty.

External Power Supply

Use only the included AC adapter. Otherwise, there is a risk of damage to the terminal.

Abnormal Situation

Keep the terminal away from fire or heat sources. If there is an unusual odor, overheating or smoke during charging, immediately cut off the power and disconnect the AC adapter, and contact your dealer or Newland customer service center. Continued use in this case may result in fire or electric shock.

Drop Damage

If the terminal is damaged due to a drop from a high place, immediately cut off the power and contact your dealer or Newland customer service center.

LCD Screen

Do not press against or strike the LCD screen. Otherwise, it may damage the screen. When handling a cracked or shattered screen, do not touch the liquid that has leaked from it to avoid skin burn or infection.

Stacking Heavy Objects

Do not place heavy objects on the terminal as those objects may fall and cause injury.

Mounting Location

Do not place the terminal on unstable or uneven surfaces as it may fall and cause injury. Do not expose the terminal to humidity or dust as this may cause fire or electric shock. Do not expose the terminal to direct sunlight for extended periods.

Wireless Functionalities

Do not use the terminal's wireless functionalities where wireless device use is prohibited or where it may cause interference or danger, such as in aircrafts, petrol stations.

Use & Maintenance

- ✧ If the terminal cannot be switched on after experiencing a sudden or unexpected power loss or other abnormalities, remove and then reinstall its battery to reset the terminal.
- ✧ Do not throw, drop or strike the terminal. Doing so may damage the LCD display, interrupt running programs, cause data loss in memory and result in malfunction.
- ✧ Clean the scan window regularly. Do not touch it with hands. Scratched or smudged window may degrade reading performance.
- ✧ Do not tap the touch screen with sharp objects. Doing so may damage the screen or cause internal short circuits.
- ✧ Use only a dry soft cloth to clean the terminal. Cleaning it with wet cloth or benzene/ thinner/ other volatile chemicals may deform and shorten the service life of the keypad and shell of the terminal.
- ✧ Do not place the terminal face down on any surface, or there might be misoperations.
- ✧ Sudden temperature drops may cause condensation on the shell which could cause malfunction. Care should be taken to avoid condensation. If condensation occurs, dry the terminal before use.

Battery Safety Guidelines

- ✧ **Do not dispose of batteries in a fire as they may explode.**
- ✧ The battery can be charged and discharged over 300 times. If the battery life is unreasonably short, please replace the battery with a new one.
- ✧ Use only the battery and AC adapter provided by Newland.
- ✧ Do not continue to charge a battery that is fully charged. Overcharging will shorten battery lifespan.
- ✧ Charge the device before the battery is exhausted; Excessive battery discharge will have a bad impact on the device. In severe cases, it may cause the device to fail to boot normally.
- ✧ Avoid charging in a low or high-temperature environment. The most suitable temperature for charging is at 5 °C–45 °C (41 °F–113 °F), and it cannot be charged below 0 °C (32 °F).
- ✧ If the device is not used for a long time, it will discharge slowly. During the storage, it is recommended to shut down the device and regularly recharge it (at least every six months). Ideally, Battery should be stored between 30% to 50% state of charge.

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- ❖ Do not use damaged or faulty AC adapters or batteries. If the battery is swelling, bulging, or having other abnormalities, please stop using it immediately.
 - ❖ **Properly dispose of and recycle batteries. Do not dispose of them as household garbage.**

Troubleshooting

Problem		Possible Cause & Solution
Type	Description	
Keypad	Unresponsive keypad or incorrect response to any key entry.	This problem may be caused by unreliable cable connection between keypad and mainboard or keypad malfunction. Please contact Newland after-sales service.
Battery	The charging LED is OFF when charging.	Ensure the AC adapter is plugged in properly.
	Stop charging or charging slowly in a low-temperature environment.	Charging protection is enabled when the temperature is lower than 0 degrees Celsius. To continue charging at normal speeds, please move to a warmer environment before charging your device.
	Noticeably short battery life.	<ol style="list-style-type: none"> 1. Check the battery level. If the battery is almost depleted, recharge it. 2. Replace the battery if it is faulty.
	Fully charged battery is depleted after the terminal is switched on.	If the battery is faulty, replace it with a new one.
USB	USB communication failure	<ol style="list-style-type: none"> 1. Ensure that the USB cable connections are secure. 2. Ensure that there is no contaminant inside the Micro USB port. 3. If the problem remains, please contact the after-sales service center.
LCD Screen	No display	<ol style="list-style-type: none"> 1. Ensure the terminal is switched on. 2. If the terminal is in sleep mode, press the Power key to wake it up. 3. Check the battery level. If the battery is depleted, recharge it. 4. Ensure that the battery is properly installed. 5. Replace the battery if it is faulty. 6. If the problem remains, please contact the after-sales service center.
System	Cannot switch on	<ol style="list-style-type: none"> 1. Check the battery level. If the battery is depleted, recharge it. 2. Switch the terminal on after using the included AC adapter to connect it to a power outlet. If the problem disappears, then continue to charge the terminal. If the problem remains after charging the terminal for a while, replace the battery.
	System halted	<ol style="list-style-type: none"> 1. The problem may be caused by bugs of downloaded apps. Ensure that only reliable apps are used. 2. The problem may be caused by a sudden or unexpected power loss. Remove and then reinstall its battery to reset the terminal.

FCC Warning

FCC Warning: This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: -- Reorient or relocate the receiving antenna. -- Increase the separation between the equipment and receiver. -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. -- Consult the dealer or an experienced radio/TV technician for help.

FCC RF warning statement: The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

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