



Newland

SCANNING MADE SIMPLE

Newland Android Mobile Computer APP User Guide

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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.

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Revision History

Version	Description	Date
V1.0.0	Initial Release.	2020-05-22
V1.0.1	Add descriptions about Whitelist Manager, Scanning Barcodes, Special Dialer, System Update, NLScan Demo, WIFI Advance, Device Information, System Settings, Backup Recovery.	2022-05-10

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Chapter 1 About This Guide

Introduction

This guide provides instructions for programming and operating the APPs developed by Newland (hereinafter referred to as “Newland Apps”).

The document includes:

1. How to install and uninstall the Newland Apps.
2. How to use Newland Apps.

Chapter Descriptions

❖ <i>Chapter 1 About This Guide</i>	Provides a general description of this manual.
❖ <i>Chapter 2 Newland Installer</i>	Provides the introduction about Newland Installer.
❖ <i>Chapter 3 Installing/Uninstalling the Apps</i>	Describes how to install/uninstall the Newland apps.
❖ <i>Chapter 4 Floating Button Setting</i>	Explains how to use Floating Button functionality.
❖ <i>Chapter 5 Key Remap</i>	Explains how to use Key Remap functionality.
❖ <i>Chapter 6 Decode Output Settings</i>	Explains how to set Decode Output configurations.
❖ <i>Chapter 7 Clean Memory</i>	Explains how to use Clean Memory functionality.
❖ <i>Chapter 8 Admin Tool</i>	Explains how to use the Admin Tool.
❖ <i>Chapter 9 Whitelist Manager</i>	Explains how to use the Whitelist Management tool.
❖ <i>Chapter 10 Scanning Barcodes</i>	Provides the instructions as to how to scan 1D/2D barcodes and how to program the scanner.
❖ <i>Chapter 11 Special Dialer</i>	Explains how to use the Special Dialer tool.
❖ <i>Chapter 12 System Update</i>	Explains how to update the system.
❖ <i>Chapter 13 NLScan Demo</i>	Explains how to use the NLScan Demo tool.
❖ <i>Chapter 14 WIFI Advance</i>	Explains how to configure the WIFI Advance settings.

✧ <i>Chapter 15 Device Information</i>	Displays the basic information of the device.
✧ <i>Chapter 16 System Settings</i>	Explains how to configure the system settings.
✧ <i>Chapter 17 Backup Recovery</i>	Explains how to backup & restore the settings of apps.
✧ <i>Chapter 18 Ndevor</i>	Explains how to use the Ndevor Platform.

More Information

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

Chapter 2 Newland Installer

Introduction

The GMS version of the portable data collector does not integrate some apps developed by Newland or third party, but those apps can be installed via Newland Installer per needs.

Apps Included in Newland Installer

- ✧ Floating Point
- ✧ Key Remap
- ✧ Decode Output Setting
- ✧ Clean Memory
- ✧ Ndevor
- ✧ Admin Tool
- ✧ WLAN Advance
- ✧ APP Store
- ✧ Touch Lock
- ✧ Velocity
- ✧ MobiControl
- ✧ EasyConnect

Chapter 3 Installing/Uninstalling Apps

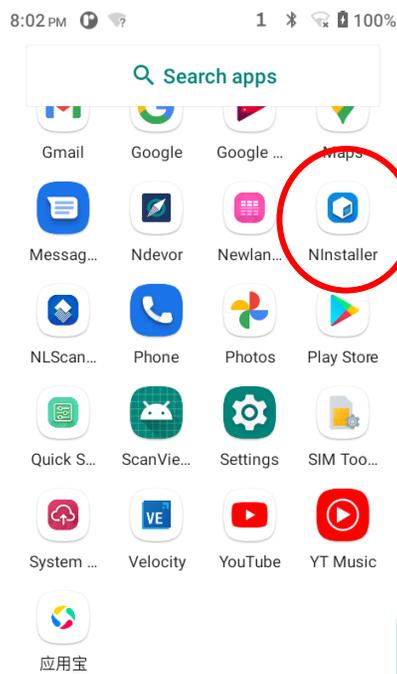
Introduction

This chapter provides the introductions about how to install/uninstall Newland Apps.

Installing Apps

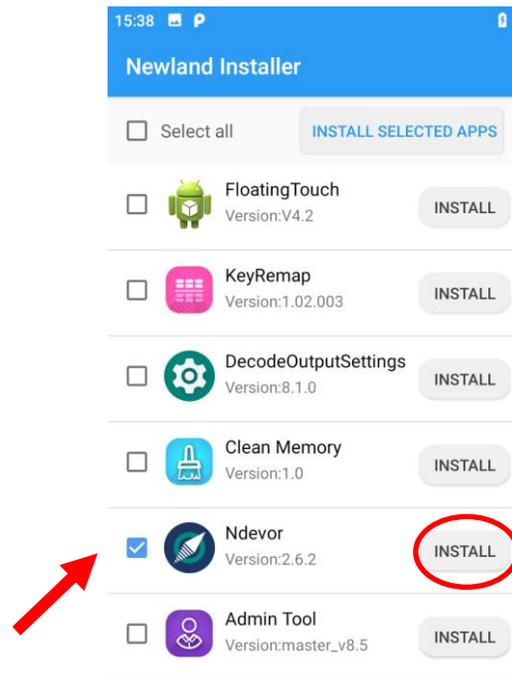
Install Newland apps via Newland Installer installed on the terminal.

Step1: Tap Newland Installer app Icon  on the home screen.



Step 2: Select the apps available to install -> tap "Install". Then the apps will be installed automatically.

You can choose one or more apps to install at one time per need.



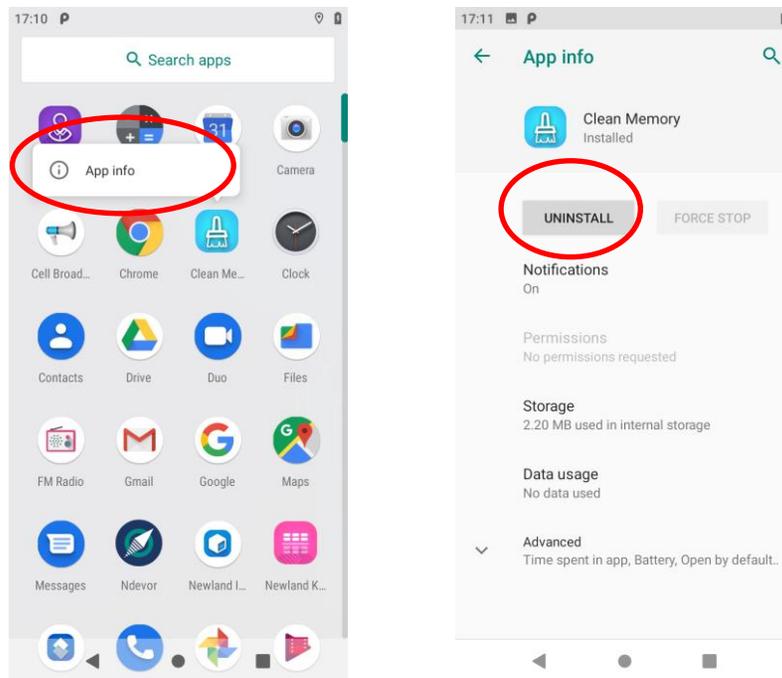
Uninstalling Apps

Use one of the following methods to uninstall an app on the terminal:

Method 1: 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 “App info” and uninstall it

Method 2: Tap “Settings” -> “Apps & notifications” -> the app you want to uninstall -> “UNINSTALL”.

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



Chapter 4 Floating Button Setting

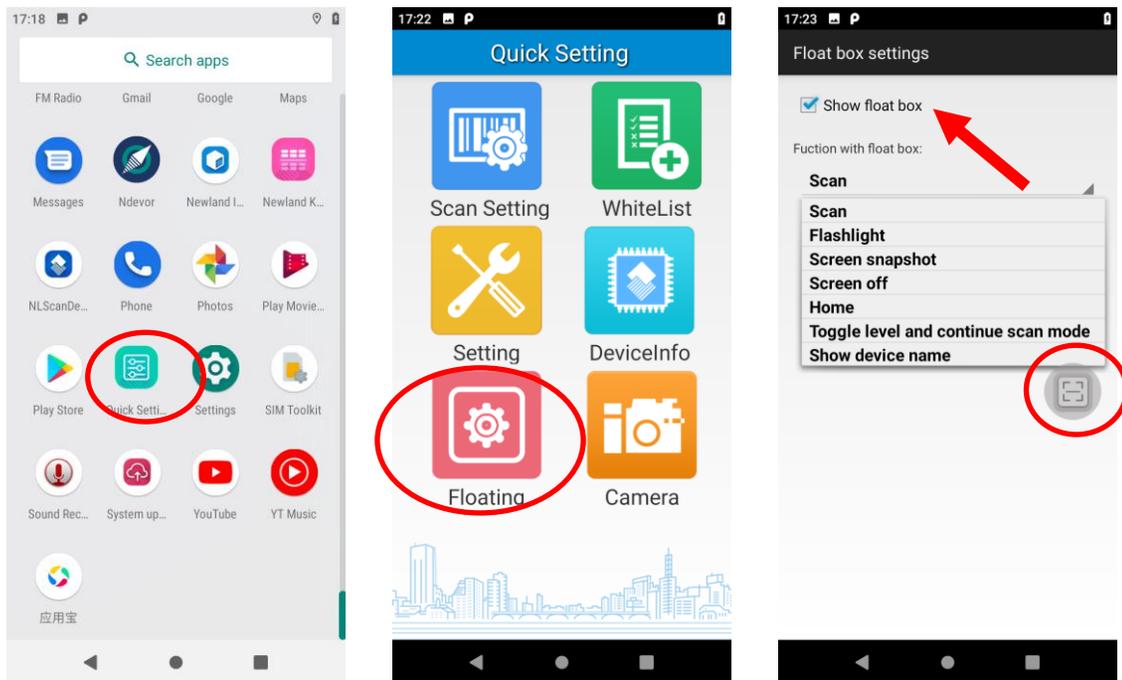
Introduction

Tapping the floating button can perform tasks such as scanning barcode (**Scan**), turning on/off flashlight (**Flashlight**), taking a screenshot (**Screen snapshot**), turning off screen (**Screen off**), going to the Home screen (**Home**), switching between level and continue scan mode(**Toggle level and continue scan mode**), or showing device name (**Show device name**).

Show/Hide the Floating Button

Show/Hide the floating button: Tap the Quick Setting app icon  -> "Floating"-> select/unselect "Show float box".

Holding down the floating button  can make it movable.



Chapter 5 Key Remap

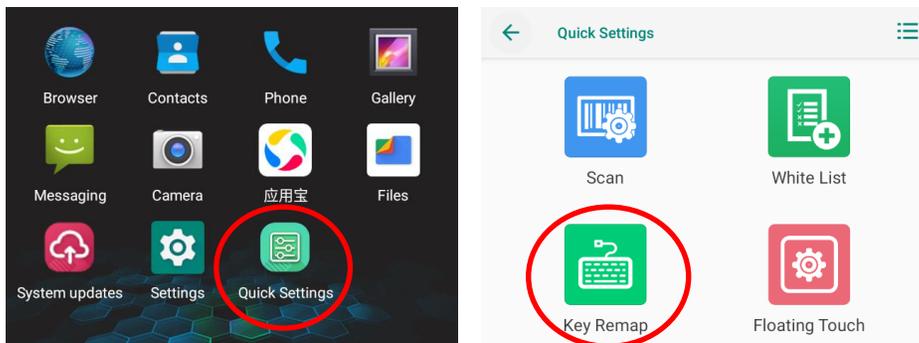
Introduction

This app allows you to remap the keys on the terminal to function as a different key, or to make them into shortcuts to launch an application, or to send a specific broadcast.

Start the Key Remap

1. Remap a key to another key:

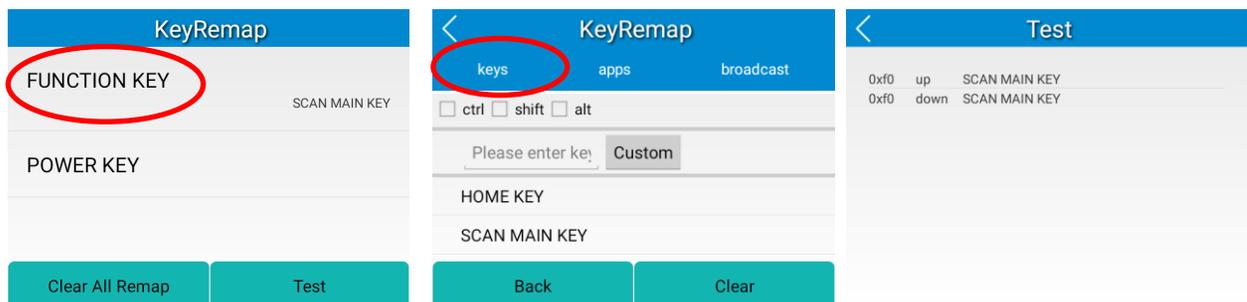
- 1) Start the Key Remap app: Tap the quick setting app icon  on the Home screen then .



- 2) **Remap a key to another key:** After starting the Key Remap app, select the key you want to remap, and then tap “keys” and select/enter the key to which you want to remap it.

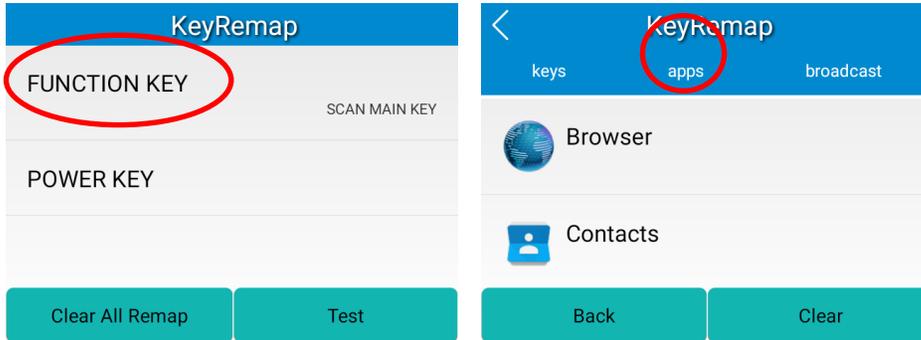
Clear All Remap: Clear all remap to return to default settings.

Test: Test the function of the remap key you just set.



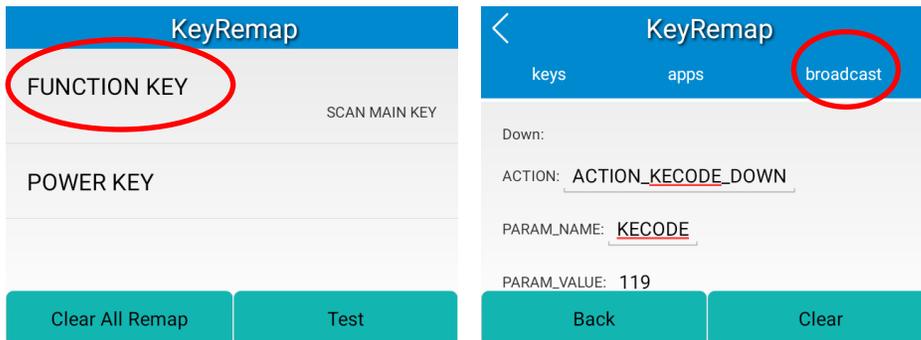
-
2. **Remap a key to an app:** After starting the Key Remap app, select the key you want to remap, and then tap “apps” and select the app to which you want to remap it.

Clear All Remap: Clear all remap to return to default settings.



3. **Remap a key to broadcast:** After starting the Key Remap app, select the key you want to remap, and then tap “broadcast” and defined the action for pressing remap key up or down.

Clear All Remap: Clear all remap to return to default settings.



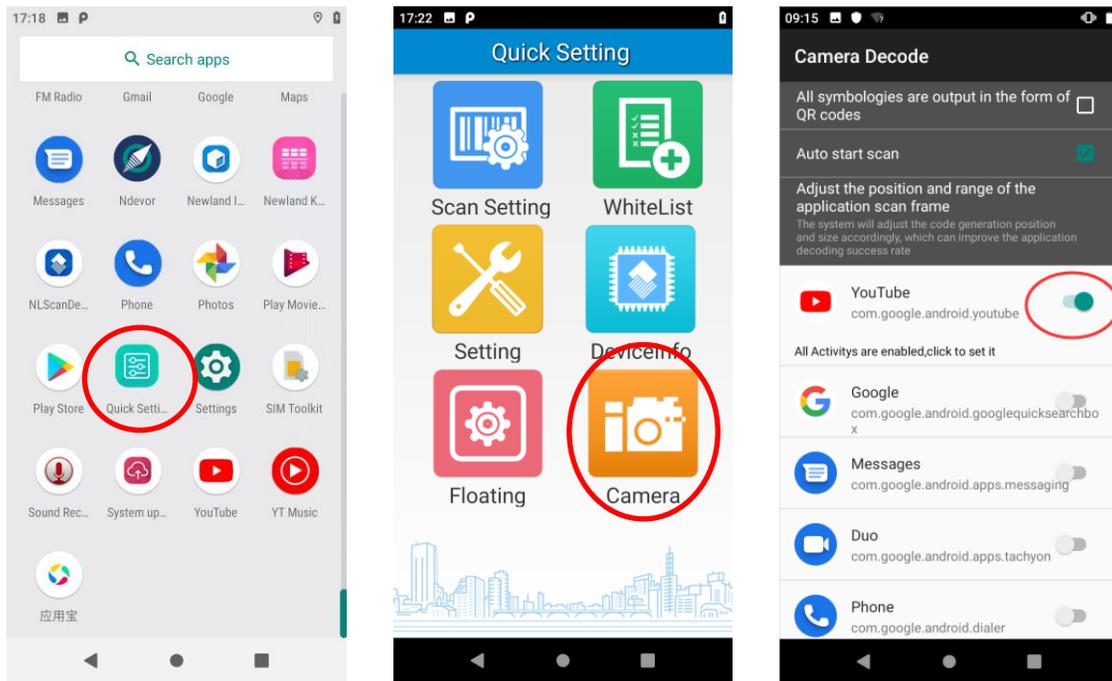
Chapter 6 Decode Output Settings

Introduction

Turning on the decode output settings will allow the application to automatically activate the scan camera for scan code decoding when using the rear camera for scanning, which improves the barcode reading efficiency.

Set the Decode Output

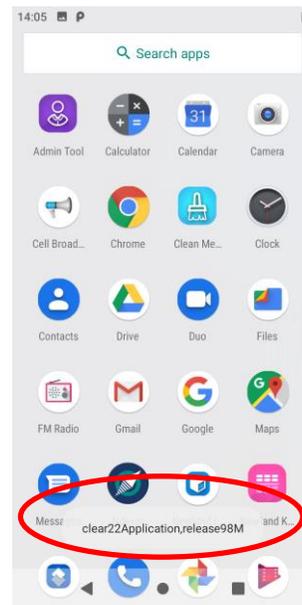
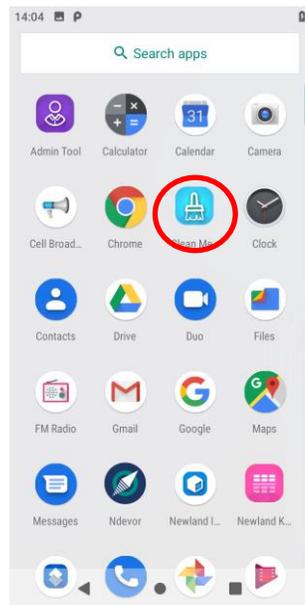
Tap the Quick Setting app icon  on the Home screen -> “Camera”  -> Enable the decode output setting of the app. Then the select app will automatically use the scan camera for scanning.



Chapter 7 Clean Memory

Start the Memory Cleanup

Swipe home screen from bottom to top with one finger in one smooth motion to display all the apps. Then tap  to clean up the memory. It will display a cleanup note after cleaning.



Note after
Memory Cleanup

Note: When your terminal becomes less efficient after having run for extended periods, you may perform a memory cleanup or reboot the terminal to fix the problem.

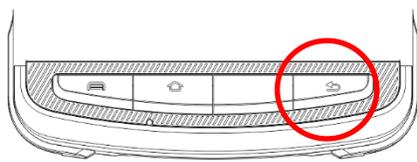
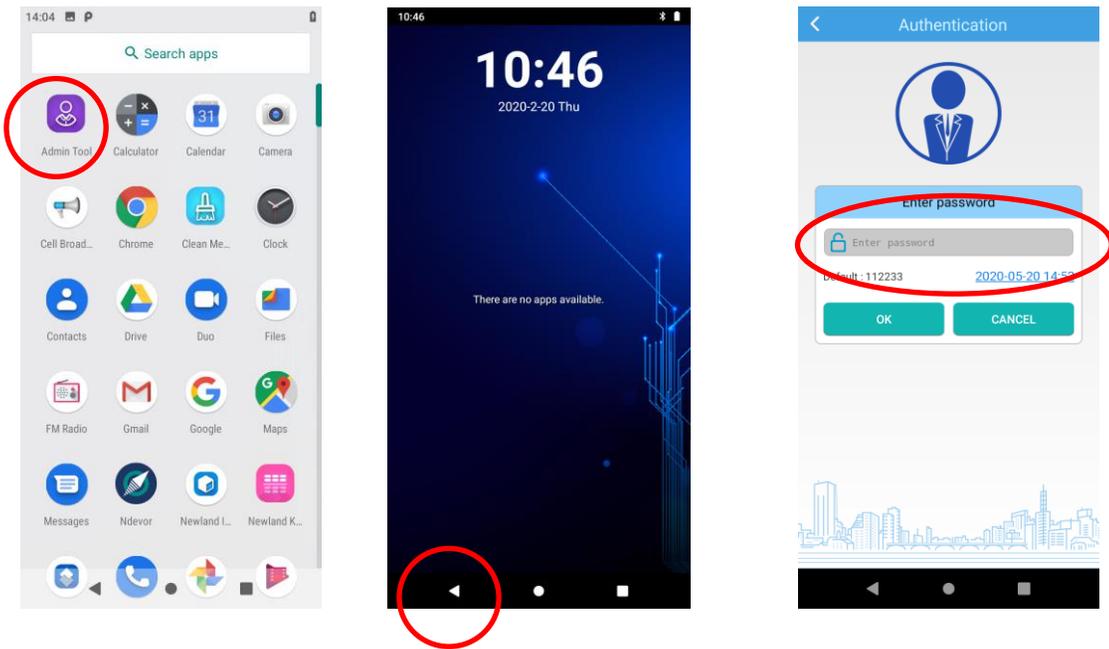
Chapter 8 Admin Tool

Introduction

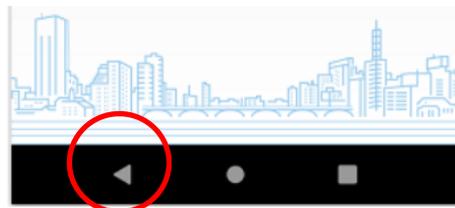
The Admin Tool app is used to specify the apps that users can run on the terminal.

Launch the Admin Tool

Tap the app icon  to launch the admin tool and enter the User mode. Tap the “Return Button” on the front panel and then enter the password (default: 112233).



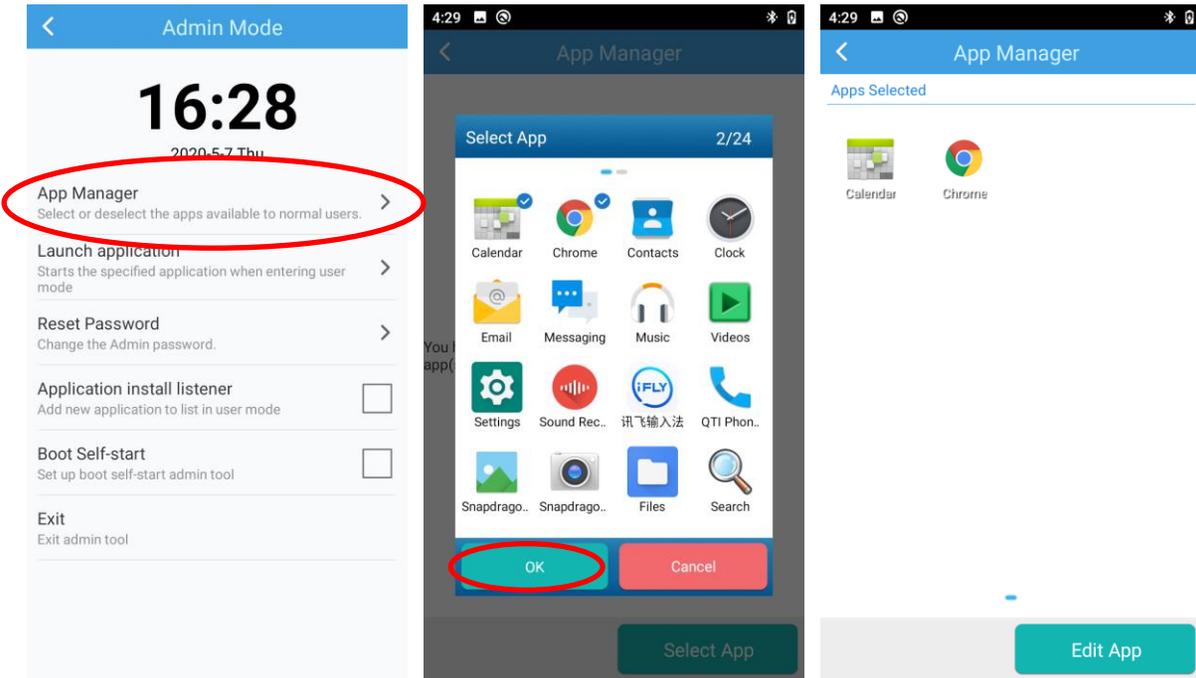
(terminal Return Key)



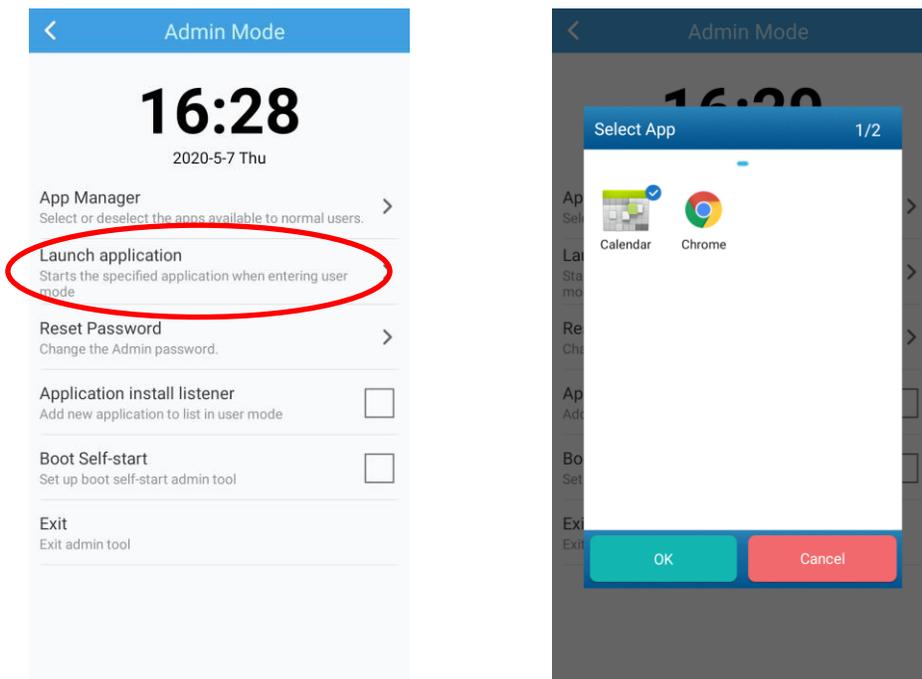
(NFT10 Return Key)

When in the Admin mode, you may set the following parameters as per your actual needs.

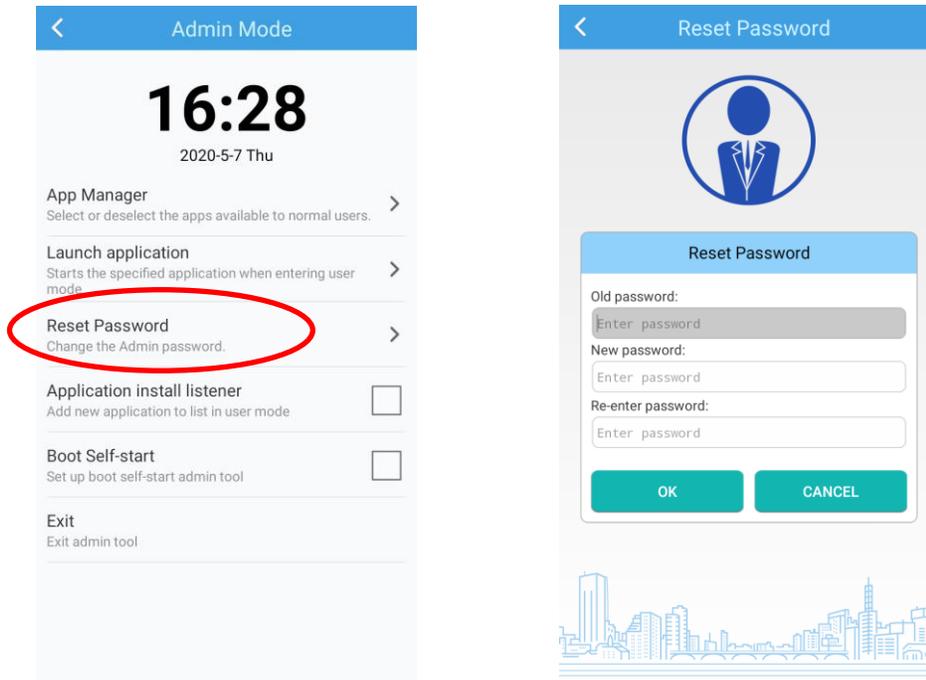
1. App Manager: Tap "App Manager" -> "Select App", then select or deselect the apps available to normal users.



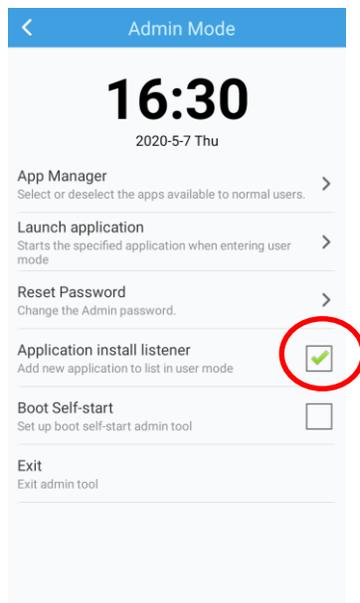
2. Launch Application: Start the specified application when entering user mode. Please note that only one app can be set.



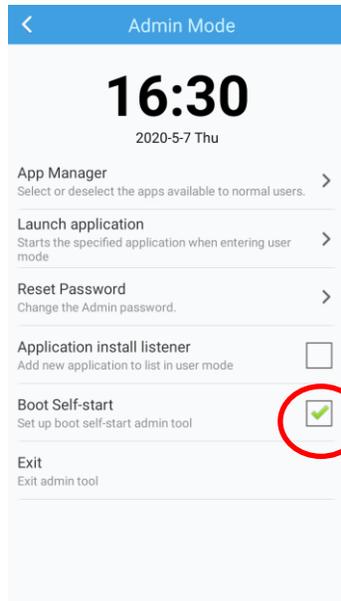
3. Reset Password: Change the Admin password.



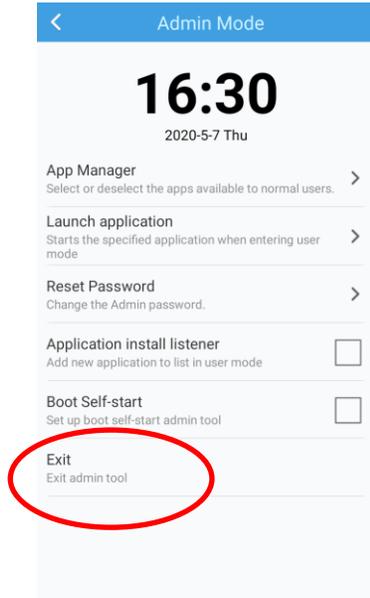
4. Application Install Listener: Add new application to list in user mode.



5. Boot Self-start: Set up boot self-start admin tool.



6. Exit: Exit admin tool.



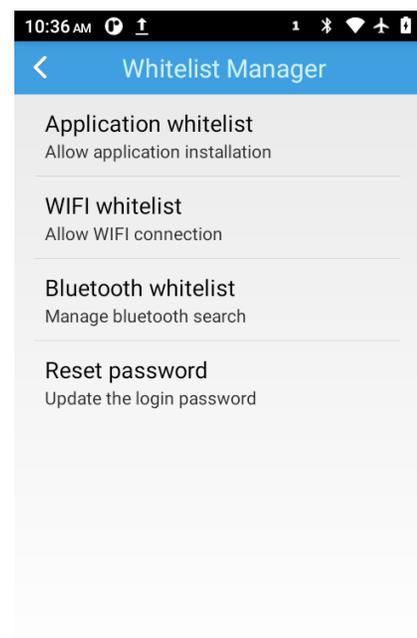
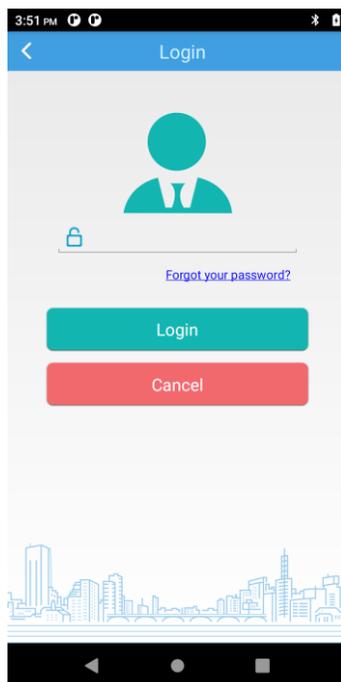
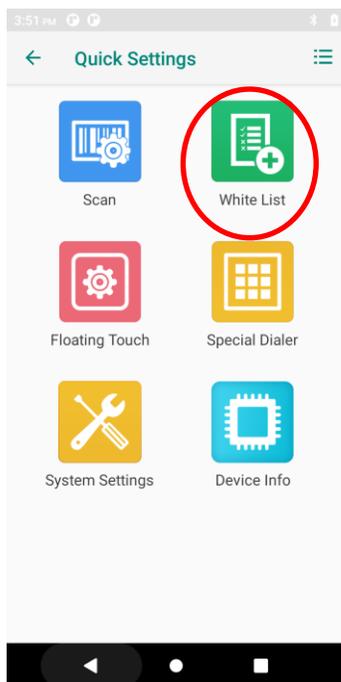
Chapter 9 Whitelist Manager

Introduction

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

Logging in to Whitelist Manager

Tap  "Quick Setting" 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.

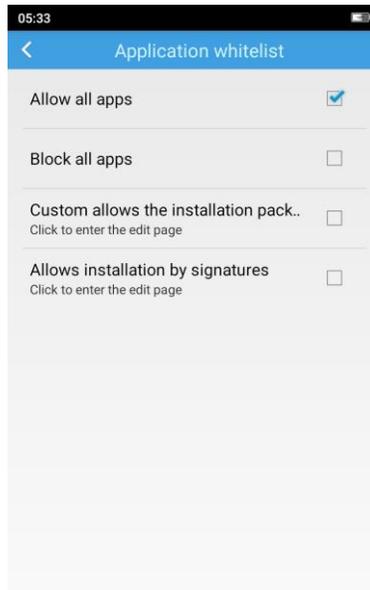


When in the Whitelist Manager app, you may set the following parameters as per your actual needs.

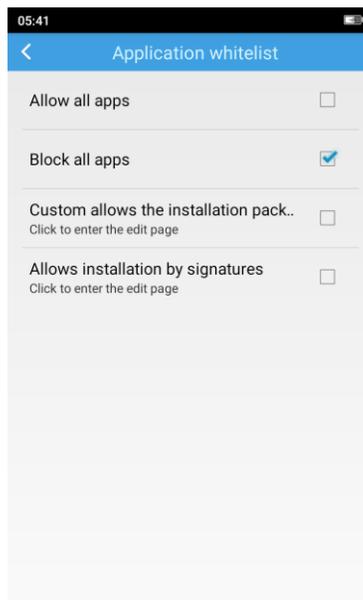
Application Whitelist

Application Whitelist: You can allow or block the application installation on the terminal.

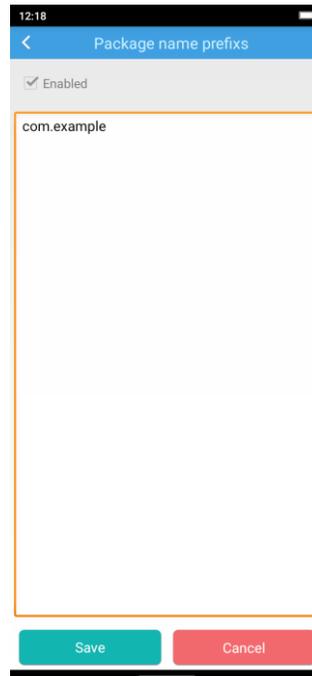
- 1) Allow all apps: Select to allow all the application installation.



- 2) Block all apps: Select to block all the application installation.



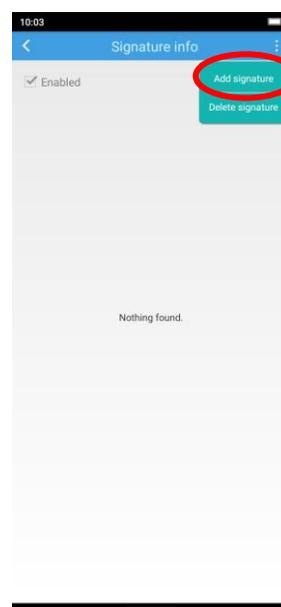
-
- 3) Custom allows the installation pack: This feature only allows you to install an app that has the same prefix of the package name as the setting. For example, if you set the prefix to “com.example”, then the app named like “com.example.myapplication” is allowed to install, otherwise, the installation will fail.



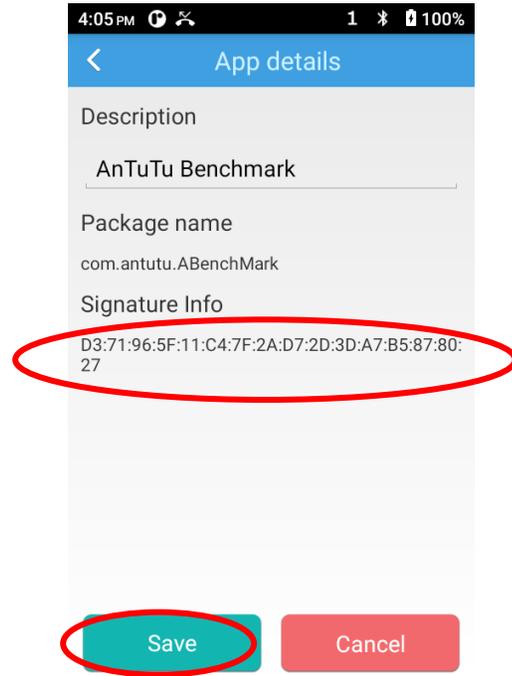
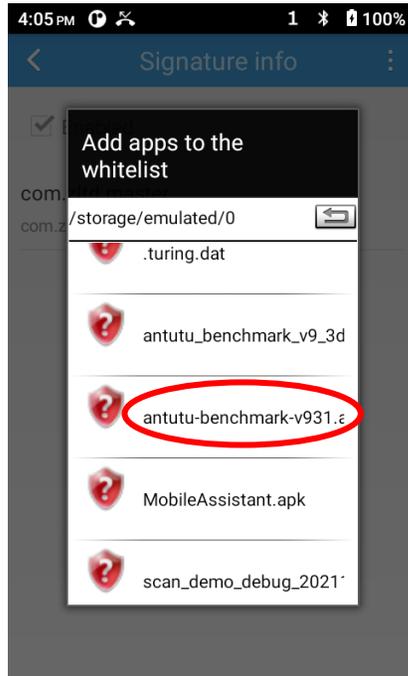
← Input the prefix of the package name

- 4) Allow installation by signatures: This feature only allows you to install the app within the scope of the configured signature, otherwise, the installation will fail.

- a) Tap  in the top right corner of the Signature info screen then select “Add signature”.



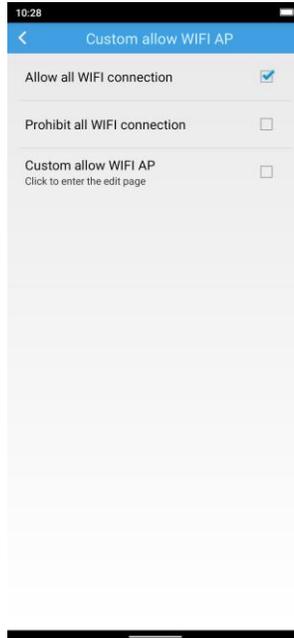
b) Select the install package file. Then select "Save".



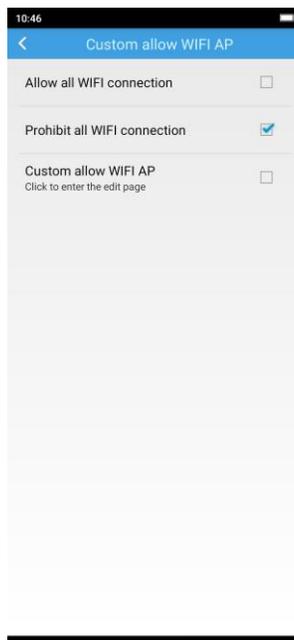
WiFi Whitelist

WiFi Whitelist: You can allow or prohibit the WiFi connection on the terminal.

- 1) Allow all WiFi connection: Select to allow all the WiFi connections.

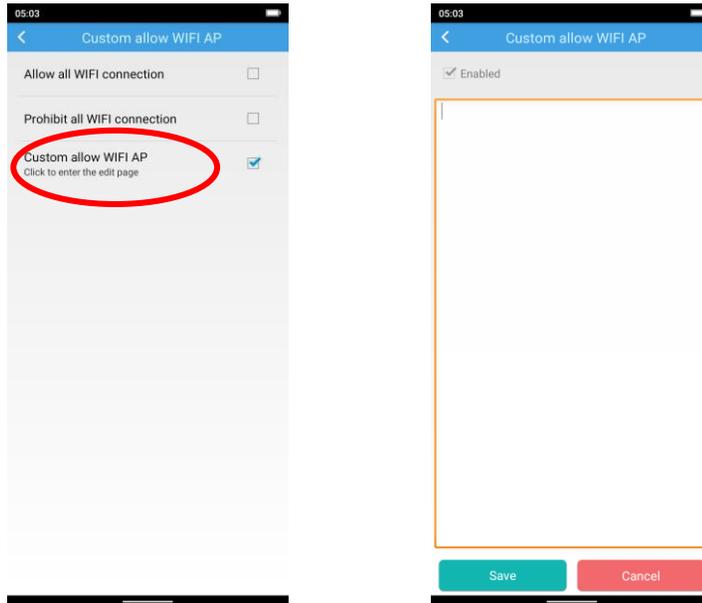


- 2) Prohibit all WiFi connection: Select to prohibit all the WiFi Connection.



3) Custom allow WIFI AP: This feature only allows you to search WIFI with specified SSID.

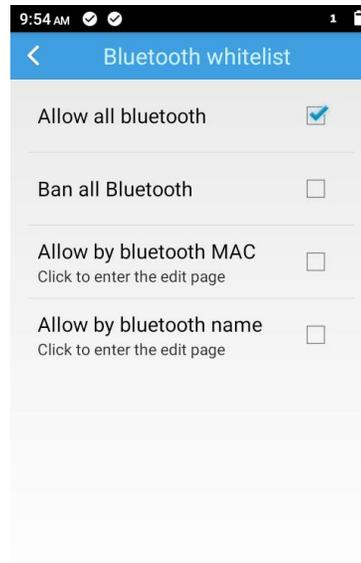
Click "Custom allow WIFI AP" to enter the edit page, then input the WIFI SSID that you allow to connect.



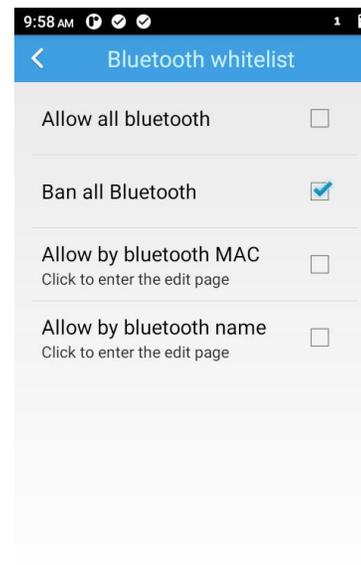
Bluetooth Whitelist

Bluetooth Whitelist: You can allow or prohibit the Bluetooth connection on the terminal.

- 1) Allow all Bluetooth: Select to allow all the Bluetooth connections.

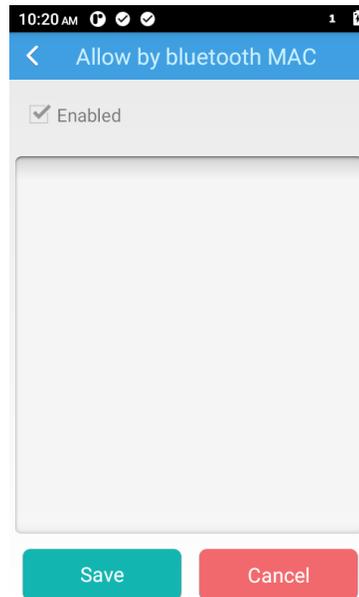


- 2) Ban all Bluetooth: Select to prohibit all the Bluetooth Connection.



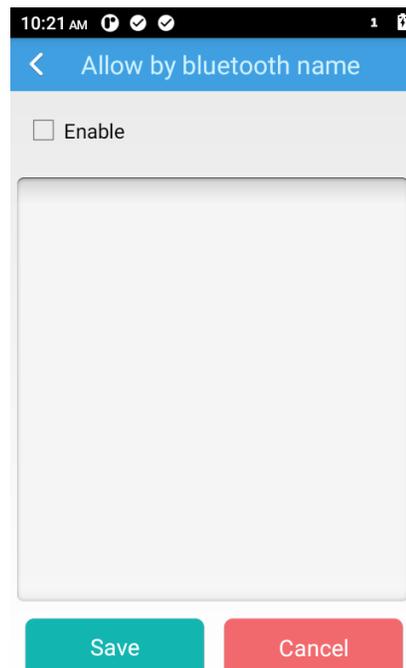
-
- 3) Allow by Bluetooth MAC: This feature only allows you to search Bluetooth with the specified MAC address.

Click “Allow by Bluetooth MAC” to enter the edit page, then input the Bluetooth MAC address that you allow to connect.



- 4) Allow by Bluetooth name: This feature only allows you to search Bluetooth with the specified name.

Click “Allow by Bluetooth name” to enter the edit page, then input the Bluetooth name that you allow to connect.



Reset Password

Reset Password: Change the Whitelist Manager login password.

10:34

Reset password

Set new password

Old password

New password

Re-enter password

Security info (for retrieving password)

Save Cancel

Chapter 10 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 terminal 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
	
	
	

Scanning 2D Barcode

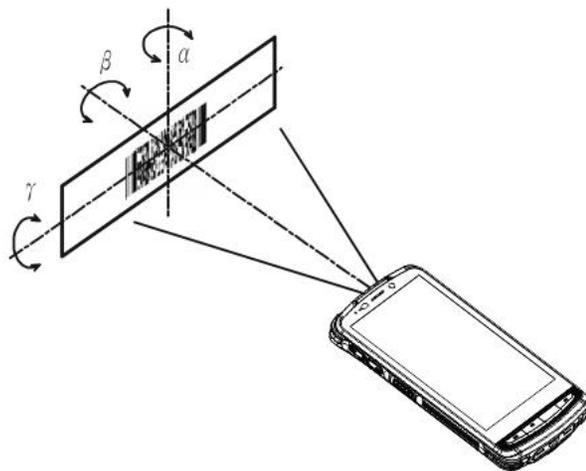
Adjust the scan angle and the distance between the terminal and the target barcode to make them fall into the following ranges:

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

Skew (α) < 45° (0° preferably)

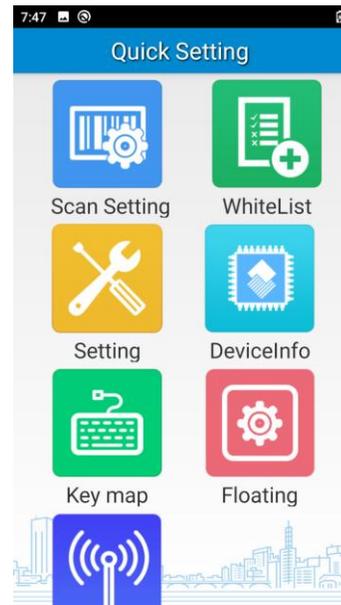
Pitch (γ) < 45° (5°- 20°preferably)

Roll (β) = 0°- 360°



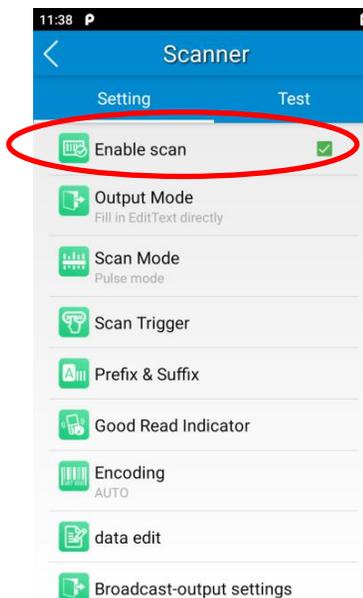
Programming Scanner

Tap the app icon  on the Home screen then  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 terminal.



Output Mode

The terminal 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.

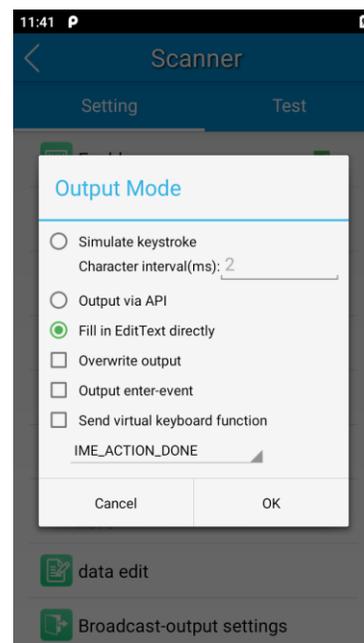
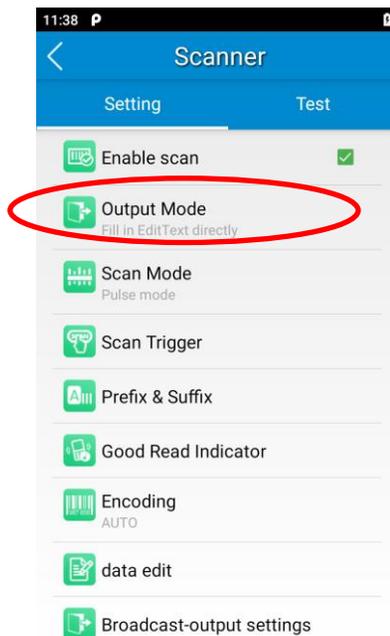
2. **Output via API:** The application acquires scanned data by receiving system broadcasts.

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 terminal provides the following four scan modes:

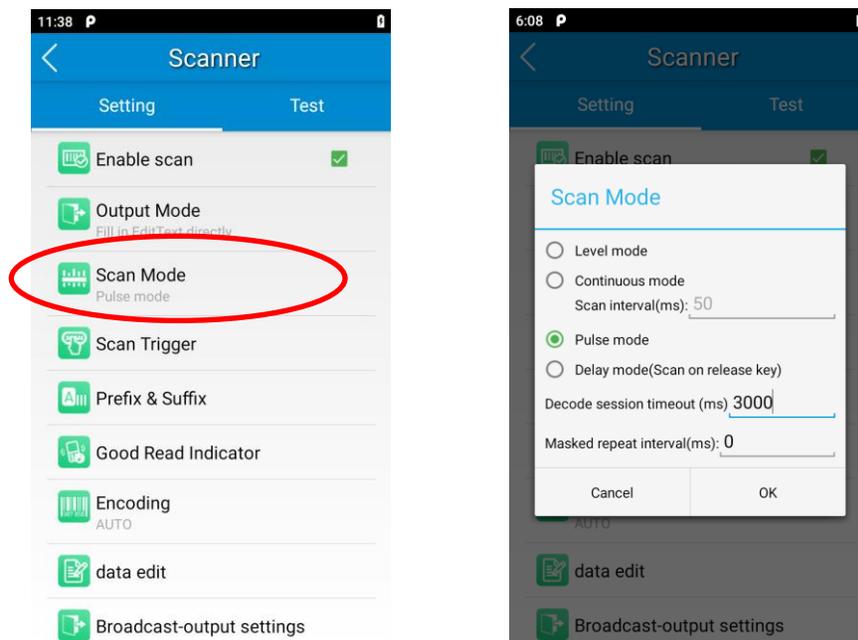
1. **Level mode:** Press and hold the scan trigger to start a decode session which continues until the trigger is released.
2. **Continuous mode:** Press the scan trigger to continuously read barcodes. To suspend or resume scan operation, simply press the scan trigger.

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 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 **Central Area 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.

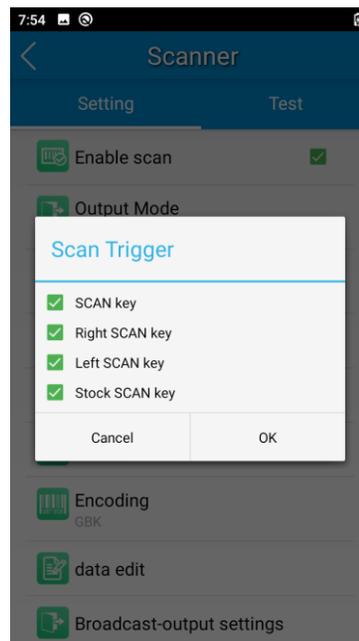
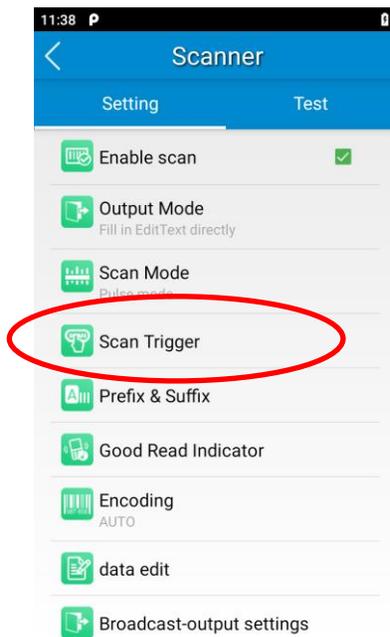
Masked repeat interval (ms): This parameter sets the time interval between two successive reads on the same barcode.



Scan Trigger

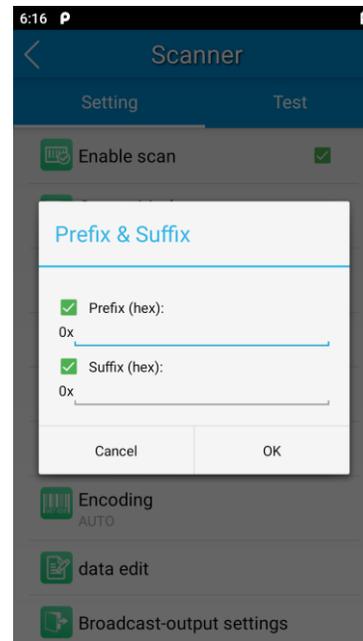
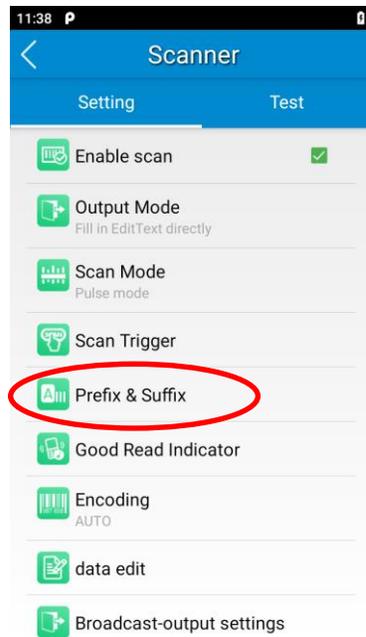
The three scan keys on the terminal and the trigger on the pistol grip can all serve as scan triggers. Enable or disable them as per your actual needs.

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



Prefix & Suffix

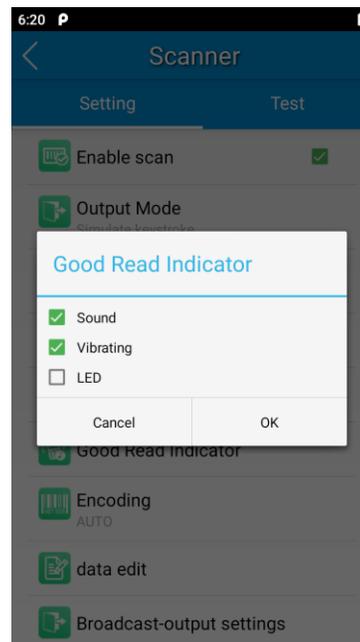
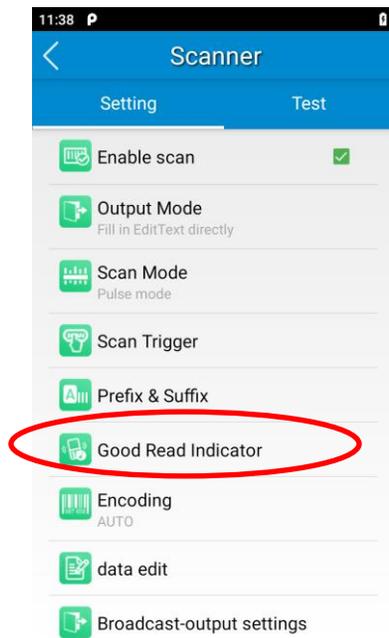
To set the prefix/suffix, enter the hexadecimal value of a desired prefix/suffix and then tap “OK”. For example, if you want to add a Line Feed character after each barcode, set the suffix to “0A”; if you want to add a Carriage Return character after each barcode, set the suffix to “0D”.



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.

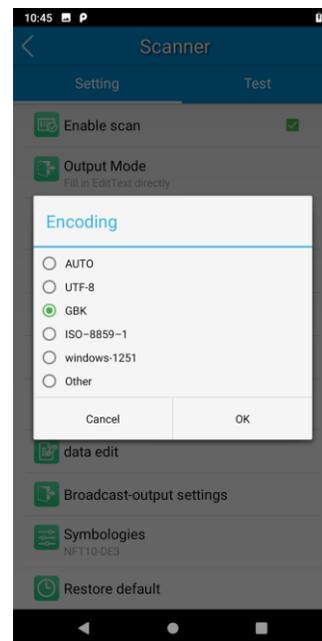
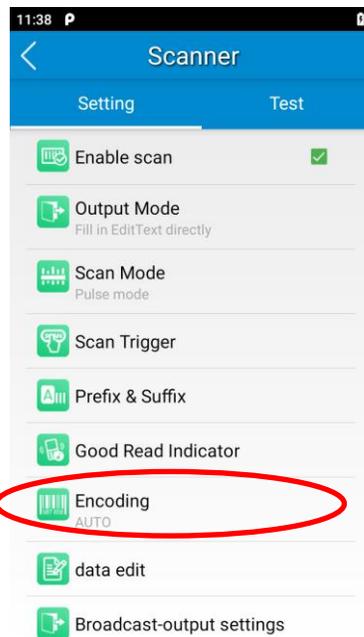
1. **Sound:** The terminal issues a short beep to indicate a good read.
2. **Vibrating:** The terminal vibrates to indicate a good read.
3. **LED:** The blue LED on the terminal flashes once to indicate a good read.



Encoding

Choose a character encoding to interpret barcode data.

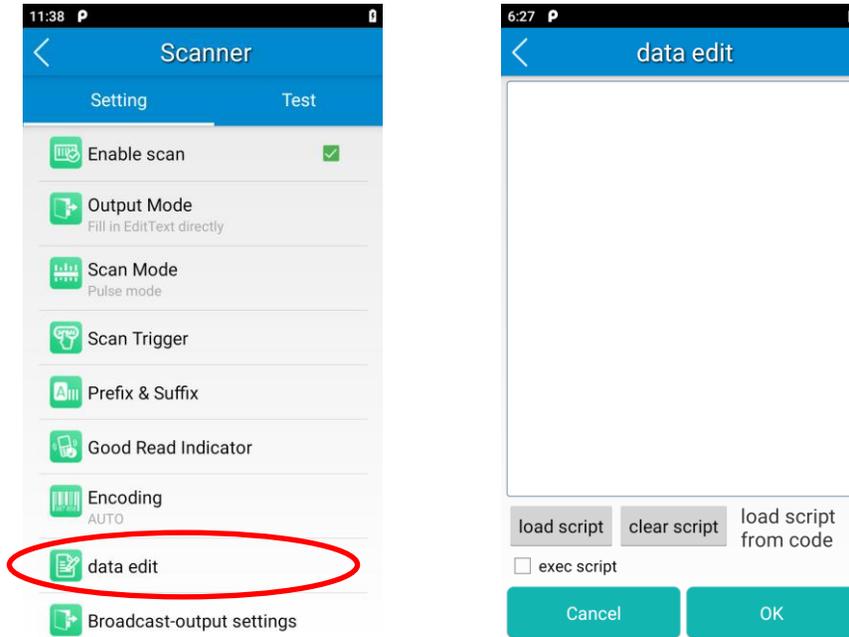
1. **AUTO:** The terminal determines automatically if the target barcode uses UTF-8, GBK, ISO-8859-1 and windows-1251 encoding. If the terminal produces the wrong output, you may need to choose or enter a specific character encoding.
2. **UTF-8:** Dominant Unicode encoding.
3. **GBK:** A character encoding 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

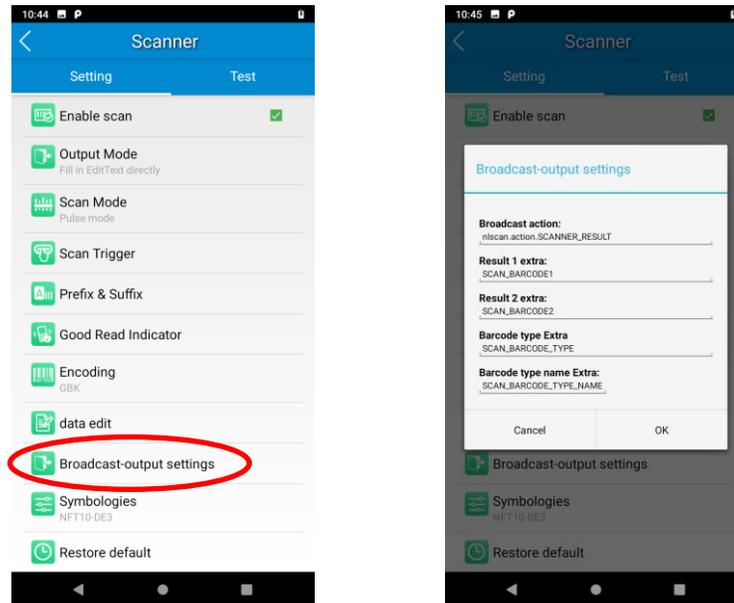
This feature allows you to edit barcode data with a script.

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 terminal will output the scan information with the specified broadcast ACTION and EXTRA.



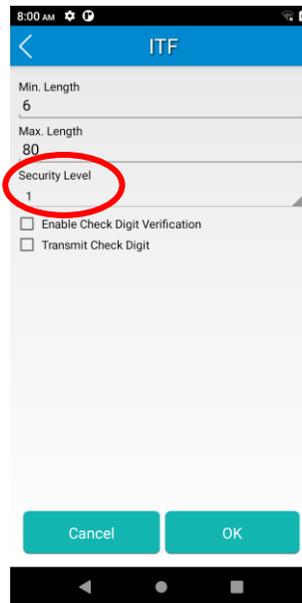
Symbologies

Note that supported symbologies depend on the scan engine integrated into the terminal. Here we will take CM60 for example.

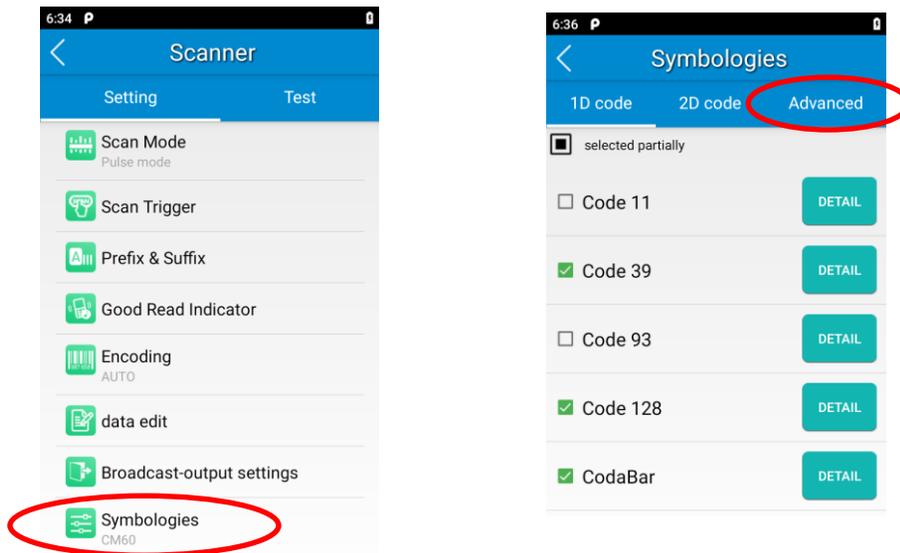
1D code: Enable or disable 1D symbologies and set other barcode parameters.

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. **Other:** Tap **DETAIL** to access the following parameter settings.

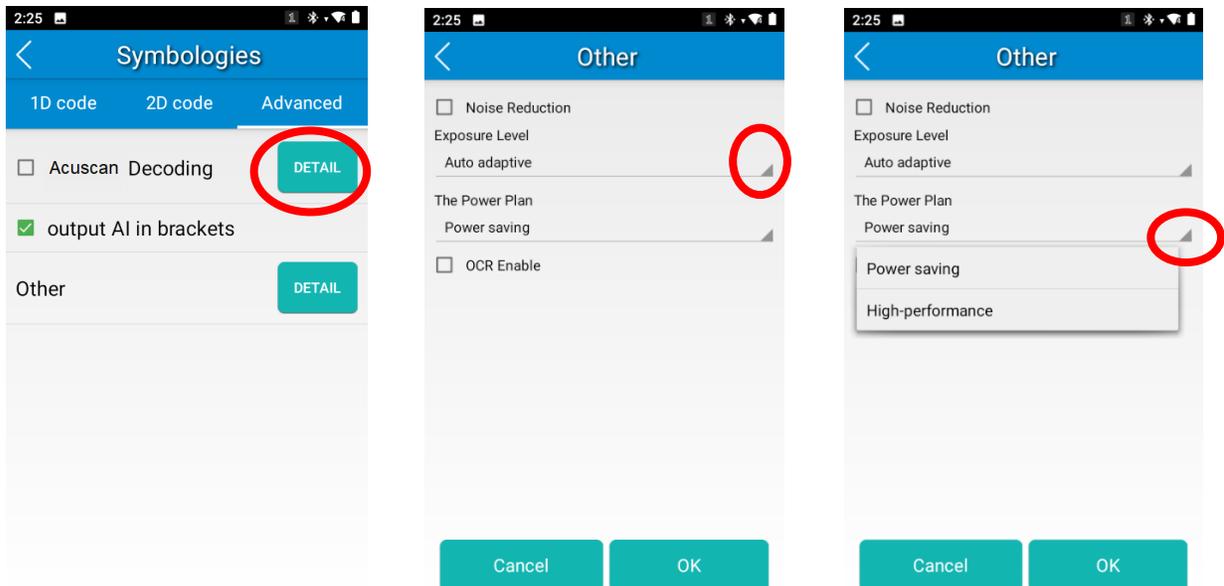
Noise reduction: This feature is designed to reduce noise in images produced by the terminal. However, the terminal shows a slight decrease in scanning speed when using this feature. It is recommended to enable it only when necessary.

Power plan: Two options are provided.

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

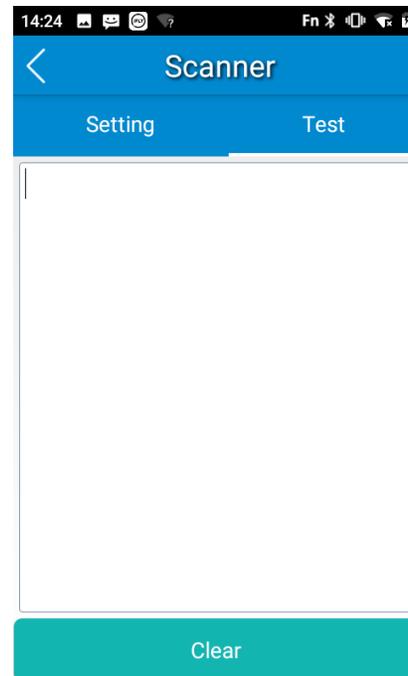
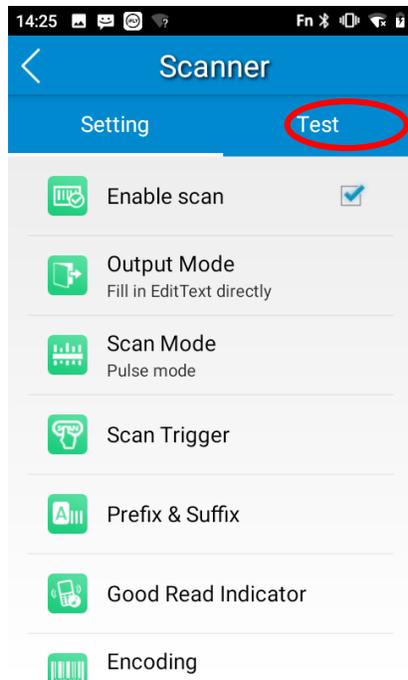
High-performance: The terminal's built-in scanner turns off automatically after 15 seconds of inactivity.

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



Scan Test

Scan barcode to verify whether the scanner configuration is valid or not.



Chapter 11 Special Dialer

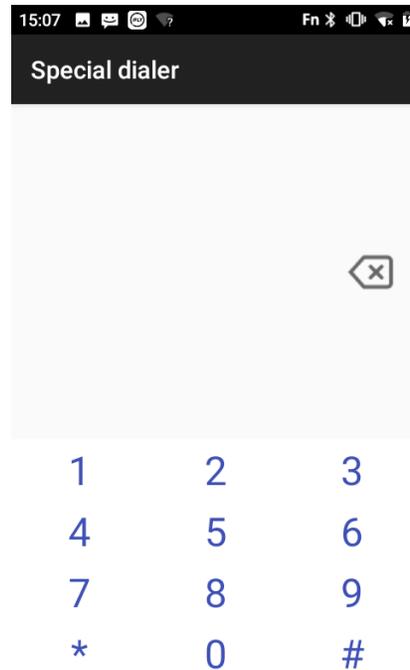
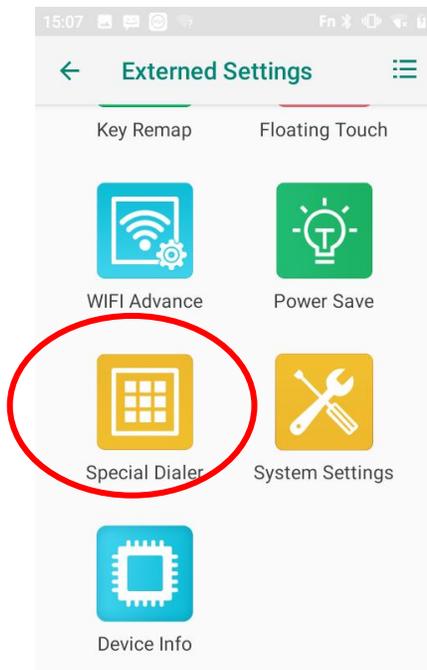
Introduction

This app is used to open hidden tools by entering the specified dial string.

Launch the Special Dialer

Tap "Quick Setting"  on the Home screen -> "Special Dialer" , then enter the specified dial string to open the hidden tools per actual needs.

- ◇ *#0*#: Start test tool for Overall Test, Ageing Test, Product Tools and Error Code Test.
- ◇ *#3366#: Start PDA tool for realistic scanning image viewing and scanner engine upgrading.
- ◇ *#3377#: Start Boot Set tool for boot animation and wall paper settings.



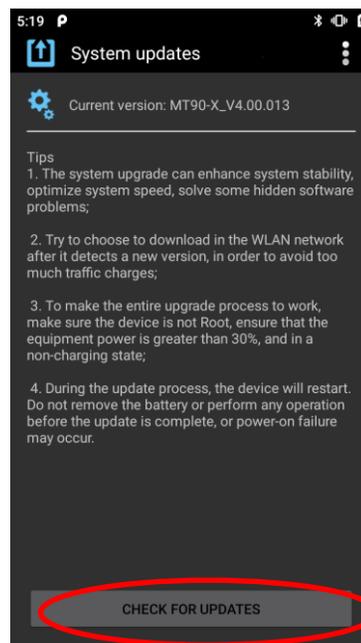
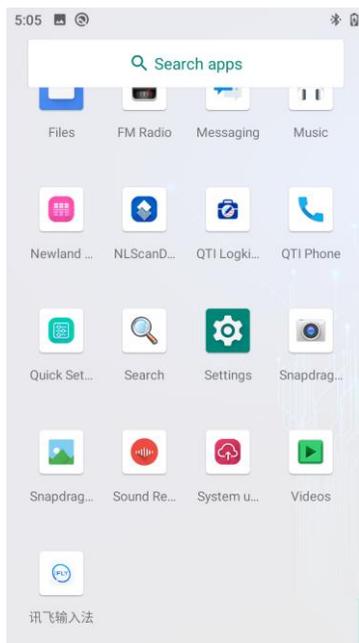
Chapter 12 System Update

Introduction

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

Online Update

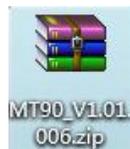
Update the system online: Tap the system updates icon  ->“CHECK FOR UPDATES”.



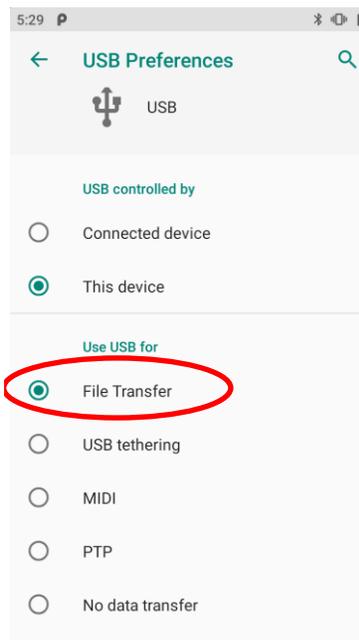
Local Update

Zip File to the terminal 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”.



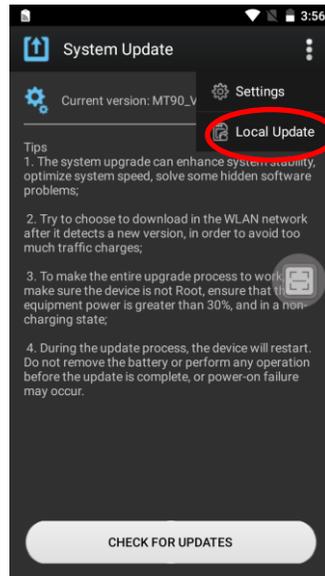
The file name may be different based on each version.



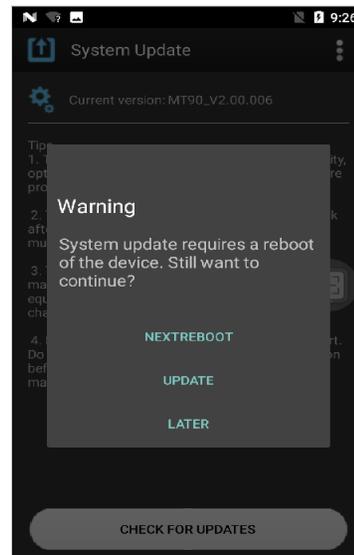
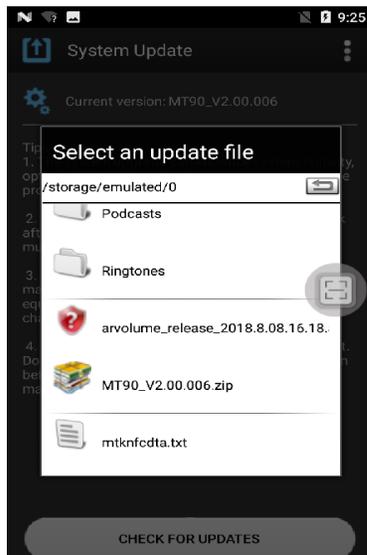
2. Copy the update zip file to the terminal drive or terminal’s Micro SD card.

3. Tap  to access the System Update screen.

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

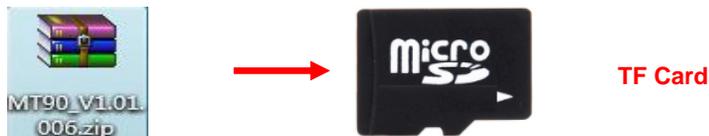


5. Select the update zip file. Then select “NEXTREBOOT” or “UPDATE”.



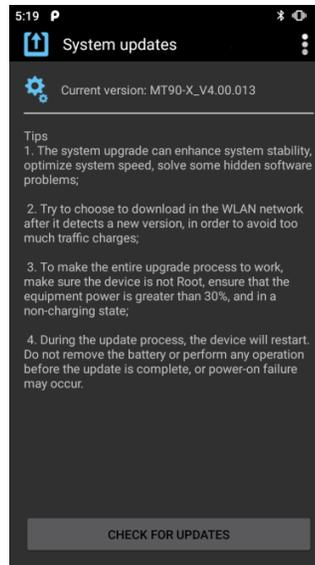
Zip File to TF Card

1. Copy the update zip file to TF Card.

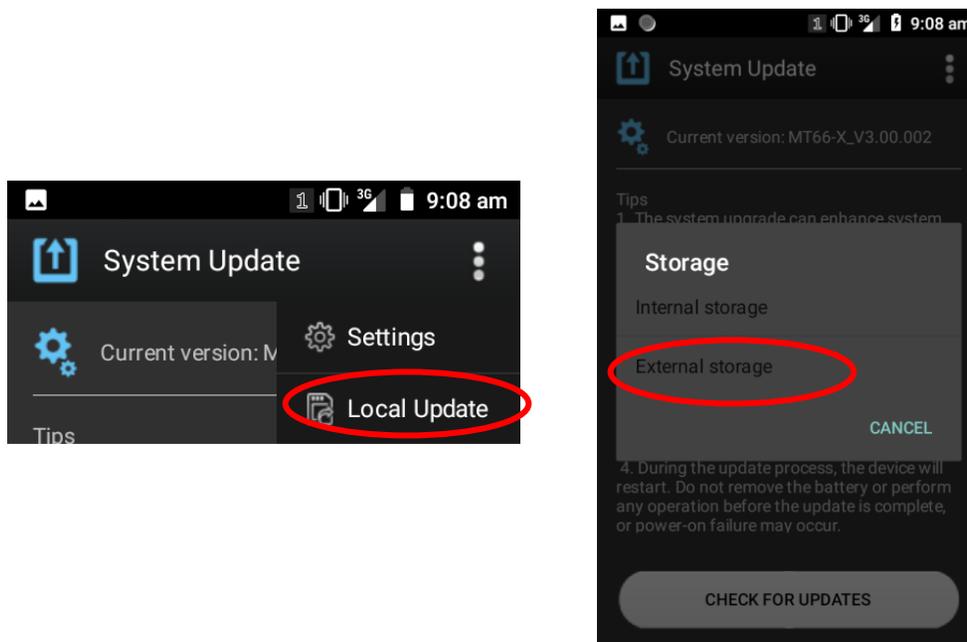


2. Insert the TF card into the terminal and then power on the terminal.

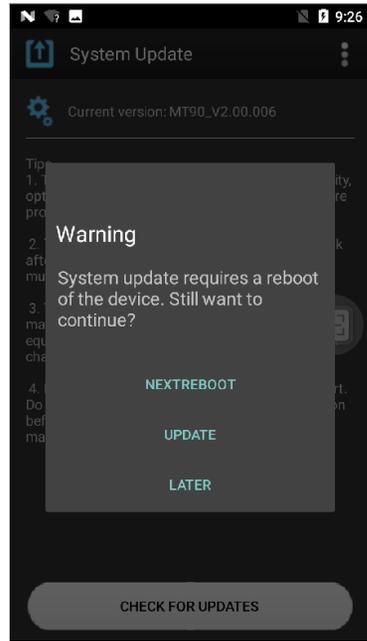
3. Tap  to access the System Update screen.



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



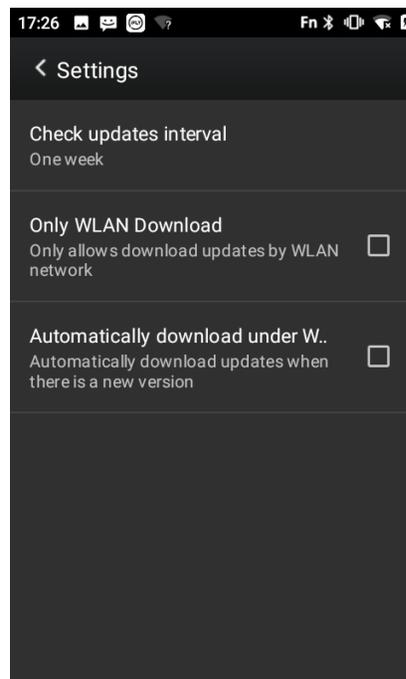
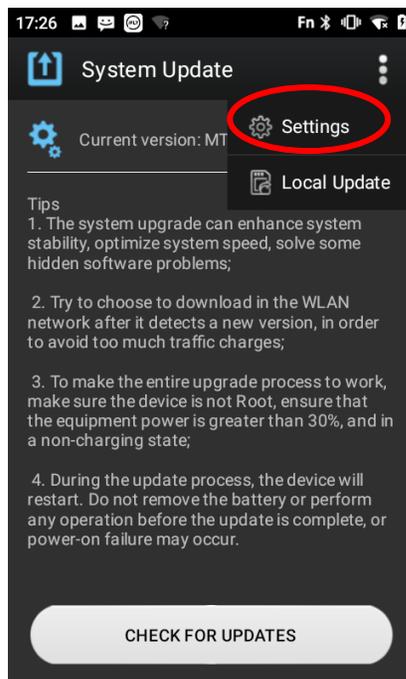
1. Select the update zip file. Then select “NEXTREBOOT” or “UPDATE”.



Settings

Tap  in the top right corner of the System Update screen then select “Settings”. Then you can set “Check updates interval”, “Only WLAN Download”, and “Automatically download under WLAN” per your needs.

- ✧ Check updates interval: This parameter sets the time interval between each check update, there are “One week”, “Two weeks”, and “One month” options available.
- ✧ “Only WLAN Download”: Only allow download update by WLAN network.
- ✧ “Automatically download under WLAN”: Automatically download the update when there is a new version.



Chapter 13 NLScan Demo

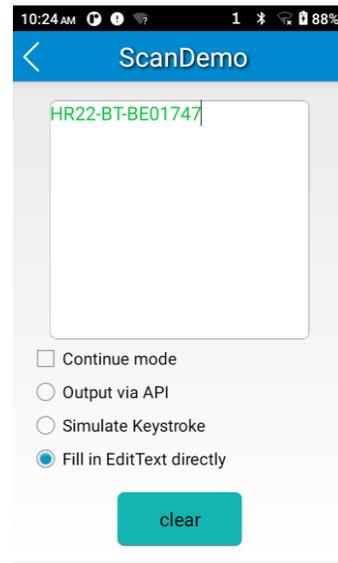
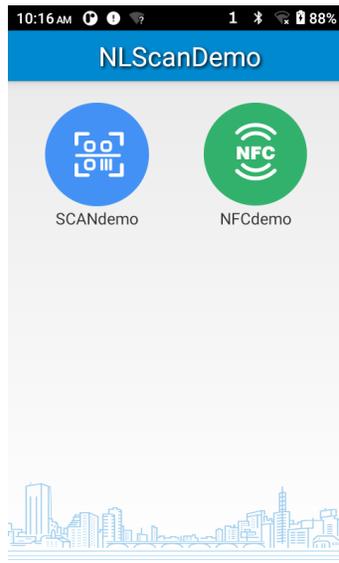
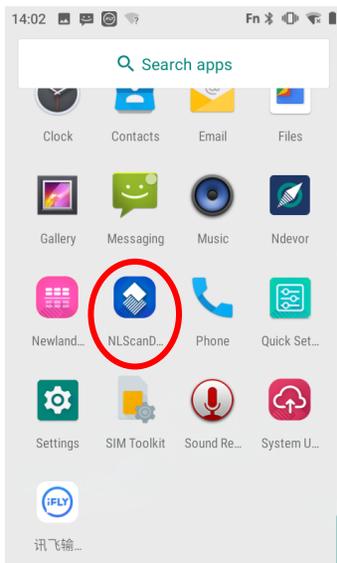
Introduction

The NLScan demo app is used to demonstrate some of the core functions of our products such as barcode scanning, NFC tag reading, etc.

Launch the NLScan Demo App



Tap Newland Scan Demo App on the Home screen, then you can start the “SCAN demo” or “NFC demo” per actual need.



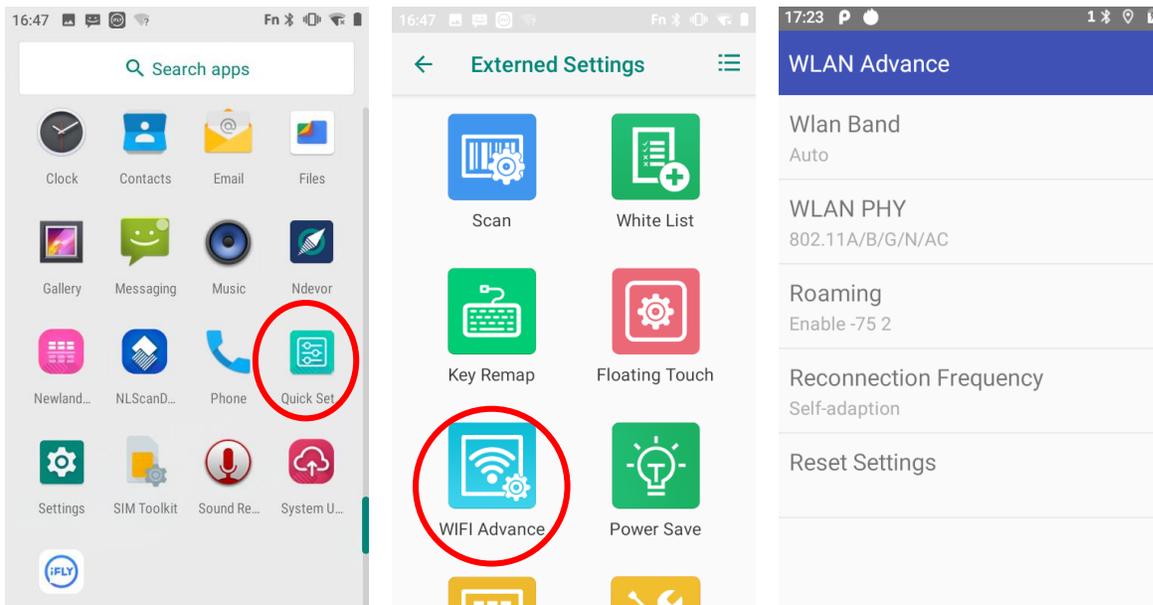
Chapter 14 WIFI Advance

Introduction

The WIFI Advance app is used to configure the WIFI advance settings, such as WLAN Band, WLAN PHY, Roaming, Reconnection Frequency, Reset Settings, etc.

Launch the WIFI Advance

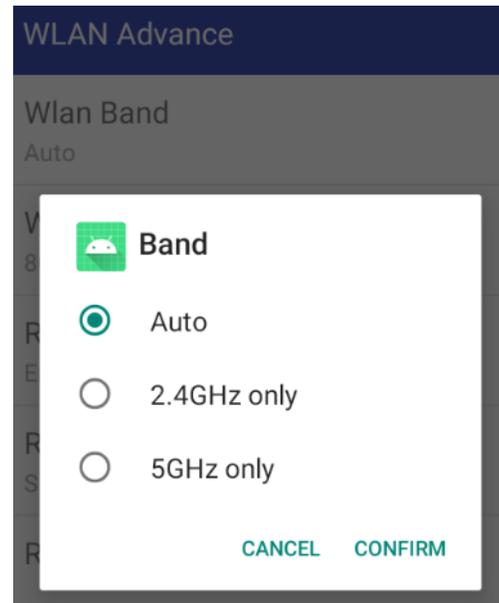
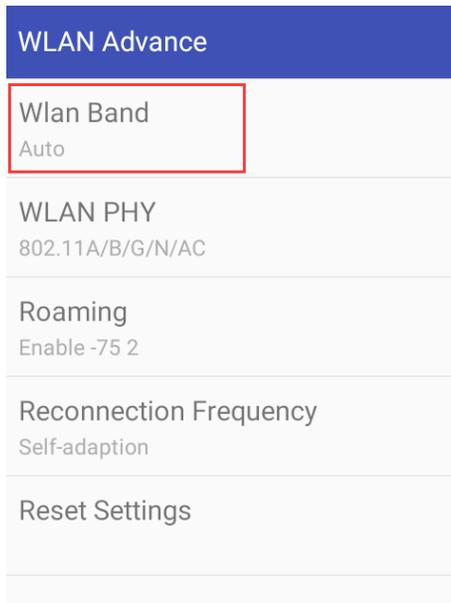
Tap "Quick Setting"  on the Home screen -> "WIFI Advance" , then you can set the parameters of WLAN Band, WLAN PHY, Roaming, Reconnection Frequency, and Reset Settings per actual need.



WIFI Band

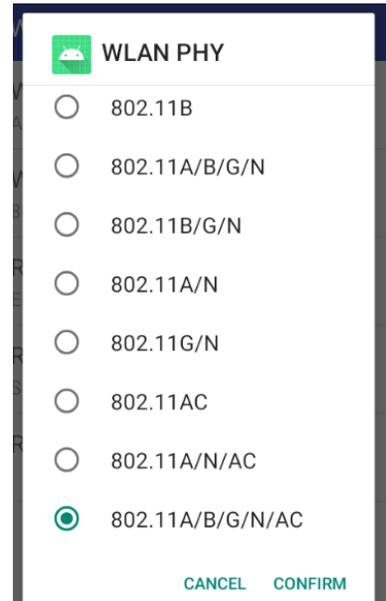
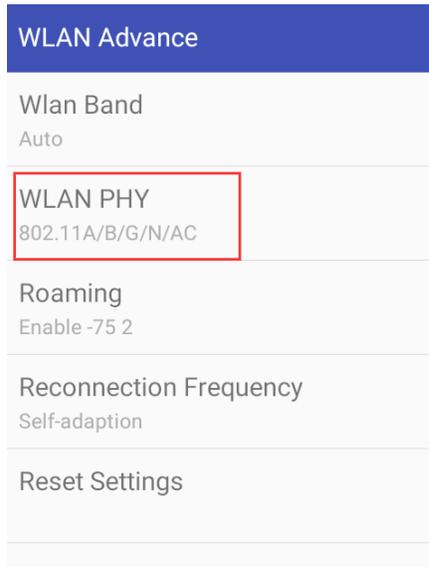
The terminal provides three WIFI Band options: Auto, 2.4GHz only, and 5 GHz only

- ✧ Auto: Default setting, allow 2.4GHz and 5 GHz.
- ✧ 2.4GHz only: Allow 2.4GHz WIFI and prohibit 5 GHz WIFI.
- ✧ 5 GHz only: Allow 5GHz WIFI and prohibit 2.4 GHz WIFI.



WIFI PHY

The default WIFI PHY is: A/B/G/N/AC, and you can choose other options per actual needs.

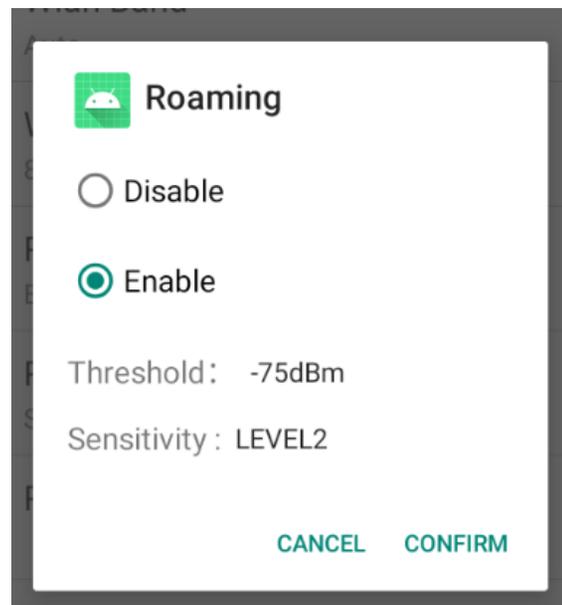
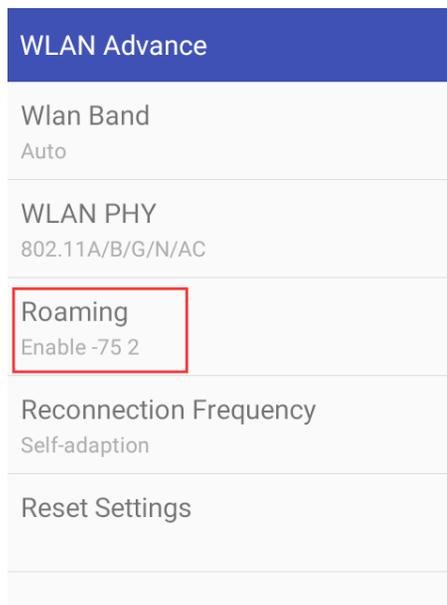


Roaming

Roaming: When the currently connected network is in poor condition, it will automatically switch to other available networks. Enable the Roaming by default.

Threshold: The higher the value, the harder it is to roam. The general setting value is 70-75.

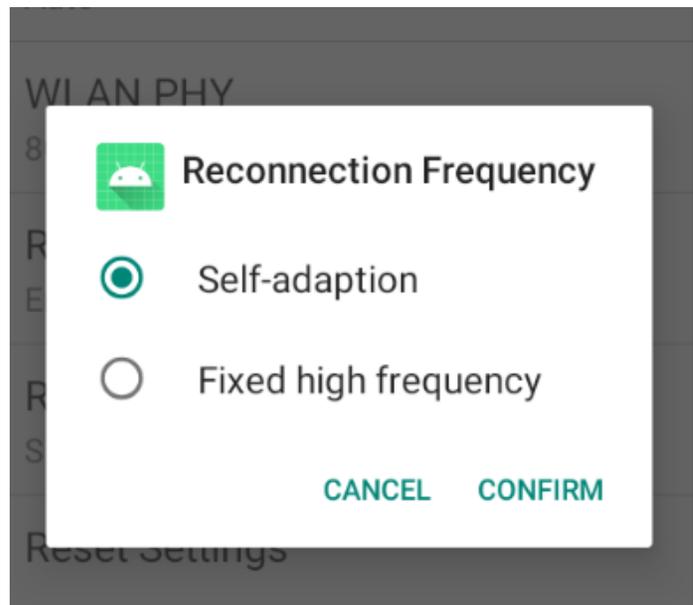
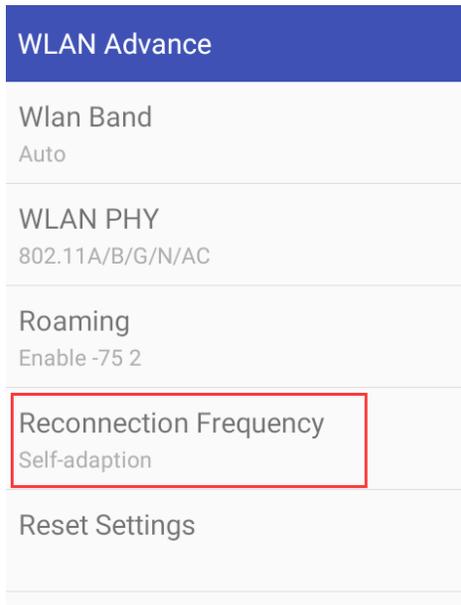
Sensitivity: It is used to fine-tune the threshold. The final roaming threshold value would be the threshold selected plus the sensitivity level. If the threshold accuracy requirement is not high, it can be ignored.



Reconnection Frequency

Self-adaption: it is a default setting.

Fixed high frequency: If selected, the network will be reconnected 10 seconds after the abnormal disconnection. There may be some additional power consumption.



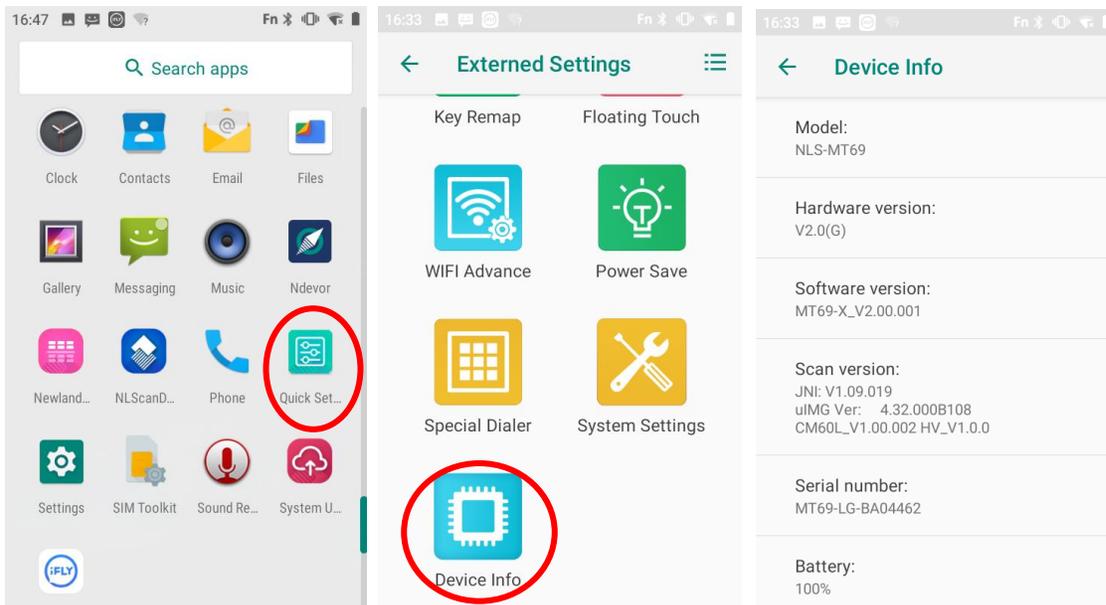
Chapter 15 Device Information

Introduction

The Device Info app is used to display some of the basic information of the terminal, such as Model, hardware version, software version, scan version, serial number, battery, IMEI, etc.

Logging in to Device Information

Tap "Quick Setting"  on the Home screen -> "Device Info"  , then you can review the basic information of the device per actual need.



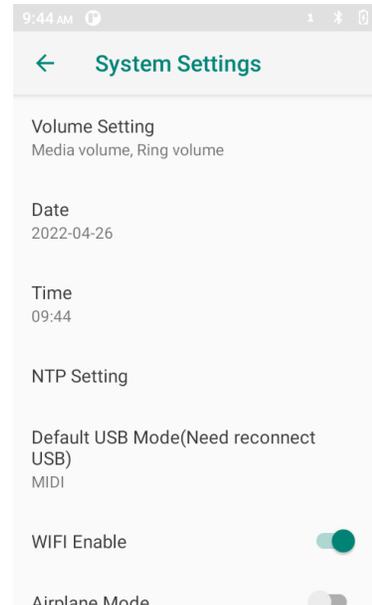
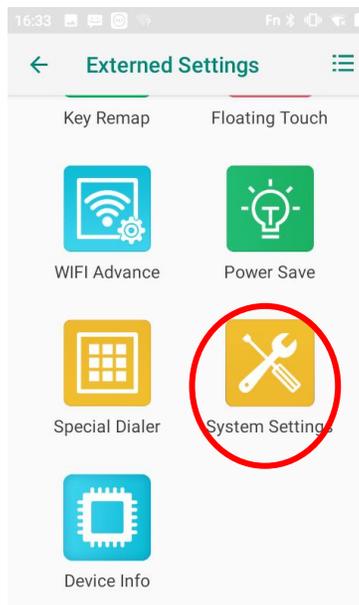
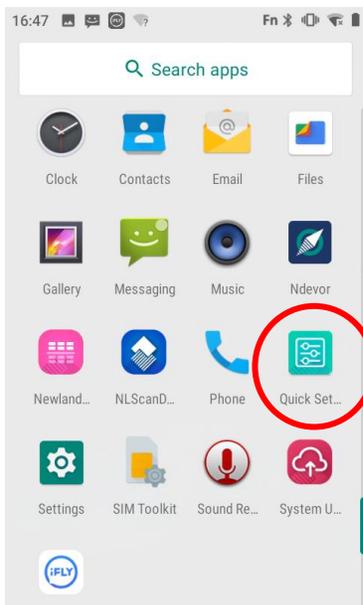
Chapter 16 System Settings

Introduction

The System Setting app is used to configure some of the basic system settings, such as Volume, Date, Time, NTP setting, Default USB Model, WIFI Enable, Airplane Mode, etc.

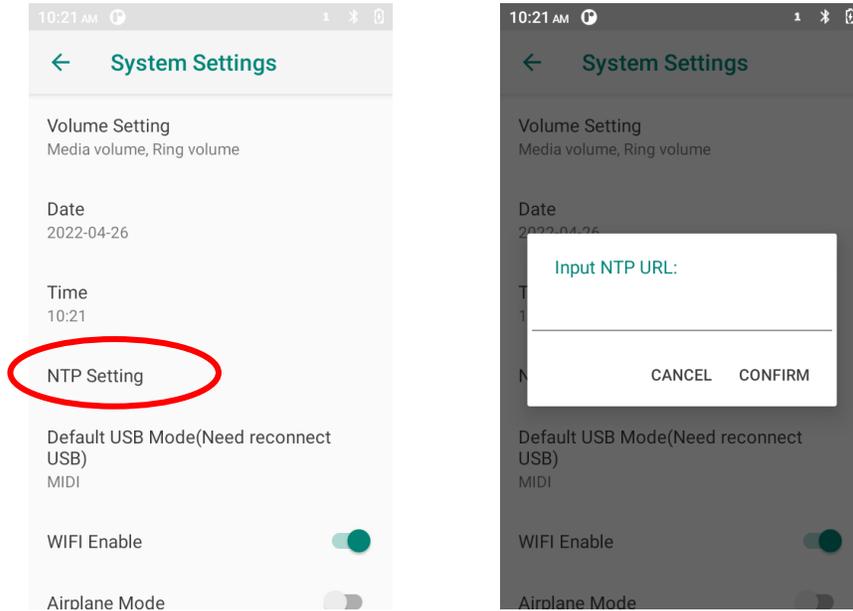
Logging in to System Settings

Tap “Quick Setting”  on the Home screen -> “System Settings”  , then you can configure some of the basic system settings per actual need.



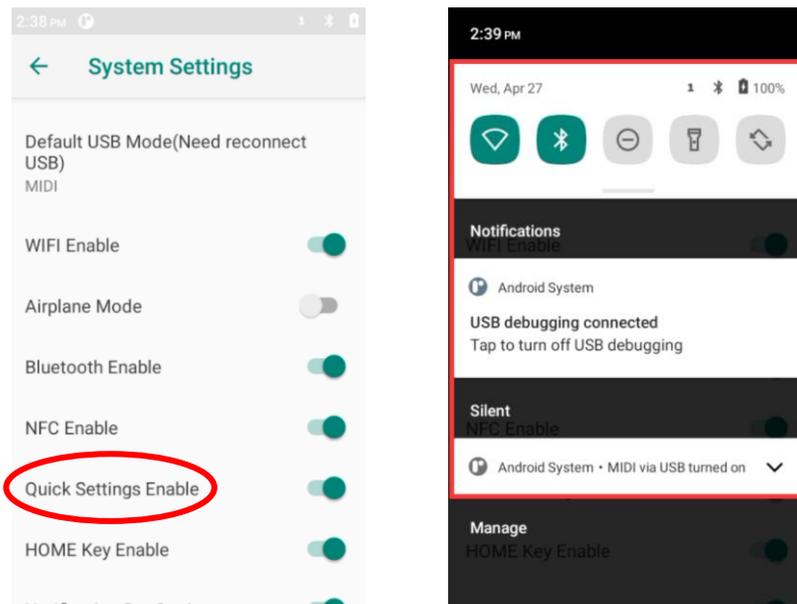
NTP Setting

Network Time Protocol(NTP) is a protocol that helps the computer's clock times to be synchronized in a network. It is empty by default. You can input the value by scanning the barcode.



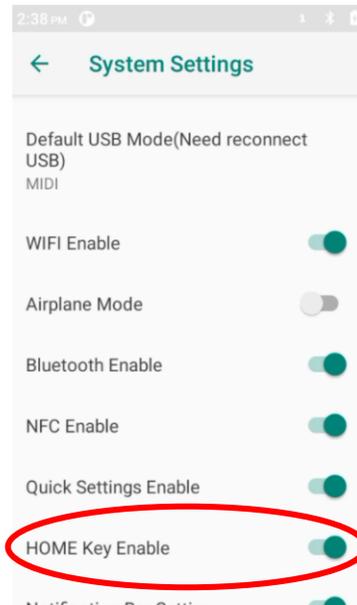
Quick Setting Enable

Quick Setting Enable: Tap to disable or enable the quick setting panel (highlight in the red box).



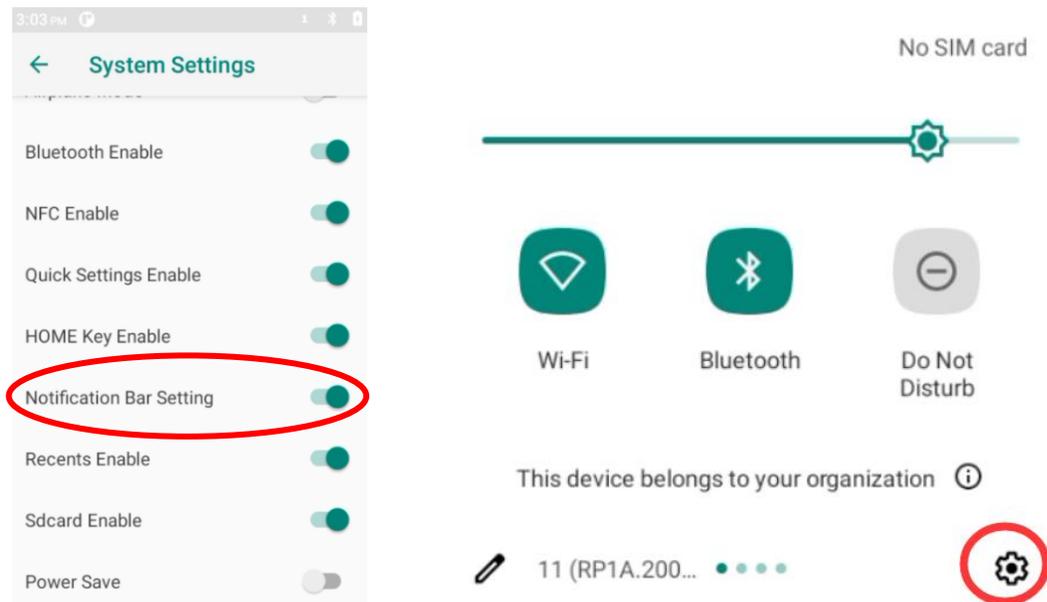
Home Key Enable

Home Key Enable: Tap to disable the Home key function, then tap the Home Key will not go to the Home Screen.



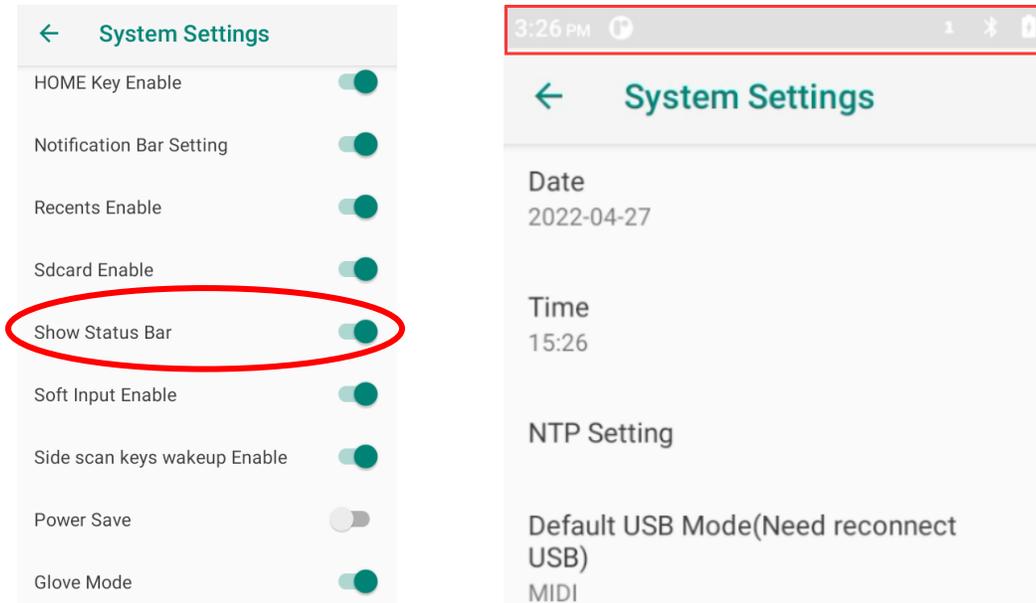
Notification Bar Setting

Notification Bar Setting: Tap to enable or disable the setting in the quick setting panel.



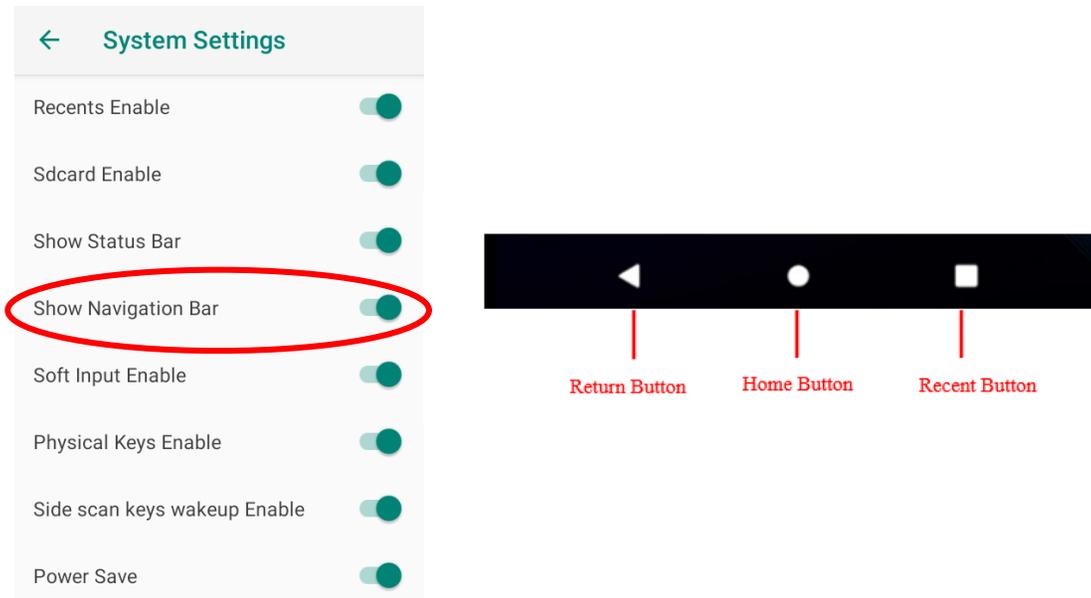
Show Status Bar

Show Status Bar: Tap to enable or disable the status bar.



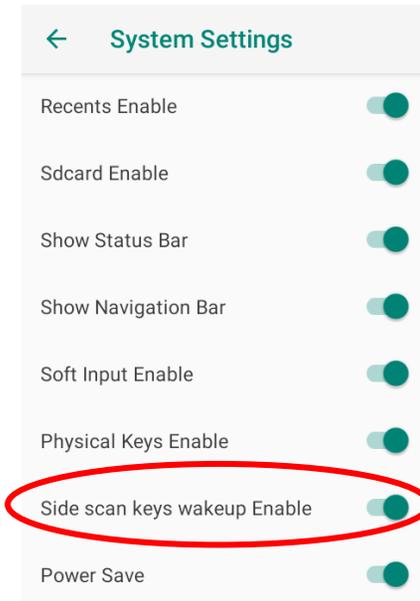
Show Navigation Bar

Tap to enable the show navigation bar function, then there will be 3 buttons (Return Button, Home Button, Recent Button) displayed at the bottom of the screen.



Side Scan Keys Wakeup Enable

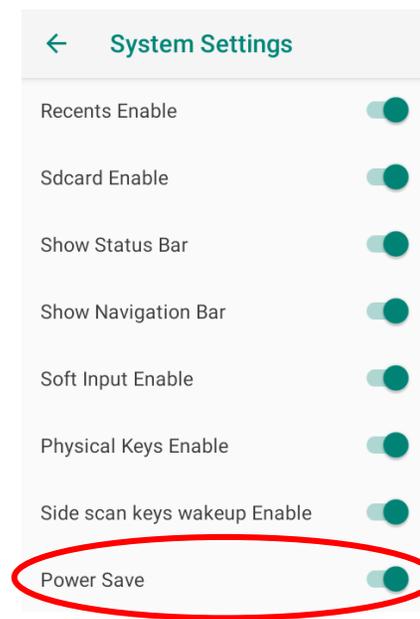
Tap to enable the “Side scan keys wakeup” function: When the screen is off, briefly press the side scan key can wake it up.



Power Save

Power save mode: it is a low-power standby mode without entering screen lock or sleep mode.

Turn on the power save mode, it will lower the screen brightness level when there is no operation for 20 seconds. Tap the screen will brighten it normally.



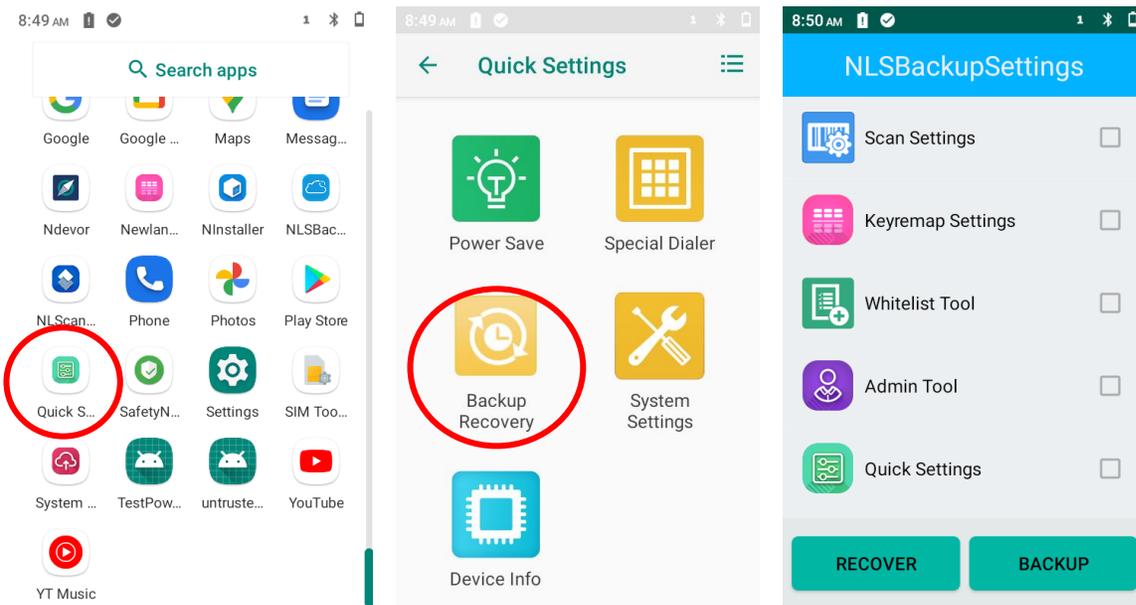
Chapter 17 Backup Recovery

Introduction

This backup recovery tool is used to backup & restore the settings of some apps. The data is imported and exported in JSON format.

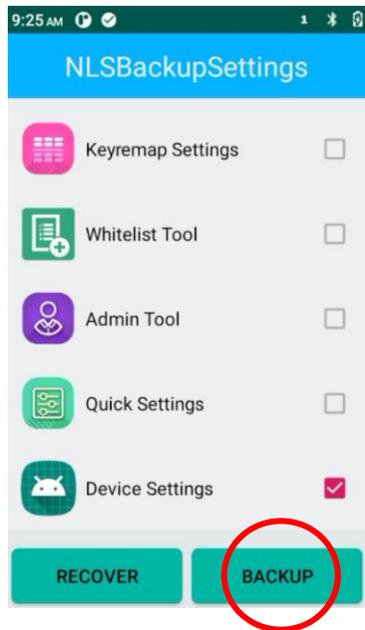
Logging in to Backup Recovery

Tap “Quick Setting”  on the Home screen -> “Backup recovery” , then you can backup & restore the settings of apps per actual needs.



Backup Settings

Select the app settings that you want to backup -> tap "BACKUP", then the system will generate a QR code -> click "Save", the exported files, which include a QR code image and a Json text, will be stored in the "NLSBackupSettings" folder.

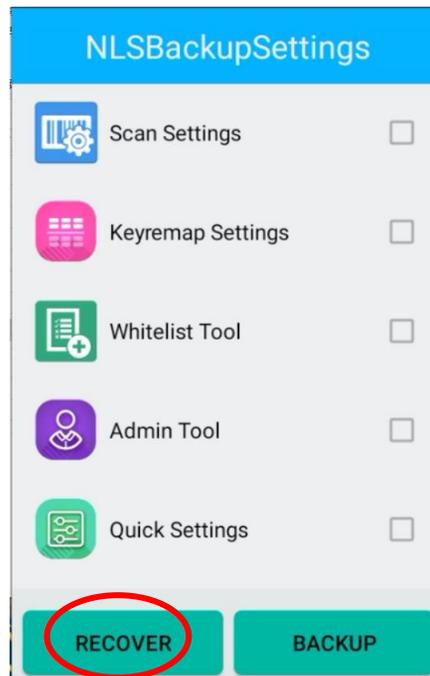
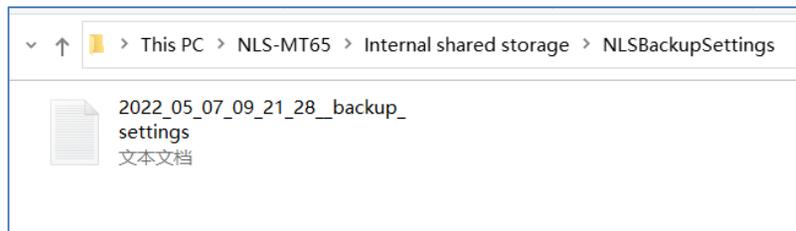


Recovery Settings

Use one of the following methods to recover the setting of apps:

1. Scan the QR code of the backup settings to restore the settings.
2. Copy the JSON text of the backup setting to NLSBackupSettings folder in the internal shared storage of the terminal -> go to “Backup recovery” app  and tap “RECOVER”.

*The JSON text can be manually edited into the required parameter before settings.



Chapter 18 Ndevor

Introduction

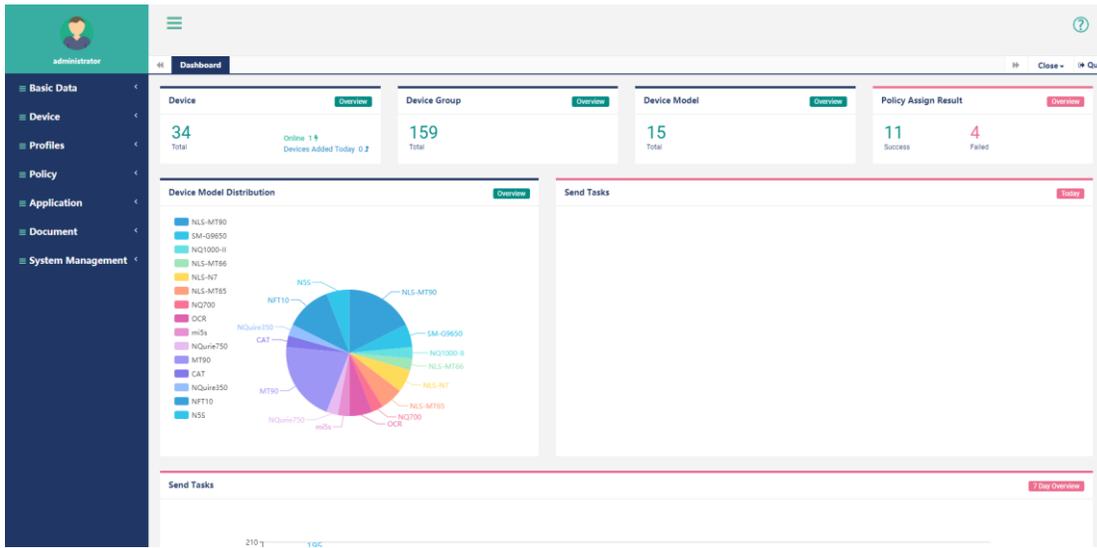
This chapter provides instructions for programming and operating the Ndevor terminal management platform (hereinafter referred to as “the Ndevor”). The Ndevor is to solve the application management problems encountered by enterprises in the implementation of a mobile terminal application system. The platform mainly provides services such as terminal system management, terminal software management, and terminal message management.

Login Management System

Step1: Login to the Ndevor management system from the PC. Open any major browser, such as Internet Explorer, Chrome, or Firefox. Enter the server address in the address box to open the login page.



Step 2: Input the user name, password, and and click login to enter the main interface of software functions.



Step 3: If there is no account available, click the “Register” on the login interface and enter your name, email, and phone number as shown below:

Ndevor
Register Account

1. Info

Name *

Name

Email *

Email

Please enter a valid Email Address, you will receive a Confirmation at this Address

Phone Number *

Phone Number

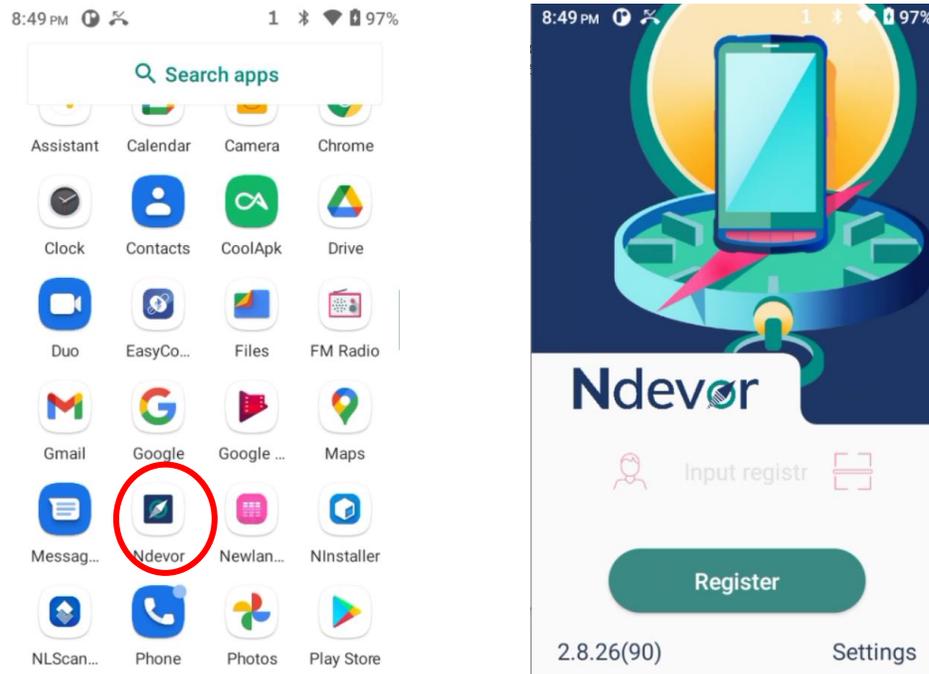
* Required

Submit Return to Login

Click “submit” after inputting all the data, and a QR code will pop up. Use the Ndevor App preset in the Newland PDA to scan the barcode and complete the registration. Then you can click “Return to Login”. The user account is the registered email address, and the initial password will be sent to the registered mailbox.

Install Ndevor App

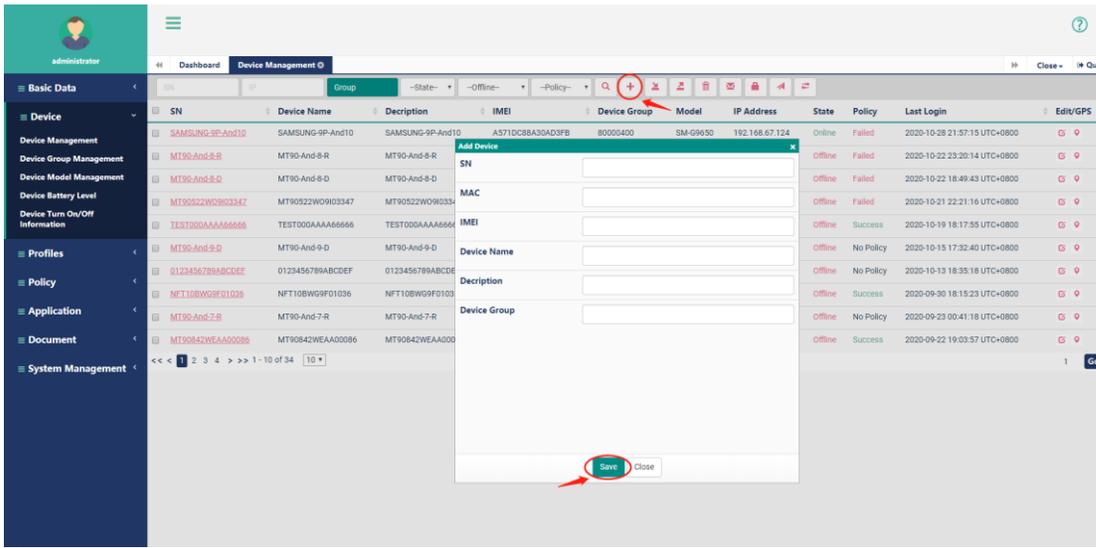
Please contact Newland Auto-ID Tech. Co., Ltd. to obtain the latest Ndevor app software and installation support, or operate with a pre-installed Ndevor app device. Below is the Ndevor Icon after installed:



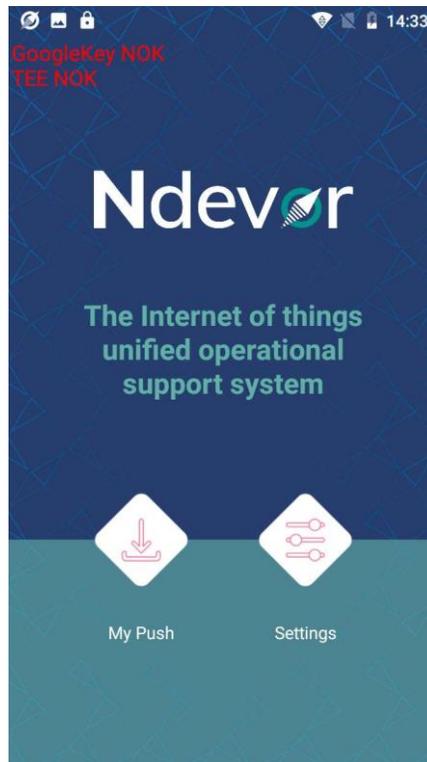
Connect Management System with Terminal App

To achieve remote control of terminal apps, the management system must be connected and bound to the terminal. During the connection process, ensure that the terminal is connected to the network, or in the same LAN environment as the management system. The detailed steps are as follows:

Step 1: Log in to the management system per the steps mentioned previously, then click "Device Management" -> "Add", and the "Add Device" window pops up, and input the corresponding information -> Click "Save".



Step 2: Click the Ndevor app on the terminal, and input the corresponding device group number on the main interface to enter the following interface (it means that the terminal is successfully connected to the management system).



Step 3: After the terminal is successfully connected to the management system, the terminal app can remotely receive programs, documents, messages, etc. sent by the management system, and respond to setting instructions sent by the management system.

Remark: For more operation details, please refer to the *Newland Ndevor User Guide*.



Newland

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