



Newland AIDC
Scanning Made Simple

Newland APP User Guide

**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.

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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	Added descriptions about Whitelist Manager, Scanning Barcodes, Special Dialer, System Update, NLScan Demo, WIFI Advance, Device Information, System Settings, Backup Recovery.	2022-05-10
V2.0.0	Added description about Camera Decode, HID Output, OCR settings, DynAuth, Profile Manager, UHF. Deleted Clean Memory, Special Dialer. Revised Admin Tool, WIFI Advance, etc.	2026-07-03

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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 Camera Decode(Engine Decode)</i>	Explains how to set Decode Output configurations.
✧ <i>Chapter 7 Admin Tool</i>	Explains how to use the Admin Tool.
✧ <i>Chapter 8 Whitelist Manager</i>	Explains how to use the Whitelist Management tool.
✧ <i>Chapter 9 Scanning Barcodes</i>	Provides the instructions as to how to scan 1D/2D barcodes and how to program the scanner.
✧ <i>Chapter 10 System Update</i>	Explains how to update the system.
✧ <i>Chapter 11 NLScan Demo</i>	Explains how to use the NLScan Demo tool.
✧ <i>Chapter 12 WIFI Advance</i>	Explains how to configure the WIFI Advance settings.
✧ <i>Chapter 13 Device Information</i>	Displays the basic information of the device.
✧ <i>Chapter 14 System Settings</i>	Explains how to configure the system settings

✧ <i>Chapter 15 Backup Recovery</i>	Explains how to backup & restore the settings of apps.
✧ <i>Chapter 16 Profile Manager</i>	Explains how to use the Profile Manager.
✧ <i>Chapter 17 OCR</i>	Explains how to configure the OCR settings.
✧ <i>Chapter 18 DynAuth</i>	Explains how to configure DynAuth.
✧ <i>Chapter 19 HID Output</i>	Explains how to set the HID Output.
✧ <i>Chapter 20 UHF</i>	Explains how to configure the UHF settings.
✧ <i>Chapter 21 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 as needed.

Apps Included in Newland Installer

- ✧ WIFI Advance
- ✧ SmartTE
- ✧ SOTI MobiControl
- ✧ NLSBackupSettings
- ✧ Admin Tool
- ✧ KEY Remap
- ✧ Engine Decode
- ✧ Ndevor
- ✧ Velocity
- ✧ EasyConnect
- ✧ OutputSettings
- ✧ Floating
- ✧ OCR
- ✧ UHF

Chapter 3 Installing/Uninstalling Apps

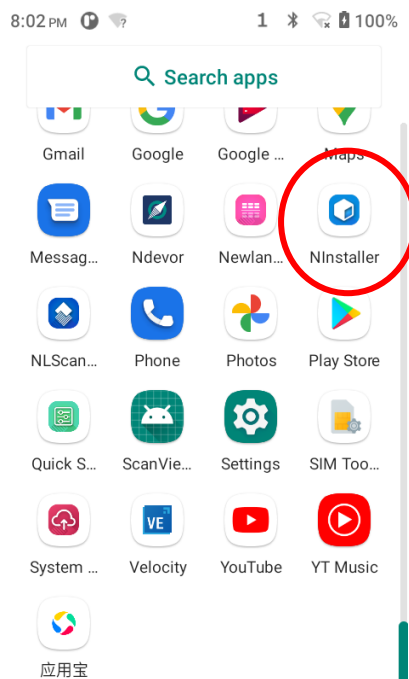
Introduction

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

Installing Apps

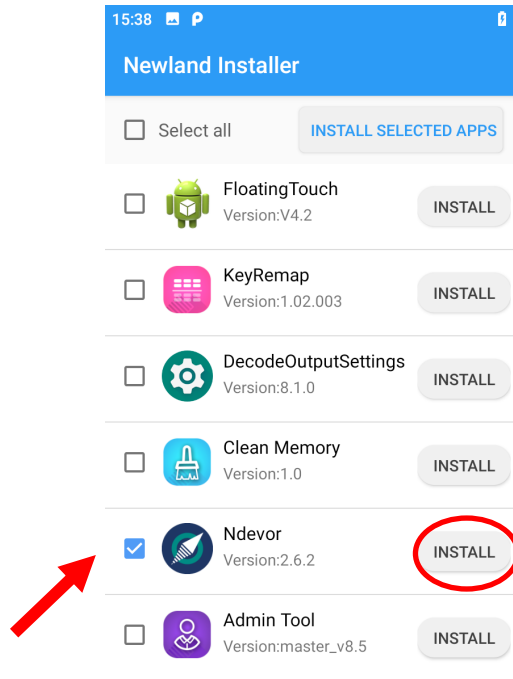
Install Newland apps via Newland Installer installed on the terminal.

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 as needed.



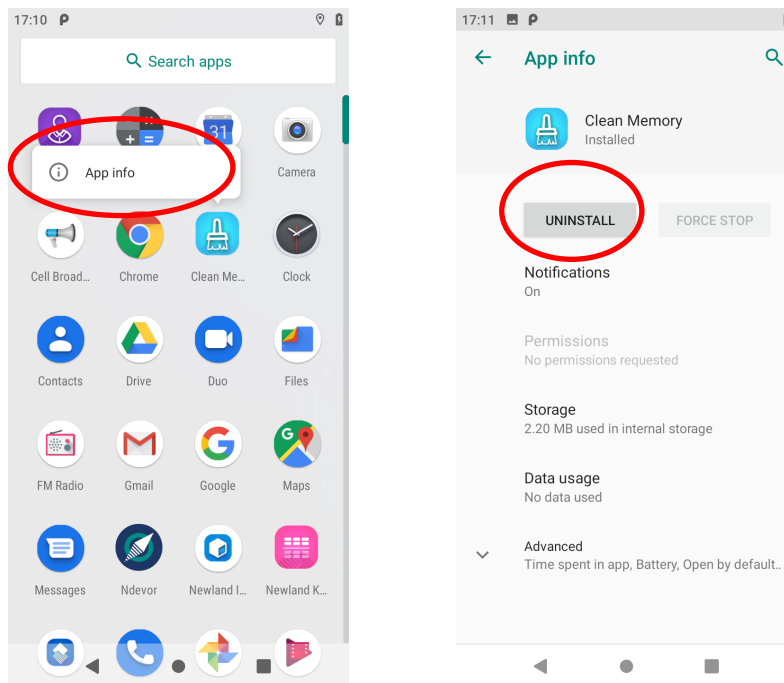
Uninstalling Apps

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

Method 1: Swipe up from the bottom of the home screen with one finger to view all apps. Tap and hold the app you want to remove until 'App info' pops up, then tap it and choose 'Uninstall'.

Method 2: Tap "Settings" -> "Apps" -> "See all apps"-> the app you want to uninstall -> "UNINSTALL".

*The applications that come preinstalled with the system cannot be uninstalled.



Chapter 4 Floating Button Setting

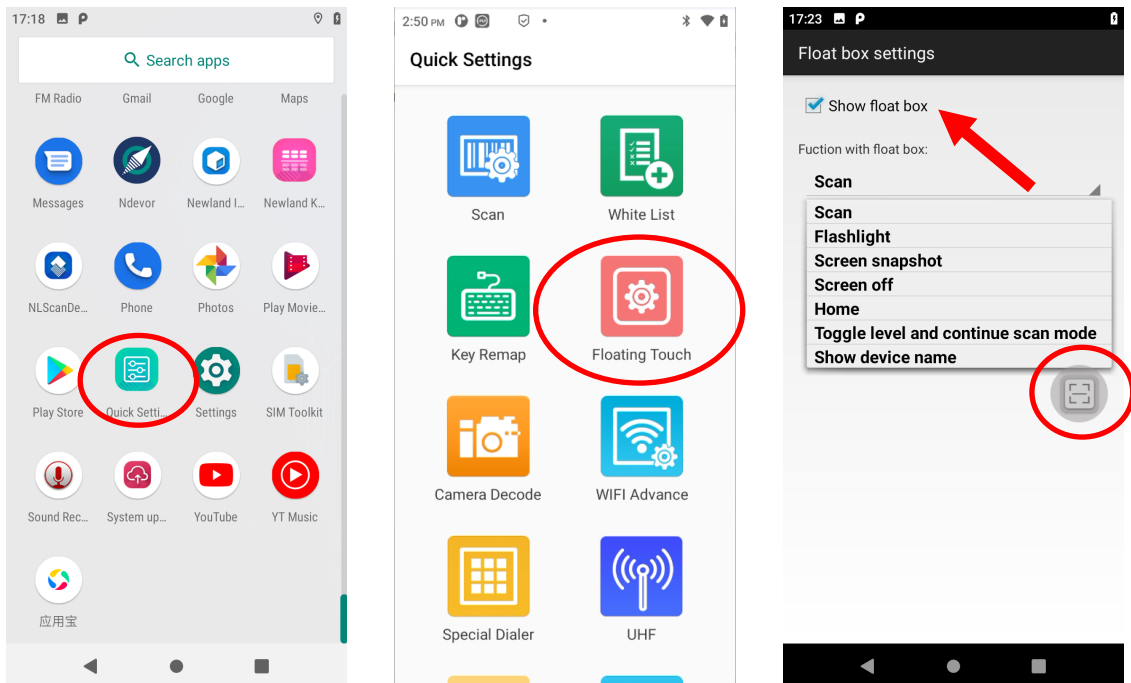
Introduction

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 mode", "Continuous mode", "Pulse mode" and "Delay mode" (**Toggle 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 Touch" -> select/unselect "Show float box".

Press and hold the floating button  can make it movable.



Function with float box:

Scan: The floating button is a scan button.

Flashlight: The floating button can control flashlight.

Screen snapshot: The floating button can take a snapshot.

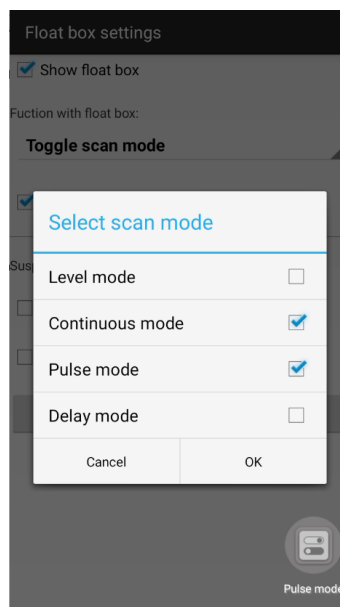
Screen off: The floating button can turn off the screen.

Home: The floating button is the home button.

Toggle scan mode: You can choose from four scan modes. Tap the floating button to switch between them.

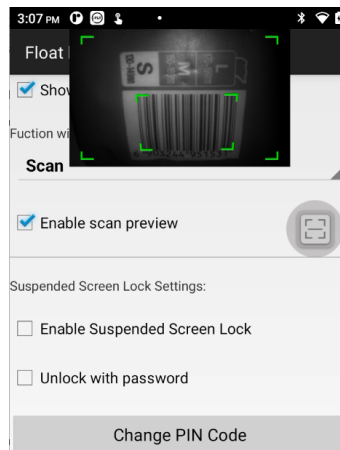
Show device name: The device name will display on the screen.

USB host: Switch to toggle the USB mode between host and device (MT90 only).



Enable scan preview:

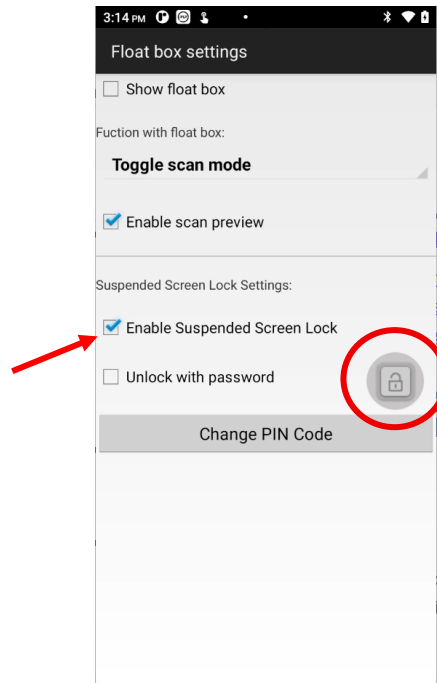
When this option is checked, a small preview window appears during scanning.



Suspended Screen Lock Settings:

Enable Suspended Screen Lock: By checking this option, a floating lock button will appear. The floating lock button can lock the screen, preventing accidental touches. You need to touch the floating lock button again to unlock.

Unlock with password: By checking this option, you need to enter a password to unlock the screen lock.



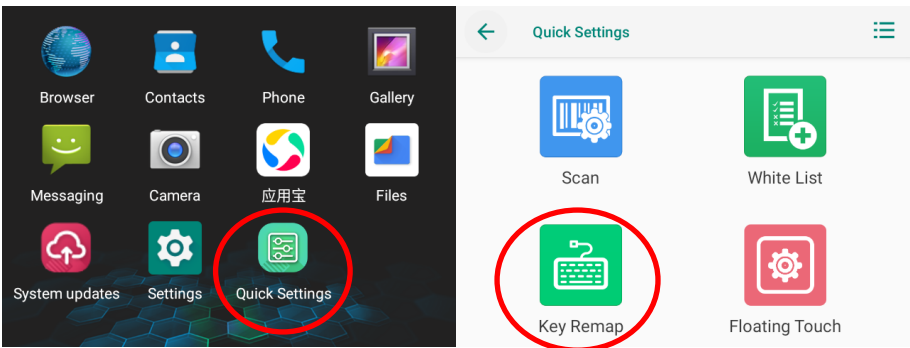
Chapter 5 Key Remap

Introduction

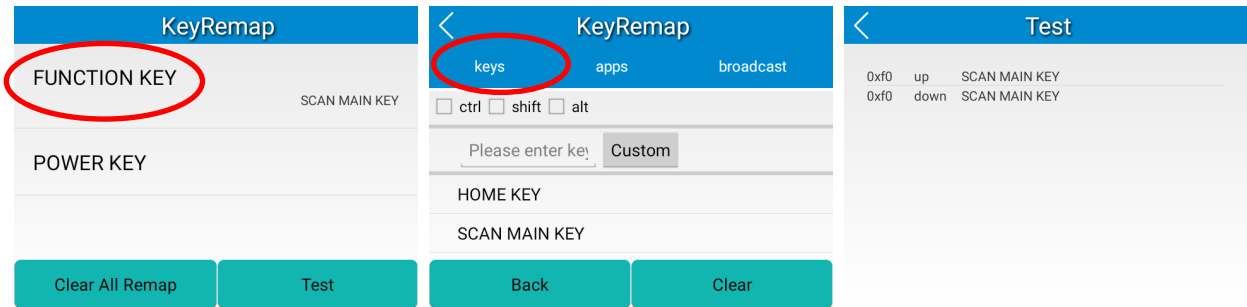
This app allows you to remap the keys on the terminal to function as a different key, or to make them into shortcuts to launch an application, or to send a specific broadcast.

Start the Key Remap

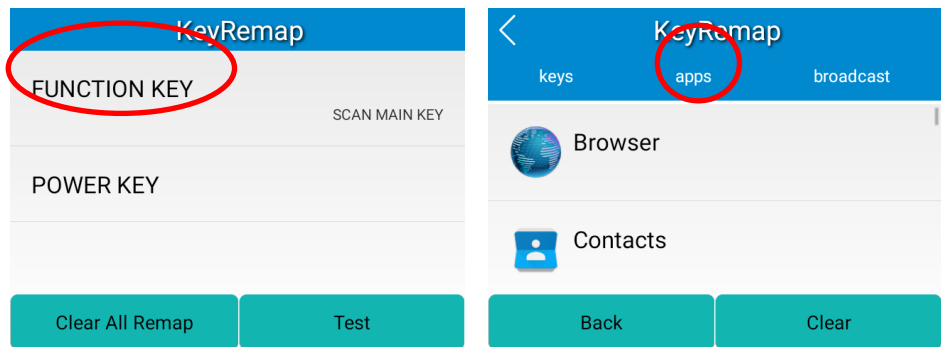
Start the Key Remap app: Tap the quick setting app icon  on the Home screen then .



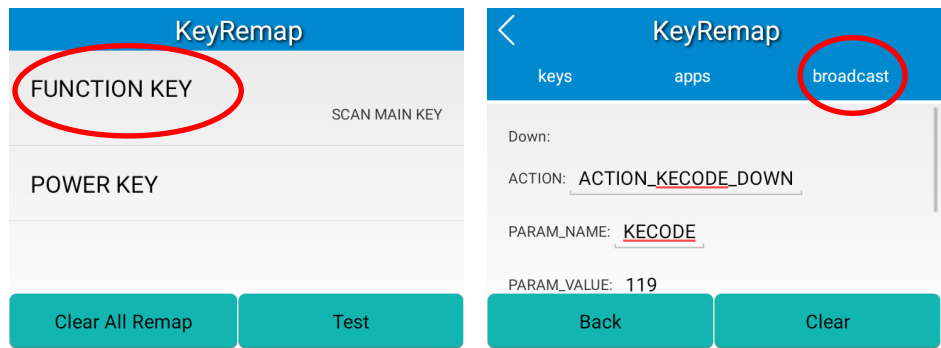
1. **Remap a key to another key:** After starting the Key Remap app, select the key you want to remap, and then tap “keys” and select/enter the key to which you want to remap it.



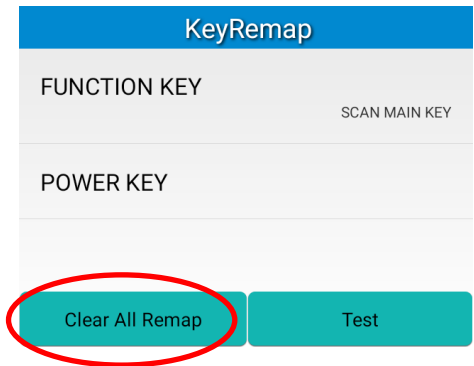
2. **Remap a key to an app:** After starting the Key Remap app, select the key you want to remap, and then tap “apps” and select the app to which you want to remap it.



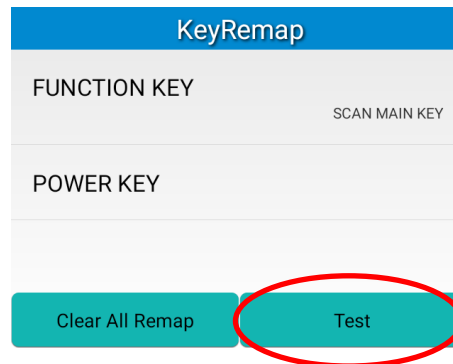
3. **Remap a key to broadcast:** After starting the Key Remap app, select the key you want to remap, and then tap “broadcast” and defined the action for pressing remap key up or down.



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



-
5. **Test:** Test the function of the remap key you just set.



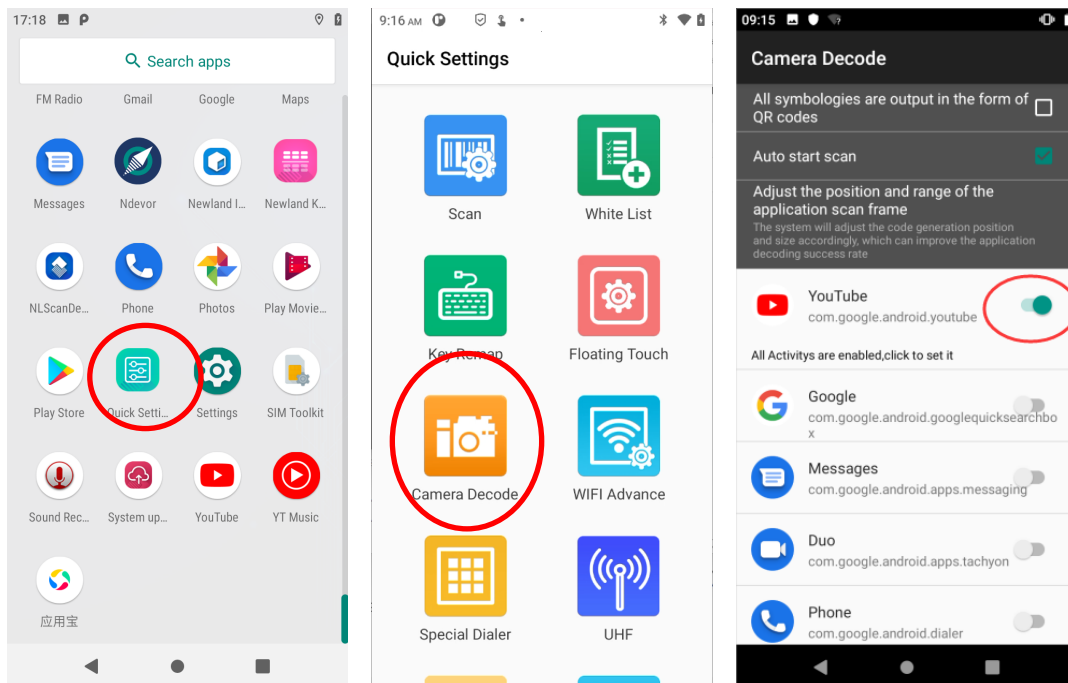
Chapter 6 Camera Decode (Engine Decode)

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 Decode"  -> Enable the decode output setting of the app. Then the select app will automatically use the scan camera for scanning. Tap the app name again to select which activities to enable. All activities are selected by default.



All symbologies are output in the form QR codes: The device first decodes the original data (e.g., Code 128, EAN-13, PDF417, Data Matrix, etc.) and then re-encodes that data into a QR code before outputting it.

Auto start scan: The scan will run automatically when the camera is turned on.

Adjust the position and range of the application scan frame: Tap this option, then you can change the scanning area by dragging the frame. The three buttons below from left to right are back, reset and confirm.



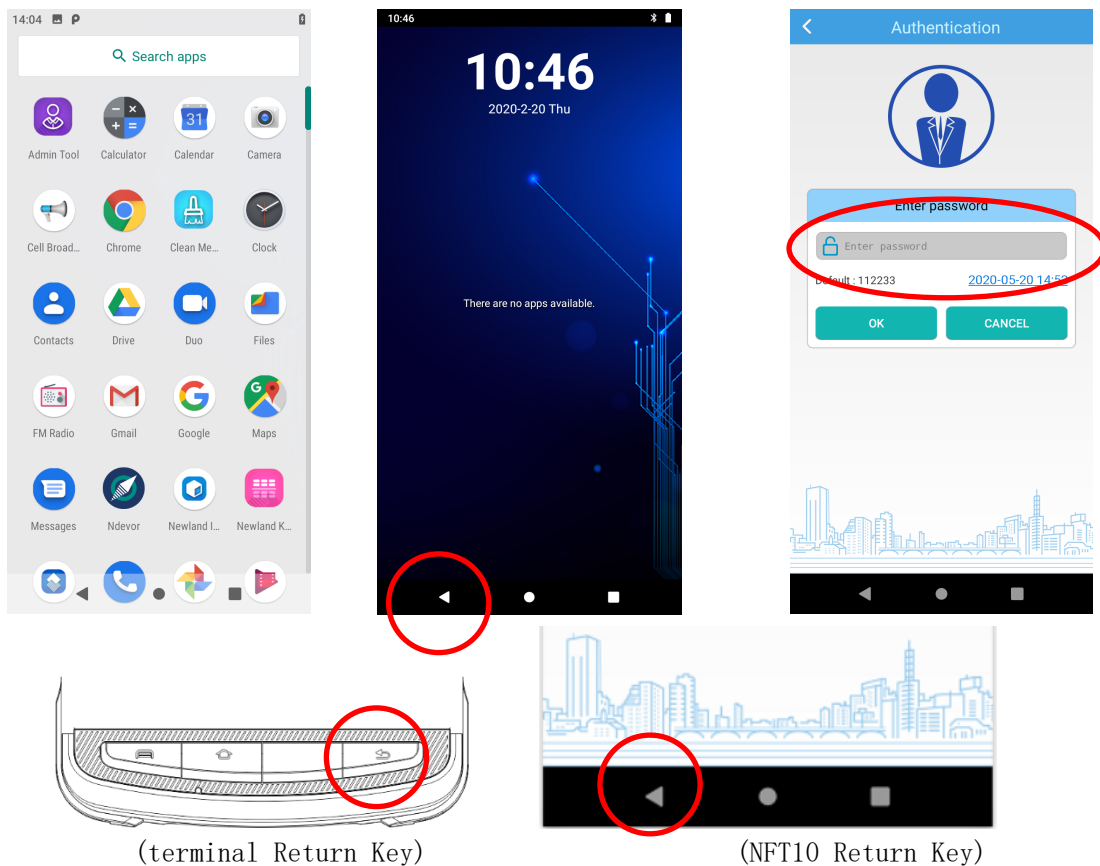
Chapter 7 Admin Tool

Introduction

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

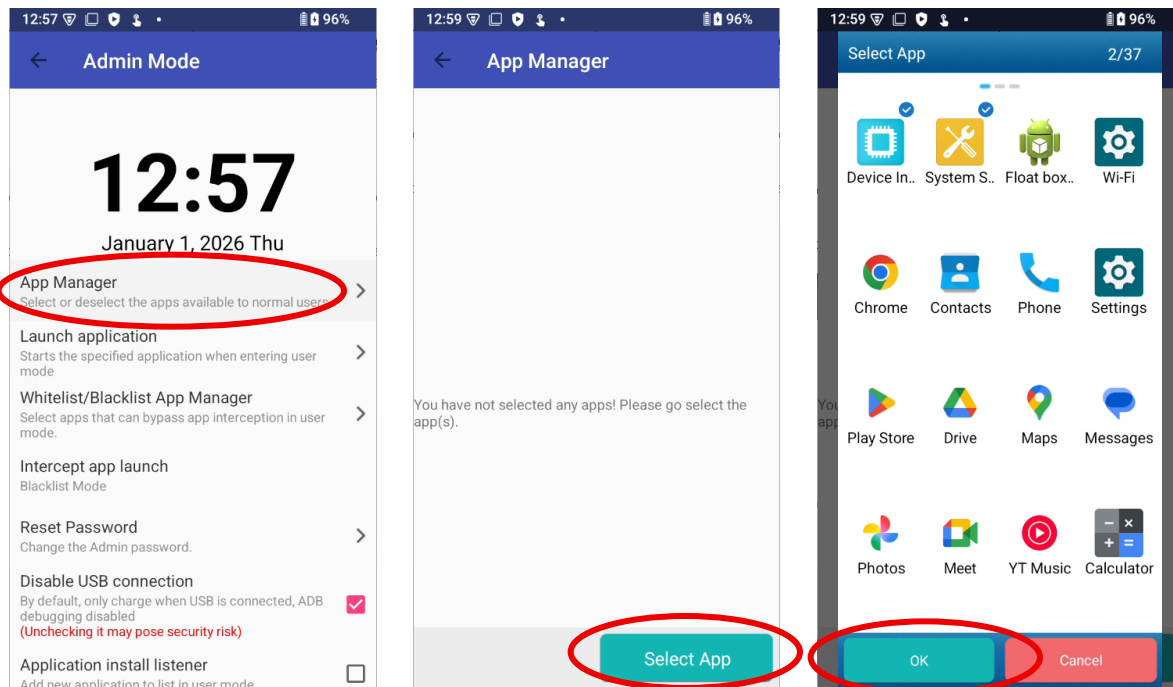
Launch the Admin Tool

Tap the Quick Setting app icon  -> Tap 'Admin Tool'  to launch the admin tool and enter the User mode. If you want to exit the User mode. Tap the "Return Button" on the front panel and then enter the password (default: 112233).

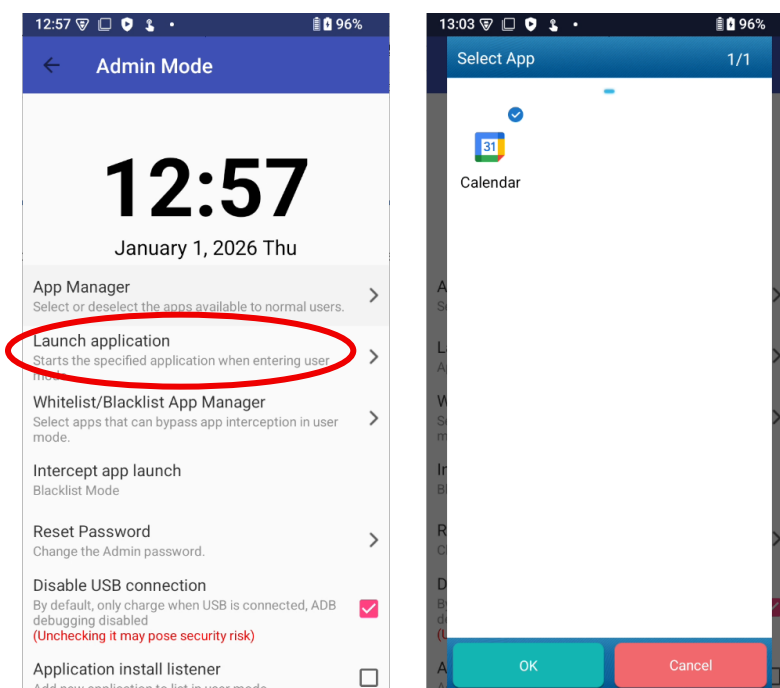


When in the Admin mode, you may set the following parameters as needed.

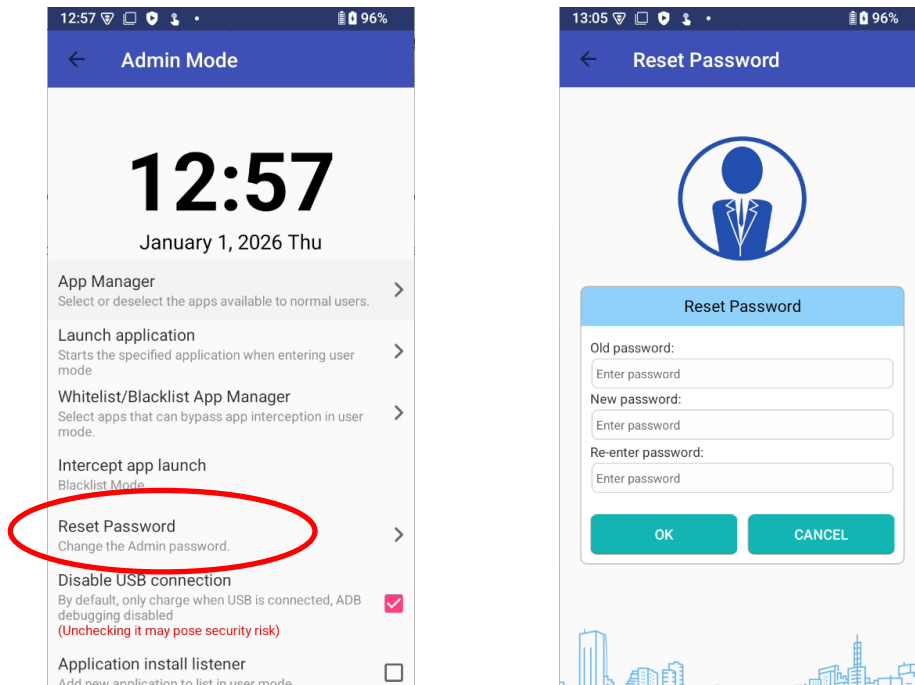
1. **App Manager:** Tap “App Manager” -> “Select App”, then select or deselect the apps available to normal users.



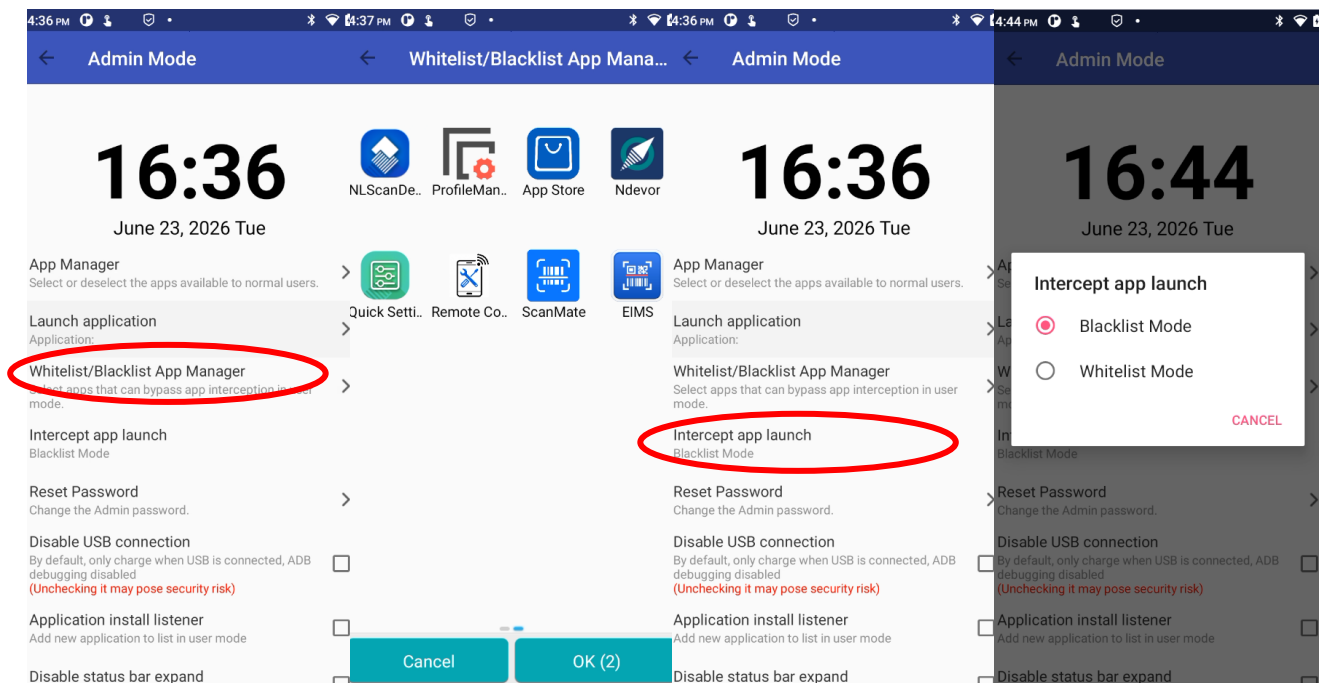
2. **Launch Application:** Start the specified application when entering user mode. Please note that only one app can be set.



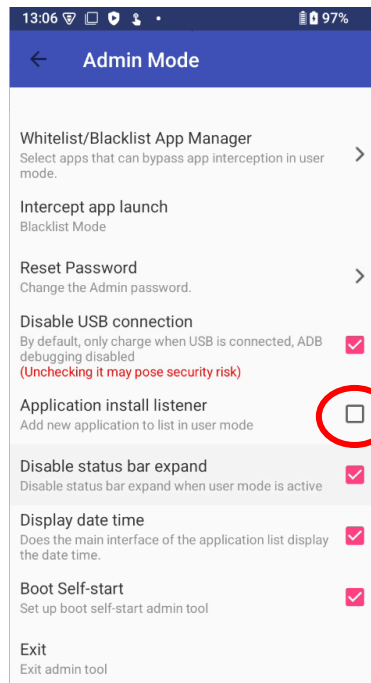
3. Reset Password: Change the Admin password.



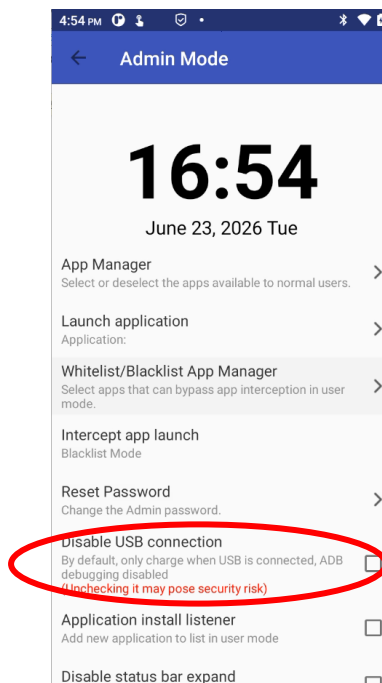
4. Whitelist/Blacklist App Manager: Select apps that can bypass/stick to the restrictions in User mode. You can change “Blacklist Mode” and “Whitelist Mode” in “Intercept app launch” option.



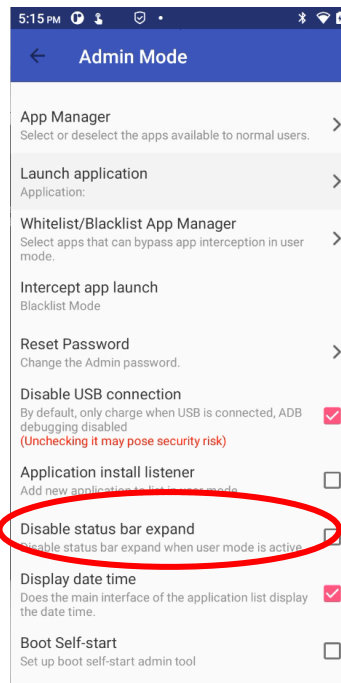
5. **Application Install Listener:** Add new application to list in user mode.



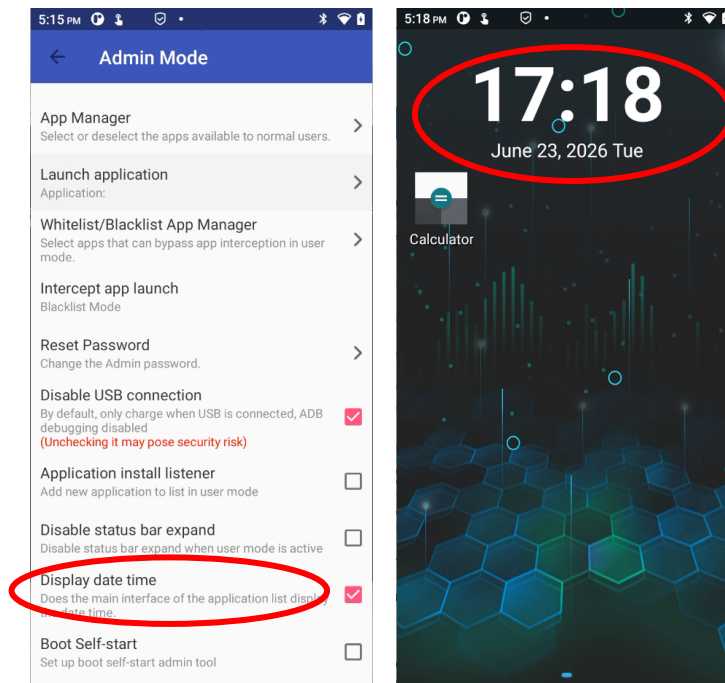
6. **Disable USB connection:** By default, USB is only for charging and ADB debugging mode is banned. Note: Unchecking this may pose a high risk.



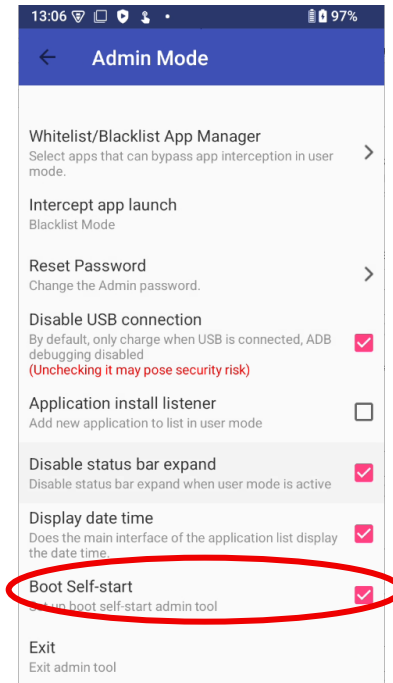
7. **Disable status bar expand:** Disable status bar expands when user mode is active.



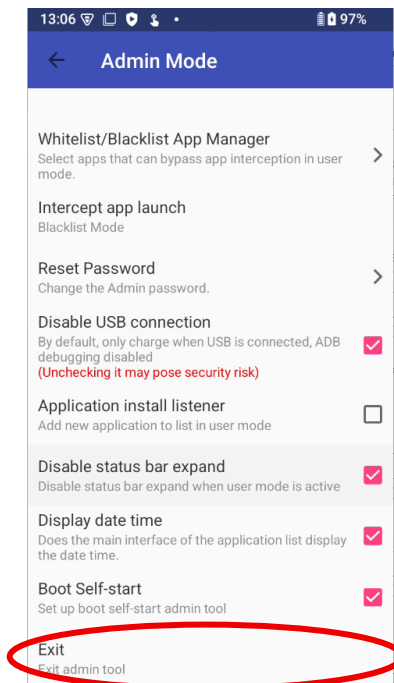
8. **Display date time:** Whether the User mode's main interface displays the date and time.



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



10. **Exit:** Exit admin tool.



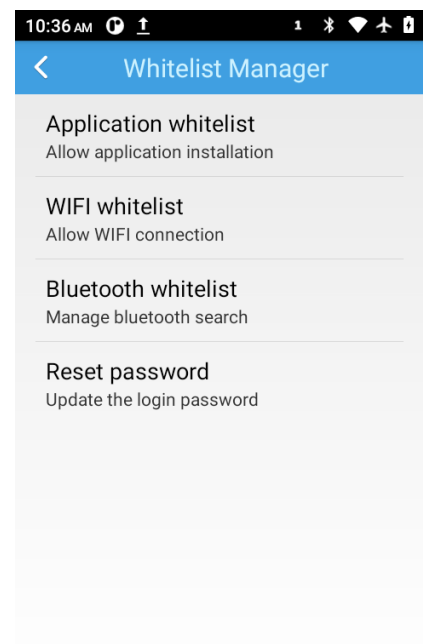
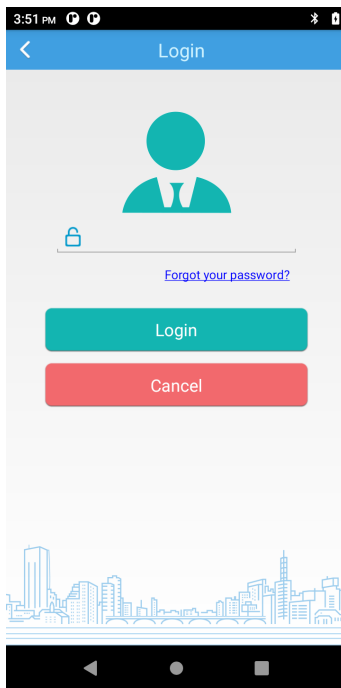
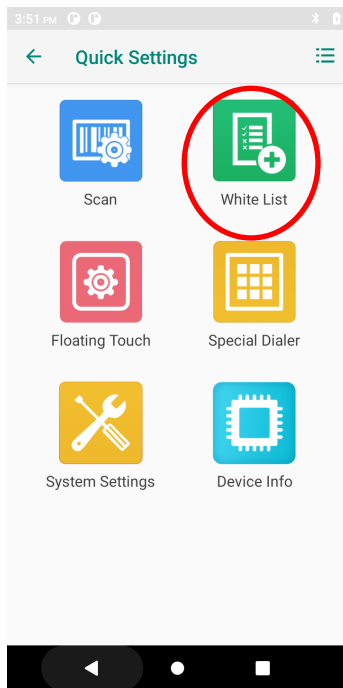
Chapter 8 Whitelist Manager

Introduction

The Whitelist Manager app is used to specify the apps users can install, and the Wi-Fi and Bluetooth connections they can use 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 needed.

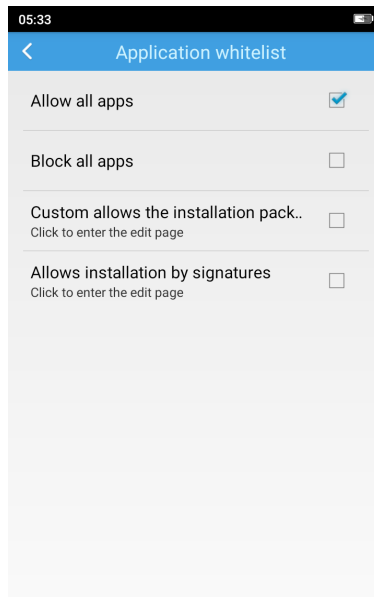


When in the Whitelist Manager app, you may set the following parameters as needed.

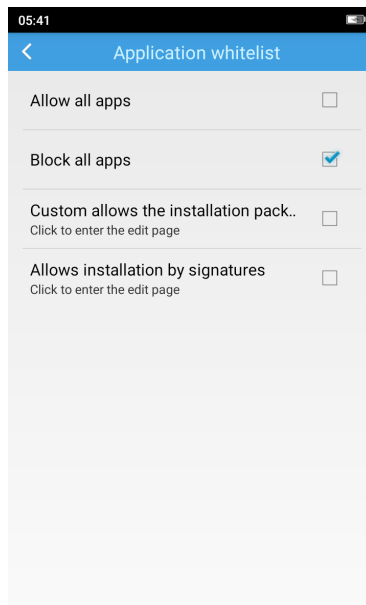
Application Whitelist

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

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

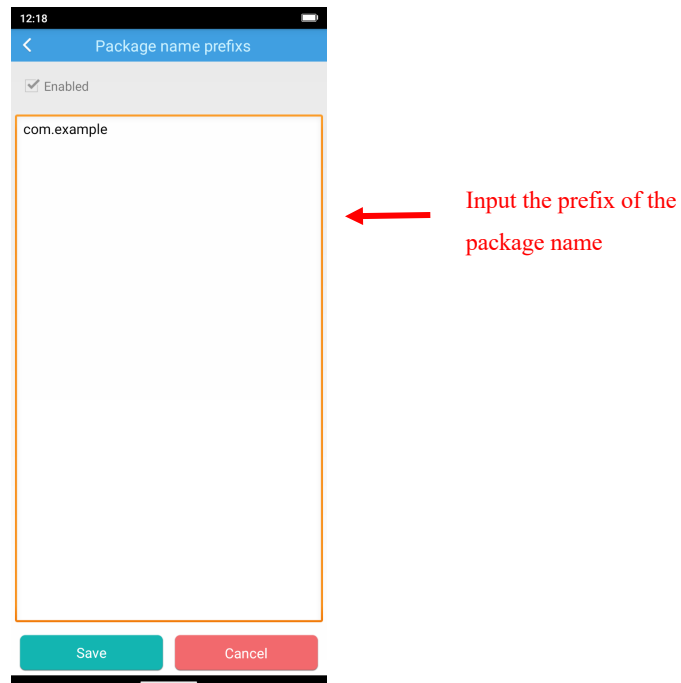


- 2) Block all apps: Select to block all the application installation.

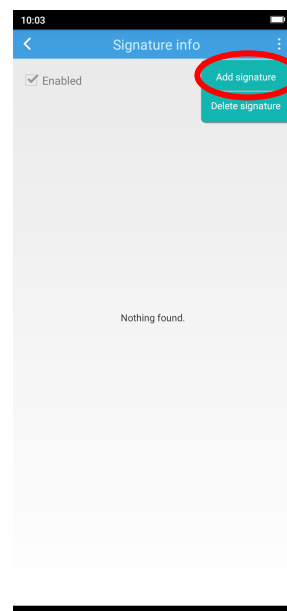


- 3) Custom allows the installation pack: This feature only allows you to install an app that has the same prefix of the package name as the setting. For example, if you set the prefix to "com.example", then the app named like

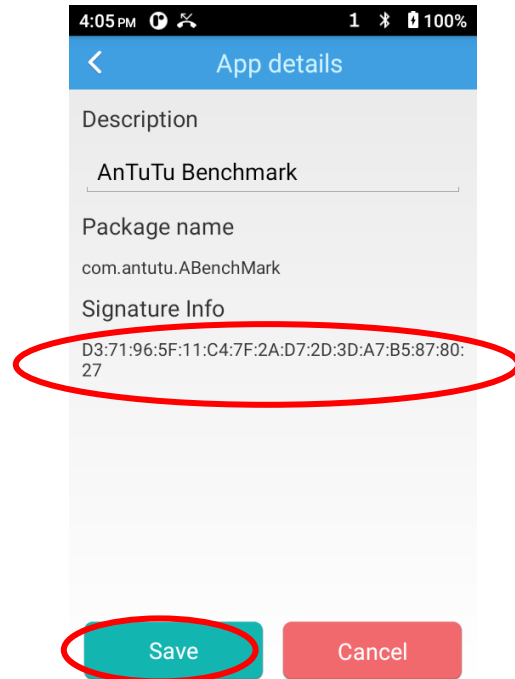
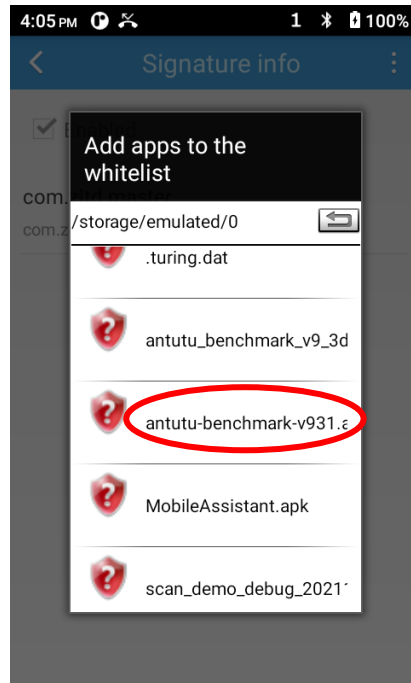
“com.example.myapplication” is allowed to install, otherwise, the installation will fail. If there are multiple app package name prefixes, you can enter them on separate lines, with one prefix per line and each line separated by a carriage return.



- 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”.



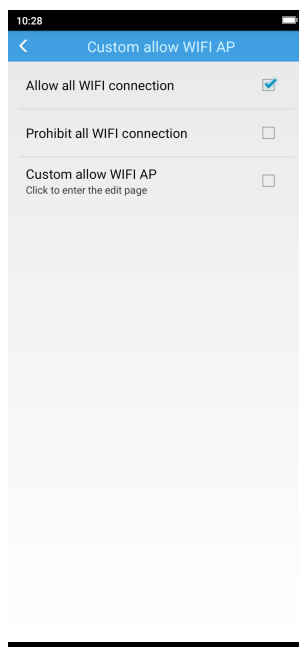
- b) Select the install package file. Then select "Save".



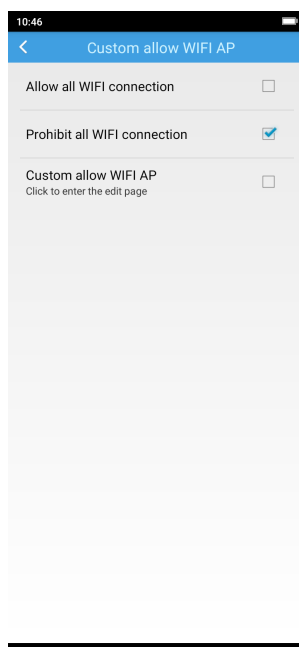
WIFI Whitelist

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.

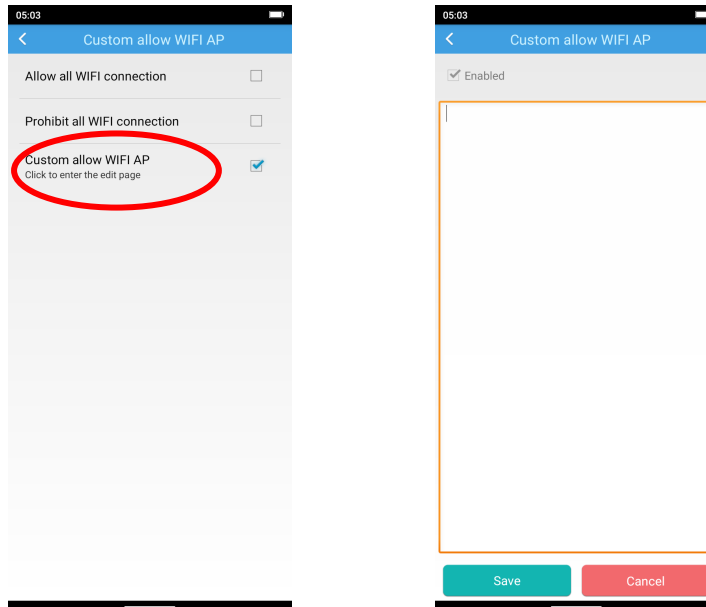


- 2) Prohibit all WIFI connection: Select to prohibit all the WIFI Connection.



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

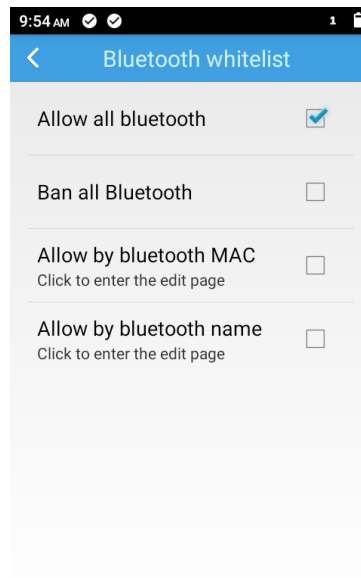
Click “Custom allow WIFI AP” to enter the edit page, then input the WIFI SSID that you allow to connect. If there are multiple Wi-Fi SSIDs that need to be added to the whitelist, you can enter them on separate lines, with one SSID per line and each line separated by a carriage return.



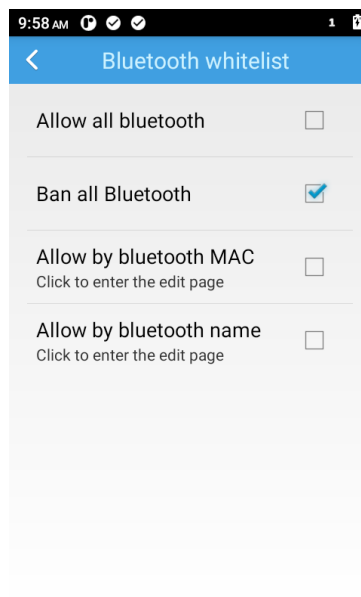
Bluetooth Whitelist

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

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

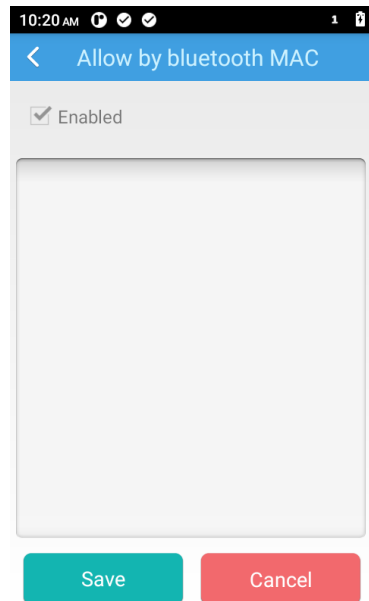


- 2) Ban all Bluetooth: Select to prohibit all Bluetooth Connection.



-
- 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. If there are multiple Bluetooth MAC addresses that need to be added to the whitelist, you can enter them on separate lines, with one MAC address per line and each line separated by a carriage return.



10:20 AM

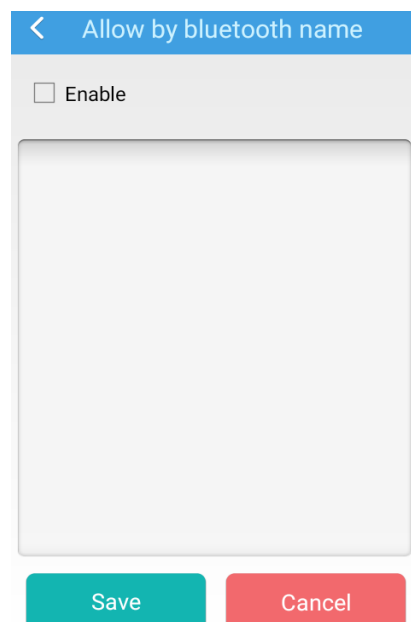
< Allow by bluetooth MAC

☒ Enabled

Save Cancel

- 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. If there are multiple Bluetooth names that need to be added to the whitelist, you can enter them on separate lines, with one Bluetooth name per line and each line separated by a carriage return.



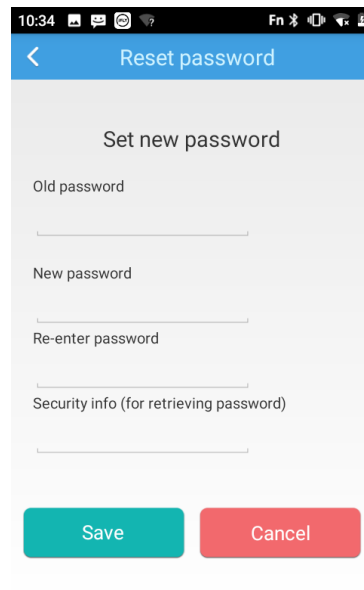
< Allow by bluetooth name

☐ Enable

Save Cancel

Reset Password

Reset Password: Change the Whitelist Manager login password.



A screenshot of a mobile application interface for resetting a password. The screen has a blue header bar with a back arrow and the text "Reset password". Below the header, the title "Set new password" is centered. There are four input fields: "Old password", "New password", "Re-enter password", and "Security info (for retrieving password)". Each field has a corresponding text label above it. At the bottom, there are two buttons: a teal "Save" button and a red "Cancel" button. The status bar at the top shows the time as 10:34 and various system icons.

Chapter 9 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

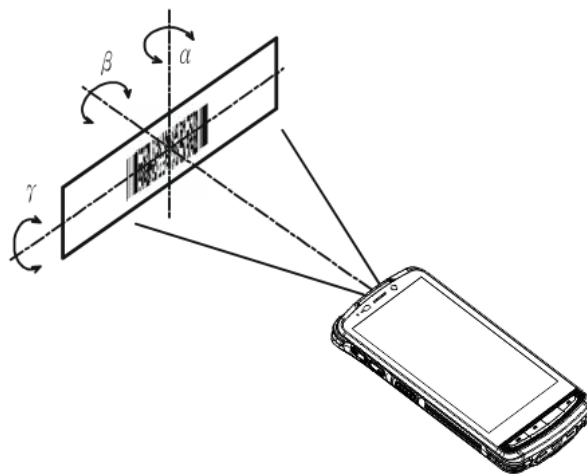
Adjust the scan angle and the distance between the terminal and the target barcode to make them fall into the following ranges:

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)

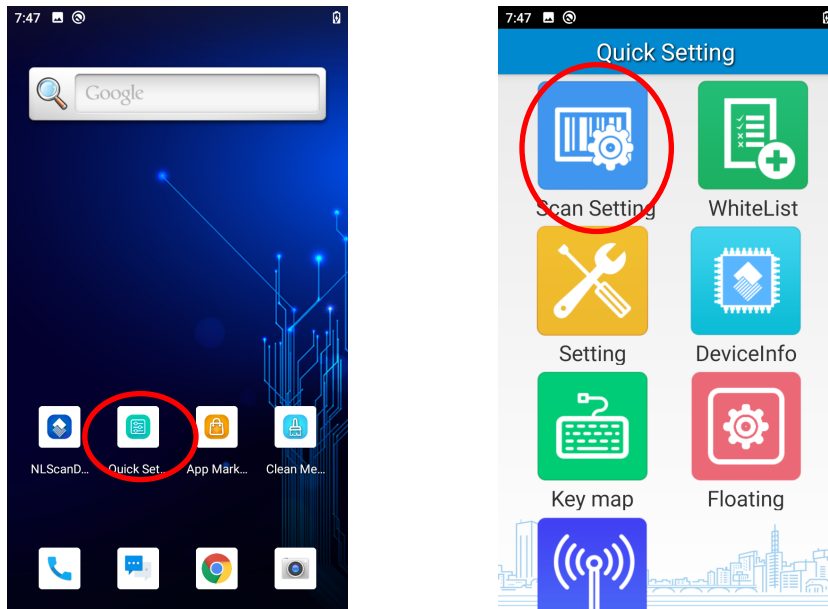
Pitch (γ) < 45° (5°- 20°preferably)

Roll (β) = 0°- 360°



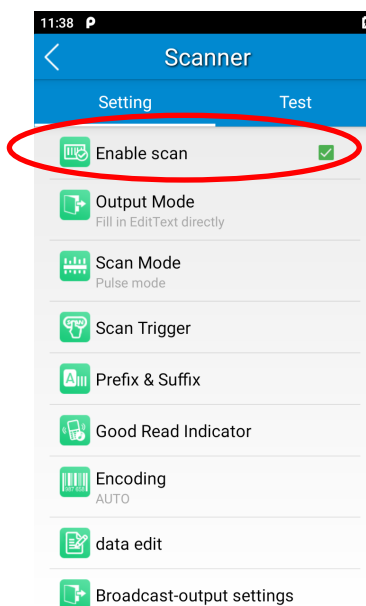
Programming Scanner

Tap the app icon  on the Home screen then  Scan Setting.. Then configure the scanner parameters as needed.



Enable Scan

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



Output Mode

The terminal provides four output modes: Simulate keystroke, Fill in EditText directly, Output via API and Output by clipboard.

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

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

4. **Output by clipboard:** Output scanned data to clipboard.

Additional broadcast output: Scanned data will also be sent via broadcast.

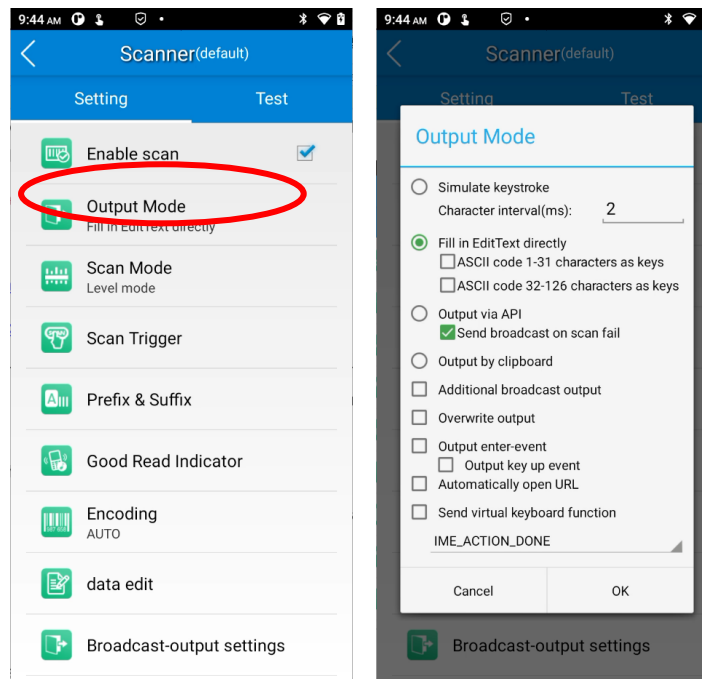
Overwrite output: Clear the text input box before sending the barcode currently scanned to make sure only the most recently scanned data is present in the text input box. This feature is available only when **Simulate keystroke** or **Fill in EditText directly** is selected.

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

Output key up event: Send an Enter Up event after each barcode is scanned.

Automatically open URL: If scanned data is a URL, it will be opened automatically.

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:

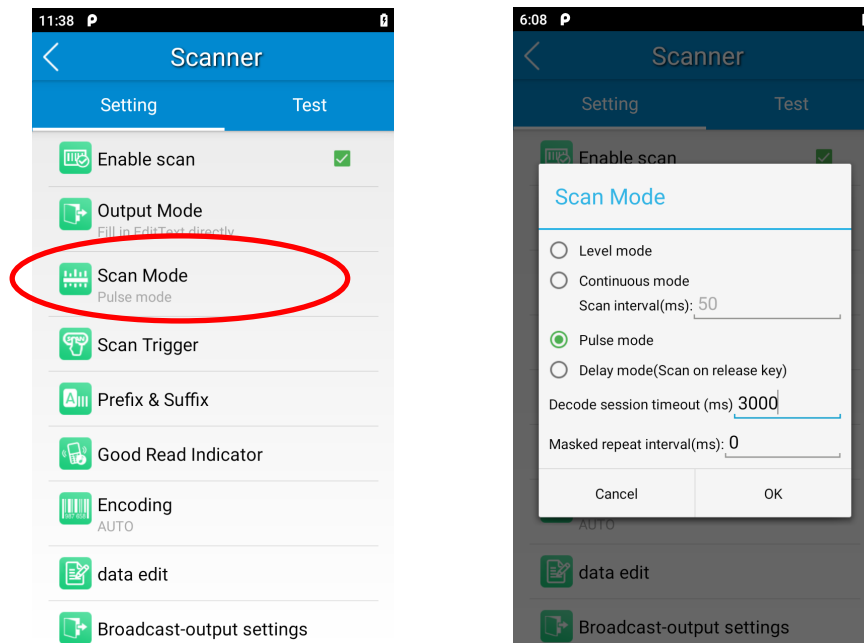
1. **Level mode:** Press and hold the scan trigger to start a decode session which continues until the trigger is released. The session will also stop automatically upon time out or a successful scan.
2. **Continuous mode:** Press the scan trigger to continuously read barcodes. To suspend or resume scan operation, simply press the scan trigger again.

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 scan keys on the terminal and the trigger on the pistol grip can all serve as scan triggers. Enable or disable them as needed.

1. **SCAN key:** Use the Scan key on the front panel of the terminal as a scan trigger. (This is for the device with the Scan key on the front panel)
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.
4. **Stock SCAN key:** Use the trigger on the pistol grip attached to the terminal as a scan trigger.

You can also modify scan patterns for each SCAN key.

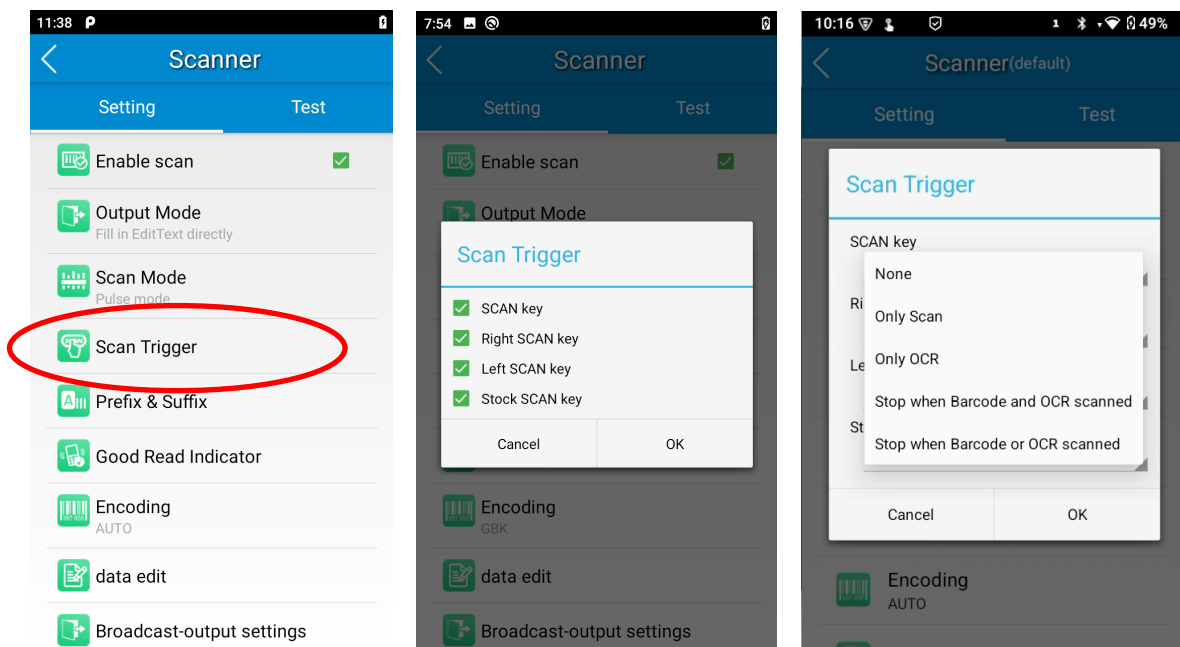
None: Disables the scan trigger completely.

Only Scan: After pressing the SCAN key, the device will only perform standard 1D/2D barcode scanning.

Only OCR: After pressing the SCAN key, the device will only perform Optical Character Recognition (OCR).

Stop when Barcode and OCR scanned: When the scan key is pressed, the device attempts to detect **both** a barcode and an OCR text simultaneously. The scanning process will only stop and return a result once **both** types of data are successfully captured in a single session.

Stop when Barcode or OCR scanned: The device will attempt to detect **either** a barcode or an OCR text. The scanning process stops immediately as soon as it successfully captures **either** the barcode or the OCR text (whichever is detected first).



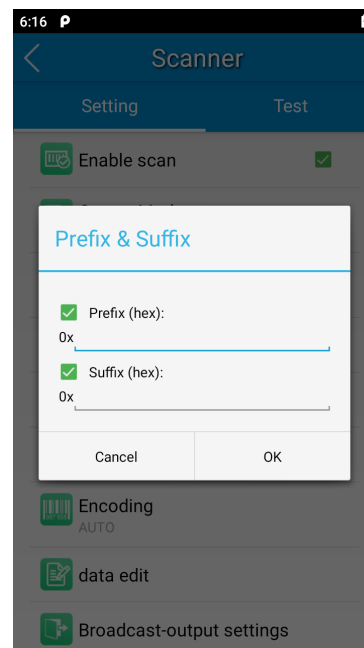
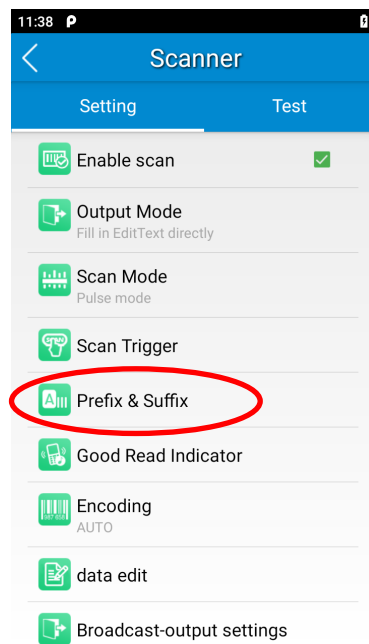
Prefix & Suffix

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 specific prefix before each barcode to indicate the scanner ID or product type, set the prefix to the desired hex value (e.g., "01" for Scanner A);

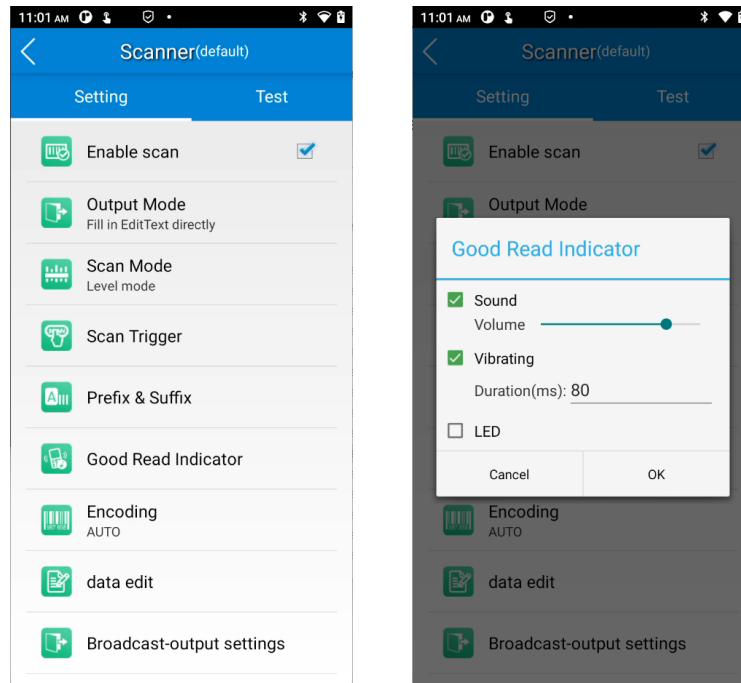
If you want to add a Carriage Return character after each barcode, set the suffix to “0A”, which is the standard line break used in Linux and Unix environments.



Good Read Indicator

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

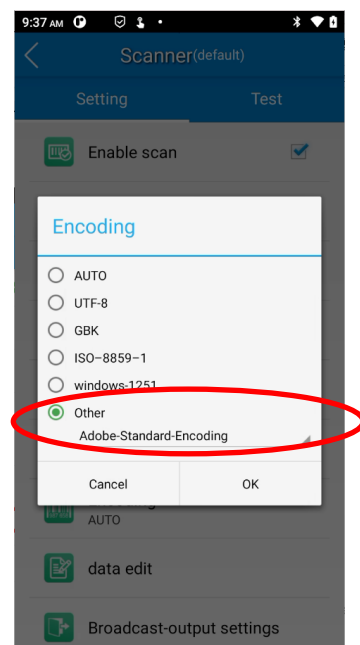
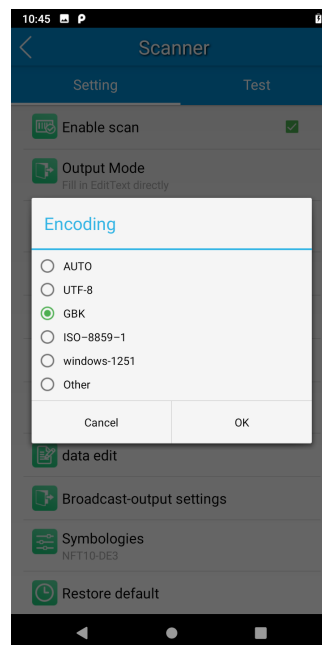
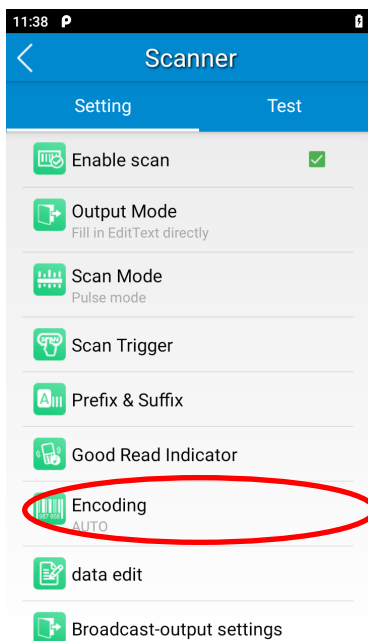
1. **Sound:** The terminal issues a short beep to indicate a good read and you can adjust the volume.
2. **Vibrating:** The terminal vibrates to indicate a good read and you can adjust vibration's duration.
3. **LED:** The blue LED on the terminal flashes once to indicate a good read.



Encoding

Choose a character encoding to interpret barcode data.

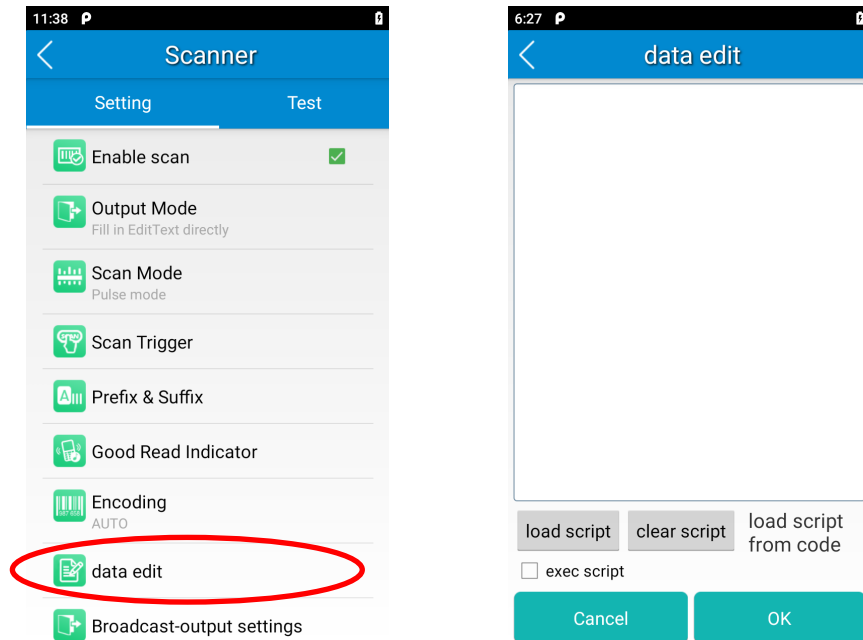
1. **AUTO:** The terminal determines automatically if the target barcode uses UTF-8, GBK, ISO-8859-1 and windows-1251 encoding. If the terminal produces the wrong output, you may need to choose or enter a specific character encoding.
2. **UTF-8:** Dominant Unicode encoding.
3. **GBK:** A character encoding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



Data Edit

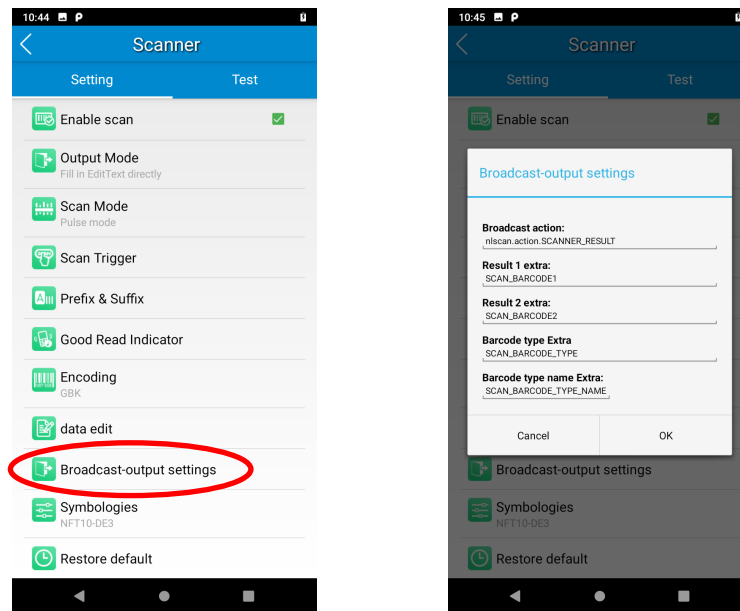
This feature allows you to edit barcode data with a script.

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.



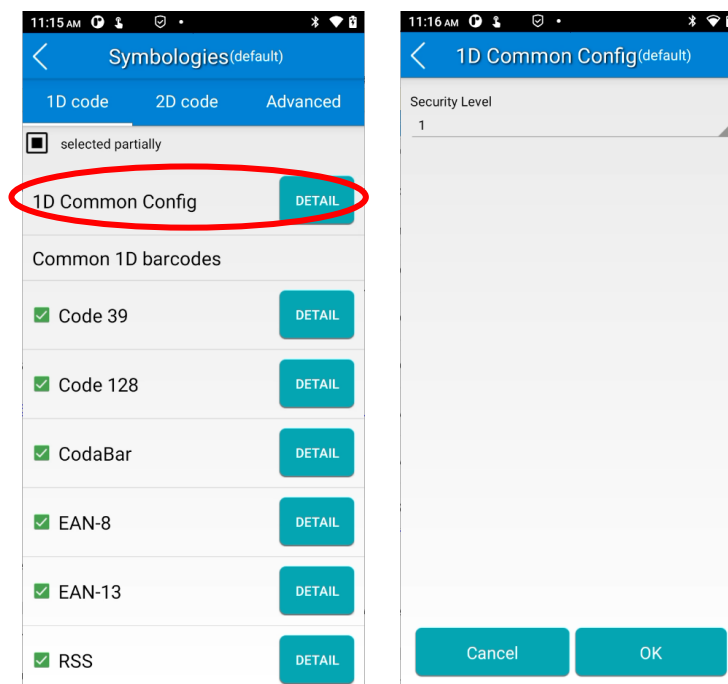
Symbologies

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.

1D Common Config: you can change the security level here.

- 1) The higher the security level, the lower the error rate of the 1D 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.



Below are remarks for Code 39:

1. Min./Max. Length: Sets the acceptable shortest and longest lengths for scanned barcodes.
2. Enable Check Digit Verification: Validates the barcode's mathematical check digit and rejects it if incorrect.
3. Transmit Check Digit: Includes the check digit in the transmitted data output.
4. Transmit Start/Stop Character: Includes the start/stop character in the output data.
5. Full ASCII: Enables Code 39 to encode the full 128-character ASCII set (using two-character combinations).
6. Enable Code 32 Prefix: Allow Code 32 with prefix to the beginning of the transmitted data.
7. Convert Code 39 to Code 32: Automatically converts a scanned Code 39 barcode into the Code 32 format before outputting the data.
8. Code32 Transmit Check Digit: Includes the check digit in the transmitted data output.
9. Code32 Transmit Start/Stop Character: Includes the start and stop characters in the transmitted data output.

11:32 AM

< Code 39(default)

Min. Length
1

Max. Length
48

- ☐ Enable Check Digit Verification
- ☐ Transmit Check Digit
- ☐ Transmit Start/Stop Character
- ☐ Full ASCII
- ☐ Enable Code 32 Prefix
- ☐ Convert Code 39 to Code 32
- ☐ Code32 Transmit Check Digit
- ☐ Code32 Transmit Start/Stop Character

Cancel OK

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

11:46 AM

< Symbologies(default)

1D code 2D code Advanced

☒ selected partially

Common 2D barcodes

- ☒ Data Matrix [DETAIL](#)
- ☒ MICRO QR [DETAIL](#)
- ☒ PDF417 [DETAIL](#)
- ☒ QR [DETAIL](#)

Other 2D barcodes

- ☐ AZTEC [DETAIL](#)
- ☐ Composite [DETAIL](#)

Below are remarks for QR code:

1. Min./Max. Length: Sets the acceptable shortest and longest lengths for scanned barcodes.
2. Read Twin Code: Sets the expected number of barcodes to read simultaneously from a single image.
3. Require Fixed Number of Barcodes on an Image: If checked, the scan will only succeed if the exact number of barcodes set above is detected.
4. Video Reverse: Sets the polarity of the code. Choosing "Read Both" enables reading both normal (dark on light) and inverted (light on dark) QR codes.
5. Close ECI: Disables Extended Channel Interpretation (ECI) protocol output, which is used for character set encoding.
6. output WebSite: Enables the direct output of decoded URL links.
7. Model1: Enables decoding of the older QR Code Model 1 standard (modern QR codes are typically Model 2).
8. Mirror: Allows the scanner to read mirrored (left-right reversed) versions of the code.
9. Output hidden content: Enables the decoding and output of hidden or structured appended data within the barcode.

The screenshot shows a mobile application interface for QR code settings. The title bar is blue with a back arrow and the text "QR(default)". The settings are as follows:

- Min. Length: 1
- Max. Length: 7089
- Read Twin Code: 1
- ☒ Require Fixed Number of Barcodes on an Image
- Video Reverse: Read Both
- ☒ Close ECI
- ☒ output WebSite
- ☐ Model1
- ☐ Mirror
- ☒ Output hidden content

At the bottom, there are two buttons: "Cancel" and "OK".

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

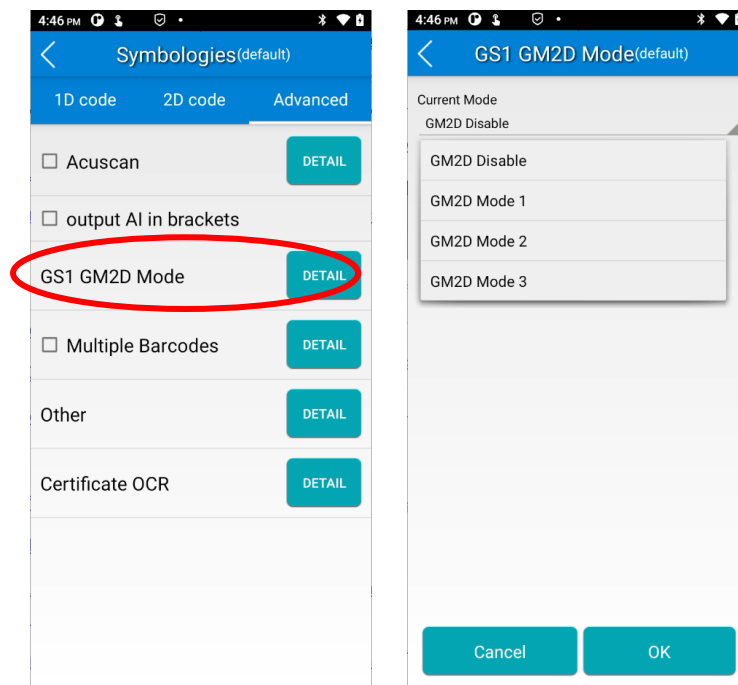
1. **Acuscan:** When selected, the terminal only decodes the barcode aimed squarely by the aiming pattern. It is advised to select it to ensure that only the desired barcodes are read if multiple barcodes are placed closely together.
2. **output AI in brackets:** When enabled, GS1 Application Identifiers (AIs) are wrapped in brackets for system parsing; when disabled, data is output as a raw continuous string.
3. **GS1 GM2D Mode:** Tap DETAIL to disable this mode or choose a different mode. This setting is for when both GS1(1D) and GM2D(2D) barcodes appear.

GM2D Disable: Disable GM2D recognition.

GM2D Mode 1: Transmit GTIN Only (Legacy Compatibility) - The device will read only one of the two barcodes and output GTIN only.

GM2D Mode 2: Prioritize 2D Barcode (Wait for the better data) - The device prioritizes the 2D barcode for richer data.

GM2D Mode 3: Linked Mode (Corroboration via Set ID prefix) - The device will read all barcodes prefixed with a random 8-digit label identifier.

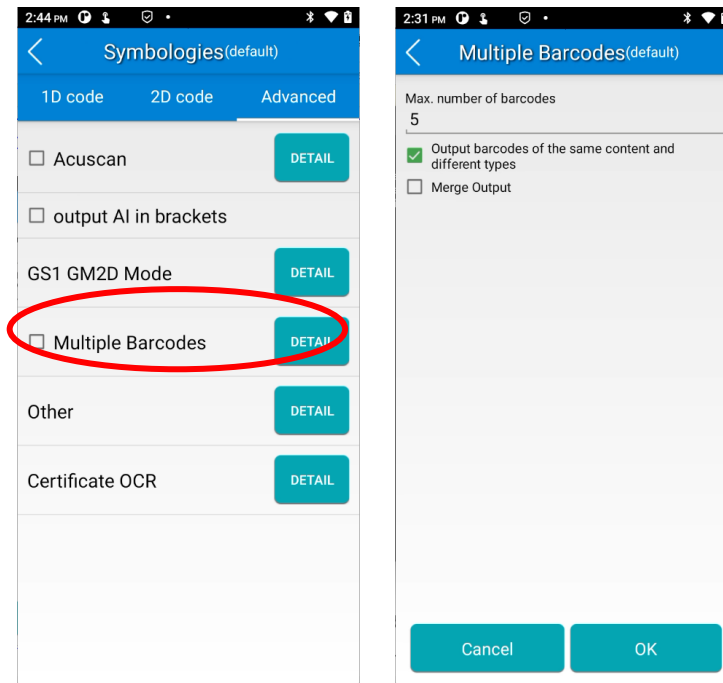


4. **Multiple Barcodes:** Tap DETAIL to access the following settings.

Max. number of barcodes: Maximum barcodes to decode per scan.

Output barcodes of the same content and different types: Enables output of identical data from different symbology types. Disable this to filter out duplicates.

Merge Output: Add multiple decoded results into a single output string. Disable to output each barcode independently. Disable to output each barcode independently.



5. **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: Adjusts camera sensor sensitivity. Set to High for low-light conditions, or Low for bright/reflective surfaces. Middle is the default balanced setting.

Illum Mode: Controls the built-in illumination (LED lights).

Laser: Enables or disables the red laser.

ROI: Defines the camera's metering area for adjusting exposure. Set to full image to evaluate the entire scene's brightness.

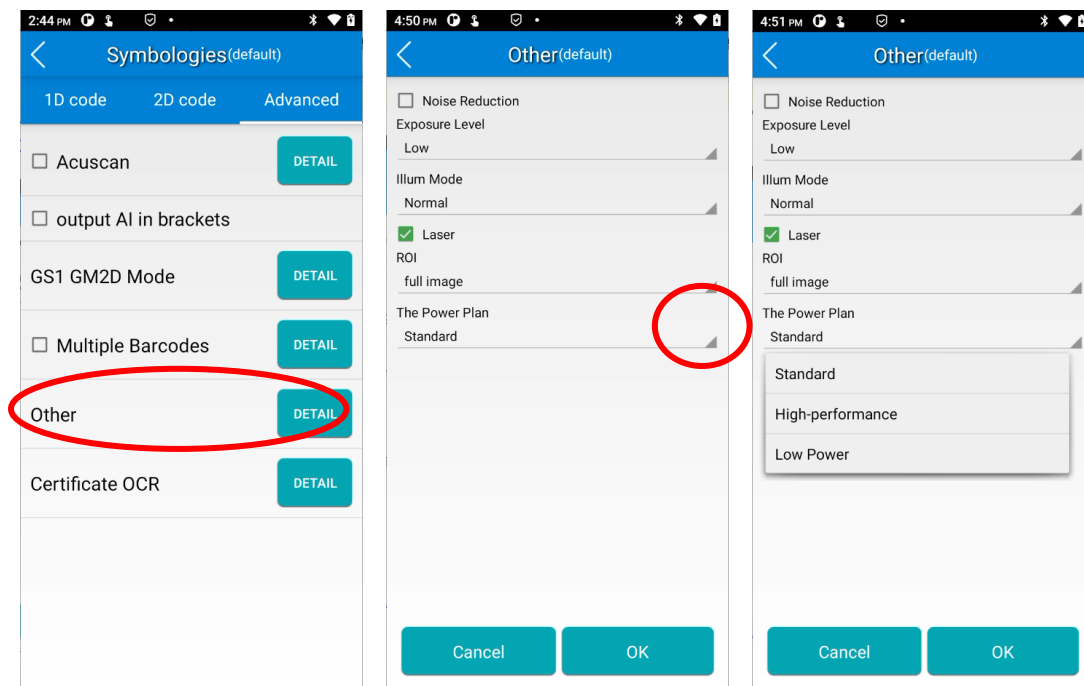
Changing to a smaller area is useful when the barcode has extreme contrast against a very bright or dark background.

Power plan: Three options are provided.

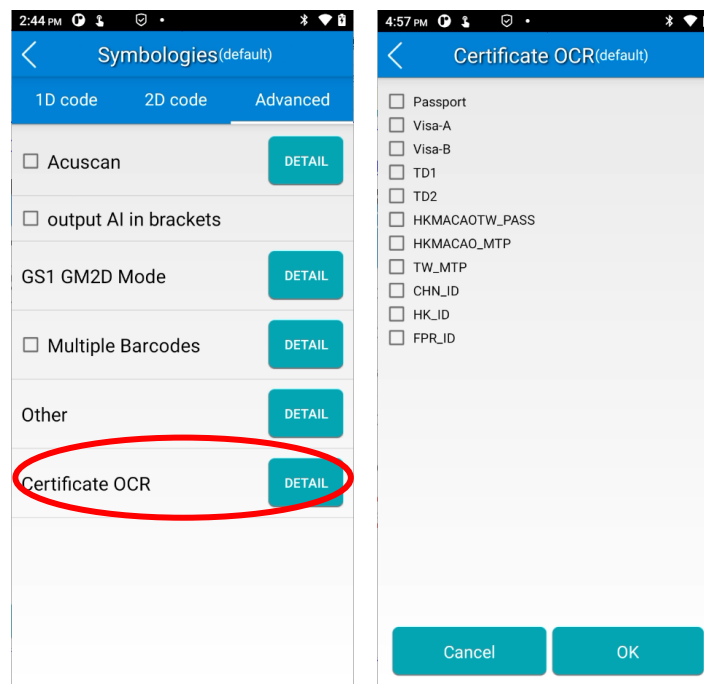
Low Power: The terminal's built-in scanner turns off automatically after scanning. In this mode, the built-in scanner needs to be restarted, which decreases the recognition speed.

High-performance: The terminal's built-in scanner turns off automatically after 15 seconds of inactivity. In this mode, the built-in scanner does not need to be restarted within 15 seconds, which increased the recognition speed.

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

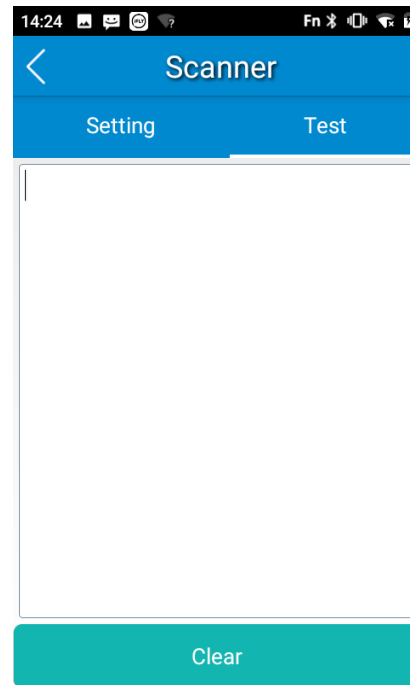
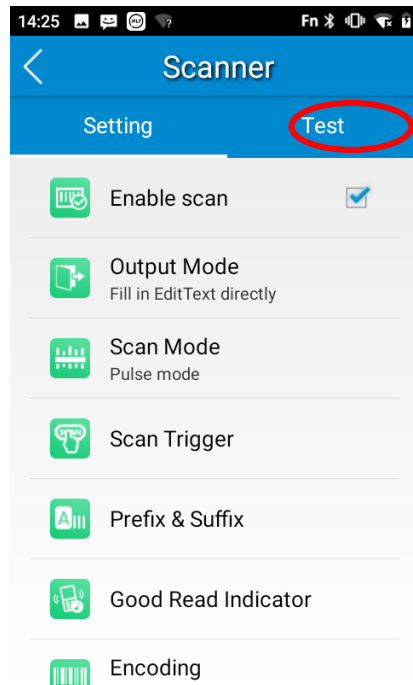


6. **Certificate OCR:** Select the certificates you want to recognize, including passports, visas, ID cards, etc.



Scan Test

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



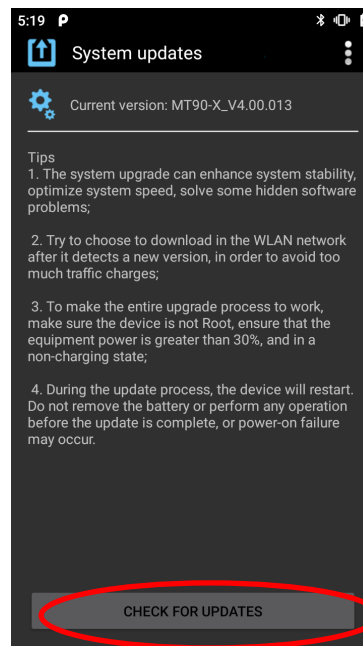
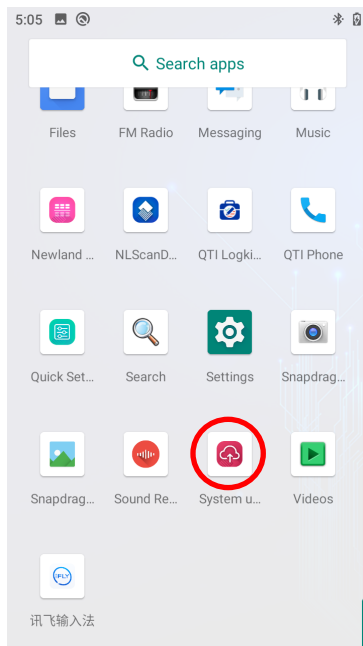
Chapter 10 System Update

Introduction

This chapter introduces two methods to update the system software of the terminal: Online update and local update. Online update downloads update packages directly from Newland server via the internet. It requires a stable network connection during the entire process. Local update uses a pre-downloaded update file to apply changes, without needing an active internet connection.

Online Update

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



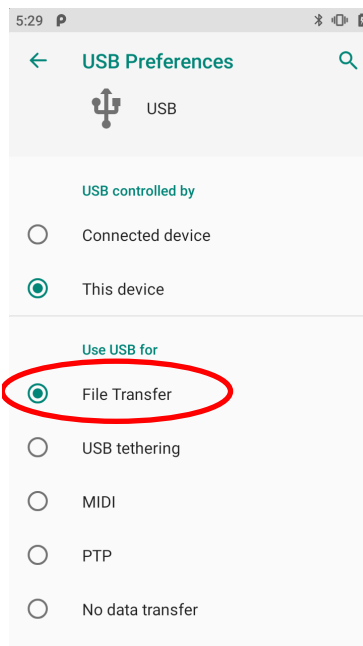
Local Update

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.

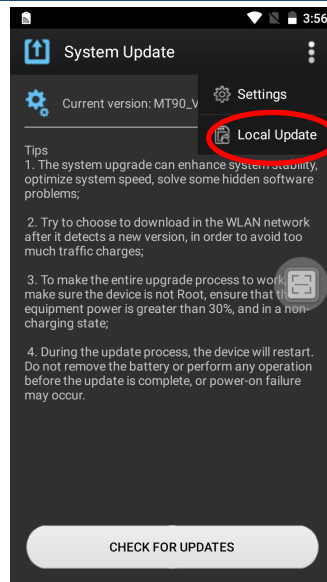


2. Copy the update zip file to the terminal drive.

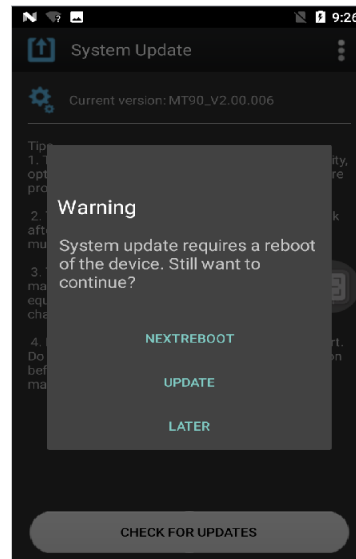
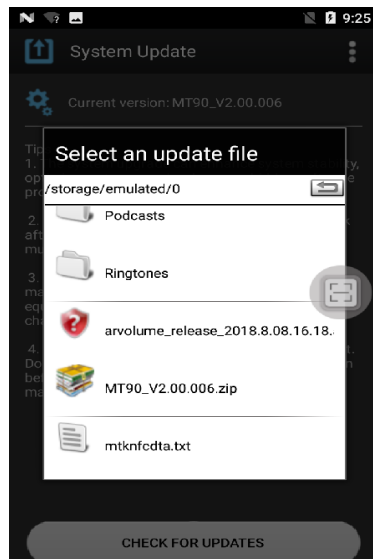


3. Tap  to access the System Update screen.

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

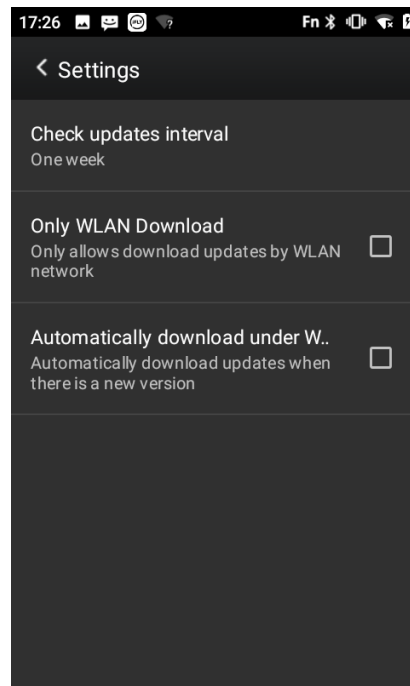
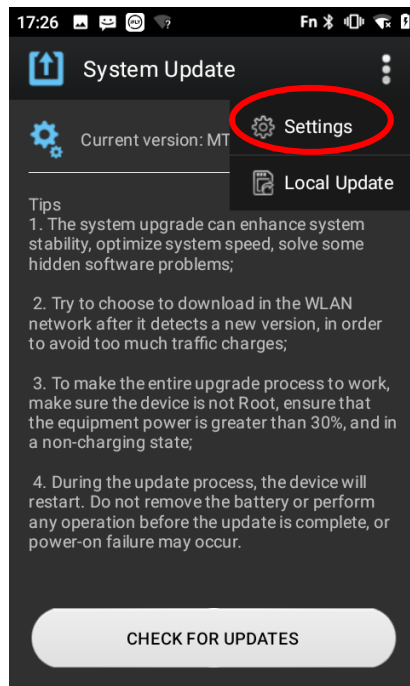


5. Select the update zip file. Then select “NEXTREBOOT” or “UPDATE”. By default, please select “UPDATE”.



Settings

- ✧ Tap  in the top right corner of the System Update screen then select “Settings”. Then you can set “Check updates interval”. This parameter sets the time interval between each check update, there are “Tree days”, “One week”, “Two weeks” and “One month” options available.



Chapter 11 NLScan Demo

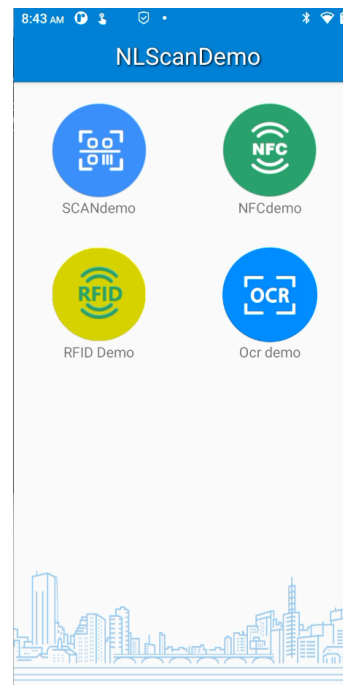
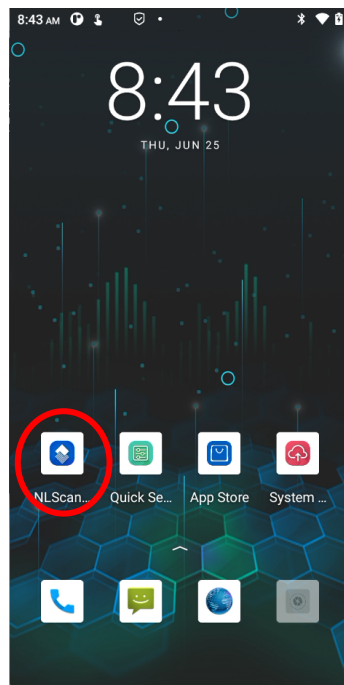
Introduction

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”, “NFC demo”, “RFID Demo” or “Ocr demo” as needed.



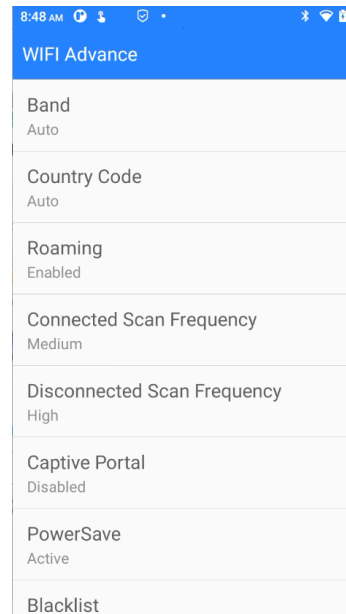
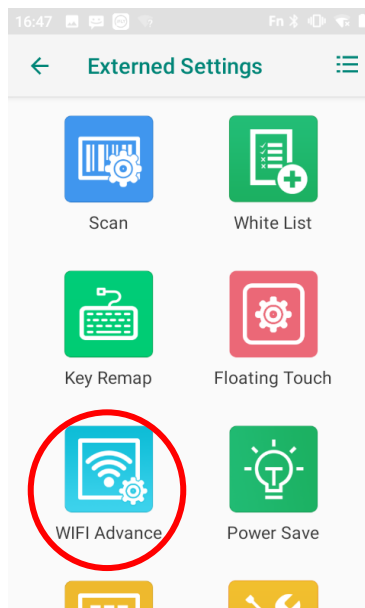
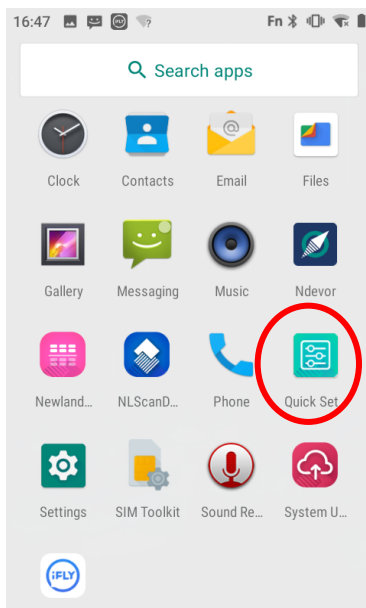
Chapter 12 WIFI Advance

Introduction

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

Launch the WIFI Advance

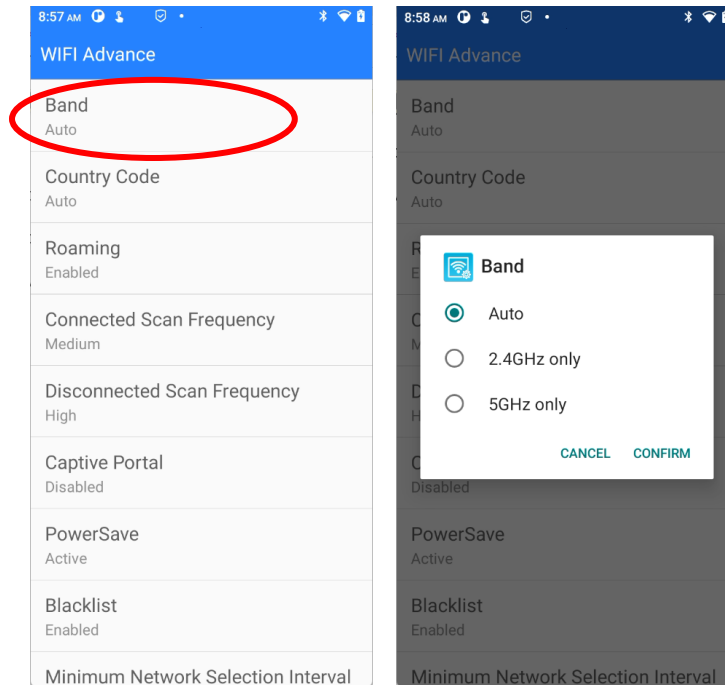
Tap "Quick Setting"  on the Home screen -> "WIFI Advance"  , then you can set WLAN Band, Country Code, Roaming, Connected Scan Frequency, and other parameters as needed.



Band

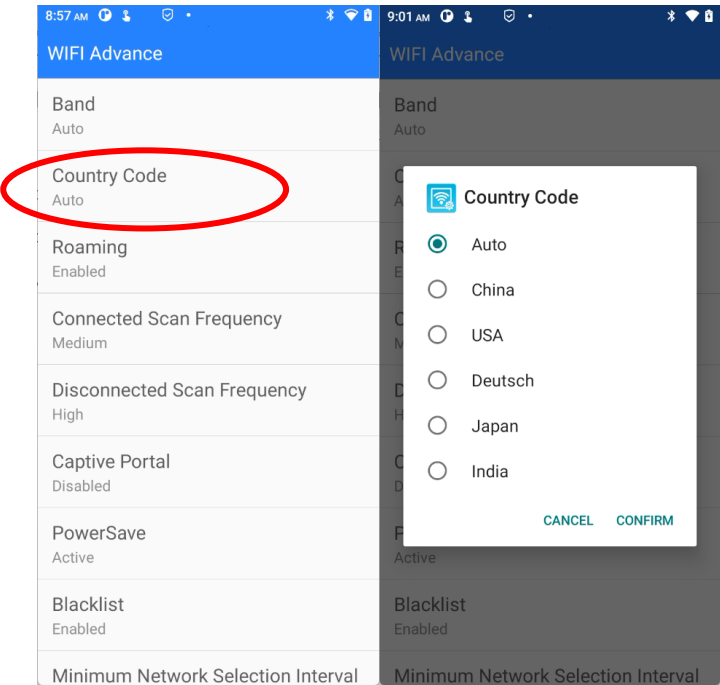
The terminal provides three WIFI Band options: Auto, 2.4GHz only, and 5 GHz only

- ✧ 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.



Country Code

The default Country Code is: Auto, and you can choose Country Code as needed.



Roaming

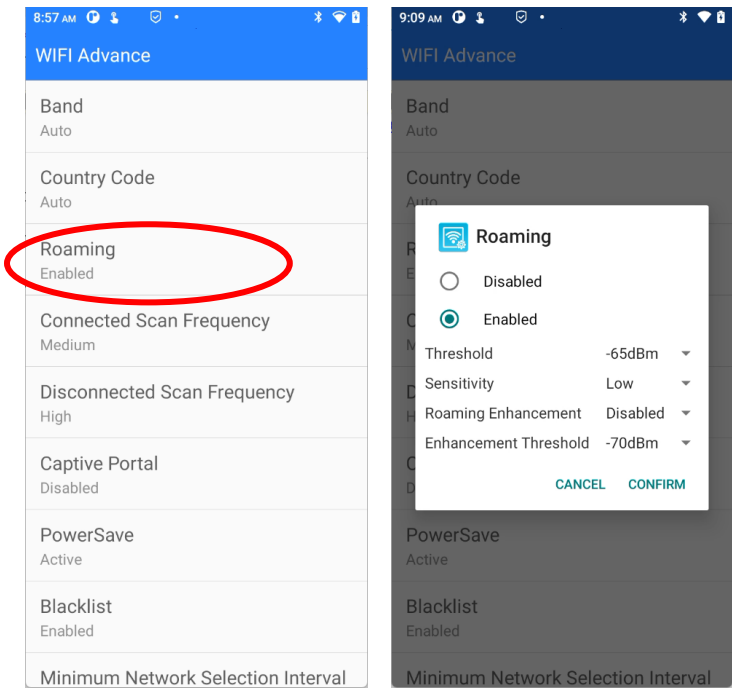
Roaming: When the currently connected network is in poor condition, it will automatically switch to other available networks. Enable the Roaming by default.

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.

Roaming Enhancement: Disabled by default. When enabled, if the signal of the currently connected AP falls below the roaming threshold, the device will more readily roam to an AP with better signal.

Enhancement Threshold: The signal level that triggers fast roaming. **Note:** Only active when "Roaming Enhancement" is enabled.



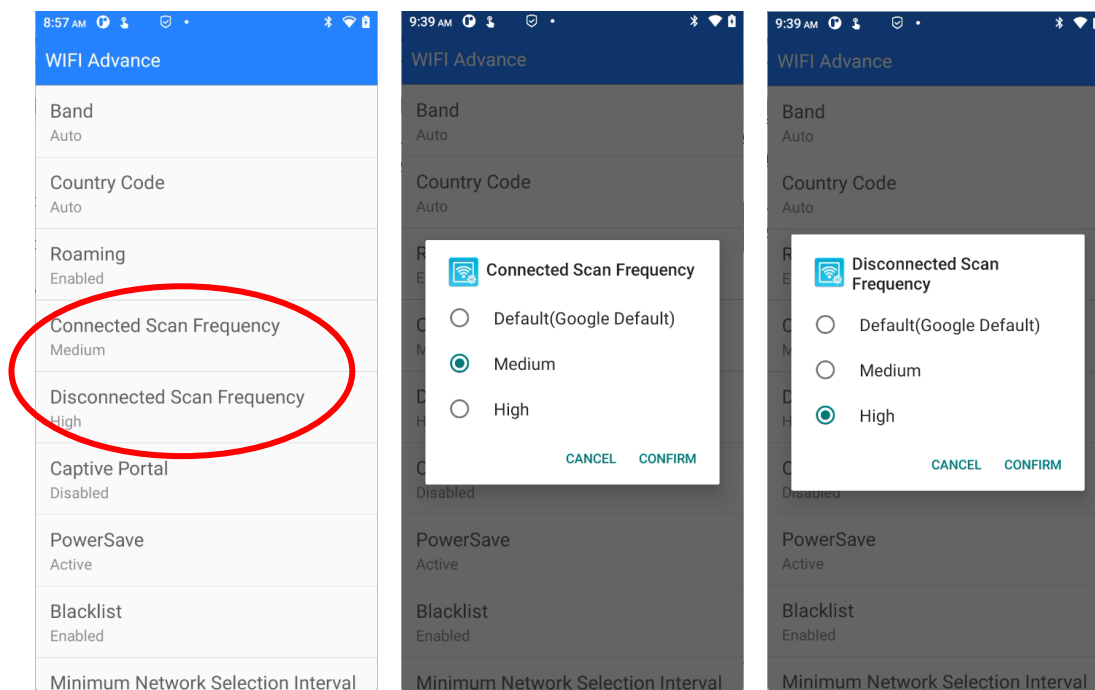
Connected/Disconnected Scan Frequency

This setting controls Wi-Fi scan frequency when the device is connected/disconnected to Wi-Fi.

Default (Google Default): Uses the standard Android system scan interval.

Medium: Increases the scan frequency to improve roaming responsiveness.

High: Scans at the highest frequency to provide the fastest Wi-Fi handover performance when moving around, but will consume more battery power.



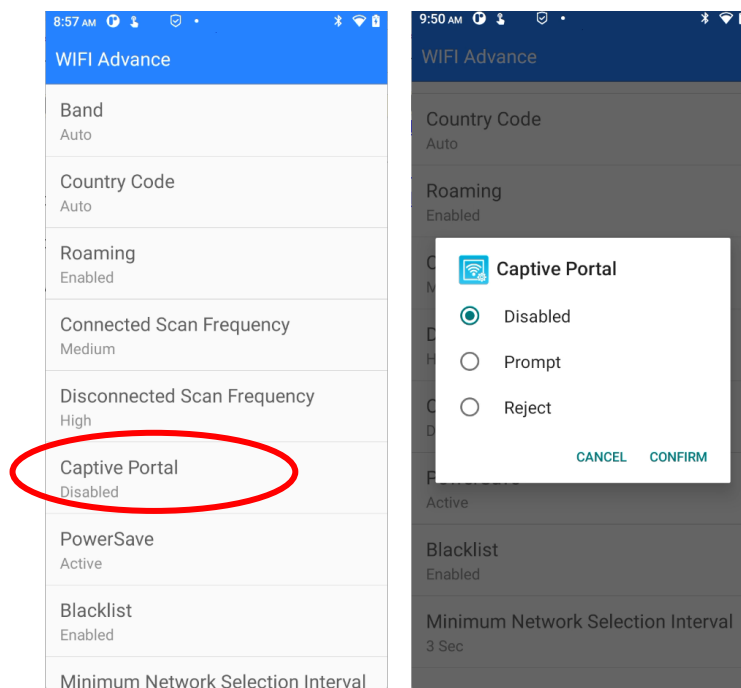
Captive Portal

This setting controls how the device handles public Wi-Fi networks that require you to sign in through a web page before accessing the internet.

Disabled: Disables captive portal detection. The device will not actively detect or trigger a login page for such networks.

Prompt: When connected to a network requiring a login, the system will prompt you with a notification or pop-up window to sign in. (This is typically the standard behavior).

Reject: The device will detect the login-required network but will not show the sign-in prompt. The Wi-Fi will stay connected, but internet access will be blocked until you manually handle it.

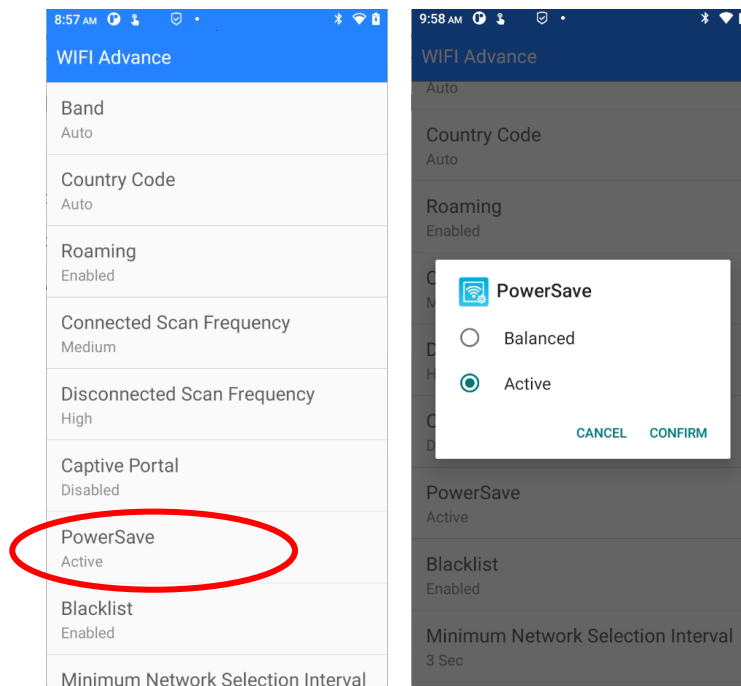


PowerSave

This setting controls the device's Wi-Fi power consumption strategy to extend battery life.

Balanced: Maintains a compromise between power saving and network performance. It slightly reduces Wi-Fi activity to save power while keeping latency low.

Active: Prioritizes network performance. It keeps the Wi-Fi module continuously active to provide the fastest response times and lowest latency, but will consume more battery power.



Blacklist

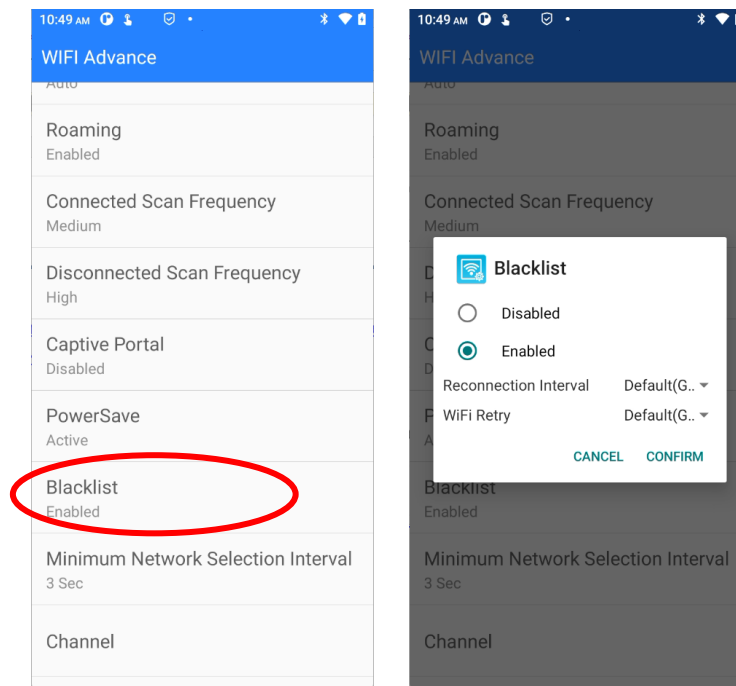
This setting controls how the device manages Wi-Fi networks that fail or poor to connect.

Disabled: The device will not block failed networks and will keep retrying.

Enabled: The device will temporarily blacklist a Wi-Fi network after a failed connection attempt to avoid continuous retries (saving battery and preventing connection loops).

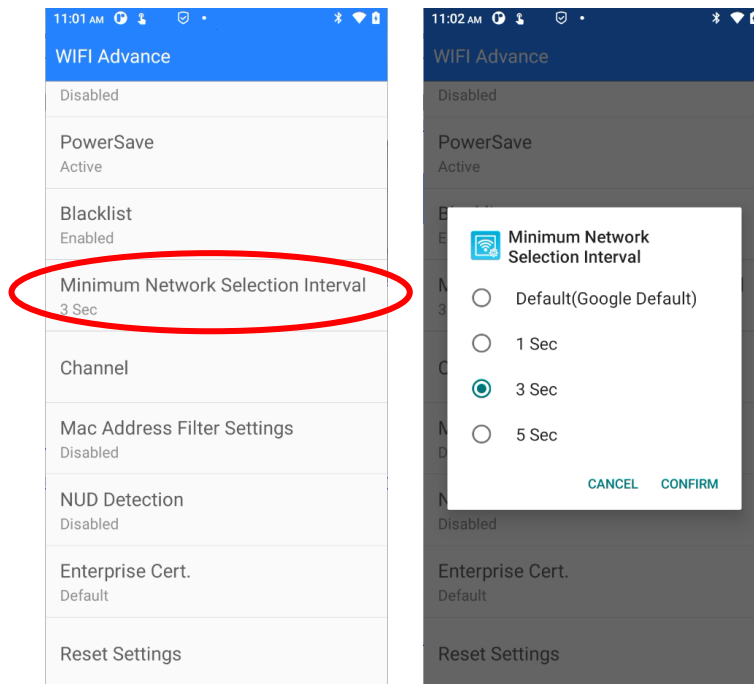
Reconnection Interval: The waiting time required before the device attempts to reconnect to a Wi-Fi network. The longer the interval, the less frequently the device will retry.

WiFi Retry: The number of connections attempts the device will make to a Wi-Fi network before considering it a failure and placing it on the blacklist.



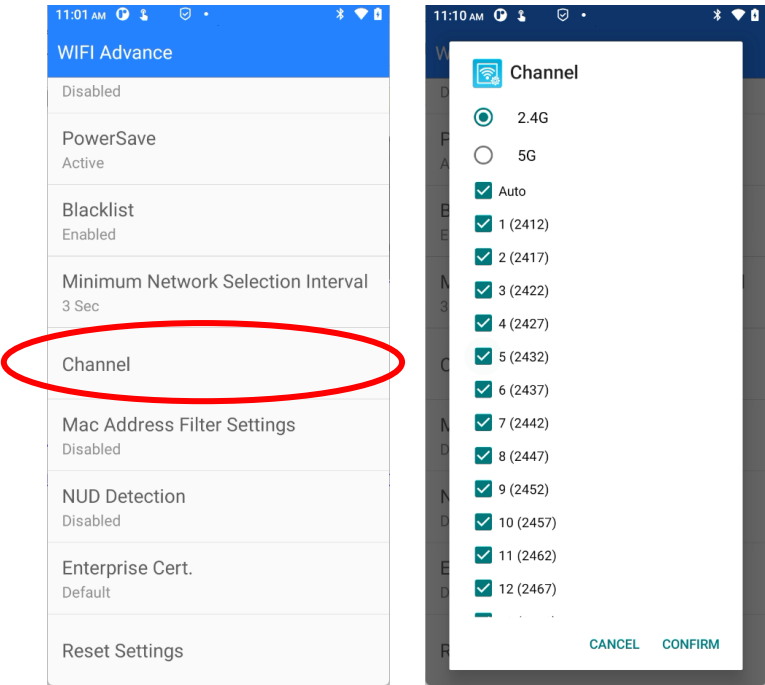
Minimum Network Selection Interval

This setting defines the minimum waiting time between Wi-Fi scans for finding and connecting to a better available network.



Channel

Channel Selection: Select **Auto** to allow the device to automatically choose the channel with the least interference for the best performance. You can tap 2.4G or 5G to find specific channel easily. You can also manually check or uncheck specific channels for adjusting or advanced troubleshooting if needed.



Mac Address Filter Settings

This setting allows you to control network access for specific AP devices based on their unique MAC addresses.

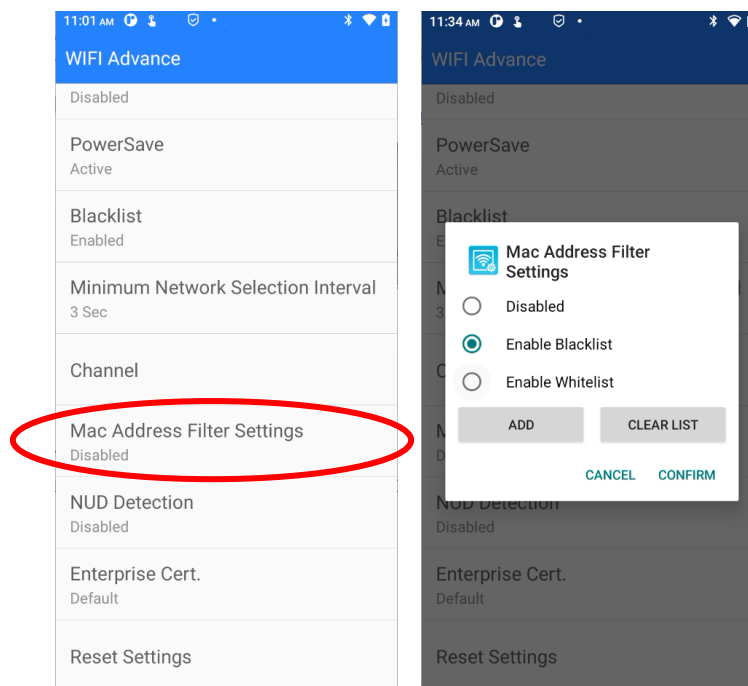
Disabled: Disables MAC address filtering. All AP devices are allowed by default.

Enable Blacklist: Blocks specific AP devices on the list. All other AP devices are allowed to connect to the network.

Enable Whitelist: Allows access only to the specific AP devices on the list. All other AP devices attempting to connect will be blocked.

ADD: Manually add a AP device's MAC address to the current blacklist or whitelist.

CLEAR LIST: Remove all existing entries from the current list at once.

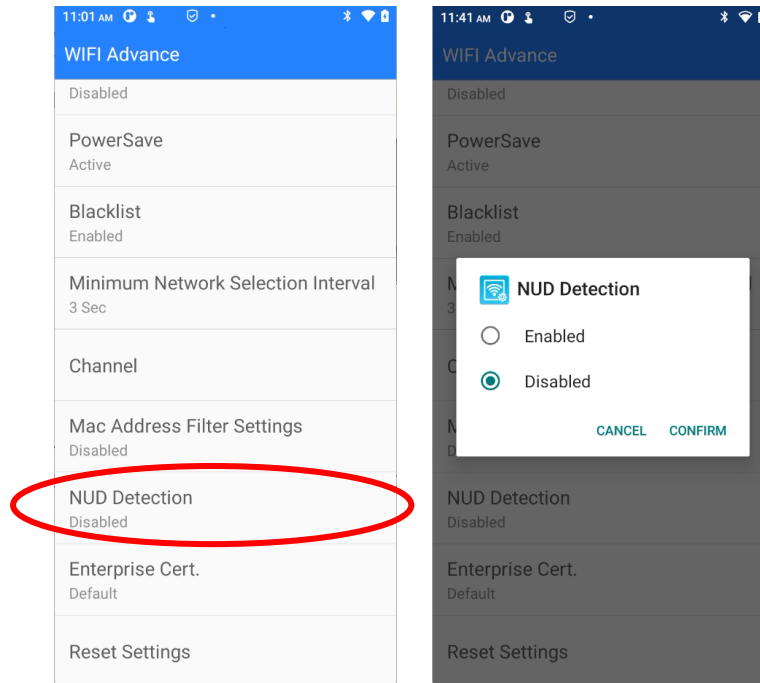


HUD Detection

This setting controls whether the device actively checks if the connected Wi-Fi router is still reachable over the network.

Enabled: Actively monitors gateway liveliness. If the router becomes unresponsive, the device will quickly trigger a Wi-Fi recovery or reconnection.

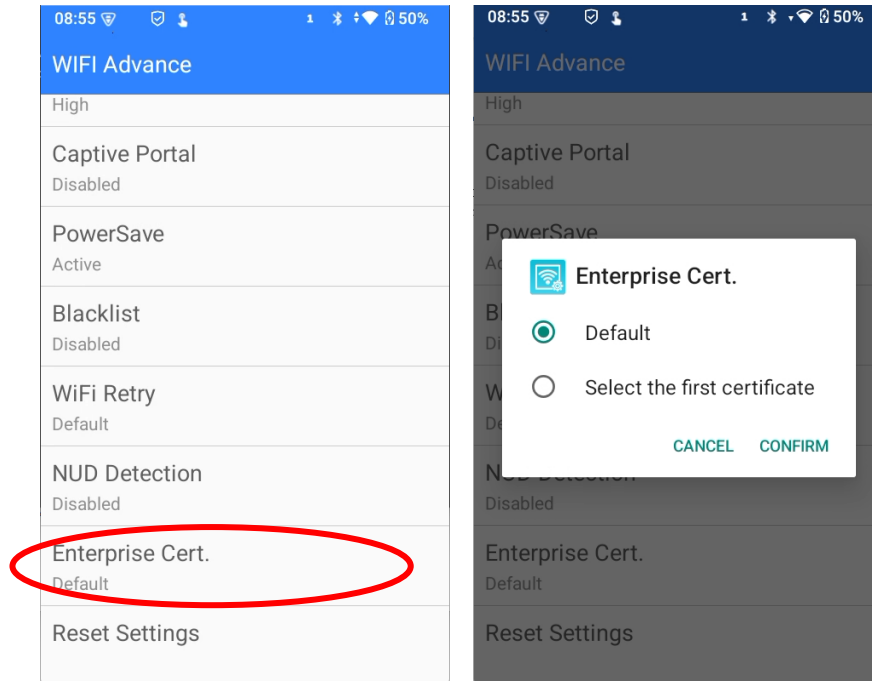
Disabled: Disables active reachability checks. The device may still show as "connected" even if the router has dropped the internet connection, until the physical signal is lost.



Enterprise Cert.

Default: Use the system default behavior.

Select the first certificate: When multiple CA certificates are configured, the first CA certificate in the list is selected as the CA certificate for the current enterprise Wi-Fi.



Reset Settings

Reset all WIFI Advance settings to the default.

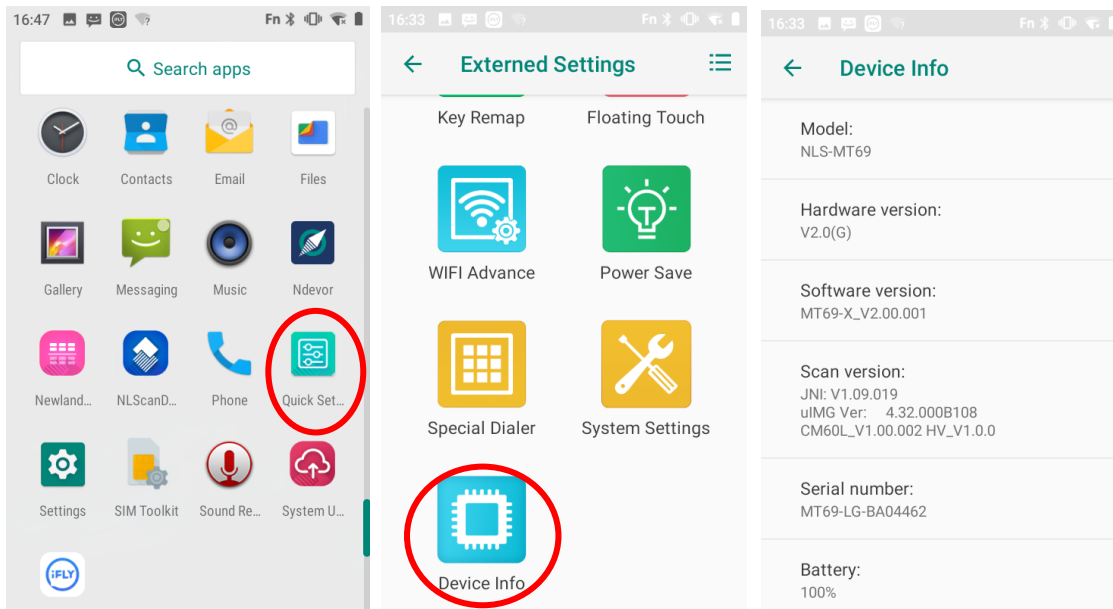
Chapter 13 Device Information

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.



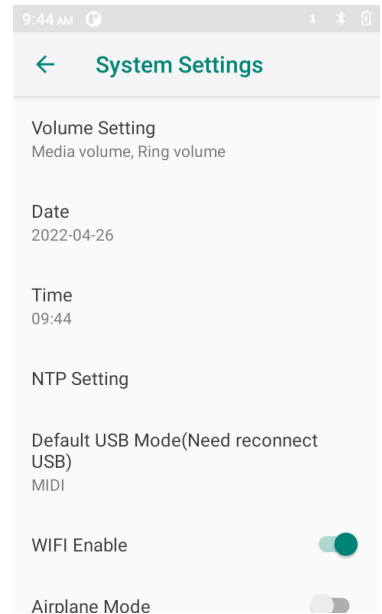
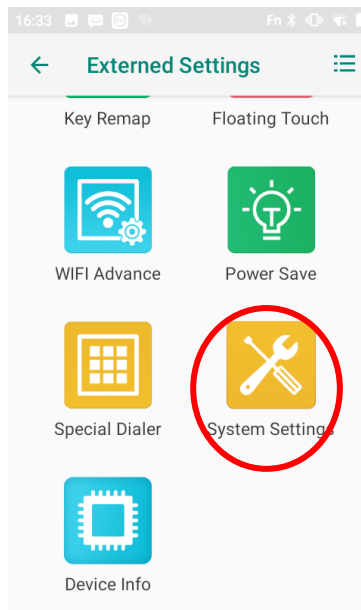
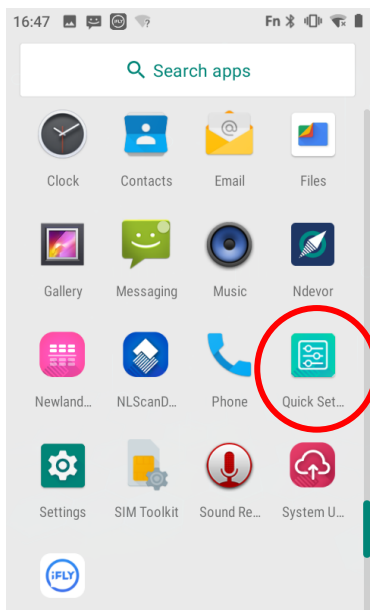
Chapter 14 System Settings

Introduction

The System Setting app is used to configure some of the basic system settings, such as Volume, Date, Time, NTP setting, Default USB Mode, WIFI Enable, Airplane Mode, etc. It also provides a quick and simple access to some useful settings, including some that the native system does not support.

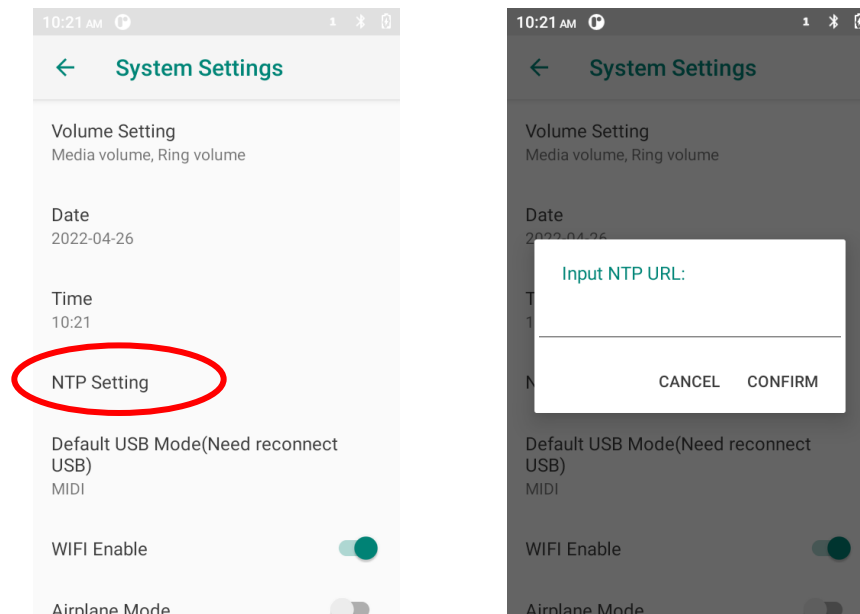
Logging in to System Settings

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



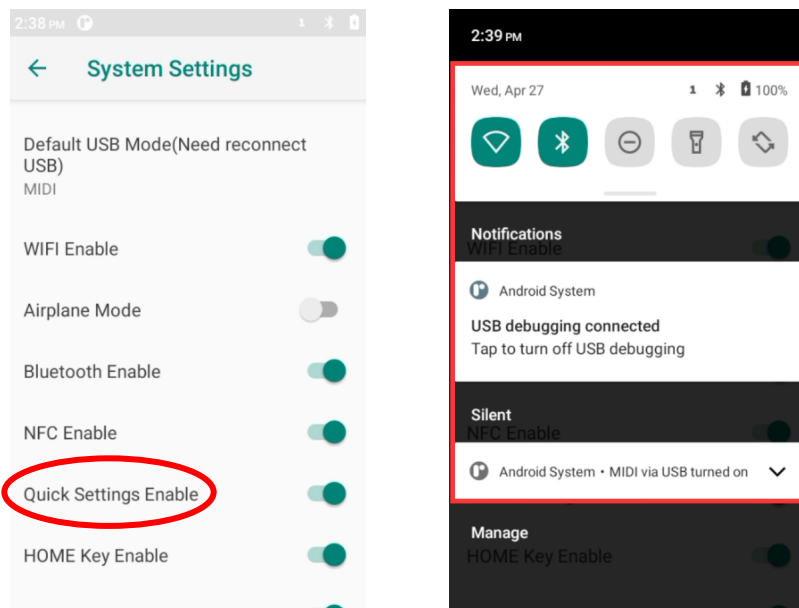
NTP Setting

Network Time Protocol (NTP) is a protocol that helps the computer's clock times to be synchronized in a network. In case your network cannot access the public internet, use this setting to connect to the internal network's NTP server. It is empty by default. You can input the value by scanning the barcode.



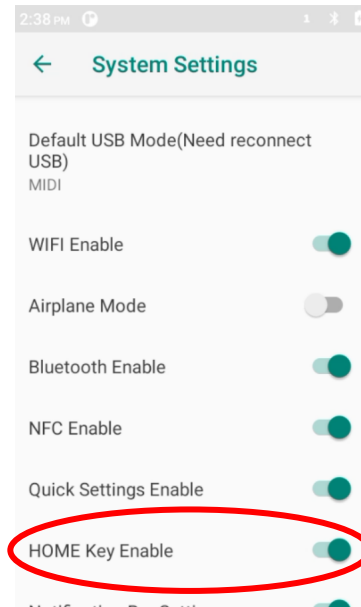
Quick Setting Enable

Quick Setting Enable: Tap to disable or enable the status bar pull-down (highlight in the red box).



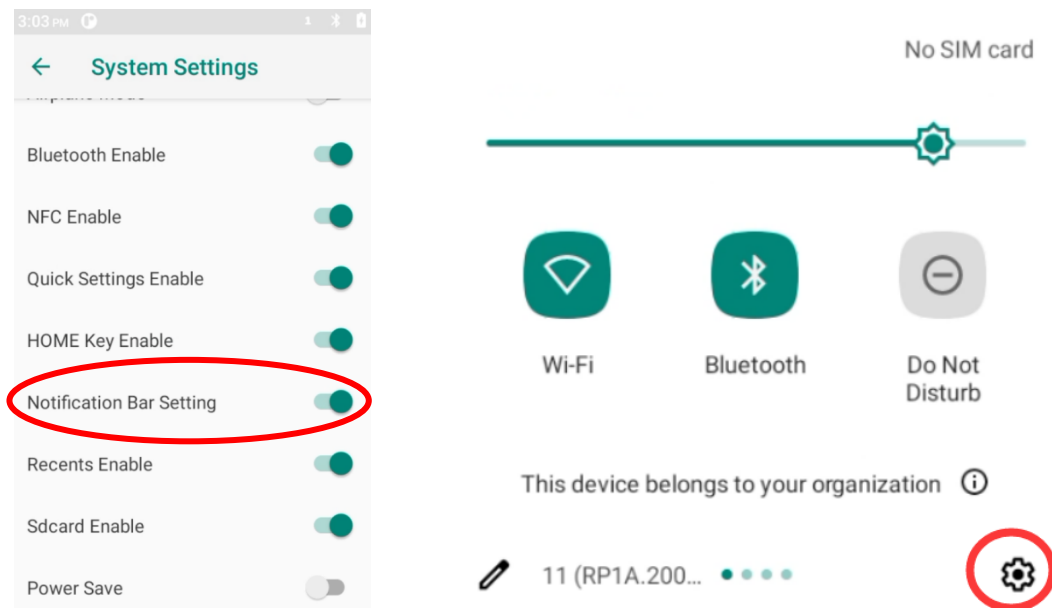
Home Key Enable

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



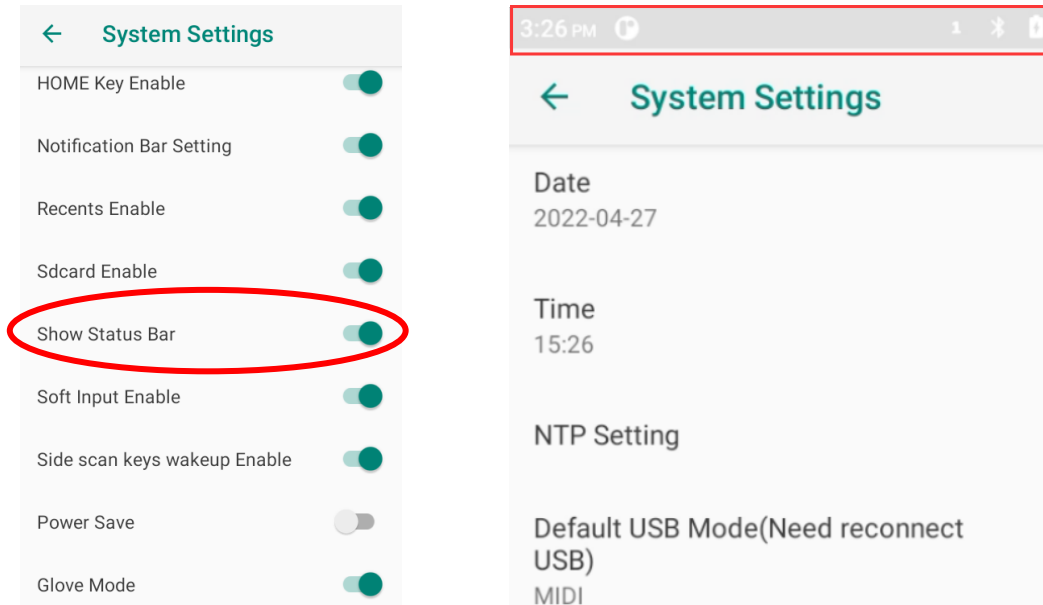
Notification Bar Setting

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



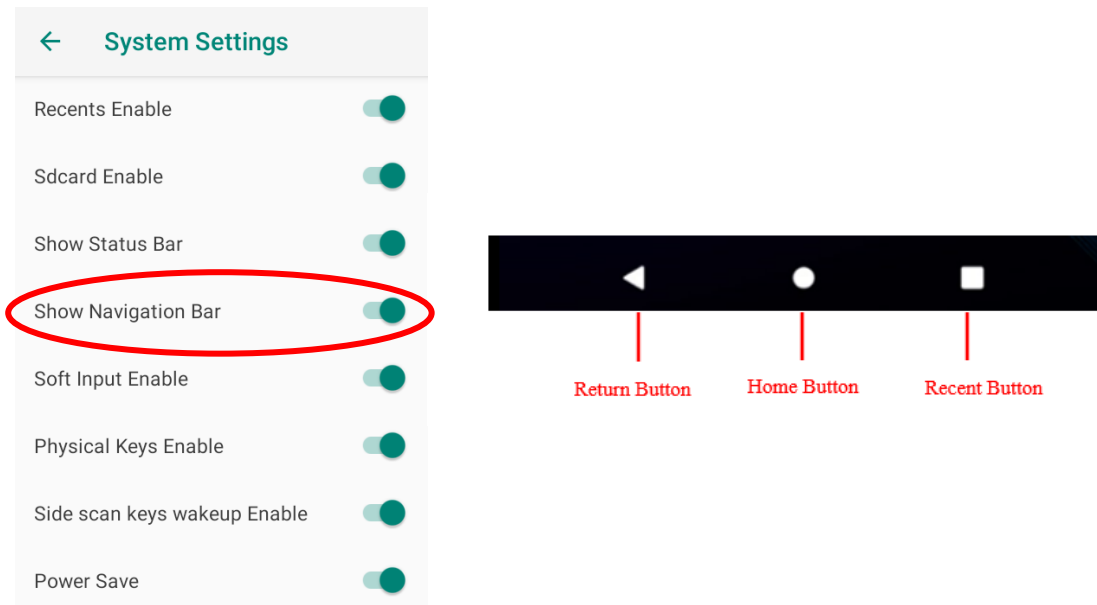
Show Status Bar

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



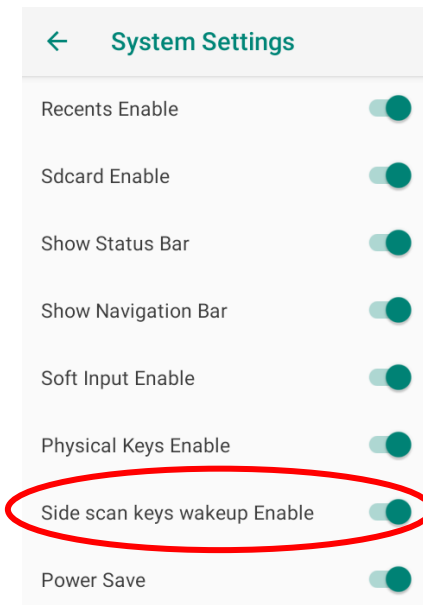
Show Navigation Bar

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

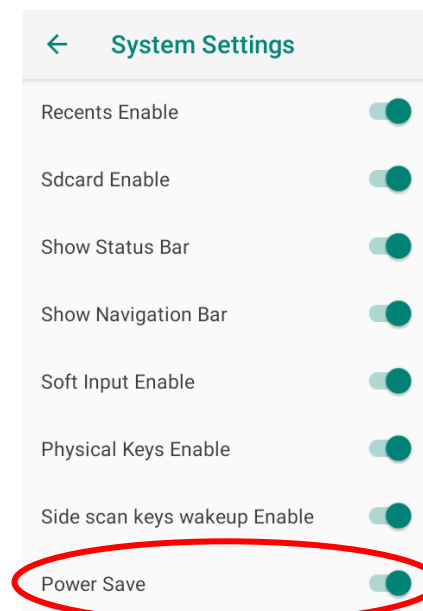
Tap to enable the “Side scan keys wakeup” function: When the screen is off, briefly press the side scan key can wake it up.



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.



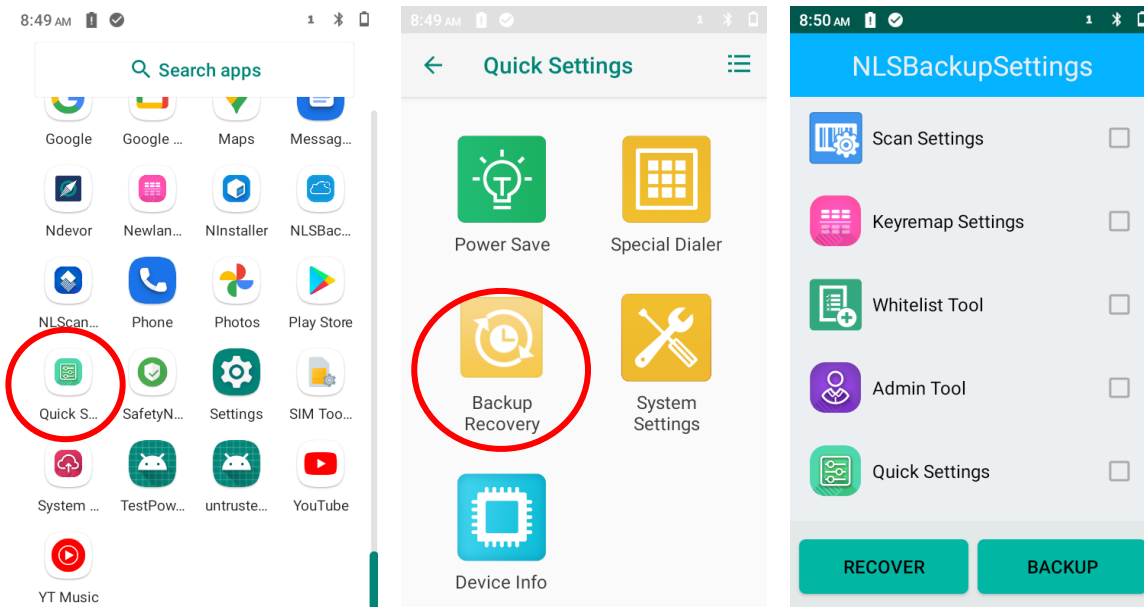
Chapter 15 Backup Recovery

Introduction

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

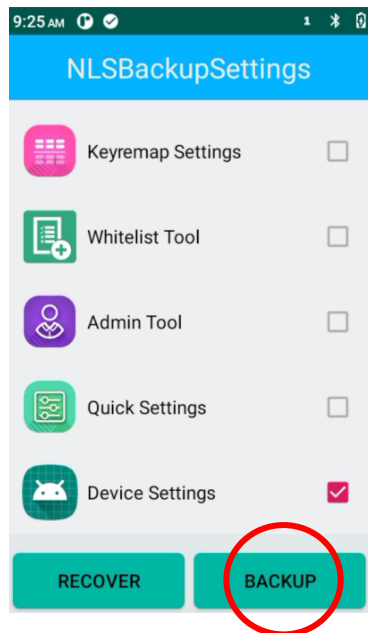
Logging in to Backup Recovery

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



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

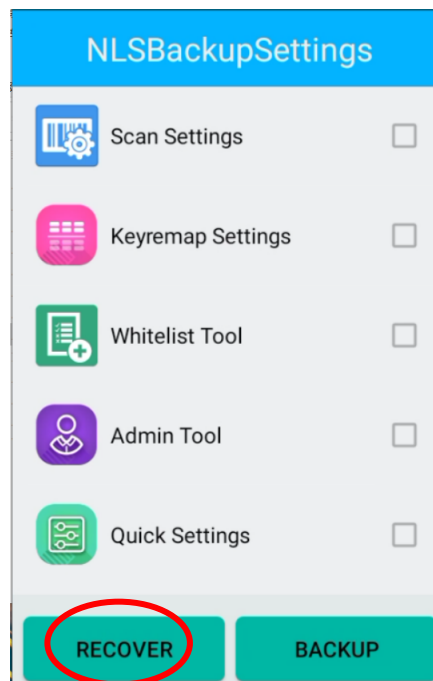
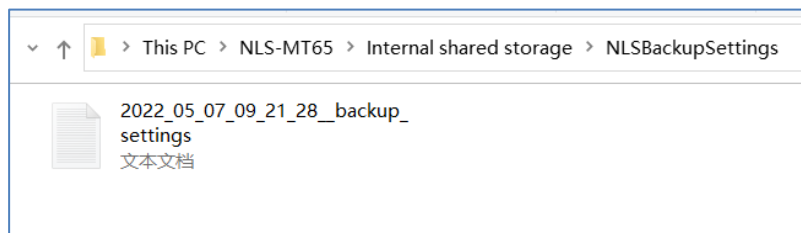
Use one of the following methods to recover the setting of apps:

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.



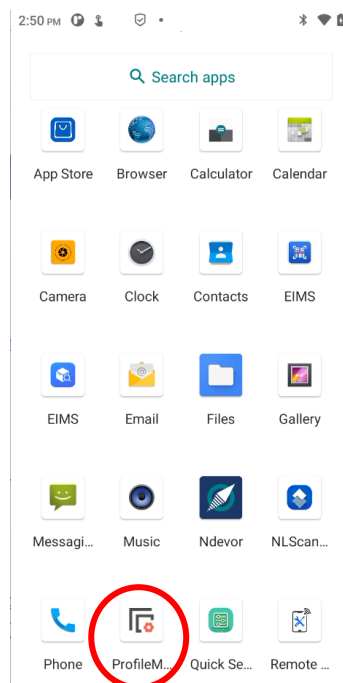
Chapter 16 Profile Manager

Introduction

Profile Manager is an app for adjusting different functions (e.g., the Scanner) within selected apps or activities.

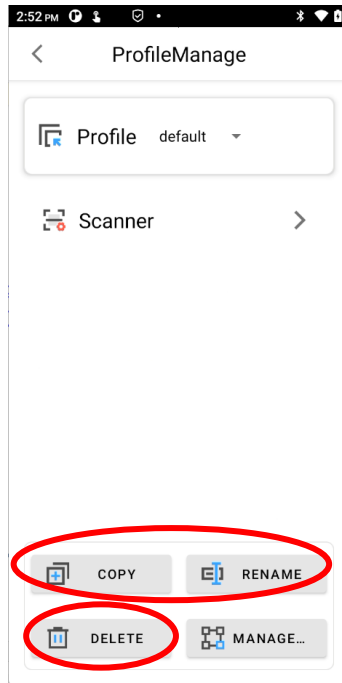
Launch the Profile Manager

Swipe up from the home screen bottom to view all apps -> tap Profile Manager



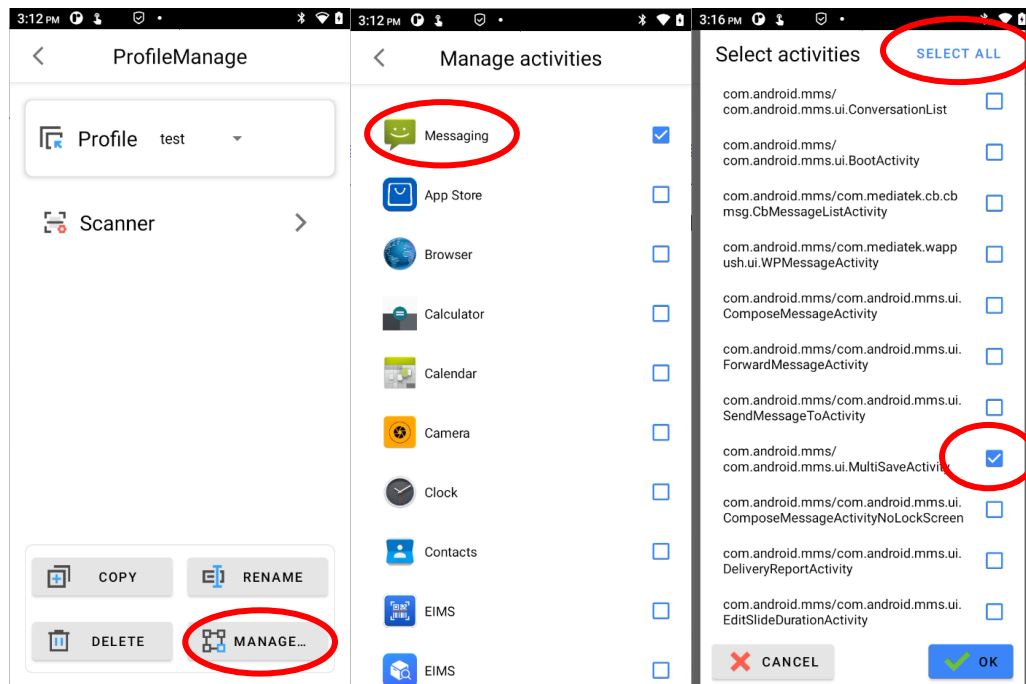
Copy, Rename and Delete the Profile

The 'COPY', 'RENAME', and 'DELETE' buttons appear at the bottom, allowing you to manage the current profile. (Note: The default profile cannot be renamed or deleted.)



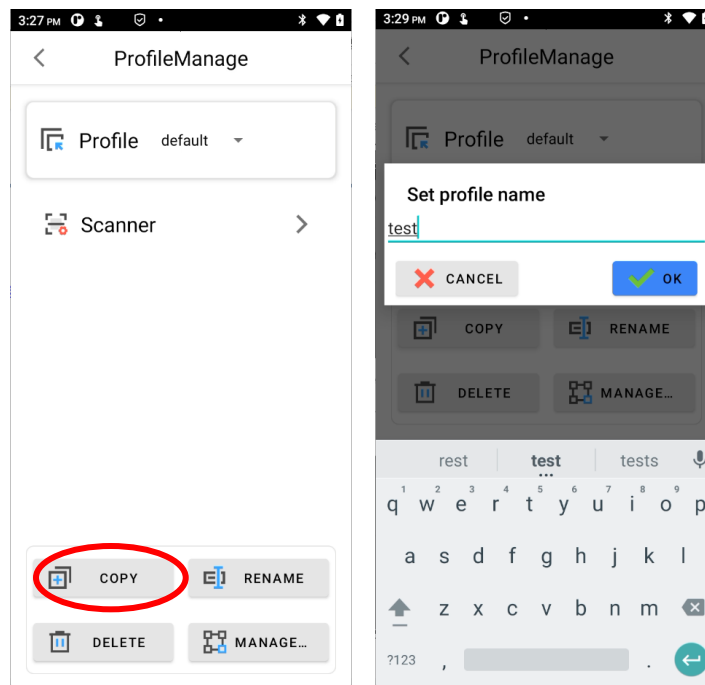
Manage Activities

After tapping 'MANAGE ACTIVITIES', you will see a list of apps. Tap an app's name to select the specific activities you want to apply. To apply to all activities in that app, tap "SELECT ALL".

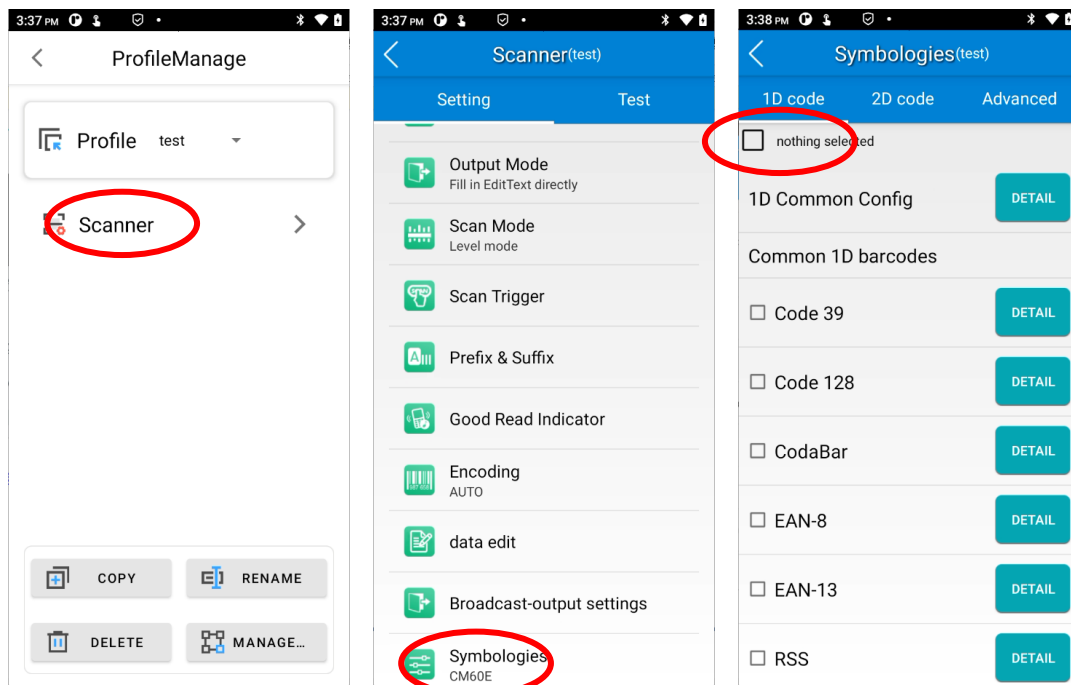


How to use

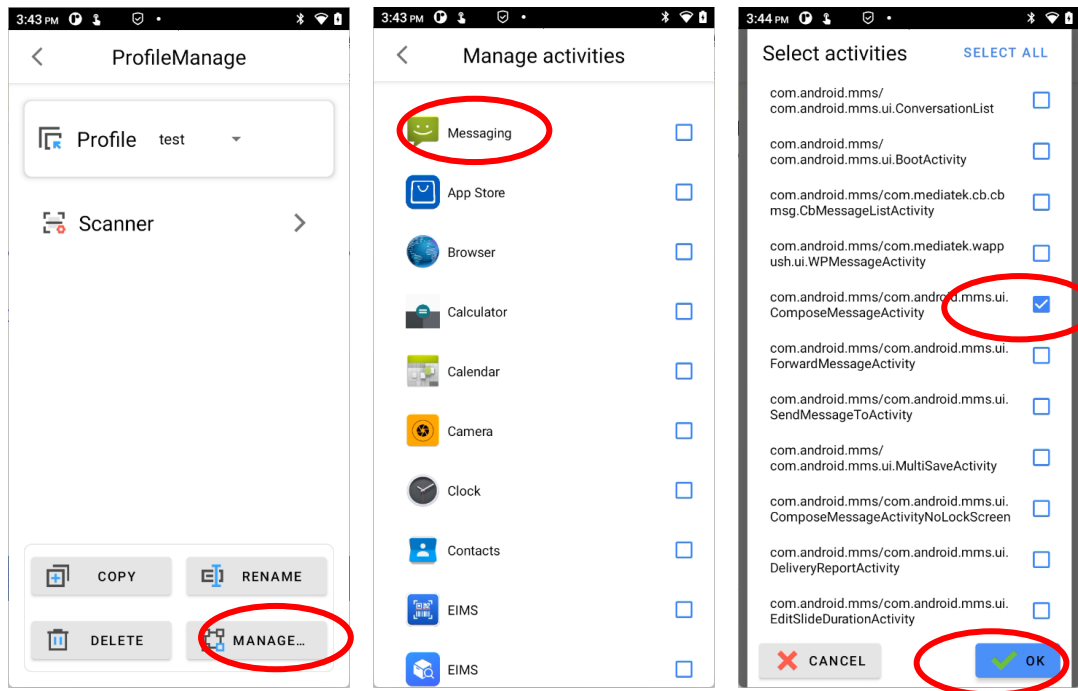
Copy the default profile and name the new profile.



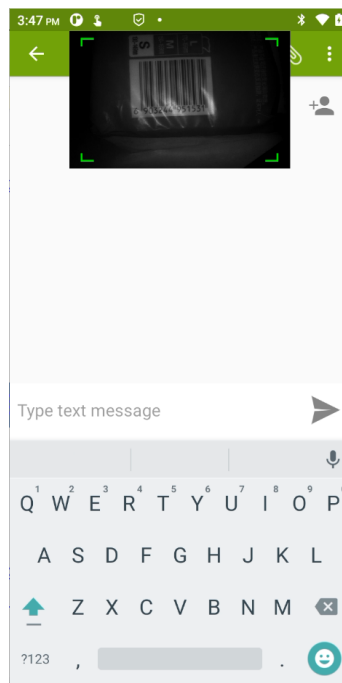
Config Scanner setting. In this example, we disable 1D code decode scan.



Apply to an activity. In this example, we choose ComposeMessageActivity.



Now 1D scanning is banned in Message's chat box.



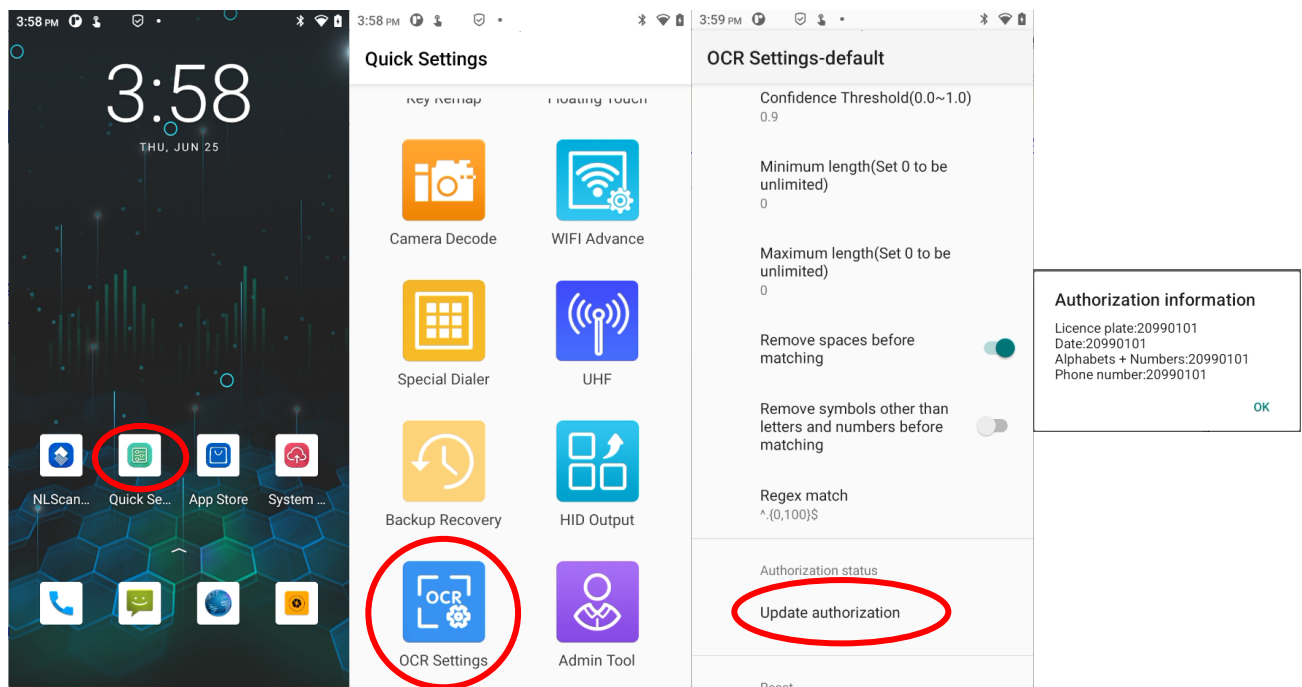
Chapter 17 OCR

Introduction

This chapter introduces instructions for setting up OCR (Optical Character Recognition). The OCR can help you scan alphabets + numbers, phone numbers, dates, and license plates. Be aware that this function needs to be authorized.

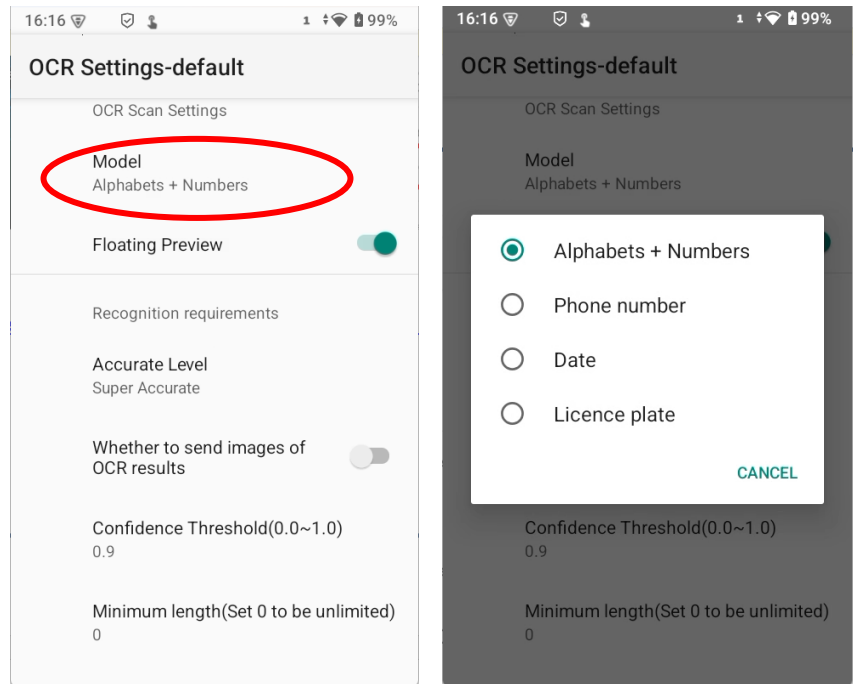
Update authorization

Once authorized, tap “Quick Setting”  -> “OCR Settings” -> “Update authorization” -> “Authorization information” will appear when you are successfully authorized.



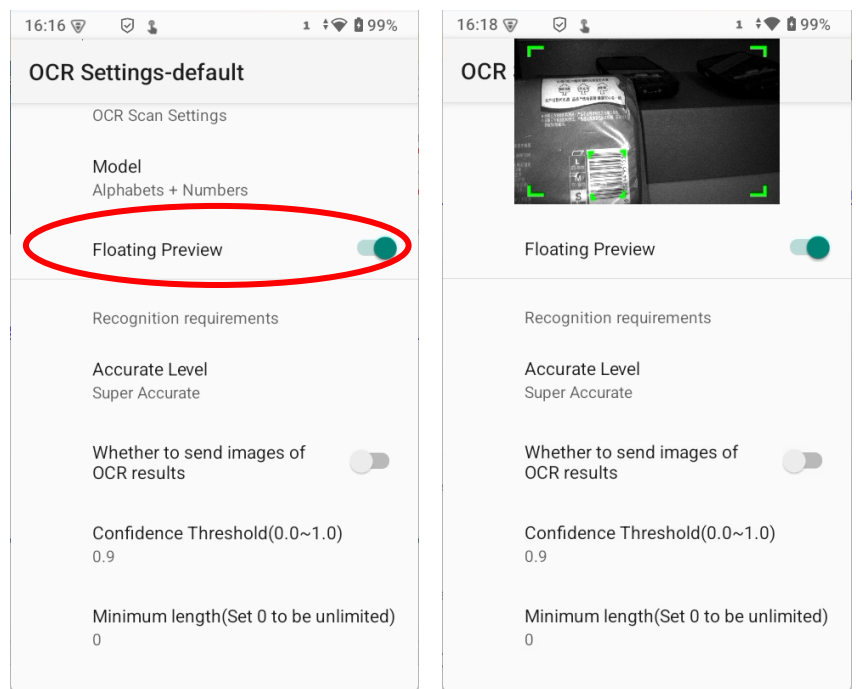
Model selection

Tap “Model” to select the model that best suits your needs. The default setting is “Alphabet + Number”.



Floating preview

When this option is enabled, a floating preview window showing the captured scanner image will appear on the screen.



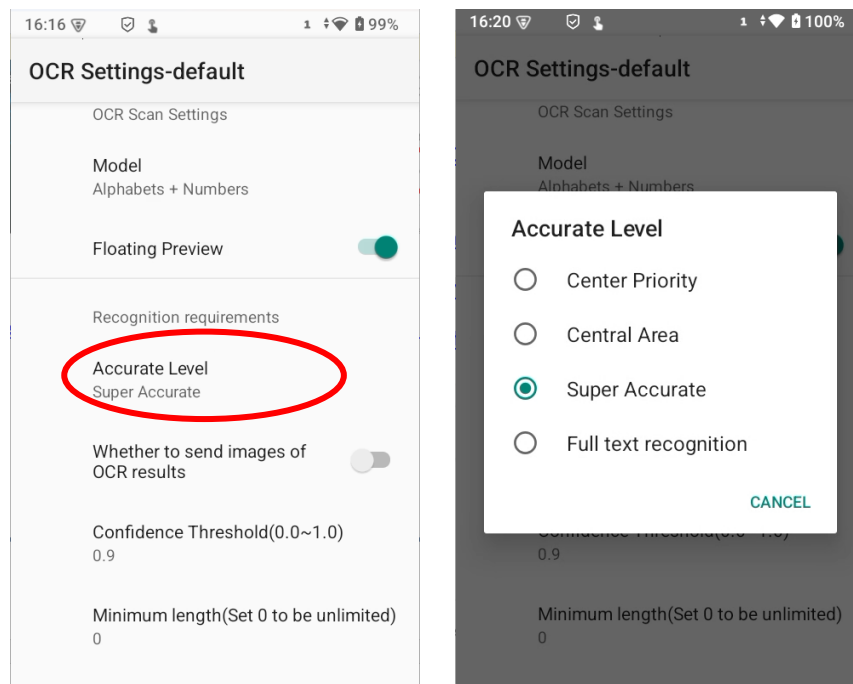
Accurate Level

Center Priority: The OCR engine gives higher processing weight to the central area. Edges are processed with lower priority.

Central Area: The engine only processes the center region. Everything outside that zone is ignored.

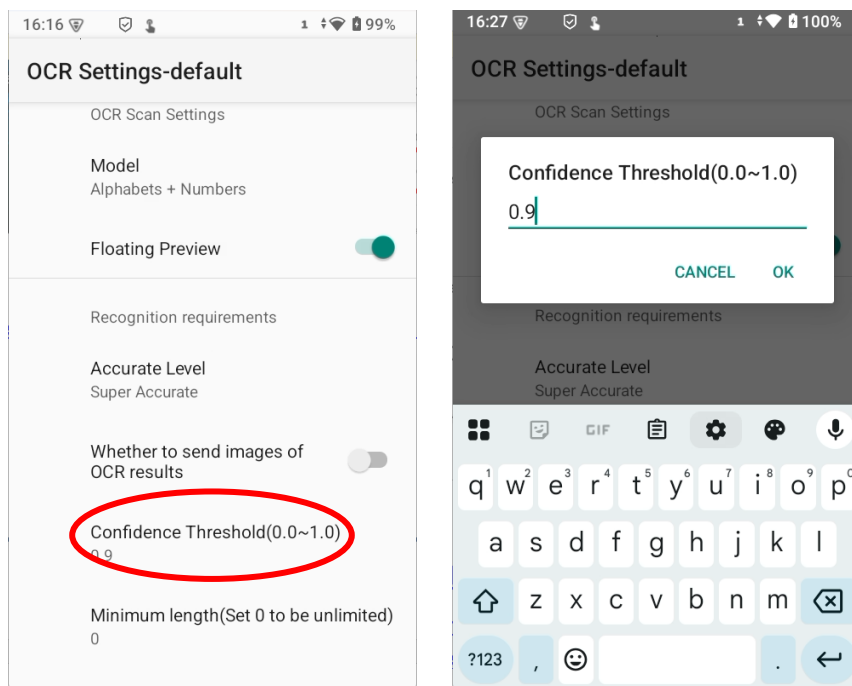
Super Accurate: The engine will try to maximize recognition precision. Processing time is significantly longer.

Full test recognition: The engine attempts to recognize all textual content.



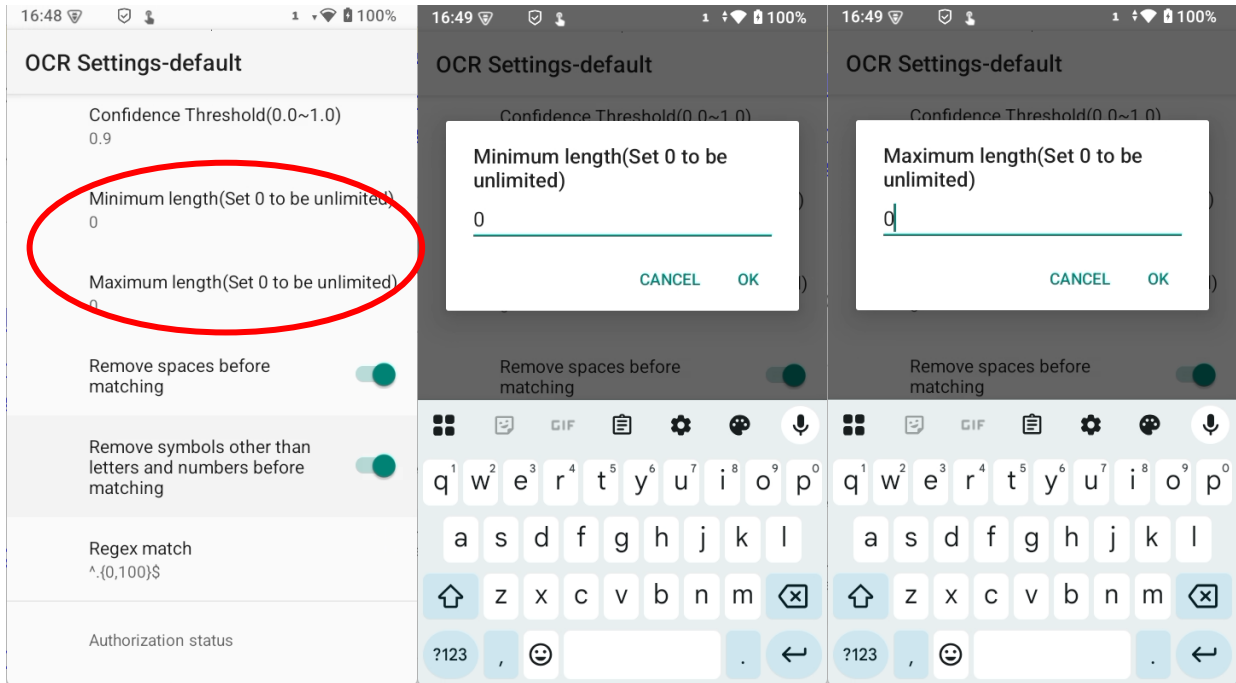
Confidence Threshold

Confidence Threshold is a quality filter. For every recognized character, the OCR engine assigns a confidence score (0.0–1.0) indicating how sure it is about the result. The threshold is the minimum score required for a result to be automatically accepted.



Minimum length & Maximum length

You can set minimum length and maximum length for the OCR engine. In this case, the OCR will only recognize and output result within the preset length range, otherwise the OCR engine will not respond.



Remove spaces before matching

The OCR engine will remove spaces before matching and output result without space.

Remove symbols other than letters and numbers before matching

The OCR engine will remove symbols other than letters and numbers before matching and output results without letters and numbers.

Regex match

You are able to modify the regex match to constrain the context you want to recognize and output as needed.

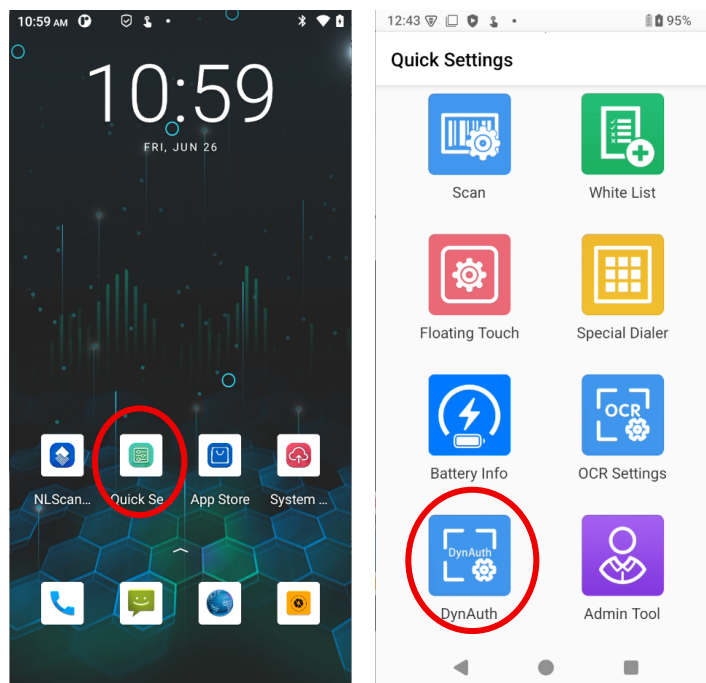
Chapter 18 DynAuth

Introduction

DynAuth helps you grant **ALL** permissions to your stated apps at once.

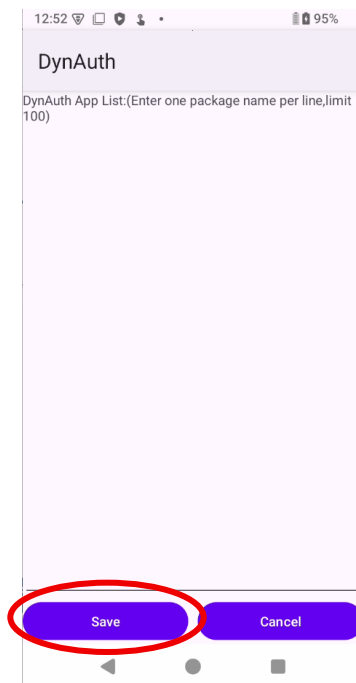
Launch the DynAuth

Tap “Quick Setting”  on the Home screen -> tap “DynAuth” , then you can configure the DynAuth as needed.



DynAuth Setting

Enter the app package names in the text box, one per line, up to a maximum of 100. Tap Save to apply the list.



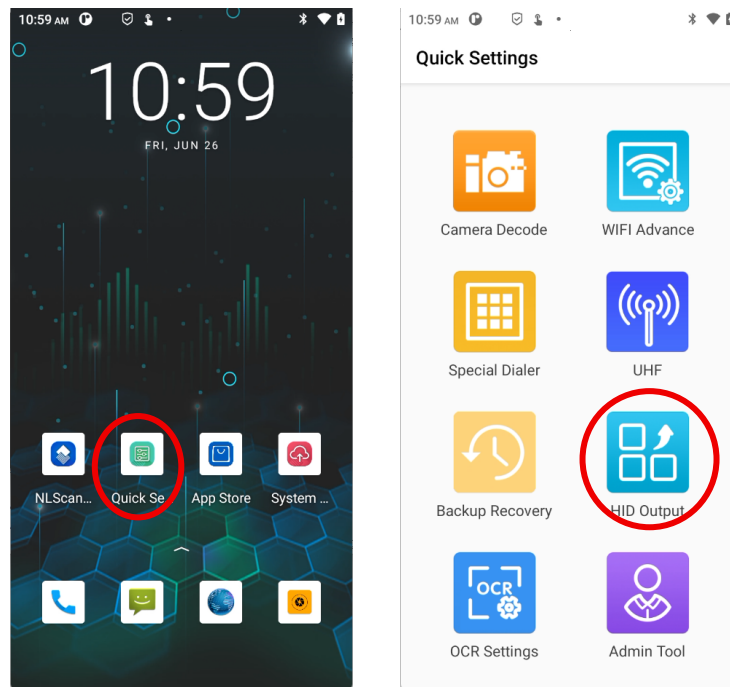
Chapter 19 HID Output

Introduction

HID Output emulates the device as a standard external input device (e.g., a keyboard). Once enabled, all scanned or collected data is transmitted directly to the connected computer.

Launch the HID Output setting

Tap “Quick Setting”  on the Home screen -> tap “HID Output”  , then you can configure the HID Output as needed.



WiFi Output Settings

This menu configures the device to act as a wireless HID. It uses a WiFi network connection to transmit scanned barcode data directly to a receiving host device (like a PC, POS terminal, or server) over a TCP/IP or UDP network.

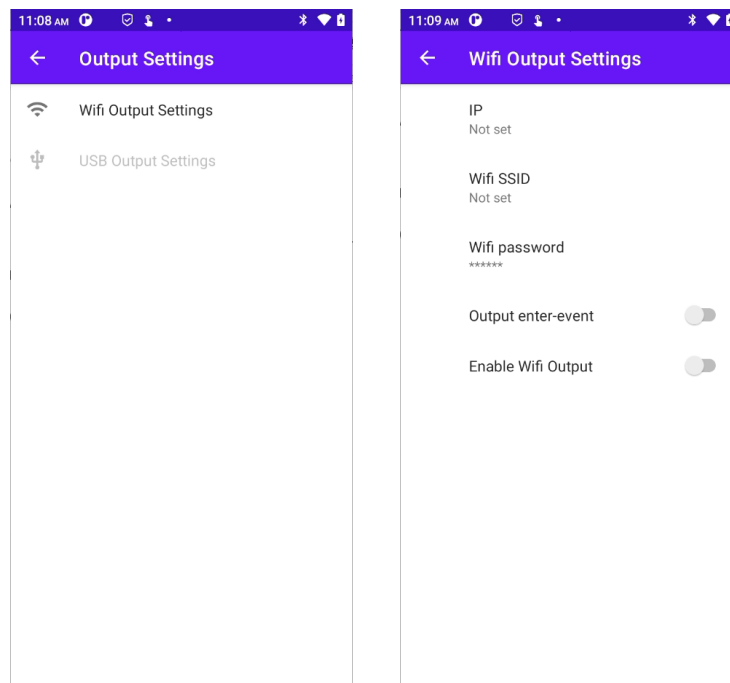
IP Address: The destination IP address of the receiving host or device.

Wifi SSID: The name of the Wi-Fi network you wish to connect to.

Wifi Password: The security password required to connect to the configured Wi-Fi network.

Output enter-event: A switch to control whether an "Enter" (carriage return) keypress event is automatically appended to the end of the outgoing HID data output.

Enable Wifi Output: The master switch to turn the entire Wi-Fi HID output transmission feature on or off.



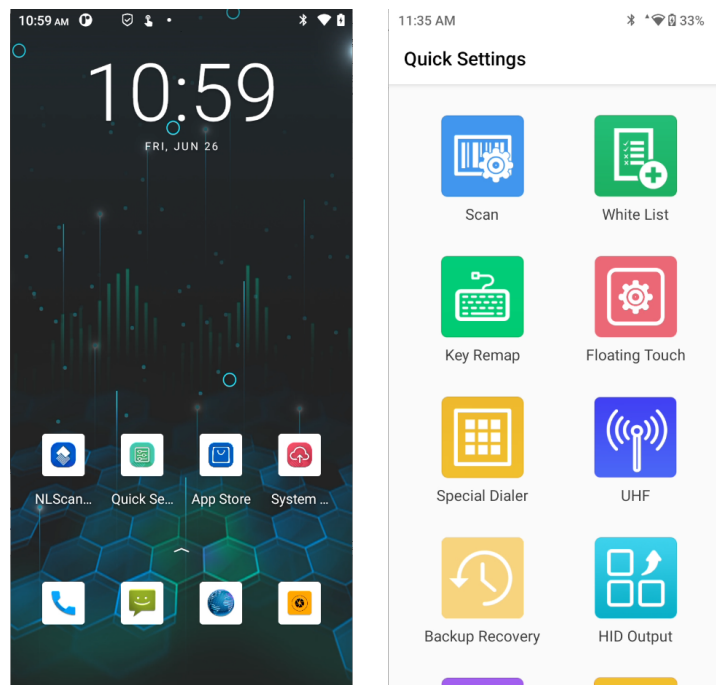
Chapter 20 UHF

Introduction

This chapter introduces instructions for setting up UHF RFID (Ultra-High Frequency Radio Frequency Identification). UHF RFID is a passive, long-range wireless identification technology that enables fast, bulk reading of tagged items without line-of-sight, widely used in supply chain and retail.

Launch UHF settings

Tap “Quick Setting”  on the Home screen -> tap “UHF” , then you can configure the UHF as needed.



Normal settings

This is the general setting for UHF, including turn of/off module, trigger setting, notification, special output mode and reset default setting.

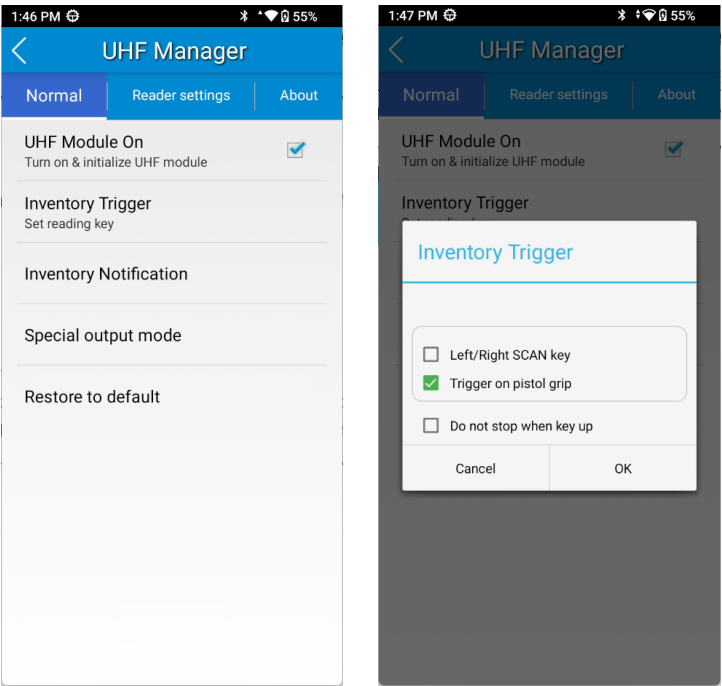
UHF Module On: Powers on the UHF module and initialize the reader. Note: The UHF module consumes significant power, which may shorten the operating time.

Inventory Trigger:

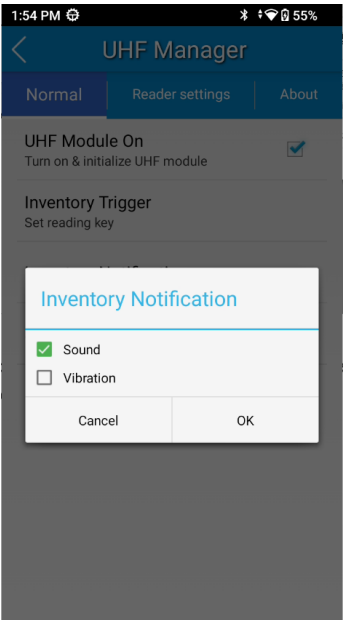
Left/Right SCAN key: Uses the side scan buttons on the device to trigger.

Trigger on pistol grip: Uses the trigger button located on the attachable pistol-grip handle.

Do not stop when key up: When this option is enabled (checked), the inventory process will continue running even after you release the trigger button. If disabled, scanning stops immediately when the key is released.



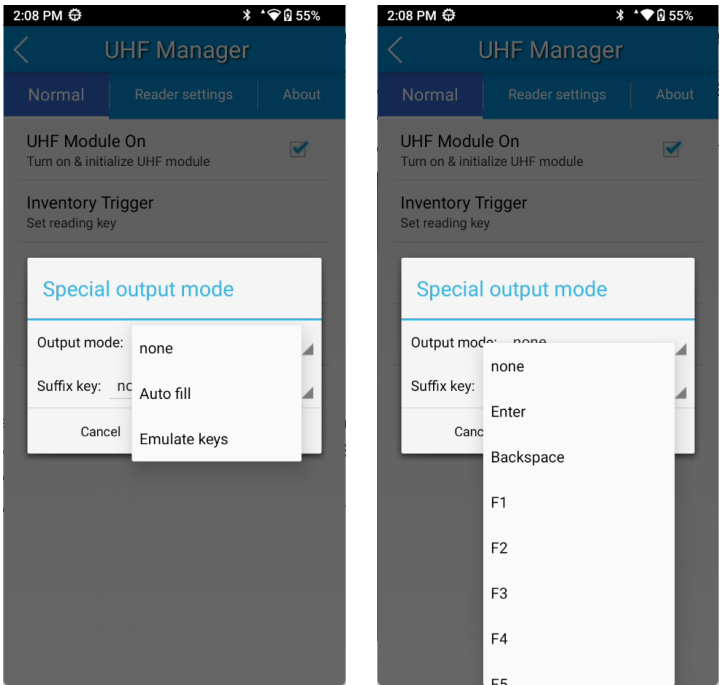
Inventory Notification: You can configure how the device alerts you when a tag is successfully read — the alerts can be sound and vibration. You can enable one or both simultaneously.



Special Output Mode: Enables specific or advanced data output formats.

Output mode: Sets the special output format or processing rule. **None** means no additional process. **Auto fill** means the scanned data will be directly populated into the active input field. **Emulate keys** means the scanned data output simulates keyboard key press.

Suffix key: You can add suffix function key to the scanned data, including Enter, Backspace, F1~F12.



Restore to default: reset UHF settings to the default.

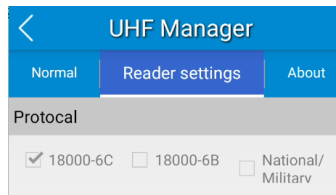
Reader settings

You can configure the specific reader settings here.

Get: Get and display the current setting.

Set: Apply the new setting.

Protocol: This option displays the protocol supported by the current UHF module.



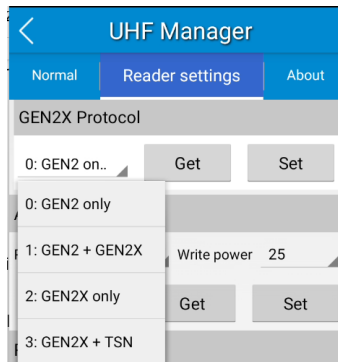
GEN2X Protocol: You can change the GEN2X Protocol here.

0: GEN2 only – The reader uses only the standard Gen2 protocol for communication and does not employ any GEN2X enhancements.

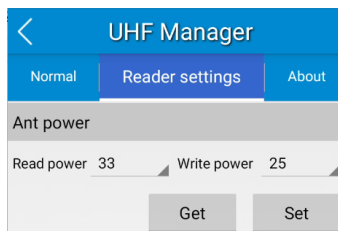
1: GEN2 + GEN2X – The reader supports both Gen2 and GEN2X modes simultaneously.

2: GEN2X only – The reader uses only the GEN2X enhanced protocol.

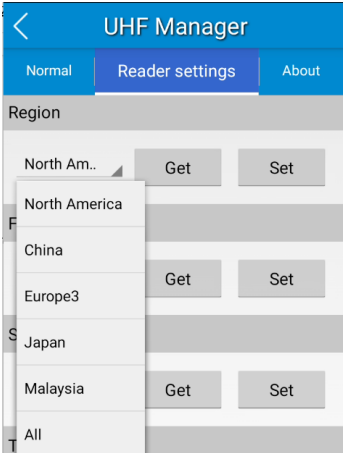
3: GEN2X + TSN – This mode enables TSN (Tag Short Number) on top of GEN2X.



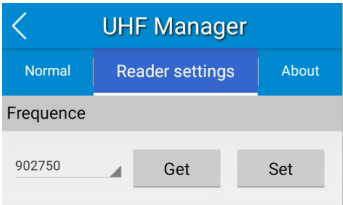
Ant power: You can set the read and write power here. Adjusting the power affects read range, tag sensitivity, and battery consumption – higher power increases range but drains the battery faster and may cause interference with nearby readers.



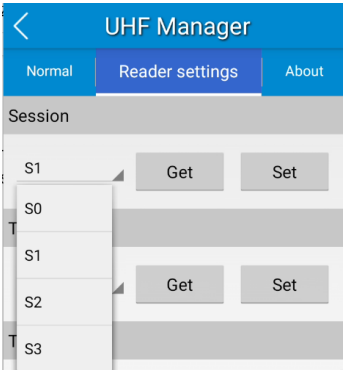
Region: This option allows you to select the regulatory region for the UHF reader module, which determines the operating frequency band and maximum allowable transmit power in compliance with local radio regulations. Selecting the correct region is essential for legal operation and to avoid interference with other devices.



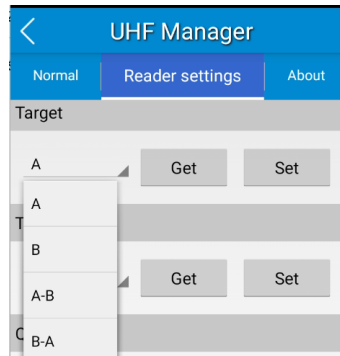
Frequency: This section allows you to manually configure the specific operating frequency channels used by the UHF reader within the selected regulatory region. You can fine-tune which individual channels are active.



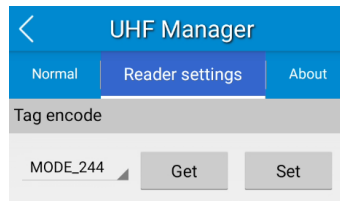
Session: This setting selects which of the four logical inventoried flag sessions (S0–S3) the reader uses during inventory operations. In most cases, either session 0 or session 1 can be used. For a small number of fast-moving tags, select session 0; for a large number of tags (20–30+) moving at a slower speed, select session 1.



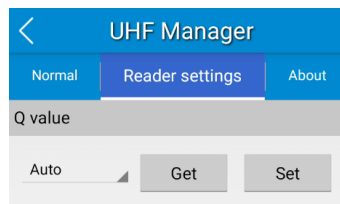
Target: This setting configures which inventoried flag state the reader targets during inventory operations. A: Inventories tags with the A flag. B: Inventories tags with the B flag. A-B: Alternates between A and B during continuous inventory. B-A: Alternates between B and A during continuous inventory.



Tag encoder: This option specifies the encoding mode used for communication between the RFID reader and EPC Gen2 UHF tags.



Q value: The Q value manages the anti-collision algorithm. It determines the number of available communication time slots for tags to respond to the reader. Low Q values provide fewer slots. Best suited for environments with very few tags. High Q values provide more slots. Best suited for environments with many tags.

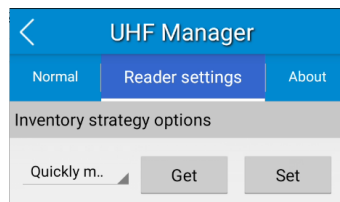


Inventory strategy options:

Single label mode: Optimized for reading only one tag at a time.

Quickly mode: Prioritizes maximum reading speed and throughput.

Multi label mode: Optimized for simultaneously reading a large batch of tags.



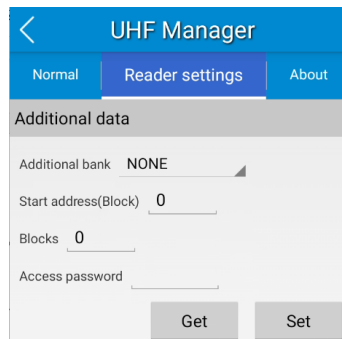
Additional data: You can read additional data by specifying the position of the data.

Additional bank: Select the data bank.

Start address(block): Input the start block.

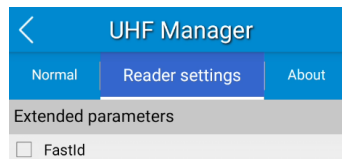
Blocks: The number of blocks you want to read.

Access password: access password of the tag.

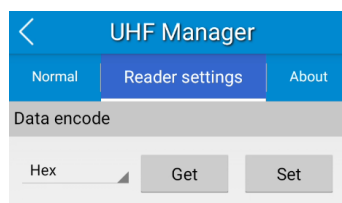


Extended parameters:

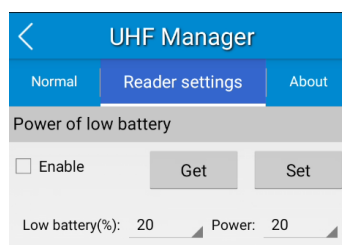
FastId: When enabled, it allows the RFID reader to retrieve the tag's TID simultaneously during the standard EPC inventory read operation.



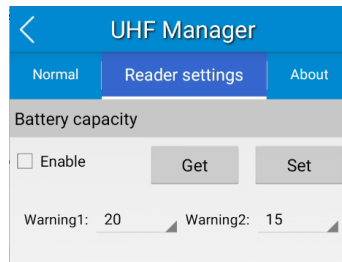
Data encode: This setting determines how the raw byte data read from the RFID tag is decoded and displayed in the app.



Power of low battery: This setting manages the reader's behavior when its device battery is low. When you check the Enable box, the reader will automatically adjust its RF output power to a reduced level. You can set the battery level and power.



Battery capacity: This setting manages the battery low-level alert. You can set two alerts within Warning1 and Warning2.



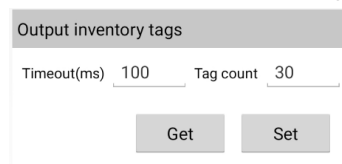
High temperature strategy: This section protects the reader hardware from overheating by changing settings. You can set temperature threshold here and once the temperature exceeds, the reader will automatically reduce its Read power and change Inventory strategy to the pre-set value.



Output inventory tags: This configuration defines how the UHF RFID reader outputs the tags it has inventoried.

Timeout(ms): The maximum time the reader will wait while collecting tags.

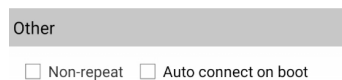
Tag count: The maximum number of tags the reader will include in a single output.



Other:

Non-repeat: When enabled, the reader filters out duplicate reads.

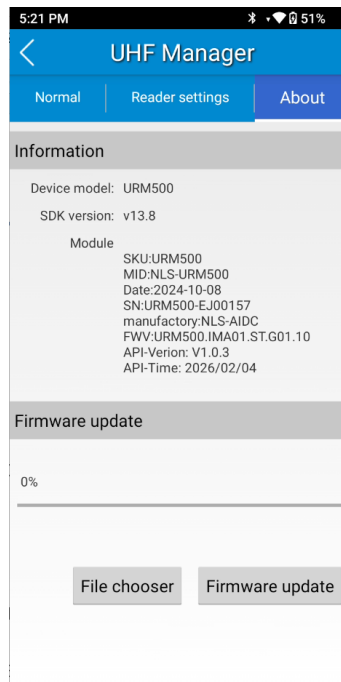
Auto connect on boot: When enabled, the UHF Reader application will automatically establish a connection to the paired hardware reader as soon as the device (or the app) powers on.



About

Information: You can check the UHF module information here.

Firmware update: You can choose the firmware and update firmware in this section.



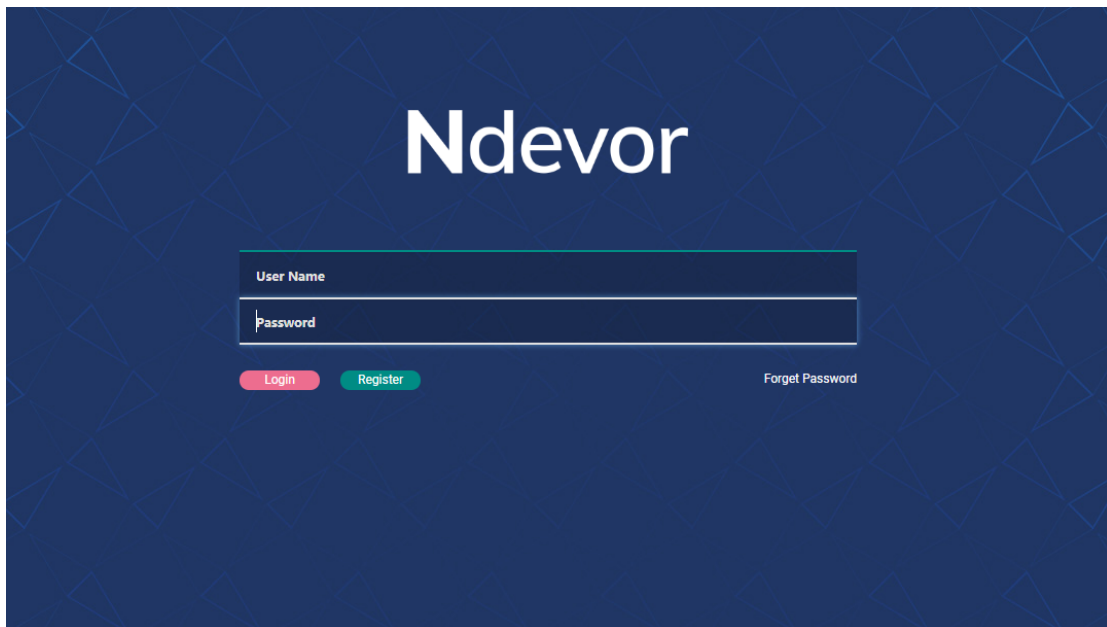
Chapter 21 Ndevor

Introduction

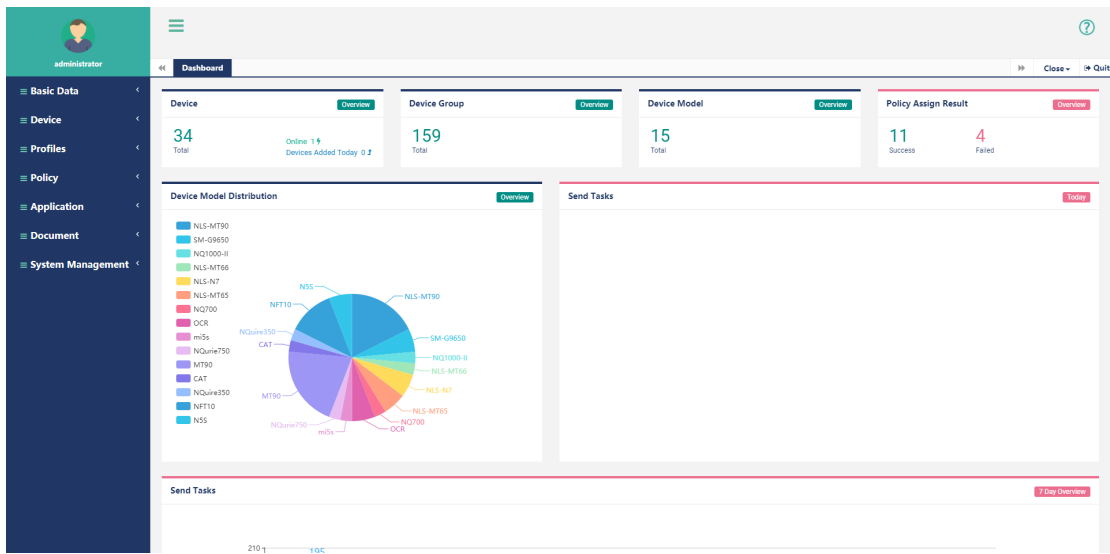
This chapter provides instructions for programming and operating the Ndevor terminal management platform (hereinafter referred to as “the Ndevor”). The Ndevor is to solve the application management problems encountered by enterprises in the implementation of a mobile terminal application system. The 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 Ndever homepage address (<https://ndevor.net/>) in the address box to find and 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:

The screenshot shows the 'Ndevor Register Account' form. The form is titled '1. Info' and contains the following fields:

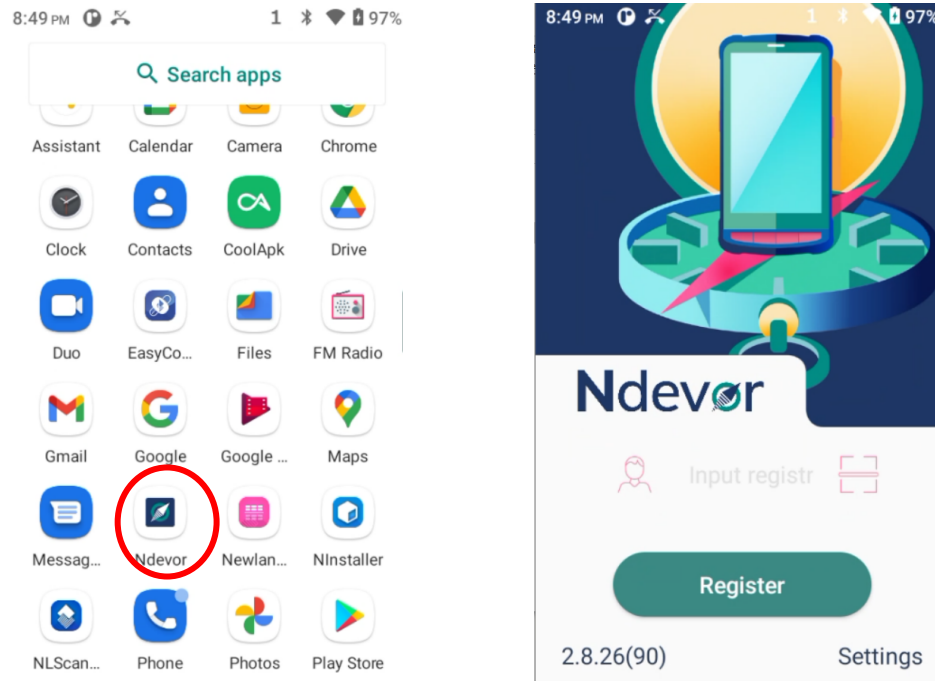
- Name ***: A text input field with a placeholder 'Name'.
- Email ***: A text input field with a placeholder 'Email'. Below it, a note reads: 'Please enter a valid Email Address, you will receive a Confirmation at this Address'.
- Phone Number ***: A text input field with a placeholder 'Phone Number'. Below it, a note reads: '* Required'.

At the bottom of the form, there are two buttons: 'Submit' and '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

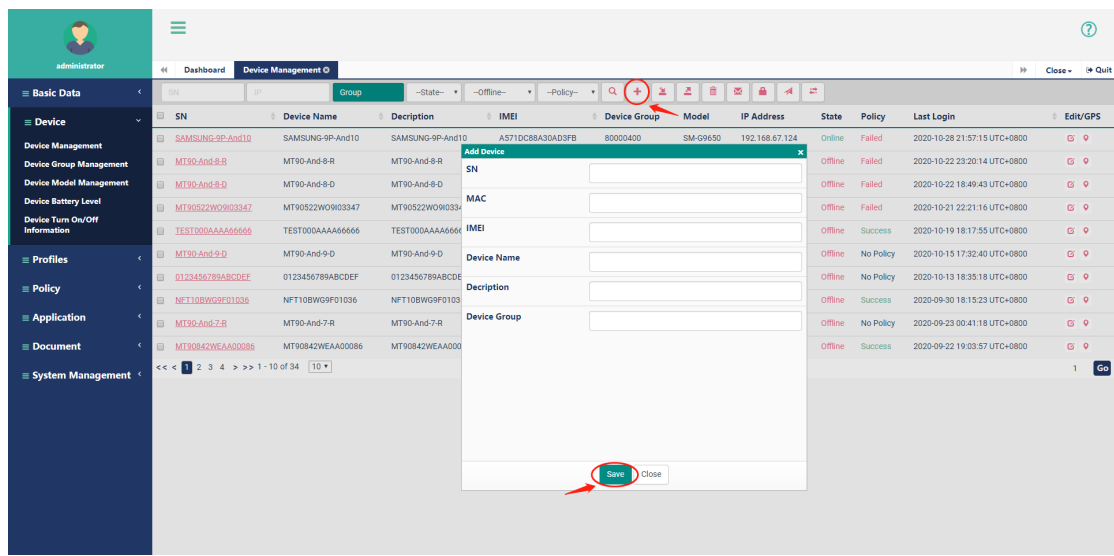
Please contact Newland Auto-ID Tech. Co., Ltd. to obtain the latest Ndevor app software and installation support, or operate with a pre-installed Ndevor app device. Below is the Ndevor Icon after installed:



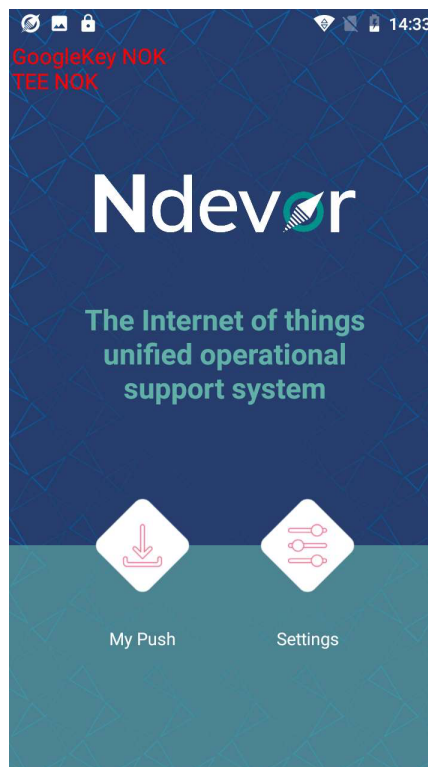
Connect Management System with Terminal App

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*.

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