

D70 User Manual

D70 Long Range Scanning Mobile Computer



Rev1.0

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Version Statement

The information contained in this manual is based on the product specifications and design at the time the manual was written. Subsequent changes may be made, so please take the trouble to obtain the latest version.

Disclaimer

Shenzhen Mind Electronics Technology Co., Ltd. does not make any guarantees for the contents of this manual. MINDEO reserves the right to correct any errors, and waives the right to take responsibility for claims.

If you need more product information or support, please contact our sales representative, or check directly on our website.

Security Information

Laser / glare protection

Equipment out of the light part of the sweeping dock for the laser beam / bright light beam, do not point at the eyes of direct light

Watch out for glare, Scanning models: ME5066, SE4710



Watch out for the laser, Scanning models: uE966, SE4770, HS7, N6701, CM60



Charging and Battery Care

The permissible charging temperature of the battery is 0-50°C. Try to ensure that the battery is charged at 20°C-30°C.

Battery room temperature (25 °C) charging time is often 2h-3h can be fully charged, overcharging and over-discharging will affect the life of the battery, insufficient power please charge in time.

Low temperature battery capacity of 5200mAh, normal temperature battery capacity of 6800mAh. low-temperature battery support low-temperature work. Normal temperature batteries do not support low temperature work.

Battery Care:

- 1) Do not charge the battery in direct sunlight, which may cause electrical adverse reactions.
- 2) Lithium-ion batteries have a limited life cycle in terms of charging and discharging. When the life cycle is reached, the battery may expand, when you find this phenomenon, please replace the battery in time.
- 3) Please ensure that the battery power is at or below 30% for long term transportation to avoid the danger of overheating, smoke or fire.
- 4) Do not store the battery at temperatures exceeding 50°C, and do not expose the battery pack to high external pressure for a long period of time, as this may lead to internal short-circuiting and overheating.
- 5) When the battery is not used for a long period of time, please remove it from the device and place it, and it is recommended to charge it to about 60% and store it at dry room temperature.
- 6) Do not replace the adapter and battery that are not compatible with the product, which may lead to some safety hazards and accidents, thus causing personal injury and property damage.

volume indicator

The device is equipped with 2W ultra-linear speakers, the volume is loud and three-dimensional, even in a noisy environment to hear the device scanning sound. Pay attention to adjusting the volume button to avoid long-term high decibel working of the ear

Long-term high decibel working condition may cause ear damage.

Equipment maintenance

The equipment can support multiple 1.8m high altitude drop, 1000 circles of tumbling impact, IP68 level protection, the screen is not easy to scratch, strong protection ability under normal operation.

If you are in a high-intensity high altitude and other operating environments, it is recommended to equip with a protective cover and screen protection toughened film to reduce the possibility of equipment damage.

Daily use of spray alcohol to wipe the surface of the equipment, disinfection and cleaning operations or clean wet cloth to wipe the dust and debris, it is not recommended that the equipment is immersed in water, which may lead to water ingress. If it is a working environment needs, please communicate in advance when placing an order.

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1 Equipment-related

1.1 Brief introduction

D70 can support up to 20m long-distance sweeping, suitable for long-distance sweeping work. D70 Ultra cold-connected version, support -30 degrees Celsius low-temperature work, the screen and sweeping dock can be heated.

Designed for professional working environment, high reliability and high protection, IP68 level protection 1.8m fall prevention. 2.2GHz CPU, Android 14 operating system, high performance configuration, fast response, smooth and silky smooth. 29 keys/38 keys/47 keys, three optional keyboards to meet the operating needs of different working environments, three-dimensional touch feel, suitable for blind typing operation; reasonable gap, reducing the possibility of miscontact. Possibility of mis-touching. Normal temperature 6800mAh high-capacity battery, even up to 8h work without fear of power loss. Built-in power reserve, power change without shutting down, rapid power change without waiting. 13 megapixel high-definition rear camera, easy to take pictures of daily work records.

It is also equipped with 2.4G/5G Wi-Fi, Bluetooth 5.2, global communication bands, GPS, NFC, and multiple sensors for a more superior experience.

This manual is designed to guide you on how to use the device, help you understand more features and usage of the device, and become a little helper in your work.

In order to minimize bad operation, please read the manual carefully before use.

1.2 Android version

This device uses Android 14 operating system.

1.3 SN Number

To view the SN number of the current device, open Settings->About Device, Scroll down to the bottom

to see the SN number.

1.4 System Version

To check the system version of the current device, please open Settings->About Device, the Build number at the bottom is the system version.

1.5 Service Information

If you need technical support or pre-sales and after-sales service, please provide the following information when contacting the service support of Shenzhen Mind Electronics Technology Co., Ltd.:

- 1) The Device name and Model of the device(Available in the About device);
- 2) The SN number of the device(SN number);
- 3) The Build number of the device(System Version).

1.6 Contact information

Shenzhen Mind Electronics Technology Co.

Landline: +86 755 86329868 ext 845

Website: <https://www.mindeo.cn>

E-mail address: wangny@mindeo.cn

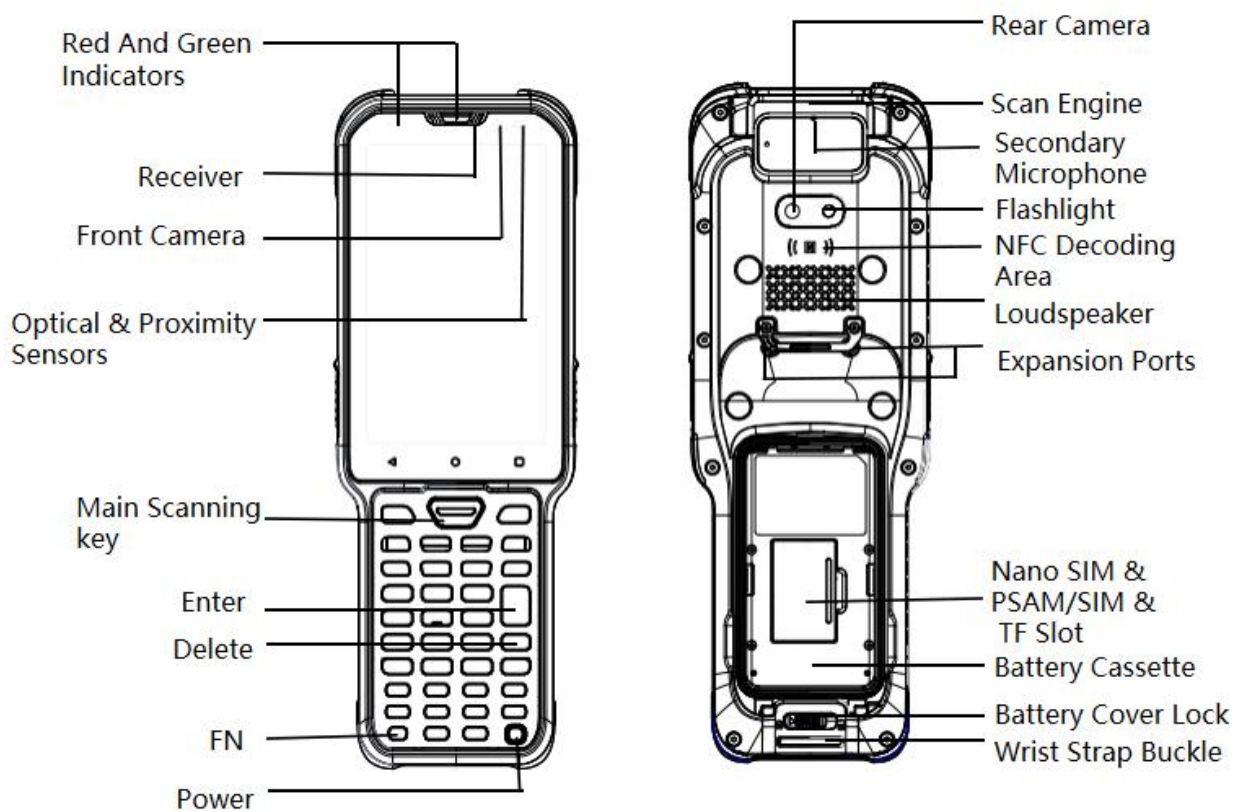
Address: 5th Floor, Section 1, 25th Block, No.5, Kezhi Xi Road, Keji Yuan, Nanshan District, Shenzhen, P.R. China

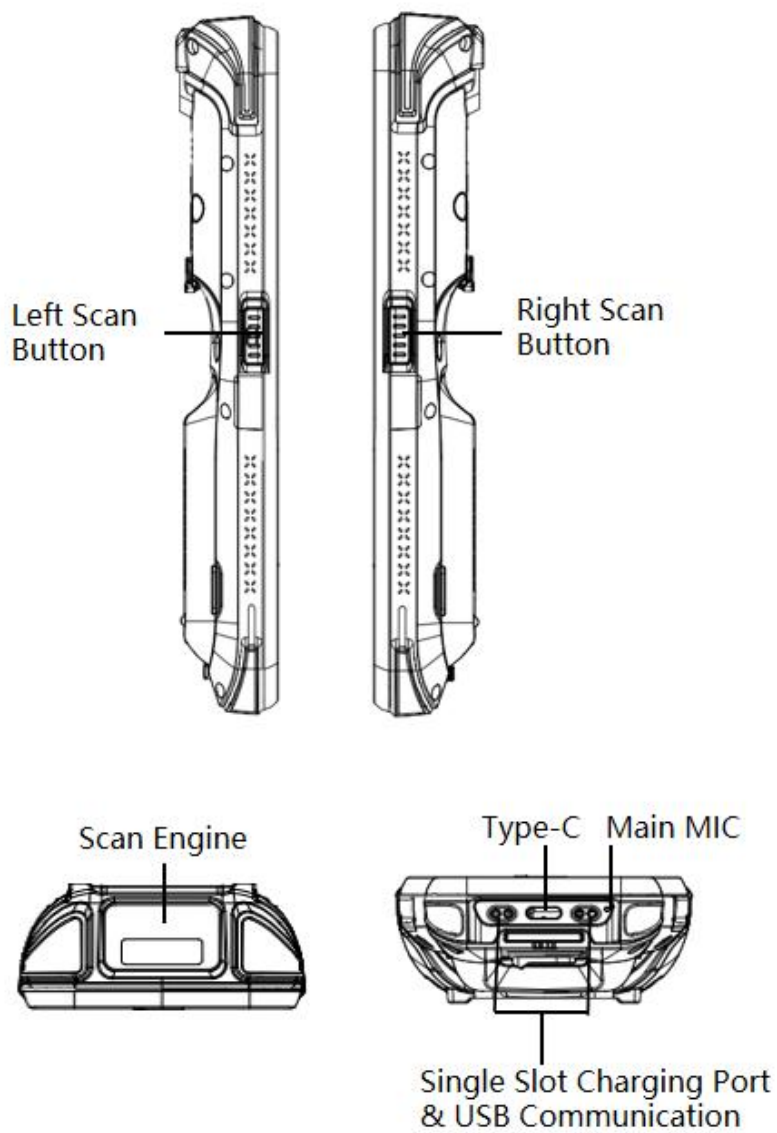
1.7 Manual Version

Version	Date	descriptions
D70 User Manual	2024/12/4	first edition

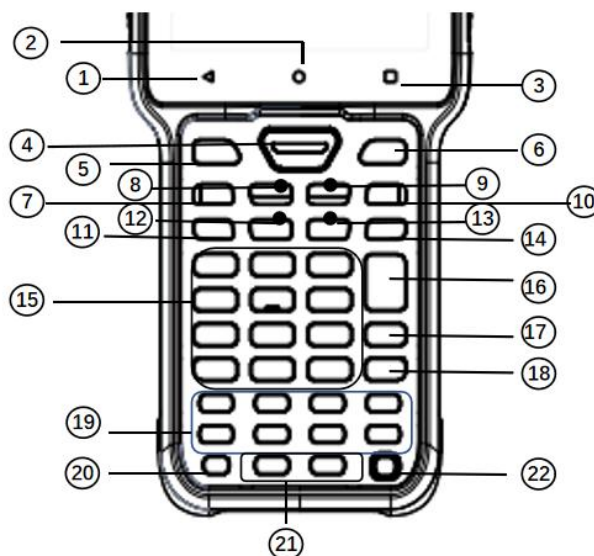
Rev 1.0		

2 Appearance Description





3 Keyboard Introduction



number	button	description	number	button	description
1	BACK	return to	2	HOME	Back to main page
3	APP-SWITCH	Nearest working window	4	KEYBOARD_P1	Button Customization
5	SCAN_2	main scanning key	6	KEYBOARD_P2	Button Customization
7	DPAP_LEFT	Numeric mode: shift left. Lowercase letter keys: Volume up.	8	DPAP_UP	Numeric mode: shift up. Lowercase keys: brightness up.
9	DPAP_DOWN	Numeric mode: shift down. Lowercase keys: brightness down.	10	DPAP_RIGHT	Numeric mode: shift right. Lowercase letter keys: Volume down.
11	ESCAPE	quit	12	TAB	Similar to computer keys
13	ALT_LEFT	Button Customization	14	CTRL_LEFT	Button Customization

15	NUMBER	Enables numeric or English keystrokes to be entered. Quick tap in English mode to switch between different symbol keys or English keys.	16	ENTER	Enter, confirm
17	DEL	delete	18	SHIFT_LEFT	English Input Case Switching
19	F1~F8	Button Customization	20	KEYBOARD_STATE1	Fn key to switch the keyboard to English and numeric keypad
21	F9、F10	Button Customization	22	POWER	Power on/off button

Note: All of the above key values can be customized for usage, you can define them as new key values in the key mapping/open the software to explore your own best way of operation.

4 Important page introduction

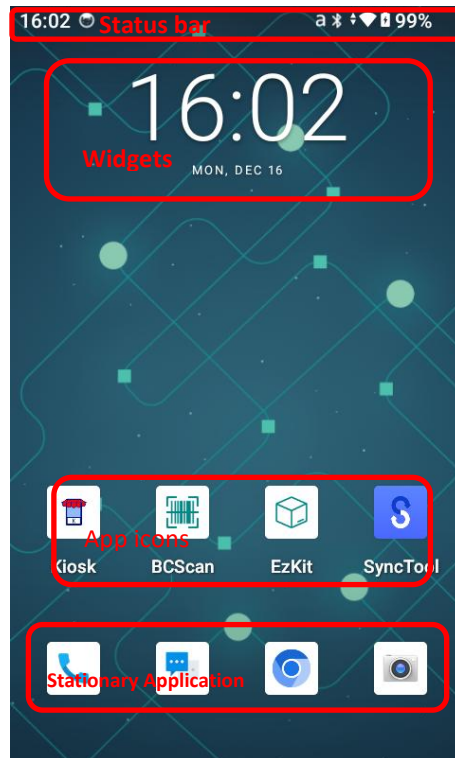
4.1 Main Page

Main Page The main elements included:

- 1) App icons: the most frequently used apps by users are usually placed on the home screen for quick access.
- 2) Folders: Users can put related app icons into folders to keep the home screen tidy.
- 3) Widgets: Some apps provide widgets that display real-time information such as weather, calendar, news summaries, etc. without the need to open the app.
- 4) Dock bar: The operating system allows users to fix a row of application icons at the bottom of the screen, which usually include frequently used applications such as phone calls, text messages, and browsers.
- 5) Wallpaper: Users can customize the background image or dynamic wallpaper.
- 6) Notification bar: Pull down to open the notification bar, displaying app notifications and system information, users can pull down to view more notifications and quick settings.
- 7) Status bar: Display time, date, battery level, network connection status and other information.
- 8) Gesture operation: Swipe up, pull down, multi-finger operation
- 9) App Drawer: Swipe up to open the app drawer, the operating system allows users to access all apps

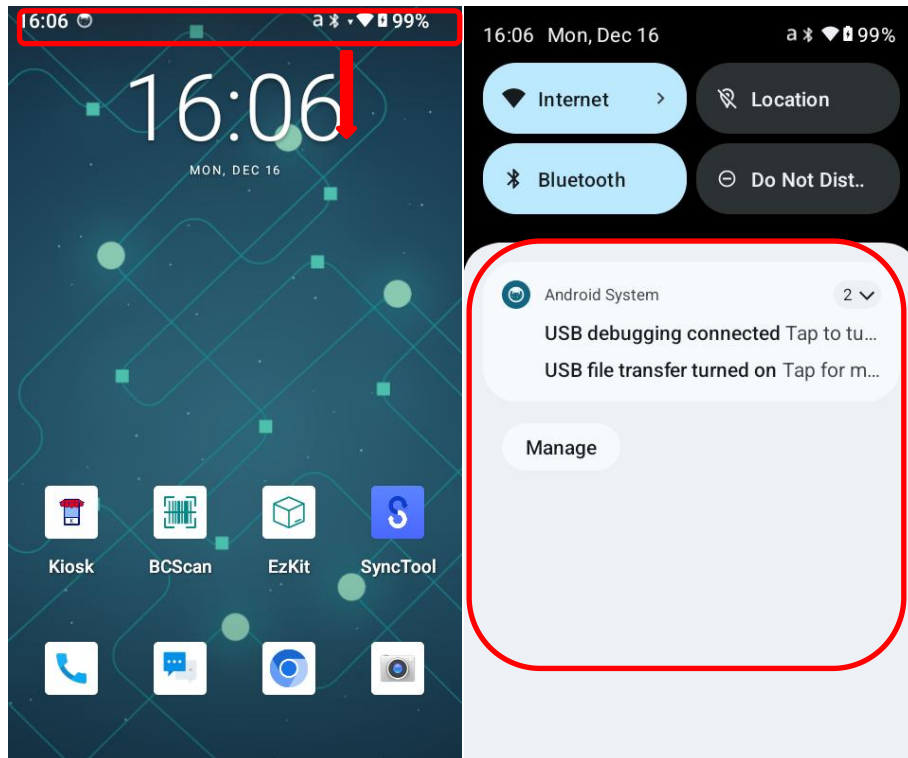
through a single screen instead of putting all app icons on the home screen.

10) Personalized Settings: Users can adjust the icon layout, font size, theme color, etc. according to their preferences.



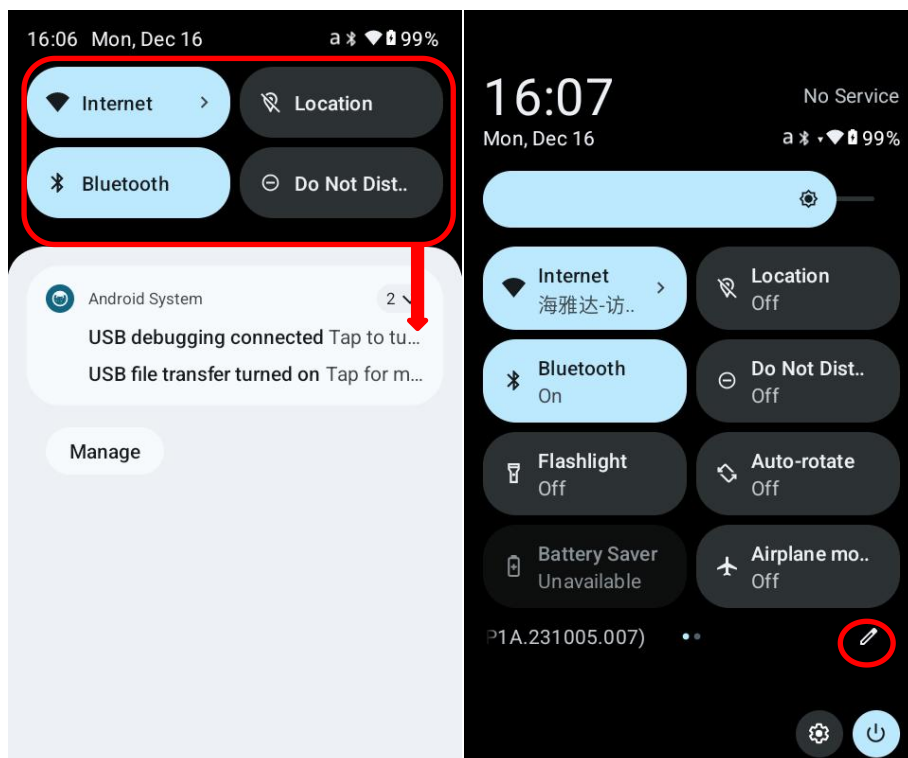
4.2 Notification Interface

Pulling down the status bar opens the notification menu, where you can see your device's notifications.



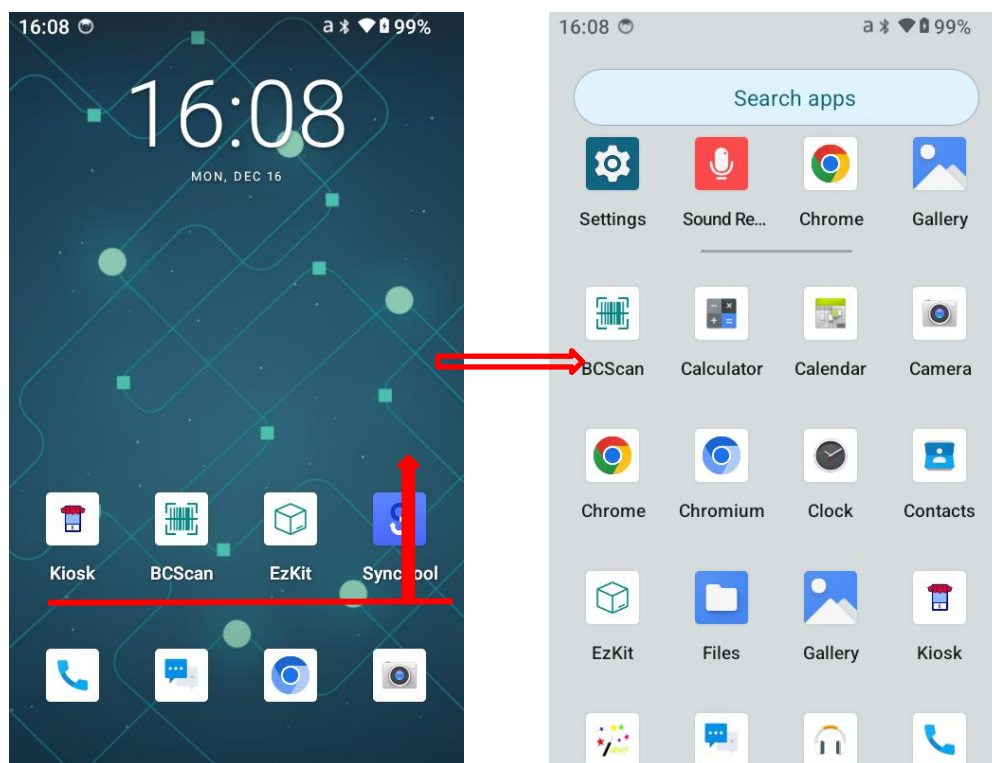
4.3 Pull-down Menu

Pull down the notification bar again to open the drop-down menu settings, click the bottom'✎', you can set the drop-down menu of quick action options.



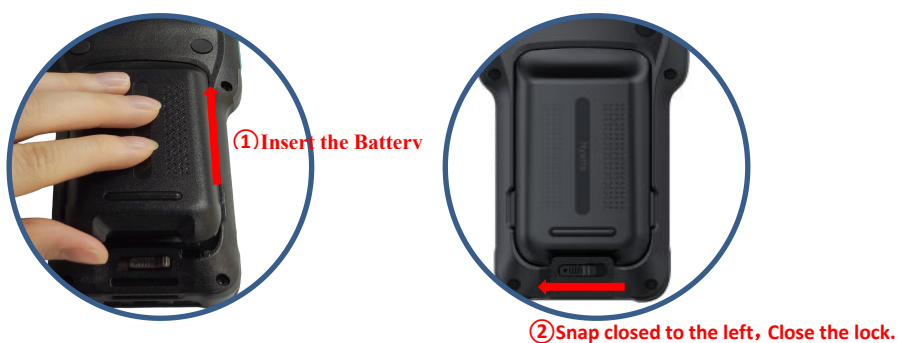
4.3 Application Drawer

Swipe up on the main page to open the app drawer, which shows all the installed apps on the device.



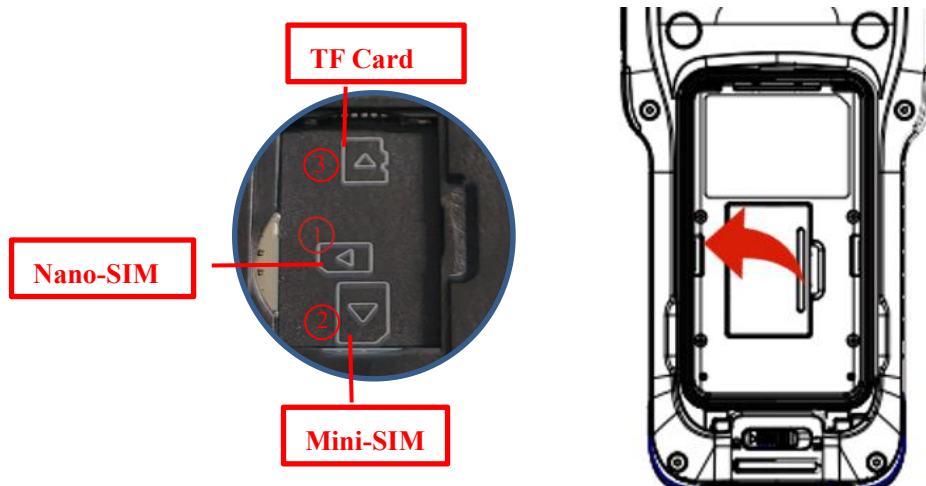
5 Using the Wizard

5.1 Installation of batteries



The battery is designed to be removable. Remove the battery, the top of the battery is inserted into the device first, after the battery is completely closed with the device, toggle the battery latch and snap the battery latch to the left (left for off lock/right for on lock), then the battery is installed.

5.2 Installation of SIM and memory card



Remove the battery, open the protective cover of the card slot, and insert the Nano SIM card, TF card or Mini-SIM card into the card slot in the correct direction (as shown in the picture).

Notes:

- 1) ① Nano-SIM card, as shown in the picture below, the network icon will be displayed after power on.
- 2) ② is Mini-SIM card, as shown in the picture below, the network icon will be displayed after power on. Do not insert the wrong nano-SIM card, it will not be removed.
- 3) ③ for TF card: memory card, inserted will be displayed on the right icon, you can view the memory card storage content in the file APP.

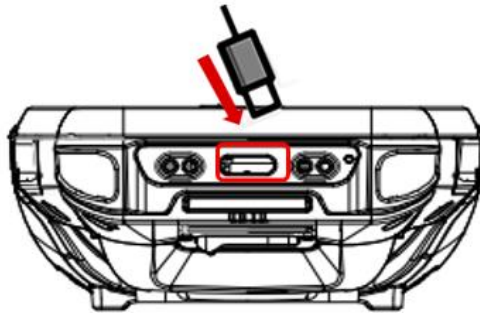


mini-SIM

micro-SIM

nano-SIM

5.3 Device Charging



USB Charging Diagram

Charging with USB cable: Use the configured USB cable to connect the power adapter to a power outlet or connect to a computer via USB cable for charging.

When the device charging indicator is red, charging is in progress, and when the indicator is green, charging is complete .



Single-Slot Charge Diagram

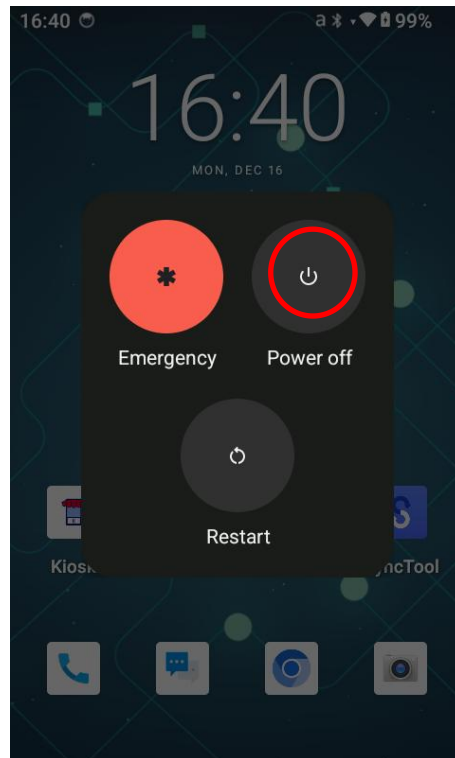
Charging with Single-Slot Charge: As shown in the picture above, the device is plugged into the Single-Slot charger, which connects the power cord to the power outlet for charging. While the device is charging, the Single-Slot charge also supports one battery charging.

The left indicator light of the charger is the device indicator light, and the right indicator light of the charger is the battery indicator light. When the charging indicator is red, it means charging is in progress, and when the indicator is green, it means charging is complete.

Note: If the device is not used for a long time, please charge the whole device at least once every two months to ensure that the backup battery in the device will not be over-discharged.

5.4 Switching method

1) Shutdown: Long press the Power button until the following window appears after the device vibrates, click Shutdown and the device shuts down after 3s.

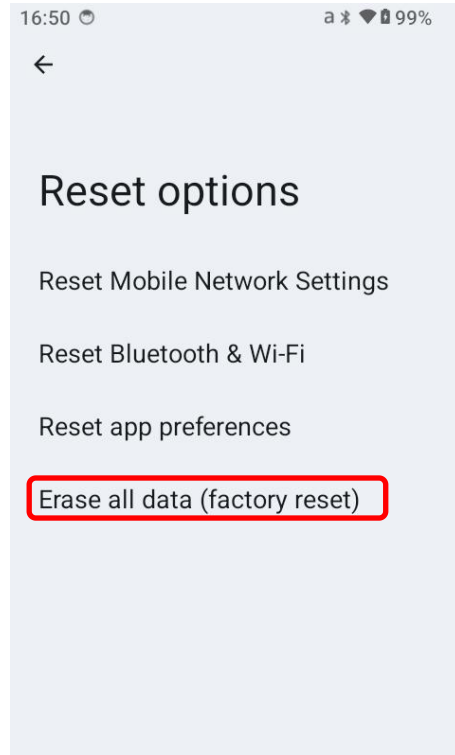


2) Power on: Long press the Power button until the device vibrates, the power on interface appears, and the device powers on within 23s.

5.5 Restore factory settings

operation: Settings->System->Reset option->Erase all data (factory reset)

Click Erase all data(Restore Factory Settings) to reset the device to its factory state and all your data is cleared. Before restoring factory settings, please be careful to save your information or data in the device in advance, they will not be able to be retrieved after restoring factory settings.



5.6 Data transfer

1) The device is connected to the computer via USB to transfer files or pictures:

- device is connected to the computer via USB;
- Open the device, Setting->Expansion Dock->Host mode, make sure the Host mode of the docking station is 'DC PC';
- open the device, Settings->Device Manager->USB Manager, select USB Manager as 'File Transfer';
- Turn on your computer to view and manage your device's internal storage space from within your computer's file explorer.

2) The device connects to a computer through the base to transfer files or pictures:

- device is inserted into the Single-Slot Charge;
- The Single-Slot Charge connects to the computer via a USB cable;
- Open the device, Setting->Expansion Dock->Host mode, make sure the Host mode of the docking station is 'DC OTG';
- open the device, Settings->Device Manager->USB Manager, select USB Manager as 'File Transfer';
- Turn on your computer to view and manage your device's internal storage space from within your computer's file explorer.

6 Featured Application APP

6.1 SyncTool

SyncTool is divided into three core functions, QRCode Sync, Network Sync, and Web Sync.(For details, please refer to *SyncTool Operation Guide*)

Web Sync provides a service web page, which can generate a QR code for configuration files, and the device can realize one-sweep configuration by scanning the code.

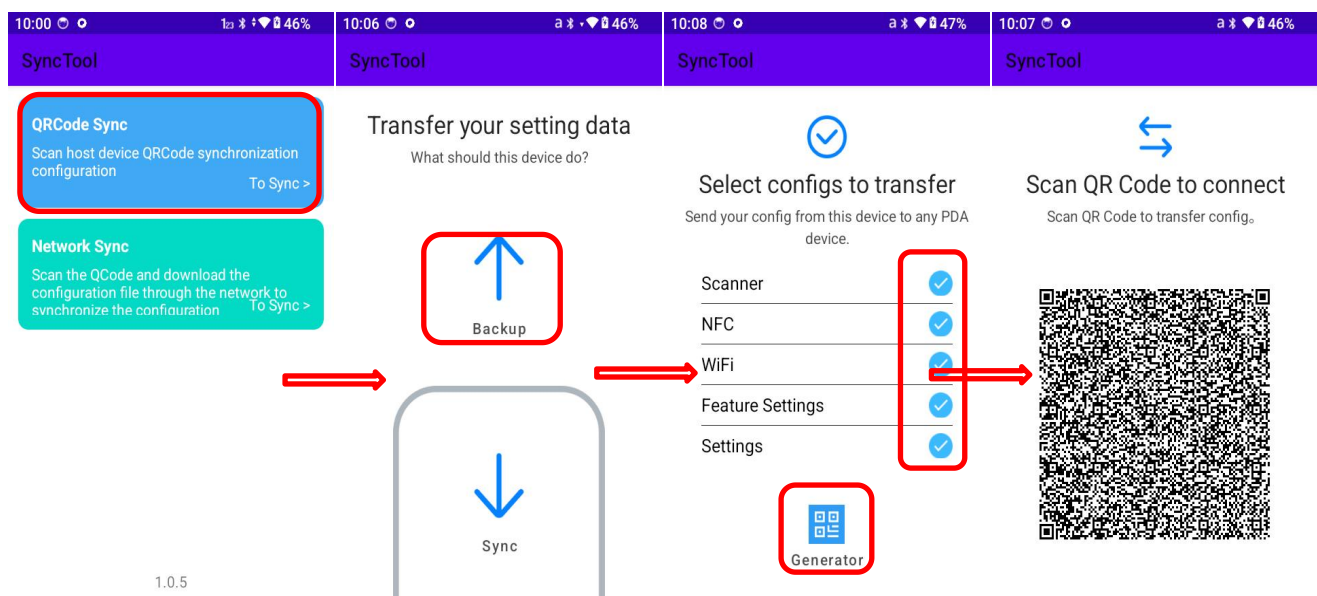
6.1.1 QRCode Sync

Backup settings supported by QR Code Synchronization include: Scanner, Featured Settings, NFC, Wi-Fi, Settings

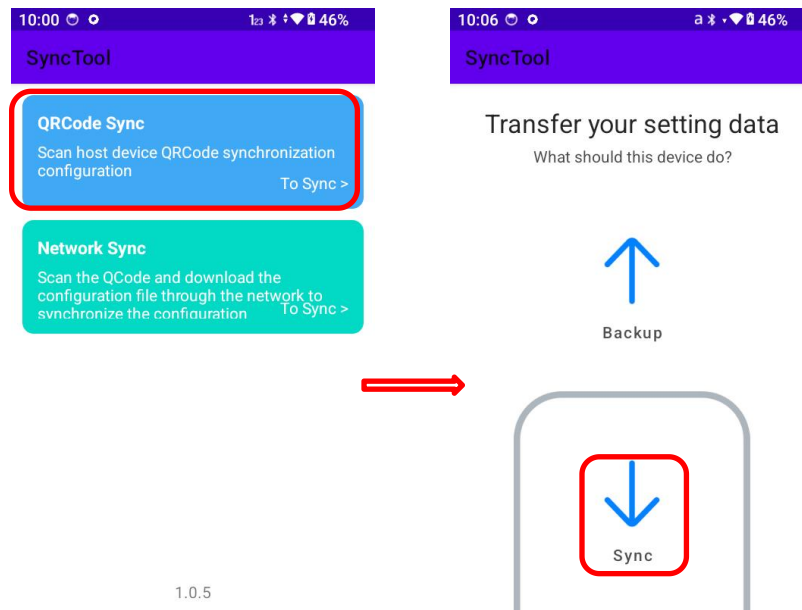
Backup: QR code can be generated directly. Due to the limited content transmitted by QR code, please choose network synchronization and web synchronization for large amount of content synchronization.

Sync: can directly scan the configuration device QR code

1) Backup operations:Click QRCode Sync->Click Backup->Select the desired configuration->Click Generator , You can backup the content to generate a QR code and synchronize it with another device by scanning the code.



2) Synchronous operation :Click QRCode Sync->Click Sync, after clicking Scanning will come out with optical decoding, convenient synchronization configuration.



6.1.2 Network Sync

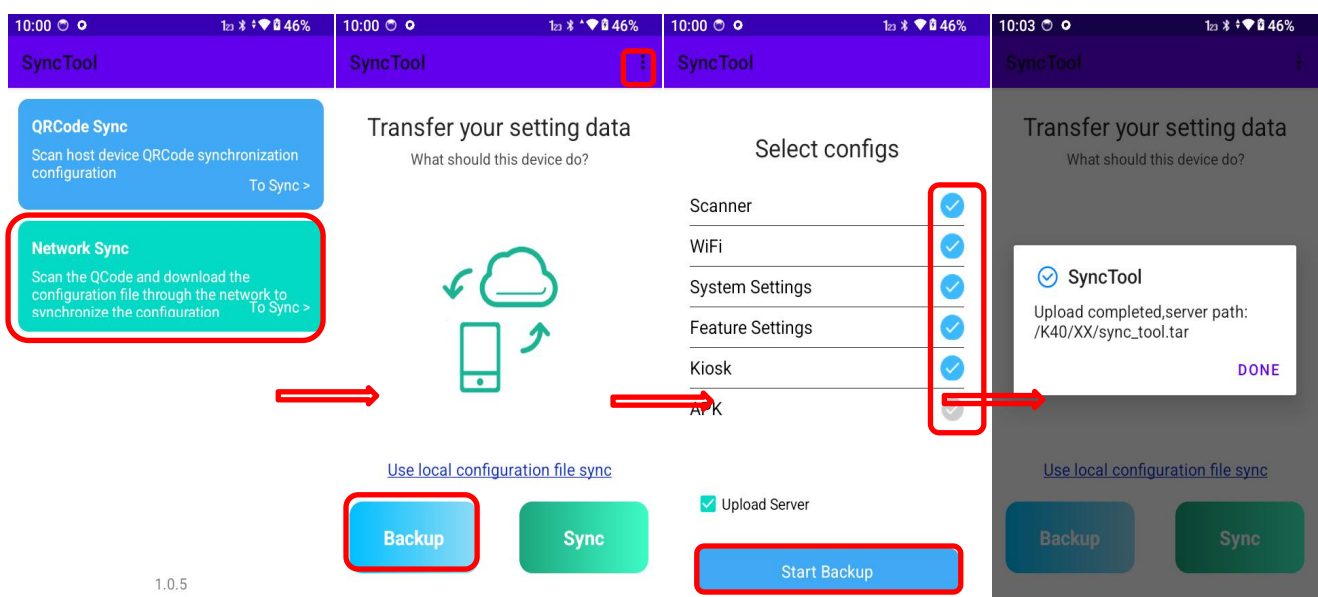
Backup settings supported by Network Sync include: Scanner, Featured Settings, Wi-Fi, Settings, Kiosk, APK.

Backup: Only supports uploading to cloud server and local.

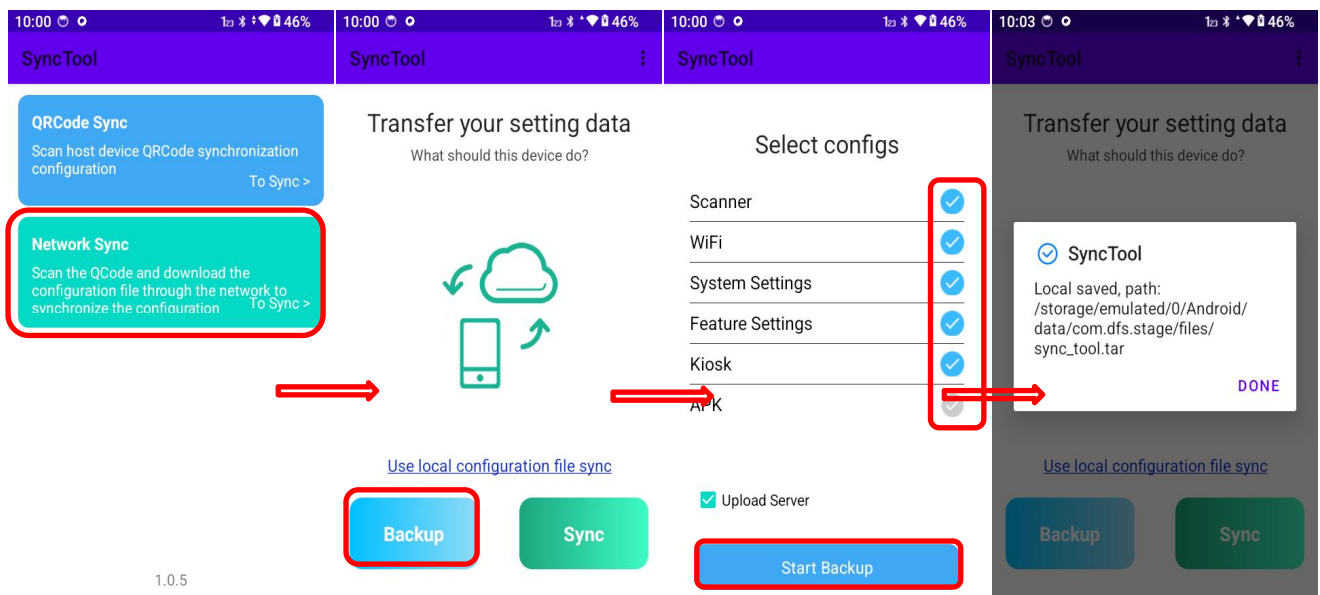
Sync: Only supports local synchronization (configure the device to back up locally) and server synchronization.

Server Settings: Configure the enterprise's server to perform server sync operations.

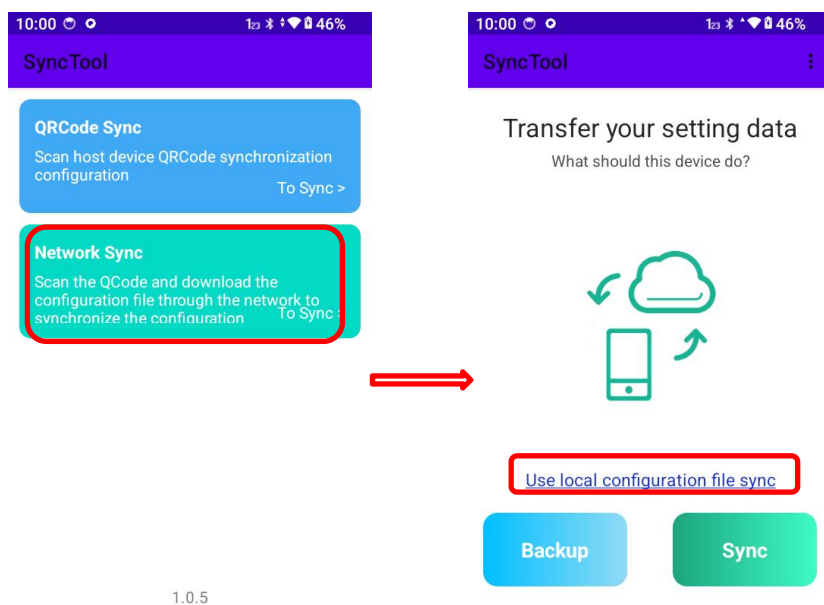
1) Backup to server: Network Sync->Backup, set Sync Settings->Select configs->check Upload Server->Start Backup in the upper right corner of the current page, and the backup content will be saved to the set server location.



2) Backup to local: Network Sync->Backup->Select configs->Start Backup , the backup content is saved to local file location. Each backup overwrites the previous settings, note that the configuration file is saved to another storage location.



3) Use local file sync: Network Sync->Use Local configuration file sync, click in and select the configuration file. Note that the local backup folder can not be found through SyncTool, you need to copy it to another folder in the file APP.

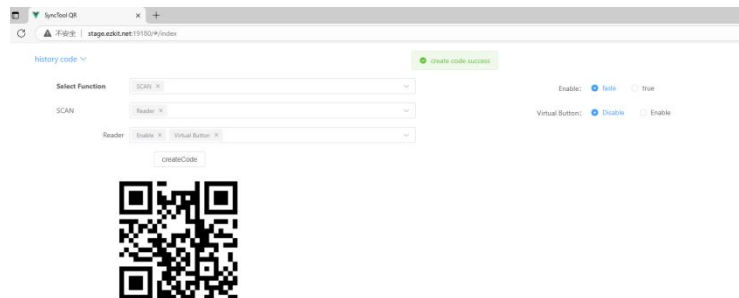


4) Sweep sync: Network Sync-> Sync, Click on it to decode the light.

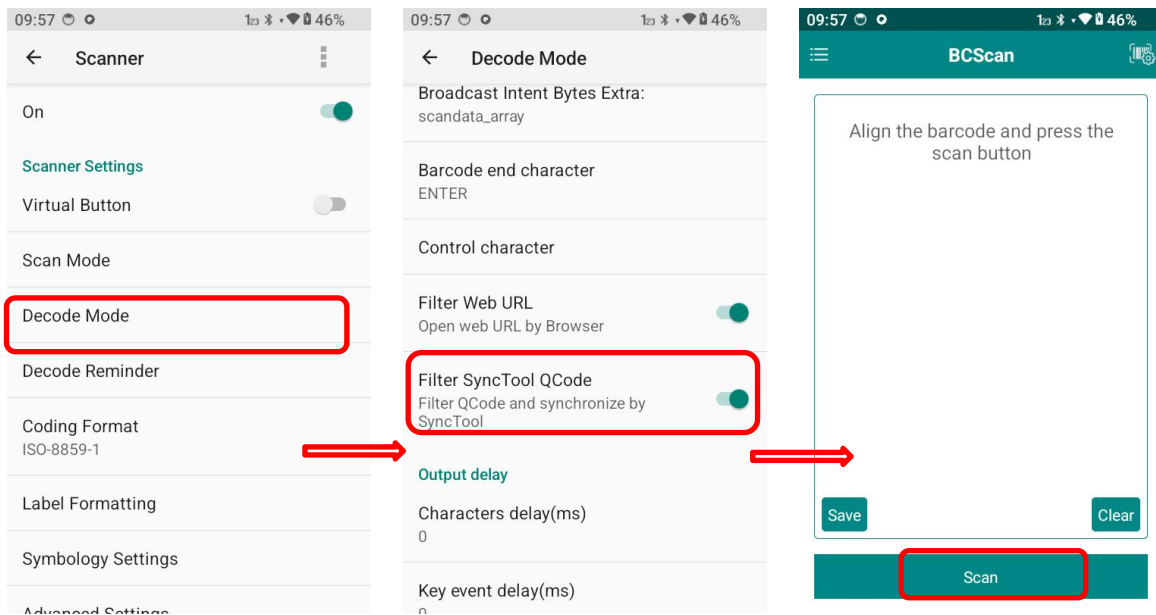


6.1.3 Web Sync

1) Web Configuration: Configure the specified web page at <http://stage.ezkit.net:19180>, and then scan the generated QR code to perform the synchronization operation, as shown in the following figure. (For details, please refer to *SyncTool Operation Guide*)



2) Webpage Sync: Scanner->Decode Mode->Filter SyncTool QR code, scan the QR code generated by the webpage in the BCScan demo box to complete the synchronization configuration.

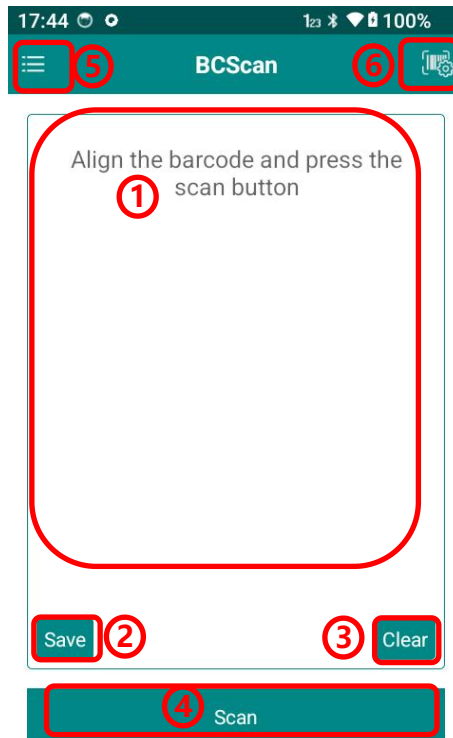


6.2 BCScan

6.2.1 Demo page

Open the software BCScan to enter the code scanning demo interface, the content of the code scanning is displayed in the center.

- ① Code scanning demonstration box, when the code scanning content beyond the current interface, you can scroll down to view.
- ② Save the contents of the demonstration box, you can save to the root directory of the file.
- ③ You can clear all the contents of the current demo box.
- ④ Click on the scanner to see the light, and you can input the code.
- ⑤ Click to enter the feature test interface.
- ⑥ Click to enter the Scanner setting interface.

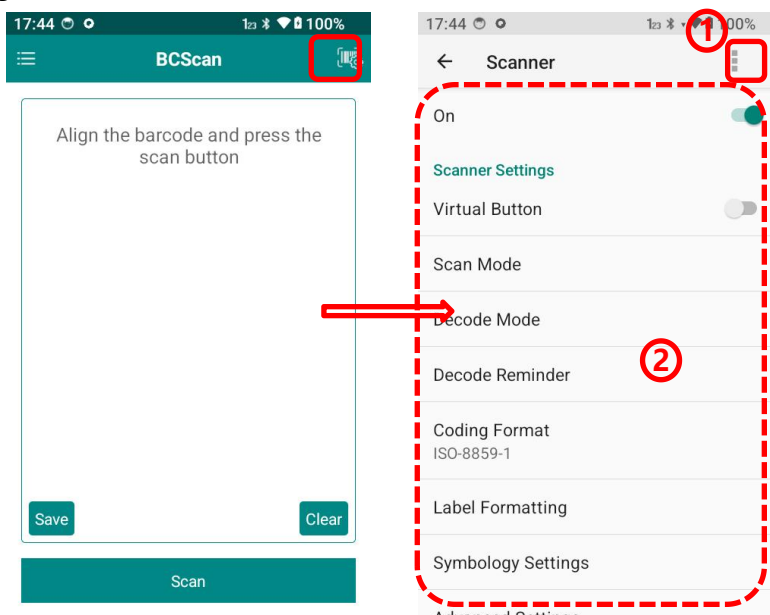


6.2.2 Scanner

Click on the upper right corner of the Bcsan demo decoding interface to enter the Scanner interface.

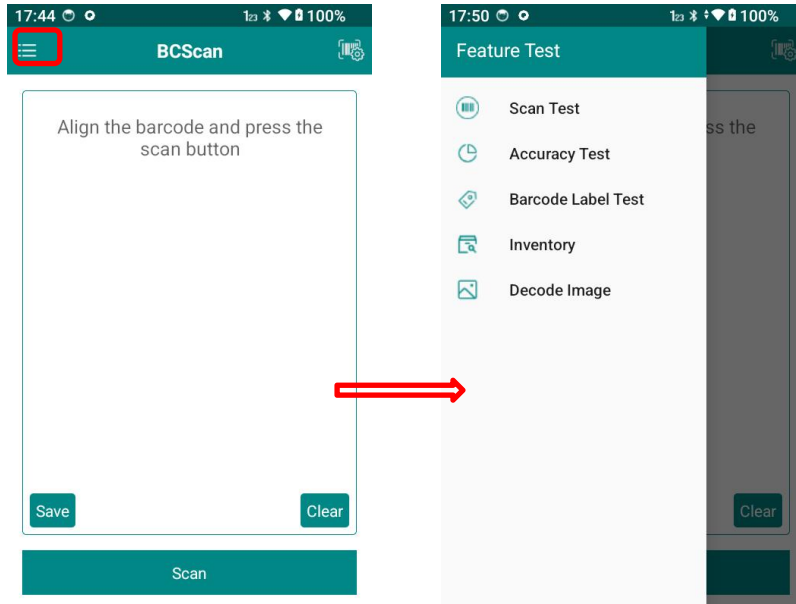
① Click Import Config to export the configuration, about the information of scanning dock and the model (engine) of scanning.

② Scan Mode setting, you can configure the Scan Mode, Decode Mode, etc. of the sweeping dock. Refer to 8.1 for configuration.



6.2.3 Feature Test

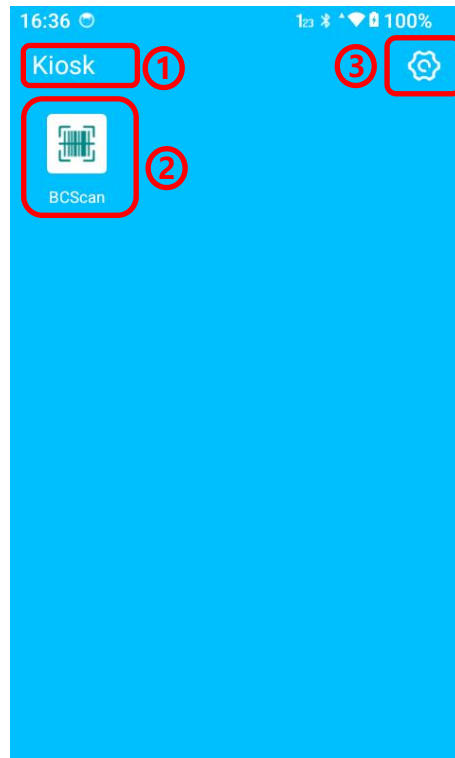
Click the upper right corner of the BCScan demo interface to enter Feature Test, you can perform Scan Test, Accuracy Test, Barcode Label Test, Inventory and Decode image test. (For details, please refer to *BCScan Code Scanning Software Operation Guide*)



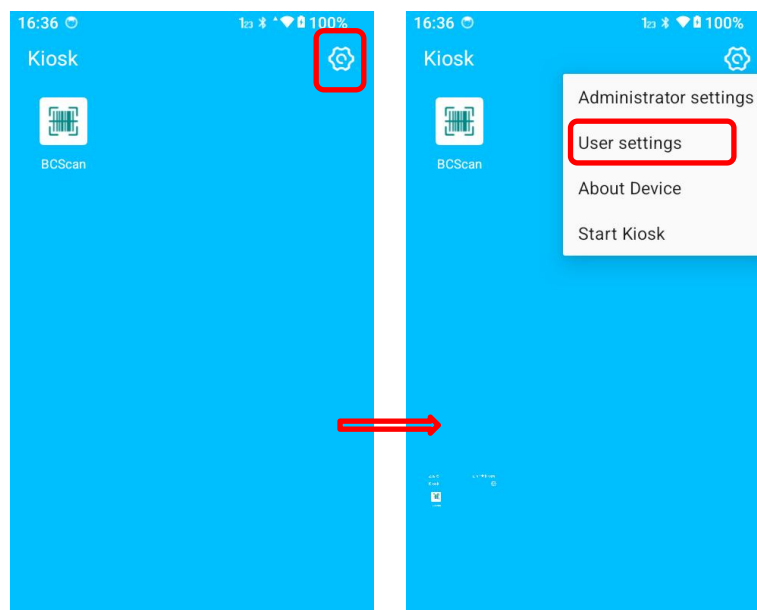
6.3 Kiosk

1) The current software allows you to manage employee's desktop applications, desktop names, employee actionable settings and more. Logging into the backend allows you to configure the administrator and exit the enterprise mode.

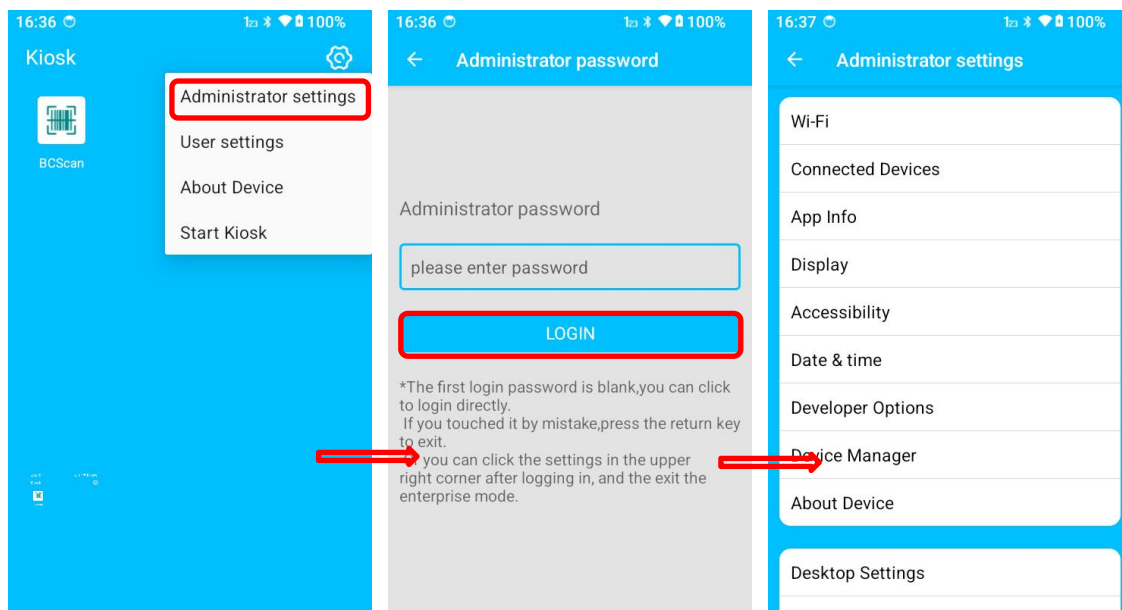
- ① The name of the software
- ② Application name and icon, other applications are also displayed in the current interface
- ③ Settings, including administrator settings and settings that can be operated by ordinary users.



2) User settings: settings that can be operated by ordinary users, and user setting privileges given by the administrator.

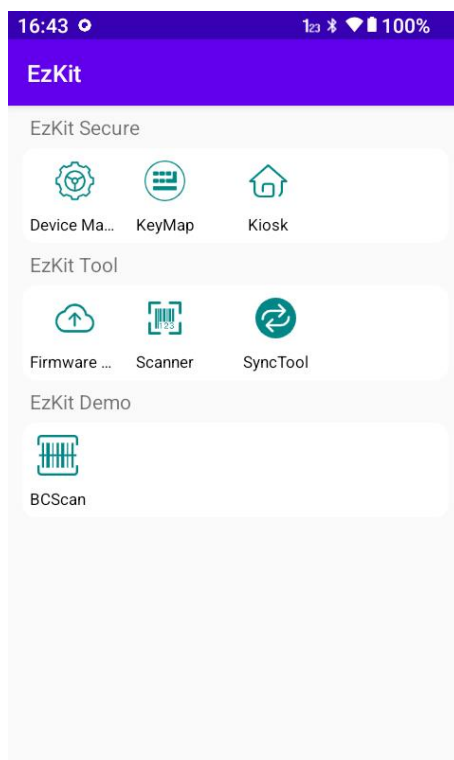


3) Administrator settings: click settings->click Administrator settings->enter password>click LOGIN, you can log in the background settings, detailed reference to the *Kiosk Operation Guide*.



6.4 EZKIT

EZKIT, the Enterprise Featured Tool has built-in featured settings, applications, and tools. Quick access to enterprise featured settings and software is available through EZKIT.



7 Settings

7.1 Network & internet

7.1.1 WLAN

7.1.1.1 Switch WiFi

Click the button to turn WLAN on and off. you can also turn it on and off by using the WLAN icon in the drop-down menu.



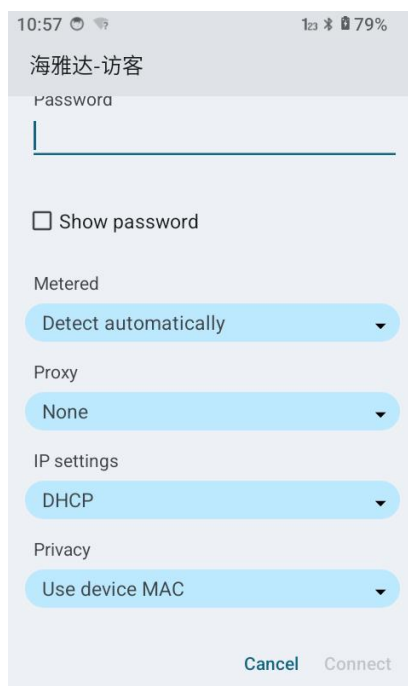
7.1.1.2 Connecting to WLAN

1) Click on the name of the WLAN you need to connect to and enter the correct password to connect.



2) You can also drop down Advanced options to configure Proxy, IP settings, and Privacy.

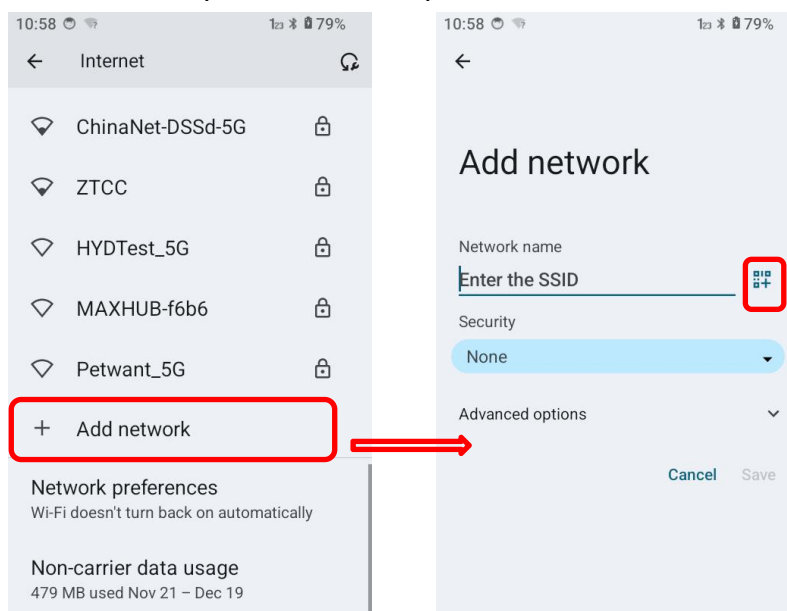
- Proxy: A proxy is a server or computer hosted elsewhere that acts as an intermediary between you and Web sites on the Internet. When you use a proxy, your Web request is not sent directly to the target site. The request first passes through the proxy, which then sends it to the target site on your behalf.
- DHCP: IP address randomly assigned by router.
- Static IP: IP addresses are related to the configuration of gateways and routers, and can be viewed within the router. The DNS system is like a vast address book that translates human-readable URLs into machine-readable IP addresses. In most cases, users can use the DNS server addresses provided by their ISP or use a public DNS service such as 8.8.8.8 or 1.1.1.1 provided by Google.
- Use device MAC: Each network device has a unique MAC address, which is used to identify and communicate in the network, and each network device has a unique MAC address, which is used to identify and communicate in the network.
- Use randomized MAC(default): Randomized MAC address generates a new address every time you connect to the network, thus avoiding being tracked. This approach effectively prevents users from being tracked by advertisers, marketers or government agencies and protects personal privacy.



7.1.1.3 Add network

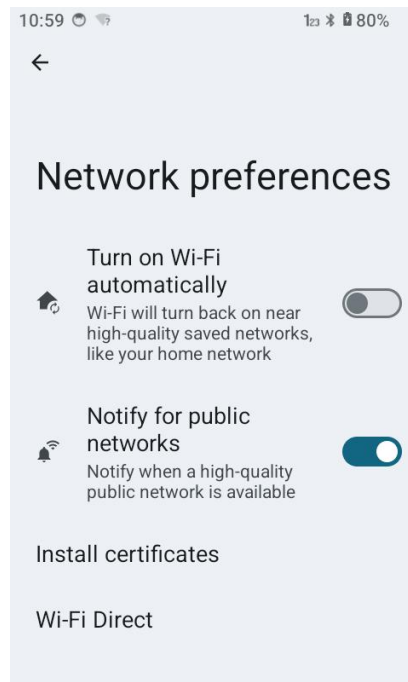
By adding networks you can find hidden WiFi. enter Network name, Security, Password to connect Network.

You can also add networks shared by other devices by QR code 6.1.1.4.



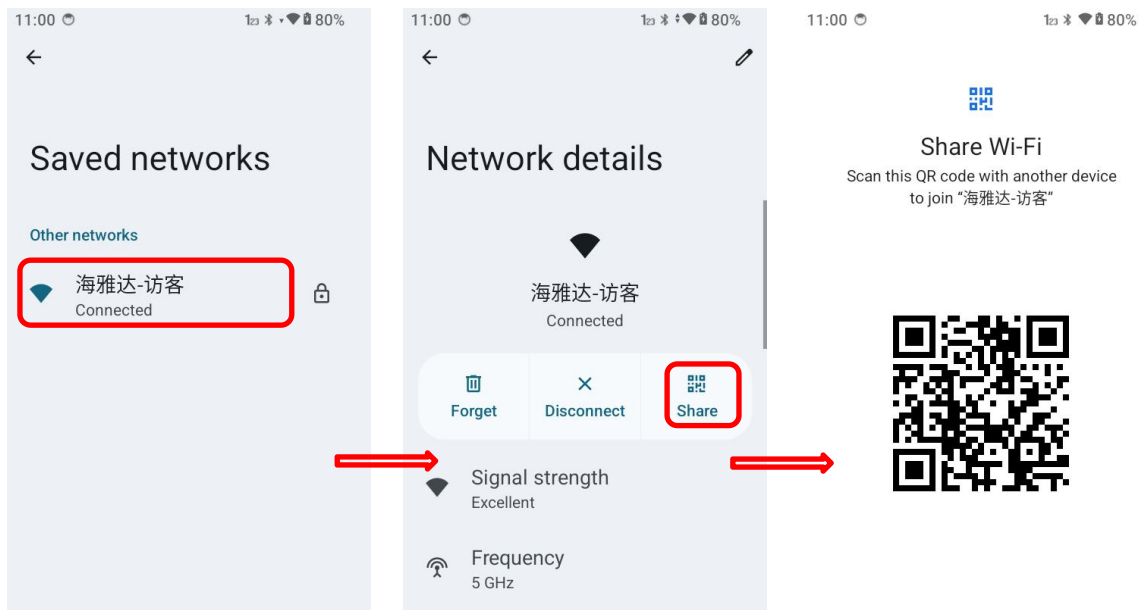
7.1.1.4 Network preferences

- 1) Turn on Wi-Fi: When turned on, the WLAN will be automatically turned back on when it is located near a saved high-quality network (e.g., home network or company network).
- 2) Notify for public: Turn on the system to notify you when there is a high quality public network nearby that you can connect to.
- 3) Install certificates: Install WLAN certificates, which is not required under normal circumstances. If your environment requires the use of digital certificates as the identity credentials of WLAN devices and wireless clients, you can install the digital certificates issued by your network administrator here.
- 4) Wi-Fi Direct: When you enable WLAN connectivity, you can use the WLAN Direct option to enable devices to connect directly to each other without having to go through an intermediary wireless access point.



7.1.1.5 Saved networks

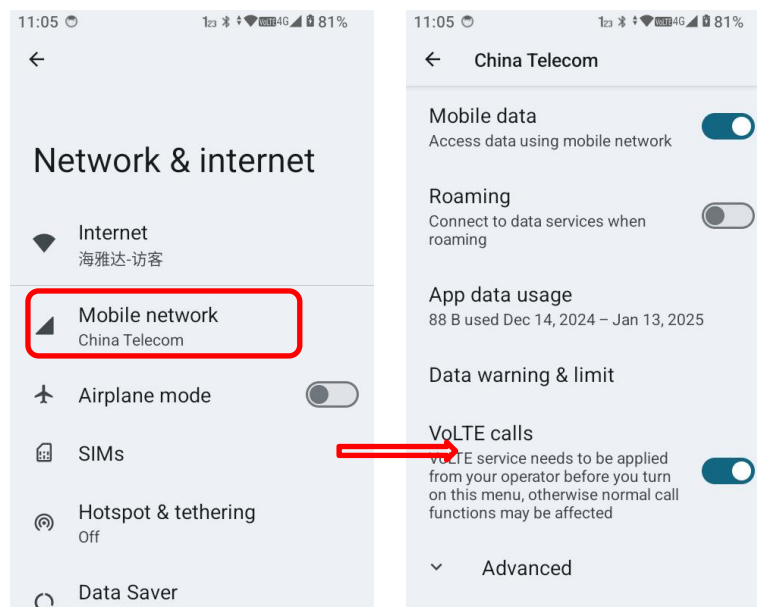
Here you can see the history of connected networks, as well as share networks, forget and disconnect networks.



7.1.2 Mobile network

When inserting a SIM card you can open the Mobile network settings and the carrier type will be displayed.

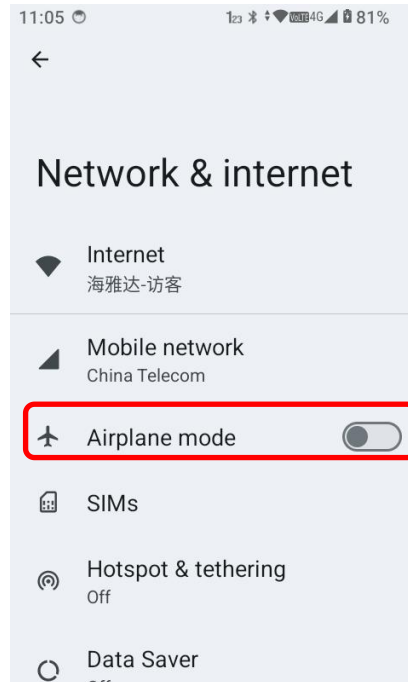
In Mobile network settings you can switch Mobile data on/off (you can also switch it on/off from the drop down menu), switch Roaming on/off, set Data warning & limit, switch VoLTE calls, set Advanced and so on.



7.1.3 Airplane mode

Tap to turn on Airplane mode. Entering Airplane mode will automatically disable WLAN connection, mobile data connection and Bluetooth connection.

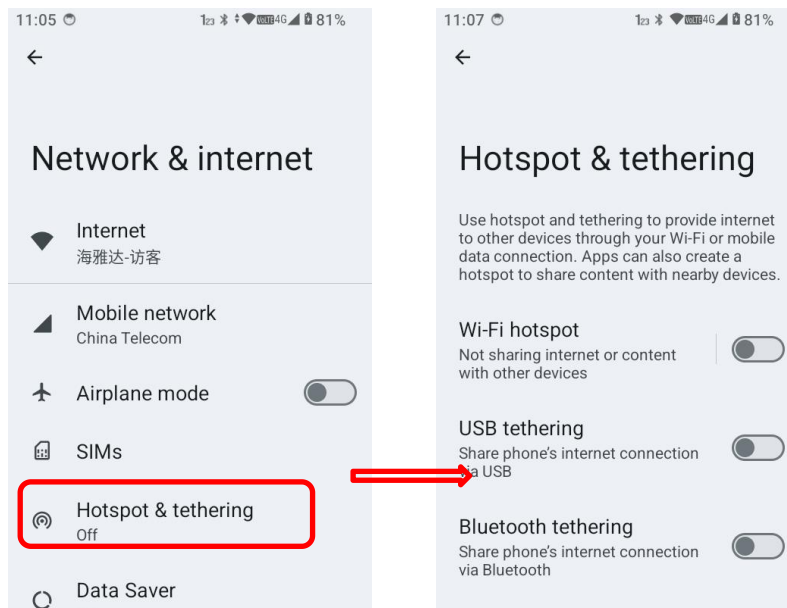
You can also turn Airplane mode on and off by pulling down the status.



7.1.4 Hotspot & tethering

Use Hotspot to provide internet to other devices through your Wi-Fi or mobile data connection. APP can also create a Hotspot to share content with nearby devices.

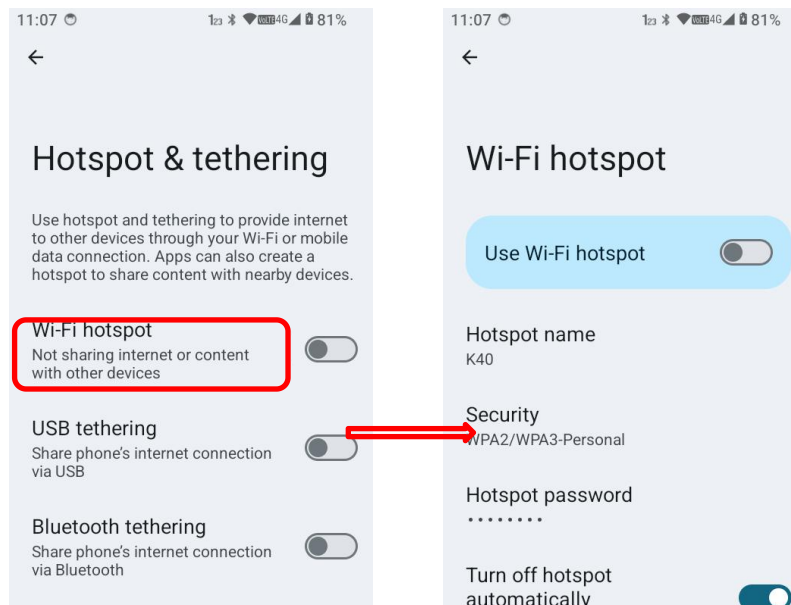
- Wi-Fi Hotspot: open WLAN Hotspot to share mobile Hotspot and WiFi Hotspot.
- USB Tethering: open USB Network Sharing, you can connect via USB cable to share the network to other computers and devices.
- Bluetooth tethering: open Bluetooth sharing, you can let other devices connect to the current network via Bluetooth.
- Ethernet tethering: Open Ethernet Network Sharing to share the device's current Ethernet network via data cable.



7.1.4.1 Wi-Fi Hotspot

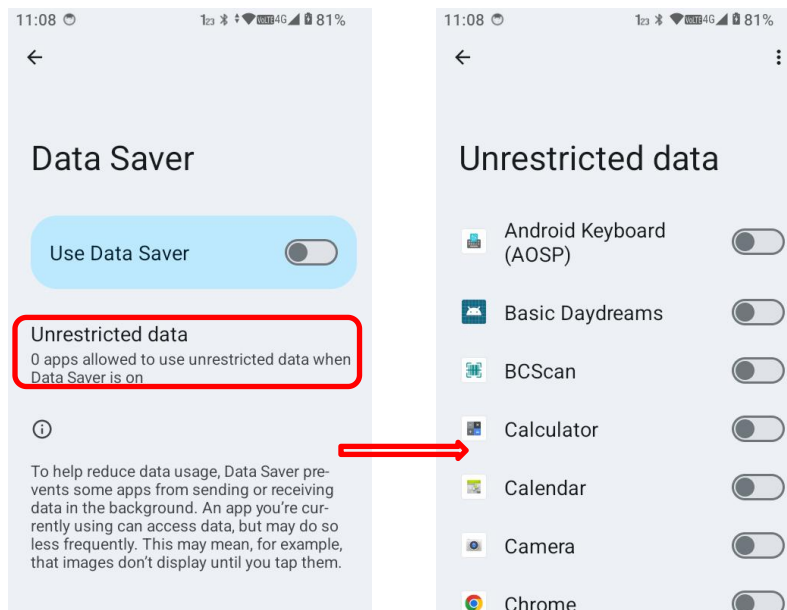
Click Wi-Fi Hotspot to enter configuration. Configure the Hotspot name, security, Hotspot password and other settings of the device Hotspot.

When the current device connection network is mobile network, the shared Hotspot is mobile Hotspot; when the current device is WLAN connection, the shared Hotspot is WLAN Hotspot.



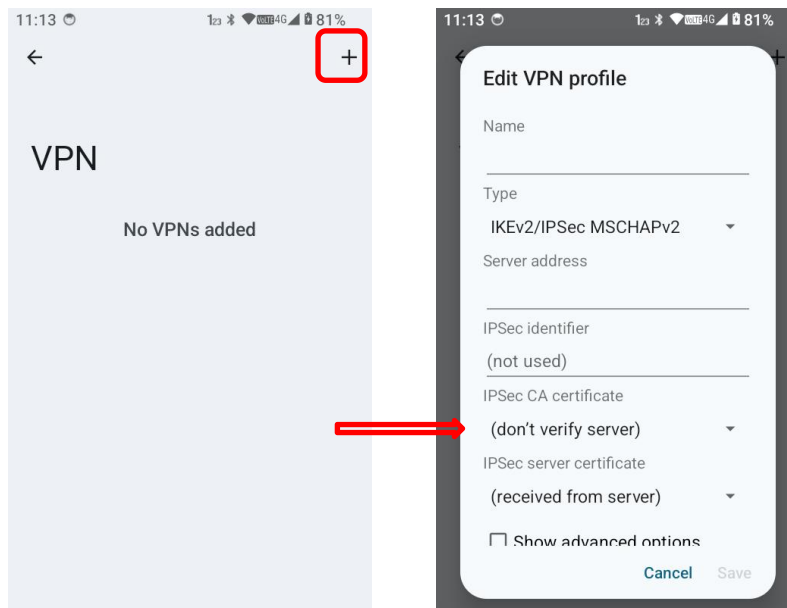
7.1.6 Data Saver

When you turn on the Traffic Saver, the system blocks certain applications from sending and receiving data in the background to reduce traffic consumption. You can set apps that are not subject to traffic limitations to bypass the traffic saver's restrictions.



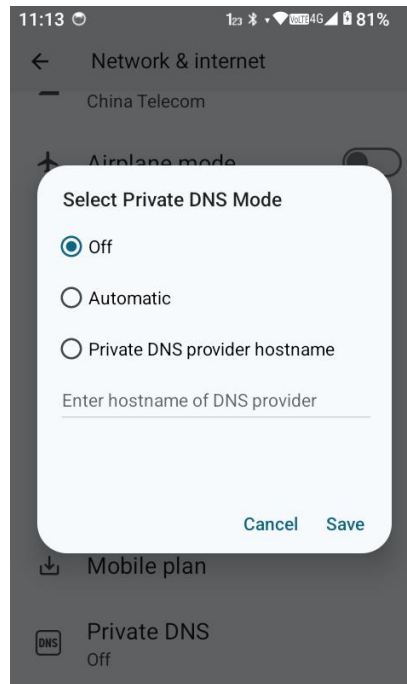
7.1.7 VPN

You can edit the VPN profile by using the Add button in the top right corner.



7.1.8 Private DNS

You can set your private DNS mode with this item.

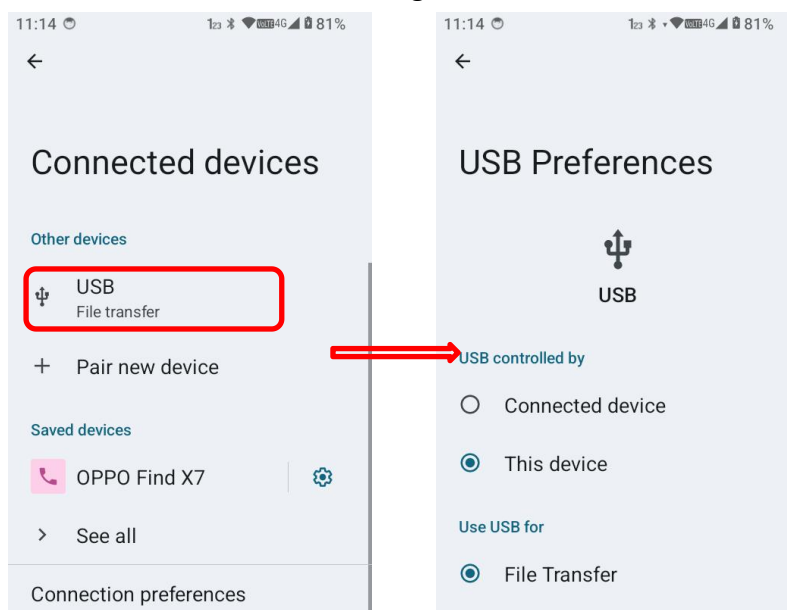


7.2 Connected devices

7.2.1 USB

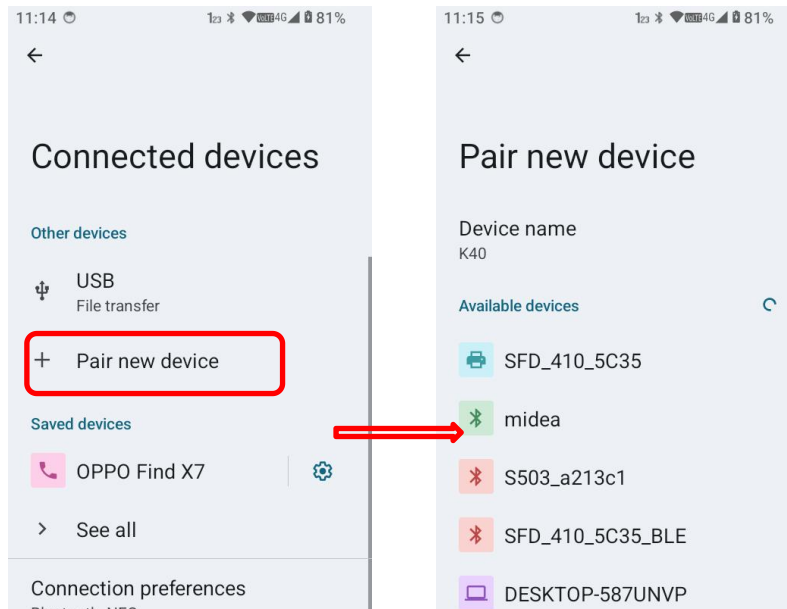
When the device is connected to the computer via the USB cable, the USB option will appear, click on it to enter, you can set the USB to be controlled by the connected device or this device.

You can choose between the following five USB uses: File Transfer; USB tethering; MIDI; PTP; No data transfer. computer to view and edit the device storage, select 'This devices'.



7.2.2 Pair new device

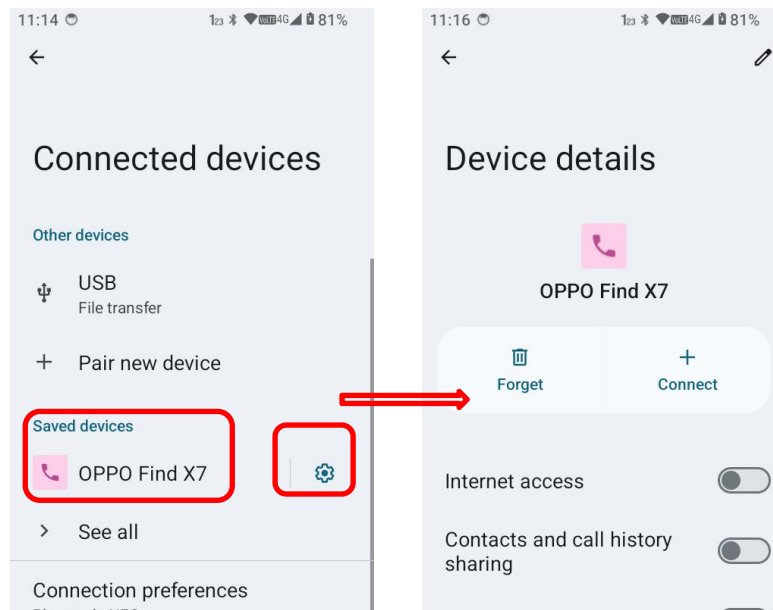
Clicking 'Pair new device' provides a quick way to turn on Bluetooth pairing mode. You can also change the Device name, which is used to display the name in the Bluetooth pairing interface with other devices.



7.2.3 Saved devices

Tap Saved devices to view the history of paired Bluetooth. Tap Settings button to change 'Device details' settings for any device.

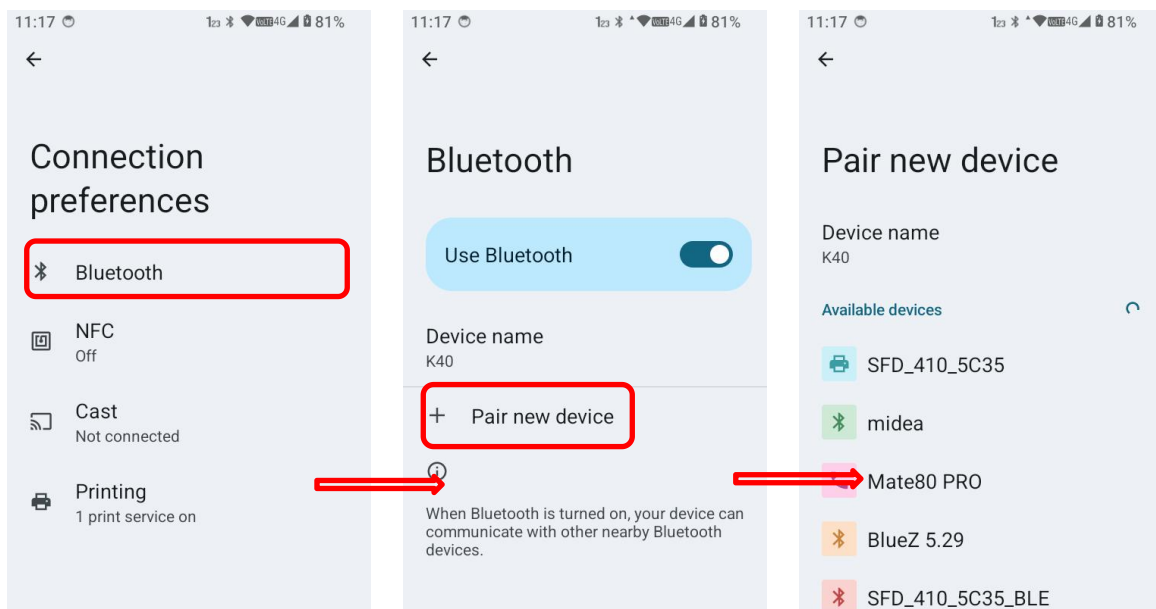
- Cancel Saved or Quick Connect Bluetooth
- Internet access for Bluetooth sharing within Hotspots and network shares 7.1.4
- Other settings about 'Contacts and call history sharing' and 'SIM Access'



7.2.4 Connection preferences

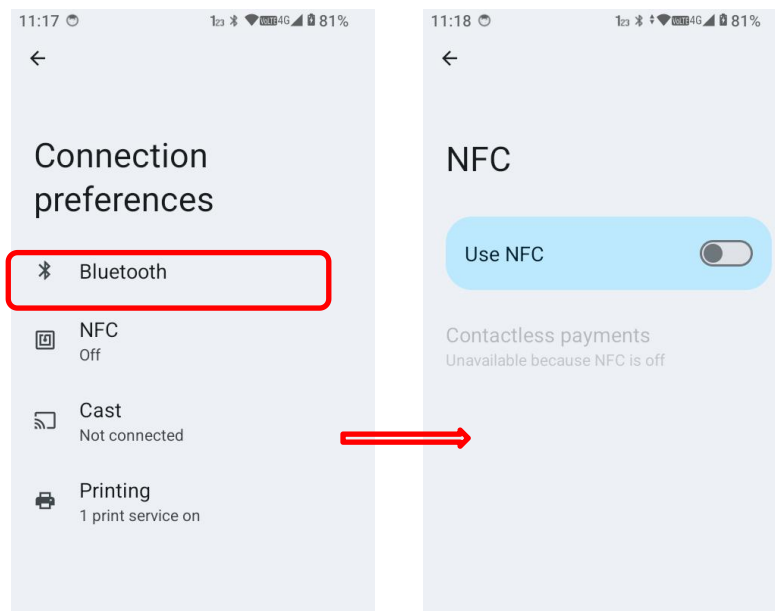
7.2.4.1 Bluetooth

Tap Bluetooth to enter the Bluetooth settings screen. After turning on Bluetooth, you can enter the new device pairing and nearby device matching. Bluetooth can also be conveniently switched on and off via the drop-down menu, and long press to quickly enter the 'Connected devices' interface.



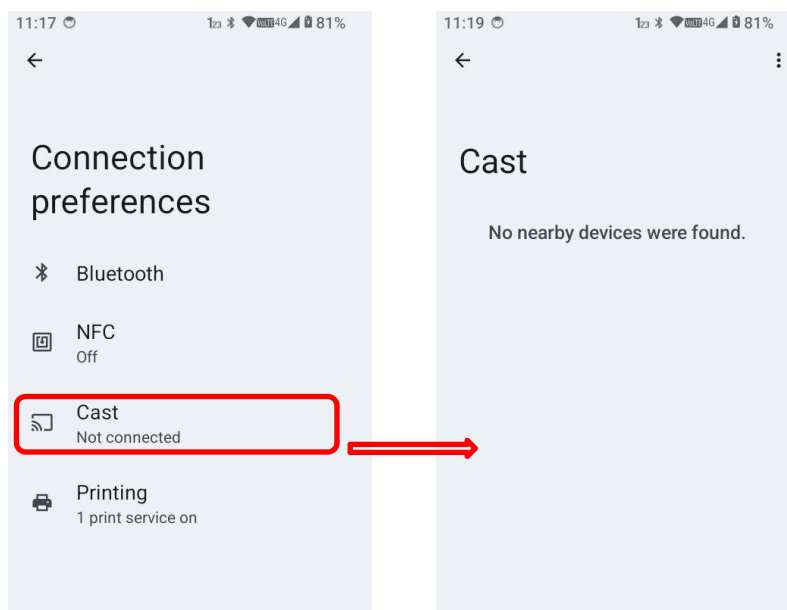
7.2.4.2 NFC

When turned on allows the phone to exchange data when it touches the NFC device. The device's NFC module is located on the back of the device near the camera and speaker. When exchanging data with other NFC devices, slowly move the NFC module on the back of the device closer to the NFC device that you need to exchange data with.



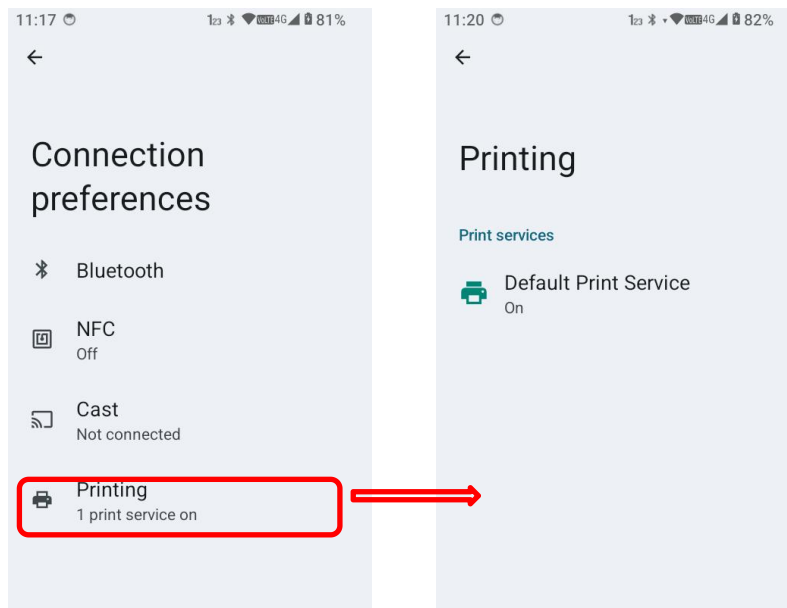
7.2.4.3 Cast

By connecting to a nearby screen casting device, you can project your device's screen display to other devices that support screen casting.



7.2.2.5 Printing

This screen allows you to turn print services on or off and search for recognizable printers in range for connection.

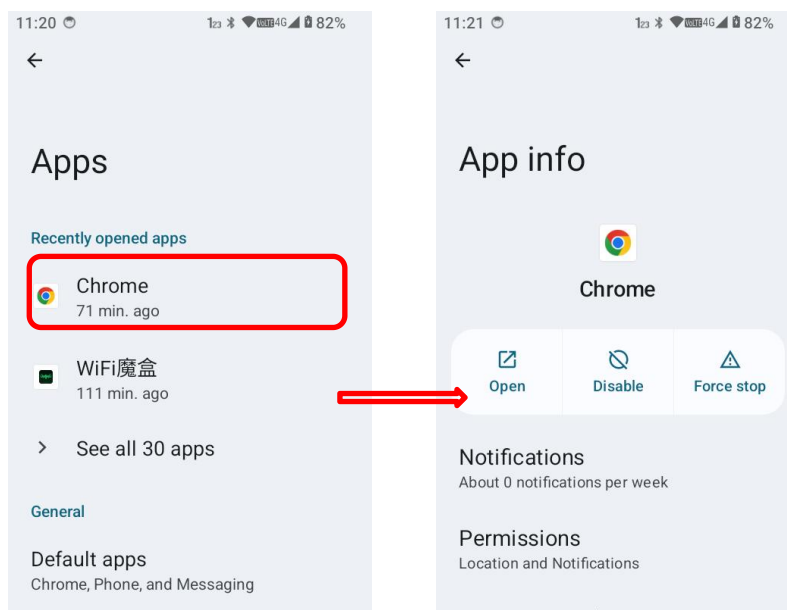


7.3 Apps

7.3.1 App info

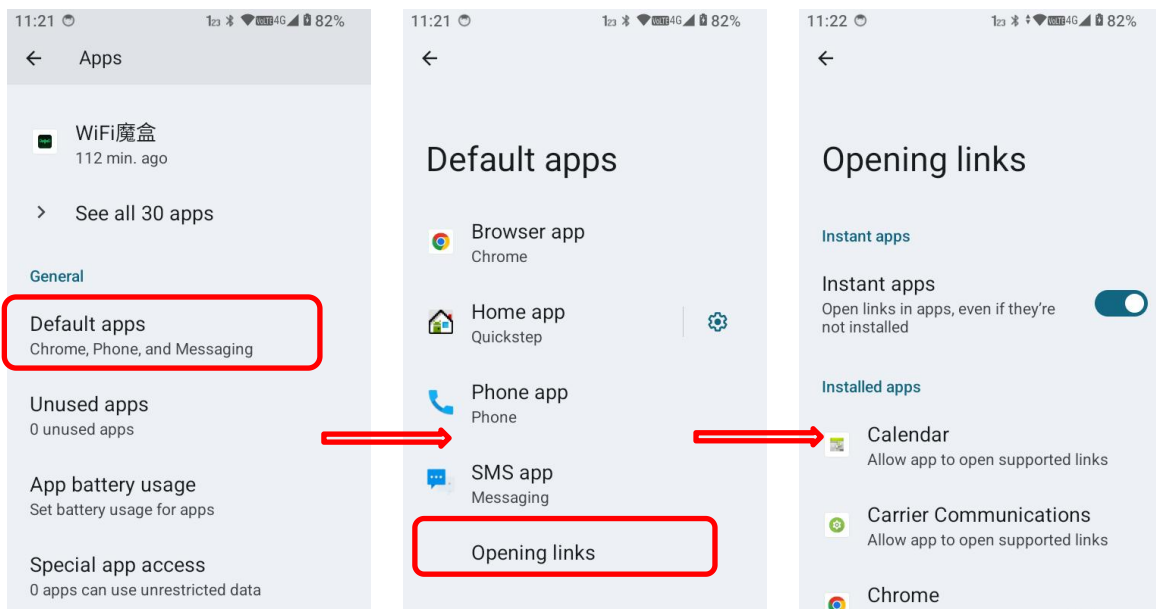
Select any app you need to view within the app interface to enter the app information of the current app.

You can set all the information related to the app within the app information: open/Force stop/Uninstall, Notifications, Permissions, Storage&cache, etc.



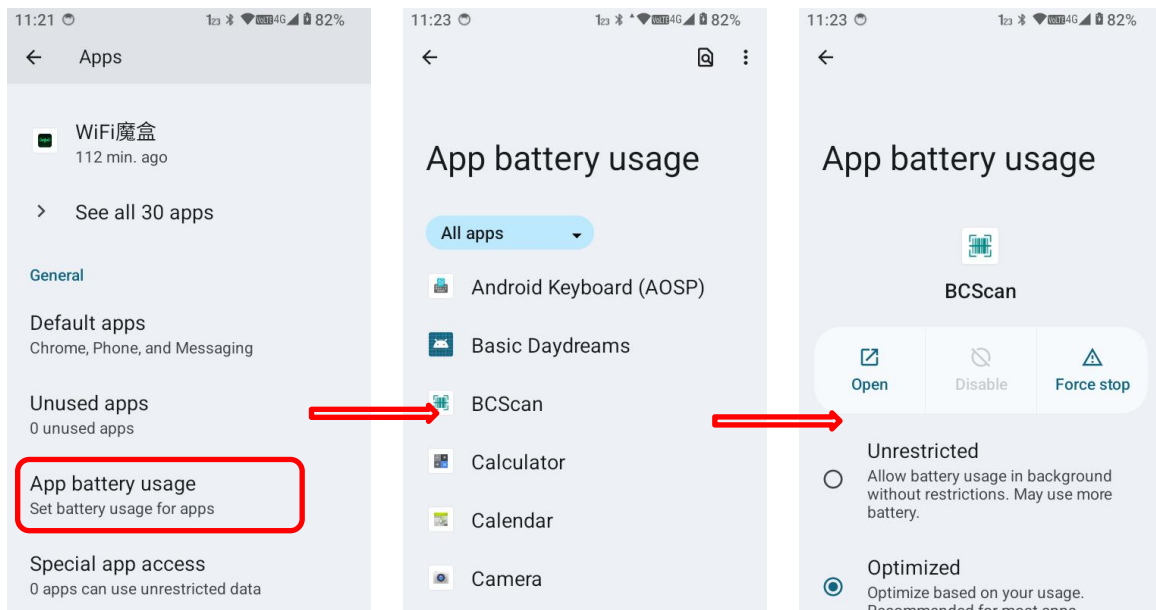
7.3.5 Default apps

- 1) Phone app: phone app defaults to the system factory phone app.
- 2) SMS app: SMS app defaults to the system factory SMS app.
- 3) Browser app: Browser app defaults to Chrome, you can also download other browsers and set a new browser as the default mode.
- 4) Home app: Home screen app, you can choose Enterprise Desktop and Quickstep.
- 5) Opening links: Device supports no installation apps, you can open the links directly in the apps, no need to download and install APK.



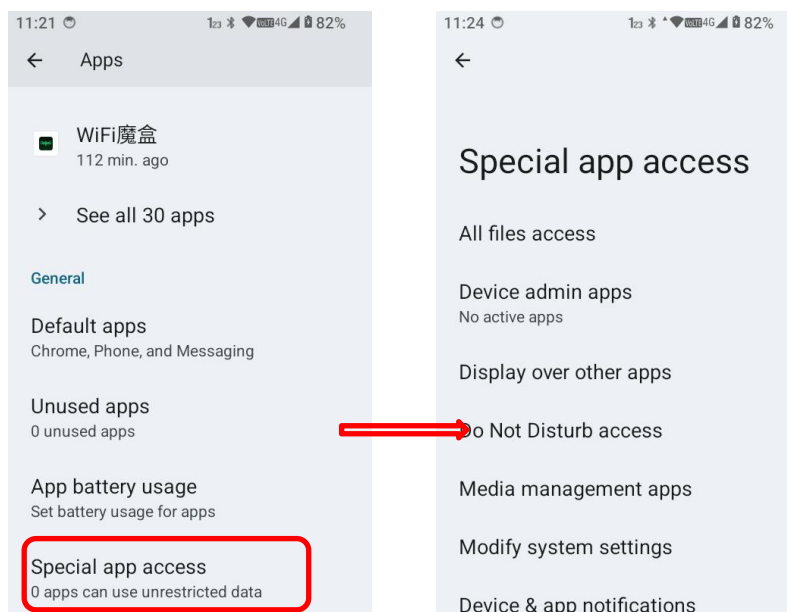
7.3.6 App battery usage

You can set the battery usage of all applications, the settings can be selected: Unlimited, Optimized, Restricted. Some system factory software cannot be changed arbitrarily.



7.3.7 Special app access

Special application permissions can be set for All files access, Device admin apps, Do Not Disturb access, Media management apps, and more. Scroll down to see all system permissions.

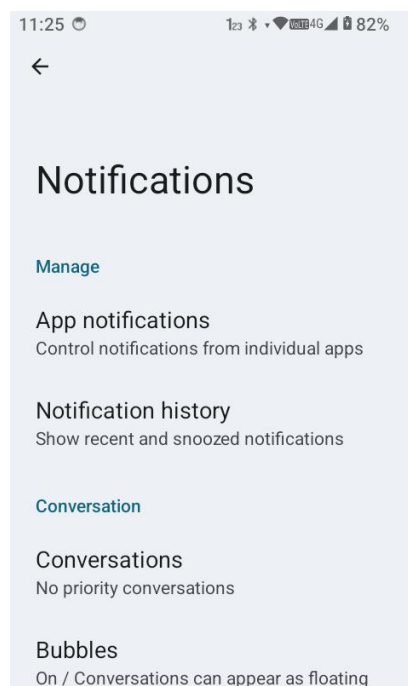


7.4 Notifications

You can device about notifications here, including the following:

- 1) App notifications: control notifications from each app.

- 2) Notification history: shows recent and delayed notifications.
- 3) Conversations: Priority conversations and modified conversations are displayed here.
- 4) Bubbles: Some conversations will be shown as floating icons on other apps.
- 5) Device & app notifications: You can click to grant permission to use app notifications.
- 6) Notifications on lock screen: you can choose to show default dialogs and muted dialogs/hide muted dialogs and notifications/do not show any notifications.
- 7) General: Set Do Not Disturb, Flash notifications, Wireless emergency alerts and so on.

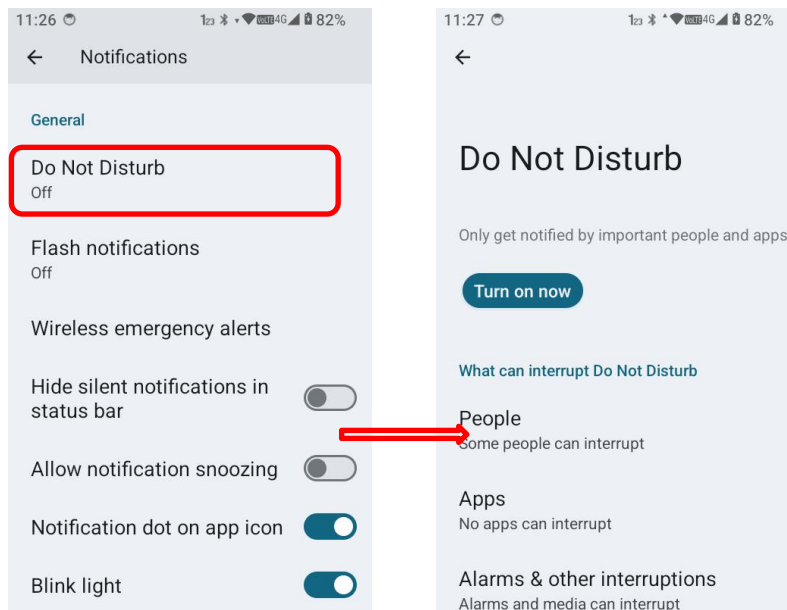


7.4.1 Do Not Disturb

Enable/disable Do Not Disturb Mode, an icon appears in state bar when Do Not Disturb Mode is turned on, and when it is turned on, you will only receive notifications from important contacts and important apps.

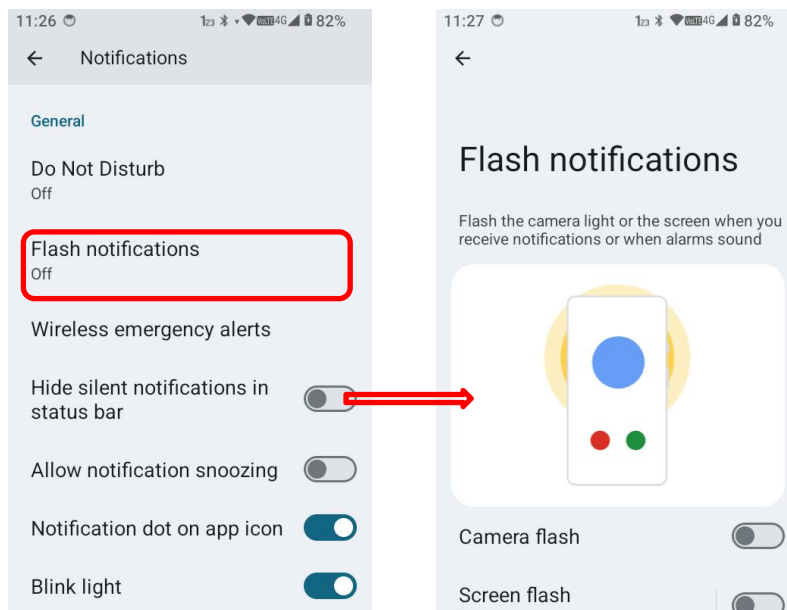
Exceptions to Do Not Disturb mode: Supported alerts for contacts, apps, alarms, media, etc. can be set.

General: Schedules (time to turn on Do Not Disturb mode); Duration for Quick Settings; Display options for hidden notifications.



7.4.2 Flash notifications

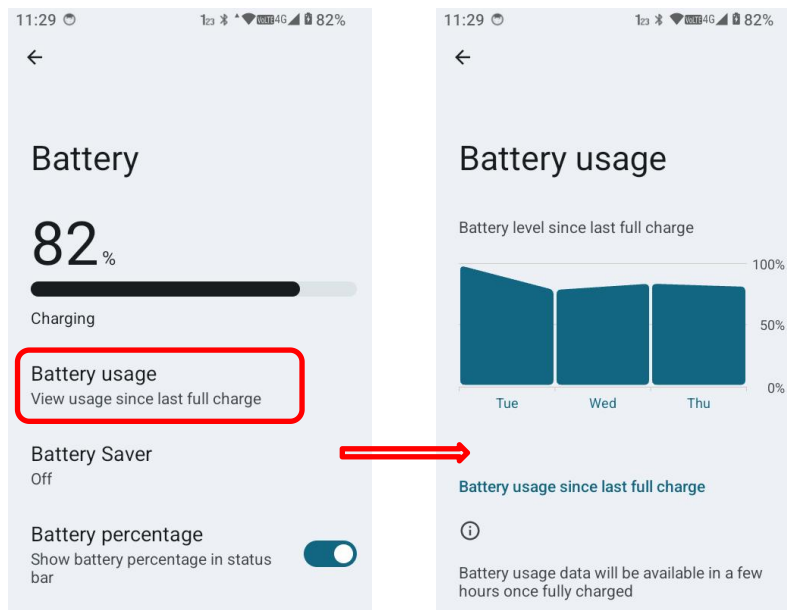
When you receive a notification or the alarm goes off, you can turn on the camera diffuser light or screen blinking. If you are sensitive to light, use the blinking notification feature with caution.



7.5 Battery

7.5.1 Battery usage

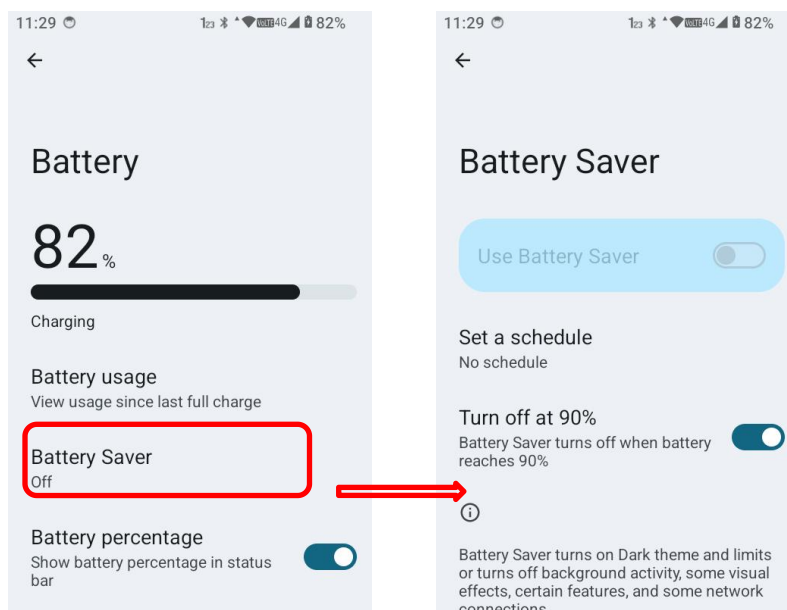
You can view the current power level of the device, and you can also view the last charging time and power level by battery usage.



7.5.2 Battery Saver

You can turn on the power saving mode option on this page. The power saving mode will turn on the dark color theme and turn off or limit background activities, some visual effects and other functions, such as voice assistant, to save power consumption.

- 1) Set a schedule: You can set any time to turn on the power saving mode;
- 2) Turn off at 90%: Turn off the power saving mode automatically when the battery reaches 90% after clicking on it.



7.5.3 Battery percentage

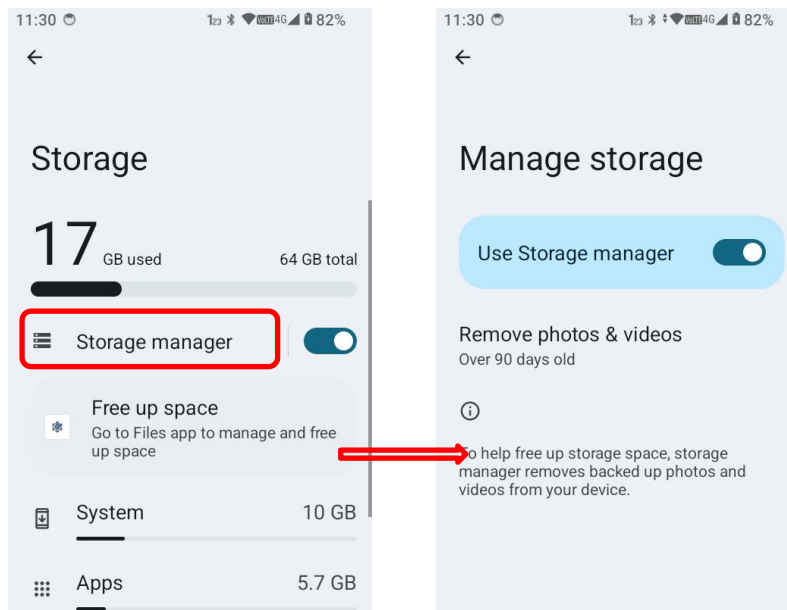
Open it to view the battery percentage in the status bar. Battery percentage can also be conveniently viewed by pulling down the status bar.



7.6 Storage

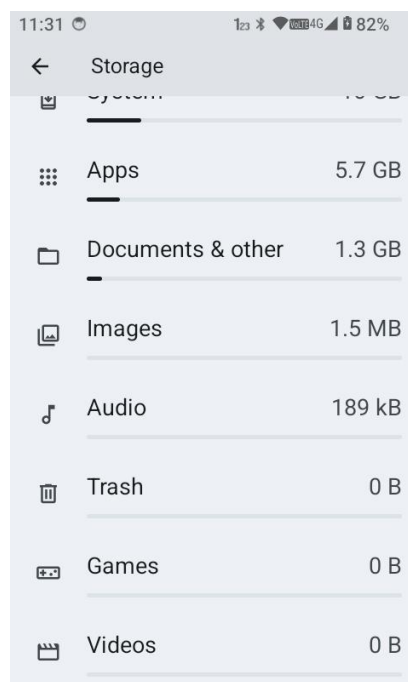
7.6.1 Storage manager

When you turn on Storage Space Manager, your Storage Space Manager automatically removes backed up photos and videos from your device to free up storage space. You can remove photos and videos based on the following times: more than 30 days / more than 60 days / more than 90 days.



7.6.3 Other storage management

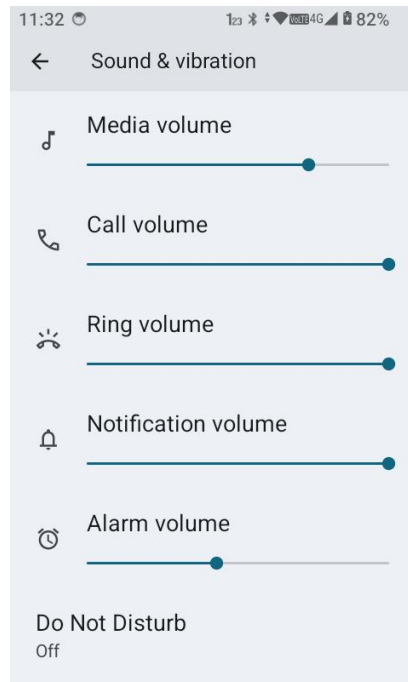
You can open apps, documents and other files, pictures, audios, videos, etc. through file management to clean them up, and other apps to free up memory and get back more storage space.



7.7 Sound & settings

7.7.1 Sound

You can increase or decrease the Media volume, Call volume, Ring volume, Notification volume and Alarm volume by sliding. when adjusting the volume, there will be a ringtone alert, and you can adjust the appropriate volume by the size of the alert.

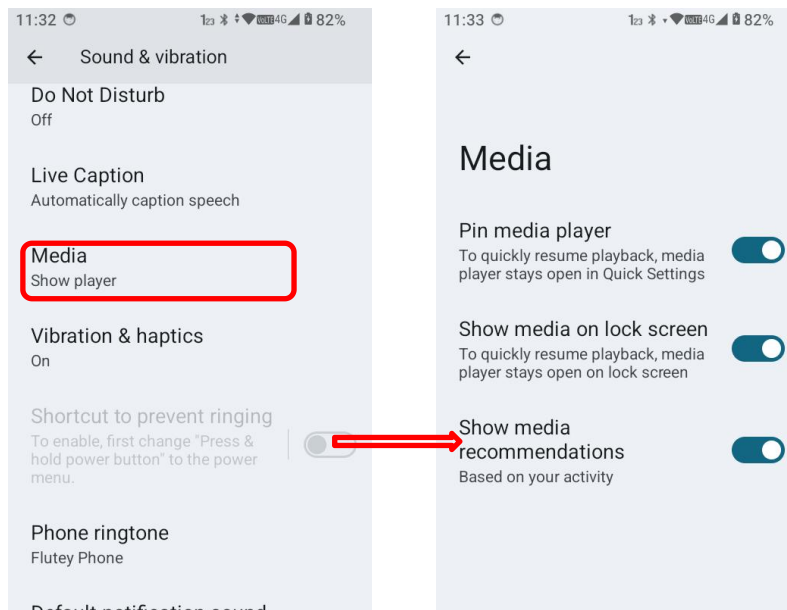


7.7.2 Media

Pin media player: To facilitate your quick resumption of playback, the media player is kept on in the 'Quick Settings' summary.

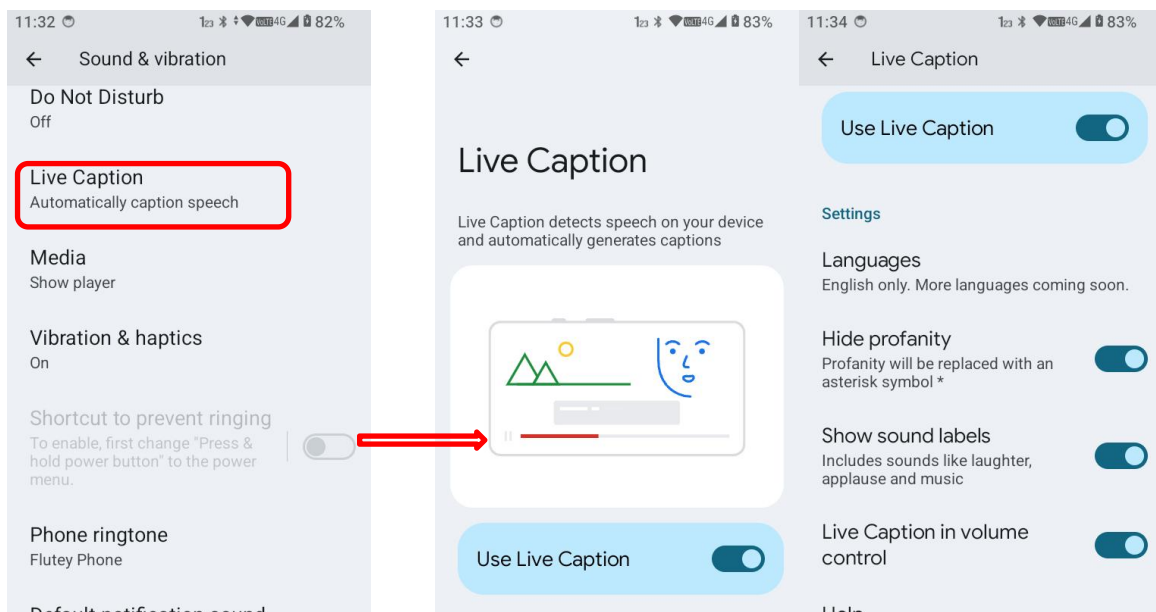
Show media on lock screen: To facilitate your quick resumption of playback, the media player will remain open on the locked screen.

Show media: Suggests appropriate content to show based on your activity.



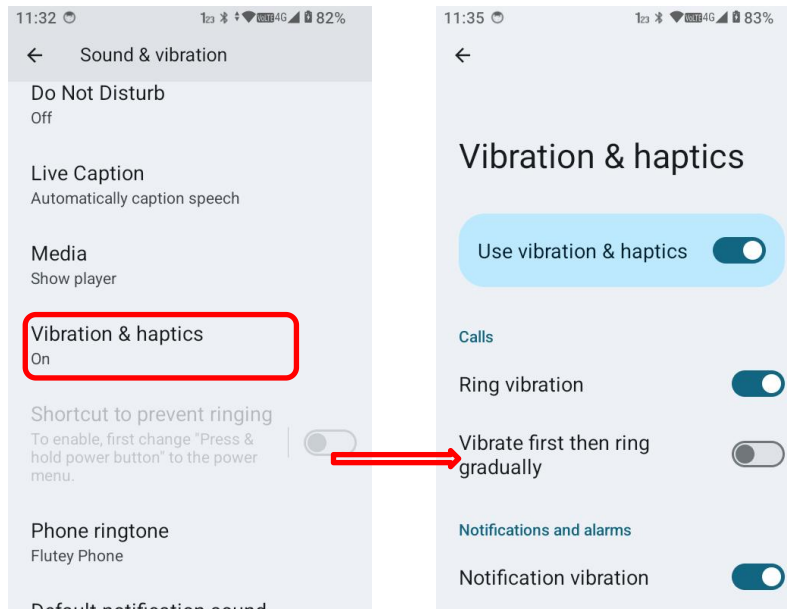
7.7.3 Live Caption

When real-time subtitles are turned on, the screen automatically detects the speech content on the device and generates subtitles. Currently the subtitle function only supports English content. You can also set Hide profanity, show sound labels, and Live Caption in volume. To move a caption, touch and hold the caption and drag it up or down. To expand the caption, tap and hold the caption twice. Note that turning on live captioning will increase power consumption.



7.7.4 Vibration & haptics

Tap to switch on/off all vibration and tactile feedback. You can also switch on/off Ring vibration/Vibrate first then ring gradually, notification and alarm vibration, tactile feedback, and media vibration.



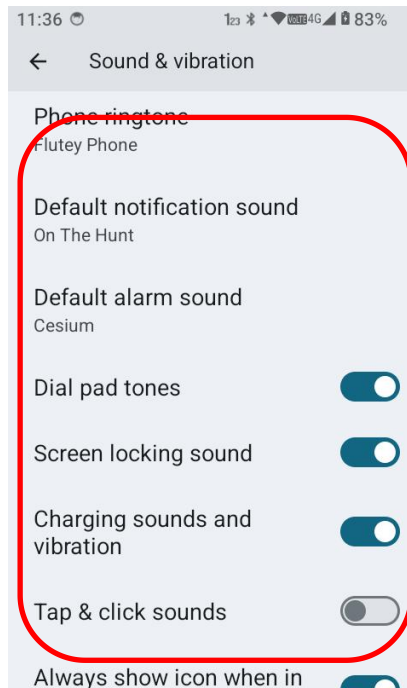
7.7.5 Ringtones and tones

Set Phone ringtone, when switch 'Media volume' you can check whether the ringtone is set or not.

Set Default notification sound, when switch 'Notification volume' you can check whether the ringtone is set or not.

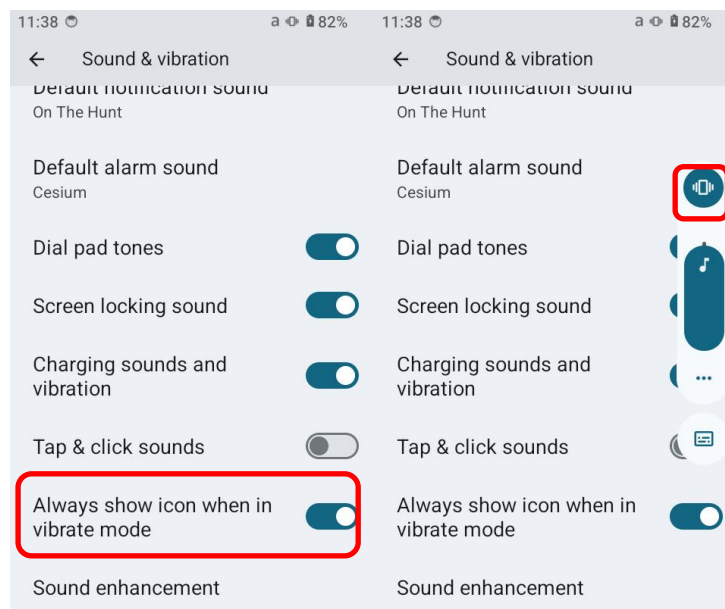
Set Default alarm sound, when switch 'Alarm volume', you can check whether the ringtone is set or not.

You can also switch Dial pad tones, Screen locking sound, Charging sounds and vibration, Tap&click sounds.



7.7.6 Always show icon when in vibrate mode

Turn on 'Always show icon when in vibrate mode' when the device's mode goes from volume mode to vibrate mode. Turning on vibrate mode will show the vibrate icon in the status bar.

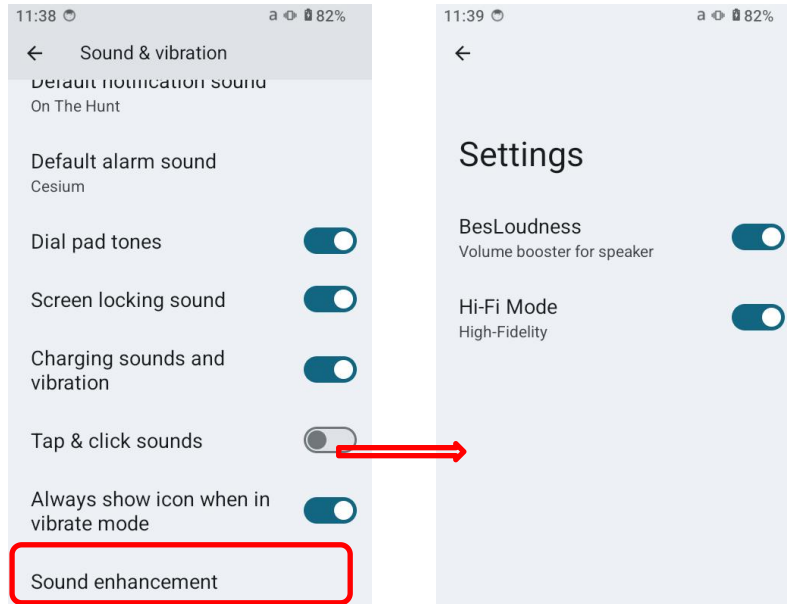


7.7.7 Sound enhancement

BesLoudness: Sound Booster is an extension that allows you to increase the sound of your system. It

can increase the volume level up to 600%. Use this volume booster extension to make loud sounds from your browser. If your songs on Spotify, Deezer or Soundcloud or videos on YouTube, Vimeo or Facebook are too quiet even when turned up to the max, Volume Booster can help. With our Volume Booster, you can increase the volume up to +600%.

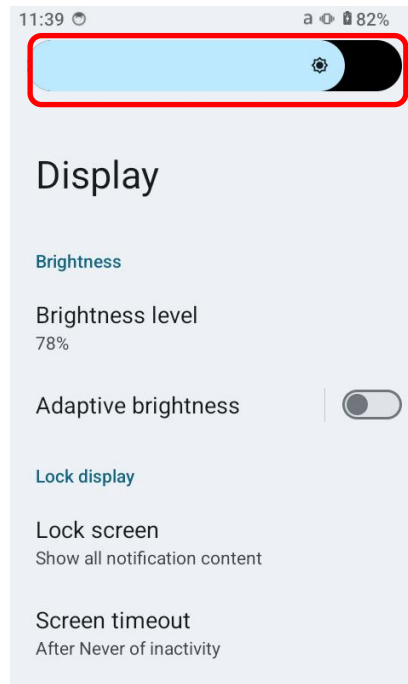
Hi-Fi Mode: Highly restores sound or maximizes playback close to the original.



7.8 Display

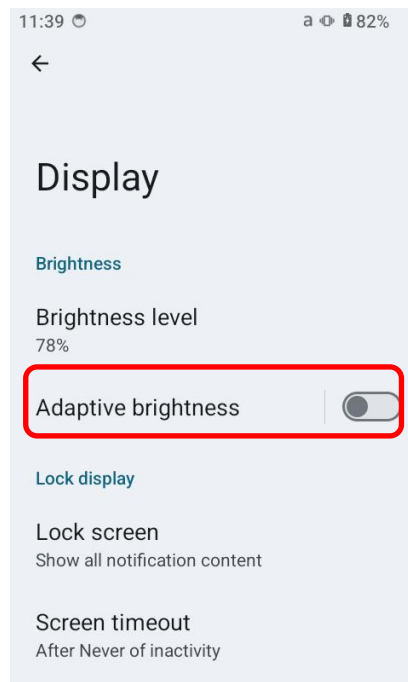
7.8.1 Brightness level

Modify this item to change the screen display brightness, you can also adjust the screen brightness in the drop-down status bar.



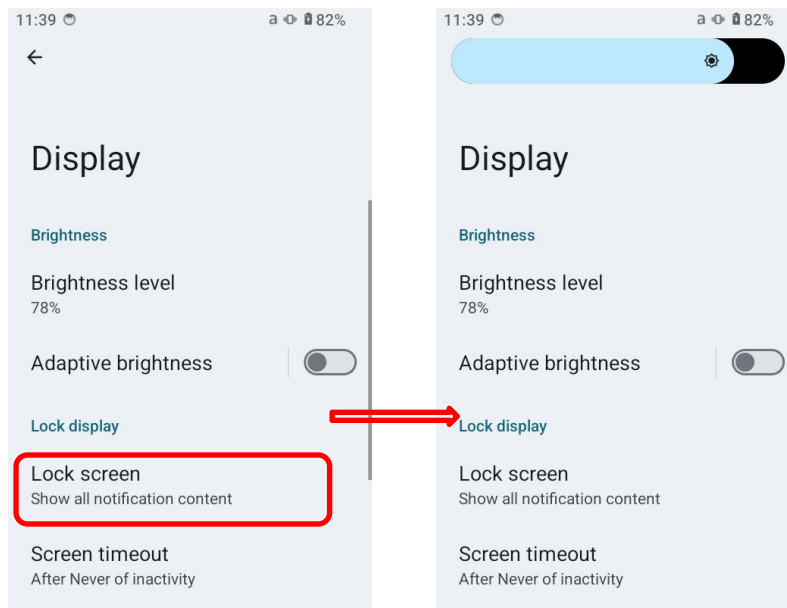
7.8.2 Adaptive brightness

When turned on, the brightness will automatically adjust with the environment. When the environment is bright, the screen brightness is high; when the environment is dark, the screen brightness is low.



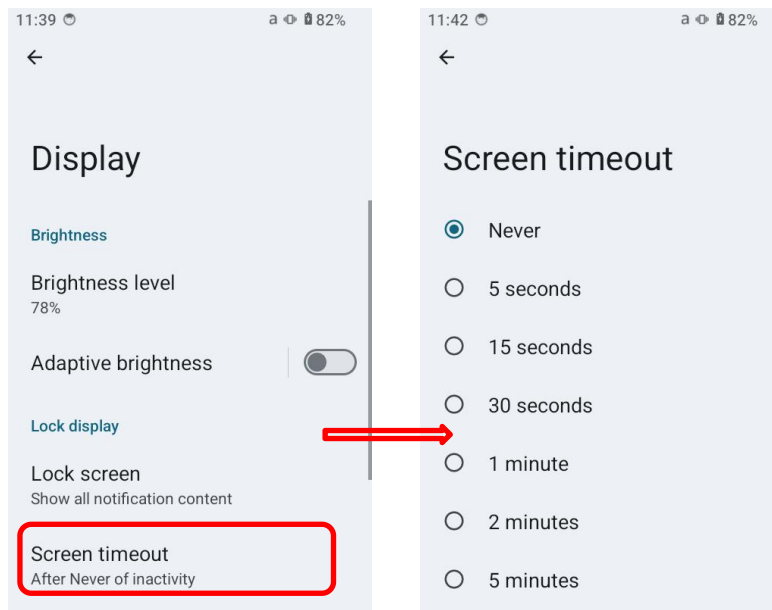
7.8.3 Lock screen

- 1) Privacy: Show all notifications/do not show notifications at all.
- 2) Add text on lock screen: You can add text by yourself.
- 3) Double-line clock: If the alarm clock is displayed in double line, you can turn it on to display.
- 4) Wake screen for notifications: When the device receives a notification, the screen will be turned on from the off state.



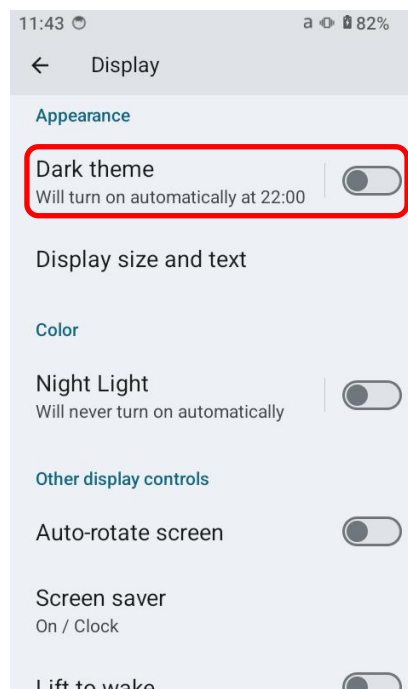
7.8.4 Screen timeout

You can set the time for the screen to go off, and you can set the duration according to your personal needs. When Screen Sense is on, the screen will not turn off when you are looking at it.



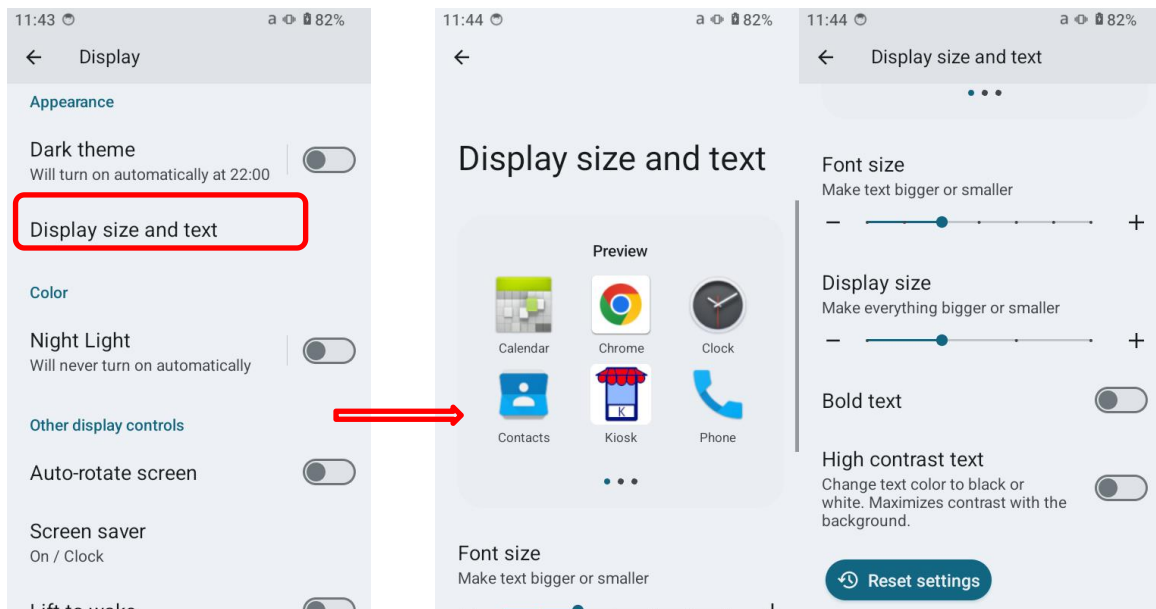
7.8.5 Dark theme

You can always turn on the dark theme by changing the default light background to dark. You can also set a scheduled time to automatically turn on the dark theme, and the system will automatically turn on the dark background during the time period you specify. Third-party applications need to support dark theme to change the theme color with your settings here.



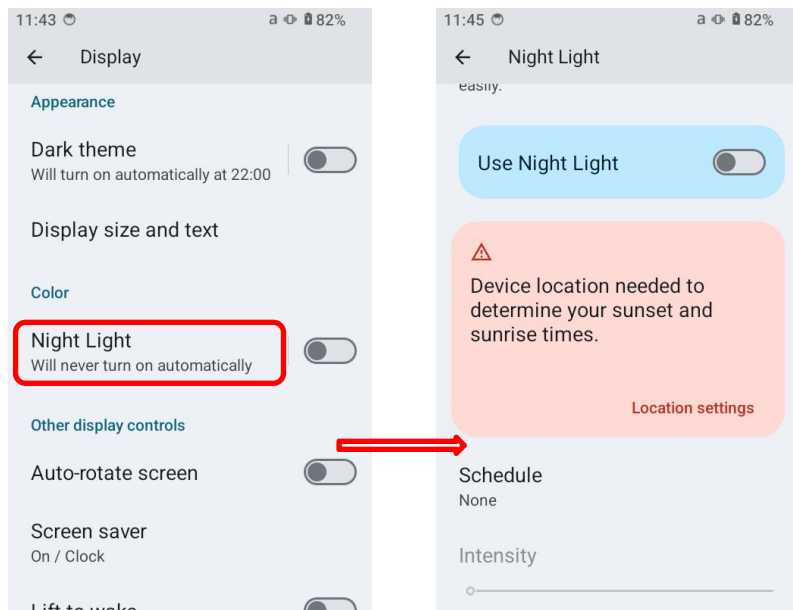
7.8.6 Display size and text

- 1) Font size: you can zoom in and out of the text size, the zoomed display effect can be viewed in the preview box above.
- 2) Display size: you can reduce or enlarge the content on the screen. Please note that after shrinking or enlarging, the position of some applications on the screen may change.
- 3) Bold text: Bold text content.
- 4) High contrast text: change the text color to black or white to make it contrast with the background.
- 5) Reset settings: Reset the current interface settings, reset the display and text preferences to the original state of the phone.



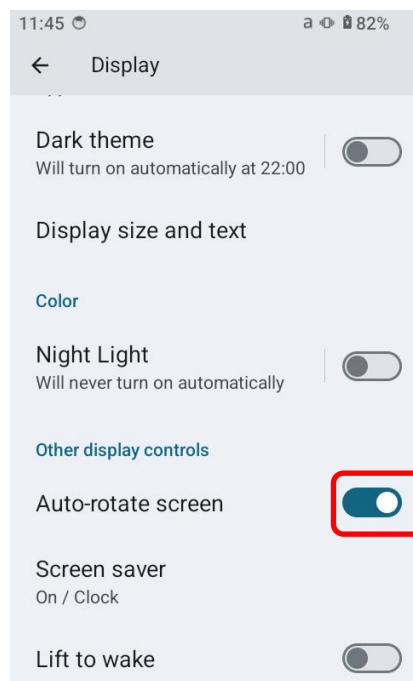
7.8.7 Night Light

Turning on eye protection mode changes the color of your screen to amber, making it more comfortable to view the screen or read text in dimly lit environments and helping you fall asleep. You can also set the time and intensity of the eye protection mode to turn on automatically, and the system will automatically turn on the eye protection mode for a specified period of time according to the time you set.



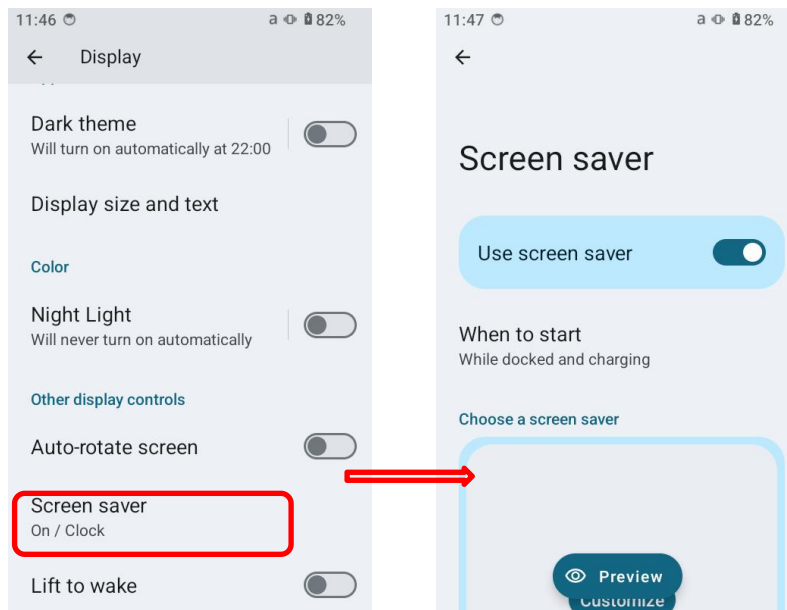
7.8.8 Auto-rotate screen

Turn on auto-rotate screen and the system will automatically rotate when you hold the screen horizontally and revert to the vertical screen when you hold the screen vertically. Auto-rotate improves your possibilities for more operations.



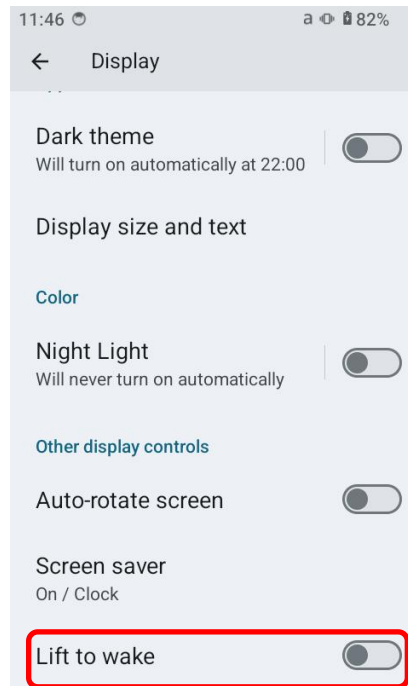
7.8.9 Screen saver

When you turn on the screensaver, two selectable screensaver states will appear on the interface, clock mode and kaleidoscope mode, and you can scroll down to preview the effect image of the two screensaver states. You can also set the time when the screensaver is enabled, when charging or when plugging into the dock to charge, you can know whether charging is enabled or not through the screensaver.



7.8.10 Lift to wake

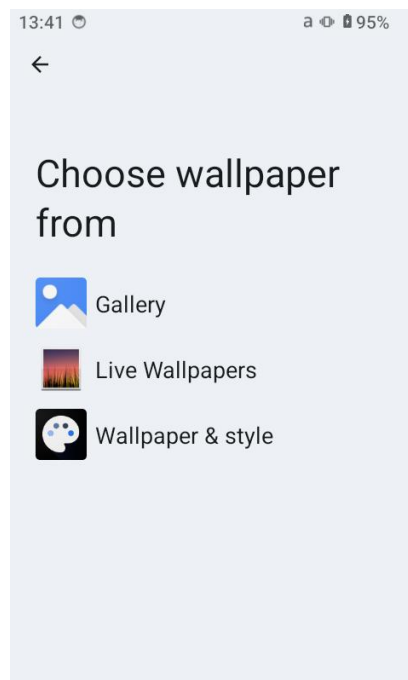
When the device is placed on the desktop in hibernation, the screen automatically lights up when you pick up the device. Quickly check the time and notifications without having to manually press the power button, improving the ease of use of the device.



7.9 Wallpaper

Live Wallpapers: You can set it through Xunfei Input Method or you can set it by yourself.

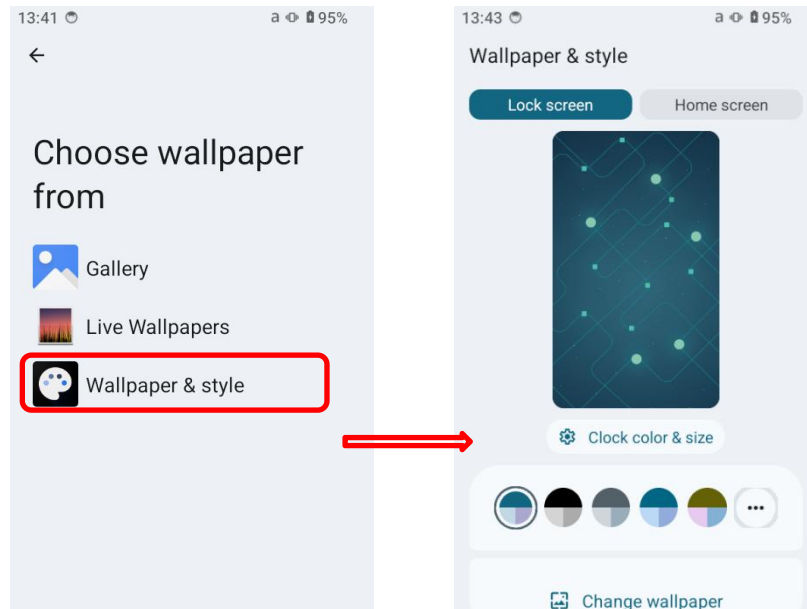
Gallery: You can set it as wallpaper through the pictures in the gallery.



7.9.1 Wall paper & style

Set the wallpaper for the lock screen and home screen from sources such as wallpapers on your device, animated wallpapers or my photos.

Also change the clock color and size, change the theme color, set lock screen notifications and more lock screen options.



7.10 Accessibility

Display size and text: quick access to the display size and text settings within the display, settings can refer to 7.8.6.

Vibration & haptics: Refer to 7.7.4 for setting.

Live Caption: Refer to 7.7.3 for setting.

Accessibility shortcuts can be set in 7.10.1.3.

7.10.1 Downloaded apps

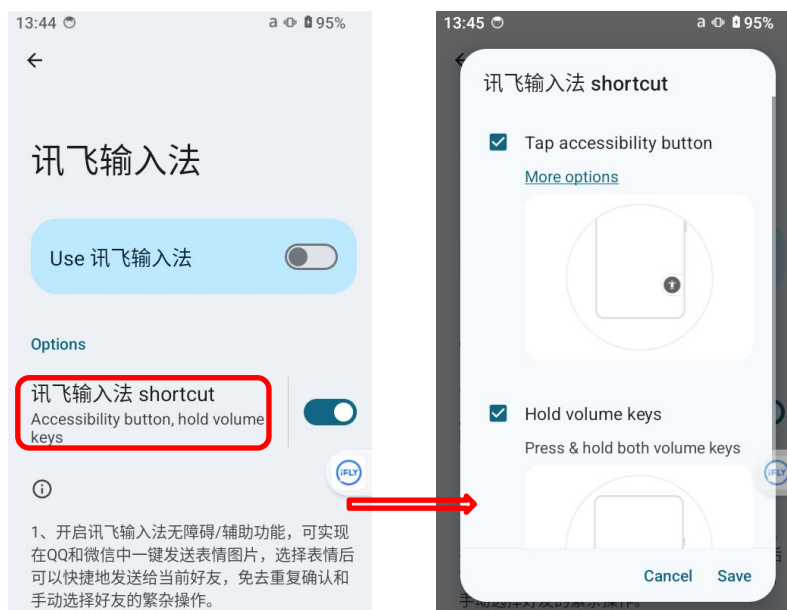
7.10.1.1 switch '讯飞输入法'

Enter '讯飞输入法', you can switch the input method by tapping Use '讯飞输入法'. You can also switch on/off the input method conveniently by using the accessibility button and holding down both volume keys.



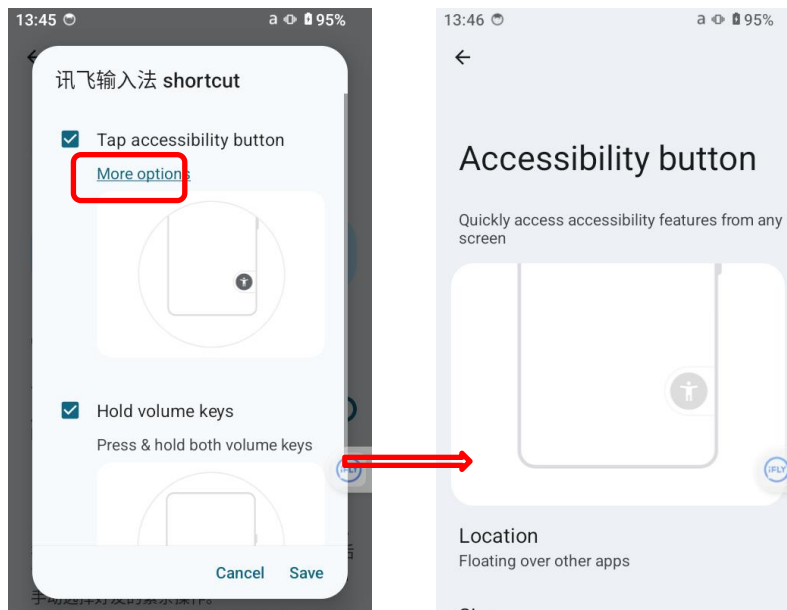
7.10.1.2“讯飞输入法”shortcut

You can set the shortcut by clicking on the text on the left, you can choose 'Tap accessibility button' or 'Hold volume keys'. Select and save the shortcut to make it effective.



7.10.1.3 Accessibility button setting

Click More Options to go to the Accessibility button settings. You can set the position of the accessibility button to hover over other apps or the navigation bar, as well as set the icon size, the icon to fade when not in use, and the transparency of the fade when not in use.



7.10.1.4 Accessibility Button Convenience Cancel

You can conveniently cancel the accessibility button setting by dragging and dropping the accessibility button to the cancel position after cancel appears by long-pressing the accessibility button.

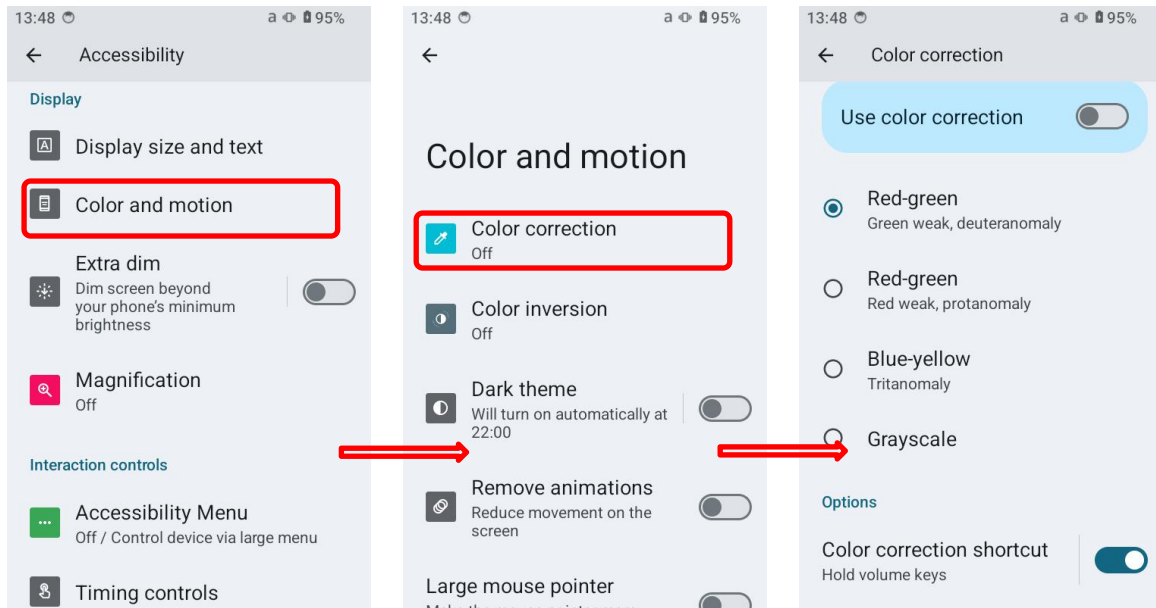


7.10.2 Color and motion

7.10.2.1 Color correction

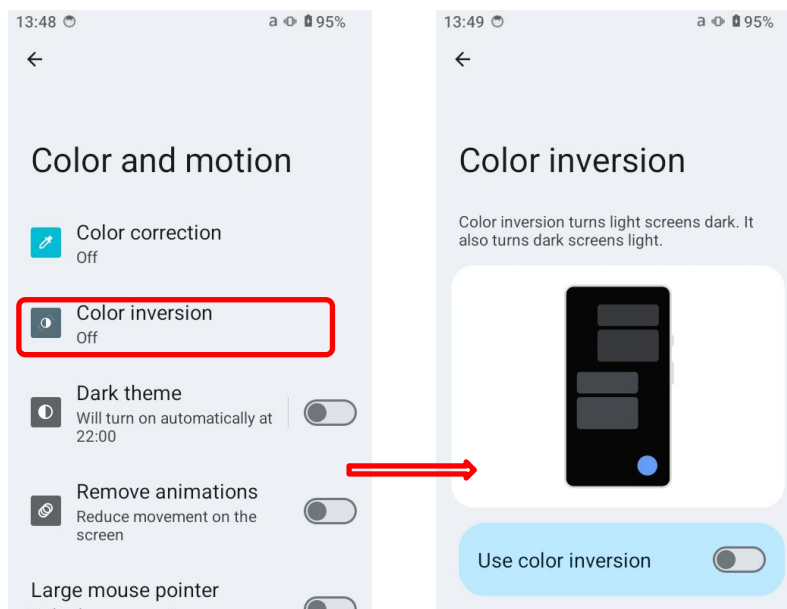
Color correction can be switched on and off by using the Color correction button, and it can also be conveniently switched on and off by turning on the Color correction shortcut. The shortcut can be selected by means of the accessibility buttons and by pressing and holding both volume keys. Refer to 7.10.1.2, 7.10.1.3 and 7.10.1.4 for shortcut settings.

Color correction can be selected from Red-green, Blue-yellow and Grayscale modes, the display effect can be viewed in the demo screen above.



7.10.2.2 Color inversion

The Color inversion feature not only dims the screen brightness, but also brightens the press screen. Color inversion can be switched on and off, or conveniently by turning on the Color inversion shortcut. The shortcut can be selected by means of the accessibility buttons and by pressing and holding both volume keys. Refer to 7.10.1.2, 7.10.1.3 and 7.10.1.4 for shortcut settings.

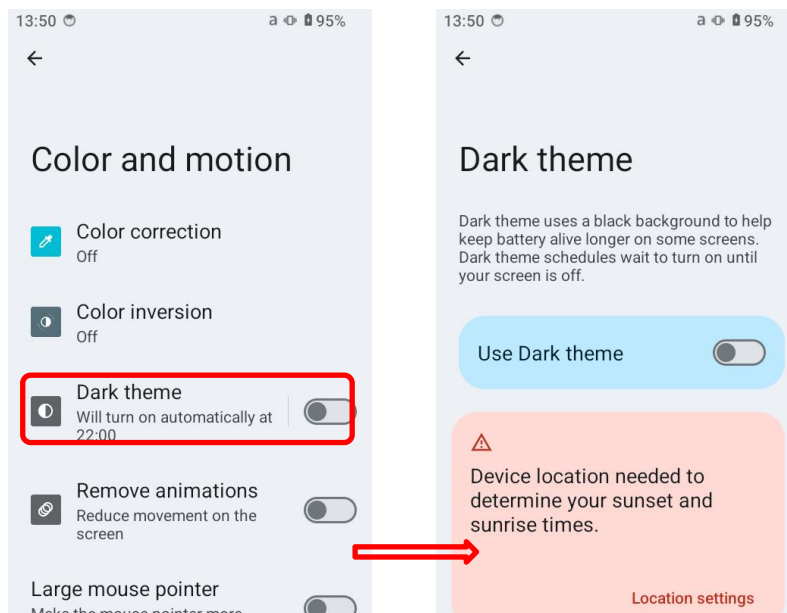


7.10.2.3 Dark theme

Using Dark theme on some screens can help extend your battery life. Dark theme on time will wait until the screen goes off before applying. The turn-on time can be set by yourself or set to turn on between sunset and sunrise.

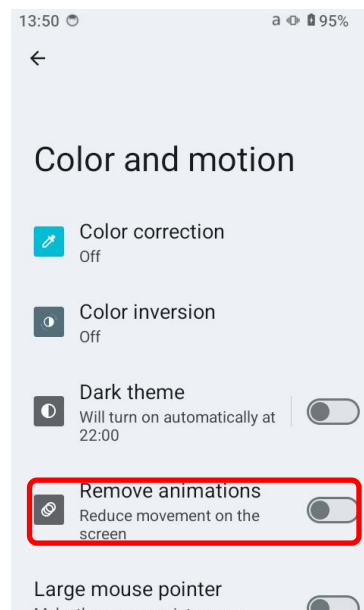
Note that location information mode needs to be turned on for the device to recognize sunset and

sunrise times.



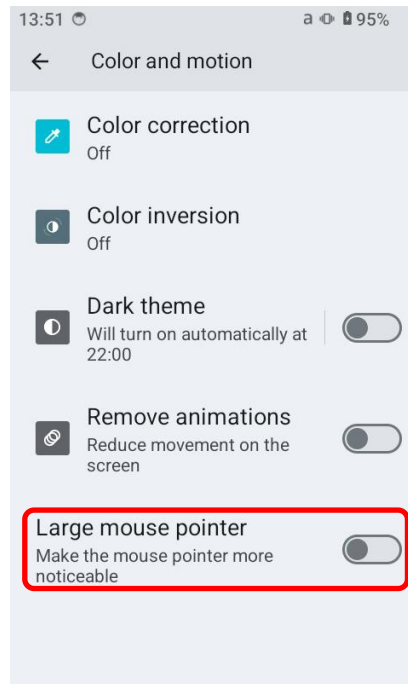
7.10.2.4 Remove animations

Remove animations to reduce animation effects on the screen. Effects such as screenshots will appear simplified.



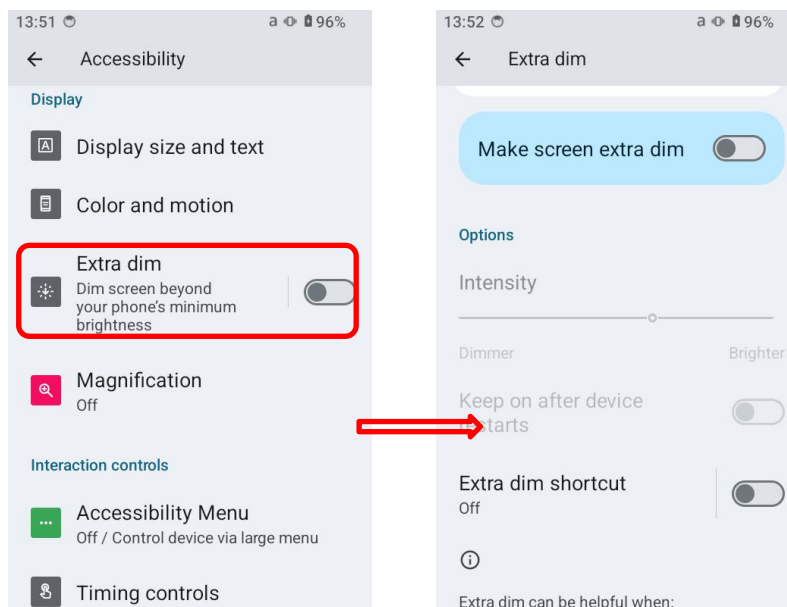
7.10.2.5 Large mouse pointer

When accessing a peripheral mouse, turning on the large mouse pointer will make the mouse pointer more visible.



7.10.3 Extra dim

The screen can be adjusted to be darker than the actual minimum brightness. Switch mode: can be adjusted manually, can set the extremely dark on time as after setting reboot, or can be conveniently switched on and off by shortcut. Refer to 7.10.1.2, 7.10.1.3 and 7.10.1.4 for shortcut settings.

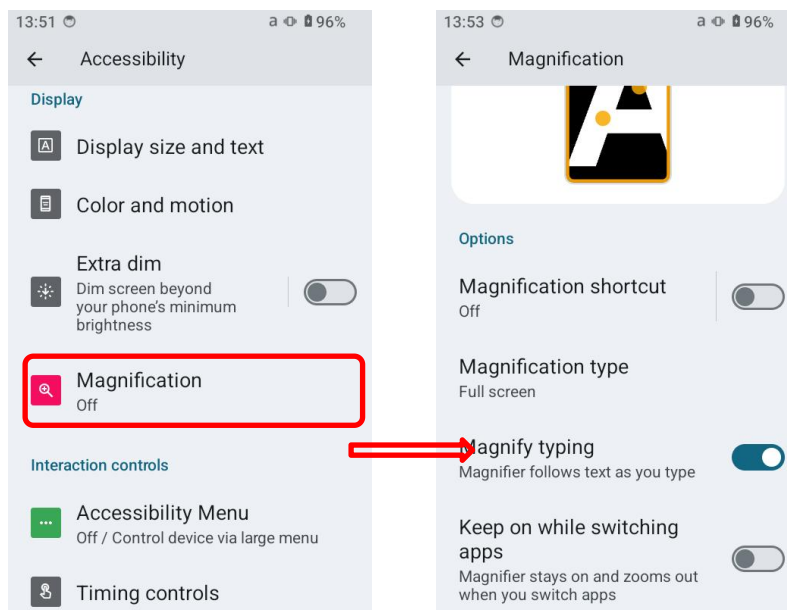


7.10.4 Magnification

Magnification opening method: You can switch Magnification by opening the shortcut, refer to 7.10.1.2, 7.10.1.3 and 7.10.1.4 for shortcut settings.

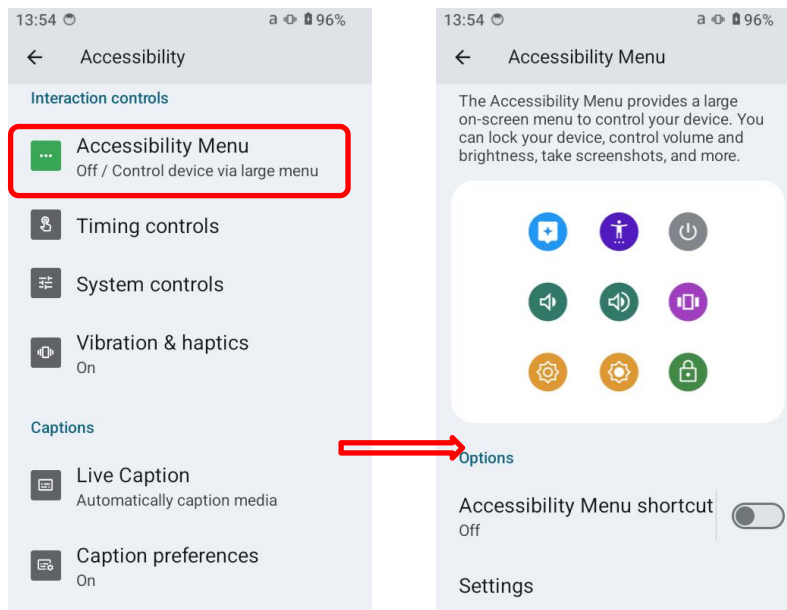
Magnification type: Magnify the whole screen, part of the screen or whole and partial and whole switch. You can click the setting position of the magnifying glass to set the magnification size and the zoom degree.

You can also set to use Magnification when inputting, making the zoom follow the text movement. Save on when switching apps, the magnifier will stay on and reduce the screen when it is on.



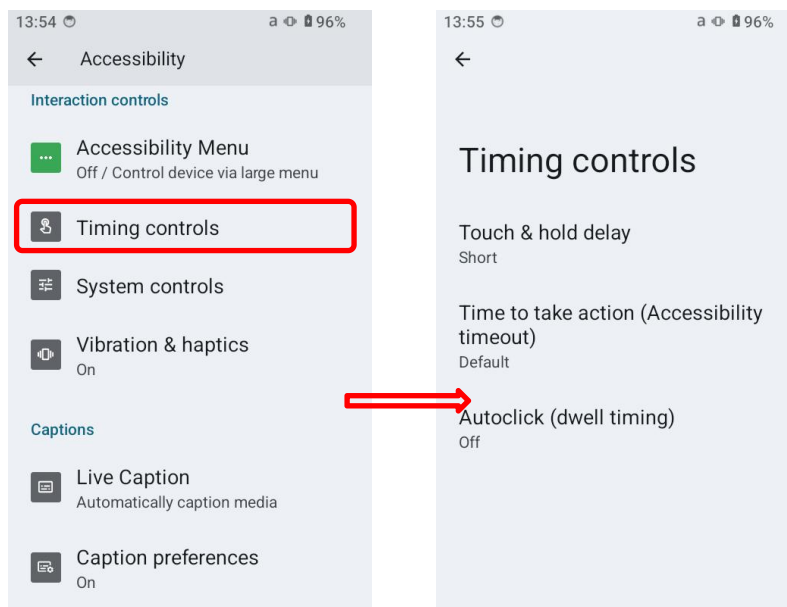
7.10.5 Accessibility Menu

Accessibility Menu is an enlarged menu that facilitates the control of your device from the screen, complete with locking the screen, controlling volume and brightness, taking screenshots, and more. Refer to 7.10.1.2, 7.10.1.3 and 7.10.1.4 for shortcut settings.



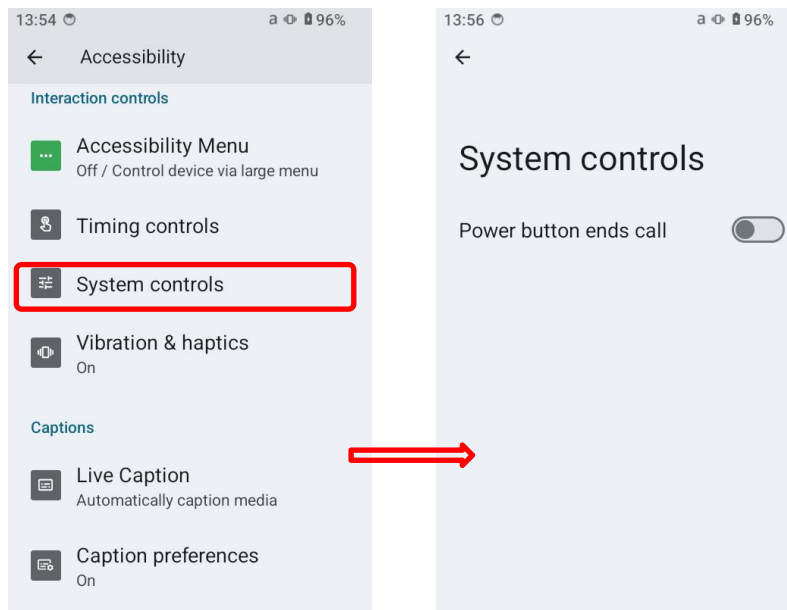
7.10.6 Time controls

You can set Touch&hold delay to extend the time long/medium/short, Time to take action, and Autoclick (stop moving the connected mouse aperture dwell time.)



7.10.7 System controls

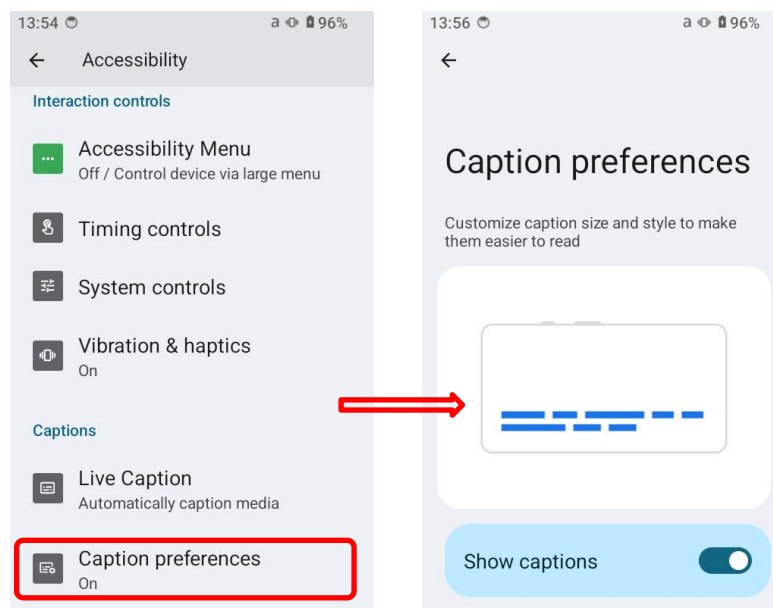
Turn on 'Power button ends call' Button to End Call, which allows you to conveniently end a call after pressing the power button.



7.10.8 Caption preferences

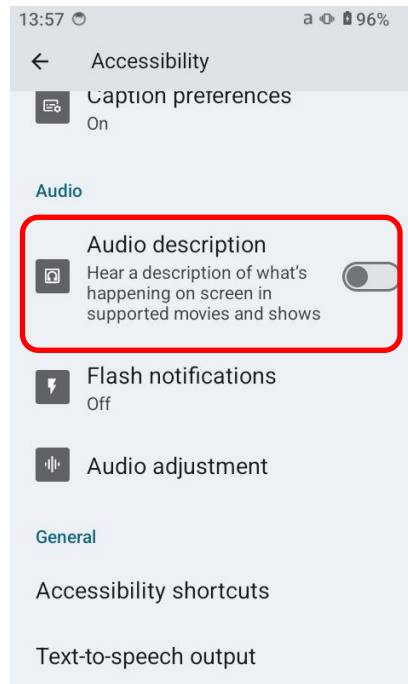
Customize the font size and style of the subtitles to make them easier to read. Some media do not support these subtitle preferences.

The font size, style, and language in which the subtitles will be translated can be set.



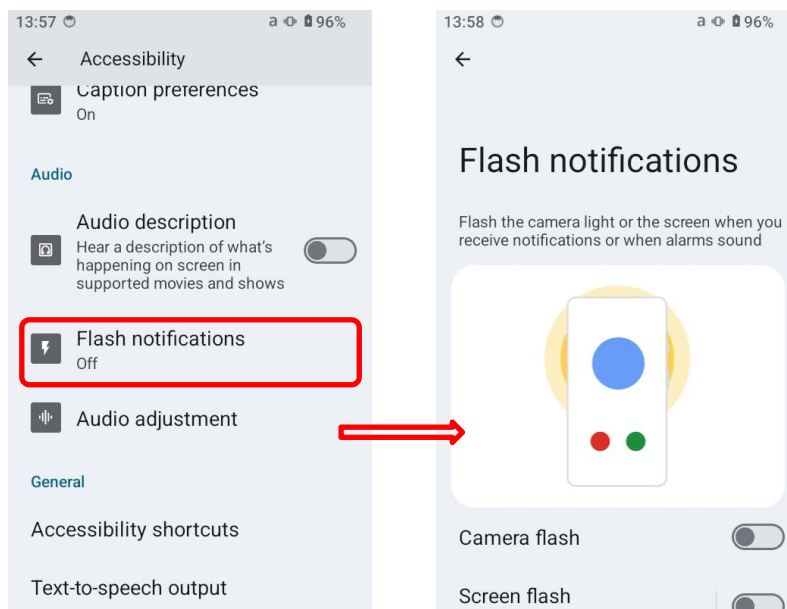
7.10.9 Audio description

Describes the content of the current screen presentation in a verbal format, supported only for movies or TV programs.



7.10.10 Flash notifications

Blink the camera flash or screen when you receive a notification or ring.



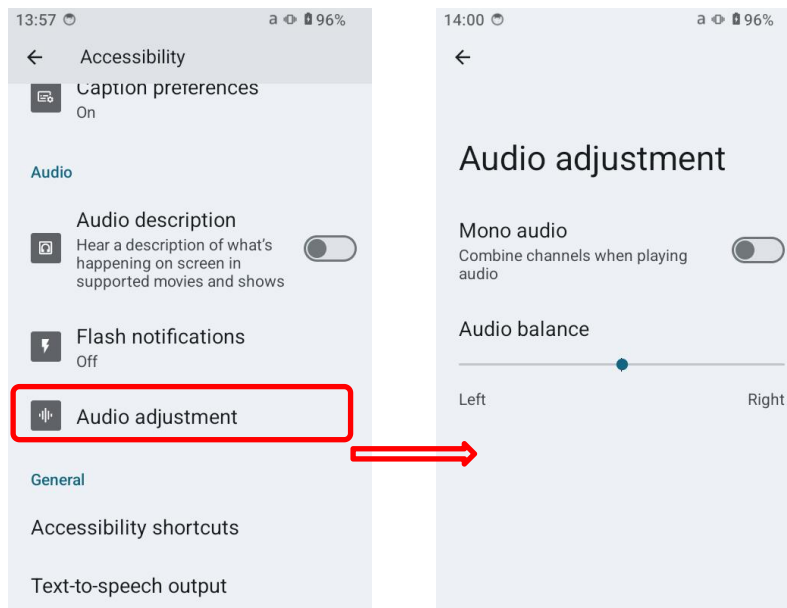
7.10.11 Hearing devices

Pair your new device and you can use hearing aids, cochlear implants and other amplification devices to assist your hearing on your phone once the pairing is complete.

Also enable Hearing devices shortcut, Refer to 7.10.1.2, 7.10.1.3 and 7.10.1.4 for shortcut settings.

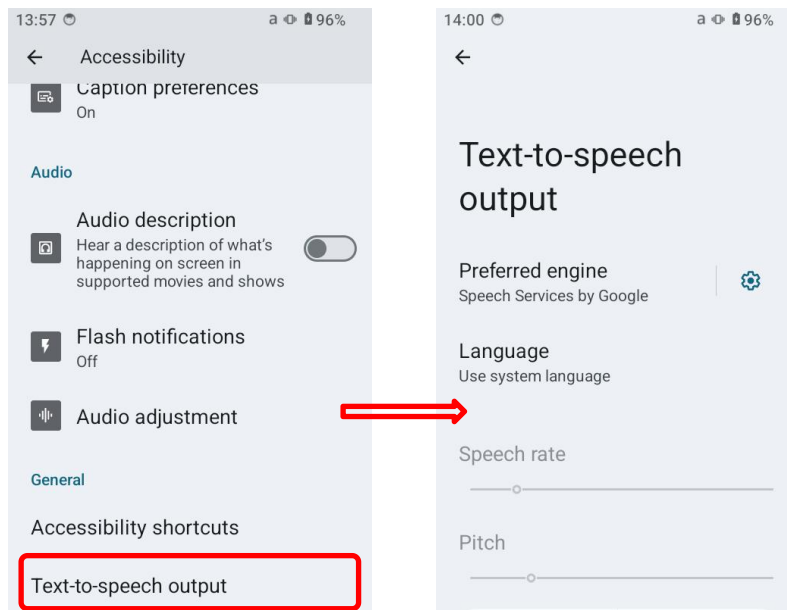
7.10.11 Audio adjustment

Mono audio or combined channels during playback. Volume Equalization With reasonable equalizer left and right adjustments, users can get a more comfortable and natural music effect.



7.10.12 Text-to-speech output

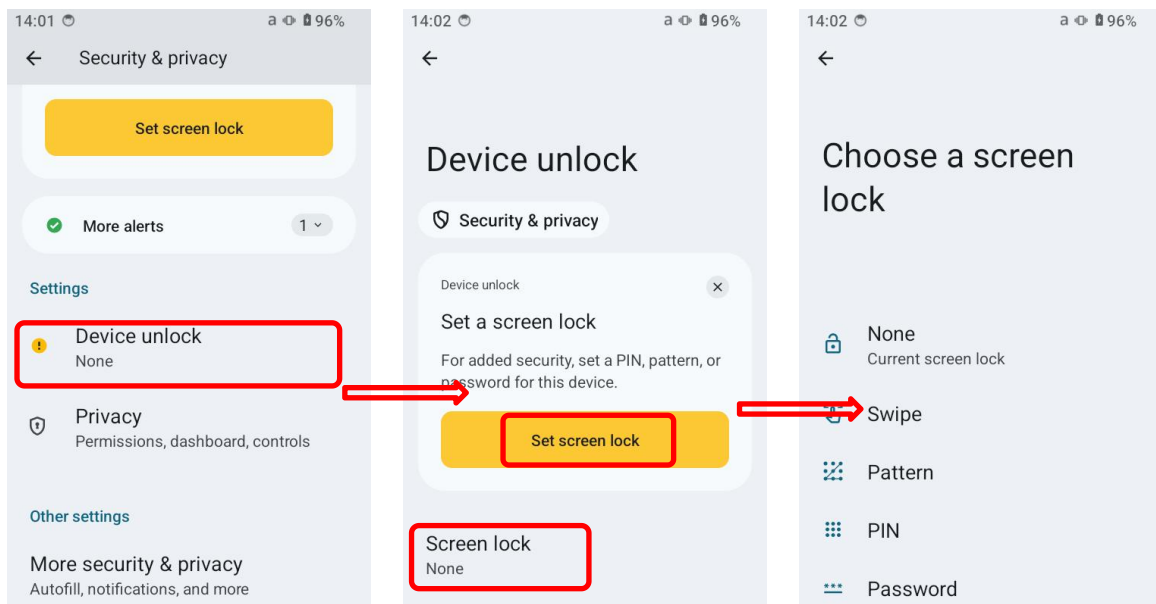
Text-to-language output, the system supports converting text content to language output. The language service can be selected from Google and other applications that support text-to-speech output. The output language uses the system language, or you can choose your own language, you can adjust the speed and pitch of the text-to-language output.



7.11 Security & privacy

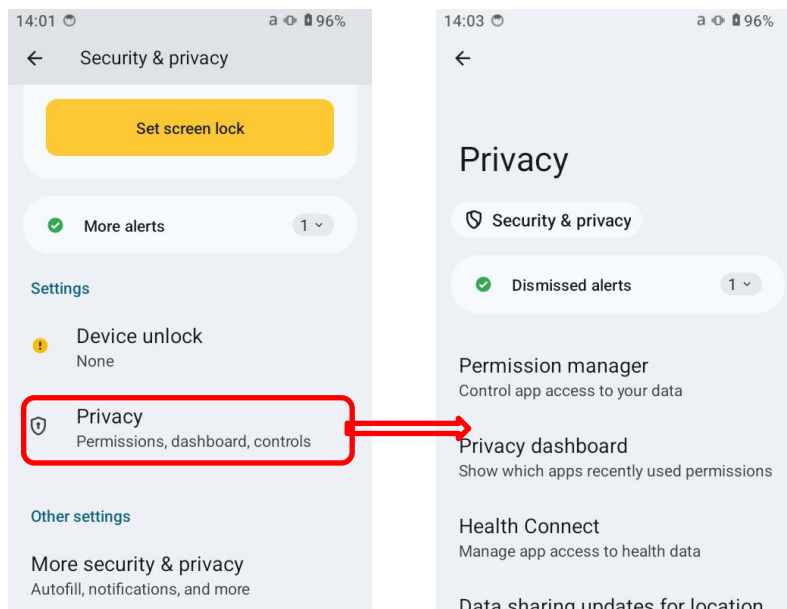
7.11.1 Device unlock

Set the unlocking method of the device, you can choose None/Swipe/Pattern/PIN/Password. To improve the security of the system it is recommended to set Pattern/PIN/Password.



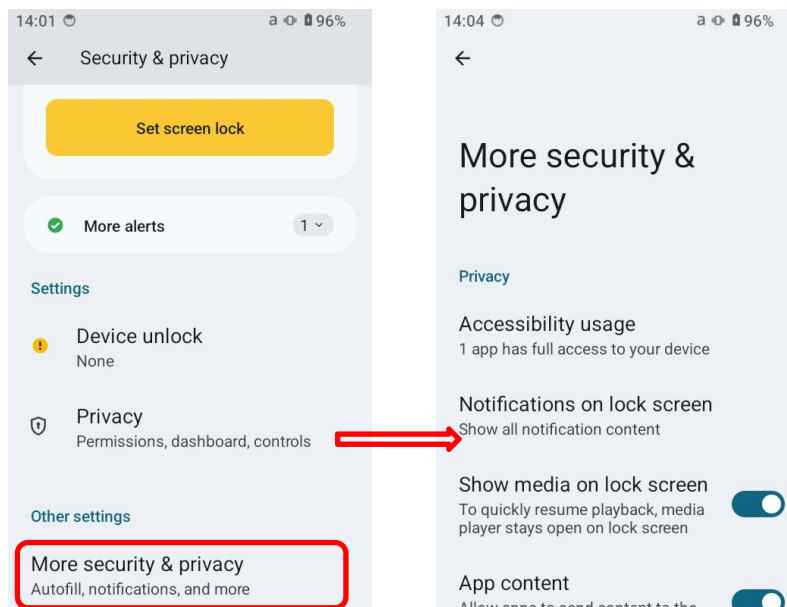
7.11.2 Privacy

- 1) Permission manager: set the apps' access to your data.
- 2) Privacy dashboard: Here you can see which apps have access to your permissions, such as camera, microphone, SMS, phone calls, and so on.
- 3) Health Connect: Store your health and fitness data, so you can easily synchronize your health data to different apps.
- 4) Data sharing updates for location: View apps that have changed the way they share location data.
- 5) Microphone access: For apps and services. When this setting is turned off, the system may not share microphone data when you call an emergency number.
- 6) Show clipboard access: The system will display a message when the app accesses text, images or other content you have copied.
- 7) Show password: Characters are briefly displayed on output.
- 8) Location access: Clicking here will open the location information. Please check 7.12 for configuration.



7.11.3 More security & privacy

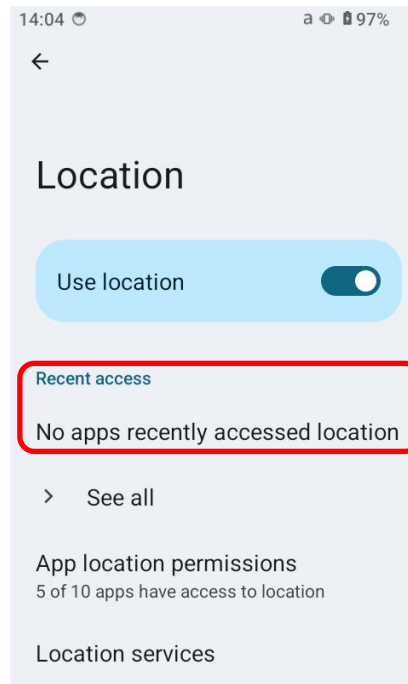
- 1) notifications on lock screen: you can turn on and off the notification display on lock screen.
- 2) Show media on lock screen: when turned on, the media player will remain open on the locked screen in order for you to quickly reply to the playback.
- 3) App content: Allows apps to send content to the Android system.
- 4) Android System Intelligence: Provides you with useful suggestions based on the contacts, apps and content you interact with.
- 5) Health Connect: stores your health and fitness data and allows you to easily synchronize different apps on your upgrade.
- 6) Security: allows you to view your device's encryption and credentials to install certificates, set up device management apps, fixed apps, and more.



7.12 location

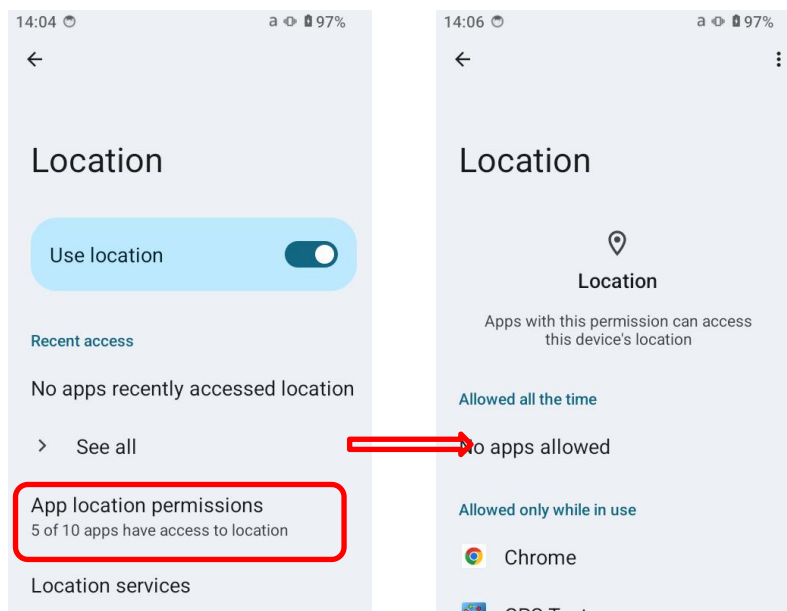
7.12.1 Recent access

This is where you can see which apps have recently acquired location access information.



7.12.2 App location permissions

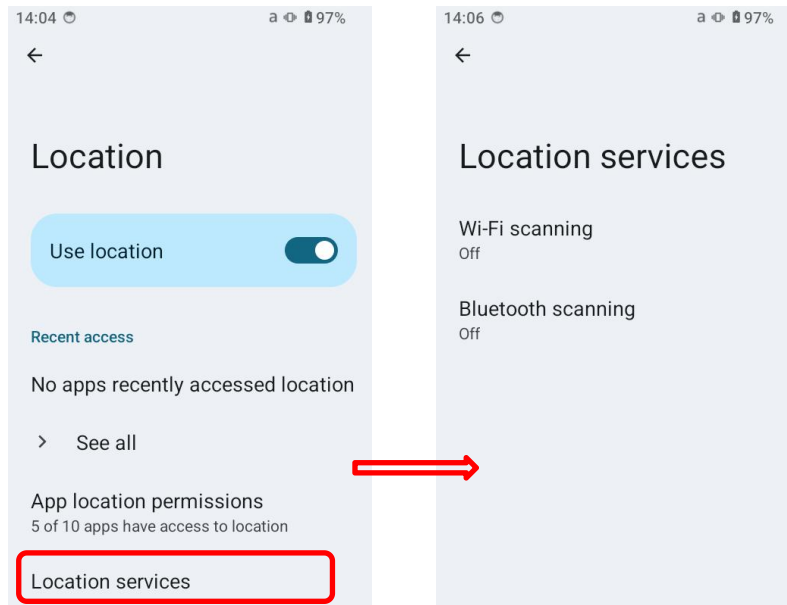
This is where you can set all the permissions for app location information. You can set the permission to Not allow/Allow only when used/Allow all the time for apps to get location information.



7.12.3 Location services

Improve location-based features and services by capturing location information through Wi-Fi

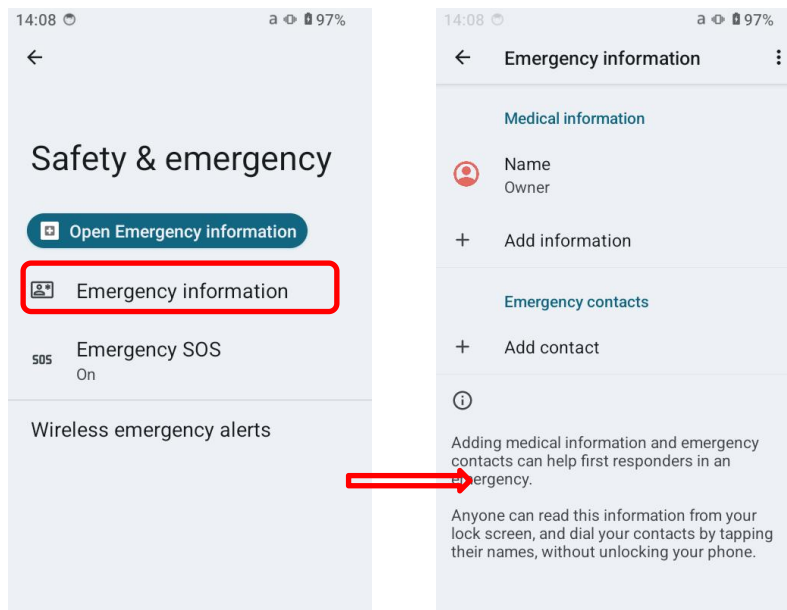
scanning and Bluetooth scanning. Allow apps and services to scan for nearby WLAN networks at any time (even if WLAN is turned off). Allow apps and services to scan for nearby devices at any time (even if Bluetooth is turned off).



7.13 Safety & emergency

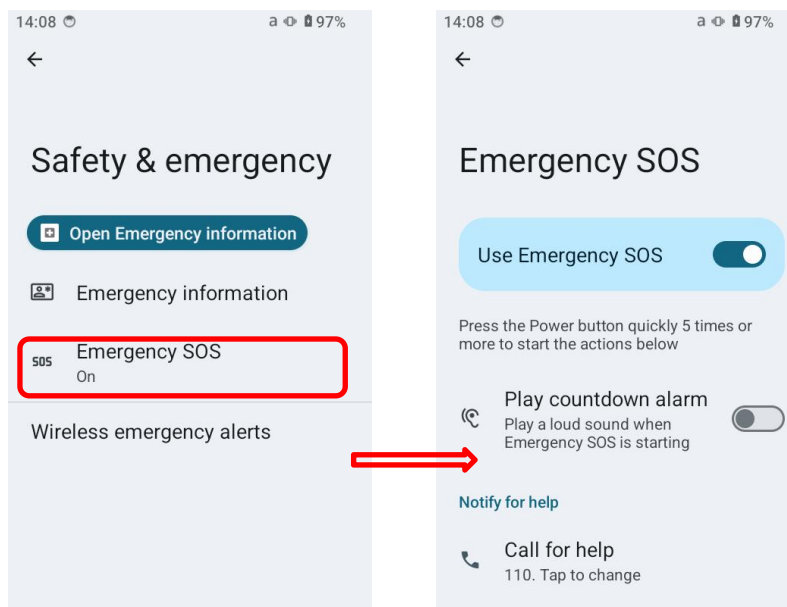
7.13.1 Emergency information

First aid information can be set up, adding medical information and emergency contacts helps first responders to provide relevant assistance in the event of a time of emergency. Anyone can see such messages on the lock screen without having to unlock your phone, and can call the person by tapping on the name of the relevant contact.



7.13.2 Emergency SOS

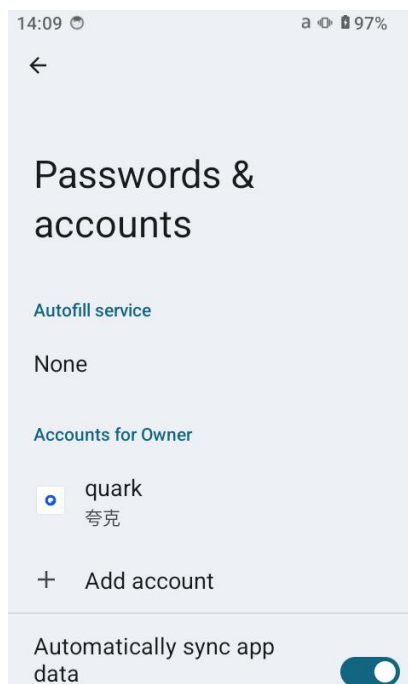
First aid information can be set and the first aid function can be turned on. Improve the emergency means for personal safety. The default setting of 110 can also be changed to other emergency numbers.



7.14 Passwords & accounts

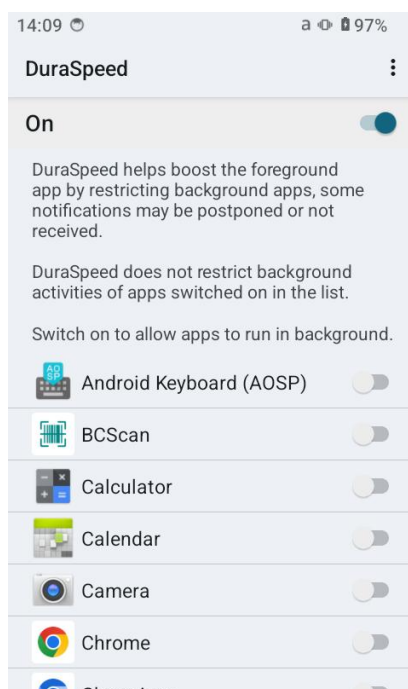
The device will automatically get the account information of the owner's apps to keep it in the device, and also automatically synchronize the app data to update the data in time. Help the owner to

conveniently log in different applications.



7.15 DuraSpeed

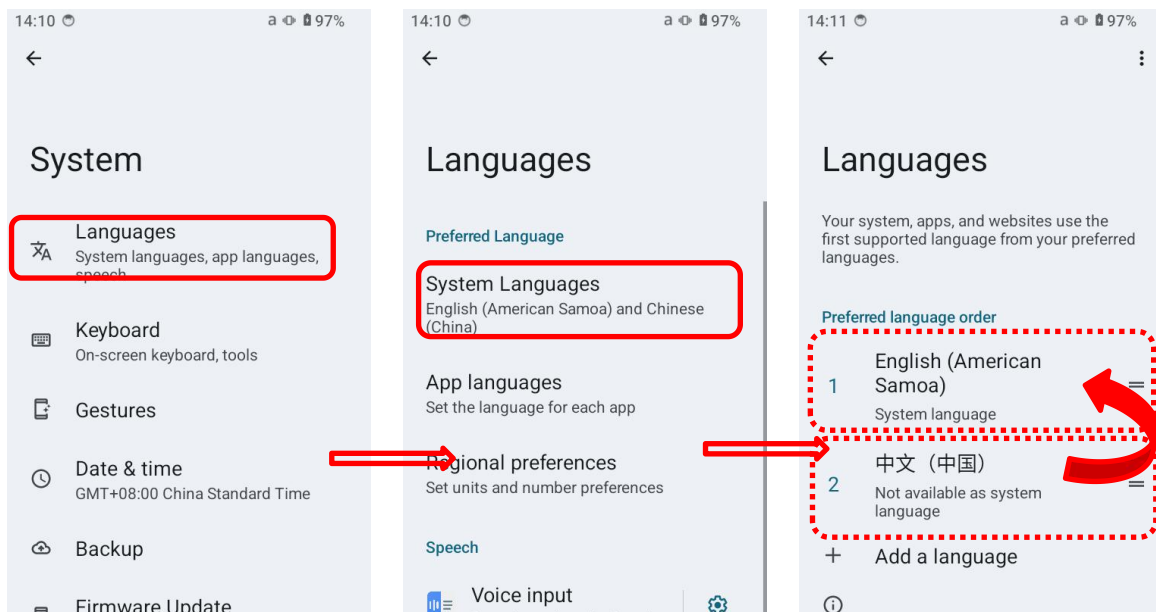
DuraSpeed adds foreground app recognition by suppressing background app activity, but may result in some notifications not being received properly. Turn on the app switch in the list to be free from DuraSpeed.



7.16 System

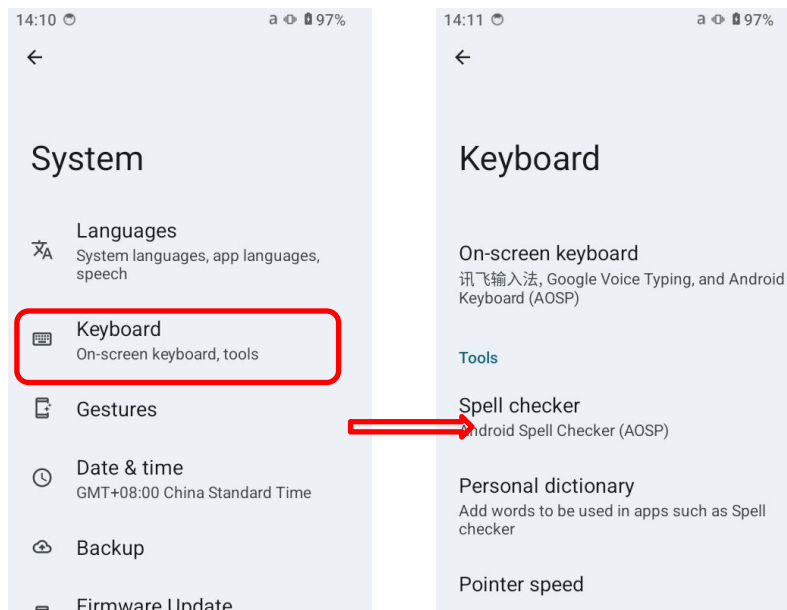
7.16.1 Languages

Set the system language, application language, regional preference for temperature presentation, and so on. You can also set the language input method, add device-side recognized language and text-to-language output. It should be noted that when setting the system language, such as the need to set to '中文', long press '中文' up to 'English'.



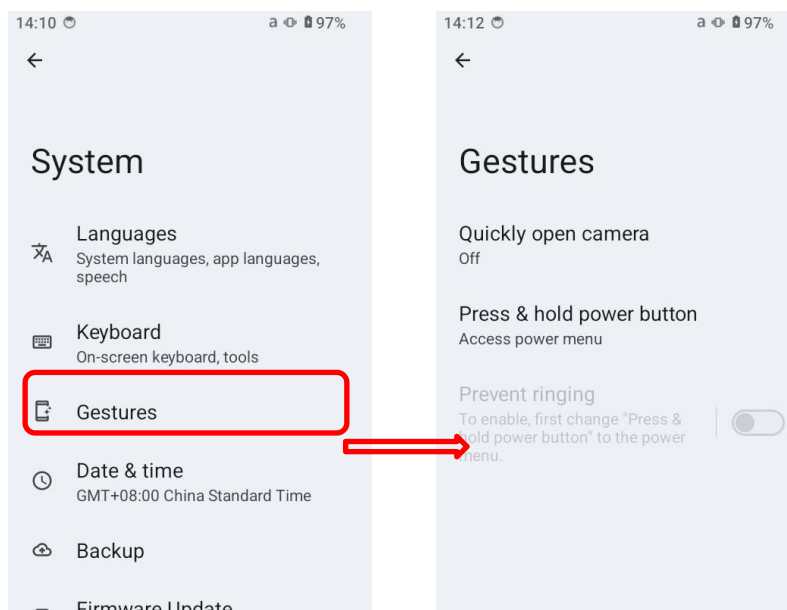
7.16.2 Keyboard

You can choose the type of on-screen keyboard and set it according to your personal needs. Keyboard tools, check spell checker (Android keyboard support), personal dictionary (Chinese/English), speed of pointer, language control can also be set.



7.16.3 Gestures

The camera can be set to turn on quickly by pressing the power button twice. Additional access can also be set for the power button, the power menu or to set up a digital assistant.

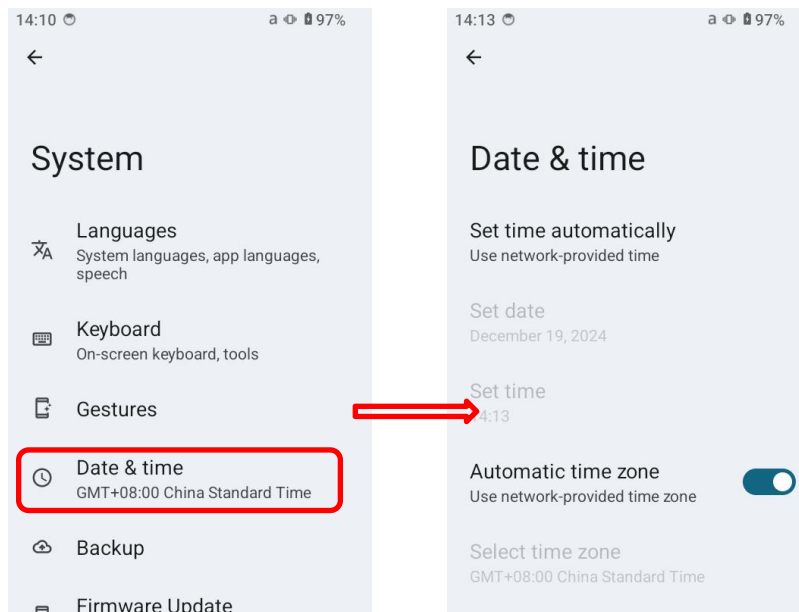


7.16.4 Date & time

Date can be set to use network to provide time/use GPS to provide time/off (set system

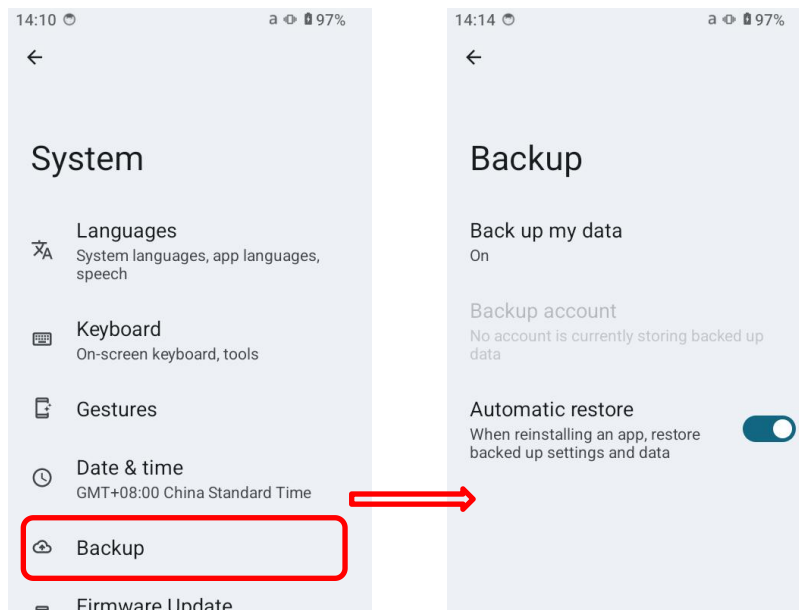
time by yourself after off).

Determine time zone automatically: Turn on to use network to provide time zone. Note that an internet connection needs to be turned on. You can also set the default language zone and 24-hour system/12-hour system.



7.16.5 Backup

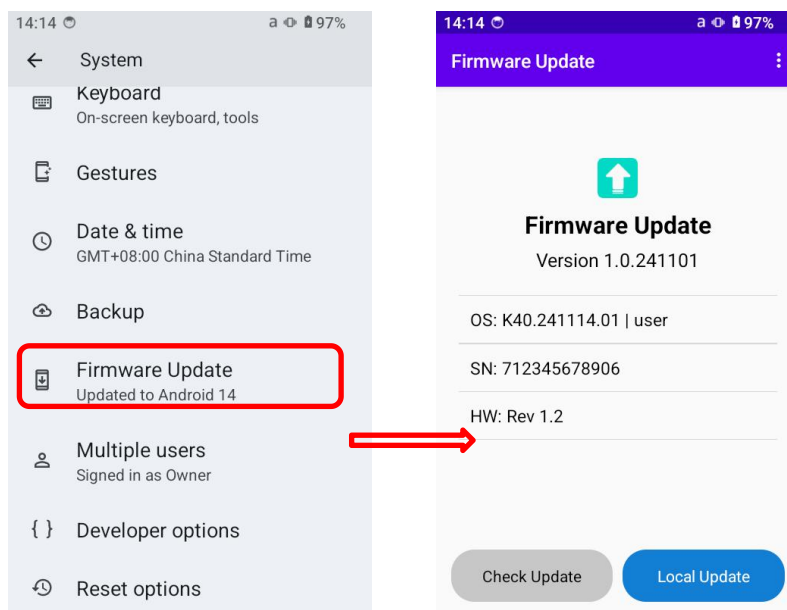
Turn it on to back up system data, and when reinstalling an application, the system will restore the settings and data that have been backed up.



7.16.7 Firmware Update

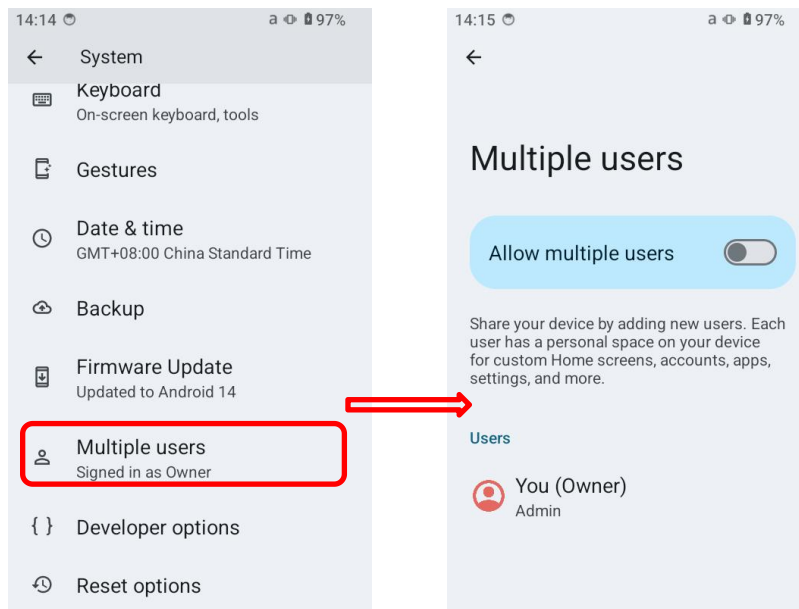
Firmware upgrade supports two upgrade methods: network downgrade and local update. Local update imports the configuration file from the storage. For network downgrade, you need to provide SN number and version number to HAYADA technical support. Note that you need to turn on the network to receive the firmware.

Steps for network downgrade: Turn on the network -> Click Check Update -> Click Download Now when the update interface appears -> After the update is completed, please go to About Device, Version Number to check if it is updated to a new version.



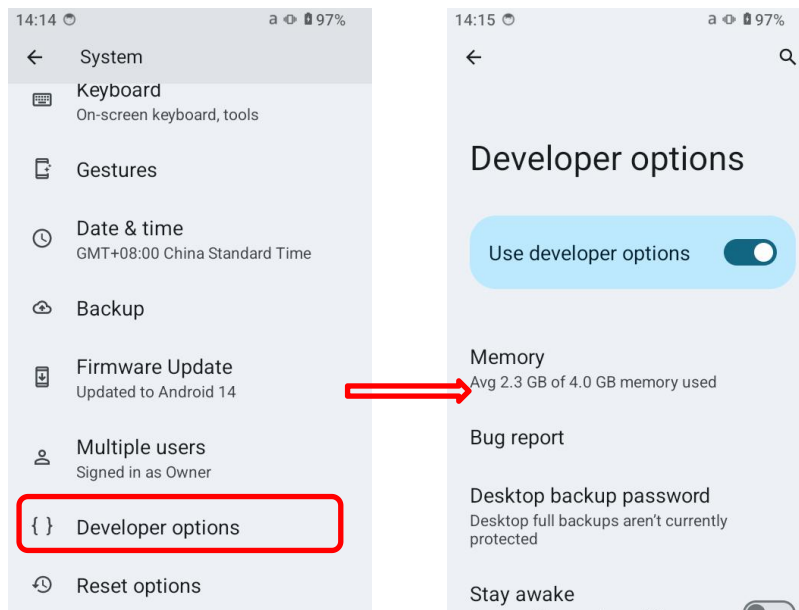
7.16.8 Multiple users

Allows multiple users to be added to share the current device, each with a personal space in order to use customized home screens, accounts, apps, settings and more.



7.16.9 Developer options

Tap the version number 5 times to bring up the developer options. Go to Developer Options to set and view more information about your device.



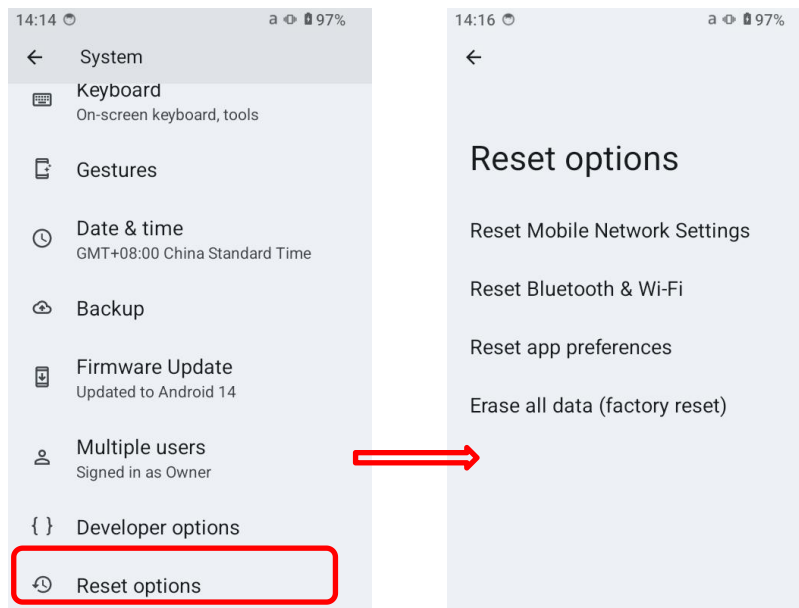
7.16.10 Reset options

Multiple reset methods, Reset Mobile Network Settings, after reset the configured network settings are restored to the factory settings state.

Reset Bluetooth & Wi-Fi your connection status and history saving are cleared.

Reset app preferences, reset installed apps.

Erase all data (factory reset) , your phone's internal storage and all data are cleared after clicking.

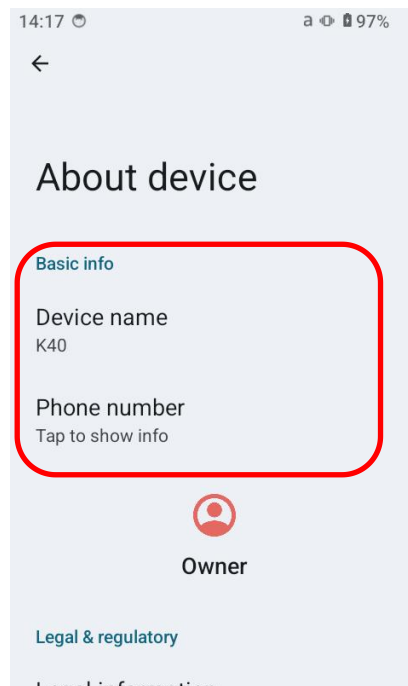


7.17 About device

7.17.1 Basic info

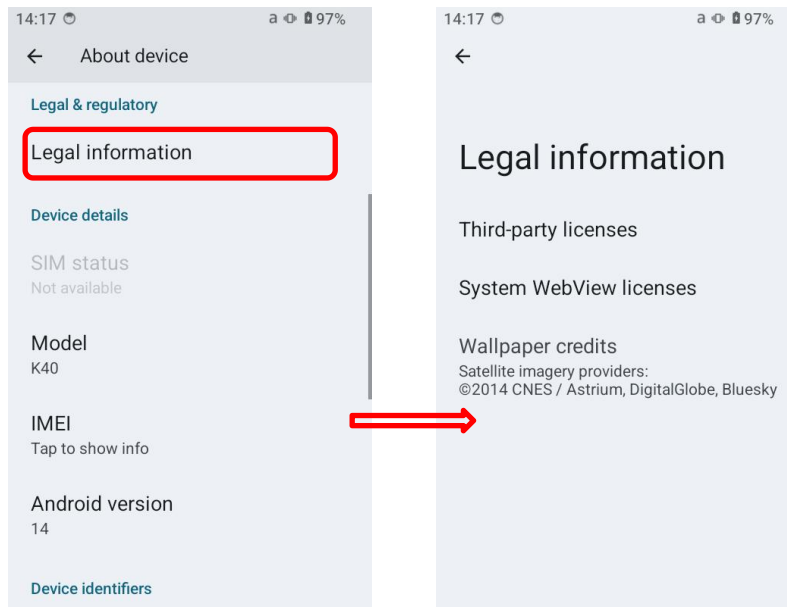
Device name: Click to change the device name.

Phone number: display the cell phone number and SIM card status of the device.



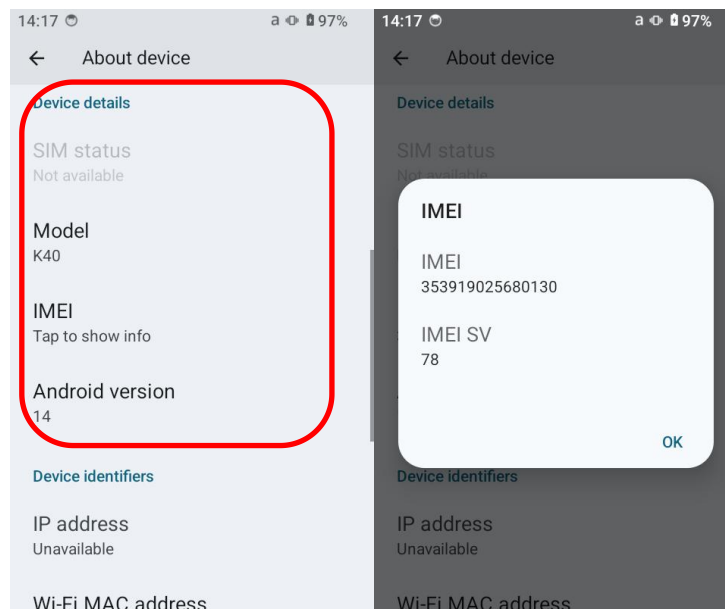
7.17.2 Legal & regulatory

You can view legal information about third-party licenses, WebView licenses for your system.



7.17.3 Device details

You can check SIM status, device Model, Android version and also click on IMFI to check.



7.17.4 Device identifiers

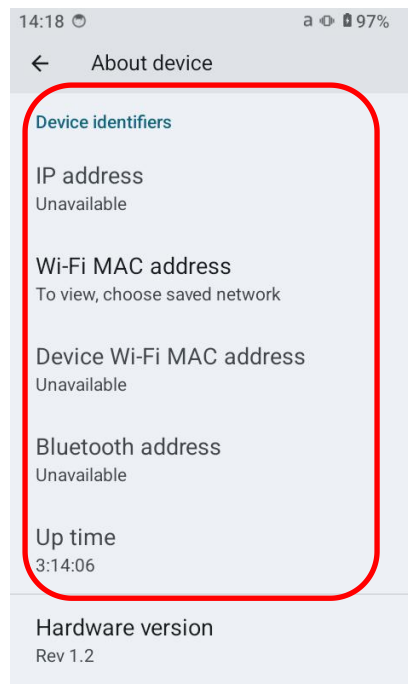
You can view the IP address, WiFi MAC address, Device WiFi MAC address, Bluetooth address, and power-on cumulative hours of the device in the current network.

If you need to change the privacy settings in a saved network, for example from using a random MAC address to using the device's

MAC address, you can follow the procedure below: In About Device, click WiFi MAC address to go to Saved Networks, click Networks, and set privacy .

Bluetooth address: the factory Bluetooth address of the device.

Power On Cumulative Duration: You can view the power on duration of the device.

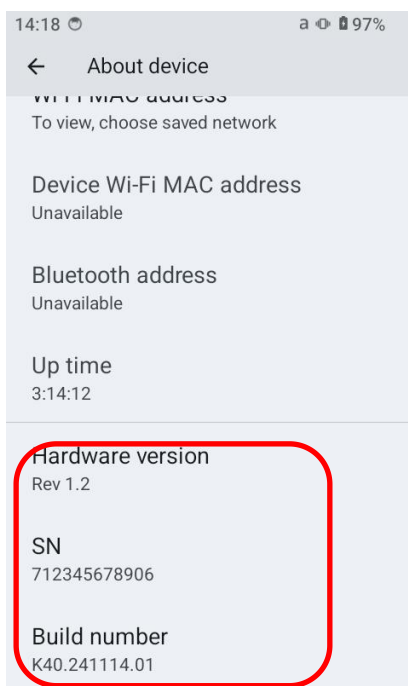


7.17.5 Device factory information

Hardware version: the version number of the device's hardware motherboard, such as Rev1.2 here.

SN: The unique identification number of the device. Check the SN number of the device, if you need to upgrade the system remotely, please provide the SN number of the device to be upgraded to the developer of MINDEO and the remote upgrade will be pushed subsequently.

Build number: the current software version number, if you need to update, please provide this information, after updating, you can also check the current information to confirm whether the update is complete.

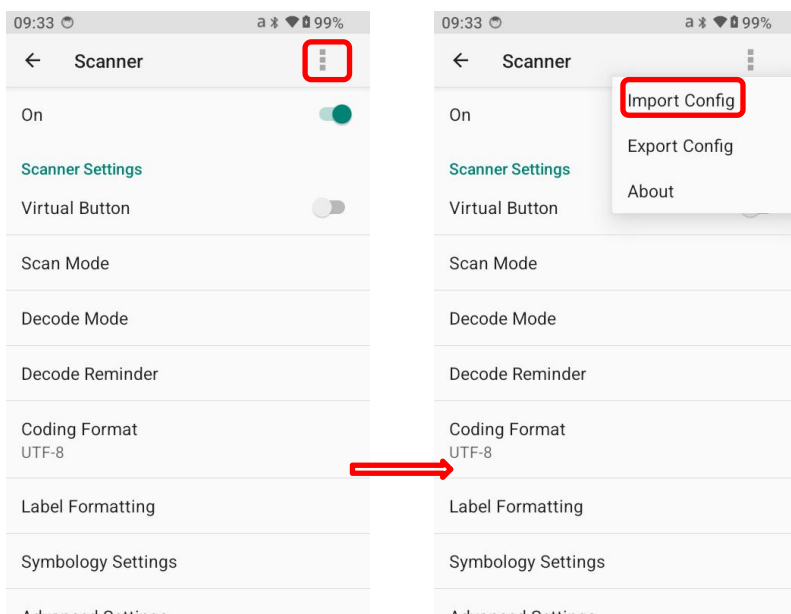


8 Enterprise Setting

8.1 Scanner

8.1.1 Importing Configurations

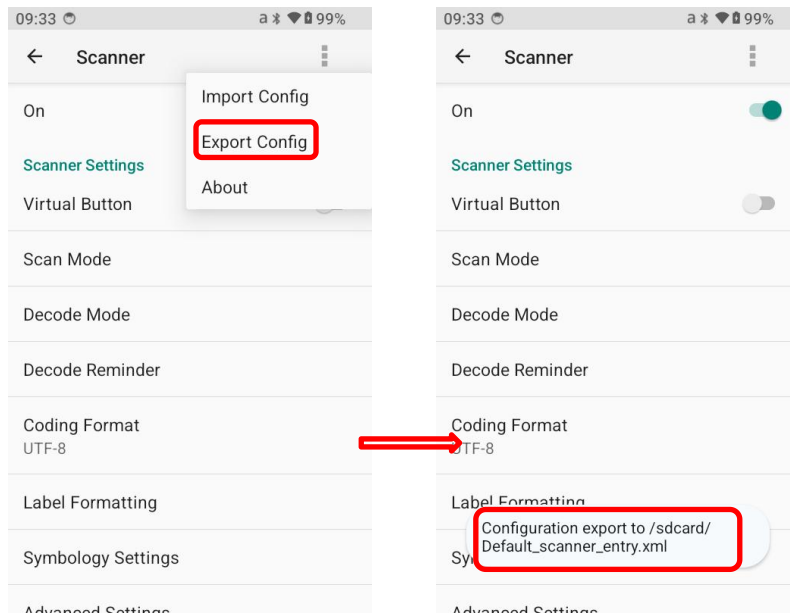
Click 'Import Config' to open the storage to find the installation package, and you can import the configuration to the current software within the settings. Through the import operation, you can conveniently import the sweep configuration files of other devices.



8.1.2 Exporting Configurations

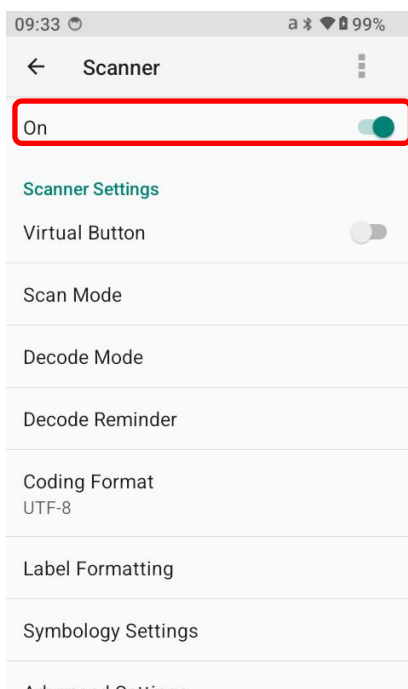
Click Export Configuration File, the file will be packed in the following location: /sdcard/Default_scanner_entry.xml.

you can transfer it to other devices via Bluetooth, USB, etc. to synchronize the current configuration with one click.



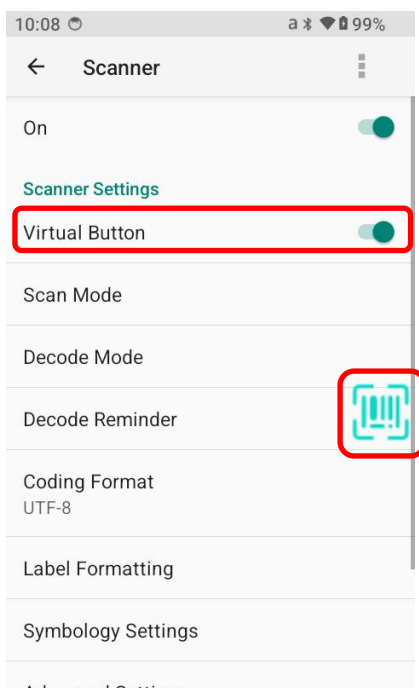
8.1.3 Enable code scanning

Click 'On' to turn on the scanning of the device. Once turned on you can click the scanning buttons on both sides of the device for 1D, 2D or DPM code recognition. The recognized information is displayed in the input box.



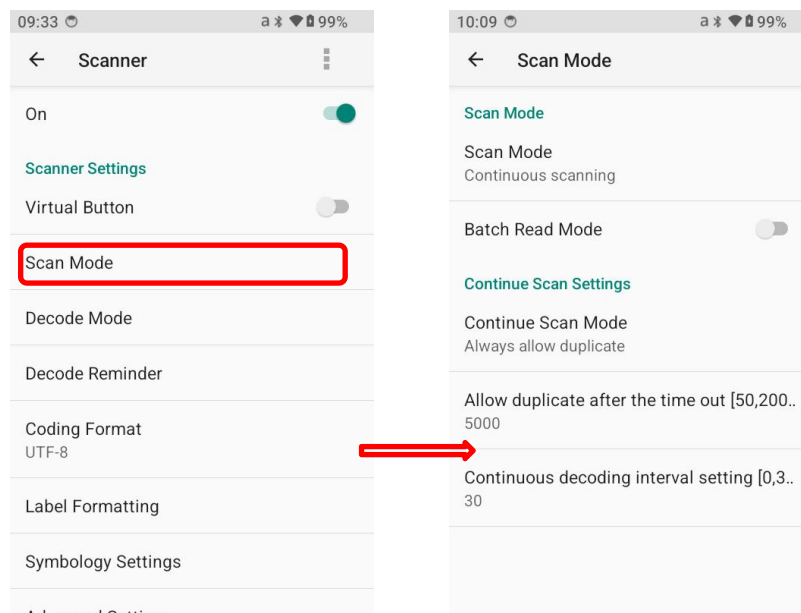
8.1.4 virtual button

When you turn on the virtual sweep button, you can touch the virtual button on the screen to sweep the code.



8.1.5 Scan Mode

- 1) Scanning mode is optional: press to start decoding and release to stop; press to start decoding until timeout; continuous decoding; press to continue decoding and release to stop.
- 2) Batch read mode: when it is turned on, it can recognize multiple barcodes and output them in the input box.
- 3) Continuous reading setting: can be set when 'Continuous Decode'/'Press Continuous Decode, Release Stop' is selected for code scanning mode.
- 4) Continuous decode mode is selectable: repeat decode, discontinuous repeat decode, no repeat decode in cache. Non-continuous repeated decoding, means that different barcodes can be read within the set non-repeated decoding timeout, only the consecutive barcode labels can not be the same. Non-repeating decoding in the cache, in the non-repeating decoding timeout time to read different barcodes, barcodes can not be the same in the current time.
- (5) Setting of non-repeat timeout time: range 50ms-20000ms.
- (6) Continuous decoding interval setting: range 0-3000ms, when the actual decoding time is greater than the set continuous decoding interval, the decoding interval is the actual decoding time. When the actual decoding time is less than the set continuous decoding interval, the decoding interval is the time set here.

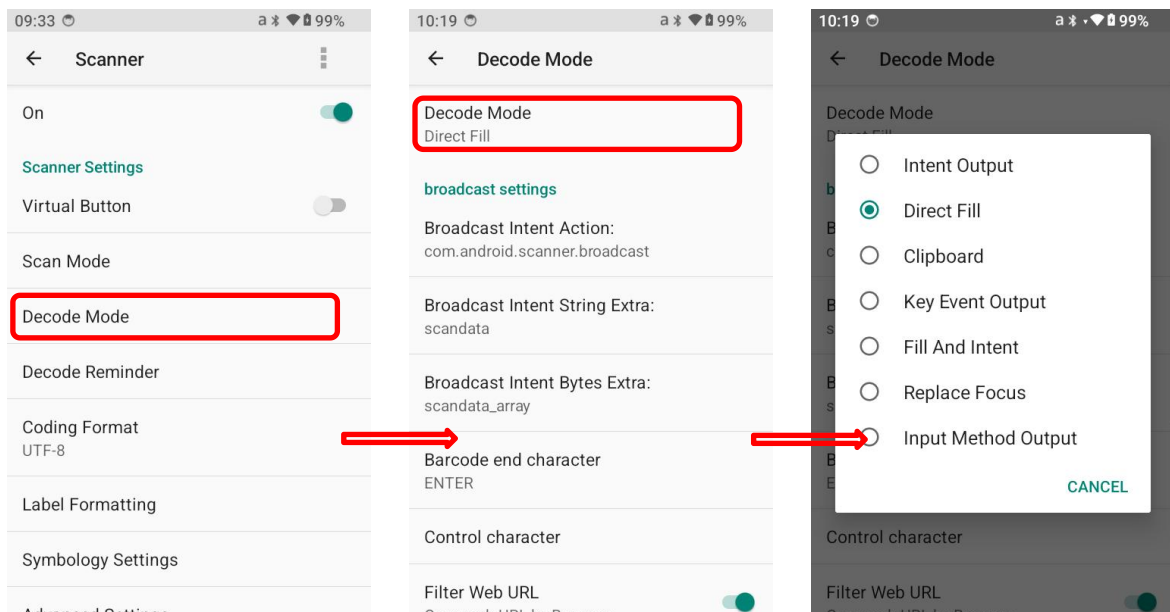


8.1.6 Decode Mode

8.1.6.1 decoding mode

- 1) Intent Output: Broadcast output, the output mode is broadcast communication, other software can read the output content.
- 2) Direct Fill: Fill the focus position, fill the focus position that the output in any input box.
- 3) Clipboard: Clipboard, output to the input box and perform copying. Can be pasted in other locations of their own.

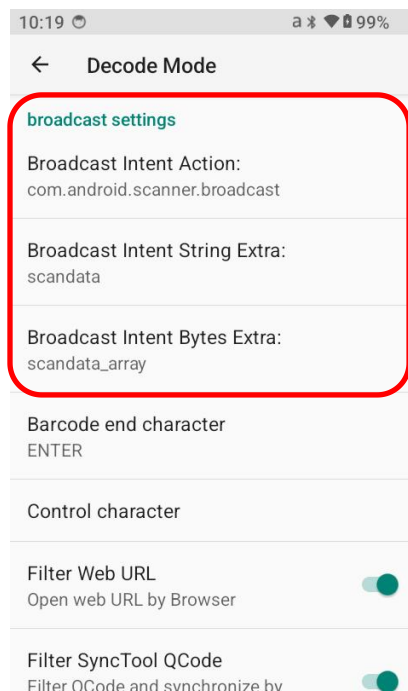
- 4) Key Event Output: key output, the output mode and keyboard key output feel the same, single letter tapping output.
- 5) Fill And Intent: Fill Focus Position and Broadcast Output, contains two output modes.
- 6) Replace Focus: Cover the focus position, the next output covers the content of the previous output. It is recommended to sweep the output to the focus position.
- 1) Input Method Output: Input method output, output in accordance with the way the input method is written.



8.1.6.2 Broadcast Setting

In this item, you can set the output of code scanning result by broadcasting. If your application is set up to receive broadcasts with a specified name, fill in the Broadcast Output Action item with the name of the broadcast.

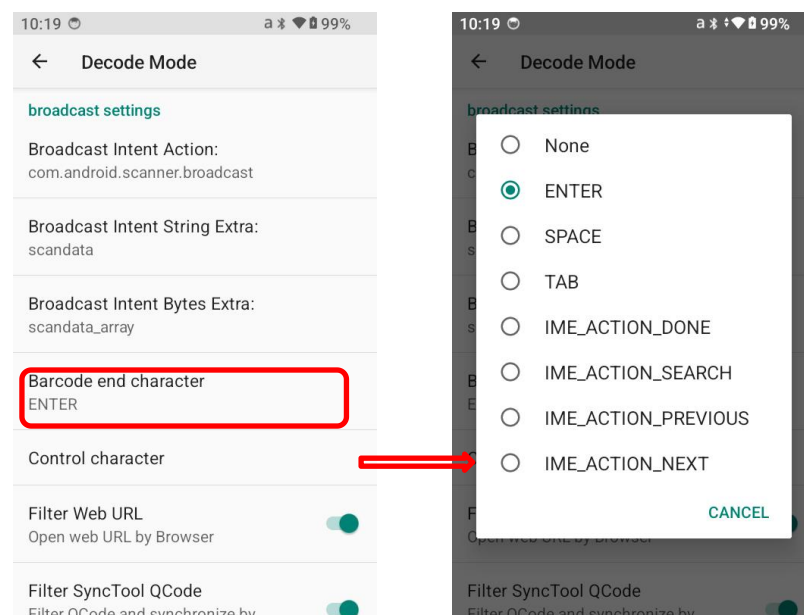
For specific settings, please refer to the document “ Scanning Service Interface Definition” .



8.1.6.3 Broadcast Settings

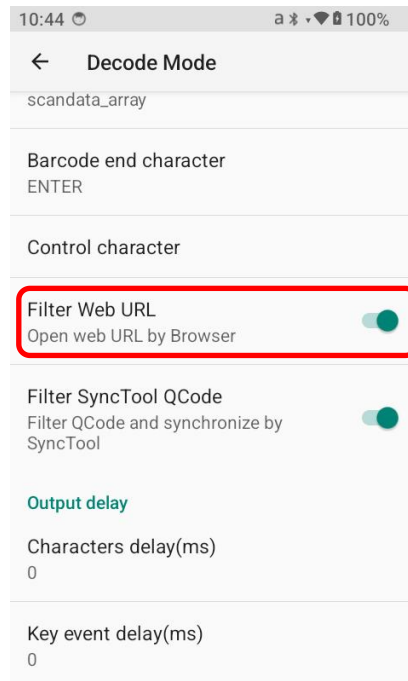
Execute at the end of the output barcode: None、ENTER、SPACE、TAB、IME_ACTION_DONE、IME_ACTION_SEARCH、IME_ACTION_PREVIOUS、IME_ACTION_NEXT.

The end symbol you select will be appended to the sweep result, displayed after you have decoded the output content.



8.1.6.4 Filter Web URL

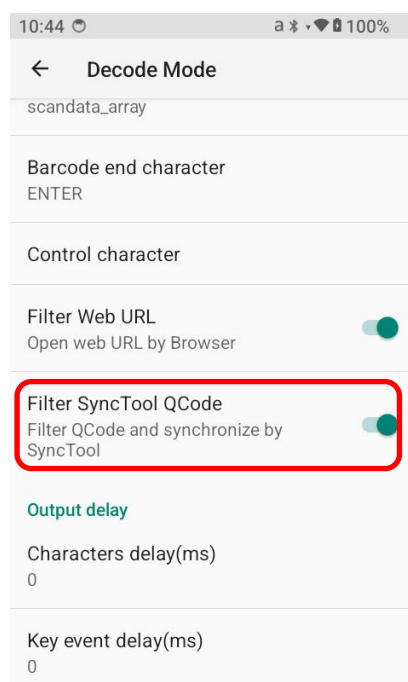
When you open the recognized website address, you can jump to the specified URL when the QR code you read is a URL.



8.1.6.5 Filter Sync Tool QCode

When you open 'Filter Sync Tool QCode', when the information you read is a QR code configured on the Synchronization Tool web page or a QR code generated by a configuration file, simply scan the code in the 'BCScan' demo box to complete the configuration. There is a prompt at the bottom when the configuration is complete.

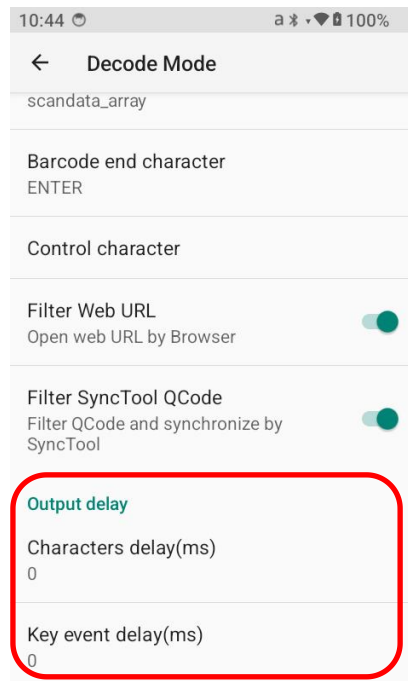
Note that the web configuration QR code of the synchronization tool cannot be read if this box is not opened.



8.1.6.6 Output delay

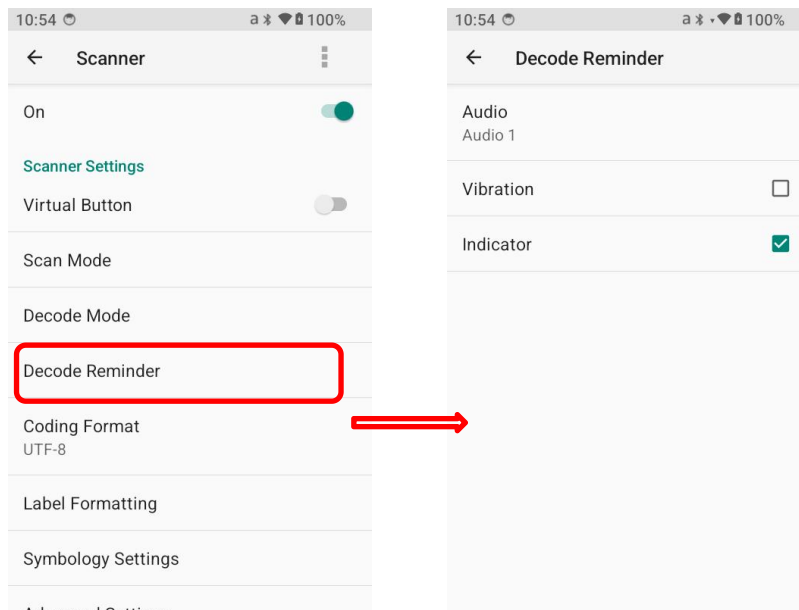
Delayed output time between characters, when you check 'Key Event Output' in 'Decode Mode' above, you can see the interval time between characters. Maximum support 1000ms delayed output.

Enter key delayed output time, support up to 1000ms delayed output. Here you need to select 'Enter' in 'Barcode end character'.



8.1.7 Decode Reminder

Selectable decoding sound, multiple sound effects to choose from. Decoding vibration, decoding indicator light reminder. You can set the reminder mode according to the needs of application scenarios.

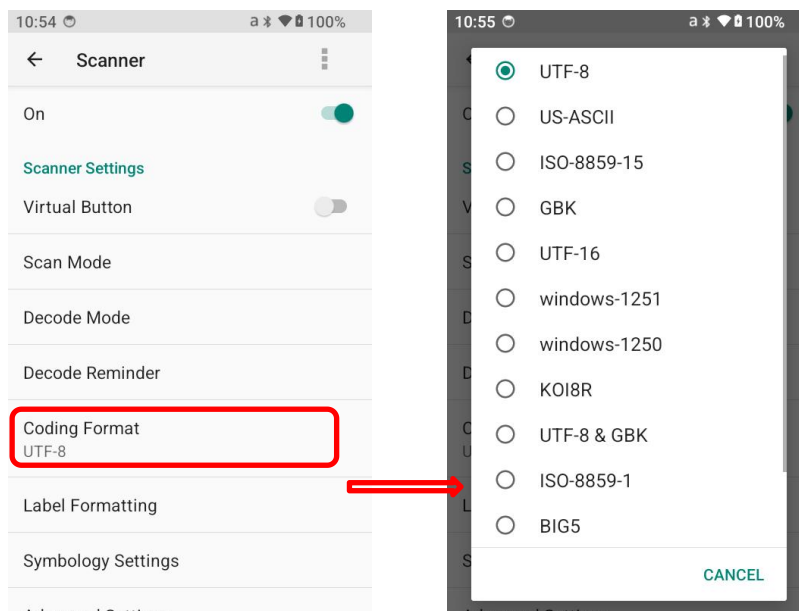


8.1.8 Coding Format

Various encoding formats are available, and the encoding method compiles English, Chinese characters and symbols in a coded format for data transmission. If the commonly used encoding method cannot be read, it can be replaced by other encoding methods.

Encoding formats include: UTF-8, US-ASCII, ISO-8859-15, etc..

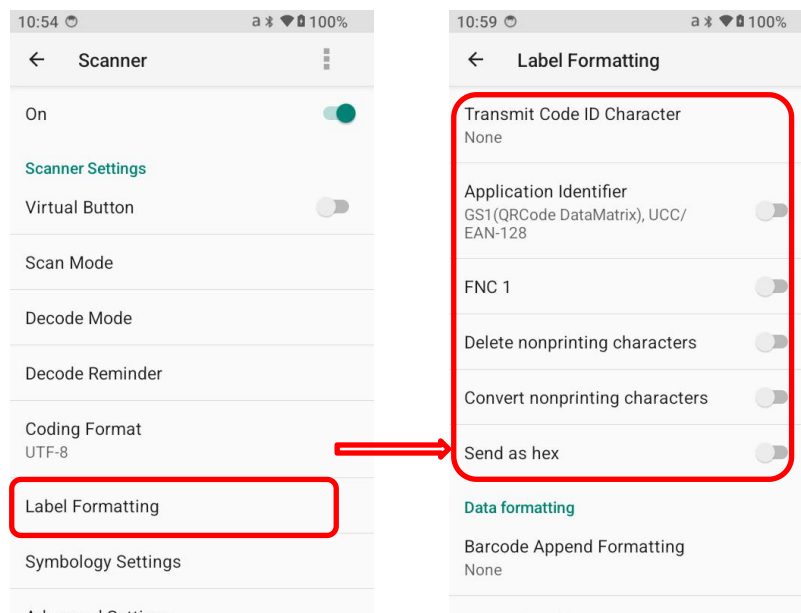
Recommended UTF-8 (Unicode Transformation Format-8) is a Unicode character encoding scheme, which is currently one of the most commonly used character encoding.



8.1.9 Label Format

8.1.9.1 Barcode Processing Setup

- 1) Transmit Code ID Character : None, AIM Code ID Character, Symbol Code Character, Symbol C haracter And AIM. Output code type, recommended output recommended selection None, will generate daily read without translation of the text.
- 2) Application Identifier: An Application Identifier (AI) is a string of numeric characters, usually surrounded by parentheses and located at the beginning of a barcode. Each Application Identifier has a specific meaning and purpose and is used to indicate the type and information of specific data in the barcode. They provide context and interpretation of the barcode data and help the decoder to correctly parse and process the barcode information. Identifying a specific QR code can be seen.
- 3) Delete nonprinting characters: Refers to formatting output between deleted characters.
- 4) Send as hex: output is in hexadecimal instead of decimal.

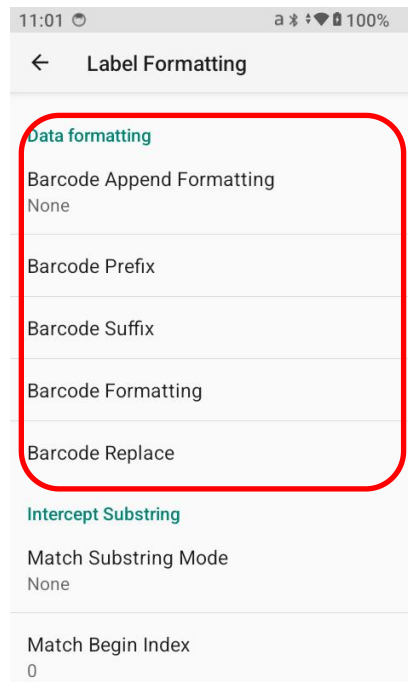


8.1.9.2 Data formatting

- 1) Barcode Append Formatting: None, Prefix, Suffix etc. multiple options.
- 2) Barcode Prefix: Barcode data additional processing optional plus prefix. The content filled in the current position is added in front of the recognized code.
- 3) Barcode suffix: Add suffix to the barcode data additional processing check box. The content filled in the current position is added after the recognized code.
- 4) Barcode Formatting: Matching regular expression selected for additional processing of barcode data.

Regular expressions are text patterns consisting of common characters as well as special characters (called “metacharacters”). If the barcode matches, the output matches the content; for example, using a regular expression to match the pure numbers, then only the output of the barcode in the digital part of the other filtered out; if it does not match the output of the original barcode.

5) Barcode Replace: Barcode data additional processing of the selected character replacement. The content filled in the current position will replace the original character with the content of the replacement character.



8.1.9.3 Intercept Substring

1) Match Substring Mode: None, Begin, Match Substring, Remove The Front Characters, Remove The Back Characters, Remove The Front And Back Characters.

2) Match Begin index: Select 'Match Substring Mode' as 'Begin'. Initial index means from how many bits to start displaying the next string.

3) Substring Length: Select 'Match Substring Mode' as 'Begin'. The intercepted length is the length of the remaining characters.

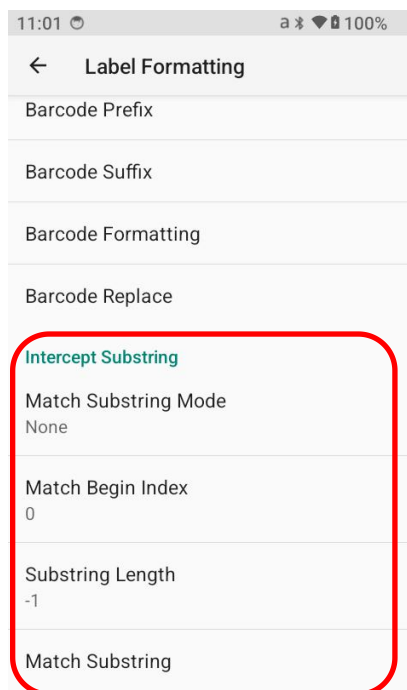
4) Match Substring: Select 'Match Substring Mode' to match string. Characters following the position of the first matched string are displayed in the sweep output box.

5) Remove The Front Characters: Select 'Match Substring Mode' as 'Remove The Front Characters'. Fill in the number represents the length of the string in front of the deletion.

6) Remove The Back Characters: Choose 'Match Substring Mode' as 'Remove The Back Characters'. The number filled in represents the length of the string after the deletion.

7) Remove The Front And Back Characters: Choose 'Match Substring Mode' as 'Remove The Front And Back Characters'. The number filled in represents the output

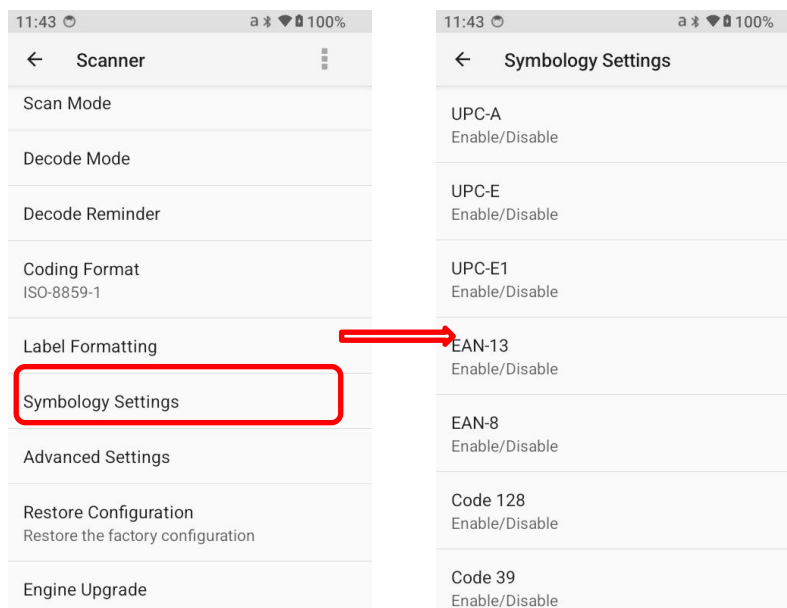
of removing the front length string and removing the back length string.



8.1.10 Symbology Settings

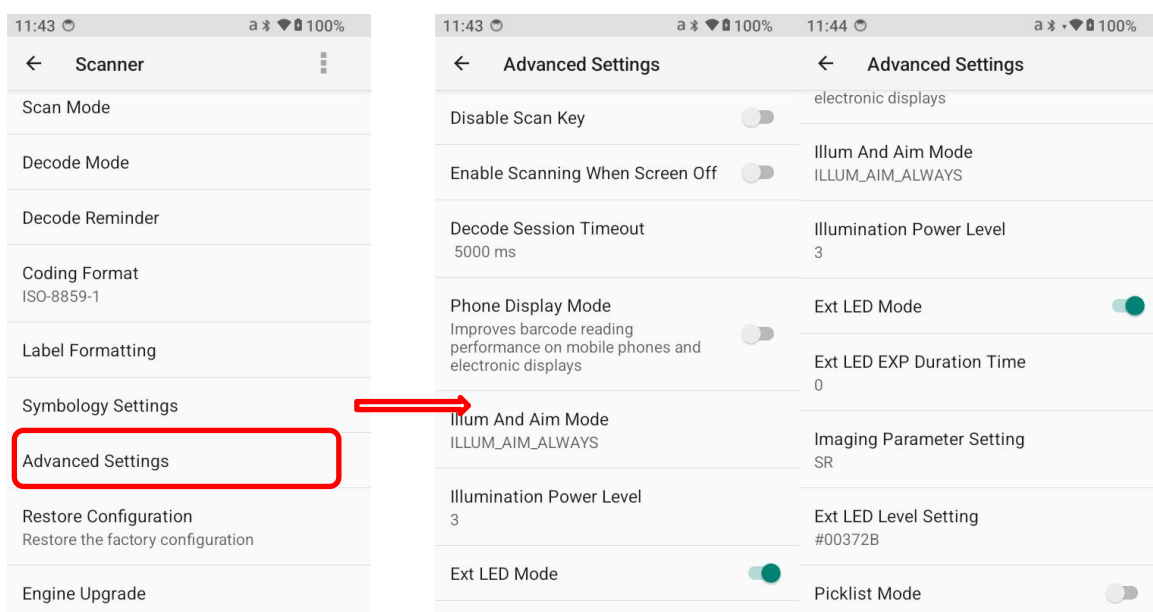
You can turn on or off many supported decoding methods, including UPC-A UPC-E, EAM-13, Code 128 and so on. Turning on too many may affect the decoding speed, and the default on setting is common code.

You can also set the length, whether to pass the parity bit, whether to invert, whether to invert the color and other detailed parameters.



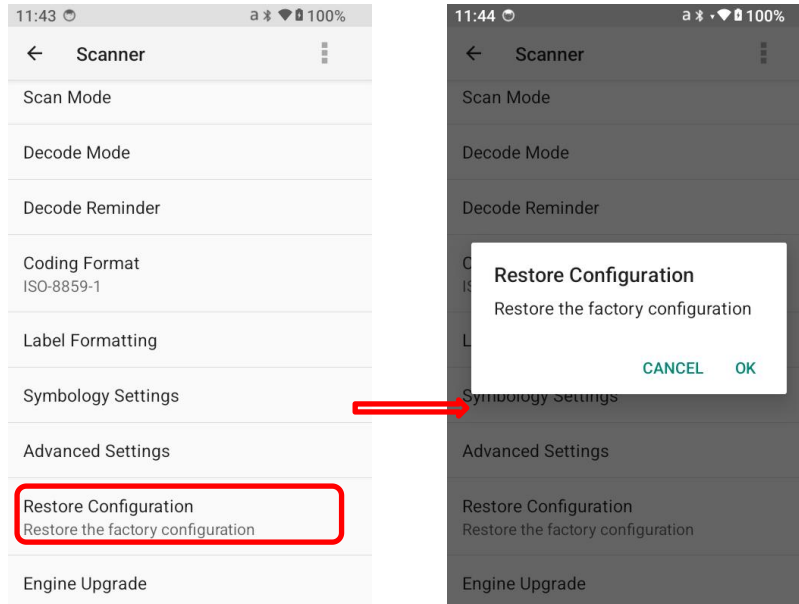
8.1.11 Advanced Settings

- 1) Disable Scan Key: Cannot recognize the code with the scanning head after opening.
- 2) Enable Scanning When Screen Off: After resting the screen, press the scanning key can still be out of the light.
- 3) Decode Session Timeout: support 100ms to 5000ms duration, the shorter the time, the faster to recognize the code.
- 4) Phone Display Mode: Enhance the device to read the barcode on the cell phone screen. Faster and more accurate reading of the code displayed on the phone.
- 5) Illum And Aim Mode: can set the scanning head fill light and aim. Recommended complementary light and aiming constants, can help you in the dark environment can also be accurately recognized.
- 6) Illumination Power Level: It can support 1-3 brightness adjustment.
- 7) Ext LED Mode: Enhance the brightness of the fill light when it is turned on.
- 8) Ext LED EXP Duration Time: Set the auxiliary time of auxiliary fill light.
- 9) Image Parameter Setting: SR, HD. SR refers to super resolution technology, used to enhance the resolution and details of the image; while HD refers to high-definition images or videos with higher resolution, providing clearer visual effects.
- 10) Ext LED Level Setting: You can set the color setting of the external fill light.
- 11) Picklist Mode: Enable to support laser-assisted aiming.



8.1.12 Restore Configuration

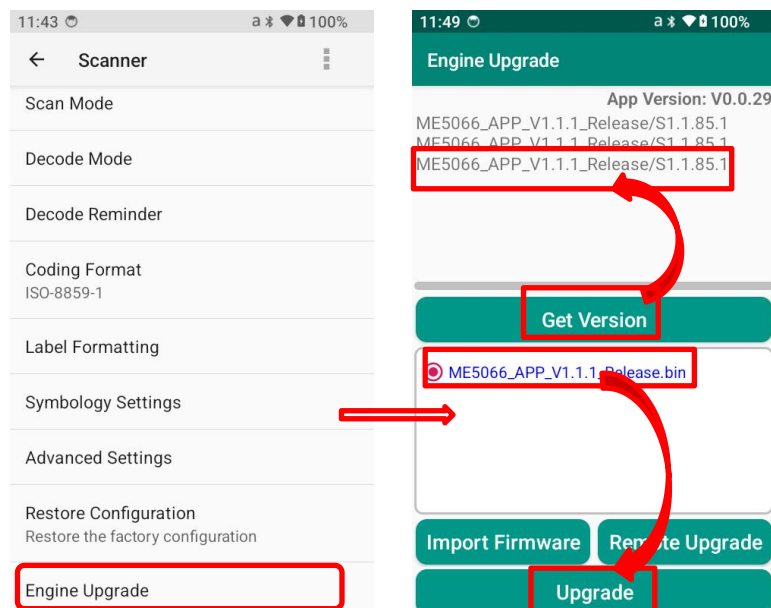
After clicking Confirm, the user settings are reset and the scanning configuration is restored to the factory state. Helps to quickly update the wrong settings, without the need for tedious manual restoration of the configuration.



8.1.13 Engine Upgrade

The top right corner 'APP Versio:V0.0.29' is the latest APP version. Click 'Get Version' to get the current firmware version of the scanning head. For example, 'ME5066_APP_V1.1.1_Release bin' is the latest upgradable firmware version of the scanning head, if the obtained version is not consistent with the firmware version, you can click 'Upgrade'.

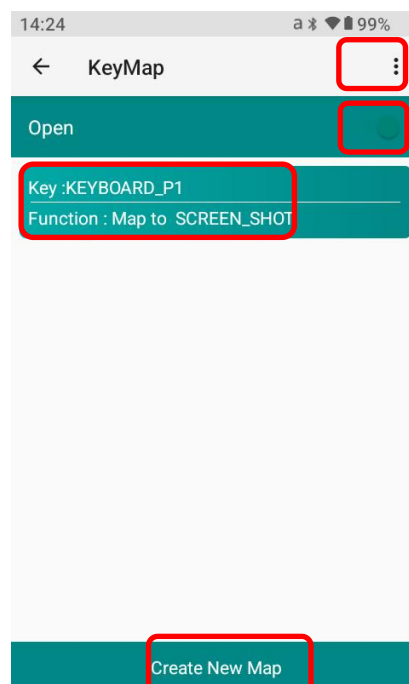
Also support 'Import Firmware' and 'Remote Upgeade' two upgrade methods.



8.2 KeyMap

8.2.1 Key Mapping Settings

- 1) Click the upper right corner to clear all mapping settings.
- 2) Click 'Open' for the mapping content to take effect.
- 3) Long press the mapping module to delete the mapping module.
- 4) Click 'Create New Map' at the bottom to create more mappings.

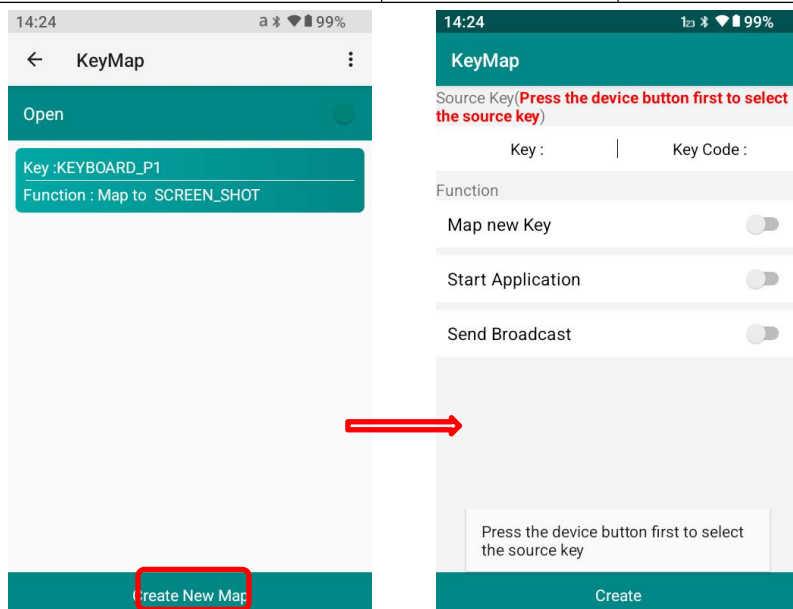


8.2.2 Create New Map

'Create New Map' can map all keys including side keys, virtual keys (BACK, HOME, MEUN). Functions after key mapping: including mapping to new keys and launching applications, enabling sending broadcasts, and also intercepting messages with code.

Mapping new keys			
0-9	Digital key	F1-F2	Function key
HOME	Back to main page	BACK	BACK

MEUN	Wake-up menu	ENTER	ENTER
MINUS	horizontal coordinate line	ESCAPE	ESC
SCAN-0	left scan button	SCAN-1	right scan button
SCAN-2	main scanning key	SCAN-3	\
VOLUME-UP	Turn up the volume	VOLUME-DOWN	Turn down the volume
APP-SWITCH	Nearest working window	SCREEN-SHOT	screenshot
KEYBOARD-PTT	PTT Key		



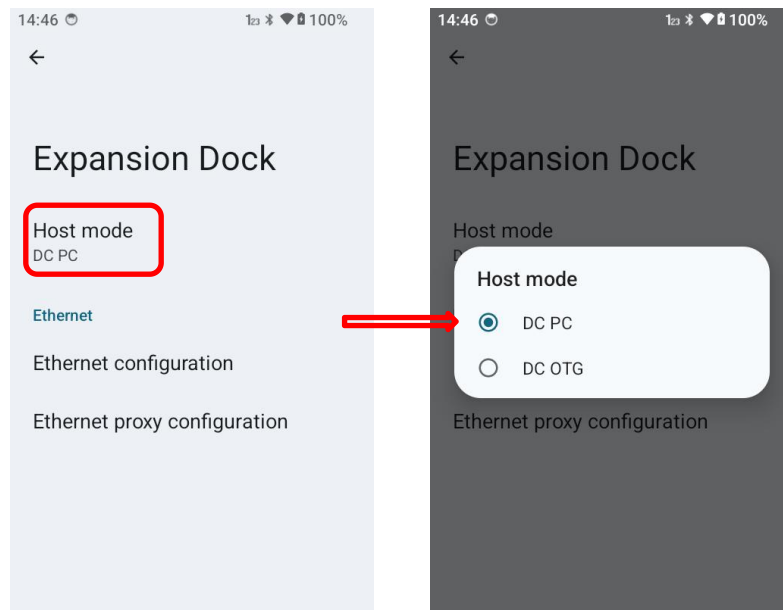
8.3 Expansion Dock

8.3.1 Host mode

Host mode can be 'DC PC' or 'DC OTG'.

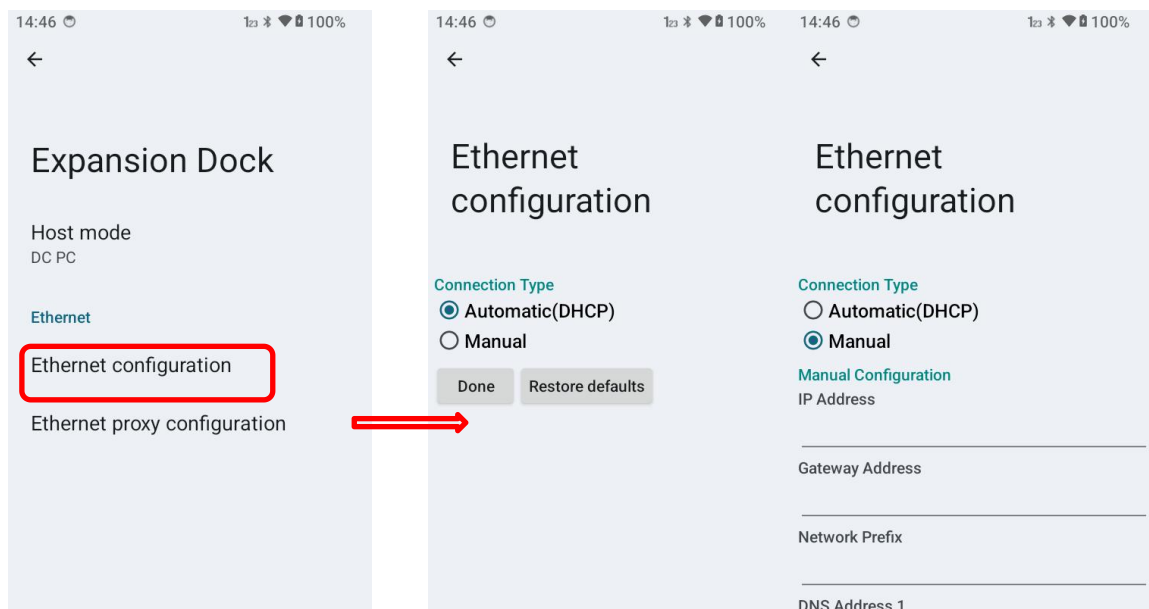
'DC PC' mode: Select this mode when the device is connected to a computer via USB.

'DC OTG' mode: Select this mode when the device is connected to the charger in order to connect to a computer, Ethernet, USB flash disk, etc. via the charger.



8.3.2 Ethernet configuration

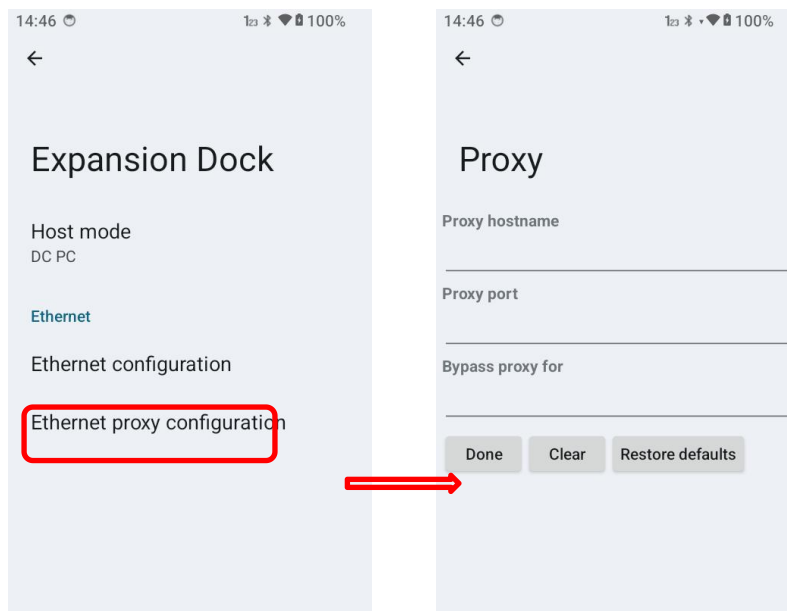
You can perform Ethernet configuration of Expansion Dock, set the connection method to Automatic (DHCP) or Manual, and configure the IP Address, Gateway Address, Network Prefix, and DNS via 'Manual'. Address, Gateway Address, Network Prefix and DNS Address through 'Manual'.



8.3.2 Ethernet proxy configuration

You can set the proxy settings for Expansion Dock , configure Proxy hostname, Praxy port, and Bypass

Praxy for.



8.4 Device Manager

8.4.1 Key Control

1) Advanced Settings

- Disable Taskbar: Disable the status bar drop-down function when it is turned on
- Disable Back Button: When enabled, the virtual left button is blocked, and there is no function to go back.
- Disable Home Button: Disable virtual center button, no function to return to home page.
- Disable Task Button: The virtual right button is blocked when it is turned on, and the recent work window button has no function.

2) KeyCode Settings

- Disable Scan Keycode passed to the application: after opening, the screen application cannot receive the value of the pressed scan key. For example, the scan key cannot be mapped in the key mapping.

3) KeyBoard Settings

- Keyboard One-Touch Switch: When enabled, the FN can switch between uppercase, lowercase and numeric keys.

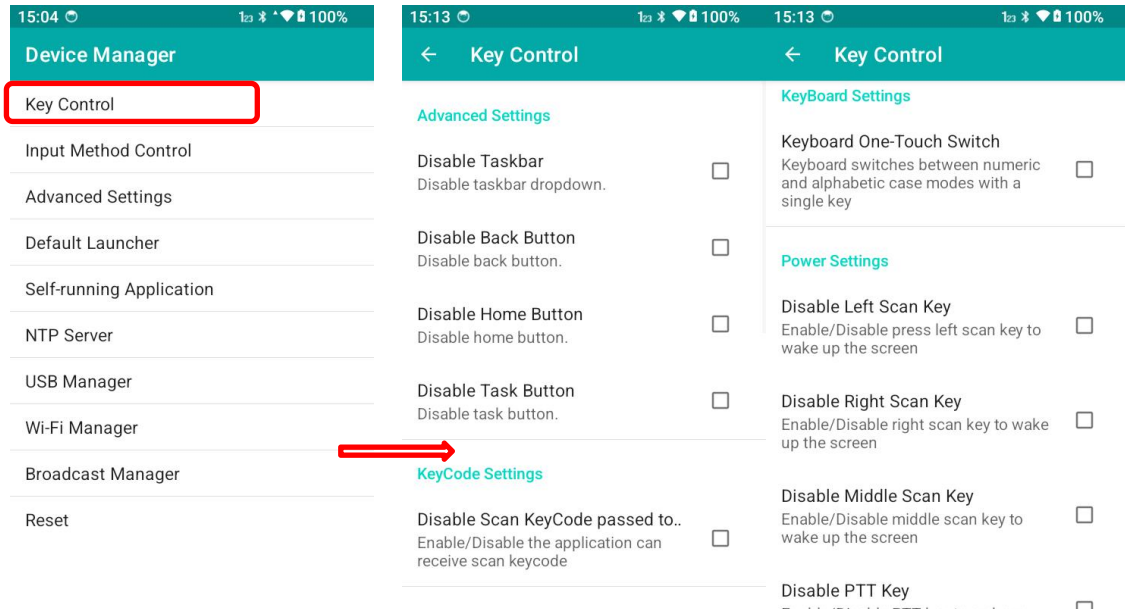
4) Power Settings

- Disable Left Scan Key: Mask pressing the left scan key to wake up the screen.
- Disable Right Scan Key: Disable pressing the Right Scan Key to wake up the screen.

- Disable Middle Scan Key: Mask pressing the Middle Scan Key to wake up.
- Disable PPT Key: Mask pressing the PPT key to wake up the screen.

5) Handle Key

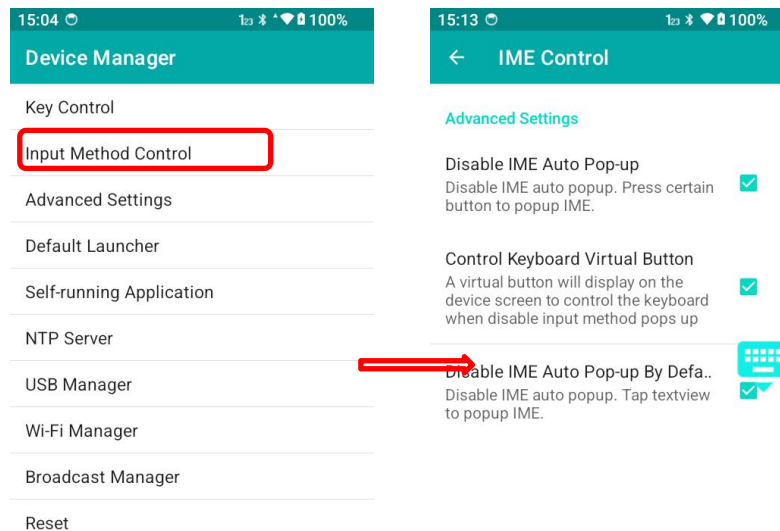
- Trigger Photo: If the device is installed with a handle, turn on this option to trigger and click the handle button to take a photo in the camera interface.



8.4.2 Input Method Control

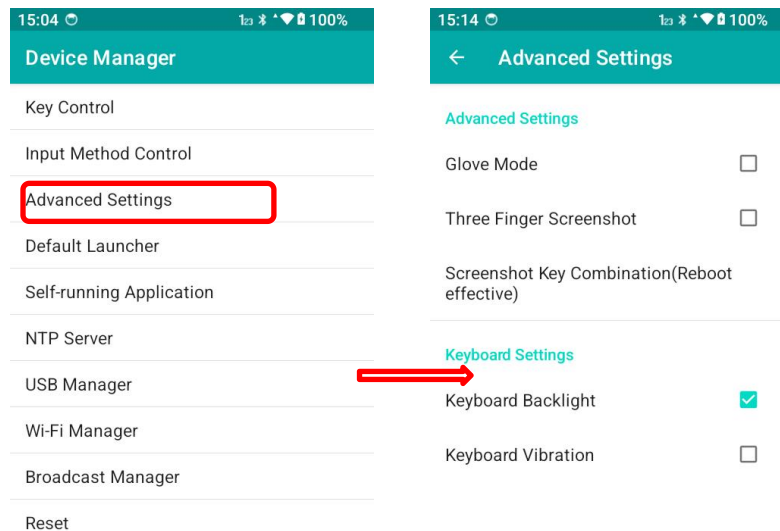
You can control the input method popup of your device, and the following settings are currently supported:

- 1) Disable IME Auto popup: Press certain button to popup IME/Control Keyboard Virtual Button;
- 2) Disable IME Auto Pop-up By Default. Tap textview to popup IME.



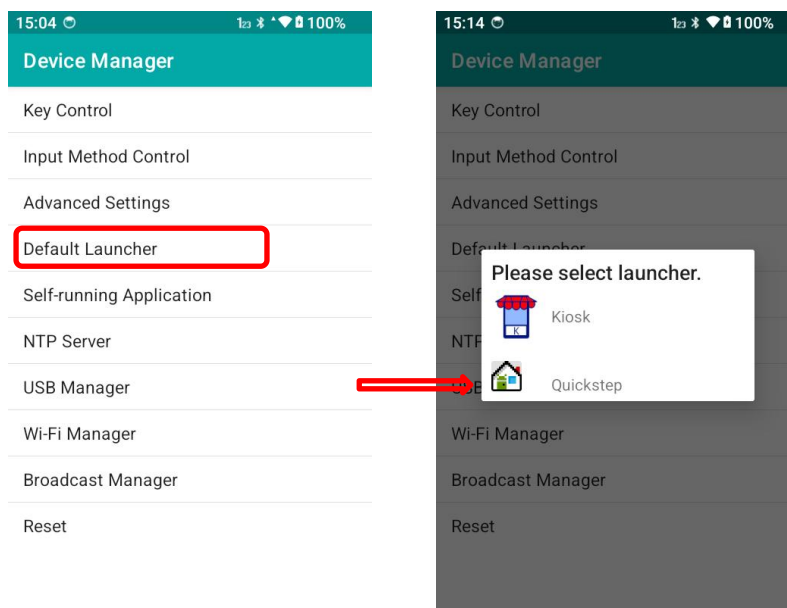
8.4.3 Advanced Settings

- 1) Glove Mode: Tap to switch on/off Glove Mode, which supports touching the screen with gloves.
- 2) Three Finger Screenshot: You can click to switch on the Three Finger Screenshot mode, which enables you to slide your finger to take screenshots in any interface.
- 3) Screenshot Key Combination (Reboot effective) : You can set two keys as the combination of screenshot.
- 4) keyboard Backlight: You can click on the keyboard backlight to turn on the keyboard backlight, and then click on any keyboard button to make the keyboard light up.
- 5) Keyboard Vibration: You can click to switch the keyboard vibration, click any keyboard button to vibrate the device after you turn it on.



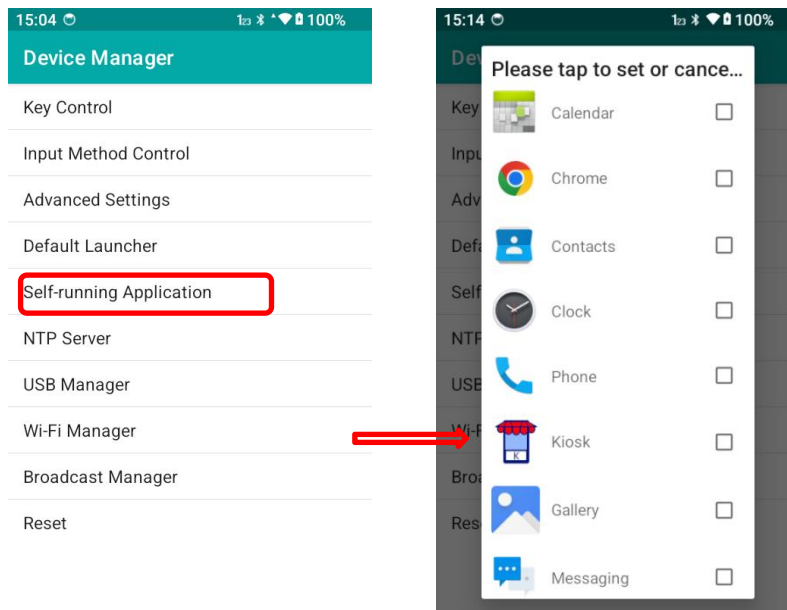
8.4.4 Default Launcher

The default desktop is 'Quickstep', you can also set the default desktop to the corporate desktop 'Kiosk' here.



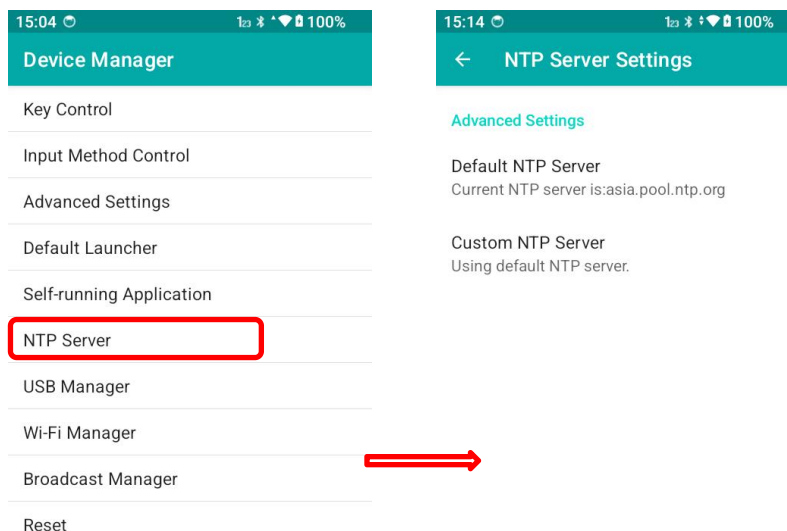
8.4.5 Self-running Application

You can set the default self-starting applications for the device to boot up. You can set more than one self-launching apps, and the self-launching apps you set will be launched in order after the device is turned on. If you need to cancel the self-launching of the apps, just deselect them in this item.



8.4.7 NTP Server

You can select from 'Default NTP Server' or set your customized NTP Server. if you need to calibrate with the specified NTP Server in your working environment.



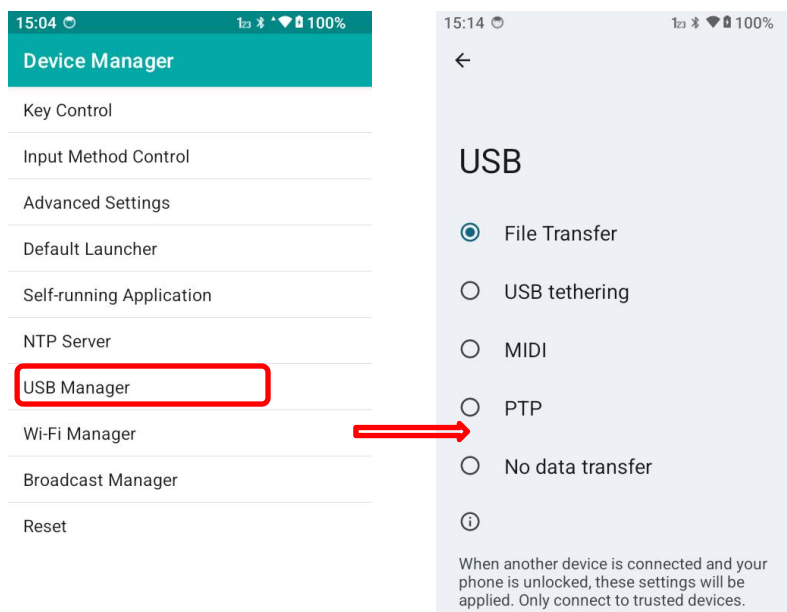
8.4.8 USB Manager

USB Manger needs to be set up when the device is connected to a computer, which allows the computer to operate the device.

1) File Transfer: When file transfer is selected, the computer can access and change the storage files

of the device.

- 2) USB tethering: Turns on USB network sharing, which allows you to share the device's network via USB cable.
- 3) MIDI: Allows various electronic musical instruments, computers and related devices to connect and communicate with each other.
- 4) PTP: High-precision time synchronization protocol.
- 5) No data transfer: Device connects to computer for charging only.



8.4.9 Wi-Fi Manger

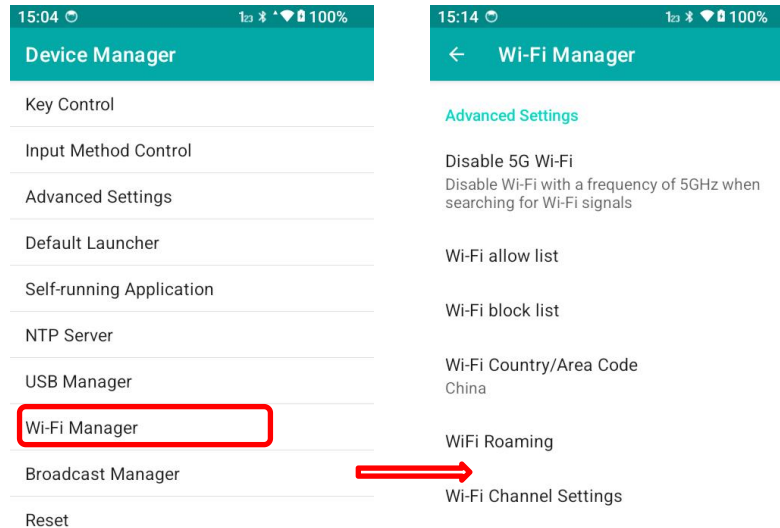
Wi-Fi Manger, you can make advanced settings for WiFi.

- 1) Disable 5G Wi-Fi: 2.4G only/5G only/Automaatic is optional, set the connectable Wi-Fi as 2.4G only/5G only/2.4G and 5G both. For example, when you select 2.4G only, the WLAN connection only searches the attached connectable 2.4G Wi-Fi, 2.4G and 5G mixed Wi-Fi, and cannot search the 5G Wi-Fi.
- 2) Wi-Fi allow list: SSID whitelist is filled with the specified Wi-Fi, only the Wi-Fi connections in the whitelist are supported when enabled. Other Wi-Fi connections are not supported.
- 3) Wi-Fi block list: SSID black list is filled in the specified Wi-Fi, after enabling, it can not connect to the Wi-Fi in the black list, but other Wi-Fi can be supported.
- 4) Wi-Fi Country/Area Code: SSID black list is filled in the specified Wi-Fi, after enabling, it can not

connect to the Wi-Fi in the black list, but other Wi-Fi can be supported.

5) Wi-Fi Roaming: You can enter to set roaming difference, roaming threshold and so on.

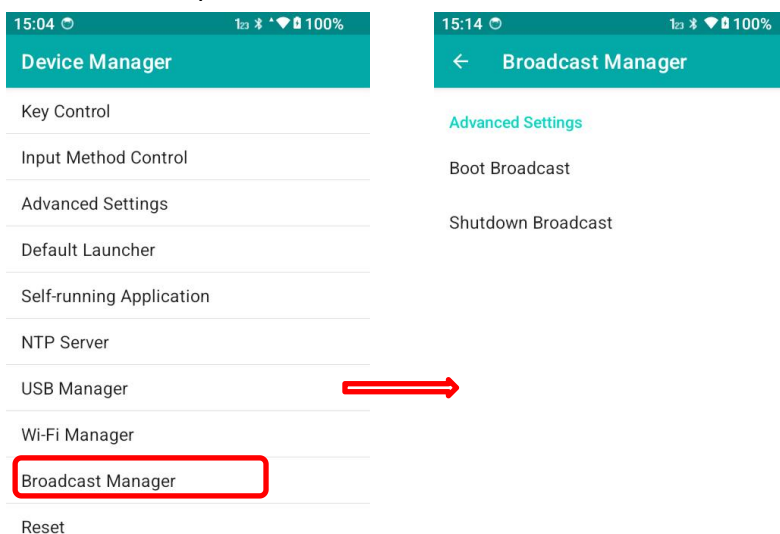
6) Wi-Fi Channel Settings: After setting, you can only connect to the selected channel, the unselected one cannot be connected.



8.4.10 Broadcast Manger

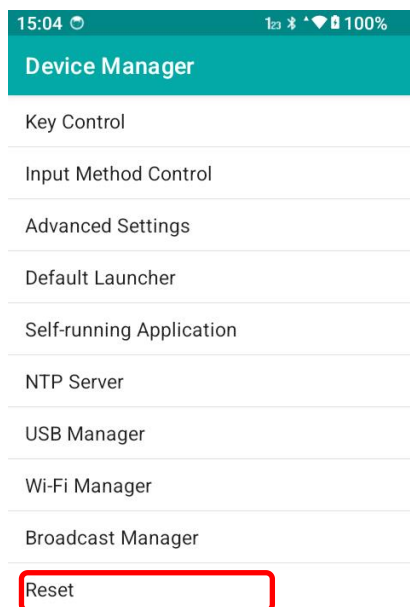
Boot broadcast: When a device boots up, a log is sent out via broadcast communication, allowing the device to exchange data without establishing a direct connection.

Shutdown Broadcast: When a device shuts down, the system sends out a specific broadcast that allows applications to listen and respond to this event.



8.4.11 Reset

After clicking 'Reset' all Device Manager by the device are restored to the factory state, and all modifications are canceled.



9 Hardware specification features

Performance Characteristics	
CPU	Octa-core 2.2 GHz
Operating System	Android 14
RAM	4GB (Optional 6GB, 8GB)
ROM	64GB (Optional 128GB, 256GB, 512GB)
Physical Characteristics	
Dimensions	212(W)×75(H)×32.5(T)mm
Weight	15.87oz. / 400g (Handle not included, Battery included)
Display	4.3 in., 800(H)×480(W) WVGA, industrial-grade IPS display.

Imager Window	Corning® Gorilla® Glass
Touch Panel	Corning® Gorilla® Glass Capacitive touch panel,Support Water&Gloves Touch Mode.
Backlight	450 NITS, LED.
Power	Removable lithium-ion battery, rated capacity 6800mAh, support for battery replacement without disconnection. 9V/2A 18W PE fast charging (optional).
Backup Power	Supercapacitor, supports power change without shutting down.
Expansion Ports	MicroSD card, support SDHC, SDXC, up to 512GB.
Expansion Ports	2 Pin Rear connection: Trigger key signal. 4 Pin Bottom connection: Charging port 5V/2A,Support USB communication and OTG mode.
SIM Slots	1 x Nano SIM,Optional 1x PSAM.
Notifications	Beep; Multi-color LEDs (System Alert Light, Heat Alert Light, Scan Light); Vibration Motor.
Network Connections	2G/3G/4G , Wi-Fi, Bluetooth , Support Ethernet Dock.
Voice and Audio	Speaker, Receiver, Dual Mic,USB Type-C headset support.
Keypad	38 keys isolation keyboard , two side scan key; optional 47 keys / 29 keys.
Interface Ports	Bottom USB 2.0, OTG - host/client (Type-C).
Data Capture	
Sensor	Proximity sensor, Light sensor, Accelerometer , Gyroscope, Compass,IR(optional).
Scanning	ME5066/SE4750/SE5500/EX30etc.professional 2D scanning engine.
Camera	Front 5 MP fixed focus; f/2.4 aperture. Rear 13 MP auto focus; f/2.2 aperture; Flash LED. (with handle: rear camera and sweeping head combined in scanning position / without handle: rear camera on the back)
NFC	High RF output power; ISO15693、ISO14443A/B、MIFARE: Mifare S50,Mifare S70,Mifare UltraLight,Mifare Pro,Mifare Desfire 、FeliCa Supported cards .
GPS	

Positioning System	GPS-L1 suport A-GPS、Glonass、BeiDou、Galileo、QZSS、SBAS.
Wireless LAN	
Radio	IEEE 802.11 ac/a/b/g/n/d/e/h/i/j/k/r/v/w (2.4G/5G Dual band WI-FI)
Fast roam	Supports 802.11r Fast Roaming.
Wireless PAN	
Bluetooth	BT5.2+BR/EDR+BLE
Communication distance	>10m
Wireless WAN	
WAN Radio Frequency	TDD-LTE(B34/B38/B39/B40/B41) FDD-LTE(B1/B2/B3/B4/B5/B7/B8/B12/B13/B17/B19/B20/B25/B26/B28A/B28B/B66/B71)) WCDMA(B1/B2/B4/B5/B6/B8/B19) TD-SCDMA(B34/B39) CDMA2000 1x EV-DO Rev.A BCO (800MHz) CDMA 1x: BCO GSM/EDGE/GPRS(850/900/1800/1900)
User Environment	
Operating Temp	-20℃ to +50℃
Storage Temp	-40℃ to +70℃
Humidity	5% to 95% , non-condensing.
Sealing	IP68
Drop Specification	Withstands multiple falls from a height of 1.8 m onto a concrete floor.
Tumble Specification	Withstand 2000 drops of 0.5m .(1000 rolling impacts)
Electrostatic Discharge	+/-15 kV air discharge, +/-8 kV direct discharge.
Accessories	
Standard	Adapter Charger ×1、USB Type-C cable ×1、Rechargeable Battery ×1、Hand Strap×1 (Without handle) /lanyard x1 (Includes handle)

Optional	Single-Slot Charge (USB/Ethernet) 、 Snap on Trigger Handle、 OTG Cable.
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10 common problems

10.1 unable boot up

- 1) Please check if the battery is charged;
- 2) Please check if the battery is installed correctly;
- 3) Charge it with the power adapter, check if the indicator light is red in the off state, and try to turn it on again after 10 minutes of charging.

10.2 The screen does not display properly

- 1) Screen splash screen, white screen, black screen please restart the device. If there is no change, please try to restore the factory settings or re-flash the version;
- 2) Screen touch shifting or unable to touch, check if there is any foreign matter on the screen, clean the screen; try to turn off and turn on the device again, restore the factory settings, or refresh the device.

10.3 Scanning problems

- 1) Outgoing light is not decoded:
 - A. Reset the scanning head;
 - B, set to the corresponding output mode;
 - C, restart the device;
 - D. Confirm whether the bar code is damaged;
 - E. Confirm whether it is in the correct scanning range and distance;
 - F. Confirm whether the bar code is the type of bar code that can be recognized by this equipment.
- 2) No light or abnormal light:
 - A. Reset the scanning head or restore the device to factory settings;

B. Clean the scanning window;

Notes:

- 1) Do not look directly at the laser to avoid eye injury;**
- 2) Keep the scanning window clean and free of dirt;**
- 3) Avoid bumping the scanning head.**

10.4 Wi-Fi connection

- 1) Check the network signal strength (more than 2 frames is strong enough);
- 2) First check whether the encryption method is correct, i.e. check whether the encryption method of the handheld device and the local network are the same;
- 3) Check whether the password is correct;
- 4) Check whether the network is normal;
- 5) Cancel the network and reconnect it (double-click the network and click Cancel to save to remove the password).

Cautions:

- 1) Some obstacles (objects such as walls, metal and glass doors and windows) can weaken the Wi-Fi signal during Wi-Fi use;**
- 2) Exceeding the carrying capacity of the router may cause dropouts or failure to connect;**
- 3) Network storms and viruses may also affect Wi-Fi usage.**

10.5 SIM card without network

- 1) Check the local signal strength;
- 2) Check whether the SIM card is installed correctly; (pay attention to distinguish it from the SAM card)
- 3) Check whether the SIM card is in arrears, whether the Internet function is enabled or whether the SIM card is damaged (test whether the SIM card is damaged or in arrears by loading it into the cell phone);
- 4) Whether the access point is set correctly;
- 5) Make sure the mobile data port is open;
- 6) Restart the device.

10.6 camera problems

1) Camera does not display: Please check whether the camera lens is covered by foreign objects; restart the device, restore factory settings or brush, to rule out software-induced problems;

2) blurred photos: check whether the lens is dirty, clean the lens and whether the focus function is turned off, and adjust the distance and angle of the photos appropriately.

10.7 NFC card reading failure

1) Whether the RF card is placed in the card-swiping area;

2) reading distance is best within 5cm, reading speed can not be too fast (because the RF card power reading and writing process requires stable field strength power supply, otherwise it is easy to fail);

3) whether at the same time there are two or more radio frequency cards in the vicinity of the reading area;

4) whether the battery power is too low, such as power below 10% may lead to reading failure.