



Portable Code Scanner

User Manual

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Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 Danger	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
 Caution	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 Note	Provides additional information to emphasize or supplement important points of the main text.

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Chapter 1 Introduction

1.1 Product Introduction

Portable Code Scanner (hereinafter referred to as "device") is a code scanning device integrating with intelligent algorithm. It supports quick recognition of codes to improve the working efficiency.

1.2 Key Feature

- Professional code scanner, supporting one dimensional codes, QR codes, broken codes, crumpled codes, and defiled codes recognition.
- NFC patrol.
- OCR.
- Waterproof, dustproof, and drop resistant.

Chapter 2 Scan Settings

Tap **Code Scanner** to **Enable Scan**. Set scan parameters according to the actual scene. Then you can scan bar codes or QR codes to get the code information.

2.1 Set Scan Parameters

2.1.1 Set Scan Mode

You can set the scan button and the scan mode according to your actual needs.

Steps

1. Tap **Scan** → **Settings** .

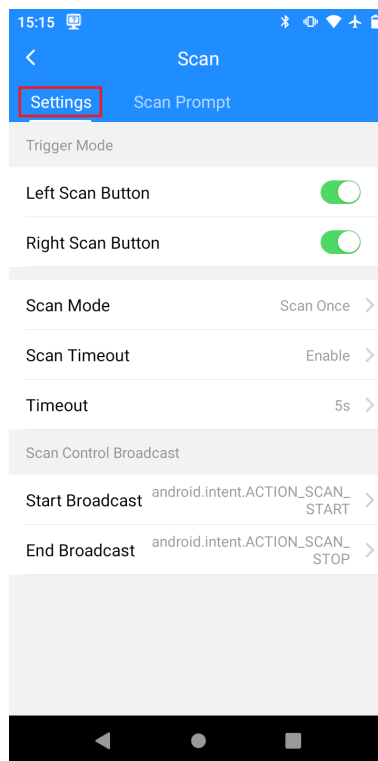


Figure 2-1 Set Scan Mode

2. Enable **Left Scan Button** or **Right Scan Button**.

You can press the scan button on the left/right side of the device to scan codes after setting.

3. Set **Scan Mode**.

- Scan Once**
- a. Select **Scan Once**.
 - b. Enable **Scan Timeout** if you want the device to disable scanning automatically. Disable **Scan Timeout** if you want the device to disable scanning when releasing the scan button.



Set **Timeout** if you enable **Scan Timeout**. The device will disable scanning automatically if it has not recognized the code information beyond the set timeout period.

- Continuous Scan**
- a. Select **Continuous Scan**.
 - b. Set **Scan Interval**. The device will scan continuously based on the set interval.
 - c. Set **Repeated Filter Timeout**. The device will only output the scan result once in the set timeout period if the result keeps the same.
 - d. Set **Timeout**. The device will lock the screen automatically beyond the set timeout period.

4. Optional: Set **Scan Control Broadcast** if you want to control the device to start/end scan via sending broadcast.

2.1.2 Set Scan Prompt

Set the prompt sound, vibration, or indicator if you want to get a prompt when you scan.

Steps

1. Tap **Scan** → **Scan Prompt** .

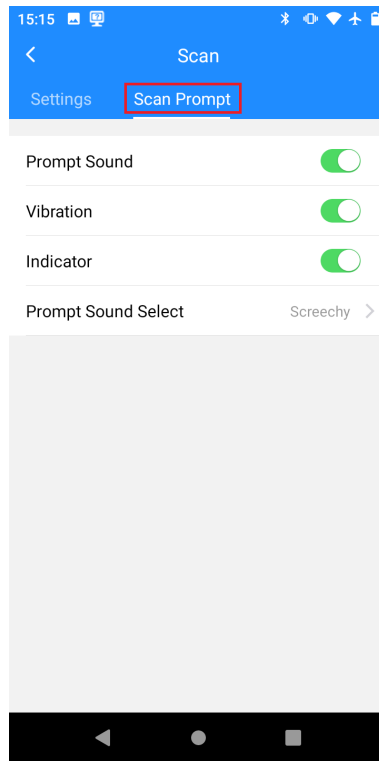


Figure 2-2 Set Scan Prompt

2. Enable **Prompt Sound**, **Vibration**, or **Indicator** as required.
3. **Optional:** Select the prompt sound if you enable **Prompt Sound**.

2.2 Set Output Parameters

2.2.1 Set Output Mode

You can set the output mode of the scan result.

Steps

1. Tap **Output Settings** → **Output Mode** .

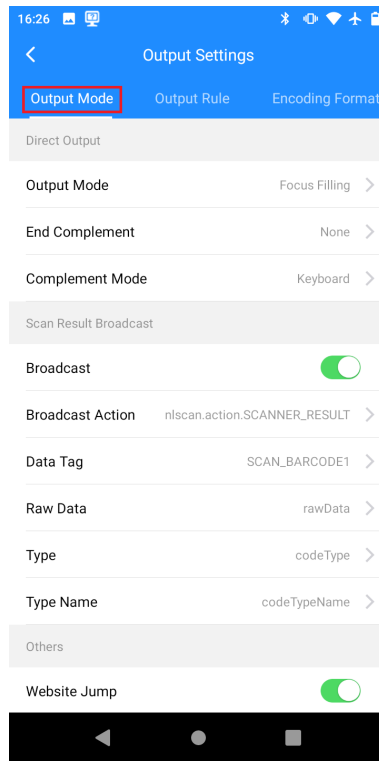


Figure 2-3 Set Output Mode

2. Set the output mode.

1) Set **Output Mode**.

Focus Filling

When scanning outside the scan page, if there are text fields on the current page, the scan result will be automatically output in the text field where the cursor is located.

Focus Coverage

When scanning outside the scan page, if there are filled text fields on the current page, the scan result will automatically cover the content of the text field where the cursor is located.

No Output

The scan result will not be output.

2) Set **End Complement**.

Note

When the output mode is focus filling or focus coverage, the set end complement will be added at the end of the scan result.

None

End complement will not be added at the end of the scan result.

Return

Add a carriage return at the end of the scan result.

Tab

Add a tab at the end of the scan result.

Space

Add a space at the end of the scan result.

3) Set Complement Mode.**Keyboard**

The scan result will be output to the text page simulating the keyboard.

Symbol

The scan result will be output to the text page simulating the input method. The complement symbol will be replaced with \t or \n.

Input Method

The scan result will be output to the text page simulating the input method.

3. Optional: Set Scan Result Broadcast according to the actual needs.

- 1) Enable **Broadcast**.
- 2) Set **Broadcast Action**, **Data Tag**, and other parameters.

4. Optional: Enable Website Jump.

If the scan result is a website, you will be automatically redirected to that website after scan.

2.2.2 Set Output Rule

You can set the output rule of the scan result.

Steps

1. Tap **Output Settings** → **Output Rule** .

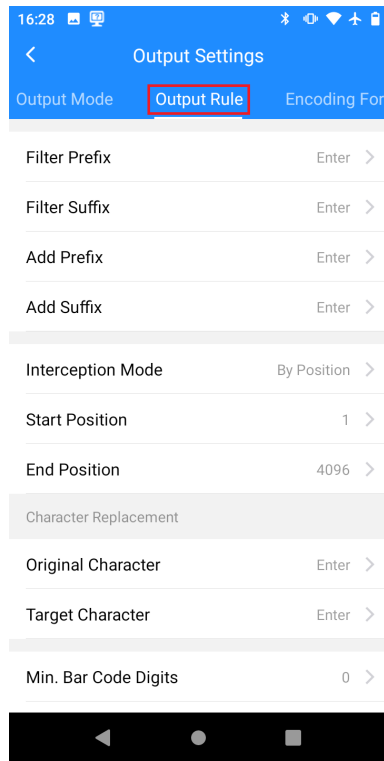


Figure 2-4 Set Output Rule

2. Set the parameters below.

Filter Prefix/Filter Suffix

The set prefix/suffix will be automatically filtered in the scan result.

Add Prefix/Add Suffix

The set prefix/suffix will be automatically added to the scan result.

Interception Mode

By Position

The scan result will be intercepted according to the set **Start Position** and **End Position**.

By Character

The scan result will be intercepted according to the set **Start Character** and **End Character**.

Original/Target Character

The scanning result will automatically replace the set **Original Character** as the **Target Character**.

Max./Min. Bar Code Digits

If the scan result is shorter than the set min. bar code digits or longer than the set max. bar code digits, it will not be output.

3. **Optional:** If you need to split the data according to the GS1 format when you scan the barcode in GS1 format, enable **GS1 Application Identifier Separation**.

- 4. Optional:** If you need the device to perform force parity bit handling for barcodes with parity bits, not to recognize barcodes with incorrect parity bits and no parity bits, enable **Barcode Parity Bit Handling**.

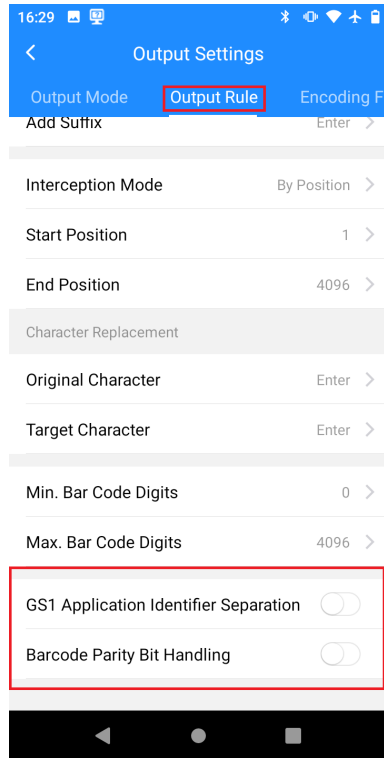


Figure 2-5 Optional Operations

2.2.3 Set Encoding Format

You can set the encoding format according to the actual needs.

Steps

1. Tap **Output Settings** → **Encoding Format** .

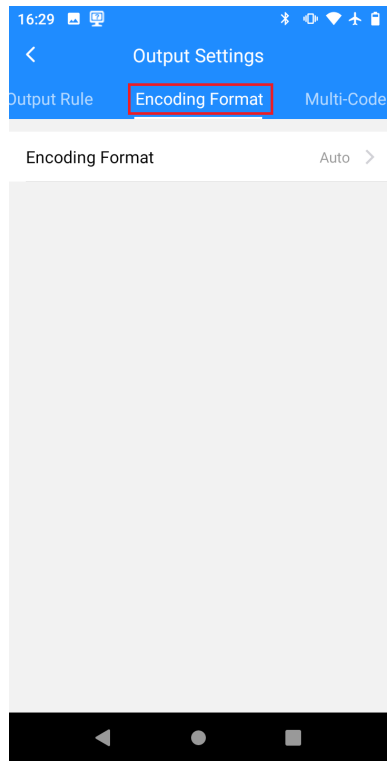


Figure 2-6 Set Encoding Format

2. Tap **Encoding Format** to select the encoding format.

2.2.4 Set Multi-Code Scan

You can set multi-code scan if you need to scan multiple codes at the same time.

Steps

1. Tap **Output Settings** → **Multi-Code Scan** .

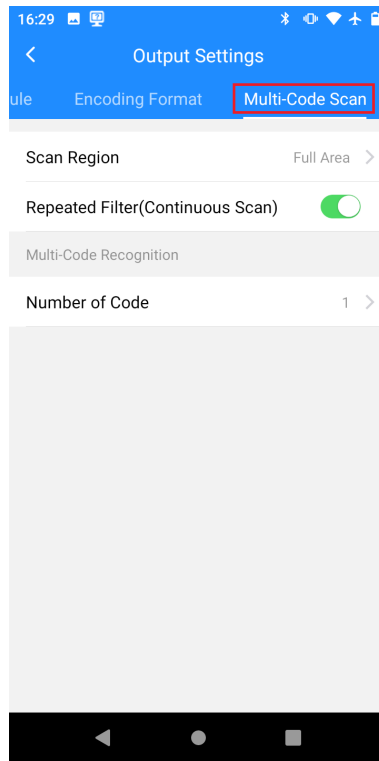


Figure 2-7 Set Multi-Code Scan

2. Select **Scan Region**.
3. Set **Number of Code**.
4. **Optional:** Enable **Repeated Filter (Continuous Scan)** as required.

 **Note**

Repeated Filter (Continuous Scan) is only available when the scan mode is continuous scan.

The similar scan result will be filtered out after enabling **Repeated Filter (Continuous Scan)**.

2.3 Set Code System

You can set the supported bar code type.

Steps

1. Tap **Code System**.

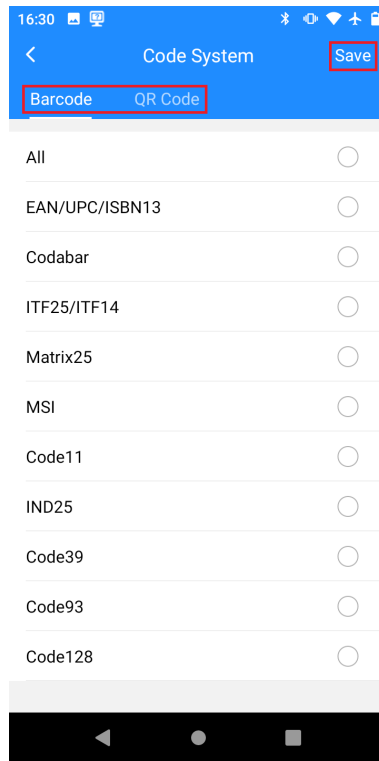


Figure 2-8 Set Code System

2. Select barcode types or QR code types according to the actual needs.
3. Tap **Save**.

2.4 Set Code Scanner

You can set the code scanner according to the actual needs.

Note

The original password of the device is 123456.

2.4.1 Set Code Scanner Parameters

You can set the supplement light, laser light, and other parameters of the code scanner as required.

Steps

1. Tap **Code Scanner** → **Settings** .

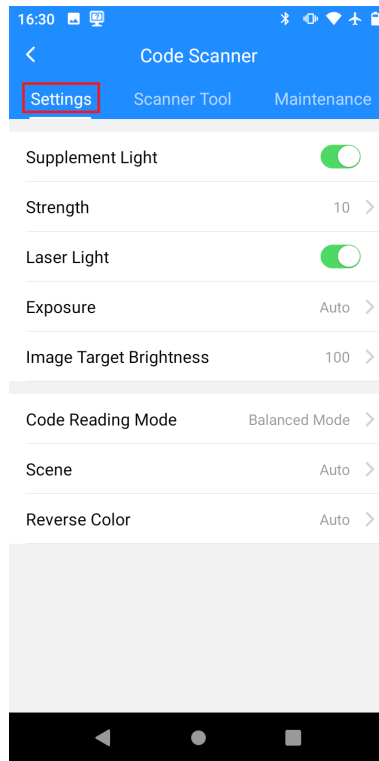


Figure 2-9 Set Code Scanner Parameters

- 2. Optional:** Enable **Supplement Light** and **Laser Light** as required, and set the corresponding parameters.

Strength

The higher the value, the higher the upper limit of automatic brightness adjustment of the supplement light.

Exposure

Manual

Tap **Exposure Time** and **Gain** to set the parameters manually.

Auto

The device will adjust **Exposure Time** and **Gain** automatically according to the actual scene.

Image Target Brightness

The larger the value, the higher the brightness of the image.

- 3. Optional:** Tap **Code Reading Mode** to select as required.

Balanced Mode

The device CPU and other resources will be used in balance mode.

High Performance Mode

The device CPU and other resources will be used mainly on scanning to improve recognition efficiency.

Quick Mode

Enable fast data reading and output.

4. Optional: Tap **Scene** and **Reverse Color** to select as required.

2.4.2 Set Scanner Tool

You can calculate code reading module size and calibrate laser via scanner tool.

Steps

1. Tap **Code Scanner** → **Scanner Tool** .
2. Tap **Calculate Code Reading Module Size** or **Laser Calibration**. Follow the instructions to operate.

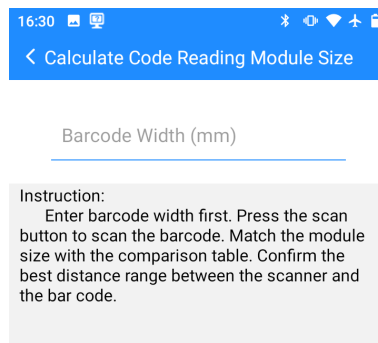


Figure 2-10 Calculate Code Reading Module Size

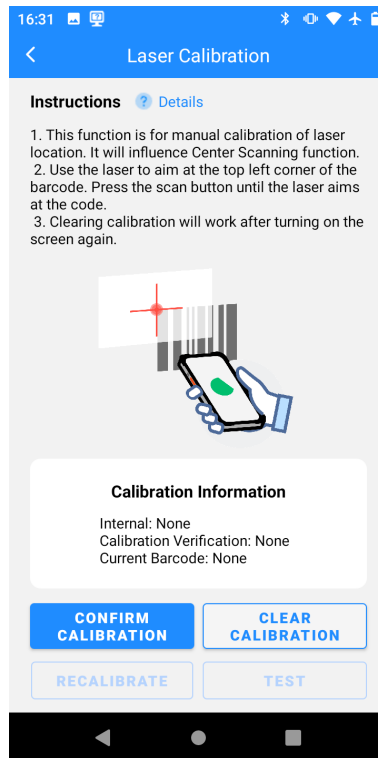


Figure 2-11 Laser Calibration

2.4.3 View Version Information

Tap **Code Scanner** → **Maintenance** to view the version information.

2.5 Set OCR Parameters

You can set the OCR parameters if you want to realize OCR.

Steps

1. Tap **OCR**.
2. Tap **Trigger Mode** to select the trigger mode.
3. If you want to recognize the data in specified Chinese or English mode, tap **Select Algorithm** to set as required.
4. Tap **OCR Rule** to set the OCR rule.
 - 1) Tap **Add New Rule**.
 - 2) Enter the new rule name. Tap **OK**.
 - 3) Tap **Add New String Format**.
 - 4) Select the string formats to add to **My Settings**.

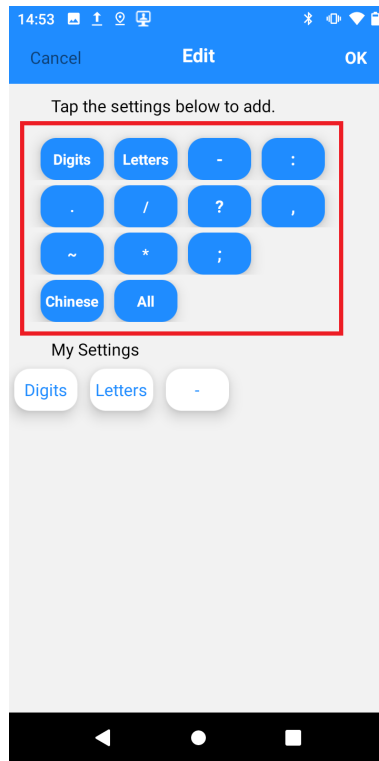


Figure 2-12 Add String Format

- 5) Tap **OK**.
- 6) Enable the rule that you need.
5. **Optional:** If you want to improve the accuracy of recognizing the laser-aimed string data, enable **Laser Aim**.

 **Note**

Enable **Laser Aim** after laser calibration.

-
6. **Optional:** If you want to save the picture information used for OCR to the "ocrtest" folder, enable **Recognition Capture**.

2.6 Set Other Parameters

You can enable password, scan preview, and other features for the device.

Steps

1. Tap **Others**.

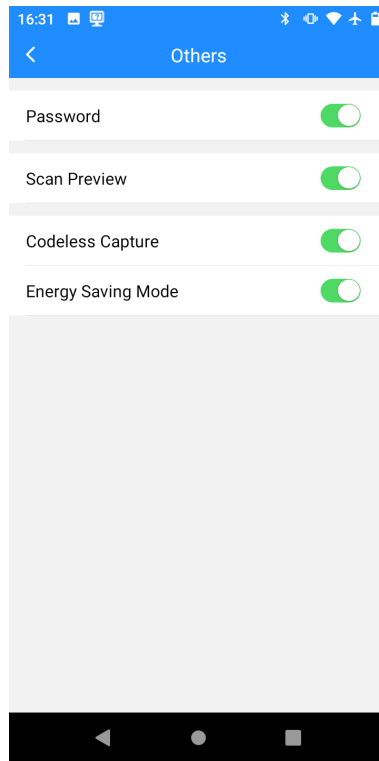


Figure 2-13 Set Other Parameters

2. Enter password. Tap **Login**.

Note

The original password of the device is 123456.

3. **Optional:** Set the parameters as required.

Password	You need to enter the password after enabling Password .
Scan Preview	You can preview the scanning result picture in real time on the scan test page.
Codeless Capture	When the device fails to recognize the QR code in the picture, it will save the picture and use the algorithm to analyze the reason.
Energy Saving Mode	The device defaults to energy saving mode, and the battery is consumed normally. If energy saving mode is turned off, the device will concentrate resources on scanning to improve scanning efficiency.

2.7 Quick Settings

You can import or export device settings via multiple methods.

Steps

1. Tap .

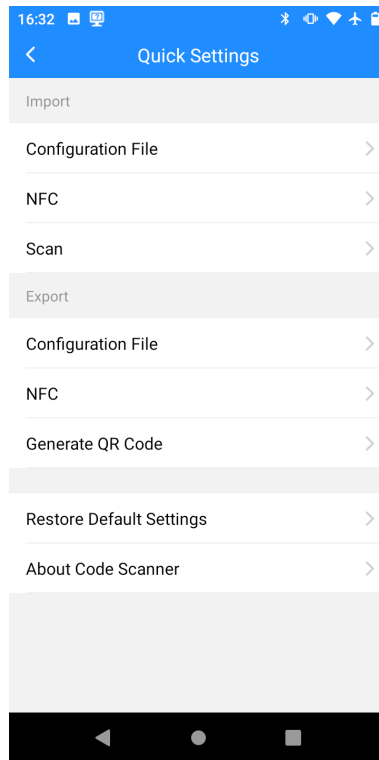


Figure 2-14 Quick Settings

2. Select the corresponding methods to import or export device settings as required. Follow the prompts to operate.
3. **Optional:** If you want to restore the device to default settings, tap **Restore Default Settings** and tap **OK**.
4. **Optional:** Tap **About Code Scanner** to view the current application version.

2.8 Scan Test

You can check the settings via scan test after completing scan settings.

Before You Start

Enable the scan function.

Steps

1. Tap **Scan Test**.

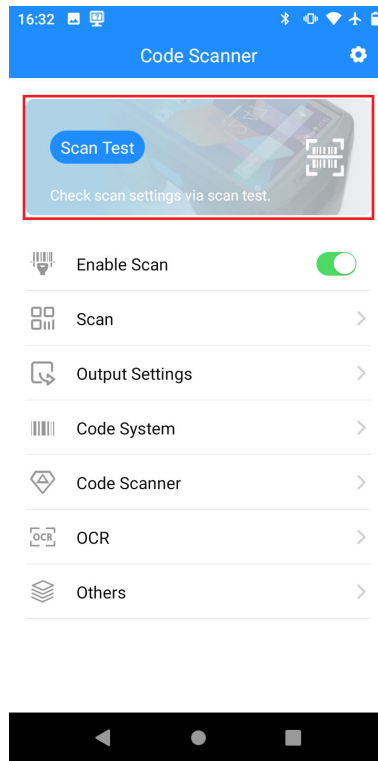


Figure 2-15 Scan Test

2. Press the scan button on the side of the device, and point the scan sensor to the code to scan.

Result

The scan result and time will be displayed on the scan page.

What to do next

You can use the device to scan codes after passing the test.

Chapter 3 Network Settings

3.1 Set Data Traffic

The device can be connected to the Internet using data traffic via SIM card.


Before You Start

Install the SIM card first.

Steps




You can install two SIM cards, or one SIM card and one SD card.

1. Tap  → **Network & Internet** → **Advanced** → **SIM Card** .
2. **Optional:** If you have installed two SIM cards, tap **Mobile Data** to select the preferred SIM card for connecting to mobile data networks.
3. Enable **SIM Slot 1** or **SIM Slot 2**.
4. Slide down notification center. Tap **Mobile Data** to enable data traffic.
5. **Optional:** Tap **Private DNS** to set the DNS mode if you want to access the Internet by domain name.

3.2 Set Wi-Fi

You can set Wi-Fi if you want to transfer data via Wi-Fi.

Steps

1. Tap  → **Network & Internet** .
2. Enable **Wi-Fi**.
3. Tap **Wi-Fi** to connect it.

- Connect to the searched Wi-Fi**
- a. Select Wi-Fi.
 - b. Enter the Wi-Fi password.
 - c. Tap **Connect**.

- Add new network**
- a. Tap **Add Network**.
 - b. Enter SSID.
 - c. Set **Security**.
 - d. Tap **Advanced options** to set **Proxy** and **IP Settings**.
 - e. Tap **Connect**.


3.3 Set Tethering

If you need to use the device as a hotspot to share network to other devices, you can set tethering.

Before You Start

Please ensure the device network is normal.

Steps

1. Tap  → **Network & Internet** → **Hotspot & Tethering** .
2. Select the tethering methods below.
 - If you want to share the network via Wi-Fi hotspot, tap **Wi-Fi Hotspot**. Enable **Wi-Fi Hotspot** and set the hotspot information.
 - If you want to share the network via the USB cable, enable **USB Tethering**.
 - If you want to share the network via Bluetooth, enable **Bluetooth Tethering**.


3.4 Set Bluetooth

You can use the device to communicate and transfer data with paired Bluetooth devices.

Before You Start

Prepare the device with Bluetooth.

Steps

1. Enter Bluetooth settings in the following two ways.
 - Slide down the notification center. Hold **Bluetooth**.
 - Tap  → **Connected Device** .
2. Tap the Bluetooth that you want in **Available Device** to pair.
The paired devices will be displayed in the **Currently Connected** list.

3.5 Set NFC

You can enable NFC if you want to exchange data with other devices via NFC.

Steps

1. Tap  → **Connected Device** → **Connection Preference** .
2. Enable **NFC**.

What to do next

Install payment application for NFC payment.

3.6 Set Android Beam

You can share files via Android Beam.

Steps

1. Tap  → **Connected Device** → **Connection Preference** → **Android Beam** .
2. Enable **Android Beam**.

3.7 Access System Management Platform

You can access the device to the system management platform.

Before You Start

- Please download the management software beforehand.
- Please ensure that the device network is normal.

Steps

1. Tap **Settings** → **System Management Platform** .
2. Enter the password.



Note

The original password of the device is 123456.


3. Tap **Confirm**.
4. Enable **ISUP5**.
5. Set **Platform Address**, **Platform Port**, and other parameters.

Chapter 4 System Settings

4.1 Manage Battery

You can enable battery saver and view battery percentage.


Steps

1. Tap  → **Battery** .
2. **Optional:** Enable **Battery Saver**.
 - 1) Tap **Battery Saver**.
 - 2) Tap **Set a Schedule**. Set the battery percentage below which the battery saver is enabled.
 - 3) Enable **Turn off when Fully Charged** according to actual needs.
The battery saver will disable automatically after the device is fully charged.
 - 4) Tap **Turn on Now**.
3. **Optional:** Tap **Battery Manager**. Enable **Use Battery Manager** to detect the battery consumption of the applications.
4. **Optional:** Enable **Battery Percentage** if you want the device to show battery percentage in the status bar.

4.2 Set Display Parameters

You can set display parameters.


Steps

1. Tap  → **Display** .
2. Set brightness level, screen timeout, display size, and other parameters.

4.3 Set Sound Parameters

You can set sound parameters.



Steps

1. Tap  → **Sound** .
2. **Optional:** Set media volume, call volume, ring volume, and alarm volume according to the actual needs.
3. **Optional:** Enable **Vibrate for Calls** if you need.

4.4 Manage Storage

You can view and manage storage space.


Steps

1. Tap  → **Storage** .
2. **Optional:** Tap **Free up Space** to clear the cache.
3. **Optional:** Enable **Storage Manager**. Tap  → **Remove Photos & Videos** to set the time beyond which the files will be deleted automatically.
4. You can view the storage space of different types of files.

4.5 Set Location

If you want to locate the device, enable location and set the parameters.

Steps

1. Tap  → **Location** .
2. Enable **Use Location**.
3. **Optional:** Tap **APP Permission**. Manage the location permission for applications according to the actual needs.
4. **Optional:** Tap **Wi-Fi and Bluetooth Scanning**. Enable scanning features if you need.

Wi-Fi Scanning

System applications and services will detect Wi-Fi network to improve location information accuracy.

Bluetooth Scanning

System applications and services will detect Bluetooth to improve location information accuracy.

Chapter 5 System Maintenance

5.1 Export Running Information

Technicians can export running information for troubleshooting and device maintenance.

Steps

1. Tap **Settings** → **Export Running Info** .
2. Select the exporting path.
3. Tap **Export**.

5.2 Upgrade Device System

You can upgrade the device system version.

Before You Start

Prepare the upgrade package.

Steps



Caution

The operating system only supports official upgrades. If you use a non-official system, you are responsible for any security risks or losses (possible risks include but are not limited to theft of user information, automatic sending of SMS, leakage of location, etc.).

1. Tap **Settings** → **Device Upgrade** → **Local Upgrade** .
2. Select the local upgrade package.
3. Tap **Install Now**.



Note

Do not operate during upgrading, or it may cause device exceptions (such as not being able to turn on the device), etc.

5.3 Set Shortcut Menu

You can set the shortcut menu.


Steps

1. Tap **Settings** → **Shortcut Menu** .
2. Enable the features based on the actual needs.

5.4 Restore Factory Settings

You can restore factory settings when parameters errors cause device exceptions.

Steps

1. Tap  → **System** → **Reset Option** .
2. Select the reset option.

Reset Wi-Fi & Mobile & Bluetooth

Reset the network and Bluetooth parameters.

Reset App Preferences

Reset all the app preferences.


Erase all Data (Factory Reset)

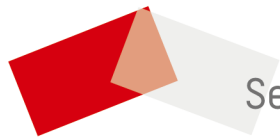
Erase all the data in the device storage space.

5.5 View Device Information

You can view the device information.

Steps

1. Tap  → **About Device** .
2. You can view the model, build number, etc.



See Far, Go Further