

Mobile Portable Terminal User's Manual

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Welcome

Thank you for purchasing our mobile portable terminal!

This user's manual will help you become familiar with our mobile portable terminal in a very short time.

Before installation and operation, please read the following safeguard and warning carefully!

Important Safeguards and Warnings

1 . Electrical safety

- All installation and operation here should conform to your local electrical safety codes.
- An apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.
- Use a power supply which meets the requirements for SELV (Safety Extra Low Voltage) and complies with Limited Power Source according to IEC 60950-1. Refer to the device label for detailed information.
- We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

2 . Transportation security

- Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3 . Installation

- Keep upwards. Handle with care.
- Do not apply power to the mobile portable terminal before completing installation.
- Do not place objects on the mobile portable terminal.

4 . Qualified engineers needed

- All the examination and repair work should be done by the qualified service engineers.
- We are not liable for any problems caused by unauthorized modifications or attempted repair.

5 . Environment

- The mobile portable terminal should be used in a cool, dry place away from direct sunlight, inflammable, explosive substances and etc.
- Always transport, storage, operate the mobile portable terminal in the specified working humidity and working temperature.

6. Accessories

- Be sure to use all the accessories recommended by manufacturer.
- Before installation, please open the package and check all the components are included:
- Contact your local retailer ASAP if something is missing in your package.

7. Lithium battery

- Improper battery use may result in fire, explosion, or personal injury!
- When replace the battery, please make sure you are using the same model!

**RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.**



Important

- Please set a password for **admin** if it is your first time to use the device. Change the password regularly to enhance device data safety.
- Note that the security and other related issues caused by the unchanged password shall be responsible for the user.
- Set password for your wireless network if you use the device with a wireless router. Being not protected with password or using the default wireless router password may expose your data to potential threat.

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others' such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

About the Manual

- The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the Manual.
- The Manual would be updated according to the latest laws and regulations of related regions. For detailed information, see the paper User's Manual, CD-ROM, QR code or our official website. If there is inconsistency between paper User's Manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the Manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.
- All trademarks, registered trademarks and the company names in the Manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

1 Product Introduction

1.1 Overview

This series product is a mobile portable terminal for persons of public security, insurance, traffic police and etc. It can realize audio/video record, snapshot, GPS, and video surveillance, record view and download, audio talk, emergency command via 3G/4G/Wi-Fi and etc.

The device is designed based on the Android OS. It realizes business rebuild and expansion via the security network to meet the mobile business requirements of various industries. It can enhance quick respond speed and general operation capability.

1.2 Specifications

Function	Specifications
OS	Android 5.1
LCD Module	4.0-inch TFT LCD, it is visible under the direct sunshine. 854*480
Light Sensation Sensor	Self-adaptive screen brightness
Touch Screen Module	4.0-inch capacitance touch screen., multiple-point touch screen
Memory	2GB RAM+32GB Flash, extendable storage. Max supports 128GB Micro SD card.
Video Encode Standard	H.264
Record Resolution	1080P, 720P, WVGA
Image Pixels	1.3MP
Audio	Audio/video sync record at the same time
Network	2G/3G/4G Wi-Fi: 2.4G/5G
Function	Bluetooth, fingerprint recognition, plate recognition, audio talk, one-touch activates an alarm, NFC
Positioning	GPS/Beidou/GLONASS
Port	HDMI input port / USB 2.0 port/Peripheral general port/Headphone jack/Peripheral camera port
Battery Capacity	Built-in high performance ultra-large lithium battery 4000mAh(default accessories)
Protection Level	IP66
Working Temperature	-10°C ~ +55°C
Humidity	10%—90%

1.3 General Structure

Please refer to the following figure for general structure information. See Figure 1-1 through Figure 1-3.

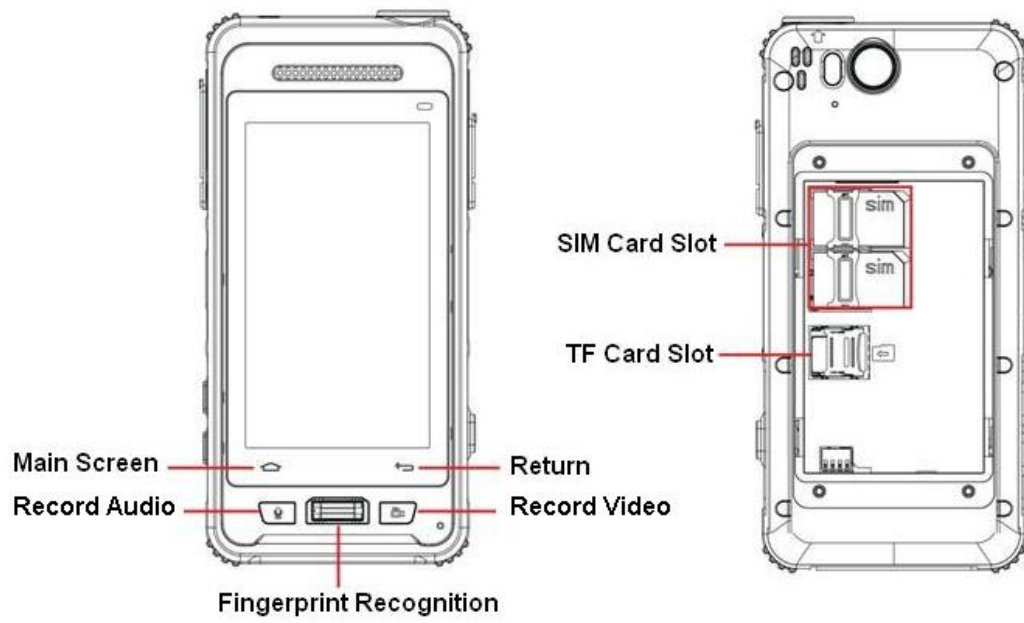


Figure 1-1

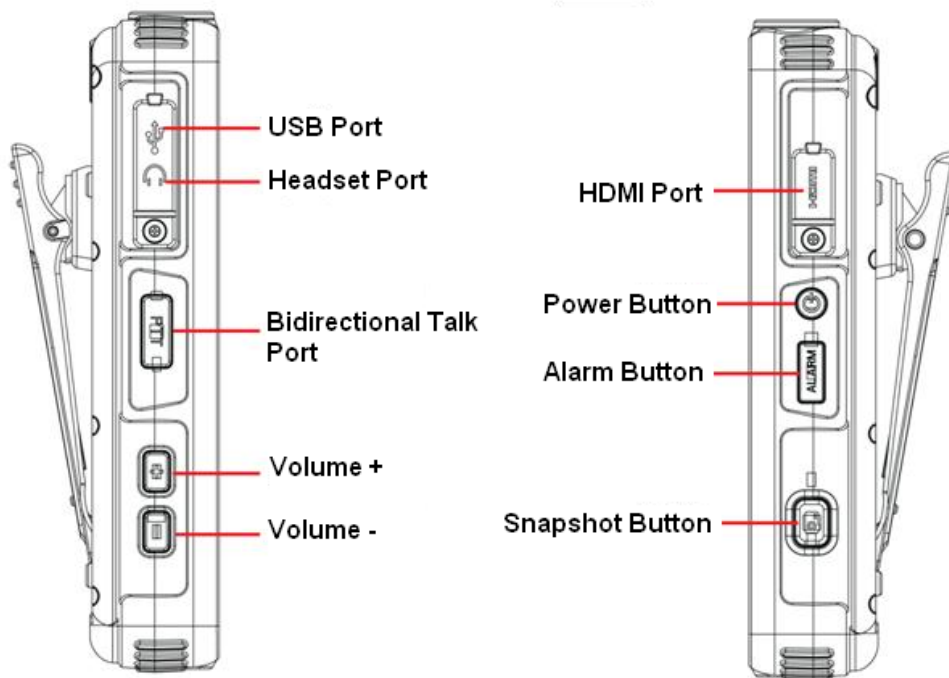


Figure 1-2

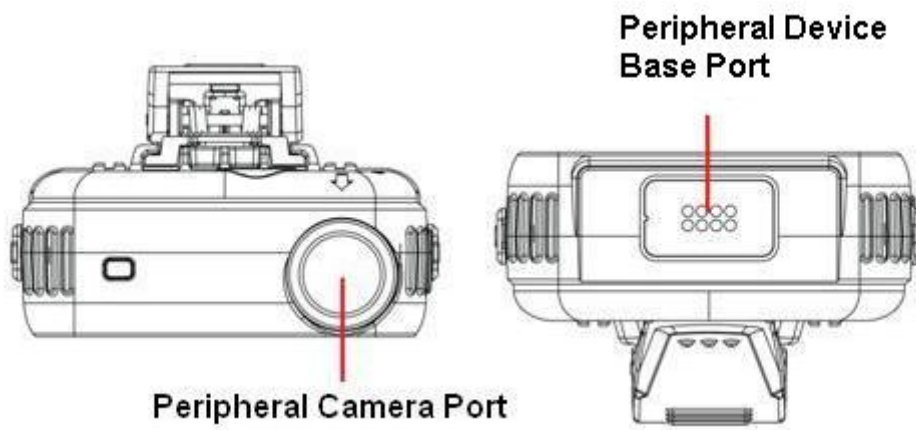


Figure 1-3

2 Operations

2.1 Boot up and Shut down

Press the Power button on the right side of the device (see Figure 1-2), you can boot up, shut down the device, or let it sleep.

- When the device is off, press Power button for a long time to boot up.
- When the device is on, press Power button for a long time and then tap Shut down, and then tap OK to confirm to shut down the device.
- When the device is on, press Power button for a long time and then tap Reboot, and then tap OK to confirm to reboot the device.
- When the device is on, press Power button for a short time, devices goes to sleep. Press the Power button for a short time again, it can activate the device.

2.2 Login

After device boots up, it goes to login interface by default.

Please follow the steps listed below.

Step 1 Boot up the device, device goes to login interface. See Figure 2-1.

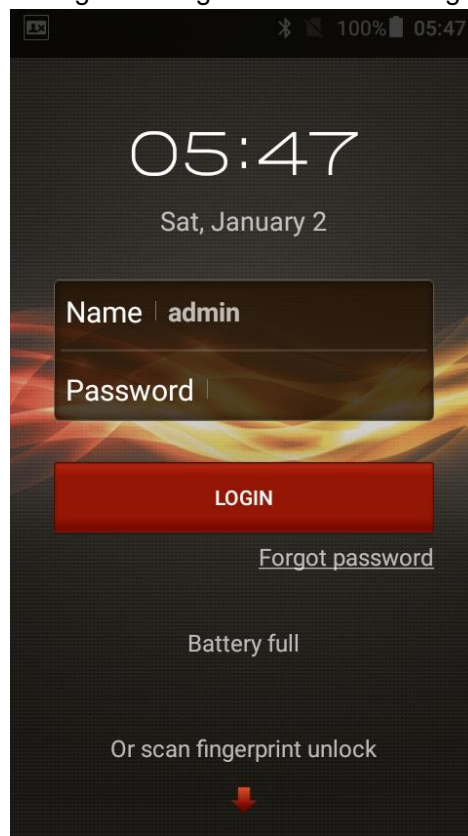


Figure 2-1

Step 2 Input user name and password.

Note

- Device default user name is **admin**. If it is your first time to use the device, please set a login password.

- You can set three security questions in case you forgot password. Tap **Forgot password** in Figure 2-1, you can reset login password after you properly answer the security questions.
- Please change the password regularly to guarantee device safety. Refer to chapter 2.8.4 **Password Settings** for detailed information.

Step 3 Tap **Login** to go to the main interface. Refer to chapter 2.3 **Main Interface** for main interface information.

 **Note**

You can scan your fingerprint to login. Refer to chapter 2.8.5 **Fingerprint Manager** for detailed fingerprint scanning information.

2.3 Main Interface

After you logged in, the main interface is shown as below. See Figure 2-2.

- **Status bar:** Tap the status bar, and then flick down, it can quickly enable some functions such as Wi-Fi, Bluetooth, and audio talk. It can display device message icon, notice icon, network connection icon, platform connection icon and etc.
- Tap the menu bar and then flick left/right to go to the other page. The newly added applications are on the menu bar. Press the application icon for a long time, you can view ×. Tap × to remove the applications.



Figure 2-2

Icon	Note	Icon	Note
	Battery remaining levels.		Mobile signal type and strength. means there is no SIM card.
	There is an alarm message.		Has enabled Bluetooth function.
	Upload file to the platform.		Current WI-FI network signal strength.
	Device has successfully connected to the platform. <ul style="list-style-type: none"> Device and platform are disconnected. Platform is playing device realtime video. 		The flow has reached the threshold Refer to chapter 2.7.1.4.2 for flow threshold setup information.
	Audio registration successful.		Audio registration failed.
	Successfully sent out the file via Bluetooth		Successfully received the file via the Bluetooth.
	Device successfully connected to the dock connector.		The audio talk is enabled.
	The stopwatch is running in the background.		The counter down timer is running in the background.
	Device is loading SD card.		Snapshot one screen image.
	Device is running BLM.		Device is in maintenance state. After device works for a long time, please reboot device to maintain. Once the device working period has reached 72 hours, it can upload the prompt message.

2.4 Snapshot/Record Video



Tap , device goes to the snapshot/record interface. See Figure 2-3.

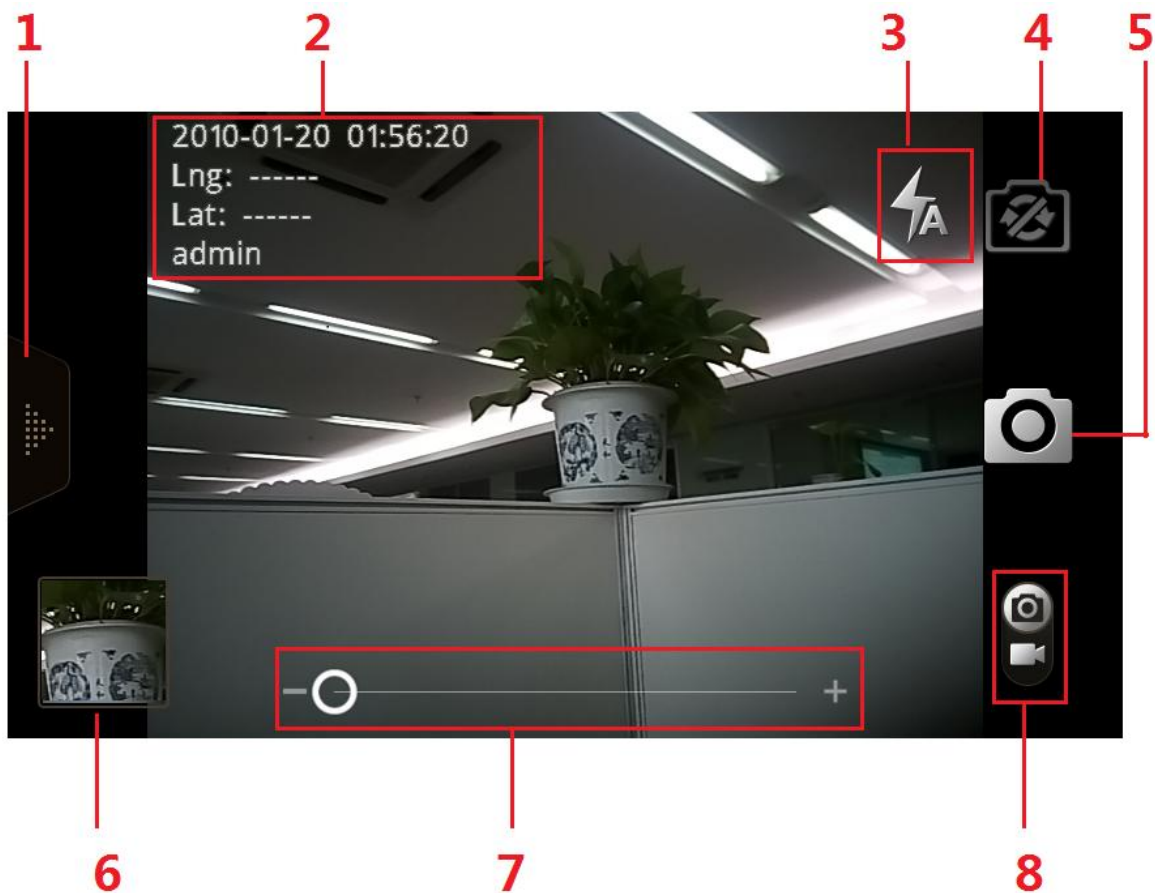





Figure 2-3

Please refer to the following sheet for detailed information.

SN	Note
1	<p>Tap it to set camera parameters.</p> <ul style="list-style-type: none"> ● Snapshot mode: Tap the icon to go to camera settings interface. You can enable/disable snapshot sound, set white balance, exposure, video quality and resolution. ● Record video: Tap the icon to go to camera settings interface. Here you can set video quality frame rate, bitrate, bitrate type. <p> Note</p> <p>When platform is playing the device realtime video, you cannot set parameters. The left pane is shown as in </p>
2	<p>Display OSD information.</p> <p> Note</p> <p>From Settings->Device->Camera->OSD, you can overlay time, user name, GPS info and etc.</p>
3	<p>Tap it to set flashlight parameters.</p> <ul style="list-style-type: none"> ● : Auto flashlight. Device can enable flashlight automatically according to the light in the surrounding environment. ● : Manual flashlight function is on.

SN	Note
	<ul style="list-style-type: none"> Flashlight function is off. <p>Note In record video mode, tap  to enable compensation light.</p>
4	<p>Tap to switch to peripheral camera to snapshot or display HDMI signal.</p> <p>Note Please make sure you have connected the peripheral camera or the HDMI signal.</p>
5	<p>Tap to snapshot.</p> <p>Note In record video mode, tap  to begin record video. During the recording process, tap  to snapshot.</p>
6	Tap the icon to view photo or video file.
7	Adjust photo focus distance.
8	Switch between snapshot/record mode.





2.5 Record Audio



Tap , you can go to the record audio interface. See Figure 2-4.



Figure 2-4

- Tap  to begin record. The circle becomes  during the recording process. Tap  again to stop record.
- Tap  to check audio file.


2.6 Files

Here you can view photo, video file or audio file.

Admin user can view files of all users. For ordinary user, he (or she) can only view his (her) own files.

Note

The following operation is based on the **admin**.

Step 1 Tap , you can go to the file manager interface. See Figure 2-5.

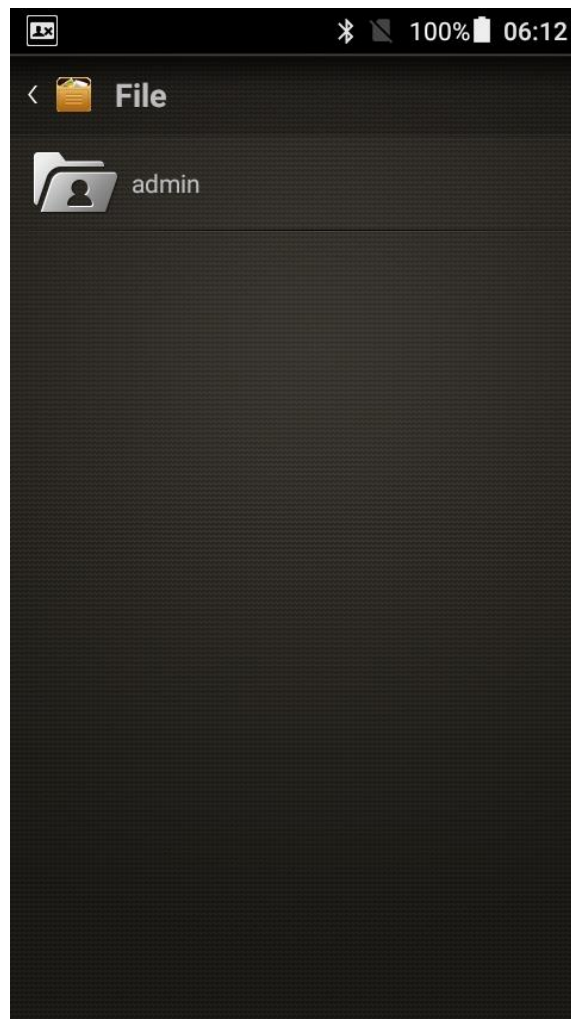


Figure 2-5

Step 2 Tap admin, you can see photo file folder.

Device displays Photo interface by default. All file folders name after device current date such as 2017-03-05. See Figure 2-6.

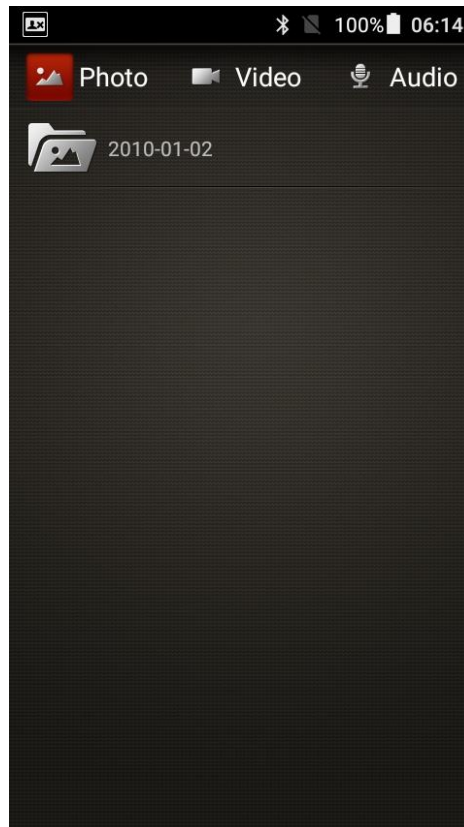







Figure 2-6

Step 3 Select a folder you want to view.

Files names after device current time such as 07:21:25. Files are listed by time and the latest file is always at the top.

 **Note**

- Press the file for a long time; you can see an icon shown as  at the top right of the image. The red color means it has been selected.
- Tap , you can select all files on current page.
- Select a file, tap , you can view the detailed information of current file. It includes start time, end time, belonging user, size, resolution and type.
- Tap  to upload the image to the platform.
- Tap  to delete selected file.

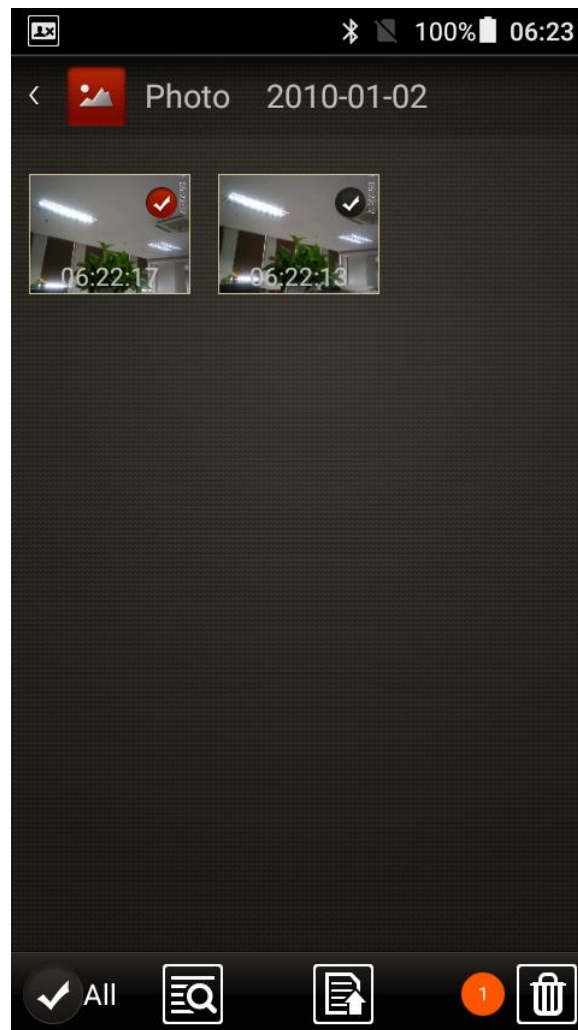




Figure 2-7

Step 4 Tap the photo you want to view. Device displays photo information. See Figure 2-8.




Figure 2-8

- Flick left or the right, you can view the previous or next photo.
- Tap  to return the photo file list.
- Tap  to delete the photo.

2.7 Settings

2.7.1 Network

Here you can set Wi-Fi, Bluetooth, location, datacall, Ethernet and etc.

Tap , you can go to the network interface. See Figure 2-9.

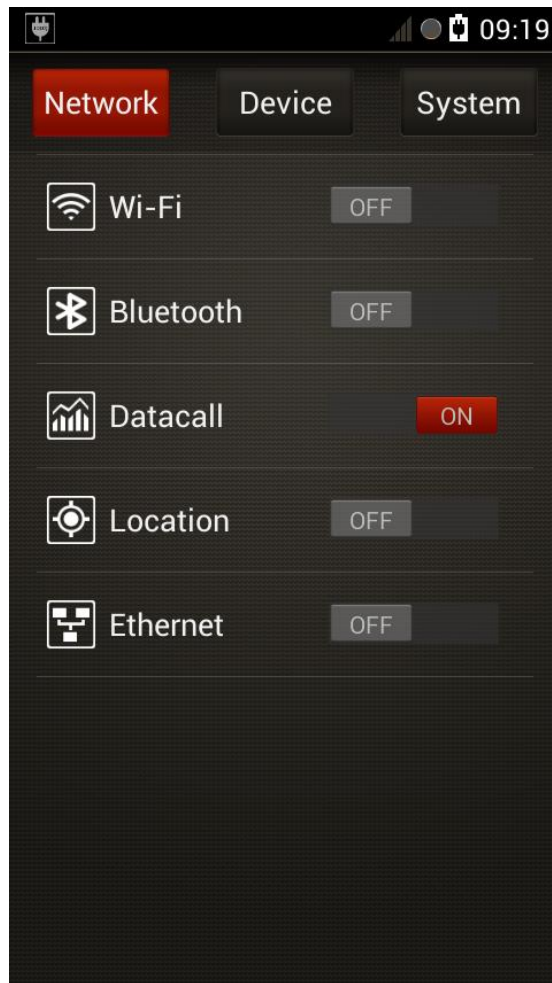






Figure 2-9

Tap an icon to go to the corresponding interface.

-  means current function is disabled.
-  means current function is enabled.

2.7.1.1 Wi-Fi

After enabling Wi-Fi function, you can search or add Wi-Fi network.

Tap , you can go to the following interface. See Figure 2-10. Tap  to add network, save current network, refresh network list and set advanced Wi-Fi function.

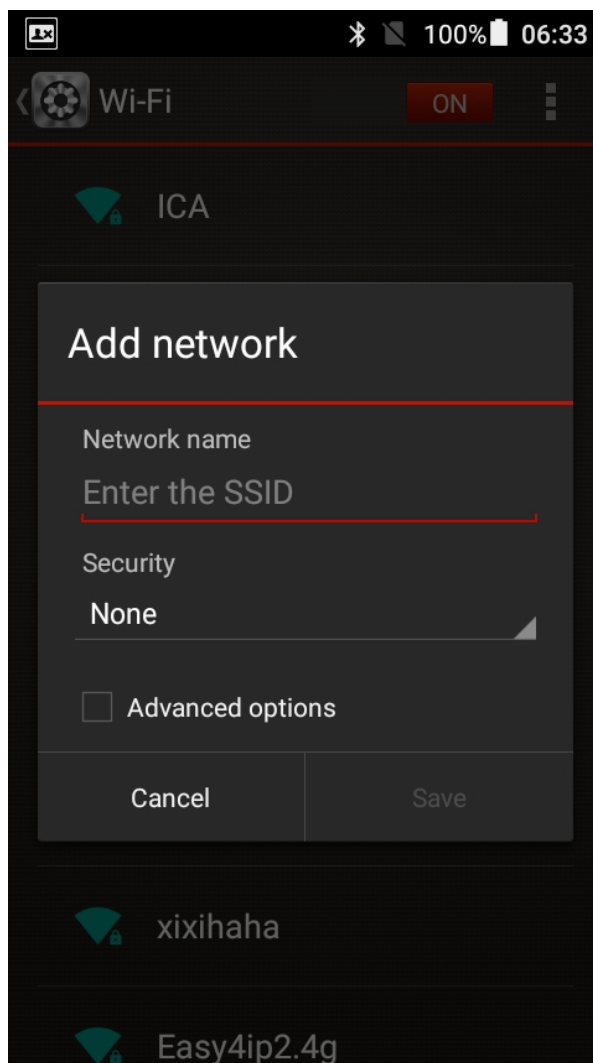


Figure 2-10

2.7.1.1.1 Add Network


Step 1 Tap , and then tap Add network, you can add the Wi-Fi network. See Figure 2-11.

Figure 2-11


Step 2 Please refer to the following sheet to set the detailed parameters.

Name	Function
Network name	The router SSID you want to connect to (It is the Wi-Fi network name).
Security	It is to set WI-FI network security. <ul style="list-style-type: none"> ● N/A: There is no need to input password when you login the WI-FI network. ● Select Other type; you need to input password or credential.
Advanced	Check the box here; you can set proxy and IP.
Proxy	It is to set WI-FI proxy information. <ul style="list-style-type: none"> ● N/A: There is no need to input proxy server parameters. ● Manual: Input proxy server parameters manually. ● Auto: Device auto sets proxy parameters.
IPv4	<ul style="list-style-type: none"> ● "DHCP": Auto search WI-FI network IP. ● "Static": Set WI-FI network IP address, gateway, network prefix length, domain name 1 and domain 2. <ul style="list-style-type: none"> ◇ IP address: It shall be in the same IP segment of the router. ◇ The rest parameters shall be the same as the router.

Step 3 Tap Save to complete the add operation.

2.7.1.1.2 Advanced



Step 1 Tap  and then tap Advanced, device goes to advanced Wi-Fi interface. See Figure 2-12.

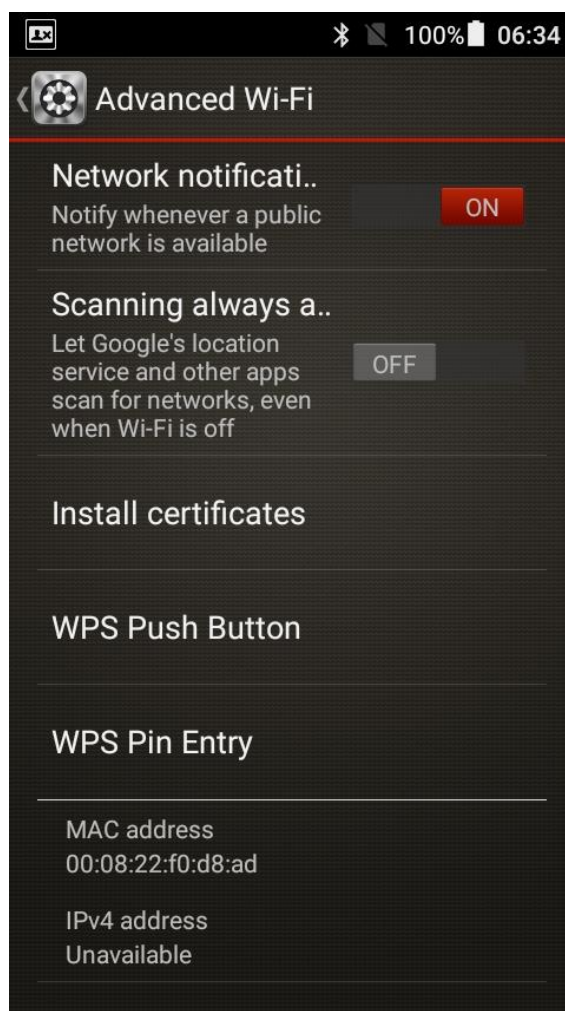


Figure 2-12


Step 2 Please refer to the following sheet to set the detailed parameters.

Name	Function
Network notification	After enable this function, the device can display corresponding notification when there is a public network around.
Scanning always anytime	After enable this function, device allows Google position service and other applications to scan the network (even when Wi-Fi is disabled.)
Install certificates	Upload the certificates to the device, and then Tap it to install corresponding credentials.
WPS push button	Tap WPS push button to enable WPS function. Device can auto search the router that has enabled WPS function. Note WPS (Wi-Fi Protected Setup): It is a Wi-Fi security and protection standard. The device can quickly connect to the network when the router has enabled WPS function.

Name	Function
WPS PIN entry	Tap WPS PIN Entry, input PIN on the Wi-Fi router that has enabled WPS function, device can quickly connect to the network.
MAC address	Display Ethernet adapter MAC address and IP address on the Wi-Fi.
IPv4 address	
IPv6 address	

2.7.1.2 Bluetooth

After enable Bluetooth function, you can use Bluetooth to receive the file.

Tap , you can see Bluetooth function. See Figure 2-13.

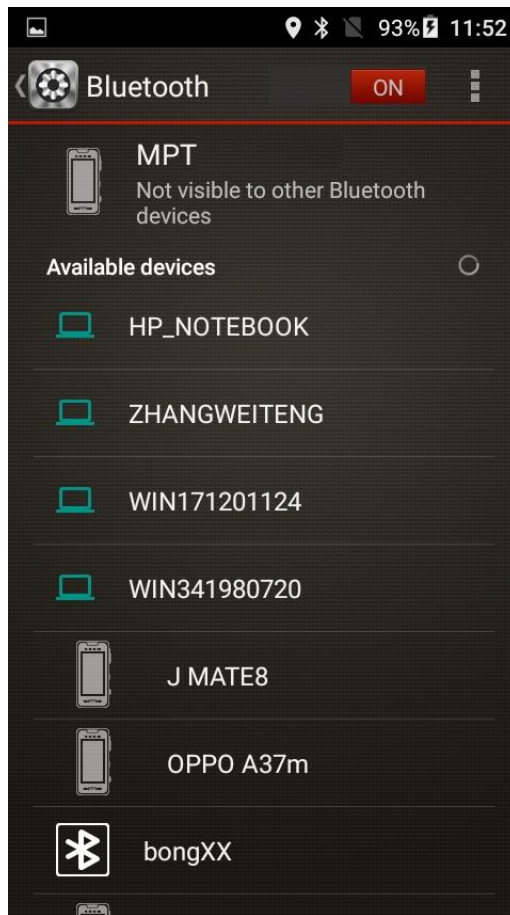
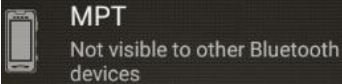

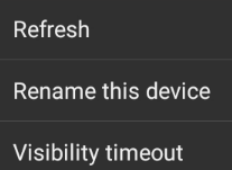


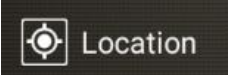
Figure 2-13

- Tap , you can switch detection mode. Please follow the prompts to select.
 - ✧ When it says "Not visible to other Bluetooth devices", the other device can not search the device.
 - ✧ When it says "Visible to other Bluetooth devices", the other device can search the device.
 - ✧ When it says "Visible to other paired Bluetooth devices", only the paired device to detect the device.

- Tap , you can see .
 - ✧ Refresh: Tap it, device can search the bluetooth device that is available.
 - ✧ Rename device: Tap it to rename the device.
 - ✧ Visibility time out: It is to stop the detect after the specified period if there is no detected device.

2.7.1.3 Location

After you enabled positioning function, it can use the satellite to locate the device position. If the device has connected to the platform, it can upload the position information to the platform.

Tap , device goes to following interface. See Figure 2-14.

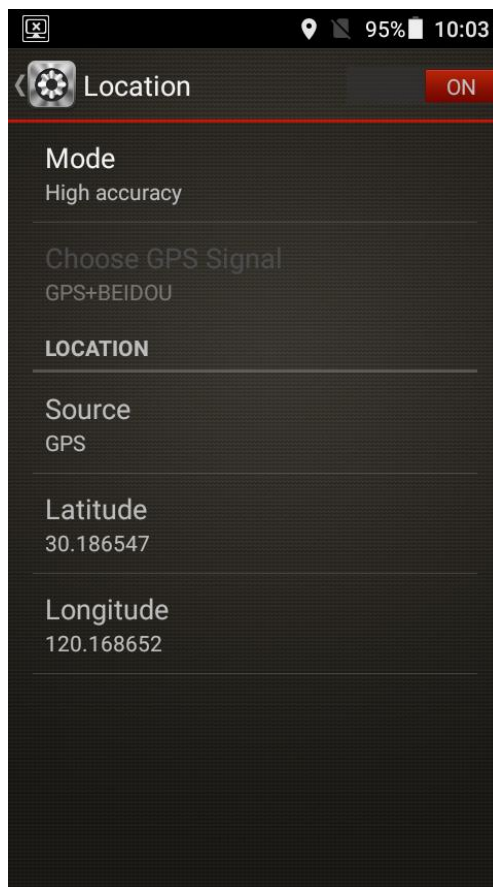


Figure 2-14

Please refer to the following sheet to set the detailed parameters.

Name	Function
Mode	It is to set device positioning mode. <ul style="list-style-type: none"> ● High accuracy. Use GPS,WI-FI or mobile network to locate the position. ● Low power consumption: Use WI-FI and the mobile network to locate the position. ● Only device: Use GPS to locate the position.
Source	Tap Source, device goes to Figure 2-15. Now you can select the signal source.

Name	Function
Position information	After you enabled the positioning function, it displays device signal source, latitude and altitude.

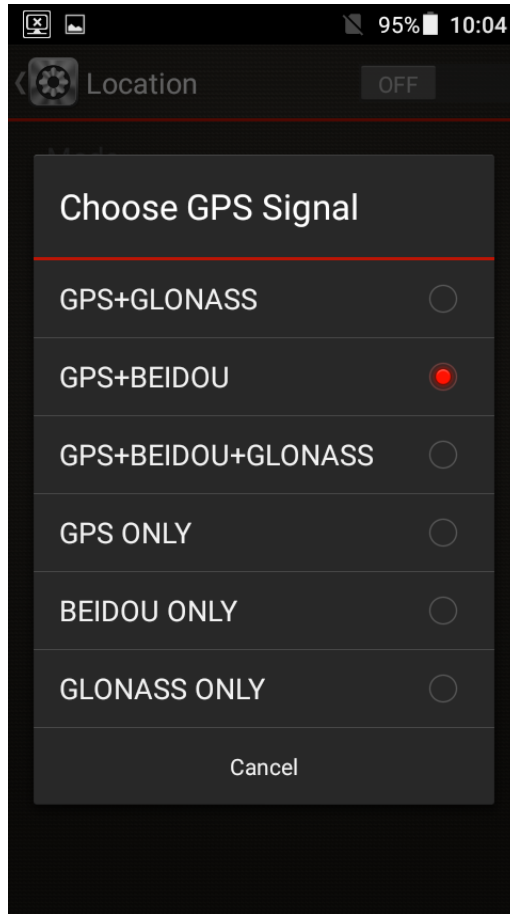



Figure 2-15

2.7.1.4 Data

Tap  **Datacall** to enable data business. You can go to the following interface. See Figure 2-16.

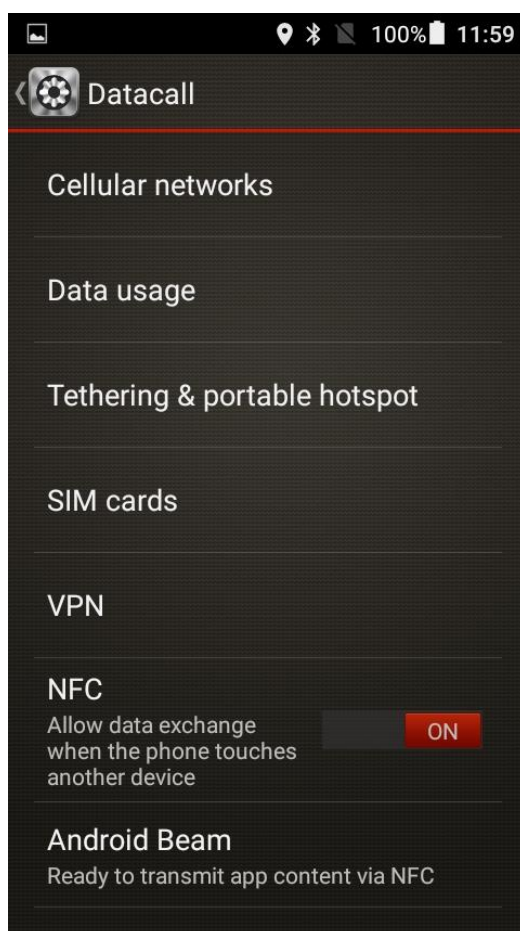




Figure 2-16

Please refer to the following sheet to set the detailed parameters.

Name	Function
Cellular network	It is to set cellular network. Refer to chapter 2.7.1.4.1 Mobile Network for detailed information.
Data usage	View data flow usage state. Refer to chapter 2.7.1.4.2 Data Usage for detailed information.
Tethering and portable hotspot	Enable Wi-Fi hotspot or network sharing. Refer to chapter 2.7.1.4.3 Tethering and portable hotspot for detailed information.
SIM cards	Set the SIM cards and the preferred SIM card. Refer to chapter 2.7.1.4.4 SIM cards for detailed information.
VPN	It is to set VPN (Virtual Private Network). Refer to chapter 2.7.1.4.5 VPN for detailed information.
NFC	<p>After enabled NFC (Near Field Communication), it allows the device to exchange data when it is adjacent to other device.</p> <p> Note Please make sure you have installed the corresponding APP that supports NFC function.</p>
Android Beam	<p>After enabled Android Beam function, you can just put the device adjacent to another device that supports NFC function, the device can share the contents with the other device simultaneously.</p> <p> Note Please make sure the device has enabled NFC function.</p>

2.7.1.4.1 Cellular networks

Tap Cellular networks, you can go to the following interface to set. See Figure 2-17.

Note

The following interface may vary if you insert the SIM card from different carriers. Please refer to the actual interface.

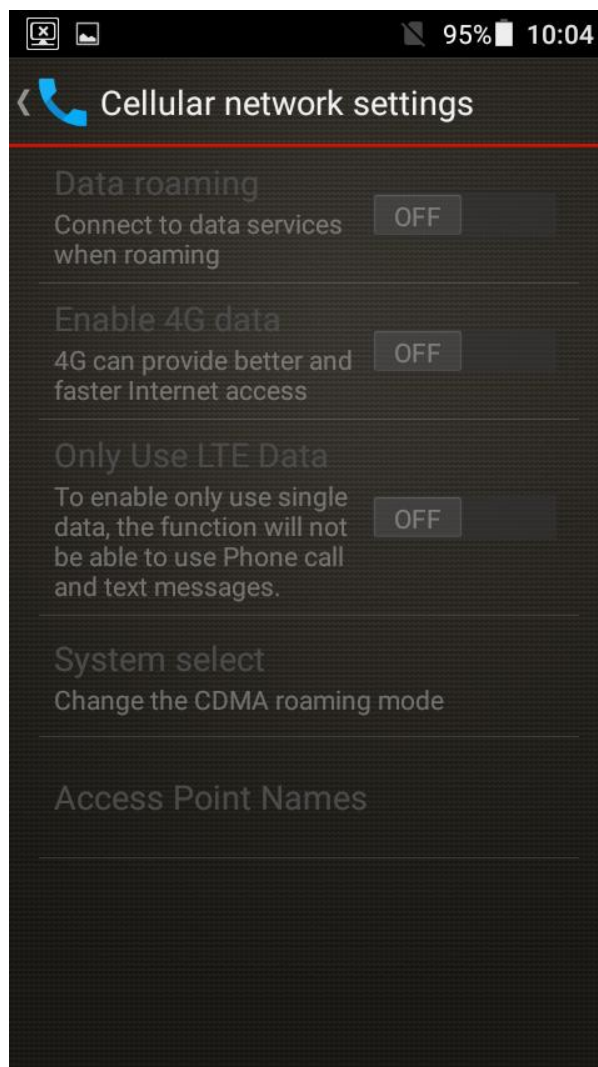




Figure 2-17

Please refer to the following sheet to set the detailed parameters.

Name	Function
Data roaming	Enable data roaming function, device can connect to network when it is out of current carrier service range.
Preference	Set mobile network according to your own habit.
Primary network	Set network type. Usually we recommend 4G network.
Enable 4G Data	Enable 4G data function; device can enjoy swift network service.
System select	Change CDMA roaming mode if necessary.
Access point name (APN)	APN (Access Point Name) is to set the device network parameters. It is the device network access mode. For the SIM card from different carriers, the APN settings may not be the same. The device can auto set the parameters. Tap  if you want to add APN and then set the proper information.

2.7.1.4.2 Data Usage

Tap Data usage, device goes to flow usage state interface. See Figure 2-18.

Tap , you can set network threshold. Device can generate an alarm when the data flow has reached the max value.

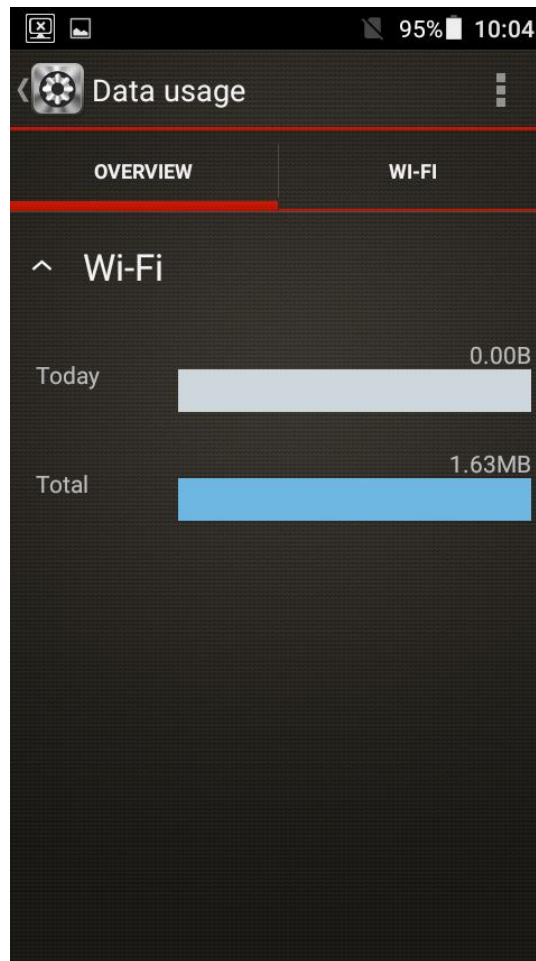


Figure 2-18

2.7.1.4.3 Tethering and Portable Hotspot

You can set Wi-Fi hotspot, USB network sharing, Bluetooth sharing, so that the device can connect to other devices nearby and sharing data.

Tap network sharing and hotspot, device goes to following interface. See Figure 2-19.

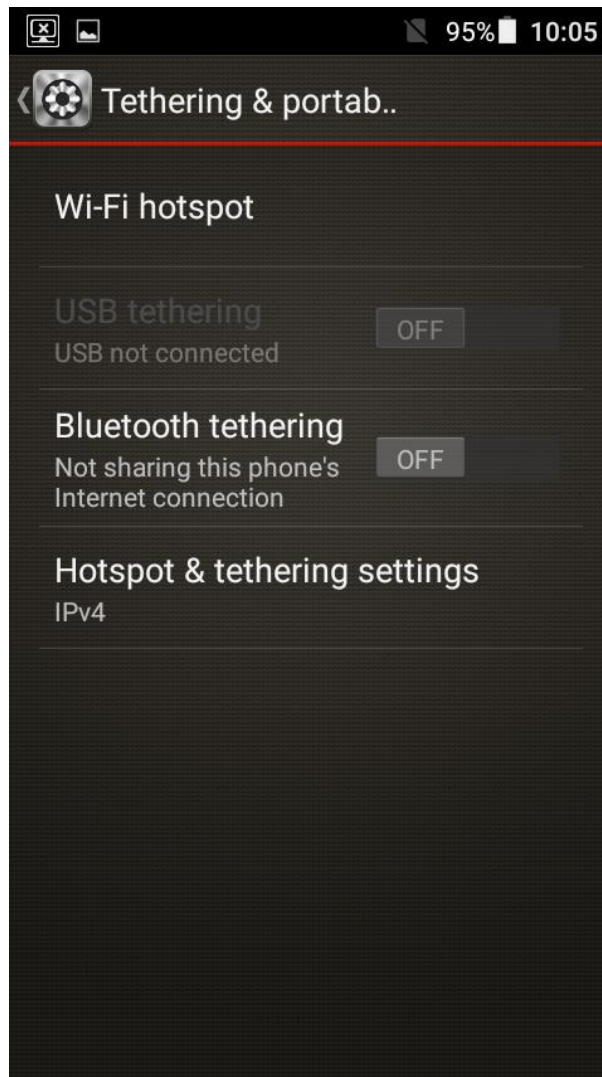


Figure 2-19

Name	Function
Wi-Fi hotspot	After enable Wi-Fi hotspot, the device can work as a wireless router. The devices of the WI-FI function can connect to the device WI-FI network. Tap Wi-Fi hotspot, you can set Wi-Fi hotspot network name, password, max connection and etc. View the connected Wi-Fi hotspot user amount.
USB tethering	Connect device to the UBS port, and then enable USB tethering function. It can realize network share function.
Bluetooth tethering	After enable Bluetooth tethering, the device can connect to the nearby Bluetooth device, realize network connection and share data.
Hotspot and tethering settings	Set network sharing or hotspot IP address. It includes IPv4, IPv4 & IPv6.

2.7.1.4.4 Dual-Card Settings

Enable the SIM card function and set preferred SIM card type.

Tap VPN, device goes to the VPN interface. See Figure 2-20.

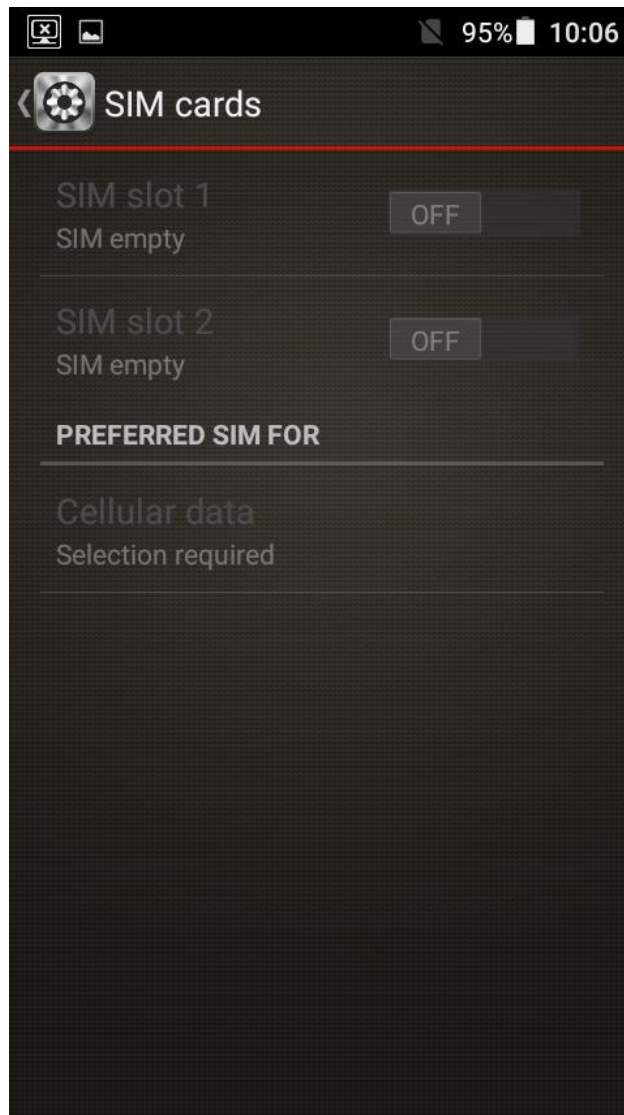


Figure 2-20

2.7.1.4.5 VPN

When you are using SIM card, you need to input the VPN (Virtual Private Network) information such as user name, password, server address of the SIM card, so that you can connect to the network.

Tap VPN, you can see the following interface. See Figure 2-21.

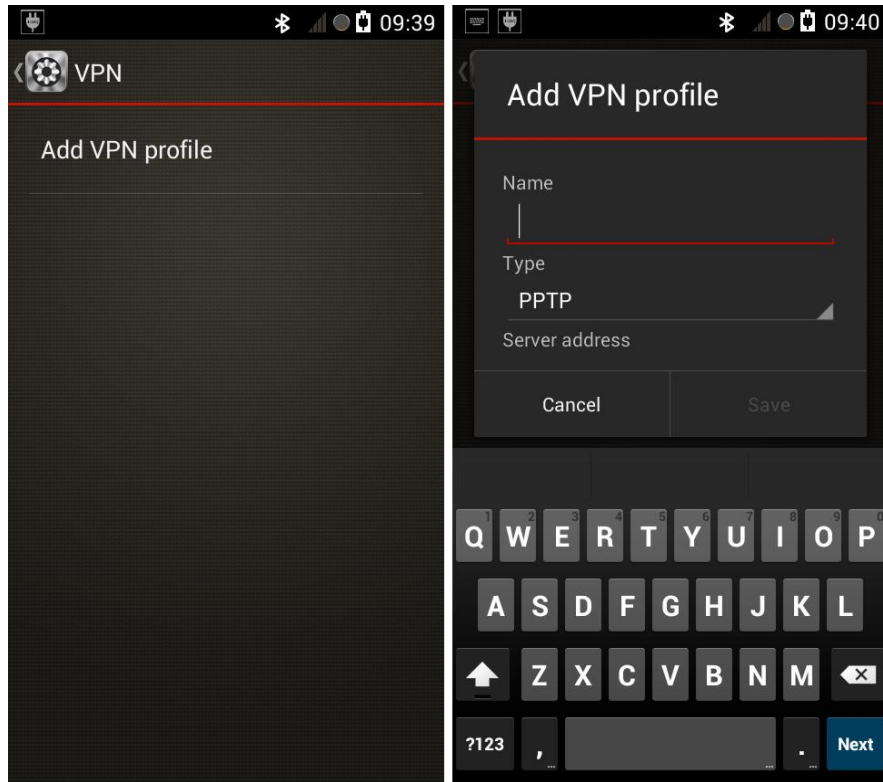



Figure 2-21

2.7.1.5 Ethernet

This function shall work with the dock connector (not provided), you can use the network port on the dock connector to connect to the network.

2.7.2 Device

Here you can set camera, platform, account, camera storage, message whitelist, audio talk parameters.

Tap , and then tap Device, you can go to the following interface. See Figure 2-22.

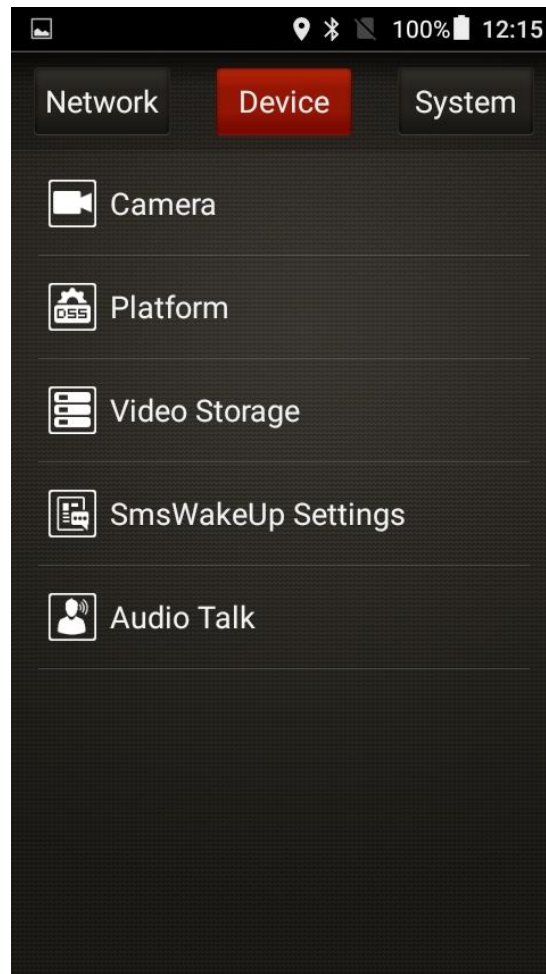



Figure 2-22

2.7.2.1 Camera

Tap  and then tap Device and Camera, you can go to the camera interface. See Figure 2-23.

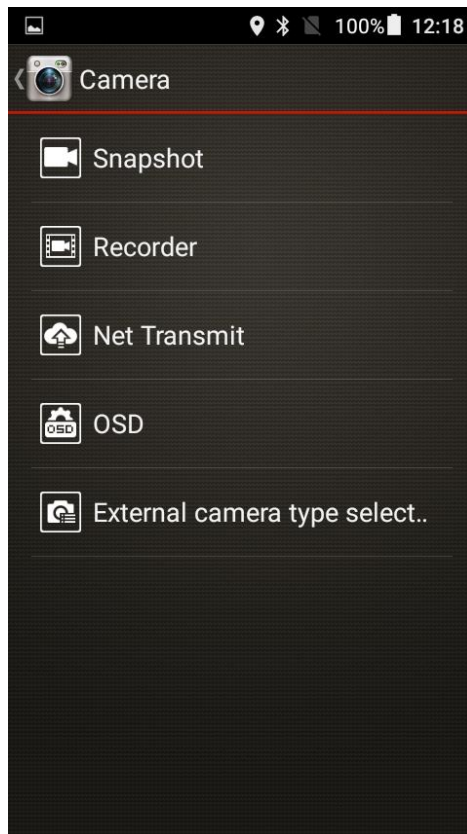


Figure 2-23

2.7.2.1.1 Snapshot

It is to set camera snapshot image quality and size.

Tap Snapshot, device goes to following interface. See Figure 2-24.

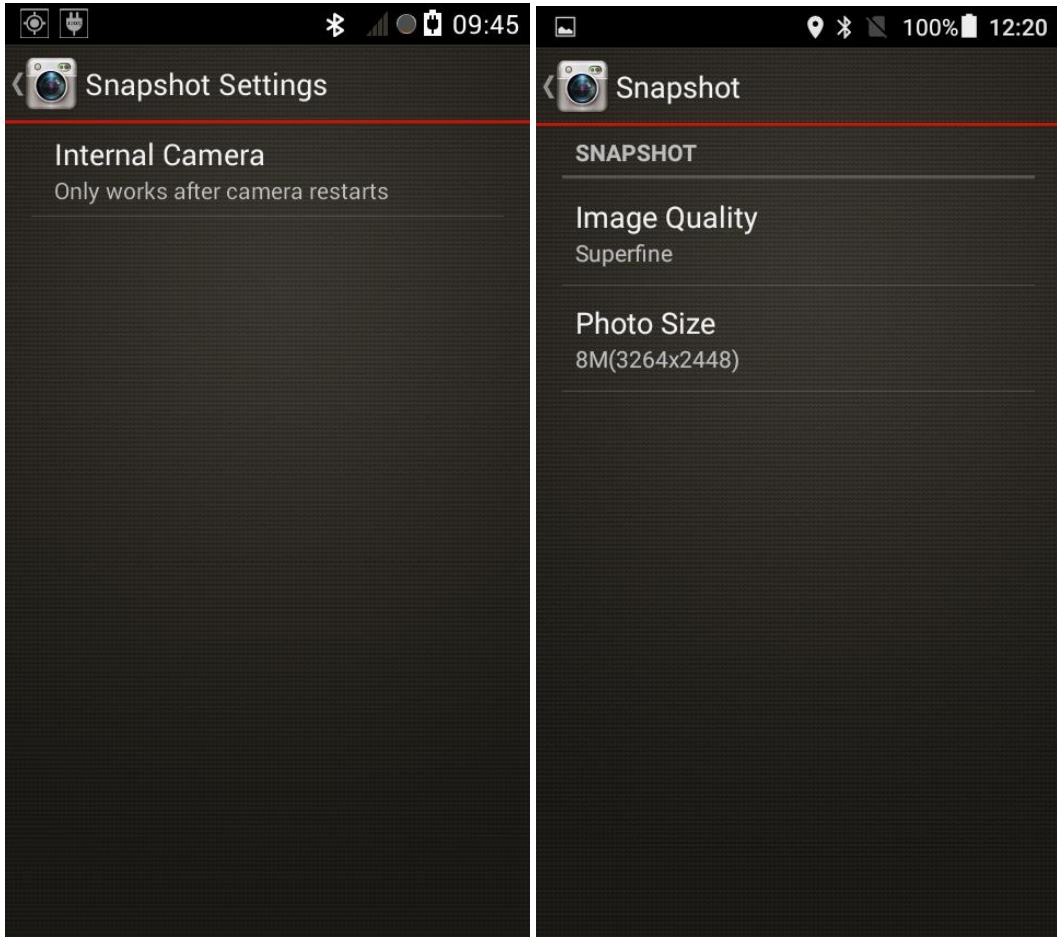


Figure 2-24

Please refer to the following sheet for detailed information.

Name	Function
Image quality	It includes normal, fine and super fine.
Image size	The options includes: 13M (4160×3120), 8M (3264×2448), 5M (2560×1920) and 3M (2048×1536).

2.7.2.1.2 Record

It is to set video quality, frame rate, bitrate, and bitrate type.

Tap Record, device goes to the following interface. See Figure 2-25.

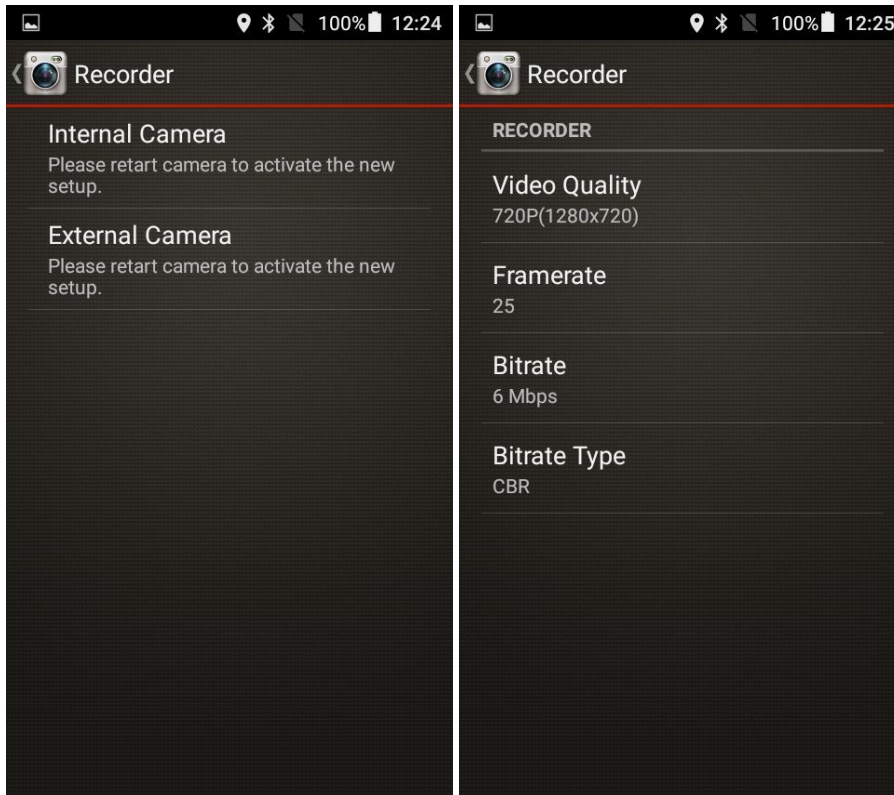


Figure 2-25

Please refer to the following sheet for detailed information.

Name	Function
Video quality	The higher the resolution is, the good the video quality is. But at the same time, the storage space is large. <ul style="list-style-type: none"> ● 1080P (1920×1080) ● 720P (1280×720) ● WVGA (864×480)
Frame rate	The higher the frame rate is, the fluent the video is. The different video quality has different frame rate.
Bitrate	For different frame rates and resolutions, the bit rate value may vary.
Bitrate type	It is to set encode type. <ul style="list-style-type: none"> ● CBR: The average bit frame rate is the same. ● VBR: The bit stream value may vary according to the image quality.

2.7.2.1.3 Network transmit

It is to set the network transmission video quality, bit stream type, frame rate, and encode type.

Tap Network transmit, device goes to following interface. See Figure 2-26.

Refer to the above sheet for detailed setup information.

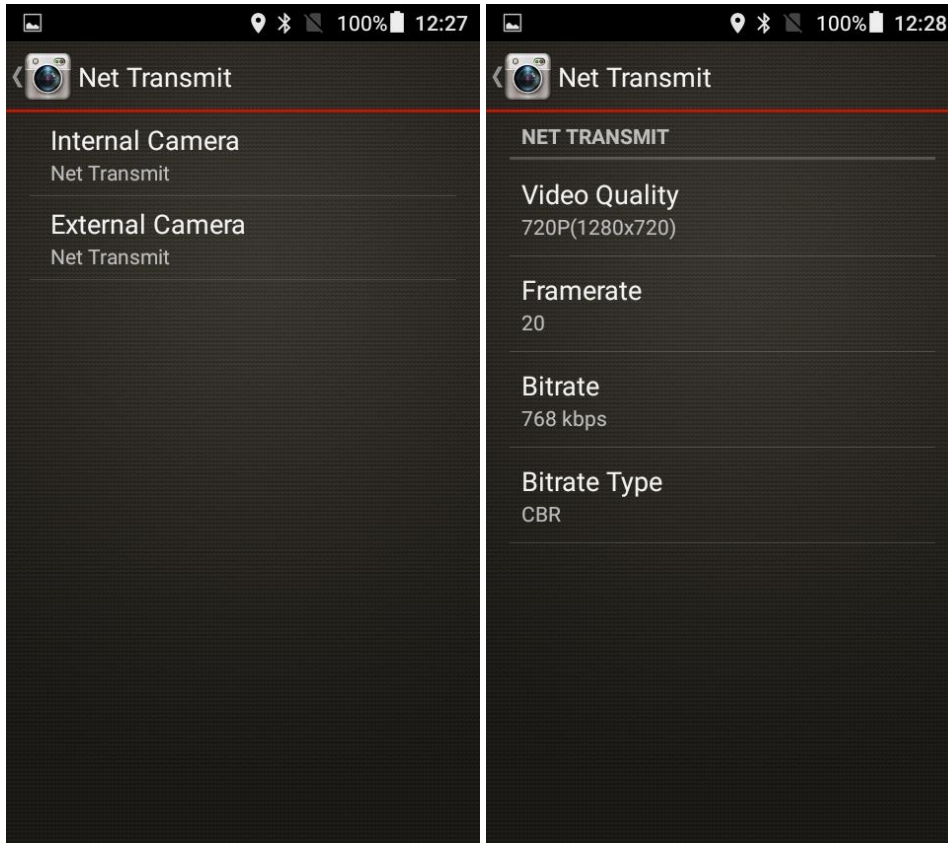


Figure 2-26

2.7.2.1.4 OSD

It is to set enable/disable OSD function or not. After you enabled this function, you can overlay corresponding time, user name, GPS information on the image or video.

Tap OSD, you can see the following interface. See Figure 2-27.

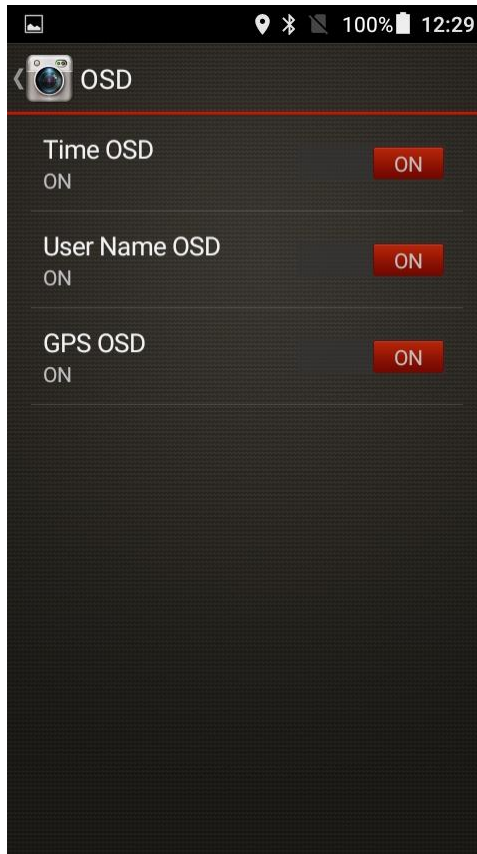


Figure 2-27

2.7.2.1.5 External Camera type

Device supports peripheral camera and HDMI device.

Tap external camera type , you can see the following interface. See Figure 2-28.

Note

Please refer to the corresponding accessories user's manual for detailed information.

- When device installed the peripheral camera, the resolution supports 720P and 1080P.
- When device connecting to the HDMI device, the resolution supports 720P.

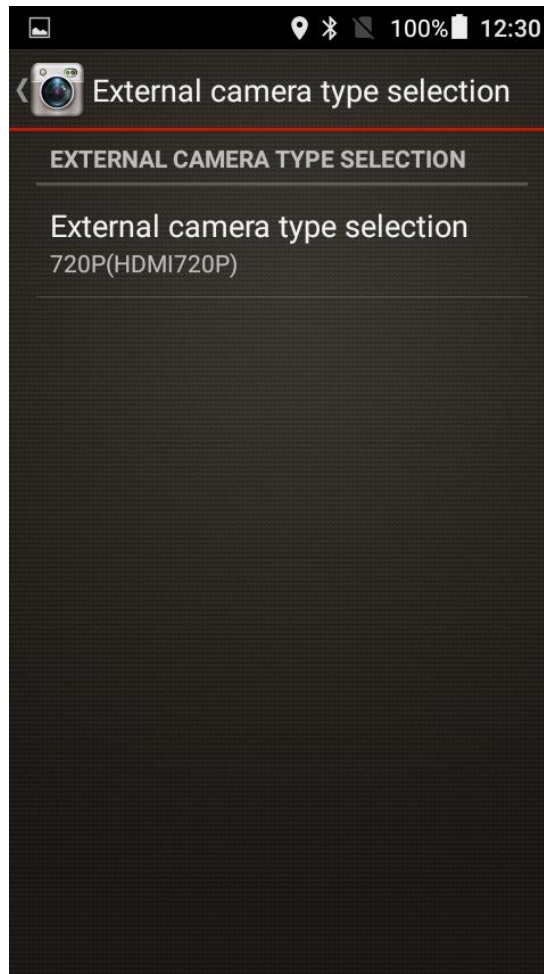


Figure 2-28

2.7.2.2 Platform

Device can connect to the platform. You can control and manage device remotely via platform. Please follow the steps listed below.

Step 1 Tap  and then from Device->Platform, you can go to the platform interface. See Figure 2-29.




Figure 2-29

Step 2 Please refer to the following sheet for detailed information.

Name	Function
Platform connection	Enable or disable the device to connect to the platform.
Device ID	It is the name of the device on the platform. Please make sure the name here is the same with that on the platform.
Platform IP	Input platform server IP address.
Platform port	Platform server registration listen port. The default port value is 9500.
Local port	Device listen port. The default port value is 37777.
Dock connector auto backup	Enable dock connector auto backup function, connect the device to the peripheral dock connector. When the dock is connecting to the network and can communicate with the platform, the device can auto backup data to the platform. Note Please make sure the platform supports auto backup function.

Step 3 Tap OK to complete setup. You can view its status on the interface is shown as ,

otherwise it is shown as .

2.7.2.3 Video Storage


Device max supports 128GB expansible storage space. When the device built-in space is not sufficient, you can insert Micro SD card in case you may lose the data.



Important

ERASE SD CARD FUNCTION IS GOING TO CLEAR ALL DATA ON THE MICRO SD CARD. BE CAREFUL!



Tap , from Device->Storage, you can go to the following interface. See Figure 2-30.

- When select External storage, device auto saves the audio/video data on the Micro SD card once the built-in space is not sufficient.
- Tap Erase SD card, device clears all data on the Micro SD card.

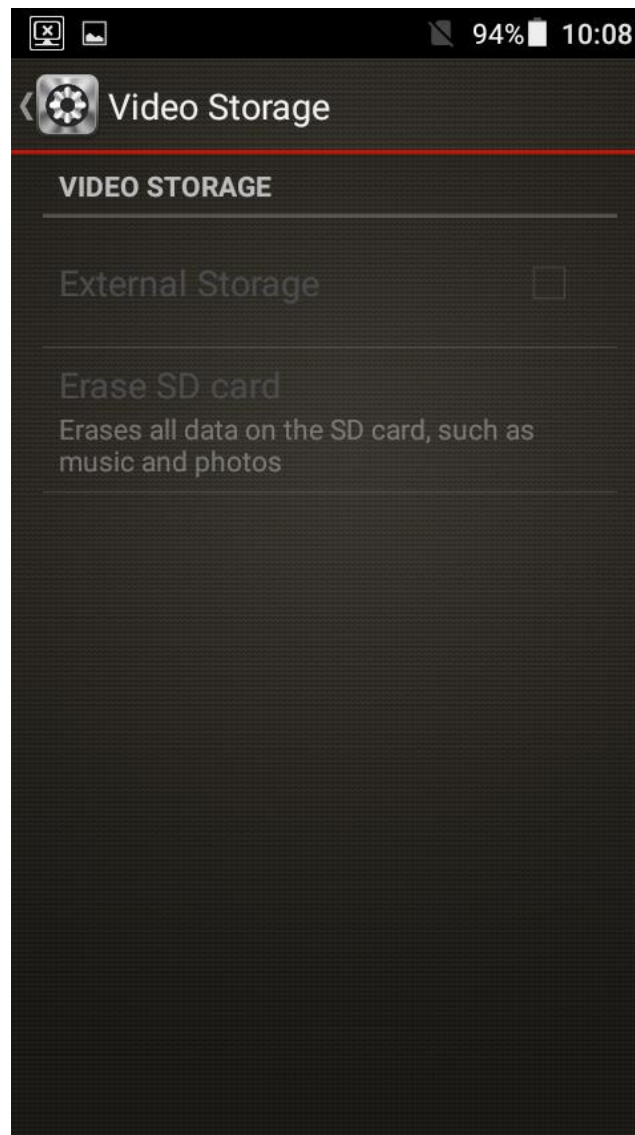



Figure 2-30

2.7.2.4 SMS Whitelist

When connect the device to the platform, the device goes to hibernation mode and disconnect with the platform if there is no operation for a long time. Now you can use the user name on the SMS whitelist to send out the SMS to activate the device.

 **Note**

The platform cannot send out SMS to activate the device if you have not set SMS whitelist.

Step 1 Tap , from Device->SMS whitelist, you can see the following interface. See Figure 2-31.

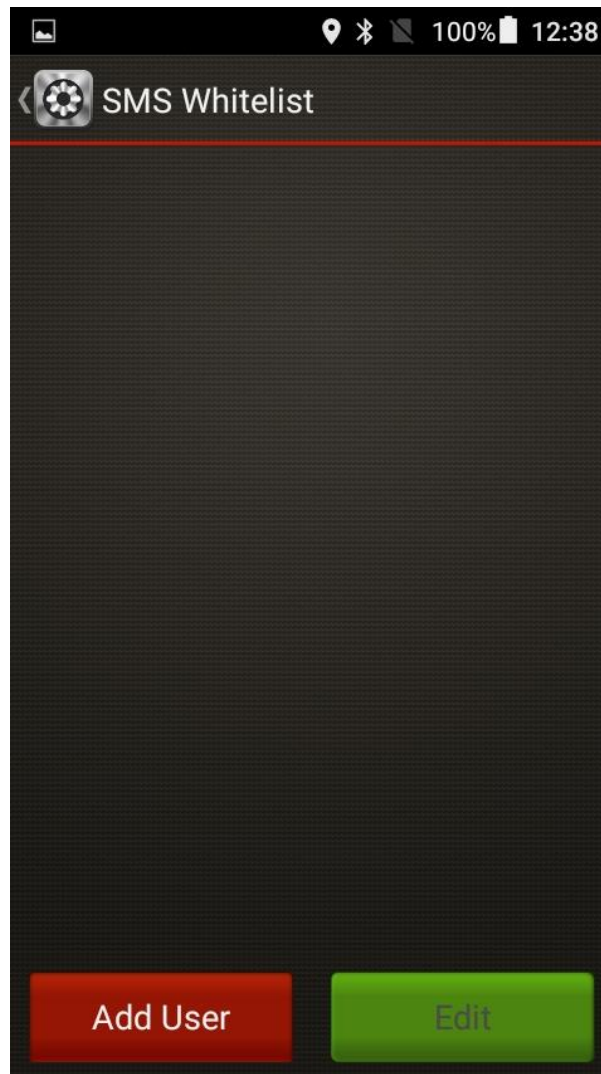


Figure 2-31

Step 2 Tap Add user, you can see the following interface. See Figure 2-32.

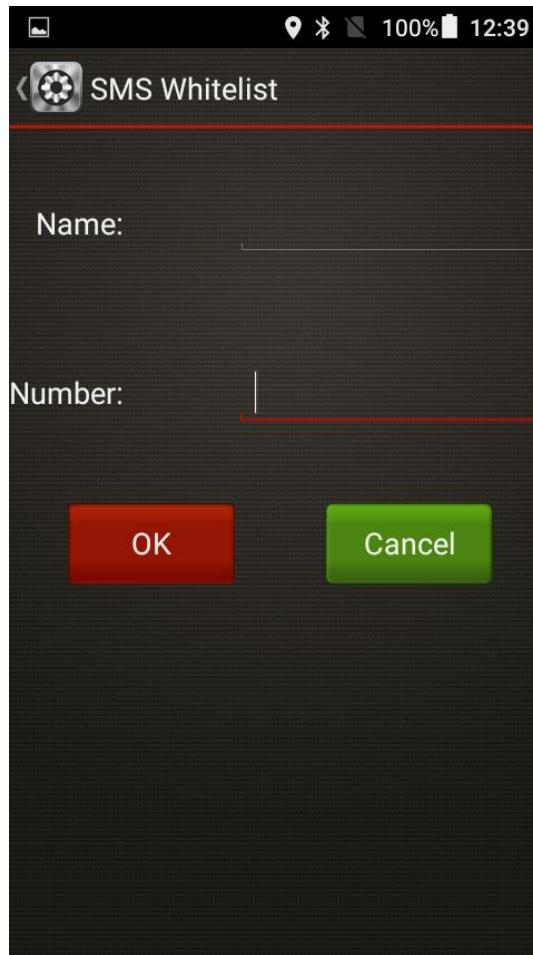



Figure 2-32


Step 3 Input name and cell phone number.

Step 4 Tap OK to complete setup. Tap Edit whitelist, and then select a user ( means checked user), tap Delete, you can delete a user.

2.7.2.5 Audio Talk

Enable audio talk function and then set corresponding parameters, the device can realize dual-way talk with the platform.

Please follow the steps listed below.

Step 1 Tap , from Device->Audio talk, you can see the following interface. See Figure 2-33.

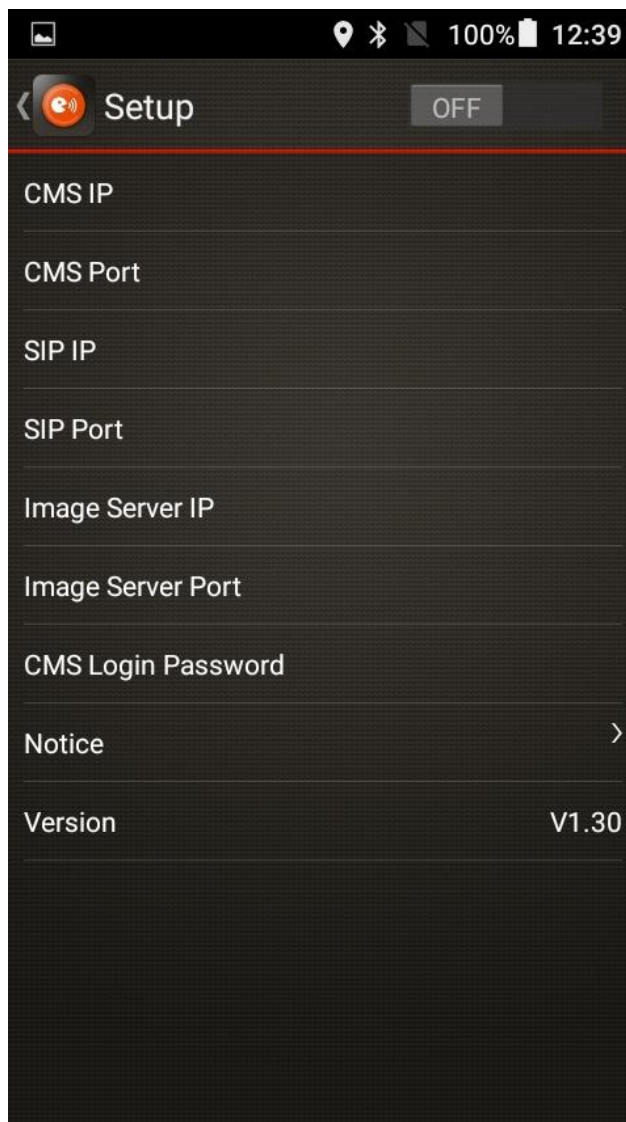
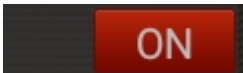



Figure 2-33

Step 2 Enable audio talk function.  means enabled.

Step 3 Set CMS server IP as the platform IP address, set CMS login user as the admin login password.

Step 4 Tap Save button to complete the setup.

2.7.3 System

Tap  and then select system, you can go to the system interface. See Figure 2-34.

Tap an item, you can set and search corresponding parameters.

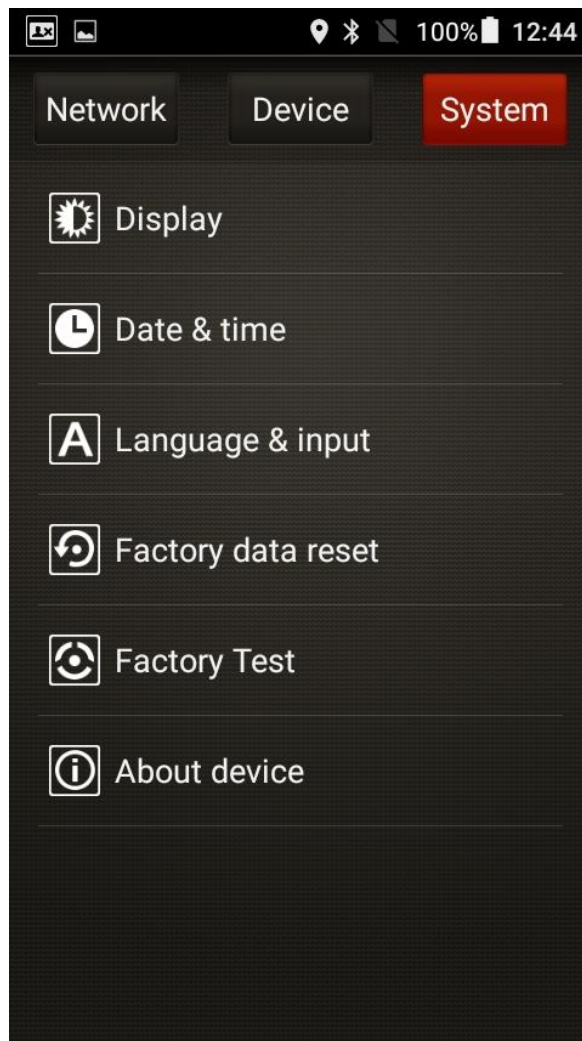



Figure 2-34

2.7.3.1 Display

It is for you to adjust screen brightness, sleep time and etc.

Tap  **Display**, you can go to the following interface. See Figure 2-35.

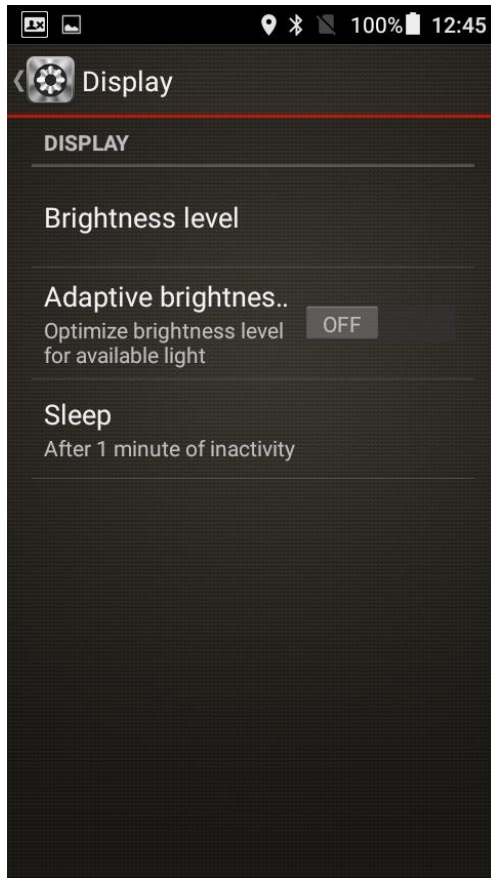



Figure 2-35

Please refer to the following sheet for detailed information.

Name	Function
Brightness	Tap brightness, it can adjust device screen brightness.
Auto adjust	After enable the brightness auto adjustment function, device can optimize screen brightness according to the environment situation.
Sleep	Set device sleep time. Device auto goes to sleep if there is no operation in the specified period.

2.7.3.2 Date and Time

It is for you to set device date and time.

Tap  **Date & time**, you can go to the following interface. See Figure 2-36

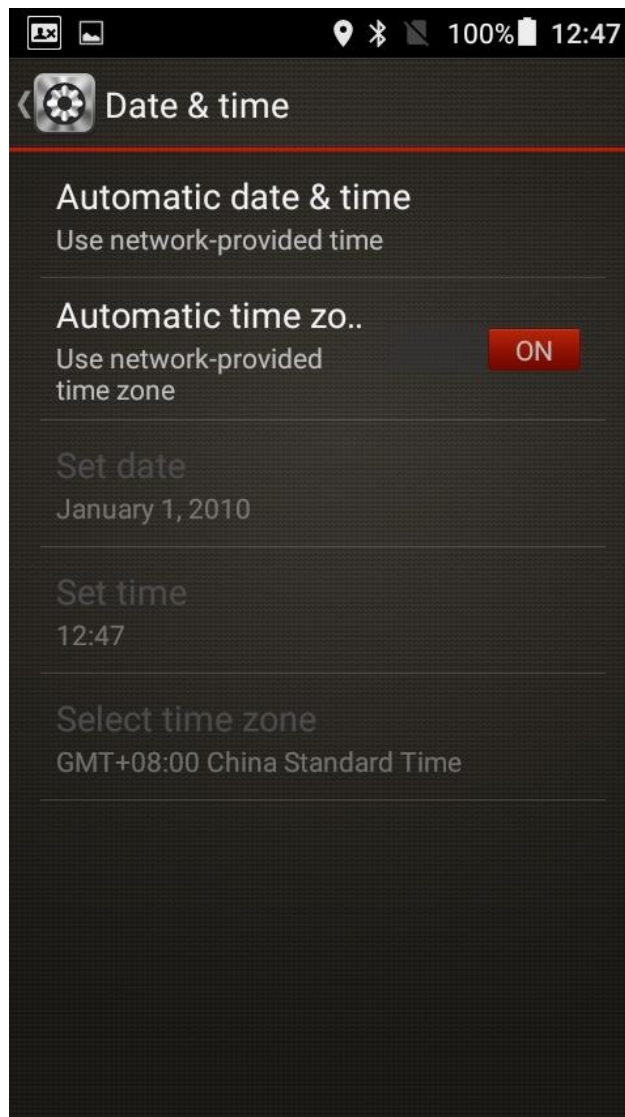


Figure 2-36

Please refer to the following sheet for detailed information.

Name	Function
Automatic date and time	Set device date, time via network, GPS or platform. Note <ul style="list-style-type: none"> Please make sure the network connection is OK (such as 3G, 4G, WI-FI and etc.) if you want to use network sync function. Please make sure the device has connected to the platform if you want to sync time with the platform.
Automatic Time zone	After enable this function, device can use the time zone via the network.
Date	Close auto set date and time function, you need to set date and time manually.
Time	
Time zone	Close auto set time zone, you need to set time zone manually.

2.7.3.3 Language and Input Method

It is for you to set device language and input method.

Tap **A** Language & input, you can go to the following interface. Here you can set language type and keyboard. See Figure 2-37.

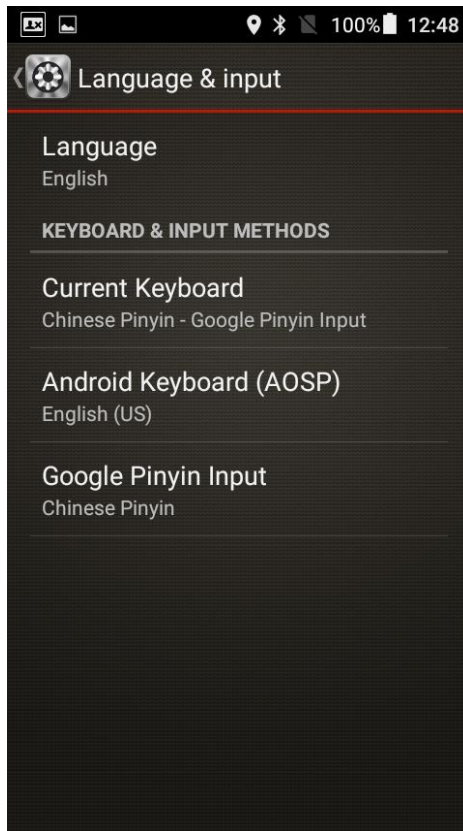


Figure 2-37

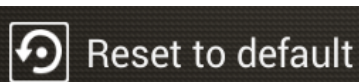
2.7.3.4 Factory Data Reset

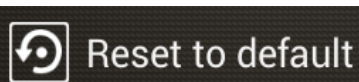
It is to restore factory default setup.



Important

RESET FACTORY DEFAULT SETUP IS GOING TO CLEAR ALL DATA ON THE DEVICE BUILT-IN STORAGE SPACE. BE CAREFUL!



Tap , you can go to the following interface. See Figure 2-38.

Tap Factory data reset and then confirm, device begins restoring factory default setup.



Note

Tap Format user data, device is going to clear user information, fingerprint information, record file, audio file, and photo and log files.

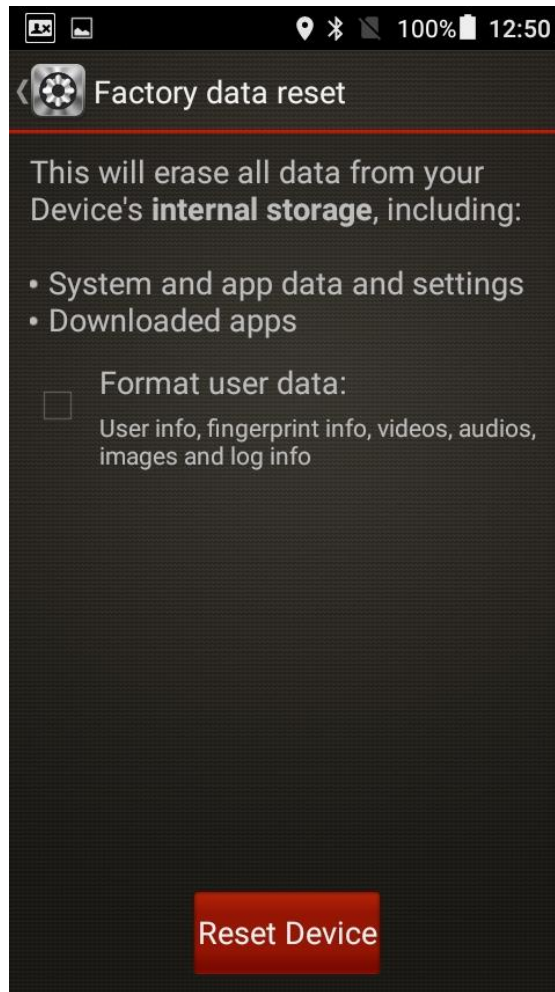


Figure 2-38

2.7.3.5 Factory test

It is to check the device basic functions are OK or not.

Tap Factory test, the factory test interface is shown as below. See Figure 2-39.

- Tap Start test, you can test each item on the list one by one.
- Tap the corresponding item; you can test the selected function.

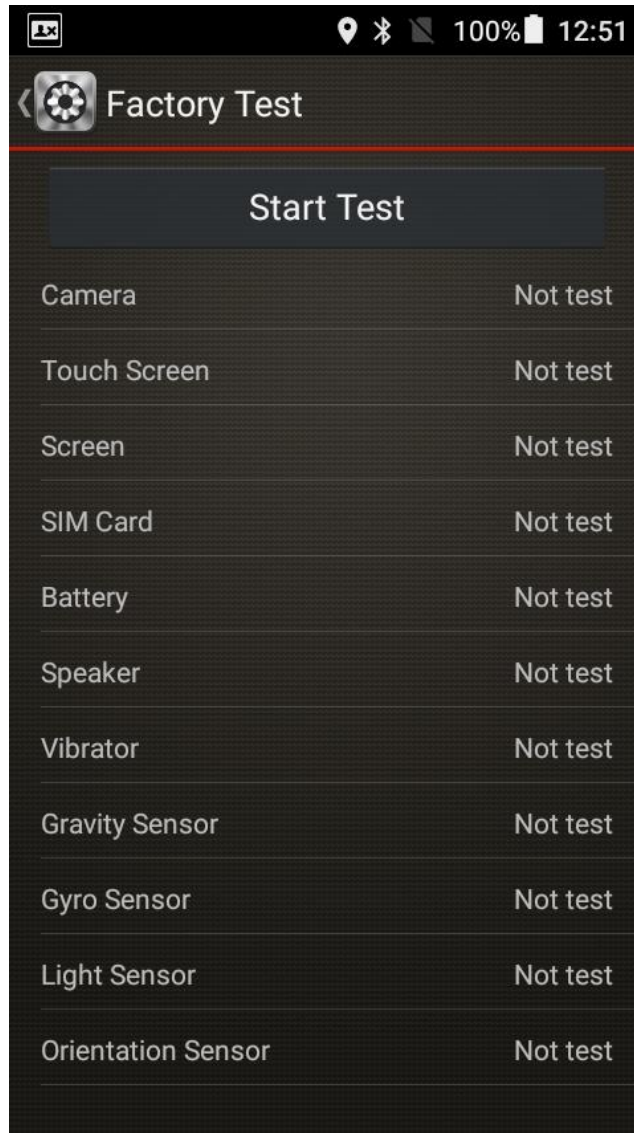



Figure 2-39

2.7.3.6 About Device

In this interface, you can view device status, type, SN and version.

Tap  About device, you can go to the following interface. See Figure 2-40.

- Tap System updates, you can upgrade device system and peripheral camera software.
- Tap Status, you can view battery state, battery level, SIM card state and etc. Refer to the following sheet for detailed information.




Figure 2-40

Please refer to the following sheet for detailed information.

Name	Function
Battery status	Current battery status such as power consumption, recharging status and etc.
Battery level	Current battery voltage.
SIM status	<p>It is to display SIM usage state.</p> <ul style="list-style-type: none"> ● Network: Current network type such as CDMA. ● Signal strength: Network signal intensity ● Cellular Network type: Data network type such as CDMA-EvDo rev.A: 6. ● Operator information: Operator basic information. ● Roaming: Device is roaming or not. ● Service status: It is to display mobile network status, connected or disconnected. ● My phone number: The mobile phone number after you inserted the SIM card. ● IMEI: It is to display the international ID of the mobile phone. ● IMEI SV: It is to display IMEI version.
IMEI information	It is to display the international ID of the mobile phone.
IP address	The connected router IP.
Wi-Fi address MAC	The connected Wi-Fi MAC address.

Name	Function
Bluetooth address	The connected Bluetooth address.
Serial Number	Device serial number.
Running time	The device running time after it booted up.

2.8 Account

From Settings->Device->User manage, or tap , you can go to the following interface. See Figure 2-41 (admin account) and Figure 2-42 (ordinary account).

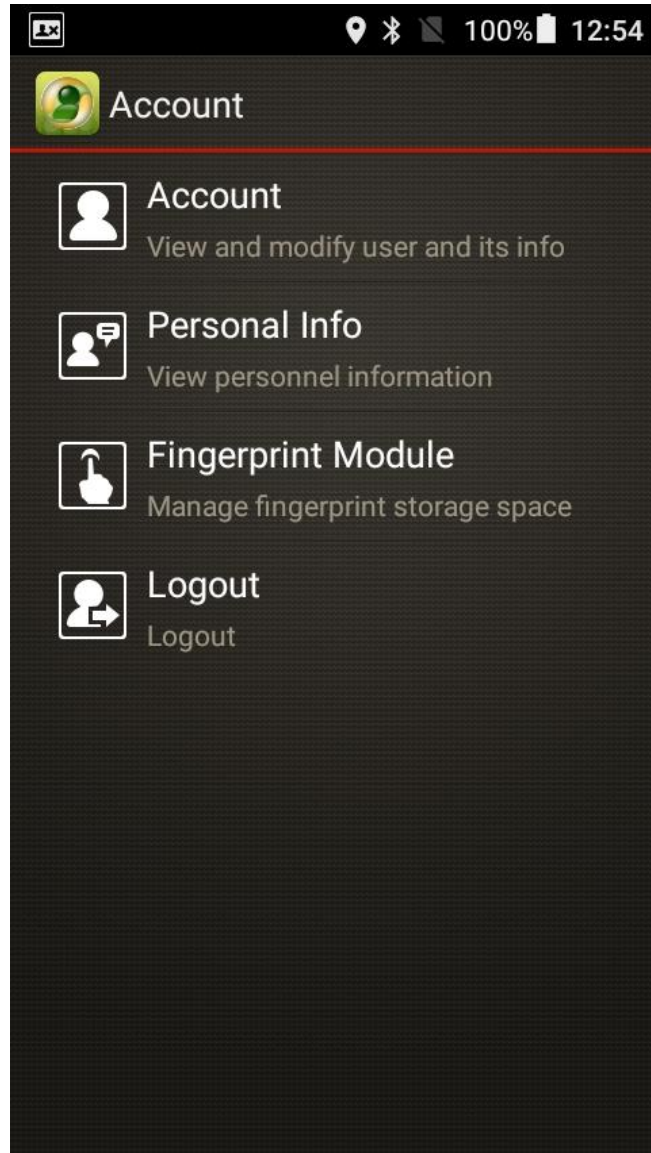


Figure 2-41

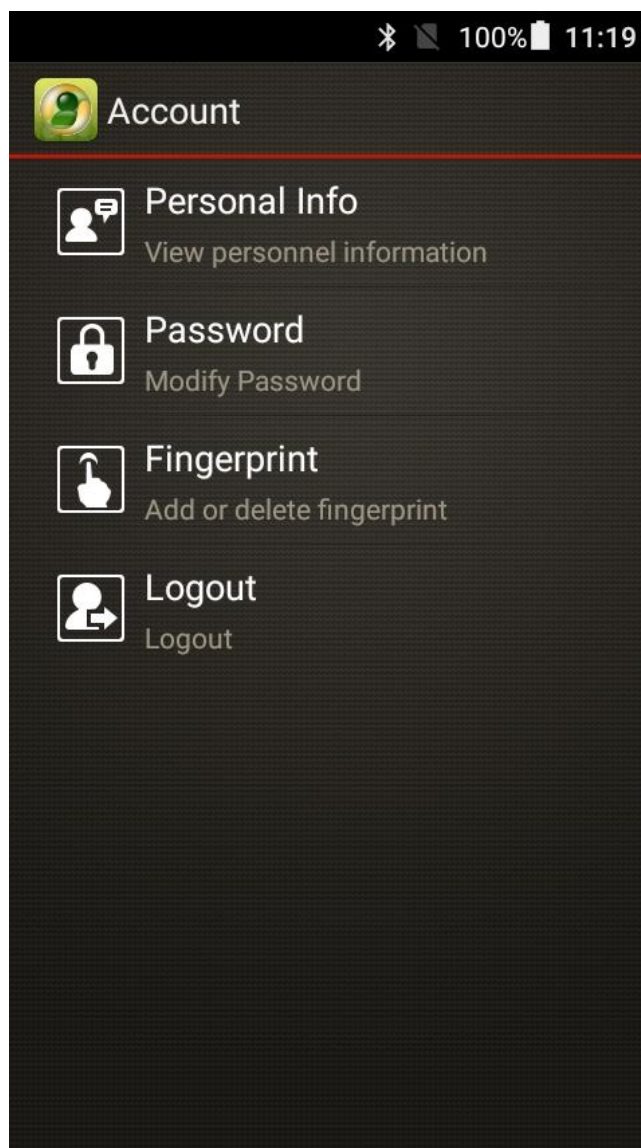


Figure 2-42

2.8.1 Account


Here you can add new user, edit account authorities, password.

Note

- Only the admin user has the user manage rights and can add user and set new user authorities.
- Device max supports 15 users.

2.8.1.1 Add User

Follow the steps listed below to add new user.

Step 1 On the main menu, tap  , you can go to the user list interface. See Figure 2-43.

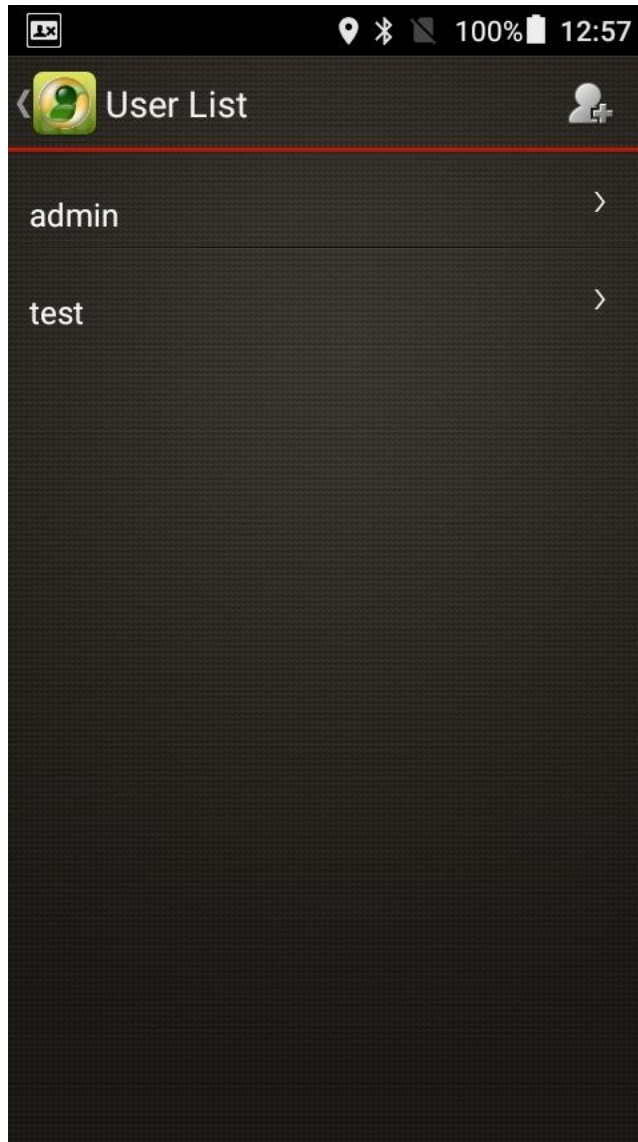



Figure 2-43

Step 2 Tap , device goes to add new user interface. See Figure 2-44.

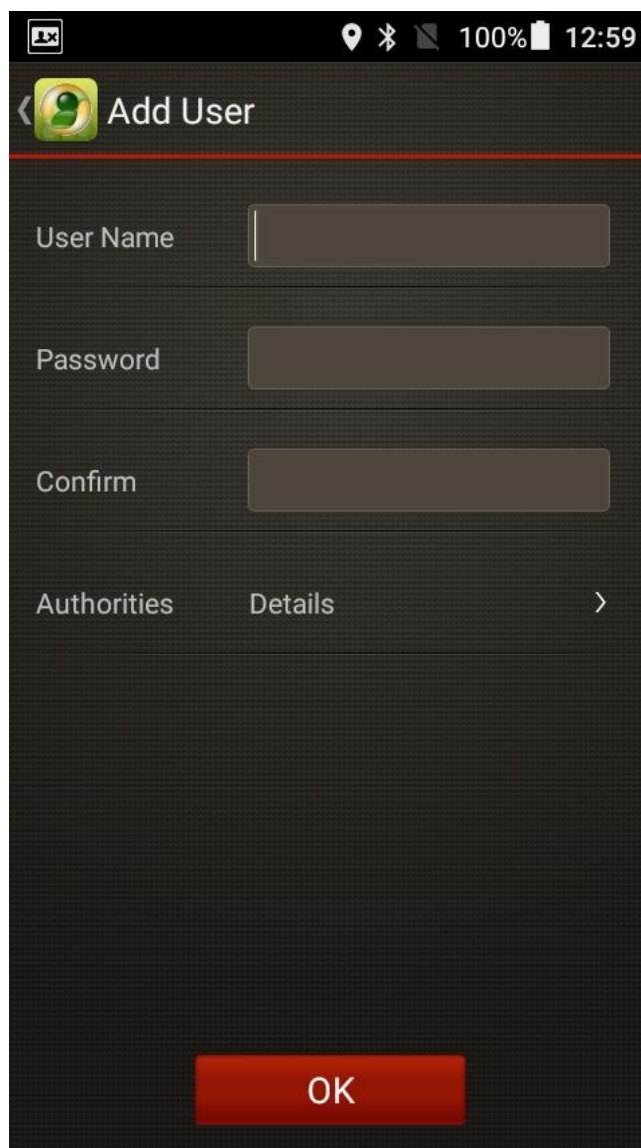


Figure 2-44

Step 3 Input user name, password, confirm password, memo and then set rights.

 **Note**

- The user name contains 1-20-digit English letter(s), number(s) and underline(s).
- The password contains 8-32-digit English letter(s), number (s) and special character(s). The password shall at least contain two types such as a123456.
- Hide the on screen keyboard to view the detailed authorities list.

Step 4 Tap OK button to complete the setup. After you successfully added a new user, you can go to the user list and then Tap it, now you can go to the following interface to set its memo and authorities. See Figure 2-45.

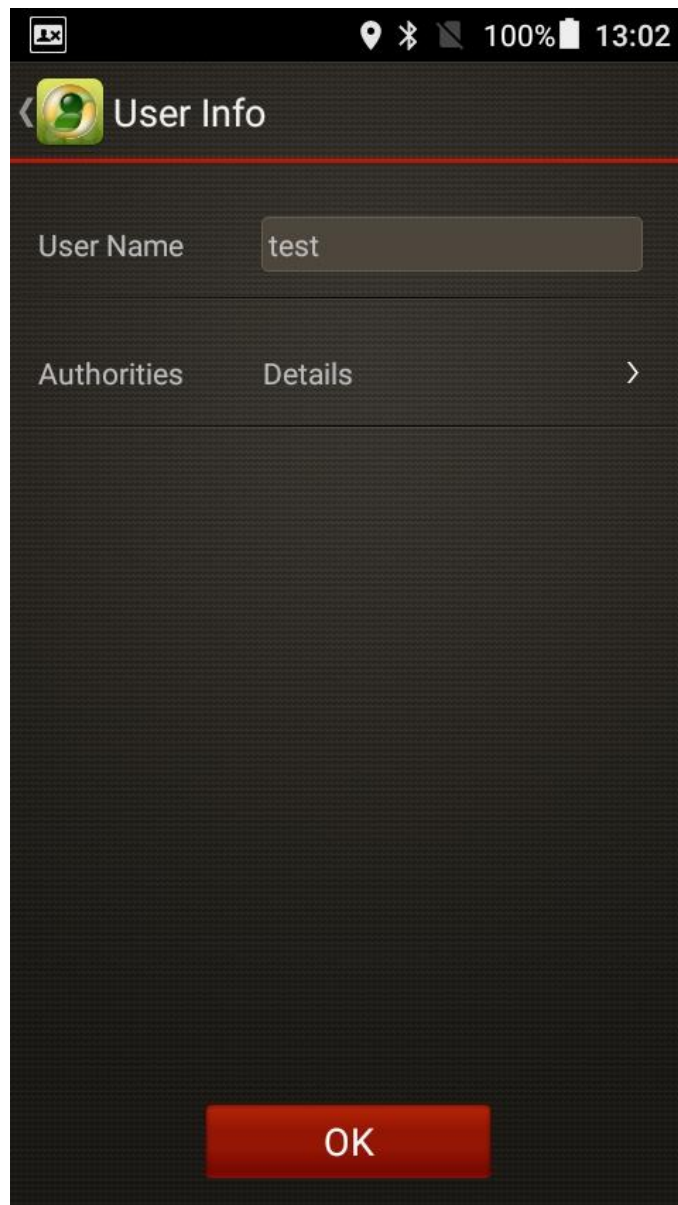



Figure 2-45

Step 5 Tap Authorities, device displays authorities interface. Here you can view and edit user rights.

Step 6 Tap OK to save setup.

2.8.1.2 Edit User



Step 1 On the main interface, tap , you can see user list interface. See Figure 2-43.

Step 2 Tap a user you want to edit (such as admin), you can view personnel information interface. See Figure 2-46.

Note

- **admin** is device default user of highest authorities. You cannot change its authorities.
- Only admin can edit other user authorities.

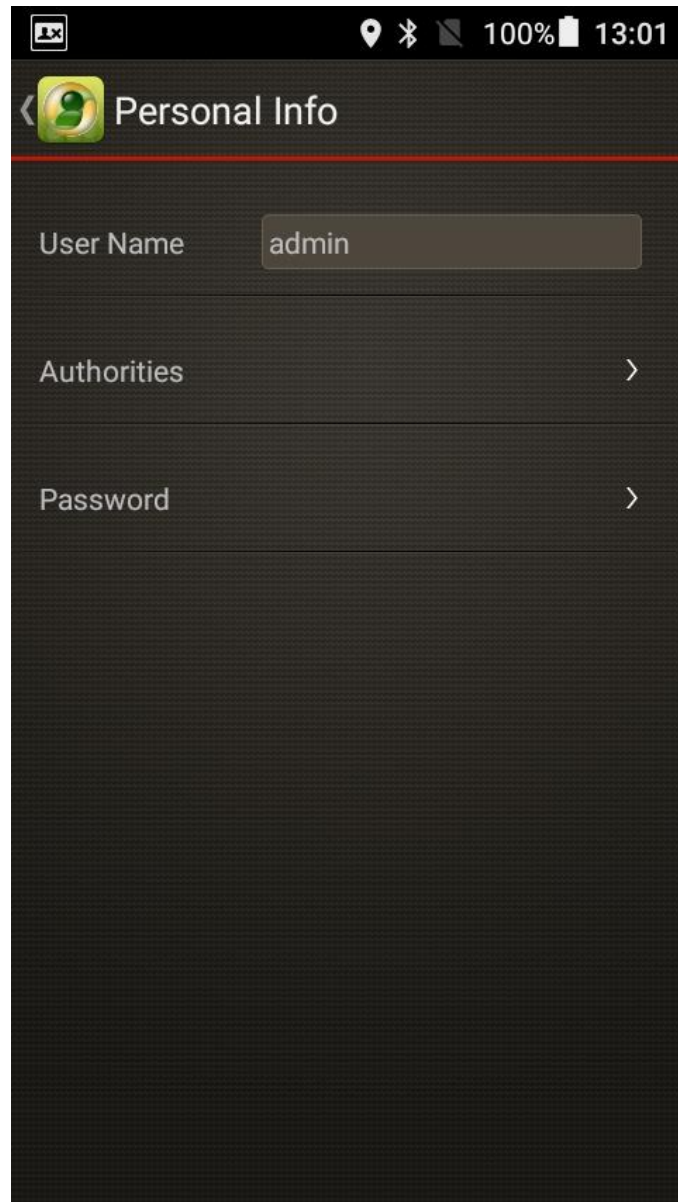


Figure 2-46

Step 3 Tap Password, you can go to the password setup interface. See Figure 2-47.

- Tap Password, you can change current user password. Refer to chapter 2.8.4 Password settings for detailed information.
- Tap Fingerprint, you can add, delete user fingerprint information. Refer to chapter 2.8.5 Fingerprint manager for detailed information.

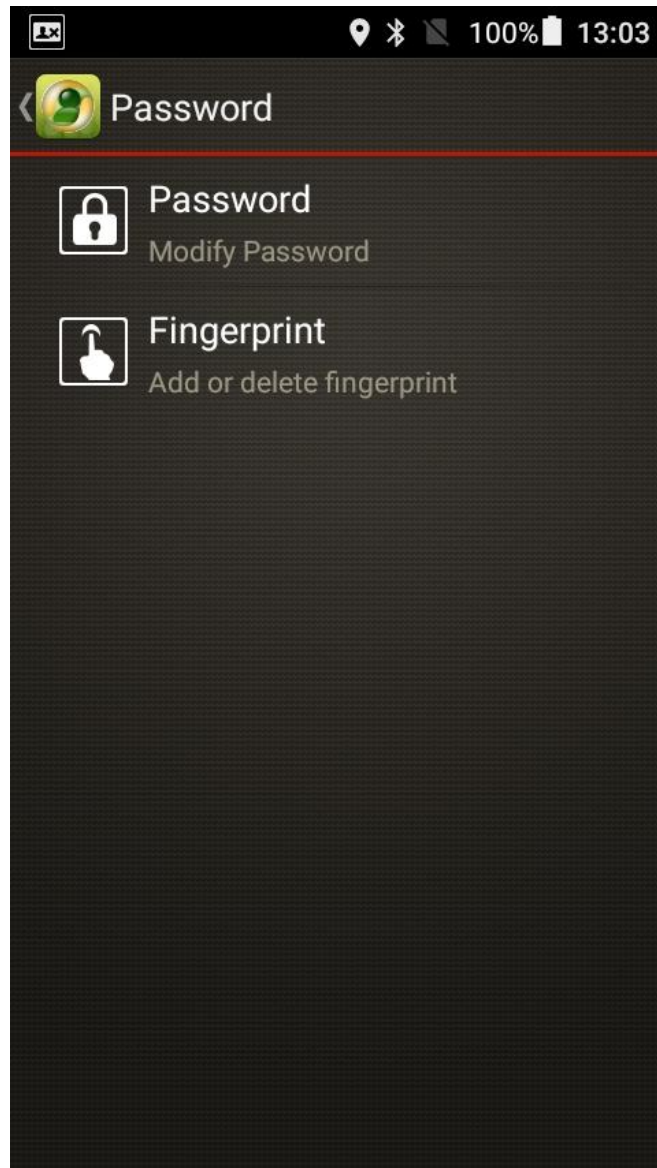


Figure 2-47

2.8.2 Personal Information

- For admin account, it can search personal information, change admin password, add/delete fingerprint. See Figure 2-48.
- For general user, you can search current account information. See Figure 2-49.

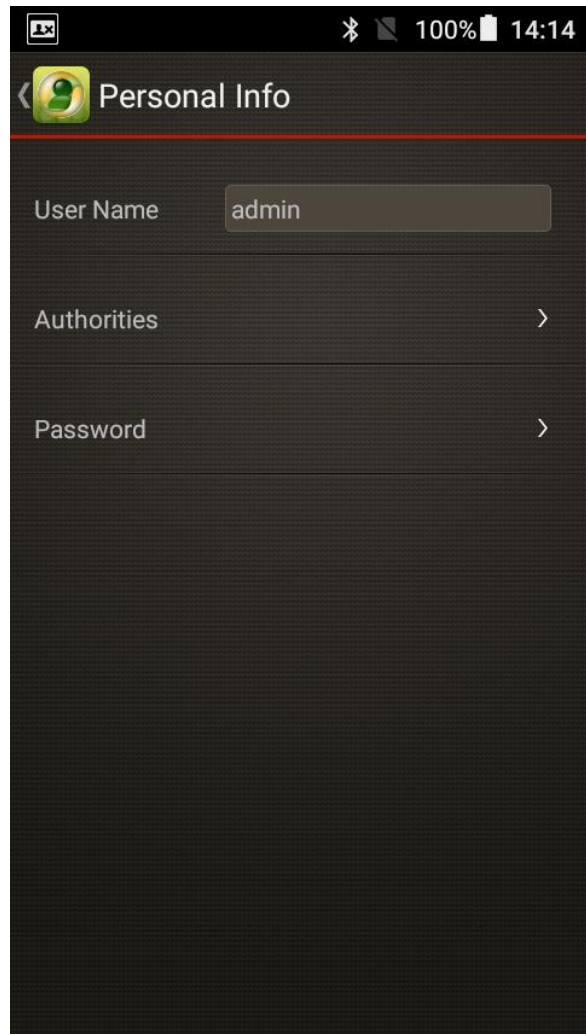


Figure 2-48

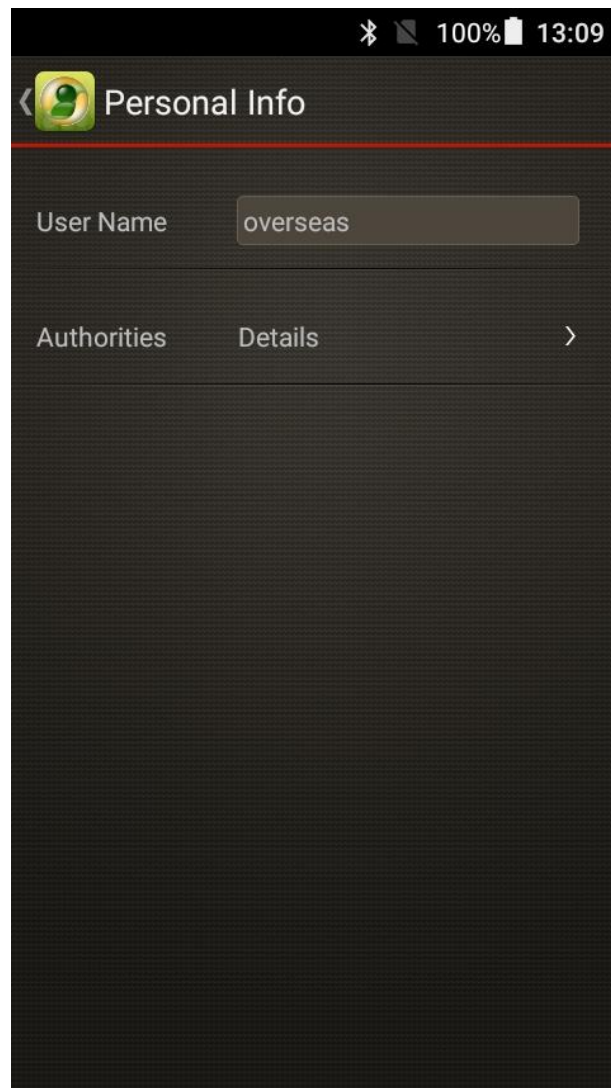


Figure 2-49

2.8.3 Fingerprint Module

This function is for **admin** only.

Tap Fingerprint module, you can view the following interface. See Figure 2-50.

- Use user list dropdown menu to select different users to view different fingerprints.
- Tap Format module, device clears all user fingerprints.

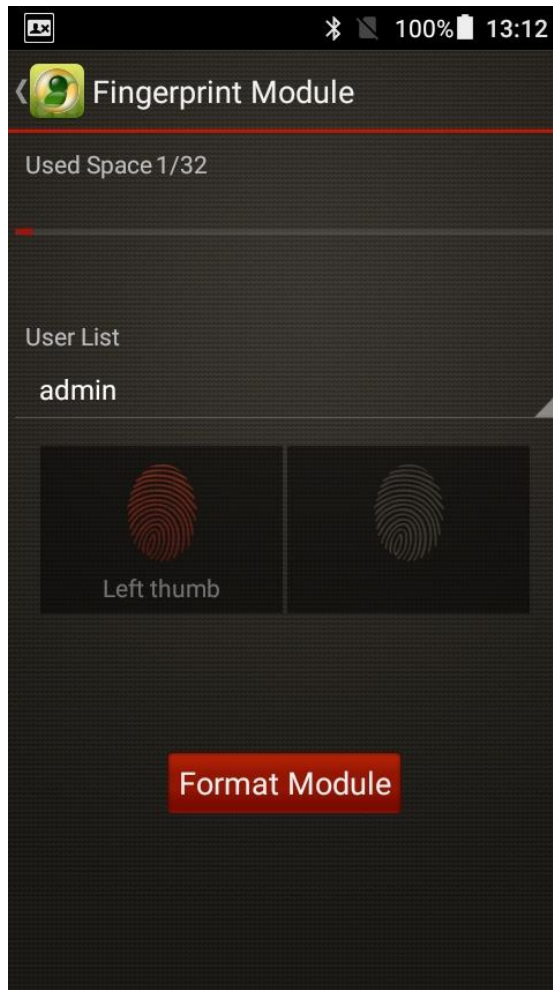


Figure 2-50

2.8.4 Password Settings

You can change current login user password.

 **Note**

The following interface is based on **admin**.

Please follow the steps listed below.

Step 1 Tap Password, you can see the following interface. See Figure 2-51.

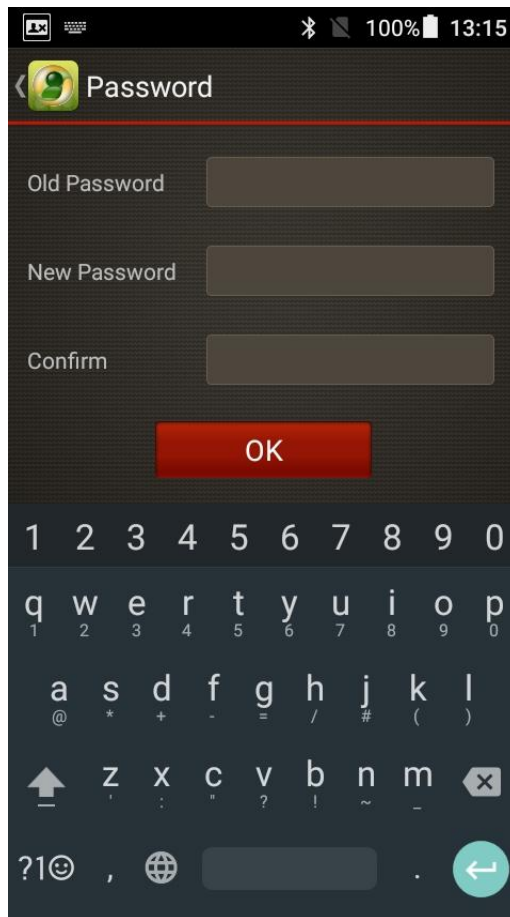


Figure 2-51

Step 2 Input old password, new password, and confirm.

Step 3 Tap OK to complete.

2.8.5 Fingerprint Maintenance

Here you can scan fingerprint. You can login via scanning fingerprint after you successfully saved the fingerprint information.

Note

The following interface is based on **admin**.

Please follow the steps listed below.

Step 1 Tap Fingerprint maintenance, you can go to the following interface. See Figure 2-52.

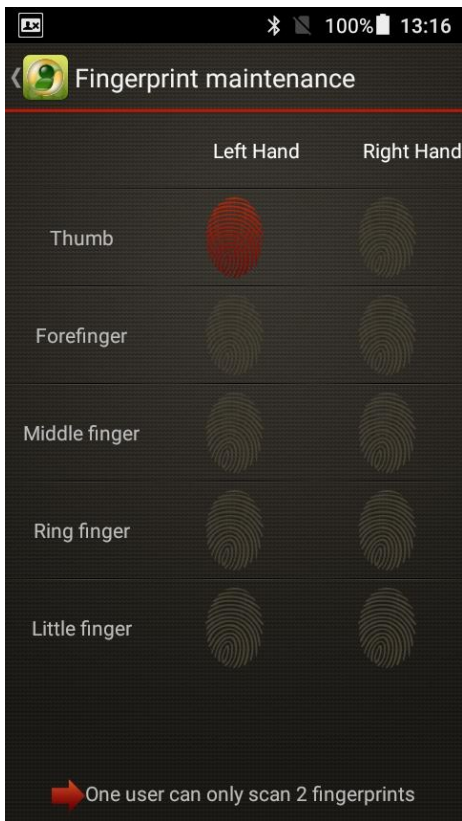


Figure 2-52

Step 2 Follow the prompts to scan the fingerprint. See Figure 2-53.

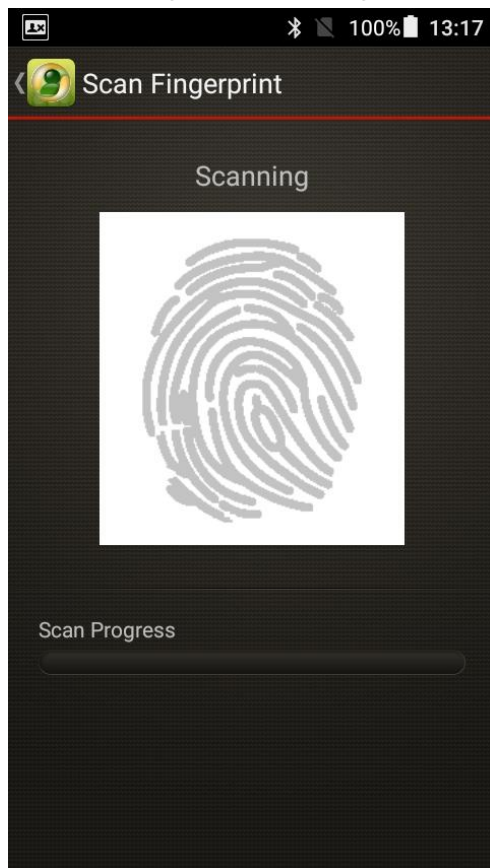


Figure 2-53

Step 3 Put your corresponding fingerprint on the sensor (Refer to Figure 1-1 for detailed position), slightly touch the fingerprint sensor. Follow the prompts on the process bar and then stop. See Figure 2-54.

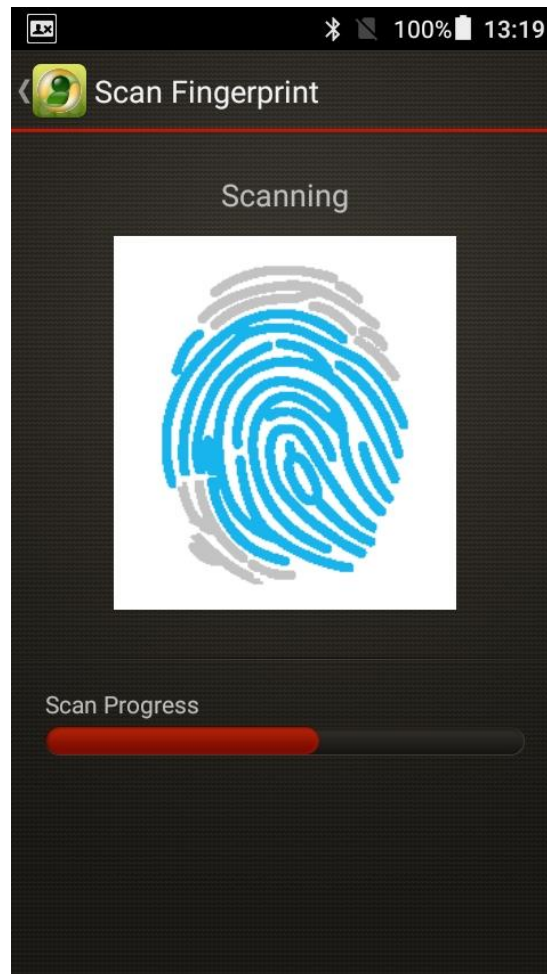


Figure 2-54

Step 4 Tap OK button, now the fingerprint scan is complete.

Step 5 On the fingerprint list, the scanned fingerprint is shown as red. Tap one fingerprint on the list, you can delete it.

 **Note**

One account max can save two fingerprints.

2.8.6 Logout

Tap Logout and then Tap OK button, it is to logout current user from the device. You need to input password or scan fingerprint to login again.


2.9 Audio Talk

Enable audio talk function and then set corresponding parameters, the device can realize dual-way talk with the platform.

Before the operation, please make sure:

- Device has registered to the platform. Refer to chapter 2.7.2.2 Platform for detailed information.
- Device has set the corresponding parameters and enabled audio talk function. Refer to chapter 2.7.2.5 Audio Talk for detailed information.

Please follow the steps listed below.

Step 1 Tap , you can view contacts interface. See Figure 2-55.

Note



- After device successfully registered the platform, the device can get user information from the platform.
- The audio talk function is for online user only.  means current user is online.
- Tap  to view audio talk history.



Figure 2-55

Step 2 Tap a user first; you can view its detailed information. See Figure 2-56.

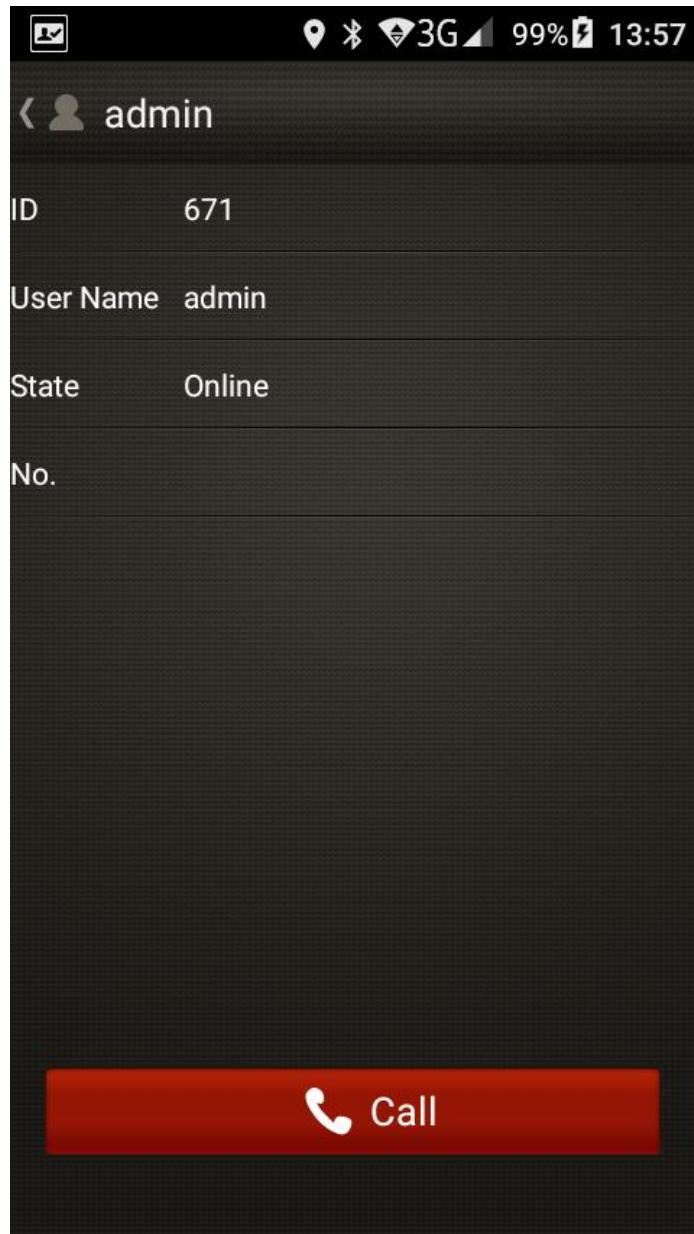


Figure 2-56


Step 3 Tap Call button, device starts audio talk function. Device goes to calling interface. Tap Hang up, you can stop audio talk.

2.10 SMS

You can send SMS to the online user. The SMS contents include letters, photo, and emoticon. The device support SMS batch send function. You can send one SMS to several online users.

Before the operation, please make sure the device has registered to the platform. Refer to 0 for detailed information.

Please follow the steps listed below.

Step 1 Tap , you can go to SMS interface. See Figure 2-5.
Tap Check, you can delete the SMS.

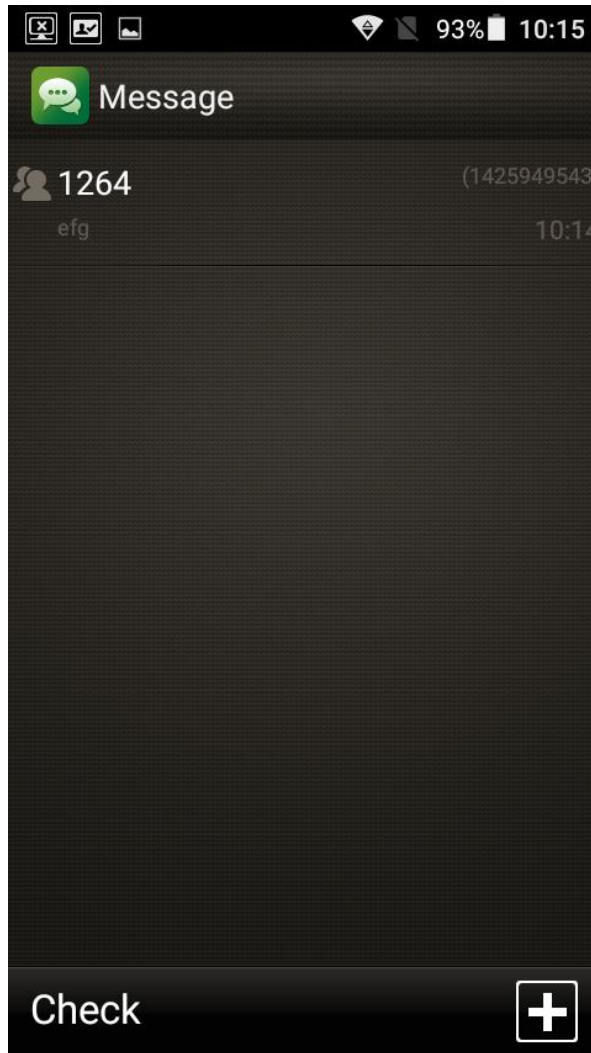




Figure 2-57

Step 2 Tap , you can select the online user you want to send SMS.
Device goes to message edit interface. See Figure 2-58.

 **Note**

- After device successfully registered to the platform, device can auto get user information from the platform.
- This function is for online user only.  means current user is online.

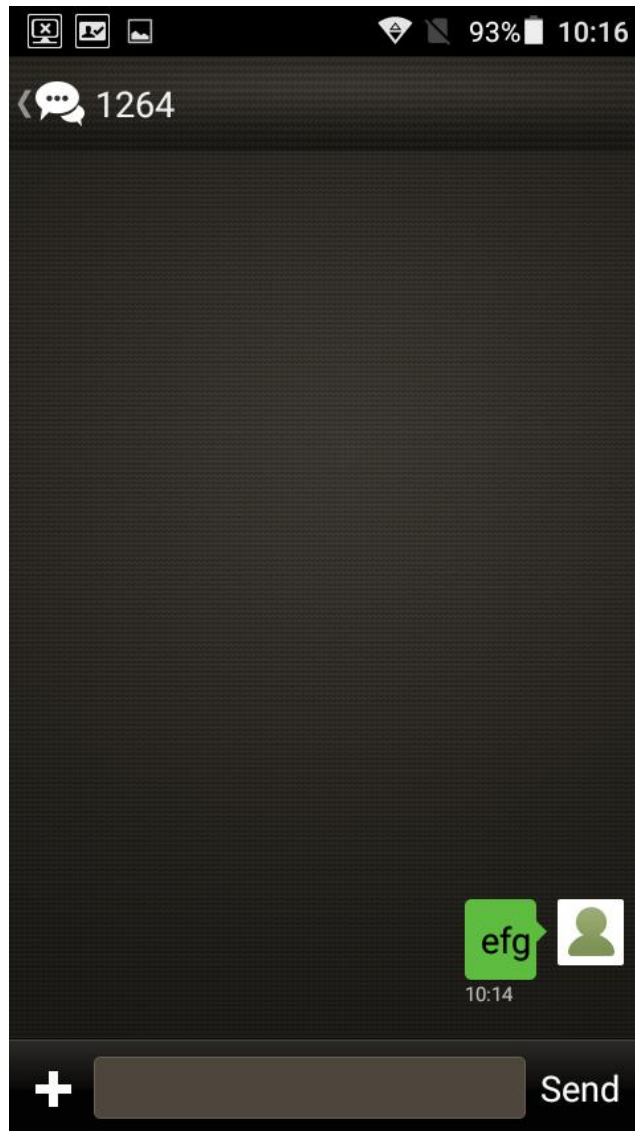




Figure 2-58

Step 3 Input the contents and then tap Send button.


Tap  to select photo, tap  to select emoticon.

2.11 Log

It is to search log information via user name.

Please follow the steps listed below.



Step 1 Tap , you can go to the following interface. See Figure 2-59.

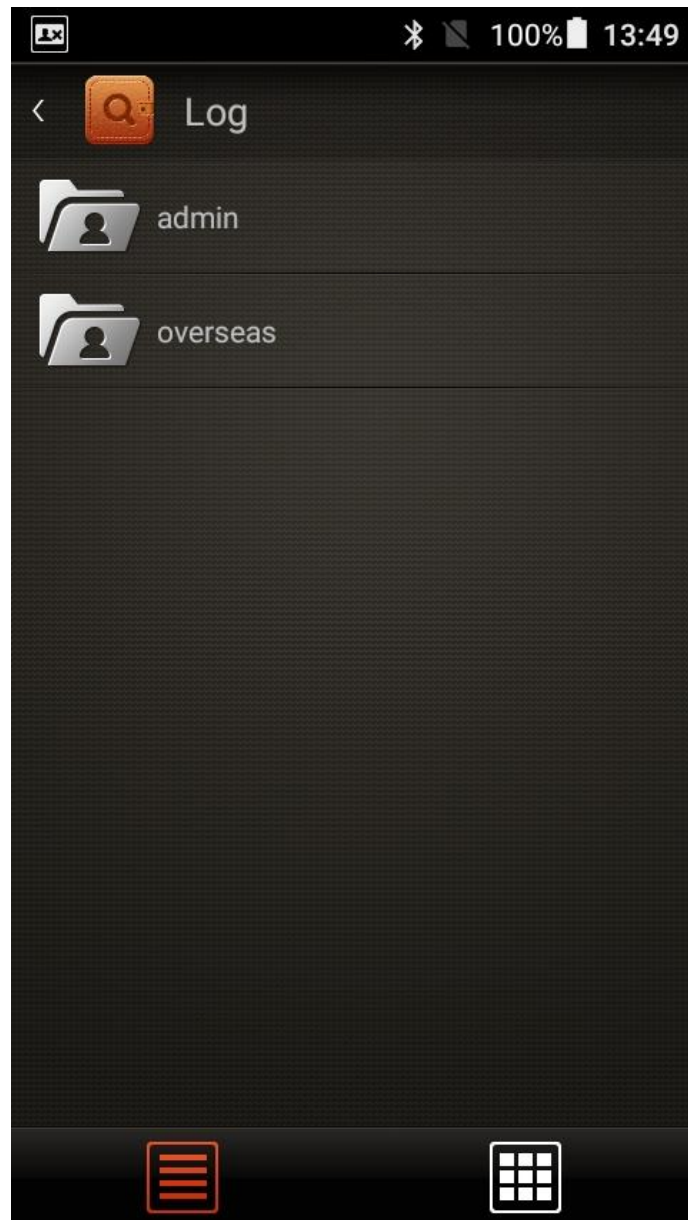


Figure 2-59

Step 2 Tap a user name and you can view the file list. See Figure 2-60.

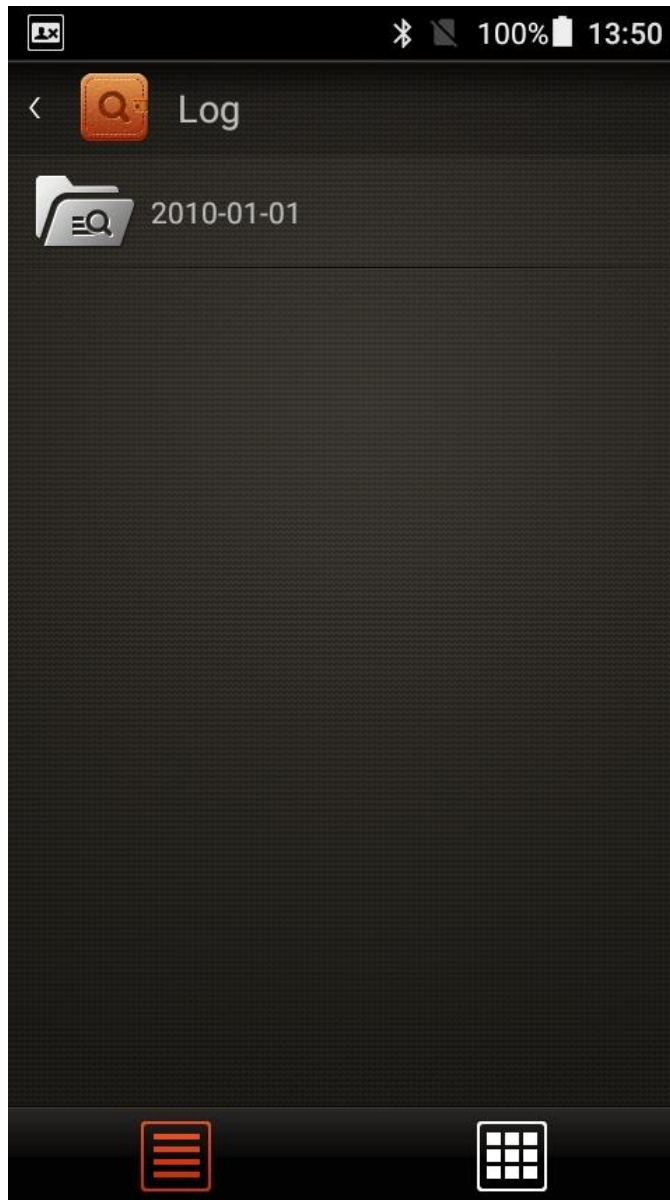






Figure 2-60

Step 3 Tap a date, you can view all logs. See Figure 2-61.



Figure 2-61

Please refer to the following sheet for detailed information.

Icon	Note	Icon	Note
	Display all logs.		Display device logs.
	Display user logs.		Display alarm logs.

Step 4 Tap the log you want to view. You can view detailed log information. See Figure 2-62.

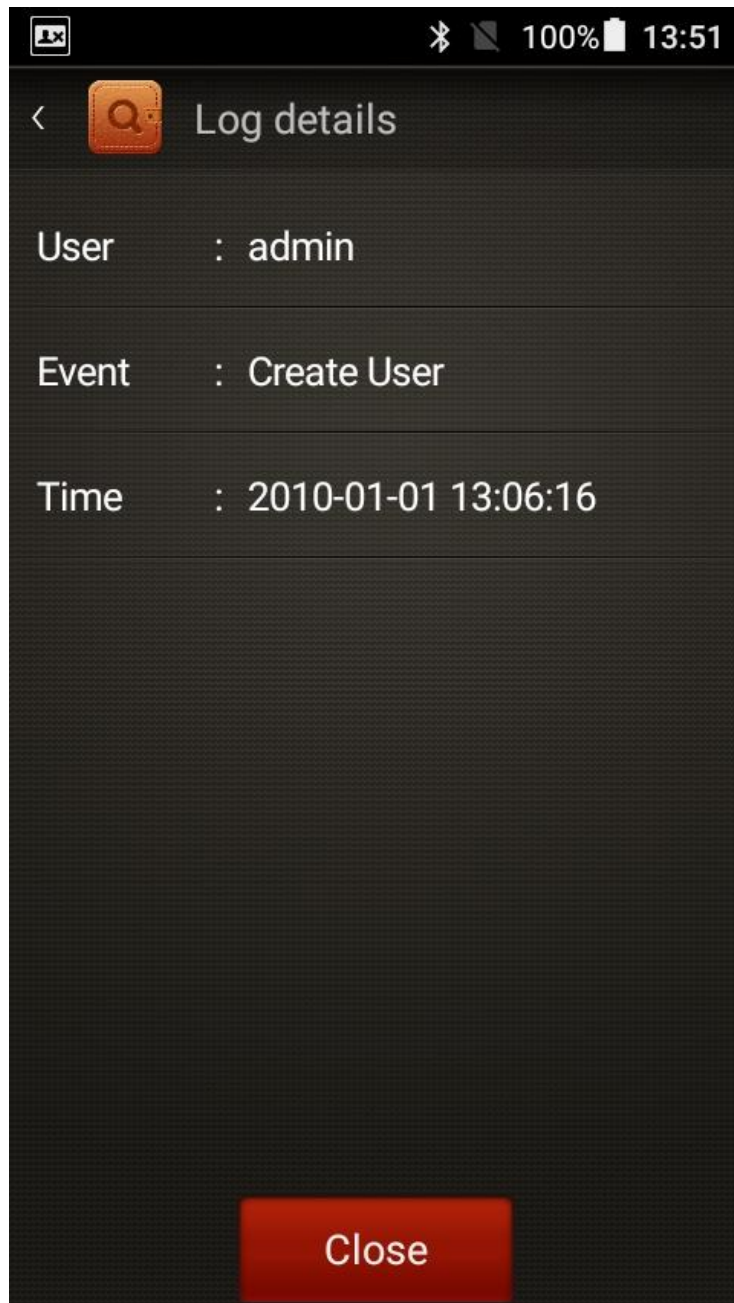


Figure 2-62

2.12 Plate Recognition

Device supports plate recognition function. You can upload plate number photo to the platform to manage.

Tap , you can view plate recognition interface. See Figure 2-63.

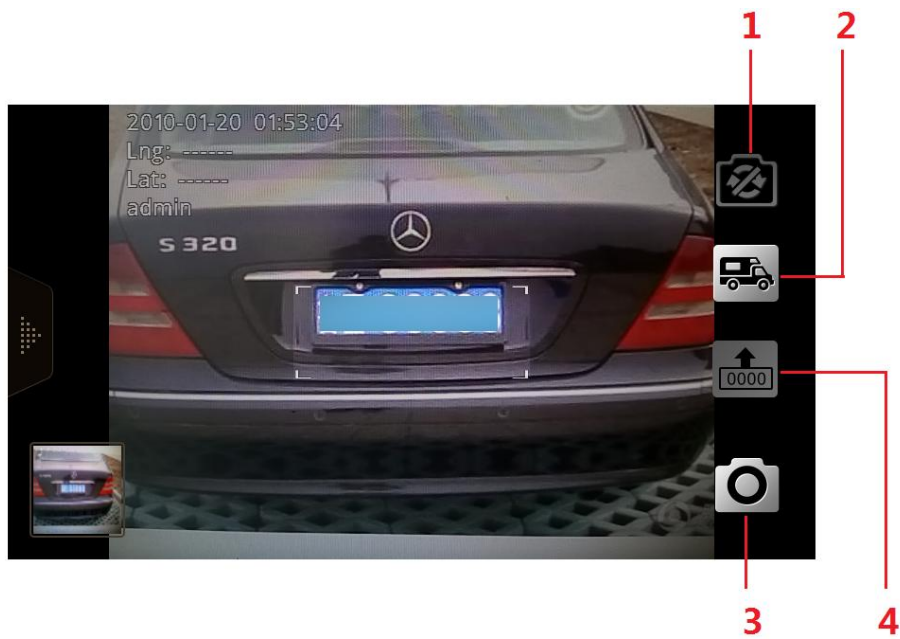




Figure 2-63

Please refer to the following sheet for detailed information.

SN	Note
1	<p>Tap it, device can use the peripheral camera to snapshot or view the HDMI signal source.</p> <p> Note Please make sure device has connected the peripheral camera or the HDMI signal device.</p>
2	<p>Put the camera facing the plate number and then tap the icon, device can display recognition results window. Tap OK button, device auto snapshot and display the recognition result at the snapshot image.</p>
3	<p>Tap it, device can snapshot one image.</p>
4	<p>Tap it, device can upload the image to the platform.</p> <p> Note Please make sure the device has connected to the platform. Refer to chapter 4 Platform Connection for detailed information.</p>

2.13 Alarm

On the right of the side pane, there is an alarm button. Press it to trigger an alarm, and the device can record the corresponding log. See Figure 2-64. After you connected the device to the platform, it can upload the alarm information to the platform. Device can generate an alarm and save the log once it vibrates or fell down.

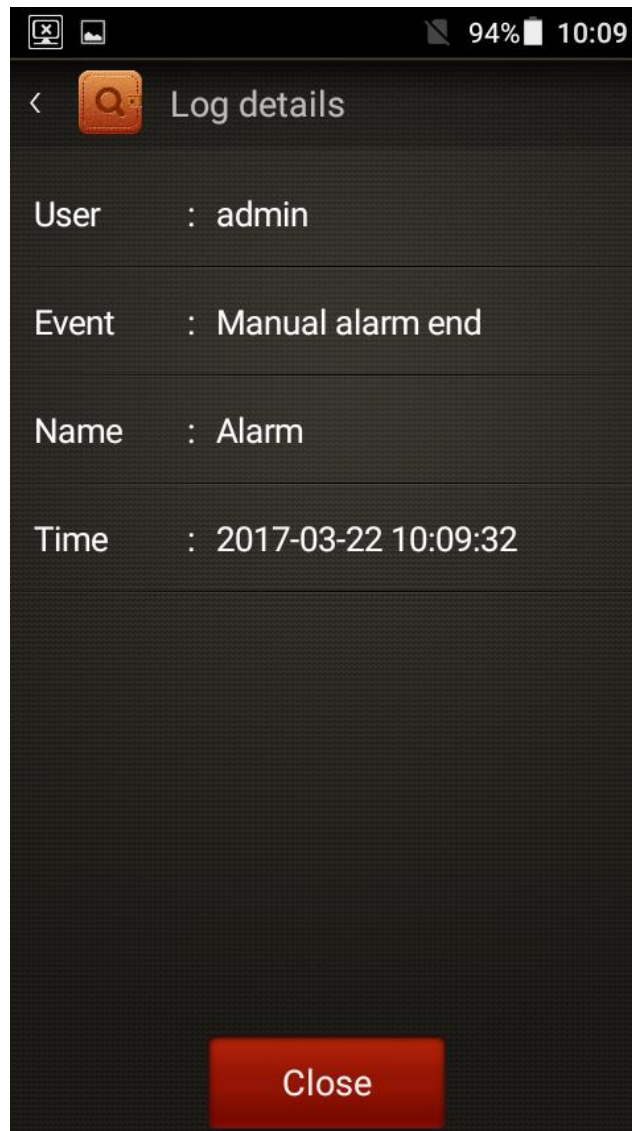




Figure 2-64

When there is an alarm, the status bar shown as , flick down and tap the alarm message, device displays alarm interface. See Figure 2-65. Tap  to cancel the alarm.

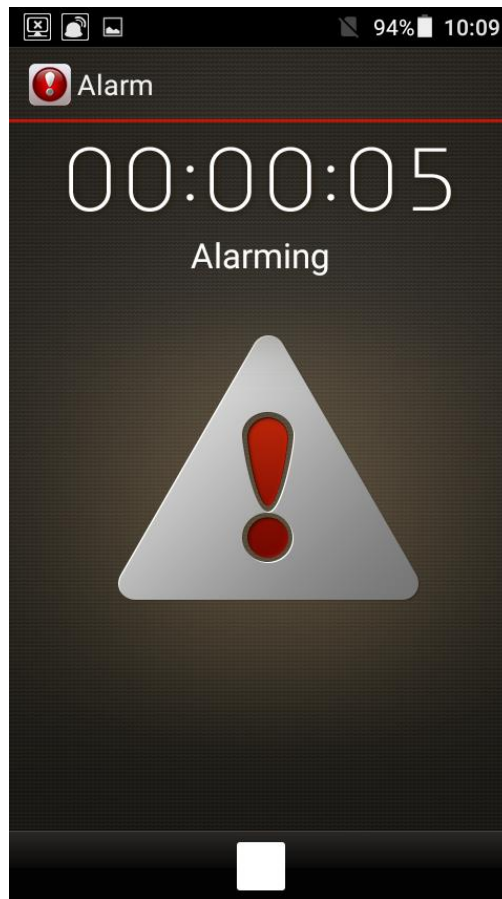


Figure 2-65

2.14 Calculator



Tap **Calculator**, you can go to the calculator interface.

2.15 Calendar



Tap **Calendar**, you can go to the calendar interface. Here you can add new activity, refresh, search and etc.


2.16 Clock



Tap **Clock**, you can view clock interface. Here you can set timer, device time, night mode, or start countdown, or stopwatch.


2.17 BLE Manager



Tap , you can view BLE manager. In this interface, you can edit bluetooth device.

2.18 QR Code



Tap , you can view QR code interface. Scan QR code, device can display QR code information.

2.19 System Maintenance

Here you can install the software, upgrade device system, upload system logs to the platform.

Before start, please make sure:


- Device has successfully registered to the platform. Refer to chapter 2.7.2.2 Platform for detailed information.
- When you are using local APP Installation and Local system upgrade, please save the software package or upgrade file on the TF card and insert the card to the device.



Note

On the system maintenance interface, tap Settings, you can go to platform setup interface. Please follow the steps listed below.



Step 1 Tap , you can view device maintenance interface. See Figure 2-66.

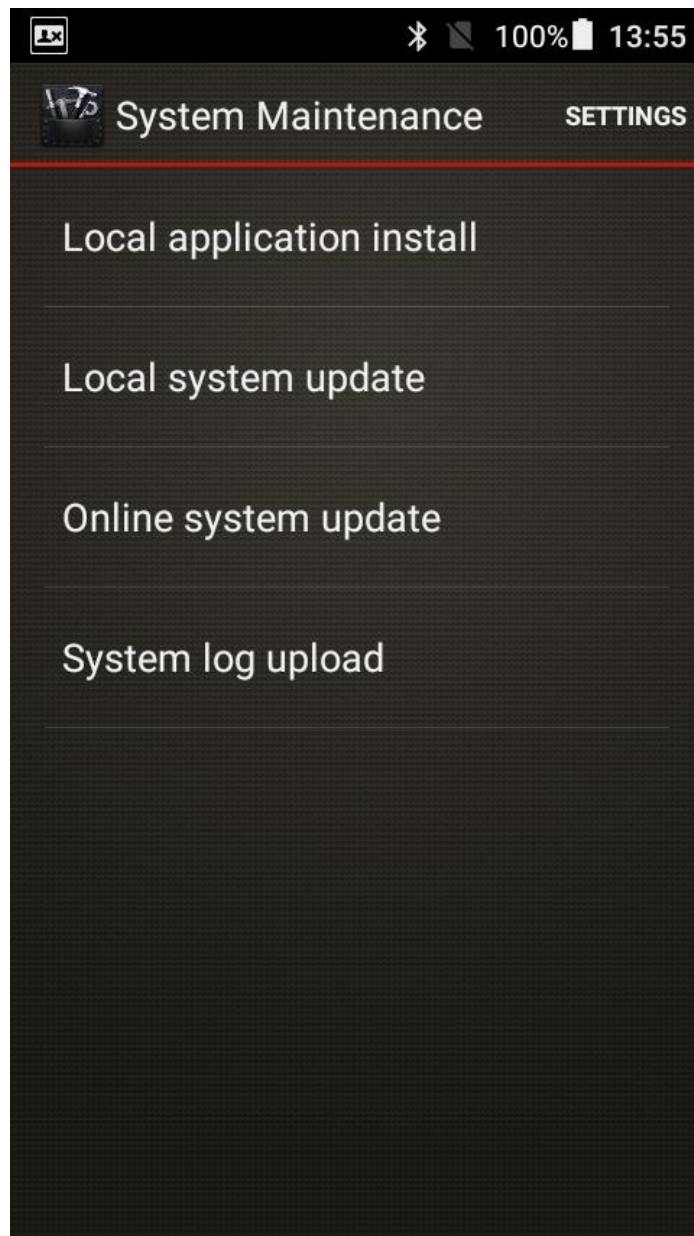



Figure 2-66

Please refer to the following sheet for detailed information.


Name	Function
Local application install	Tap it, device can auto recognize all applications installation package on the TF card, Tap the applications package to install.
Local system update	Tap it, device can auto recognizes the upgrade file in the TF card, Tap the file to upgrade.
Online system update	Tap it, device can auto detect and prompt you to upgrade if there is new version on the platform. Please download the upgrade file to the device and then begin to upgrade.

Name	Function
System log upload	<p>Tap it, you can upload the application logs and internal log to the platform. You can access the platform FTP and go to the Log folder to check the uploaded file information.</p> <p> Note</p> <ul style="list-style-type: none"> • When uploading logs, the device auto creates a folder such as 6D7T6TU8CQ6LNZV4 on the logs folder. The uploaded logs are saved in that folder. • From Settings->System->About device, you can view device serial number.

3 Upgrade

Before you use the upgrade function, from the main interface->Settings->Device->Platform settings, please enable the platform function, and the local port shall be 37777.

You can use the upgrade tools included in the resources CD to update the device.

Step 1 Open the upgrade tool; you can go to the main interface, Tap . System pops up the login interface. See Figure 3-1.

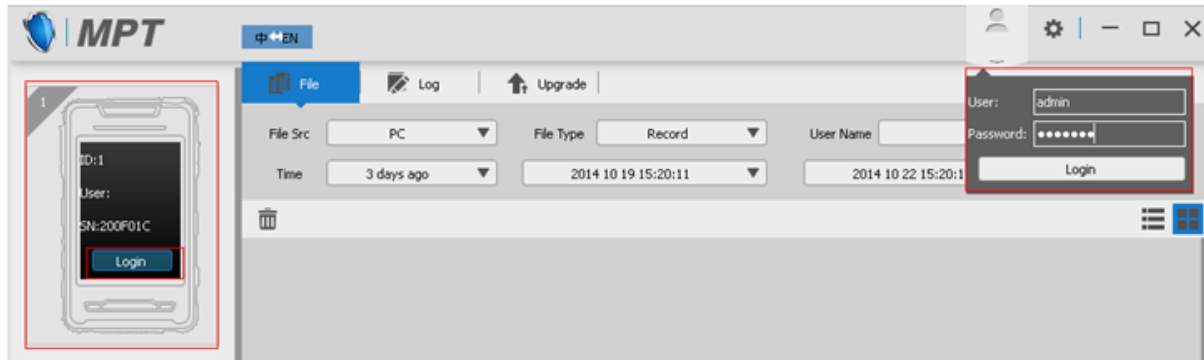


Figure 3-1

Step 2 Input user name and password.

Note

The default user name is **admin** and the password is **123456**.

Step 3 Select a device you want to connect to on the left pane, and then Tap the Login button. System pops up the device login in dialogue box. See Figure 3-2.

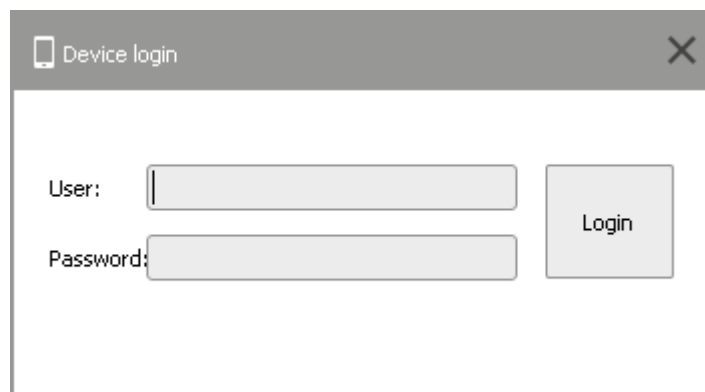


Figure 3-2

Step 4 Input upgrade device user name and password, and then Tap Login button. You can view current version after you successfully logged in. See Figure 3-3.

Note

Tap Logout to disconnect the device from the upgrade software.

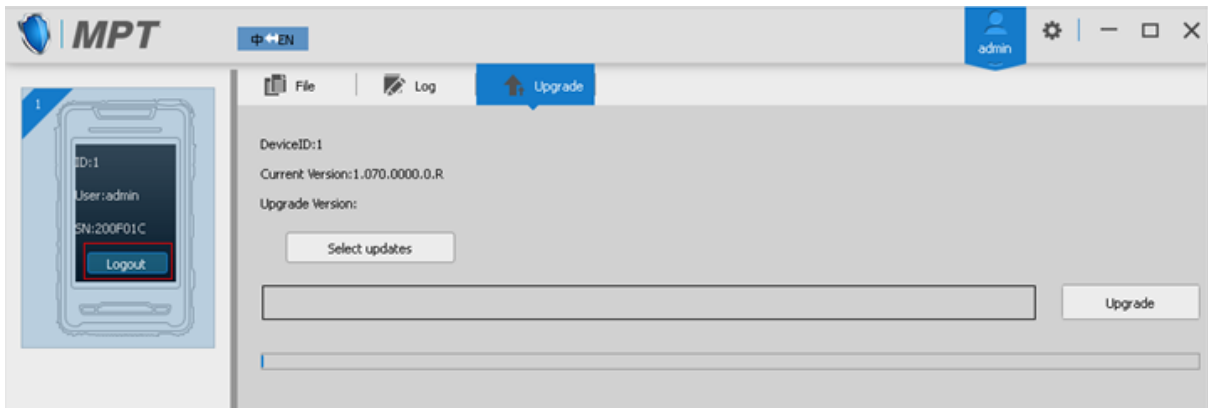
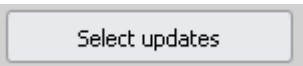
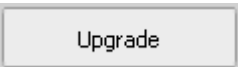


Figure 3-3

Step 5 Click  button to select the software and then Tap  button. Now you can view the following interface during the upgrade process. See Figure 3-4.

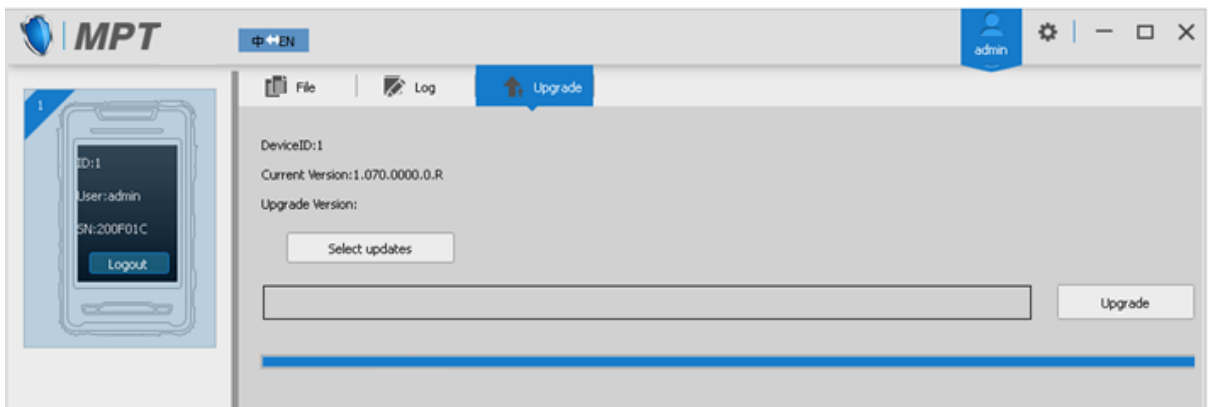


Figure 3-4

Step 6 You can view the following icon on the device. See Figure 3-5.



Figure 3-5

Step 7 Tap it; you can see an interface shown as in Figure 3-6.

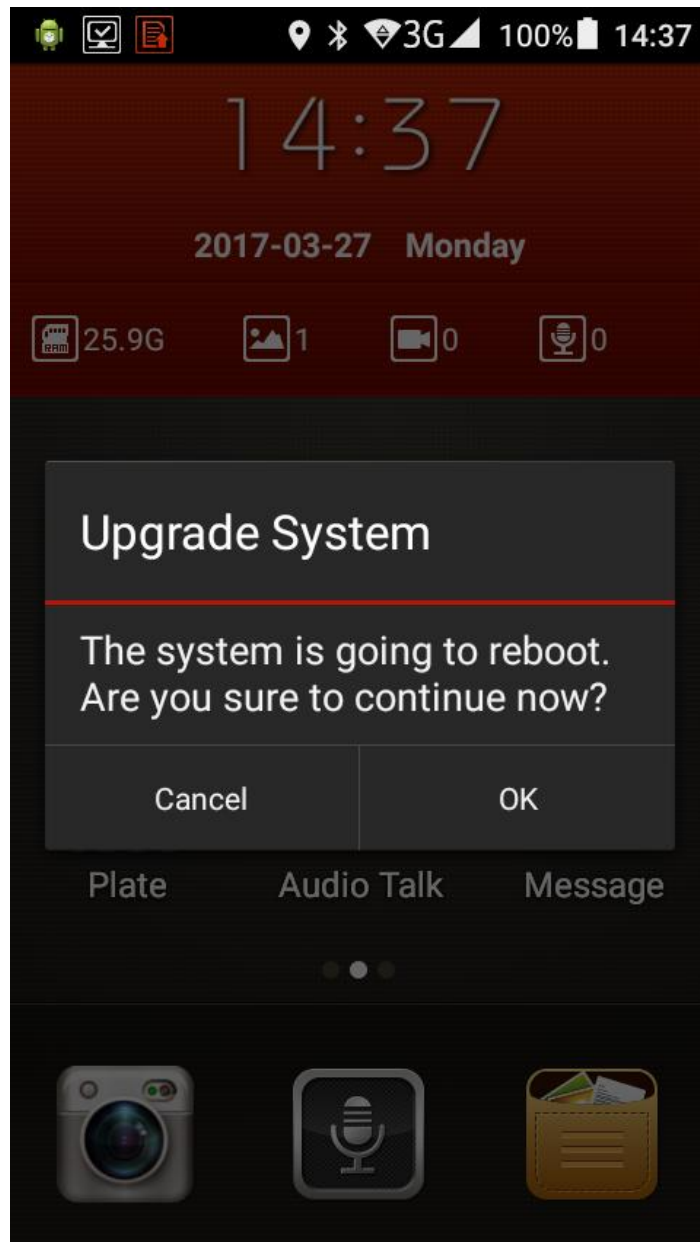


Figure 3-6

Step 8 Tap OK to reboot.

Step 9 Implement factory data reset function to complete the upgrade. Refer to chapter 2.7.3.4
Factory data reset to restore the factory default setup.

4 Platform Connection

You can control and manage device via platform.

4.1 Device Settings

Note

Please make sure the network connection is OK and device is online so that it can be added to the platform.

Please follow the steps listed below.

Step 1 Set platform connection parameters.

Step 2 On the device, from Settings->Device->Platform, you can go to the following interface to input parameters. See Figure 4-1.



Figure 4-1

Step 3 Please refer to the following sheet for detailed information.

Name	Function
Platform connection	Enable/disable device connection to the platform server.
Device ID	Input customized device ID on the platform server. Please make sure It is the same as the platform.

IP Address	Input platform server IP address.
Remote Port	Input platform server listening port. The default setup is 9500.
Local port	Input device listening port. The default setup is 37777.

Step 4 Enable platform connection function and then tap OK.


4.2 Platform Settings

Please follow the steps listed below to login the platform.

Step 1 Login DSS manager end and then from General->Device->Device->Encoder, and then Tap Add button, you can see the following interface. See Figure 4-2.

Figure 4-2

Step 2 Please refer to the following sheet for detailed information.

Name	Function
Add Type	Please check the box to enable auto register function.
Proxy port	The value ranges from 1 to 65535.
	 Important

	The proxy port of each device is unique. It shall be the same as the port of other device.
Registration ID	It is the same as the device ID in Figure 4-1.
User name/password	It is the same as the mobile portable terminal device. The user name is admin and the password is what you set when you first login.
Device name	Input customized device name.
Device type	Please select mobile portable terminal from the dropdown list.
Video channel	The value is 1.
Alarm input channel	The value is 1.

Step 3 Click OK button to complete the add process.

5 FAQ

Login

Q: For the new user, I want to know the default account.

A: The default user name is **admin** and you need to set the login password if it is your first time to use the device. Refer to chapter 2.2 Login for detailed information.

UI

Q: How to delete the App from the third party.

A: Press the App icon on the screen for a long time and then you can see a delete icon. Tap it to delete the App.

Q: The touch screen interface is distorted when the device is recharging.

A: The problem results from the poor-quality recharger. Please use our default recharger.

File manager

Q: The file manager interface is loading file all the time. Or the device stops working saying it is deleting when I want to delete some files.

A: Tap Home and then tap File again.

Q: The image is blurry when I open the file management interface. Or the screen becomes black when I playback the video file.

A: Reboot the device, and then open the file again.

Record audio

Q: The audio is abnormal when I connect the device to the headset.

A: Please make sure the headset supports the international standard. Or you can change another headset.

Q: There is no audio when I use audio call via Bluetooth or play file.

A: Disable and then enable the Bluetooth again.

Q: The audio is abnormal when I connect to the Bluetooth dynamically when I am recording audio or having audio talk with the platform.

A: Please connect to Bluetooth headset first and then enable recording audio or starting audio talk function.

Setup

Q: How to set an APN?

A: From setting->Network->Data->Mobile network->Connection name (APN), tap the three-point icon at the right bottom corner. Tap New button (please contact your SIM card carrier for detailed APN information.)

Q: How to set a VPN?

A: From setting->Network->Data->VPN, tap Add VPN configuration file (please contact your VPN carrier for detailed information.)

Q: VPDN network is offline?

A: From setting->data->Mobile network->Connection name (APN), change APN name password (Please contact your carrier for the name and password). For the rest items you can use default setup. Tap Save button.

Q: GPS function is null.

A: Take the device to the outside environment, open GPS for about one minute and a half. You can see the GPS function is valid now since there is notification on the status bar.

Q: My device cannot recognize my inserted external TF card.

A: Insert the TF card on the computer and then format to FAT32. Now insert it on the device.

Q: Device dial function failed.

A: There are the two possibilities:

- There is no SIM card. Please check the SIM card position.
- There is no APN. Please set the proper APN.

Q: After I inserted the SIM card, the data network cannot work. The status bar says “There is no SIM card”.

A: Insert the SIM card, and then boot up the device. Device pops “would you like to change your preferred SIM card?” See Figure 5-1. Please Tap OK button, otherwise, you cannot use current SIM card.

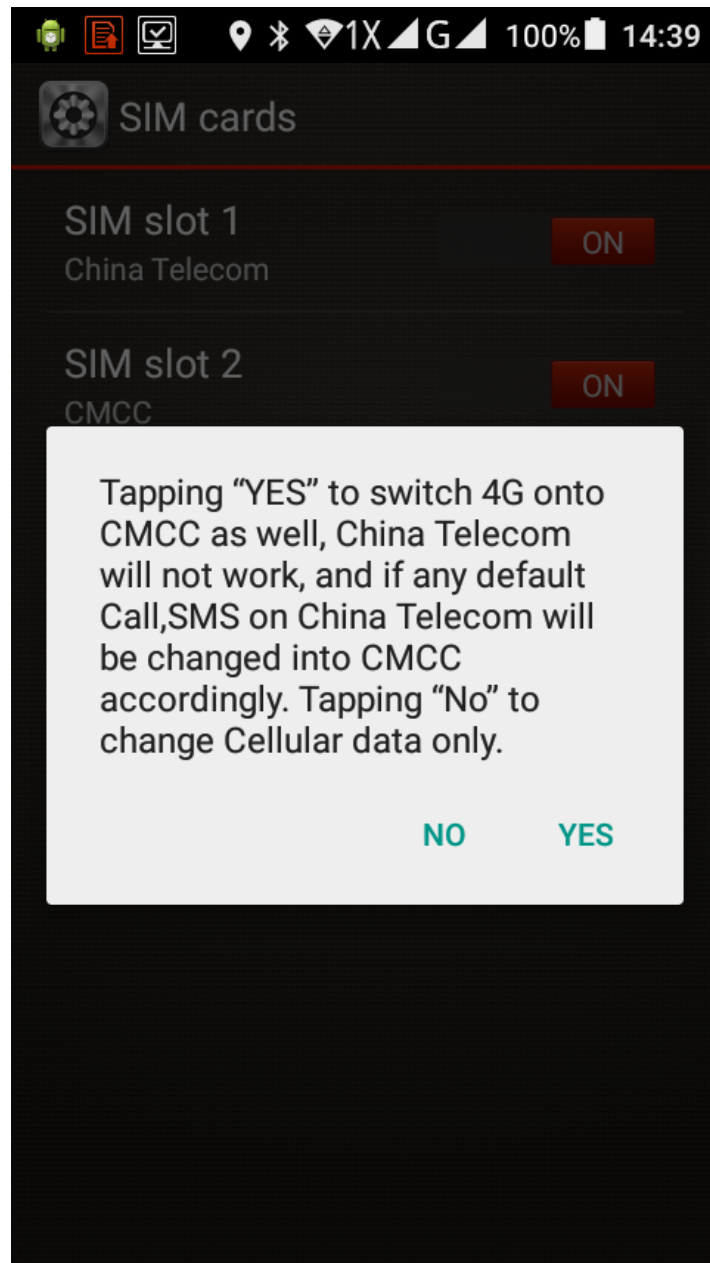


Figure 5-1

Once you tap No, please follow the steps listed below.

From Settings->Network->Data->Cellular networks.

On Cellular networks interface, tap Mobile data, select the SIM card. See Figure 5-2.

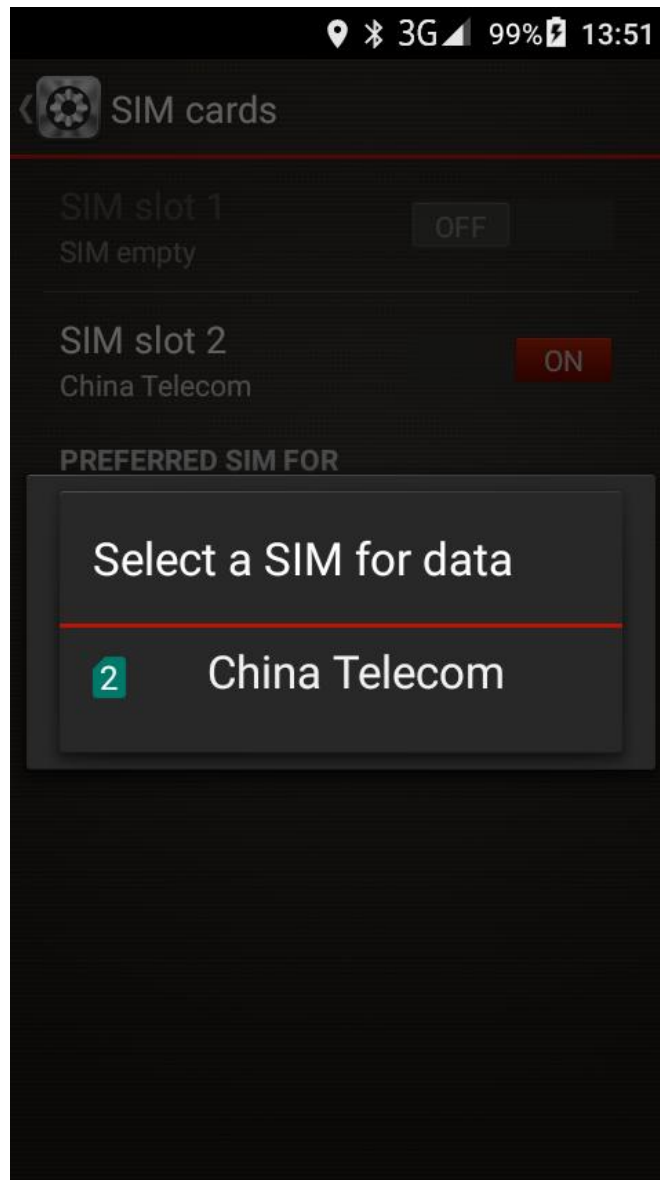


Figure 5-2

From Settings->Network, enable Datacall function.

Q: The fingerprint recognition rate is low when I want to scan fingerprint to login the device.

A: Format the fingerprints and scan again. Refer to chapter 2.8.5 Fingerprint manager for detailed information.

Platform

Q: My device has not shown as online after I set the platform information.

A: Usually, there is about one minute delay after you set the platform information. If it is still offline after you wait for a long time, please disable the platform connection and then enable again (Setting->Platform->Platform connection).

Q: How can I search the device record on the platform?

A: Please follow the steps listed below.

- Select the search record on the device (the default setup is search the record on the platform.)
- Select the device channel you want to search.
- Select date and then click Search button.
- ✧ If system pops up the dialogue box “Please set at least one channel”, please select a device channel you want to search.
- ✧ If system pops up the dialogue box “There are no results to display”. Please make sure you are searching the record on the device instead of the platform center. There is record file on the specified period.

Q: The video is not fluent when I use the real-time monitor function.

A: Please go to the Settings->Camera->Net encode->Built-in camera, you can set the video quality as WVGA (864x480), and lower the bit streams value.

Q: Device cannot connect to the platform.

A: Check the 3G/4G/Wi-Fi network connection is OK or not. Check the auto register device ID is the same as the platform setup or not. Check platform address, port setup and etc. Check platform user name and password is right or not (device default user name is **admin** and password is what you set at chapter 2.2.)

Q: The platform cannot open the audio talk function.

A: Check audio talk setup is right or not. (The sampling rate is 8K, sampling bit is 16bits, and audio format is G711a).

Q: I cannot upload the device alarm to the platform.

A: Please go to the platform to set alarm scheme. Device supports manual alarm and falling down alarm.

Q: During the audio talk process; there is too much noise on the device-end.

A: Update platform oxc controls or update client to the latest version.

Dock recharge

Q: The network cable connection is OK but I cannot recharge.

A: There are following two possibilities.

- Router or switch is not the PSE device, it does not support PoE function. Please use the default accessories to recharge.
- The device temperature is too high. Once the device temperature is higher than 50°C, device starts auto protection and stops recharge. The device auto begins recharge when the battery temperature is below 47°C. Do not let the device at full load for a long time.

Q: The red power indicator light of the recharger dock is off.

A: Please check power cable connection. Please make sure the min USB or the cable connection is right.

Q: The Ethernet port of the recharge dock cannot backup the data.

A: There are following two possibilities.

- Check network cable connection.
- Device and dock connector is not tight. Unplug and then insert again. Make sure the dock indicator light is yellow.

Q: After I use dock to recharge for a long time:

- The device cannot connect to the dock.
- The dock connection error occurred.
- The dock physical connection is OK, but there is no Ethernet connection icon.
- Cannot upload the data, the dock communication error occurred.

A: Please reboot the device or connect the dock again.

Account

Q: How can I scan the fingerprint?

A: From Account->Personal information->Password-Fingerprint, select the finger type and then follow the prompt to move the finger from top to the down several times to scan. When the process bar is full and become red, tap the OK to exit.

Q: Device cannot recognize my fingerprint, and ask me to scan again and again?

A: Keep fingers clear and neat and then scan again. Or format current fingerprints information and then scan again.

Camera

Q: After I install the camera from the third-party, why the setup is not valid (Settings->Device->Camera)?

A: The setup here is only for the device built-in device.

Q: After I restored the default setup, I changed the camera setup. But I found the setup was null after I went to the camera interface. Why?

A: After you restored the default setup, you need to go to the camera interface first and then exit. Now you can change the camera setup and then save the new settings.

Q: The camera disturbed by the environment or there is illegal operation.

A: Reboot the device.

Peripheral Camera

Q: The screen becomes black or the video is freezing when I am using the peripheral camera. The OSD time stops.

A: Check aviation port and cable connection. Stop peripheral camera work, remove the peripheral camera, and then insert again after a few minutes. Now you can use the peripheral camera again.

Q: The device occasionally is down, when I remove the peripheral camera when it is working (recording video or preview the video).

A: When the peripheral camera is working, do not remove. If you have accidentally removed the peripheral camera when it is working, please wait for about one minute to use the peripheral camera.

Q: The screen has color stripes or mosaic when I am using the peripheral camera to preview. .

A: Check aviation port and cable connection. Stop peripheral camera work, remove the peripheral camera, and then insert again after a few minutes. Now you can use the peripheral camera again.

Others

Q: I cannot recharge the device,

A: There are following two possibilities.

- Check the recharger and device connection.
- Device temperature is too high. Once the device temperature is higher than 50°C, device starts auto protection and stops recharge. The device auto begins recharge when the battery temperature is below 47°C. Do not let the device at full load for a long time.

Q: Plate recognition is wrong.

A: Make sure the light condition is good and then put the plate on the rectangle of the interface to snap.

Q: Device cannot indicate the south and north direction.

A: Hold you device and then move hand to draw “8”. It is to orientate the magnetic fields.

Q: Camera video is not clear.

A: Use clean cloth to clear the lens. Or manually focus.

Note

- **The user’s manual for reference only. Slight difference may be found in user interface.**
- **All the designs and software here are subject to change without prior written notice.**
- **All trademarks and registered trademarks mentioned are the properties of their respective owners.**
- **If there is any uncertainty or controversy, please refer to the final explanation of us.**
- **Please visit our website for more information.**