iData®

# User Manual

## iData 95

www.idatachina.com

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# 1 Introduction

## 1.1 Appearance of iData 95

Figure 1-1 Front view of iData 95

Figure 1-2 Rear view of iData 95

## 1.2 Installing an SD Card

To install an SD card, do as follows:

1. Push the card cover along the direction marked on the cover and open the cover.
2. Insert an SD card.
3. Press the SD card downward and lock the card along the IN direction marked on the cover.

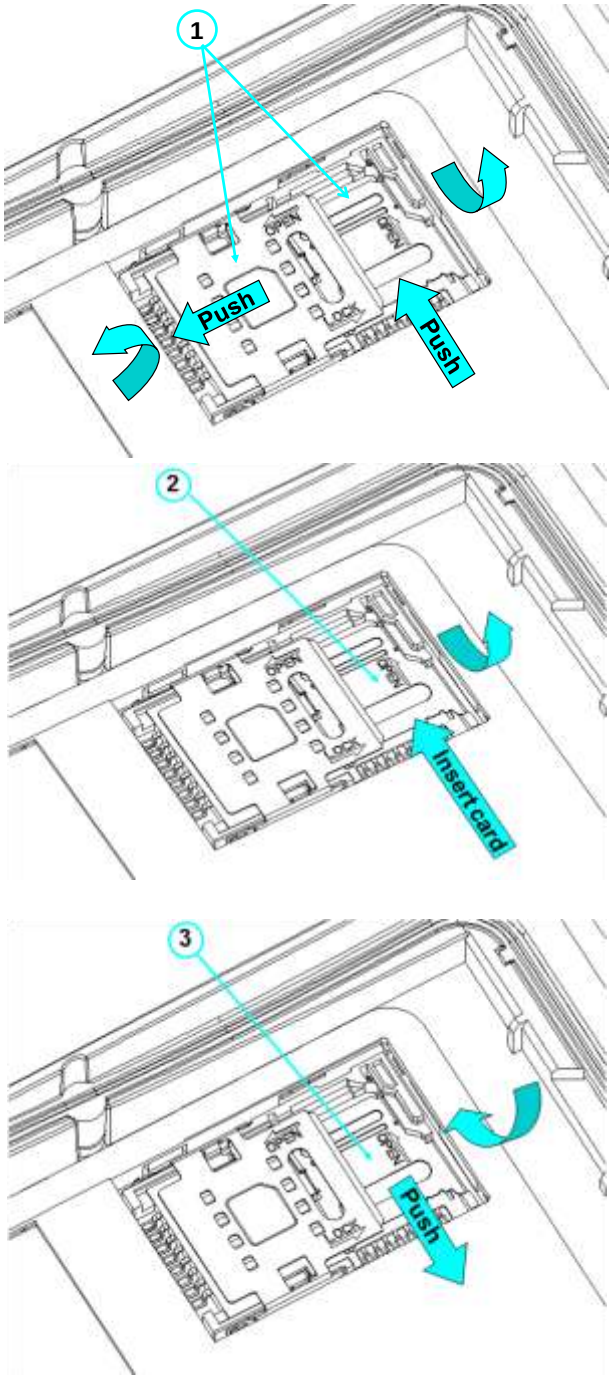



Figure 1-3 Inserting an SD card

## 1.3 Installing a SIM Card

To install a SIM card, do as follows:

1. Insert a SIM card along the direction, as shown in Figure 1-4.
2. Press the card cover downward.
3. Push the SIM card along the LOCK direction to lock the card cover.

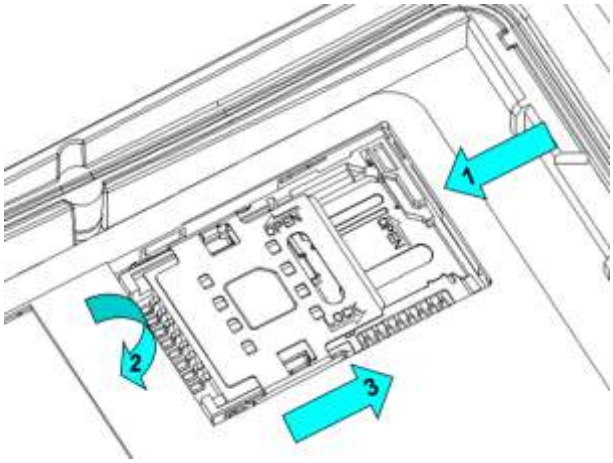



Figure 1-4 Inserting a SIM card

## 1.4 Installing a Battery

To install a battery, do as follows:

1. Push the battery to the bottom of the battery compartment.
2. Press the top of the battery downward to tighten the battery.
3. Push the joint at the bottom of the battery cover into the back shell.
4. Push the lock to the left and press the battery cover downward until the lock automatically returns to the location on the right.

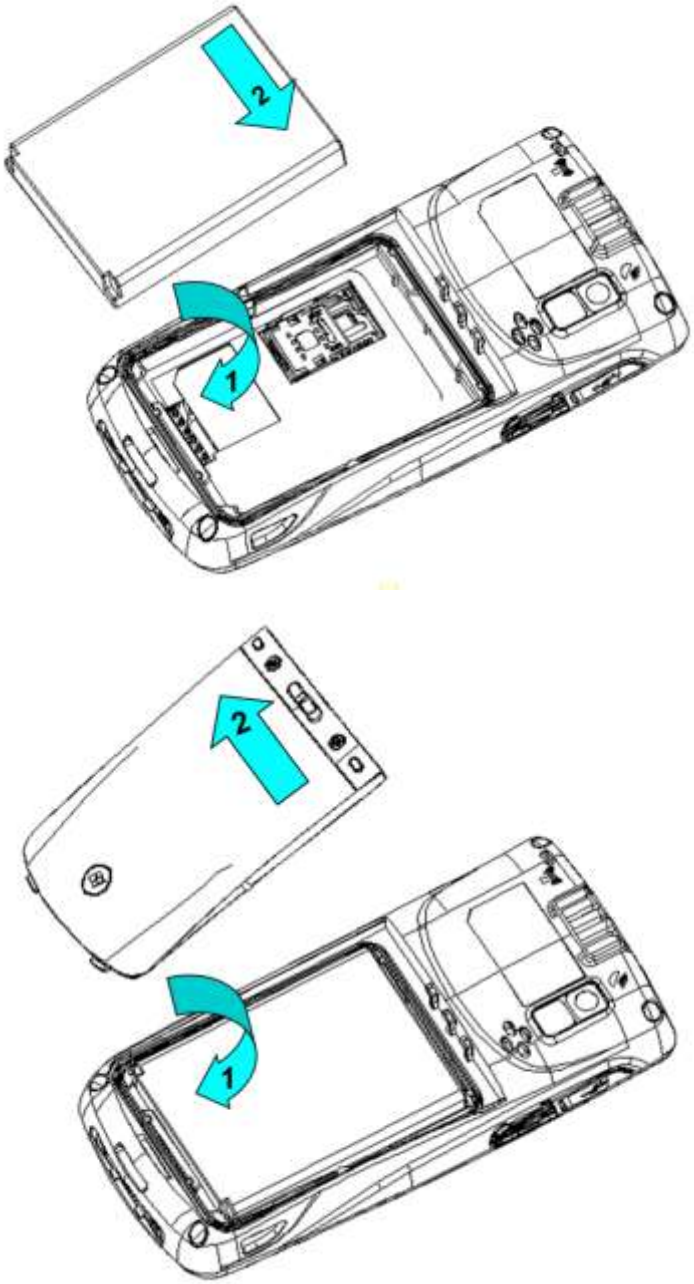



Figure 1-5 Installing a battery

## 1.5 Disassembling the Battery Cover

To disassemble the battery cover, do as follows:

1. Insert your left forefinger into the upper left part of the battery cover and push the lock to the left by using the thumb.
2. Pull out the battery cover.

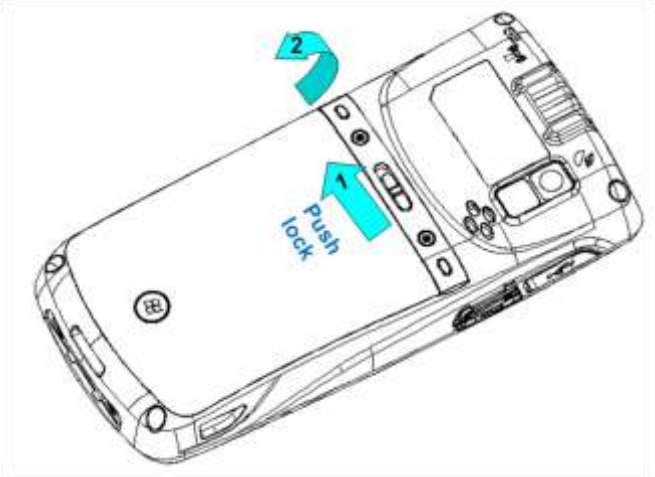



Figure 1-6 Disassembling the battery cover

## 1.6 Charging

You can charge the iData 95 in the following ways:
1. Charge the iData 95 by using a charger.
2. Connect the iData 95 to a PC by using a USB cable to charge the iData 95.
In the charging status, the LED is red. When the LED becomes blue, charging is complete.
When the battery volume is insufficient, the iData 95 displays alarm information.
When the battery volume is too low, the iData 95 is automatically powered off.

★ Caution

The battery can be charged for more than or less than three hours. The battery will not be damaged if charging is interrupted. The duration of the battery depends on different applications of the iData 95, for example, selected functions of iData 95, usage mode, and data transmission.

★ Tips

To ensure a longer standby time of the iData 95, follow the following tips:

- Always connect the iData 95 to the AC power supply when you do not use it.
- In settings, set the time to sleep to a smaller value for the iData 95 by selecting **Home** > **Applications** > **Settings** > **Display** > **Screen Delay**.
- Stop all wireless activities when you do not use the iData 95.

# 2 Instructions on the iData 95

## 2.1 Power-on and Power-off

After installing a SIM card and a battery and fully charging the iData 95, you can use the iData 95.

1. To power on the iData 95, press and hold the On/Off key for some time. The power-on page is displayed. After the guiding progress is complete, the iData 95 enters the Android system. It takes some time to initialize the iData 95. Please wait patiently.
2. To power off the iData 95, press and hold the On/Off key for some time. After a dialog box for powering off the iData 95 is displayed, click **Power Off**.

## 2.2 Locking and Unlocking the iData 95

**Locking iData 95**

Press and hold the On/Off key for a short time to lock the iData 95. If you do not perform any operation within the default and preset time to lock the iData 95, the iData 95 is locked automatically.

**Unlocking the iData 95**

Press and hold the On/Off key for a short time and slide the unlock key on the screen to the right to unlock the iData 95.

## 2.3 Keys of iData 95

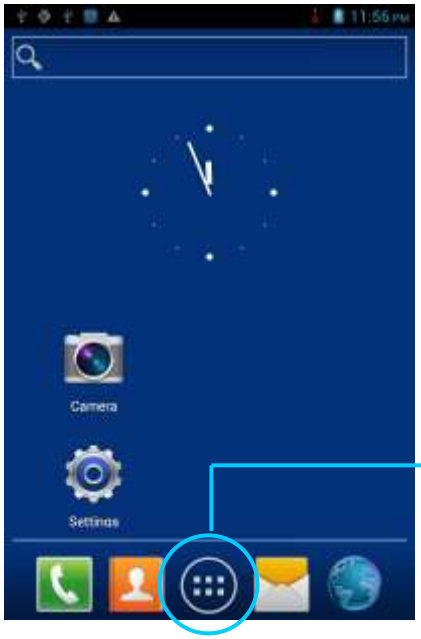
The iData 95 provides a physical keypad that has 22 keys, as shown in the following figure. Keys are divided into function keys, numeric keys, symbolic keys, and scan keys.

On the physical keypad of the iData 95, the left and right function keys and the yellow scan key correspond respectively to the menu key, return key and scan key.

Scan key: Used to scan data.
Return key: Used to return to the previous operation page.
Menu key: Used to display a menu.

## 2.4 Home

The iData 95 has five home pages. Slide to the left or right to switch among the pages. Click any application on the home page to start the application.




★ Tips

- You can add application icons in blank space of the home page.
- Click the application tray to view all applications.

## 2.5 Status Icons and Indicators

Status icons and indicators are in the status bar in the upper part of the screen and show device status and notifications.

Table 2-1 Status icons

| Icon | Description | Icon | Description |
|---|---|---|---|
| | WLAN | | Signal strength |
| | EDGE | | Offline mode |
| | USB connection | | Internet access restricted |
| | Missed calls | | USB debug |

| Icon | Description | Icon | Description |
|---|---|---|---|
| | New messages | | Charging |
| | Modem logs | | Full power |
| | Mute mode | | There are multiple notification icons, which are beyond the scope of display. |
| | Connect to Pea | | |

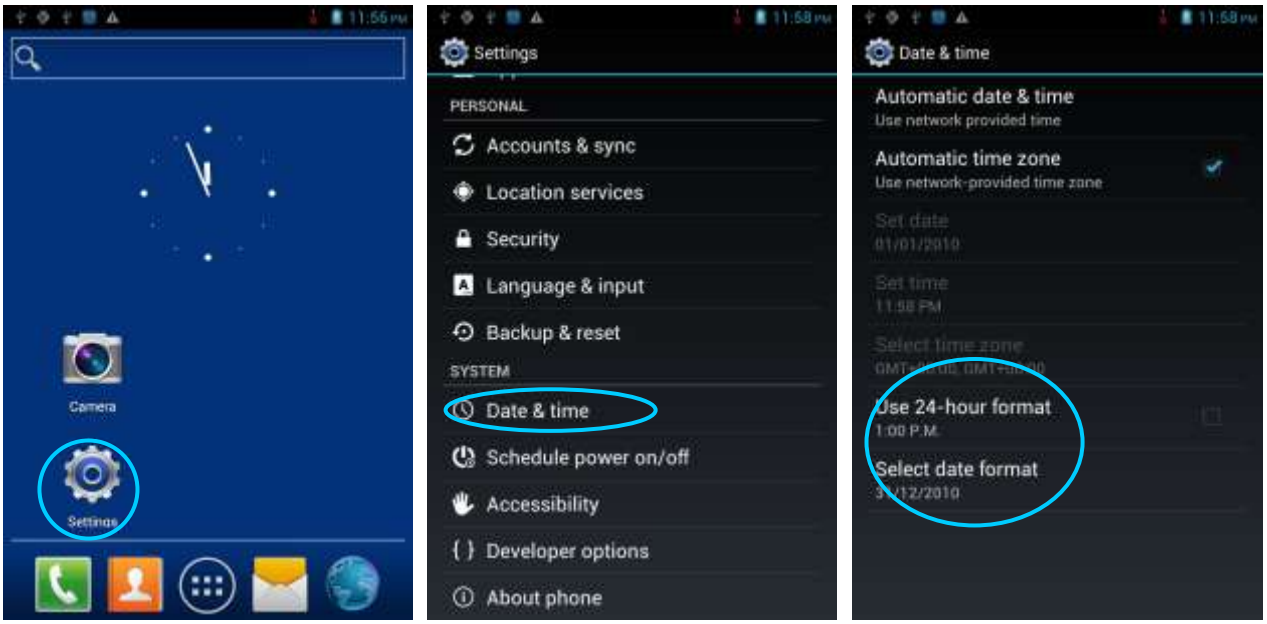
★ Note

The applications of the iData 95 are often upgraded. Therefore, the status icons may be different from those on the iData 95. The actual status icons prevail.

## 2.6 Basic Settings

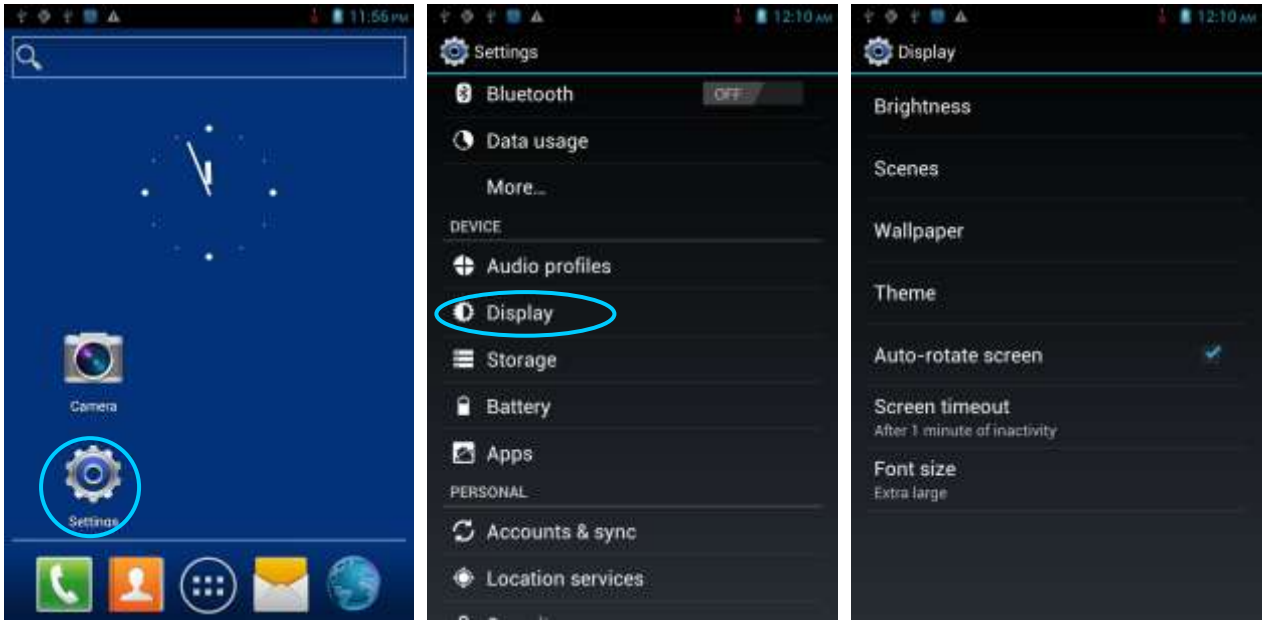
### 2.6.1 Date and Time Setting

To change the date and time in the iData 95, do as follows:
Select **Settings** > **Date & time** and click **Set Date** or **Set time**.



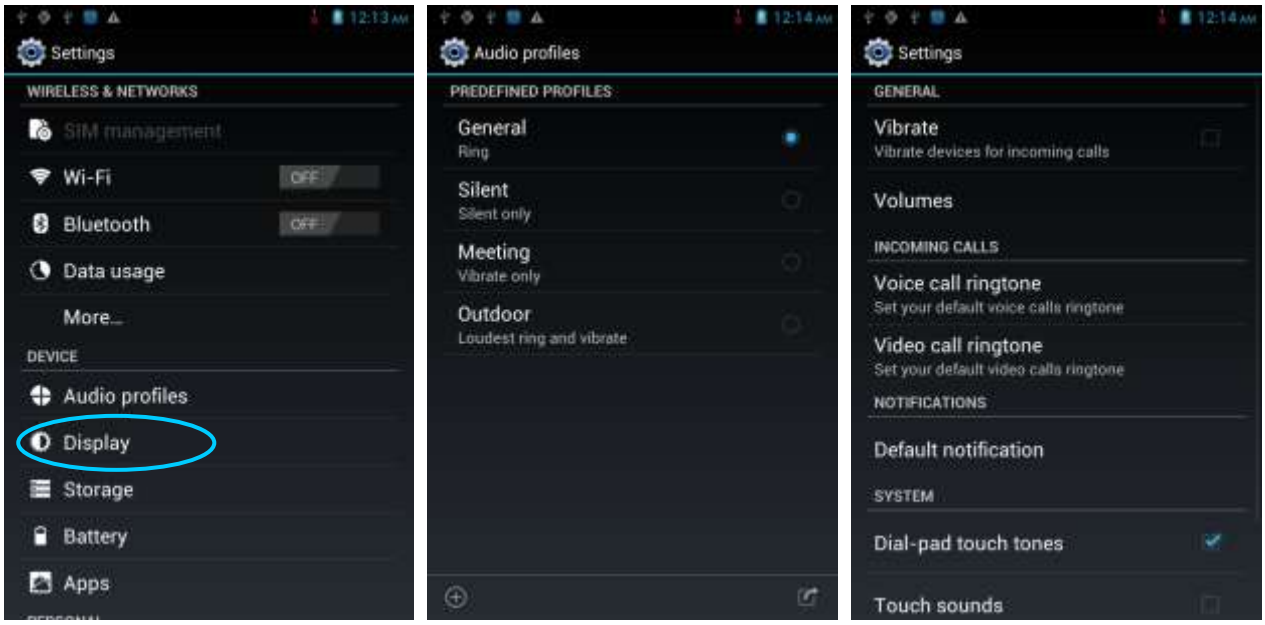
## 2.6.2 Display Settings

Find the following icon:
Select **Settings** > **Display** and set display options such as **Brightness**, **Wallpaper**, **Auto-rotate screen**, and **Font size**.




## 2.6.3 Ringtone Setting

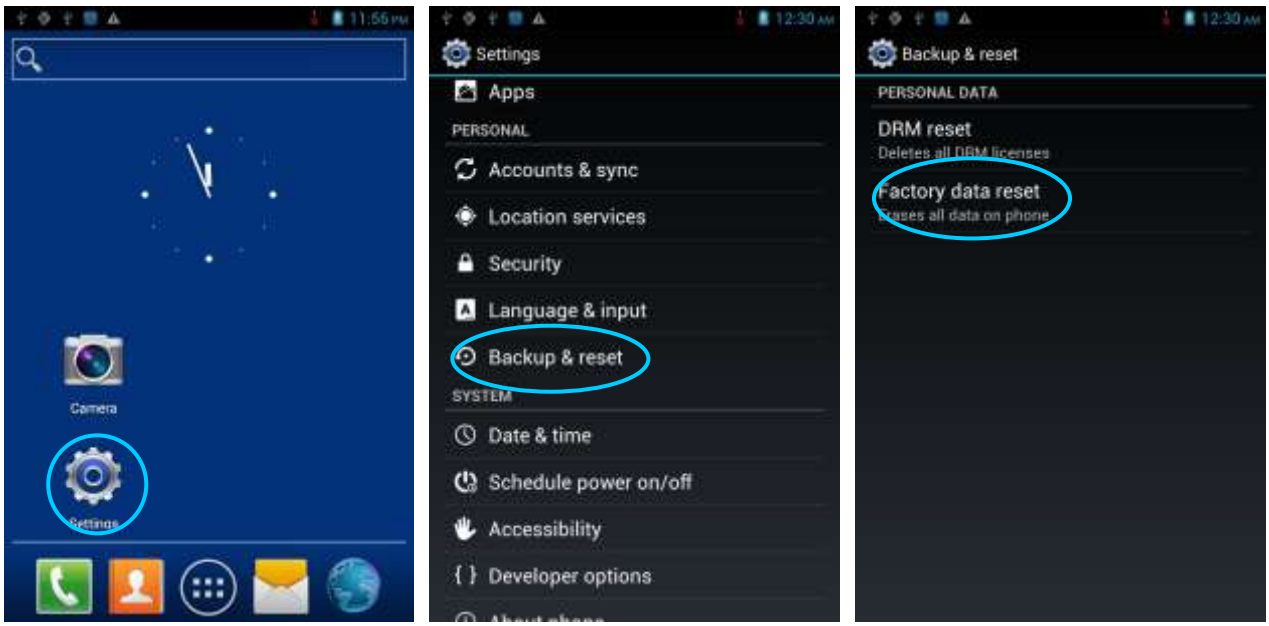
Select **Settings** > **Audio Profiles** and click **General**/**Silent**/**Meeting**/**Outdoor** to set the ringtone in the corresponding mode.



## 2.6.4 Security Setting

Select **Settings** > **Reset** > **Factory date reset**.

Click **Clear all**. The iData 95 starts to restore the factory settings.




★ Caution

This operation will clear the following data in the iData 95:

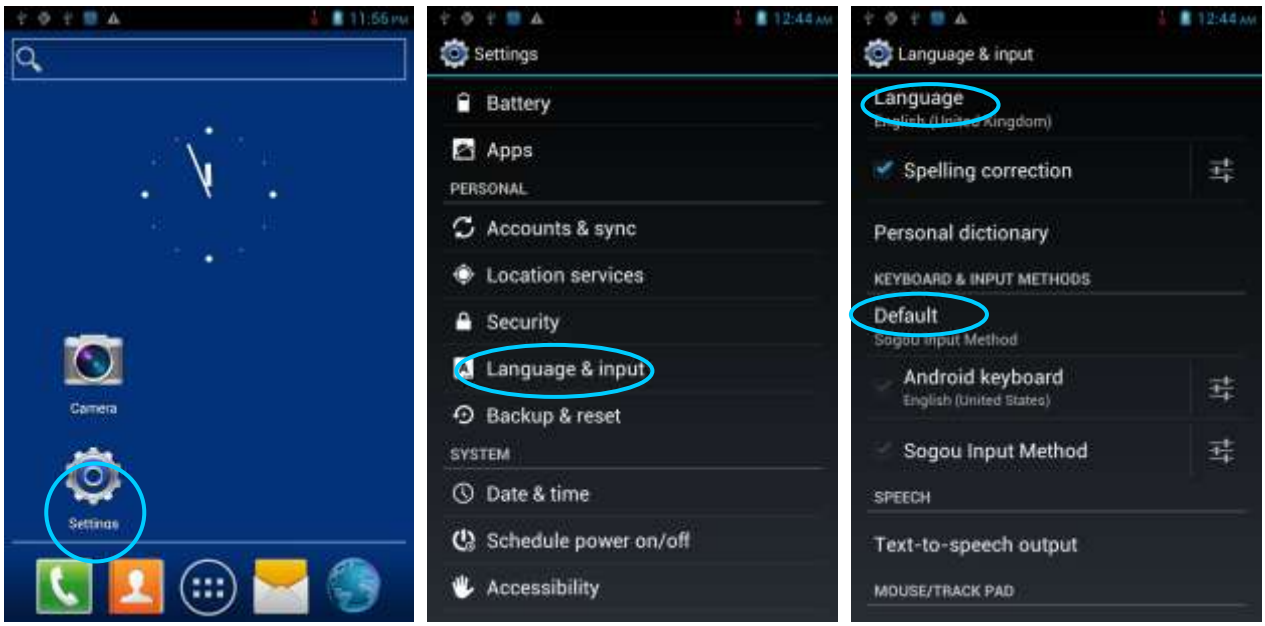
- Account
- Data and settings of the system and applications
- Downloaded applications

This operation does not clear the following data:

- Current system software and bound applications
- Files in the SD card, for example, music and pictures

## 2.6.5 Language and Input Setting

Select **Settings** > **Language and input**. In the displayed list, select the desired language. Click **Default** and select the desired input in the list.




## 2.6.6 Shortcuts

You can add shortcut icons on the home page of the iData 95.

On the home page, click the application tray icon, select and drag the icon to be added to the home page.

## 2.6.7 Widgets

You can add widgets such as clock, music player, and calendar on the home page of the iData 95.

On the home page, click the application tray icon, slide the screen to the widget page, select and drag the widget to be added to the home page.

Click the icon of the widget to open the widget.

# 3 Call Function

## 3.1 Making a Call

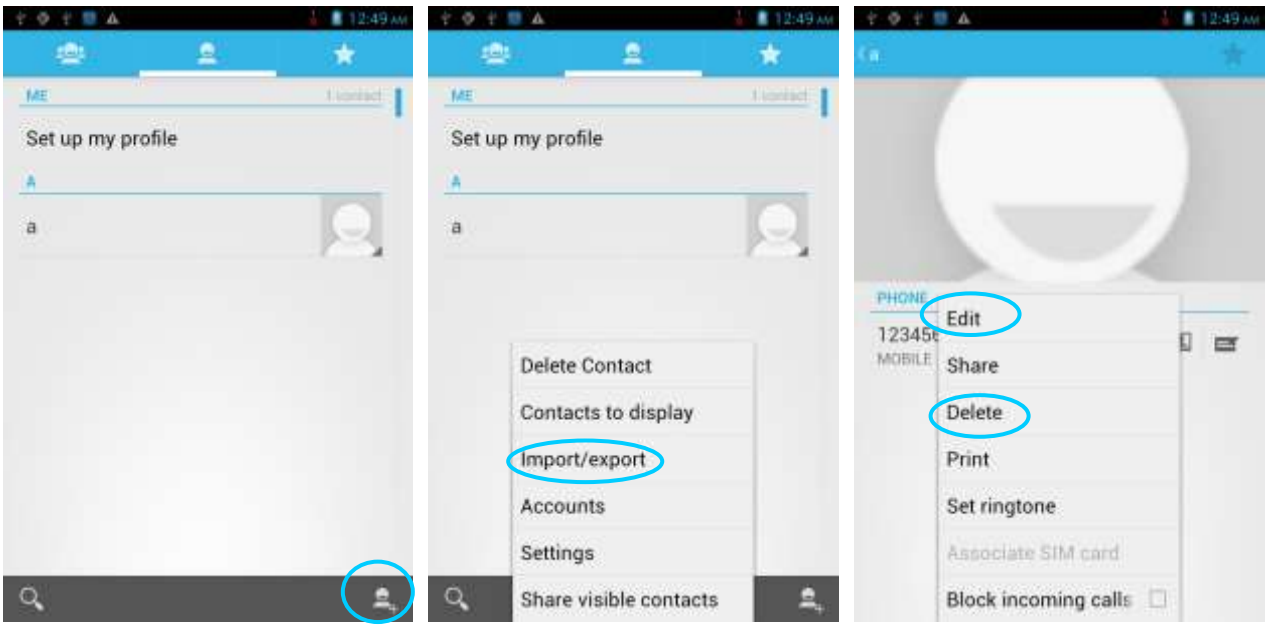
Find the following icon:

1. Enter a telephone number by pressing number keys.
2. Click .
3. Click to terminate the call.

## 3.2 Contacts

Find the following icon:

1. Click **Contacts** to open the contact list.
2. To add a contact, click .
3. To import or export contacts, press the menu key to open the menu and click **Import/export**.
4. To edit or delete a contact, select a contact, press the menu key to open the menu and click **Edit** or **Delete**.



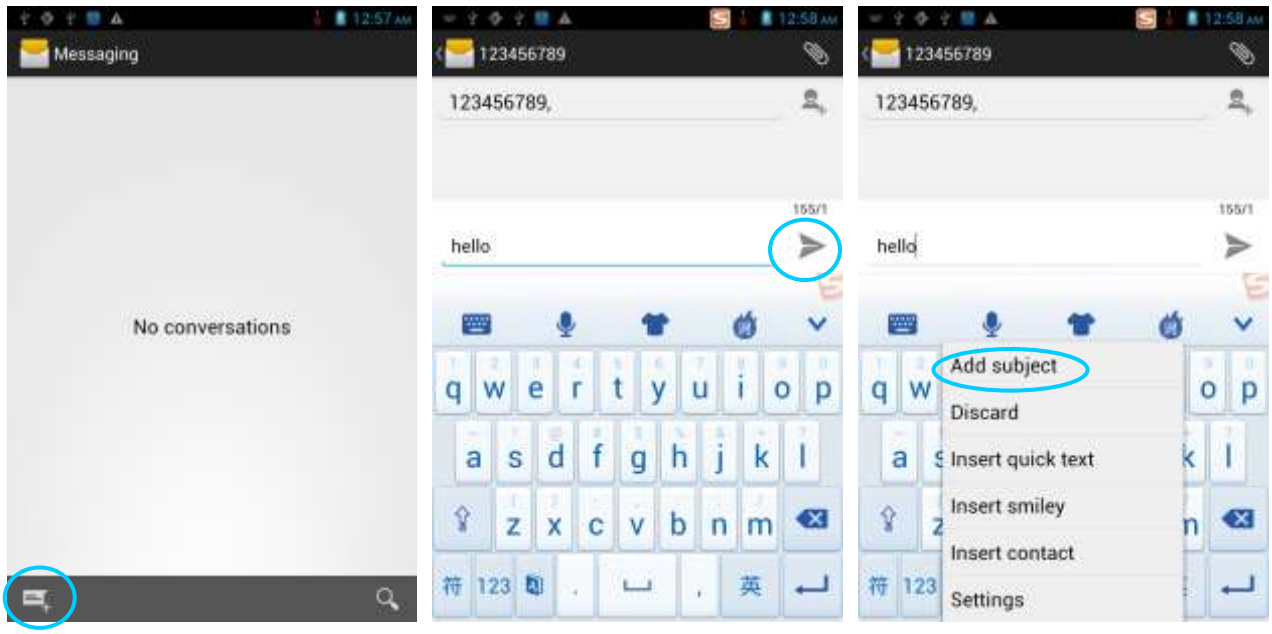

## 3.3 SMS and MMS

Find the following icon:

1. Click and enter the message recipient and the text to be sent.
2. Click to send the message.
3. On the message editing page, press the menu key to open the menu and click **Add Subject**. Convert the message to be sent into a multimedia message and click .

★ Tips

Click to add attachments such as picture, video, and audio files.




## 3.4 Email

You can send or receive emails.

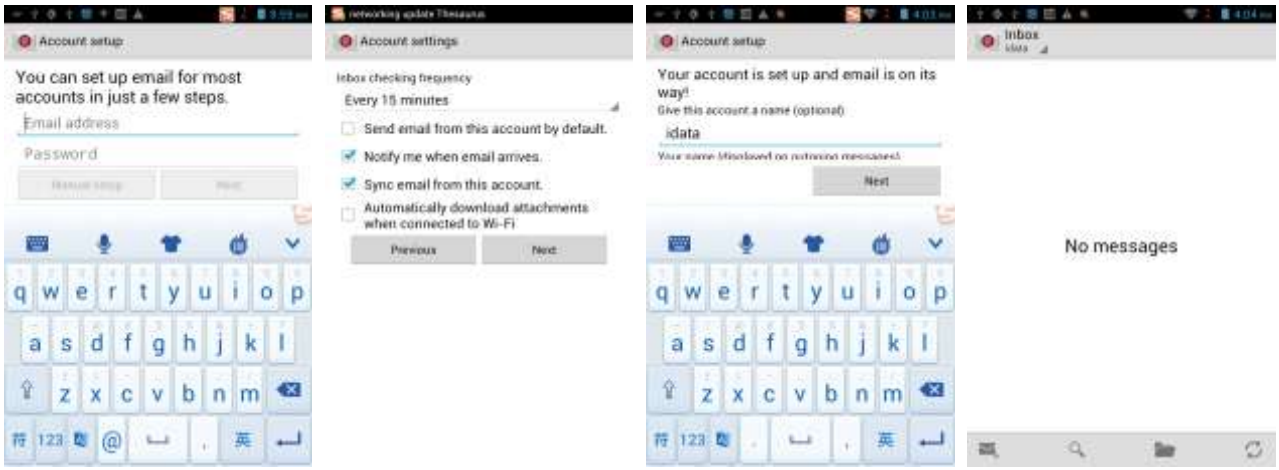
★ Note

To create an email account on the iData 95, you need to set the account on a PC. For example, to create a QQ email account, log in to the QQ mailbox, click **Settings** in the upper right corner of the mailbox to access the account options. Find the server options and email receiving options, select all, and click **Save**.

To set a mailbox on the iData 95, do as follows:

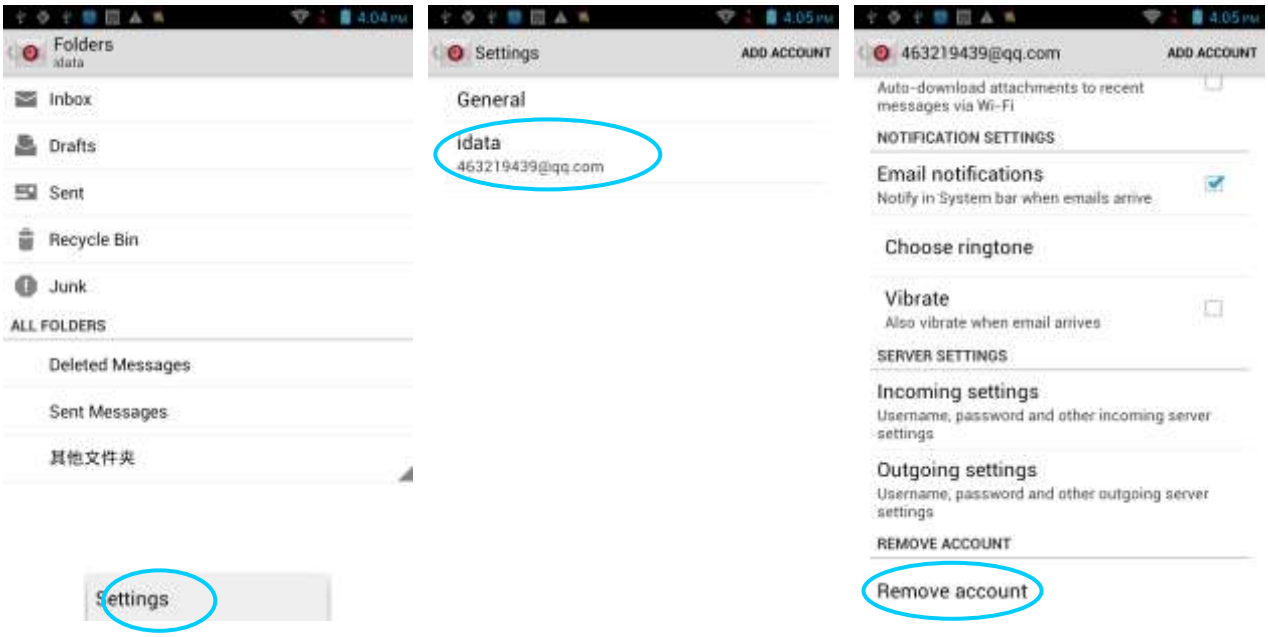
Find the following icon:

1. Enter the email address and password and click **Next**. The system starts to connect the email account.
2. Set **Inbox checking frequency** and click **Next**.
3. Create a name for this account and click **Next**. The **Inbox** page is displayed.




To delete an account, do as follows:

1. On the mailbox page, press the menu key and click **Settings**.
2. Click the email account to be deleted and access the setting page.
3. Click **Remove account**.

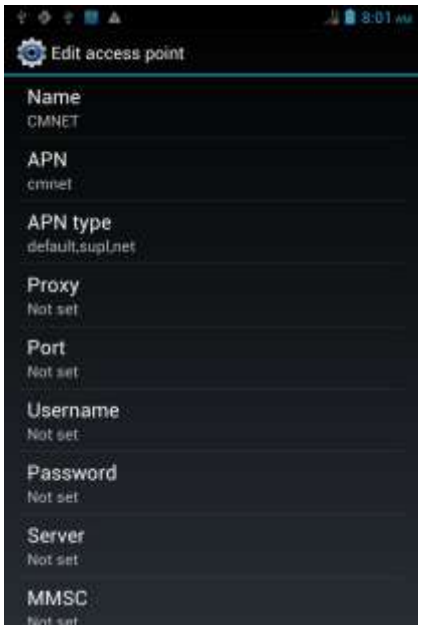


# 4. Network and Connection Synchronization

## 4.1 GPRS Data Connection

After a GPRS data connection is established, you can access the Internet. To establish a GPRS data connection, ensure that a SIM card is installed in the iData 95. Generally, the iData 95 has configured Internet access. If you delete the default configuration by mistake, set the network as follows (assume that China Mobile's network is used):

Select **Settings** > **More** > **Wireless & networks** > **APN** > **CMNET** and set the following options as follows:

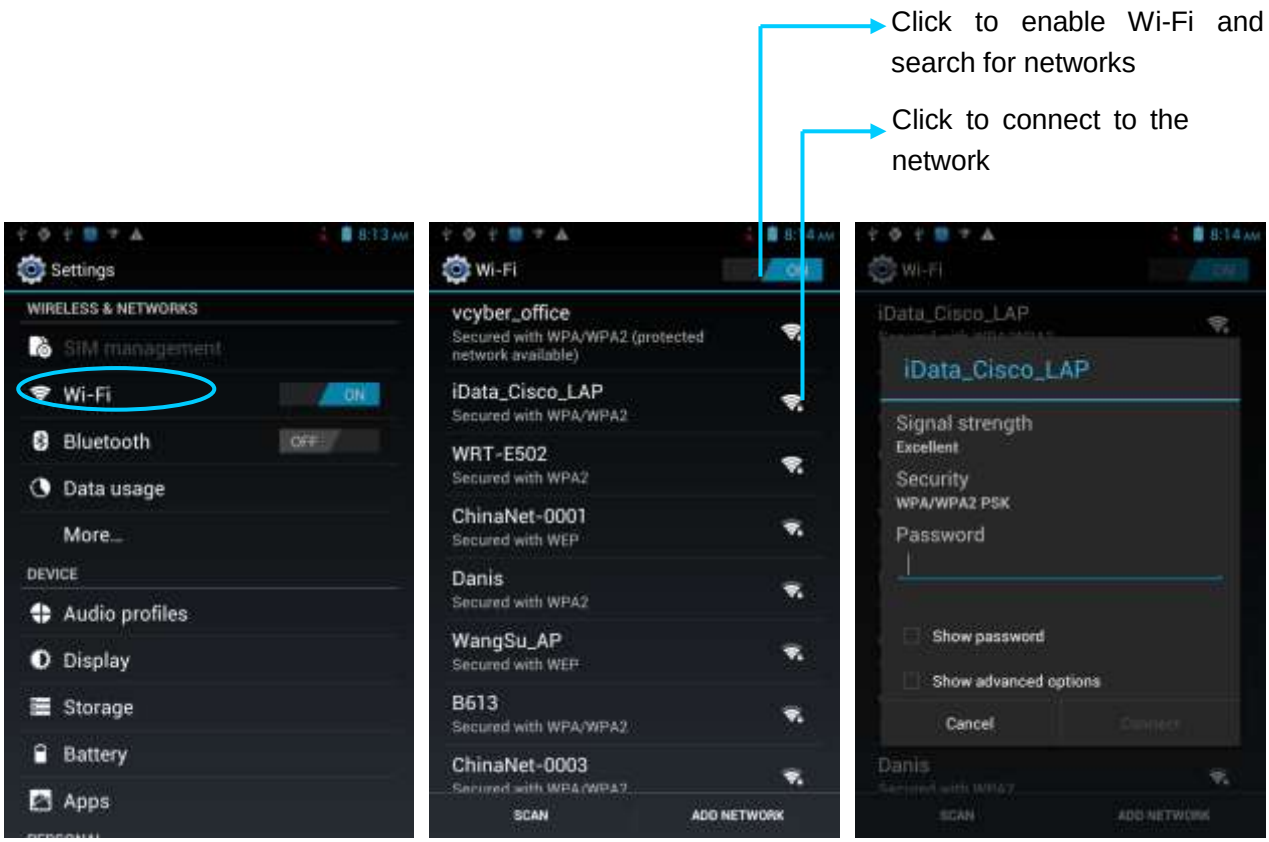



Name: CMNET
APN: cmnet
APN type: default,supl,net
Proxy: null
Port: null
User name: null
Password: null
Server: null
MMSC: null
MMS proxy: null
MMS port: null
MCC: 460
MNC: 02
Identity authentication type: null
APN protocol: IPv4
Enable/disable APN: APN enabled
Bearer system: null

## 4.2 Wi-Fi Network Connection

Select **Settings** > **Wireless & networks** > **WLAN**.

1. Click On for Wi-Fi. The system starts to search for the network. If the WLAN is enabled, click **Scan**. The iData 95 list the searched networks.
2. Click the network to be connected and enter the password in the displayed dialog box.
3. Click Connect to complete the Wi-Fi connection.



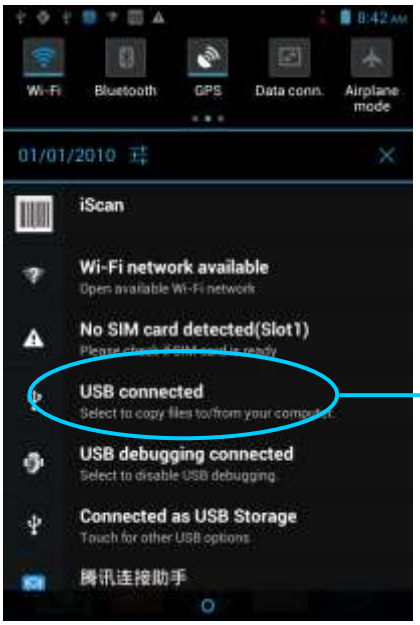

## 4.3 GPS

The iData 95 is equipped with a high-performance navigation chip and can obtain position information quickly and accurately. The manufacturer of the iData 95, Wuxi iData Technology Company Ltd., provides GPS Test, which is a GPS demonstration program. Before using the GPS, install GPS Test. You can download GPS software (for the information related to GPS software and HiMarket, see relevant description in 6.1 Installing Software) from HiMarket and view position information.

## 4.4 Connecting iData 95 to a Computer

Connect the iData 95 to a computer by using a USB cable so that files in the memory card, for example, pictures, videos, and music, can be transferred to the computer and processed in the computer.

1. Connect the iData 95 to a USB port of a computer by using the USB cable.
2. The icon of USB connection is displayed in the status bar of the iData 95. Slide the status bar, you can see **USB connected** and select the USB connection mode.

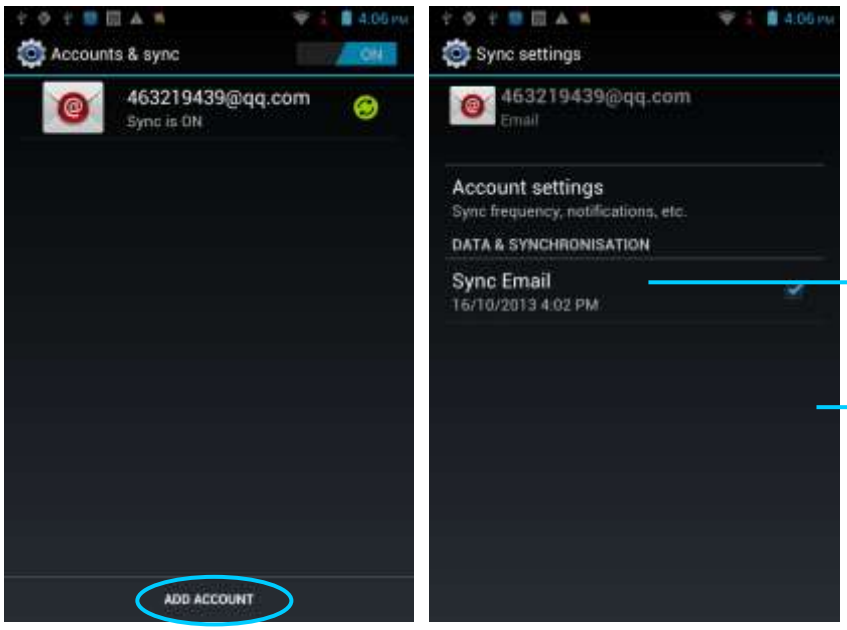



Click the option to open the USB storage device and copy files between a computer and the iData 95.

## 4.5 Synchronization

Select **Settings** > **Accounts & sync**.

1. Click **ADD ACCOUNT** to set a new account.
2. Click **Company** or **Email**, enter the email address and password, and click **Next**. Wait until the connection is completed (for details about mailbox settings, see section 3.4 Email).
3. Click **Accounts & sync**. On the **Accounts & sync setting**s page, set the account as required.




Set email synchronization frequency, notification, etc.

Select the option to synchronize emails.

# 5. Introduction to iScan of the iData 95

## 5.1 Installing and Using iScan

To collect data, you must install and start the scan application on the iData 95. At present, Wuxi iData Technology Company Ltd. provides the scan demonstration software, iScan, for example to obtain and decode barcode information.

First of all, install iScan on the iData 95 (for details on how to install iScan, see 6.1 Installing Software). After iScan is installed, the iScan icon is displayed on the application page. Click the icon to start the software (by default, **Barcode Scan** is selected). In this case, you can scan barcodes.

# 6 Managing iData 95

## 6.1 Installing Software

The iData 95 uses Google's Android platform whose suffix is apk. To install software on the iData 95, use the following methods:

1. Download and install software through the online software store provided by Google (Google Play) or Android software download platform (HiMarket) used in China. HiMarket is recommended.
2. Download software installation packages, store them on the SD card, and install the software by using file manager.
3. Connect the iData 95 to a computer by using the USB cable and install software on the computer. First of all, install software such as APK installer, pea, or 91 mobile assistant on the computer so that software can be installed in batches.

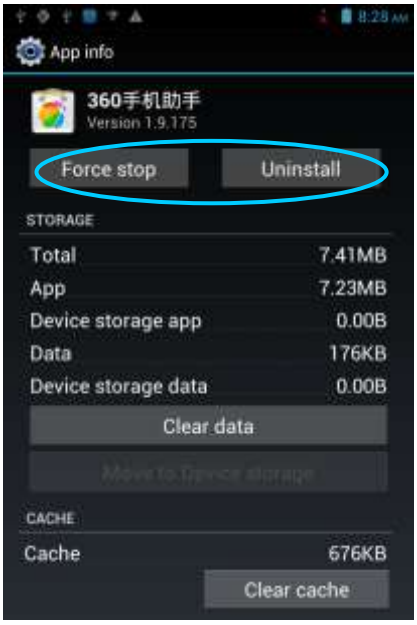
## 6.2 Uninstalling Programs

If too many programs are installed or some installed programs are unnecessary, uninstall existing programs to increase the operation speed of the iData 95. To uninstall software, use the following methods:

1. Select **Settings** > **Applications**. In the displayed application list, select the software to be uninstalled and click the software. On the **App info** page, click **Uninstall** and click **OK**. Several seconds later, the system prompts that the software is uninstalled.
2. Click the application tray. On the application page, find the icon of the software to be uninstalled and click the icon.

## 6.3 Managing Applications

Press the menu key (yellow scan key) and click **Manage apps**. You can view the status of download applications, applications in the SD card, and running applications and click any application to access the application information page where you can stop, uninstall, or suspend the application.



# 7 Precautions and Troubleshooting

## 7.1 Precautions for iData 95

**To ensure that the iData 95 does not fail, follow the following precautions during use of the iData 95:**

- Put the iData 95 and its components and accessories in the places where children cannot reach.
- Keep the iData 95 dry. Rain, moisture and liquid contain acidic materials and will corrode the circuit board.
- Do not store or use the iData 95 in dusty or dirty places.
- Do not store the iData 95 in a place that is too hot. High temperature will shorten the service life of electronic components.
- Do not store the iData 95 in a place that is too cold. When the temperature inside the iData 95 rises, moisture is generated inside the iData 95, which may damage the circuit board.
- Do not try to disassemble the iData 95. Otherwise, the iData 95 may be damaged.
- Do not touch the screen surface of the iData 95 by using a pen, a pencil or other sharp articles in case the screen may be scratched.
- Do not throw, beat or violently collide the iData 95. Otherwise, the components of the iData 95 may be damaged and the iData 95 may be faulty.
- Do not use strong chemical products or strong detergent to clean the iData 95. If the iData 95 become dirty, clean the surface of the iData 95 by using a soft cloth soaked with dilute glass detergent.
- Please use the protective film to reduce wear as much as possible. The screen protective film can improve the availability and durability of the screen.

**Pay attention to the following during use of the battery.**

- The area where the iData 95 is charged must keep away from scraps, inflammables or chemical substances.
- When you charge the battery of a mobile device, the temperature on the battery and charger must be in the range 0°C to 40°C.
- Do not use incompatible batteries or chargers, which may cause fire, explosion, leakage or other hazards.
- Do not disassemble, press, twist, pierce or cut the battery.
- Do not make the battery short-circuited or contact the connecting terminal of the battery by using metal or other conductive objects.
- Do not insert other materials into the battery, contact the battery with water or other liquid, or expose the battery in an open fire, explosive source or other sources of danger.
- Do not put or store the battery in the environment where the temperature is too high.
- Do not put the battery in a microwave oven or a drying machine.

- Do not put the battery into a fire.
- If the battery leaks, do not let the liquid stain your skin or eyes. Otherwise, wash your skin or eyes with lots of water and go to see the doctor immediately.

**Cleaning the iData 95**

- Shell

  Clean the shell by using a cloth soaked with alcohol, including keys and space between keys.

- Display

  You can clean the display screen by using a cloth soaked with alcohol. Do not let the liquid gather around the screen. Otherwise, dry the screen by using a soft non-woven cloth in case strip marks are left on the screen.

- Scan lens

  Clean the scan lens regularly by using lens paper or other articles suitable for cleaning optical materials.

## 7.2 Troubleshooting

Table 7-1 iData 95 troubleshooting

| Fault | Cause | Solution |
|---|---|---|
| After the power key is pressed, the iData 95 is not powered on. | The battery volume is too low or the battery is not charged. | Charge the iData 95 or replace the battery. |
| | The battery is incorrectly installed. | Correctly install the battery. |
| | The system breaks down. | Restore factory settings. |
| Battery charging fails. | The battery fails. | Replace the battery. |
| | The temperature of the battery is too high or low. | Put the battery in normal temperature. |
| During data communication, data is not transmitted or transmitted data is incomplete. | The cable configuration is incorrect. | Consult the system administrator. |
| | The communication software is incorrectly installed or configured. | Install or reinstall the ActiveSync software to update the driver. |
| The relevant function is not activated after a user clicks a button or icon. | The system does not respond. | Restart the system. |
| No sound can be heard. | The volume is too low or is disabled. | Adjust the volume. |
| The iData 95 is closed. | The iData 95 is in the inactive state. | After being inactive for a period of time, the iData 95 is closed. |
| | The battery is used up. | Replace the battery. |
| The iData 95 responds | Too many files are stored in | Remove unused memos and records. If |

| Fault | Cause | Solution |
|---|---|---|
| at a low speed. | the iData 95. | necessary, save the records on the host or increase the storage capacity by using an SD card. |
| | Too many applications are installed on the iData 95. | Remove applications installed on the iData 95. |
| The iData 95 does not decode barcodes. | The scan application is not loaded. | Load iScan in the iData 95. |
| | Reading a barcode fails. | Check that the barcode is defective. |
| | The battery volume is low. | If the scanner stops sending out laser beam after you turn on the switch, check the battery volume. |

Table 7-2 Cable troubleshooting

| Fault | Cause | Solution |
|---|---|---|
| Charging fails. | The cable is in poor contact. | Replace the cable. |
| The synchronization software cannot be connected. | The cable is in poor contact. | Replace the cable. |

Table 7-3 Wi-Fi connection troubleshooting

| Fault | Cause | Solution |
|---|---|---|
| An AP cannot be connected. | “Authentication fails” is displayed. | The password of the WLAN device is incorrect. |

# Appendix

Table 1 Accessories of iData 95

| Component | Description |
|---|---|
| iData 95 | |
| Standard battery | |
| Power adapter | Used to charge the battery. |
| Straps | |
| Hand strap | |
| Package | |
| USB data cable | Used to communicate with the host or charge the iData 95. |
| Instructions | |
| Warranty card | |
| 1-slot USB charger base | Optional |
| 4-slot charger | Optional |
| Silicone case | Optional |
| Smart pen | Optional |
| Bottom charging cable | Optional |

Table 2 Technical specifications of iData 95

| Item | iData 95W | iData 95E |
|---|---|---|
| **System configuration** | | |
| Processor | 1 GHz high-performance dual-core ARM Cortex-A9 processor | 1.2 GHz high-performance dual-core ARM Cortex-A5 processor |
| Operating system | Android 4.0 | Android 4.0 |
| Memory | 4GB ROM + 1GB RAM | 4GB ROM + 512MB RAM |
| Extended slot | Mini SD card (up to 32 GB is supported) | |
| Display | Optional 3.5-inch RETINA screen, high resolution (640 x 960) | |
| Touch panel | Industrial-grade capacitive touch panel (supporting gloves-based touch) | |
| Camera (optional) | 5M pixel, auto-focus, LED lighting | |
| Exit window | Corning® Gorilla® glass | |
| Keypad | Wearproof industrial keypad with internal transmittance | |
| Main battery | 3.7V 4000 mAh lithium battery (6000 mAh battery optional) | |
| Audio | Built-in microphone | |
| Notification | Vibration prompt/LED prompt/audio prompt | |
| Vibration motor | Built-in programmable vibration motor | |

| Item | iData 95W | iData 95E |
|---|---|---|
| Sensor | G-Sensor | |
| **Operating environment** | | |
| Development tool | Android SDK+JDK+Eclipse | |
| Supported language | Java, C | |
| Management tool | iData Tools | |
| Operating temperature | -10°C–50°C | |
| **Operating environment** | | |
| Storage temperature | -20°C–60°C | |
| Humidity | 0%–95% (non-condensing) | |
| Drop specification | 1.5-meter drop on cement floor | |
| Tumble specification | 500 0.5-meter tumbles (1000 hits) | |
| Sealing | IP65 | |
| Electrostatic discharge | ± 15 kV air discharge, ± 8 kV direct discharge | |
| **Structural Parameters** | | |
| Dimensions (LxWxD) | 152 mm x 68 mm x 24 mm | |
| Weight | 255 g (standard battery included) | |
| **Communication Transmission** | | |
| Wireless voice communication | 2G: GSM 850/900/1800/1900MHz<br>3G: WCDMA 850/2100MHz | 2G: GSM 850/900/1800/1900MHz<br>3G: CDMA 800/1900MHz |
| Wireless WAN | GPRS/EDGE/WCDMA | EVDO/EDGE /GPRS |
| WLAN | Wi-Fi 802.11b/g/n | |
| GPS | High-performance GPS chip | |
| **Input/Input Interface** | | |
| USB port | 1 (Micro USB port) | |
| Charger port | 1 (DC port) | |
| RS232 port | 1 | |
| **Data Collection Specification** | | |
| **1D Laser Scanner** | | |
| Optical resolution | ≥ 4 mil | |
| Scan depth of field | 3.81 cm–60.98 cm | |

| Item | iData 95W | iData 95E |
|---|---|---|
| Scan angle | 47°±3° (standard) | |
| Scan speed | 102 ± 12 scans/sec. (Bidirectional) | |
| **1D Linear Imager** | | |
| Reading mode | CCD | |
| Reading accuracy | ≥ 4 mil | |
| Decoding speed | Up to 300 scans/sec. | |
| **2D Area Imager** | | |
| Optical resolution | ≥ 3 mil | |
| Scan angle | Omnidirectional | |
| Scan speed | 300 scans/sec. | |
| **Infrared Communication Module** | | |
| Built-in infrared communication module | Structure with two emitting tubes, meter reading distance of up to 5 meters, fully supporting DL/T645 protocol and communication protocols of domestic and worldwide mainstream meter manufacturers | |
| Interface | Initial rate: 1200 bps, supported rates: 1200, 2400, 4800, and 9600 bps | |
| **RFID** | | |
| Frequency | 13.56 MHz | |
| Reading distance | Within 50 mm | |
| Communication protocol | ISO14443A(B)/15693 | |

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