

iData[®]

iData 70

User Manual

www.idataglobal.com

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1 Introduction

1.1 iData 70 overview

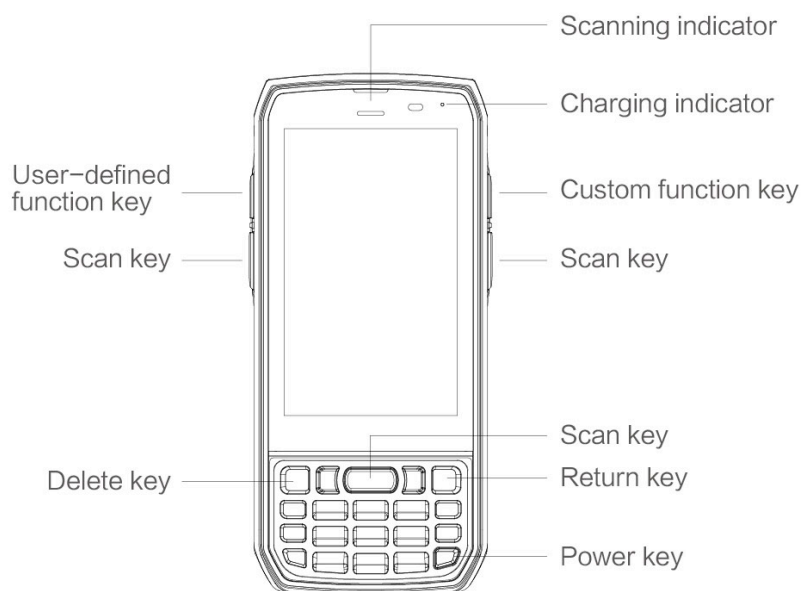


fig 1-1 iData 70 front view

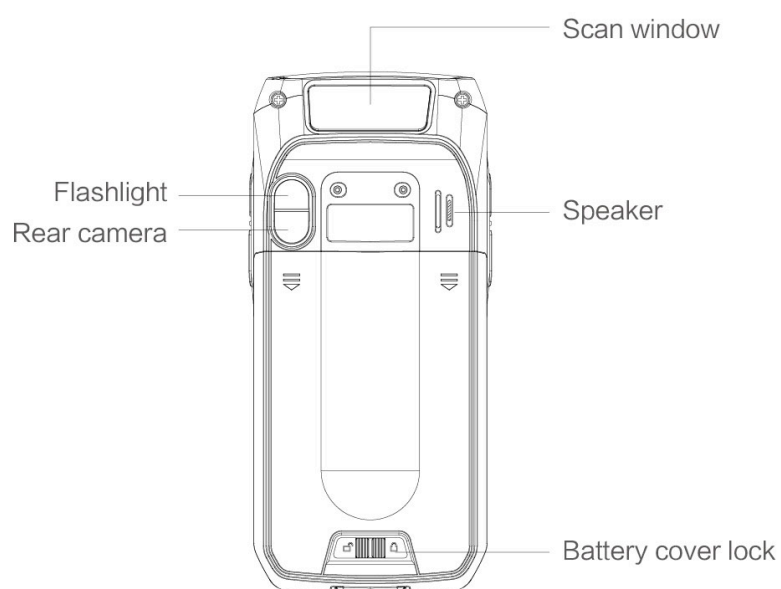


fig 1-2 iData 70 back view

1.2 Insert a TF card

Insert a TF card as follows:

Push the TF card same as the sign direction below into card slot.

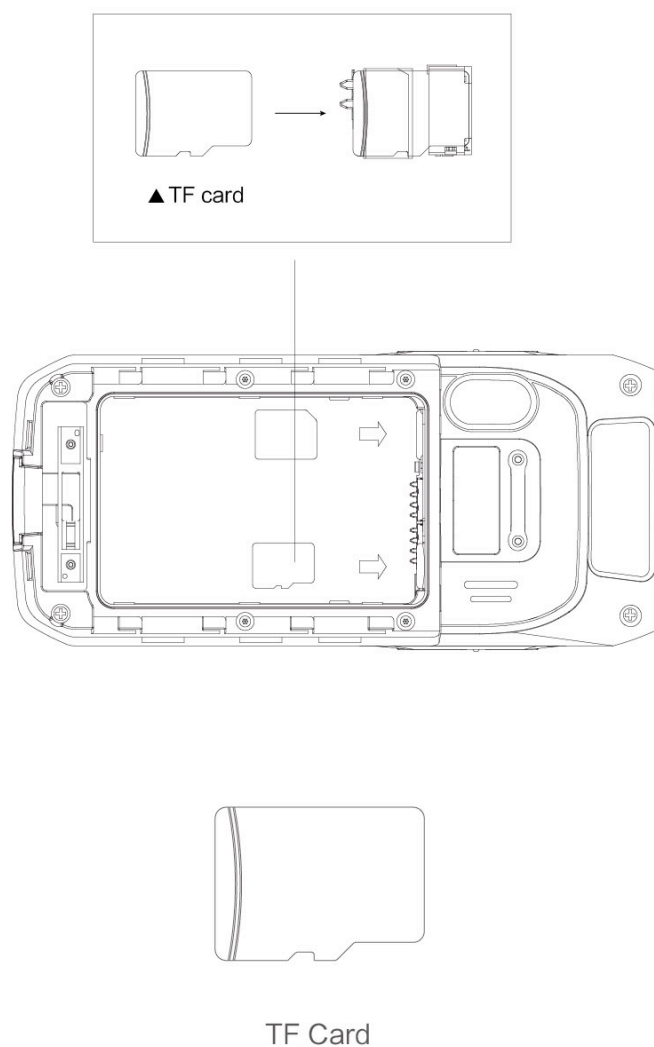


fig 1-3 Insert TF card

1.3 Insert a SIM card

Insert a SIM card as follows:

Insert SIM card as below direction into card slot.

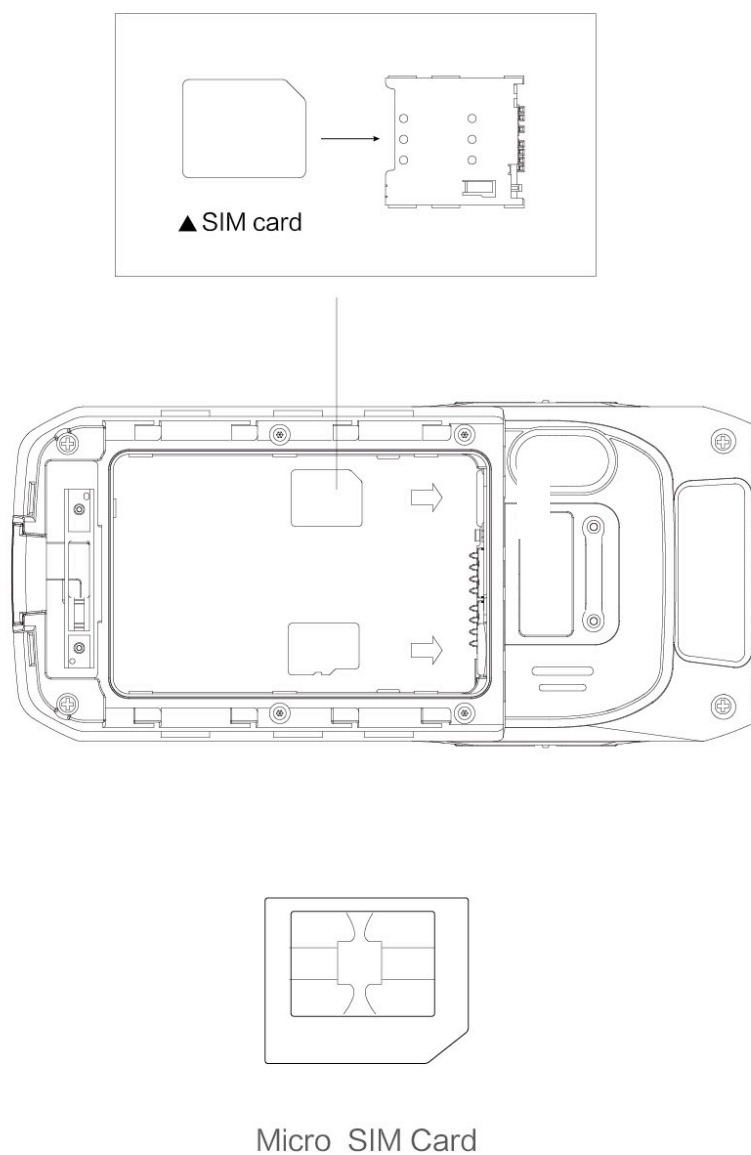


fig 1-4 Insert SIM card

1.4 Install the battery

Installing the battery as follows:

1. Push the battery to the battery compartment and press it downwards.
2. Close the battery cover, push forward, press it downward.
3. Push right the battery cover then it's locked.

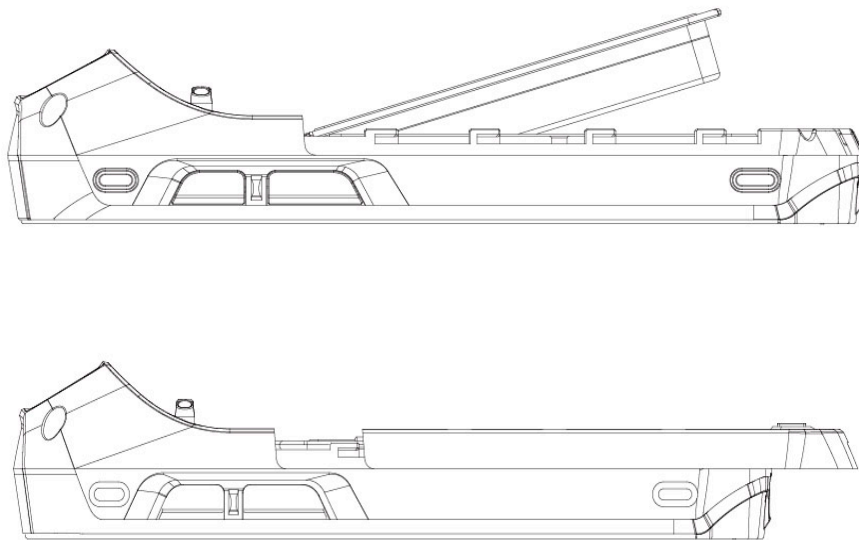


Fig 1-5 Installing battery

1.5 Remove battery

Remove the battery cover as follows:

1. Push the battery lock to the right.
2. Pull up the back cover and battery from notching slot of the battery cover.

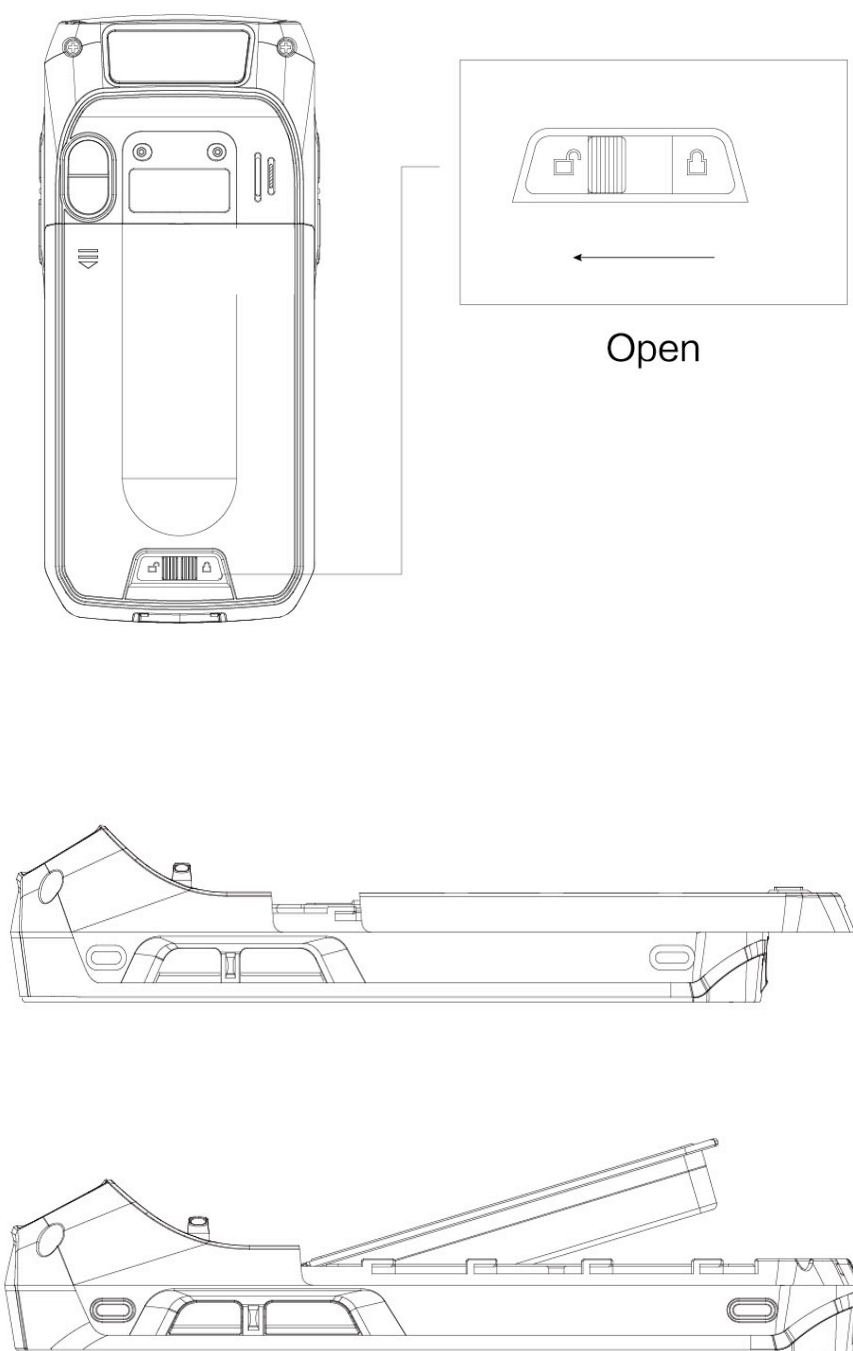


fig 1-6 Removing battery

1.6 Charging battery

You can charge the battery in below 2 ways:

1. Connect to USB cable for charging iData 70;
2. Use a desktop stand for charging iData 70;

When it's charging, LED instructor is red, when it turns to green means battery is full charged.

When battery is insufficient, iData 70 pops up warning messages.

When battery is dying, iData 70 automatically shuts down.

★ Notes:

Battery charging time can be more than or less than 3 hours. Charging interruption won't cause damage to battery. Battery life depends on iData 70 actual usage, such as all iData 70 functions, operation mode, data transmission etc.

★ Hints:



To make sure iData 70 has a longer standby time, please do as follows to save battery consumption;

- Charge iData 70 when it's not used
- Set hibernate time longer (Home screen->Application->Settings->Display->Hibernate)
- Disconnect all wireless activities when iData 70 is not used

2 Use iData 70


2.1 Start up and Shut down

Make sure SIM card is inserted, battery is set and charged, then you can start up iData 70.

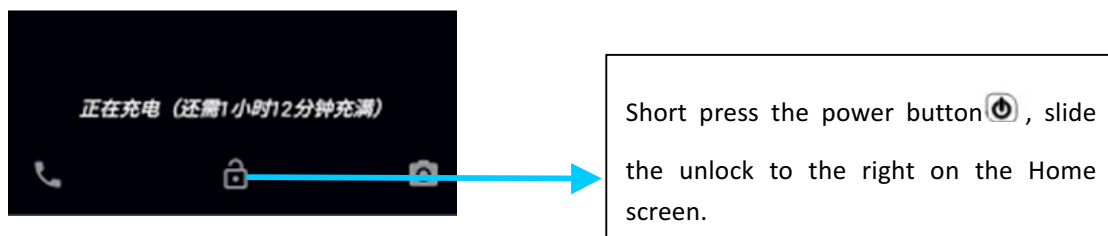
1. Starting up, press and hold the power button  on the right top of the device, it will show up the starting up page, after it's launched then entering the Android operating system, it takes some time for starting, please be patient.
2. Shutting down, press and hold the power button  on the right top of the device, it pops up the shut-down option dialog, then click **Shut down**.

2.2 Device lock and unlock

Lock device

Short press the power button . Device will also lock itself when there's no operations to the device within the auto-lock screen time set by system default or customized.

Unlock device



2.3 Device keys

iData 70 has physical keys, shown as below, 20 keys in total, divided into **function key**, **digit key**, **symbol key** and **scan key**.

Among iData 70 physical key board, functional keys from left to right corresponding to Android system **delete key**, **up key**, **scan key**, **down key** and **ENTER**, function keys on the left-bottom corresponding to **1Aa key** and **Fn key**.

Scanning key: Scanning

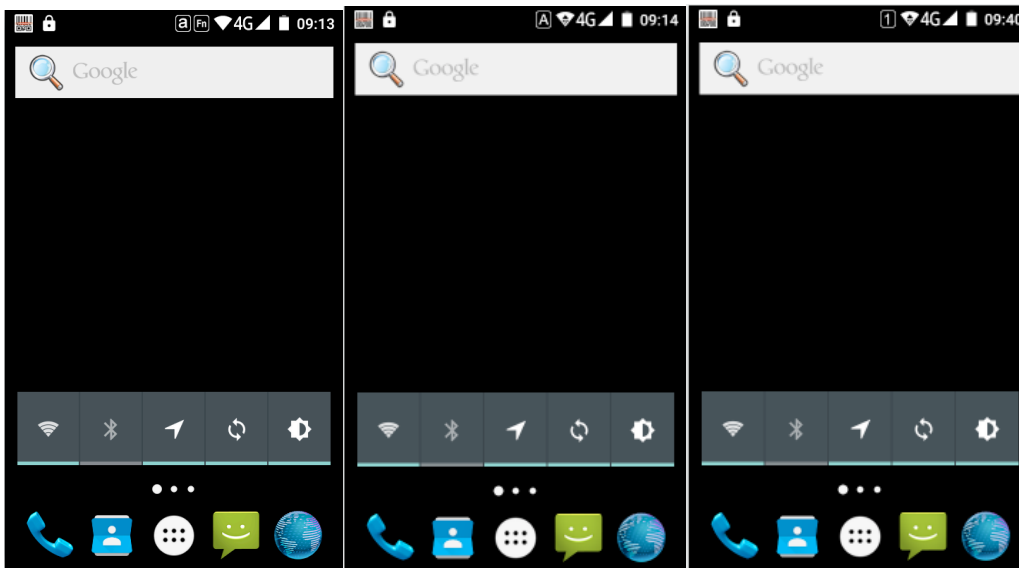
Deletion key: Delete

Direction key: Move up/down operations

ENTER: Operation confirm

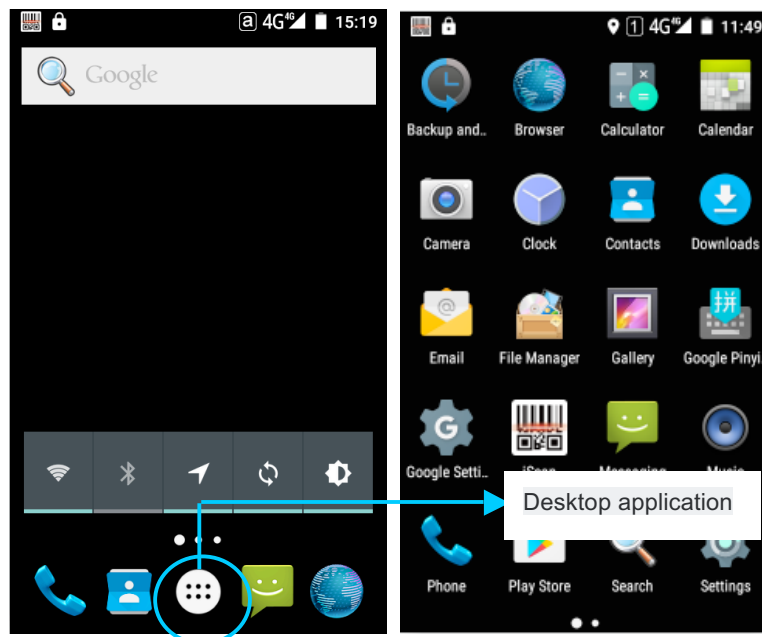


Function keys **1Aa** and **Fn** actual usage displayed as below:



2.4 Home screen

There's 1 Home screen for iData 70, you can switch screen by sliding left or right. You can open any Apps by tapping its icon shown on the screen.

















★Hints:

- You can add/delete Apps icon on the screen blank places.
- You can view all Apps by clicking the application tray.

2.5 Status icons and indicators

Status icons and indicators shown on the status bar on the top of the screen, displays the device status, info and notice.

tab 2-1 Status icons

Icon	Instruction	Icon	Instruction
	WLAN		Signal
	Bluetooth		Airplane mode
	USB		Limited access to internet
	Miss call		USB mapping
	New message		Charging
	Modulator-demodulator log		Fully charged
	Mute		Multiple notification icons, exceeding display range

	USB connect to PC Pea Pod		EDGE
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★Instruction

As device software upgraded constantly, status symbol shown above might be different to the ones on devices, please follow the actual situation.

2.6 Basic settings

2.6.1 Date and Time

Set the Date and time based on actual need.

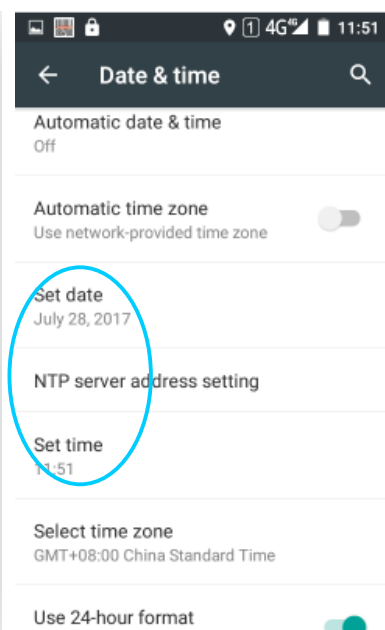
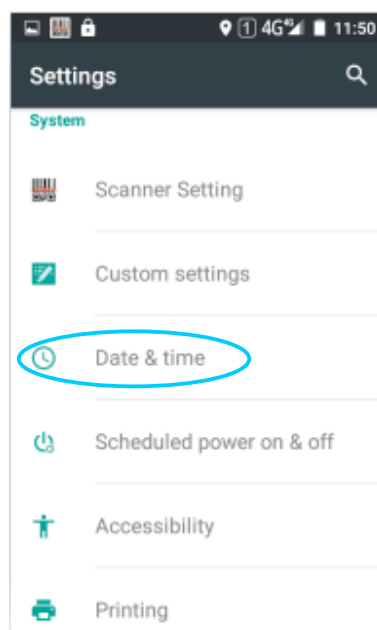
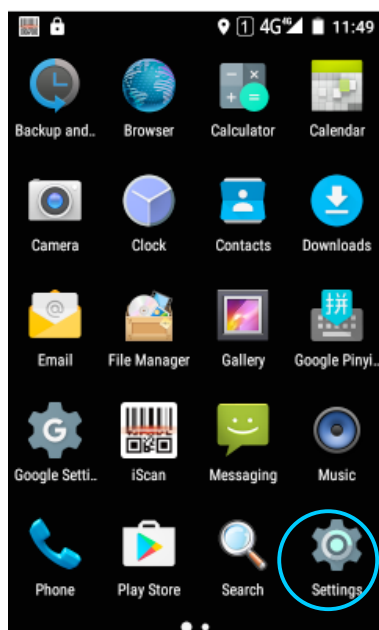
Find this icon:



->Settings

->Date and Time

->Set date or set time



2.6.2 Display setting

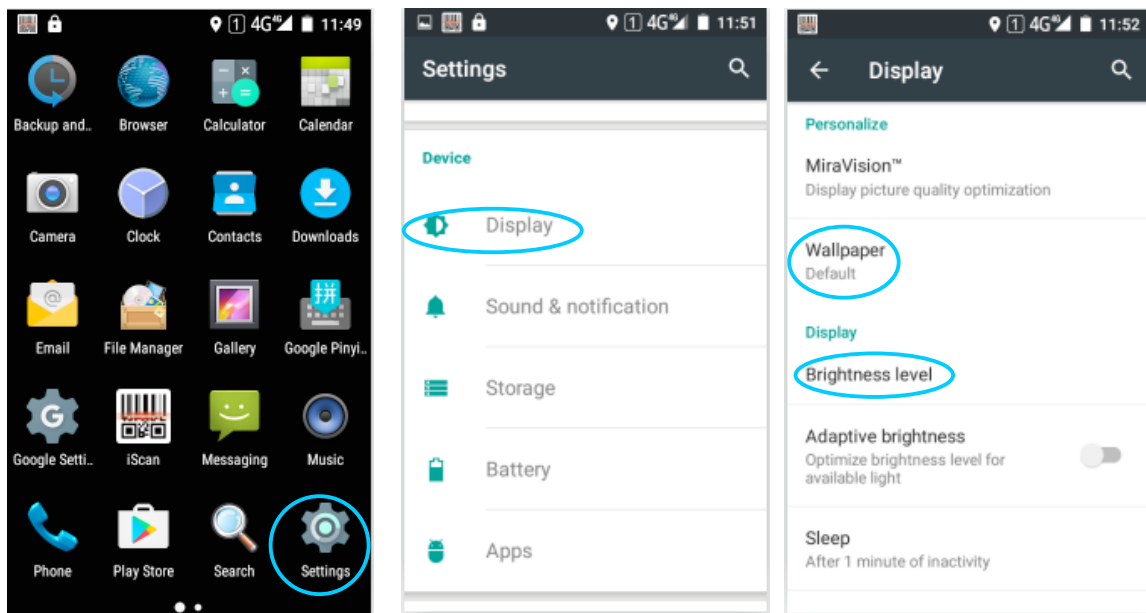
Find this icon:



->Setting

->Display

->Brightness/Wallpaper/Screen latency/Fonts



2.6.3 Sound setting

Find this icon:

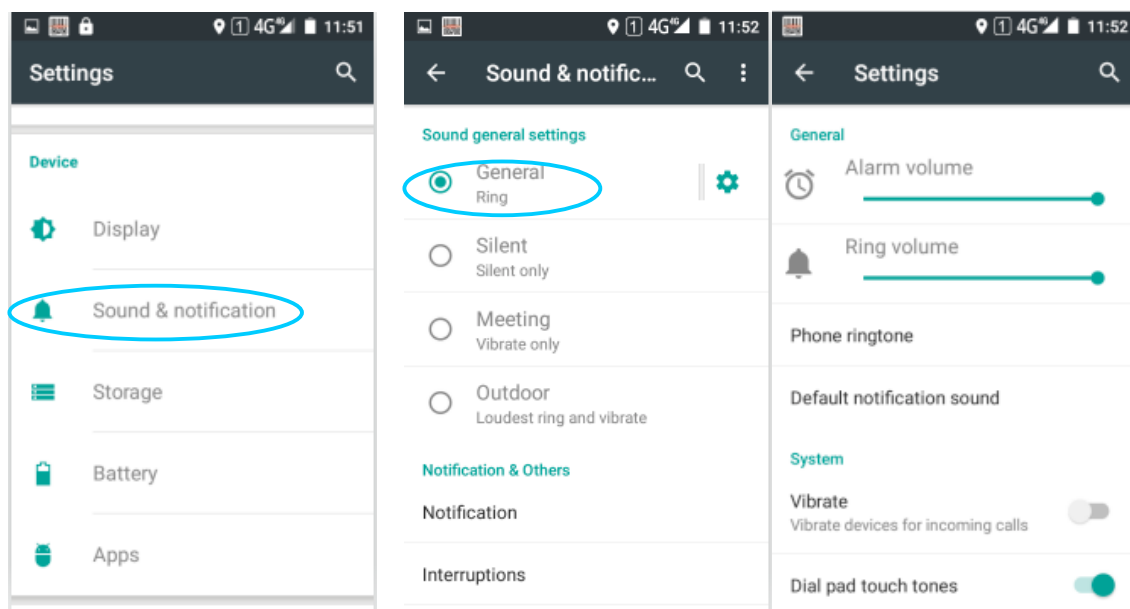


->Setting

->Profiles

->Standard/Silence/Meeting/Outdoors

->Set regular Sounds/Ring by choosing different profiles



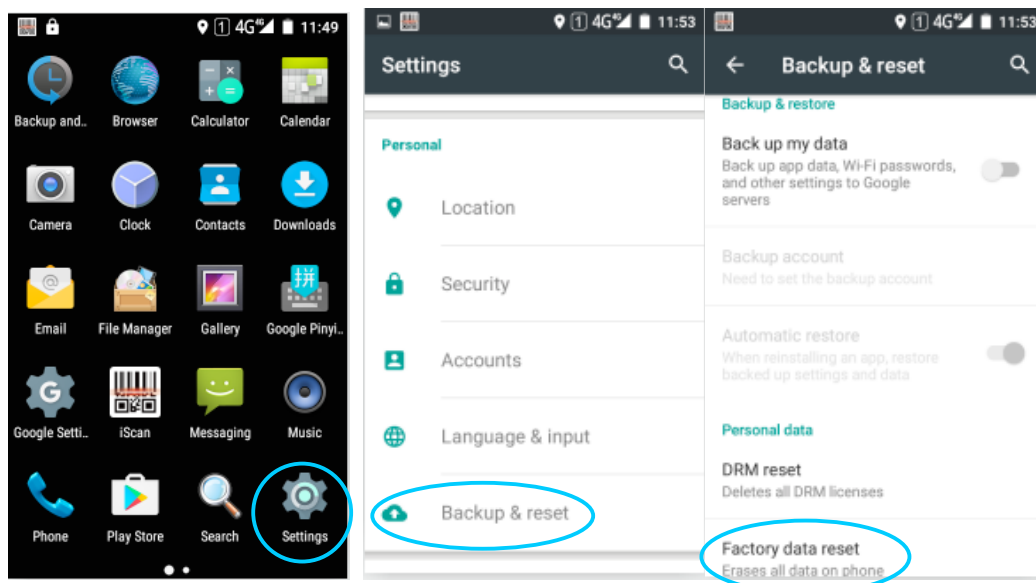
2.6.4 Security setting

Find this icon:



- >Settings
- >Backup and Reset
- >Restore factory settings

Click **Phone Reset**, then **Erase all contents**, device starts to restore factory settings.



★Notes

This operation will erase below data

- Accounts
- System and Apps data and settings
- Downloaded Apps

Below data remains

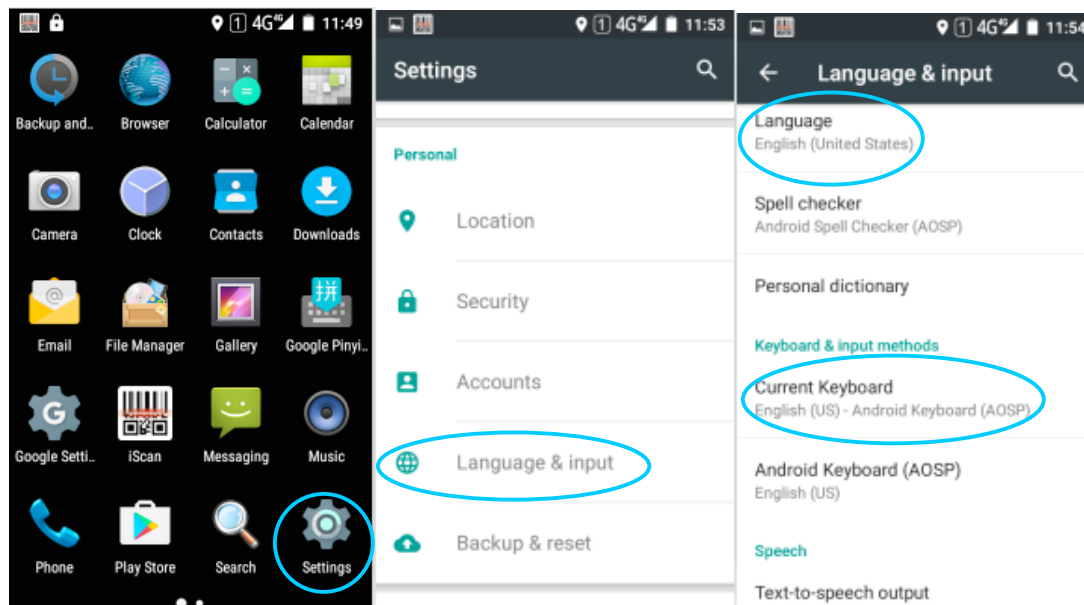
- Current system and bundled Apps
- TF card data, like music and pictures

2.6.5 Language and Input settings

Find this icon:



- >Settings
- >Language and Input
- >Select Language, choose any language you want to switch in the list
- >Select **Default**, choose any input method you want in the list



2.6.6 Custom settings

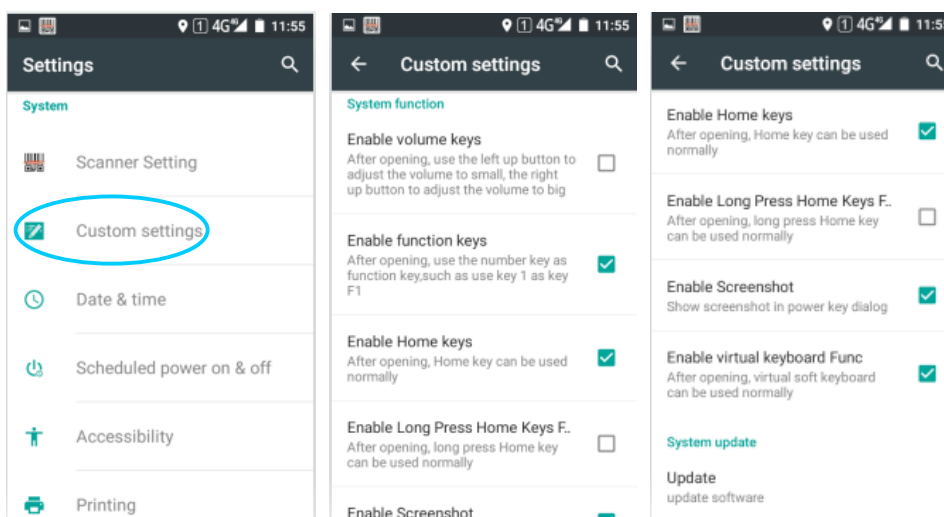
Find this icon:



->Settings

->Custom settings

->User defined setting Turn On/Turn Off custom functional keys



2.6.7 Shortcut

You can add shortcut on the Home screen for the device.

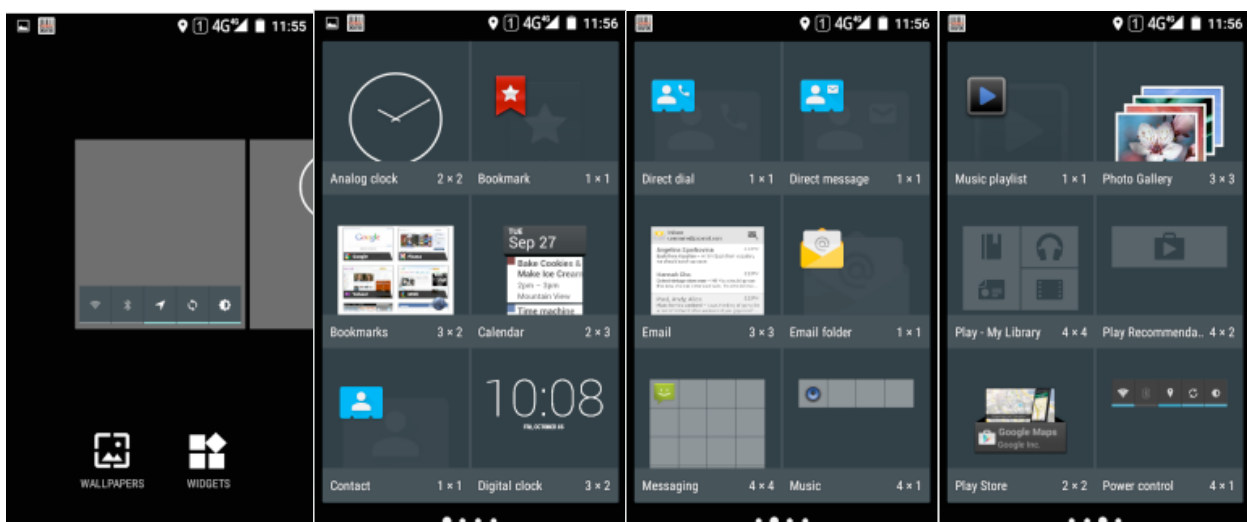
On the Home screen, you can tap and drag the Apps icon from the application tray to Home screen for adding the shortcut you want.

2.6.8 Widgets

You can add widgets like clock, music player and calendar to Home screen.

On Home screen, tap application tray icon and slide to Widgets page, tap and drag the tools you want to the Home screen.

Open widgets by tapping the widgets icon.



3 Email Function

3.1 Emails

Email can send/receive mail messages.

★Instruction

Create a mail account on iData 70, take 163 mail box as example, after log in, click **settings** on the upper right of the page, access the Accounts option, choose and check all the server and receive/send email options, then save, mail account setup completed.

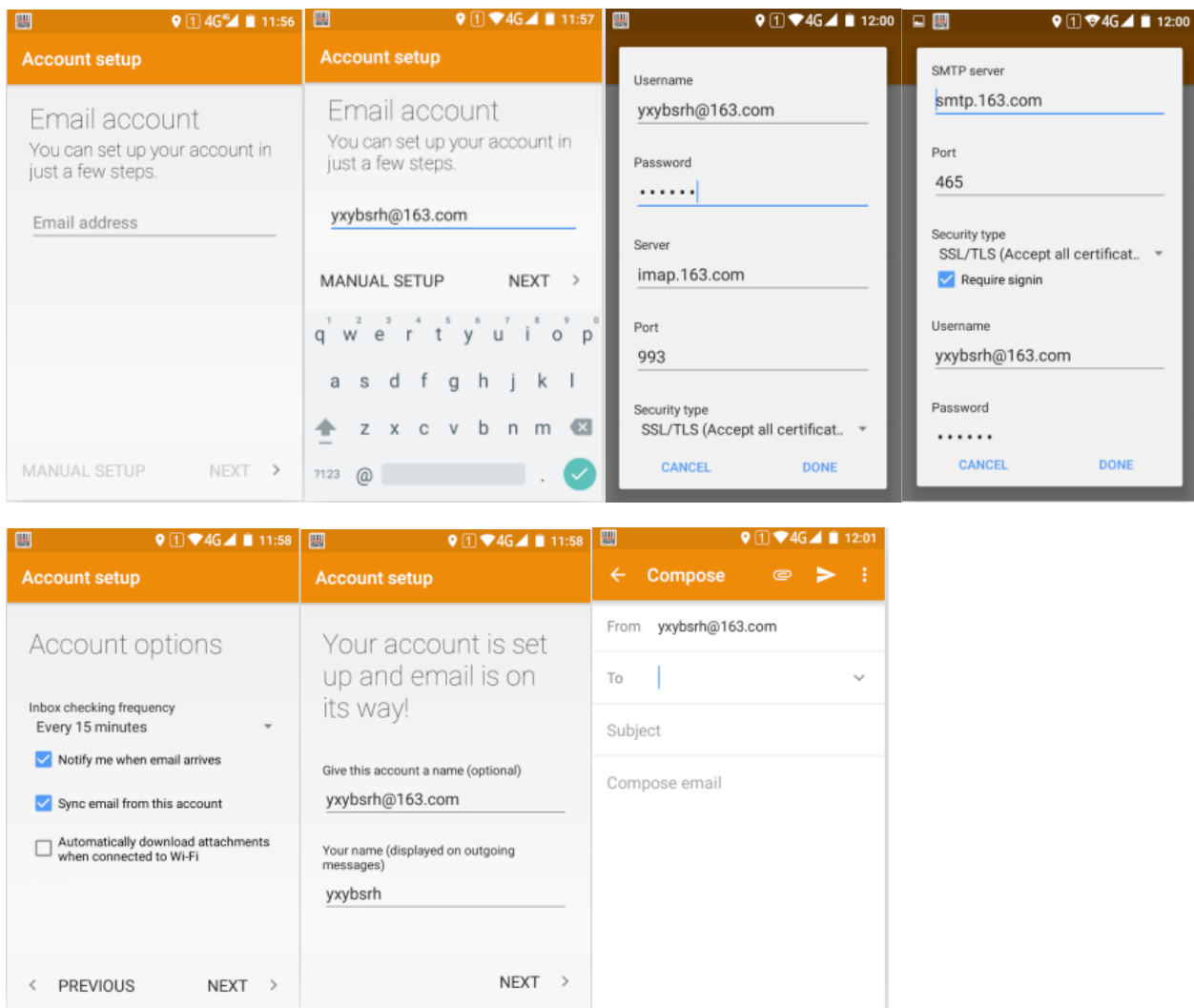
Find this icon:



Email -> Emails

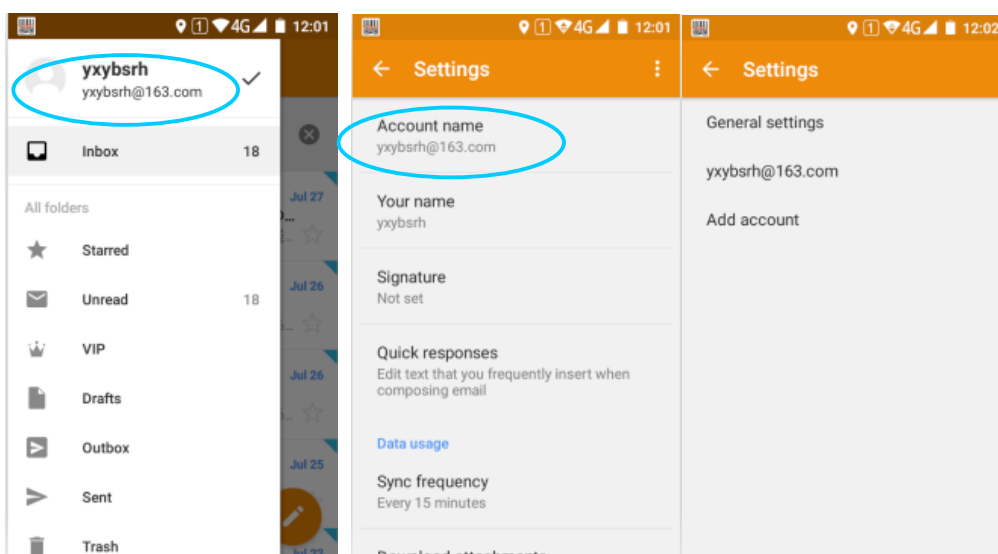
1. Input **email address** and **password**, tap **Next**, it starts to connect to email account;
2. Set **Email check and synchronize frequency**, then go to **Next**;

3. Input a name for the account creation, tap **Next**, it goes to the mail check and reading page.



Delete account

1. On the mail page, tap **Menu** then **Settings**;
2. Choose the mail account you want to delete, open the settings page;



4 Network and connection synchronize

4.1 Data connection

Network configuration

Network is already set before delivery。 You can choose a new network manually by software configuration if original network setting was deleted by mistake.

Find this icon:

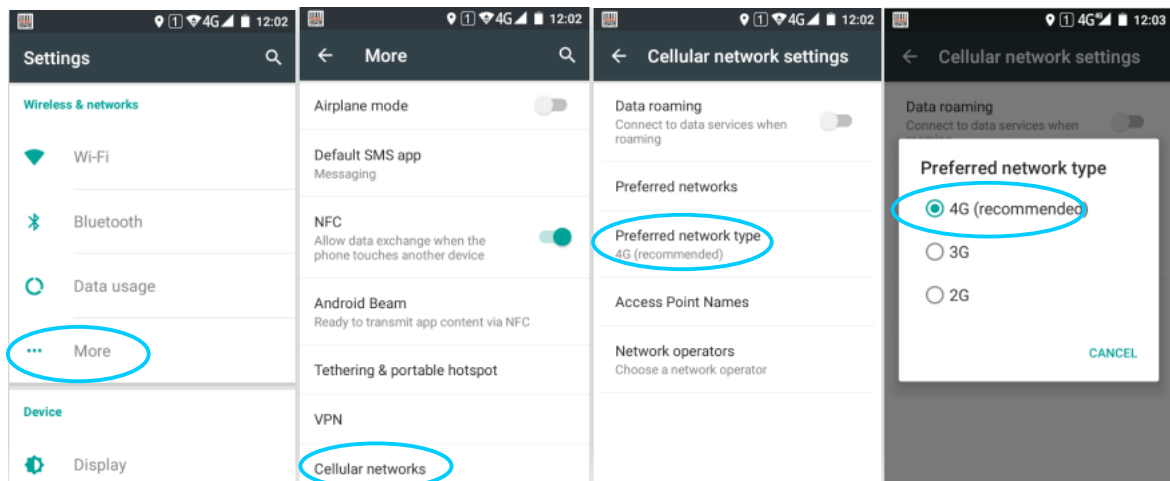


->Settings

->More

->Mobile Network

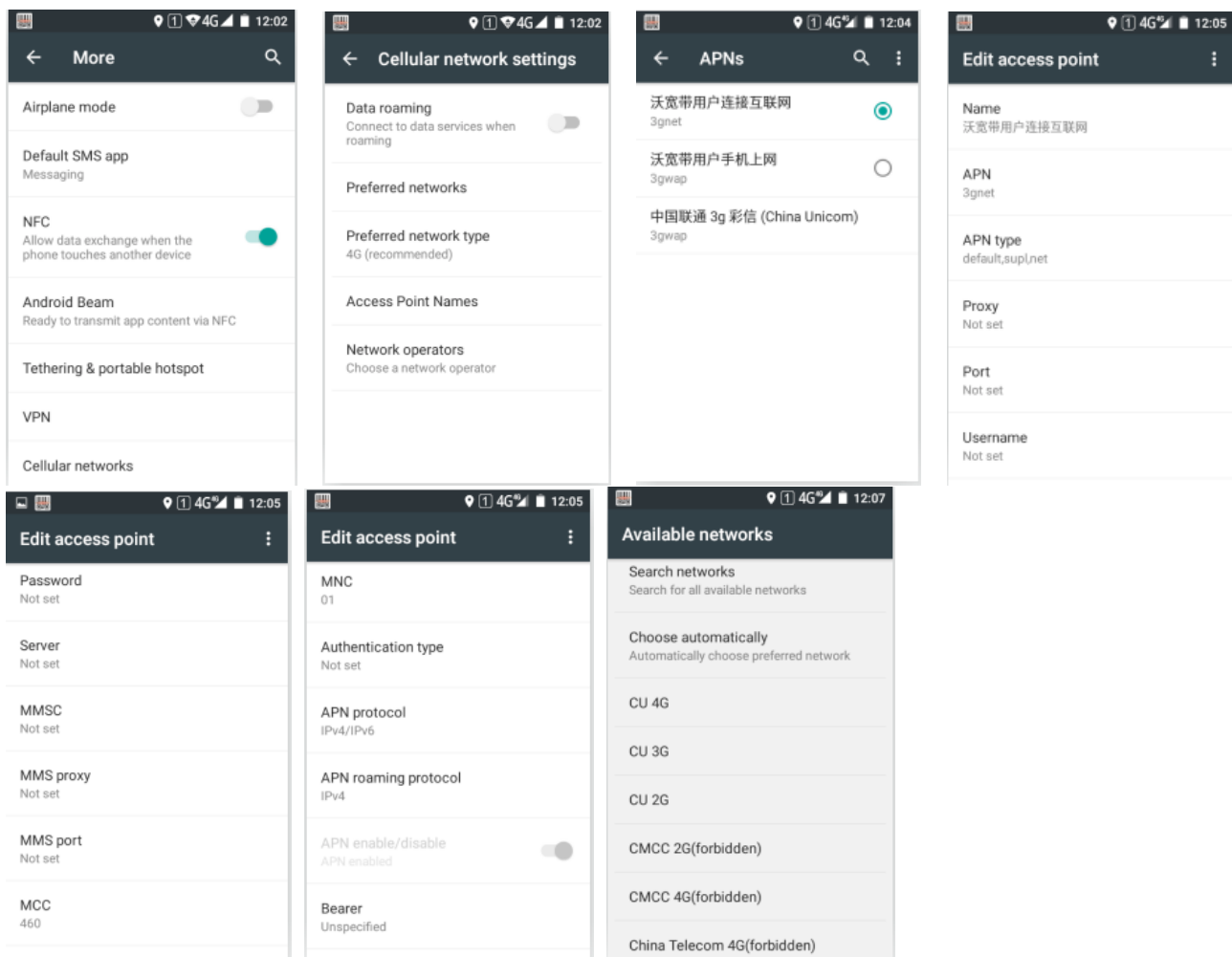
->Preferred Network Type



Create GPRS data connection then access the Internet

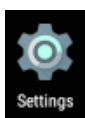
Search and register Network manually-manual search network-network carrier

You need to make sure SIM card is inserted into iData 70 before establishing GPRS data connection. Usually network setting is already set, if it was deleted by mistake, you can set the network according to below instruction which takes China Mobile as sample:



4.2 Wi-Fi connection

Find this icon:

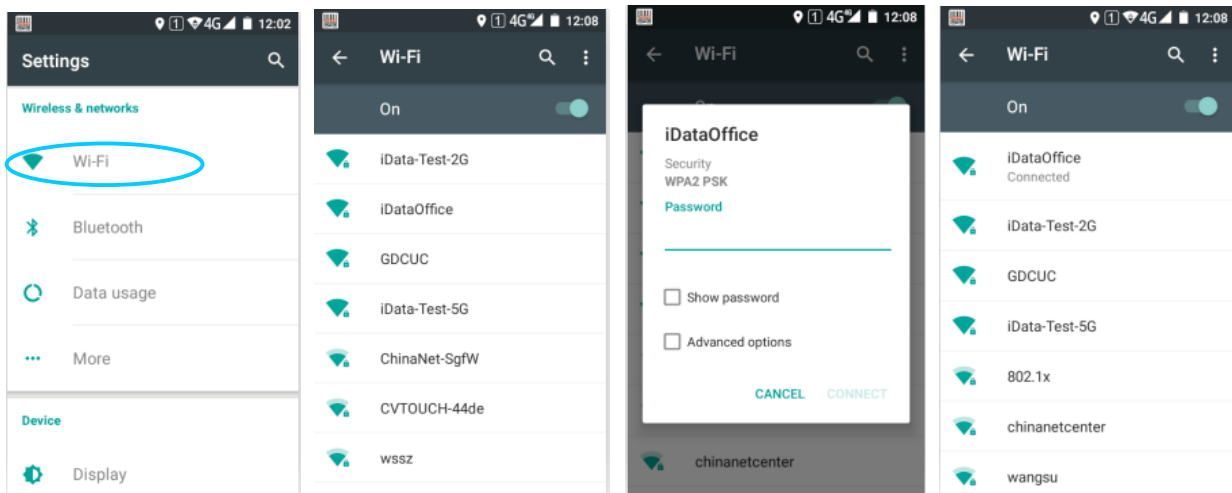


->Settings

->Wi-Fi and Network

->WLAN

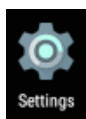
1. Tapping **WLAN OFF/ON** button to open and search for network. If WLAN is already opened, click "**Scan**", then all in-scope network will be listed out.
2. Click the network name you want to connect, input the connection password when it pops up the password dialog.
3. Click **Connect** then Wi-Fi connection will be completed.



4.3 Bluetooth

Opening Bluetooth function can connect to other Bluetooth compatible devices (like computer, cellphone) and exchange messages. It is more stable by establishing connections in the range that without any solid obstruction.

Find this icon:

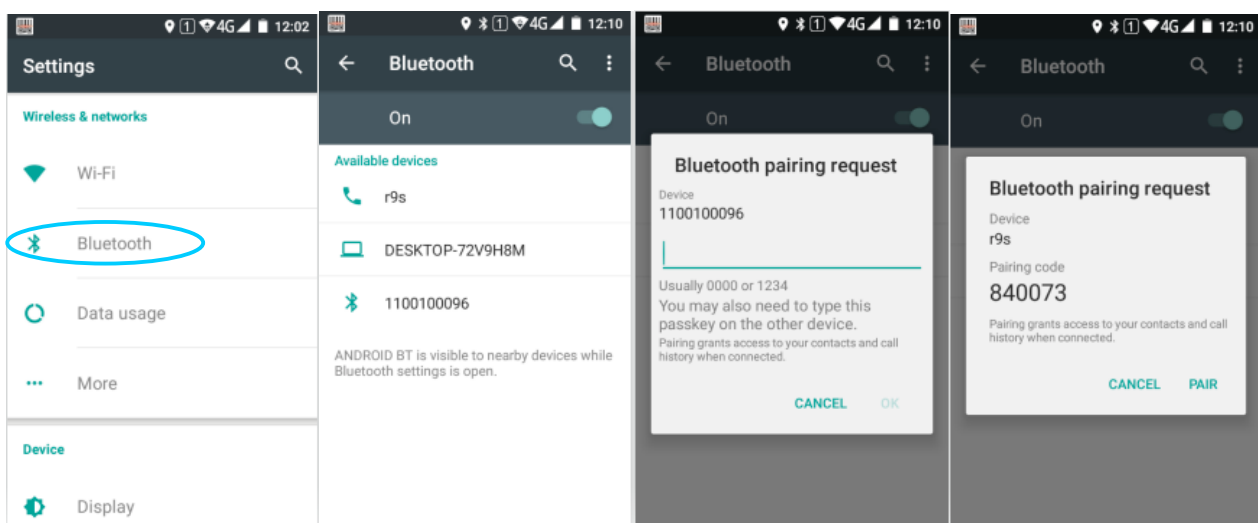


->Settings

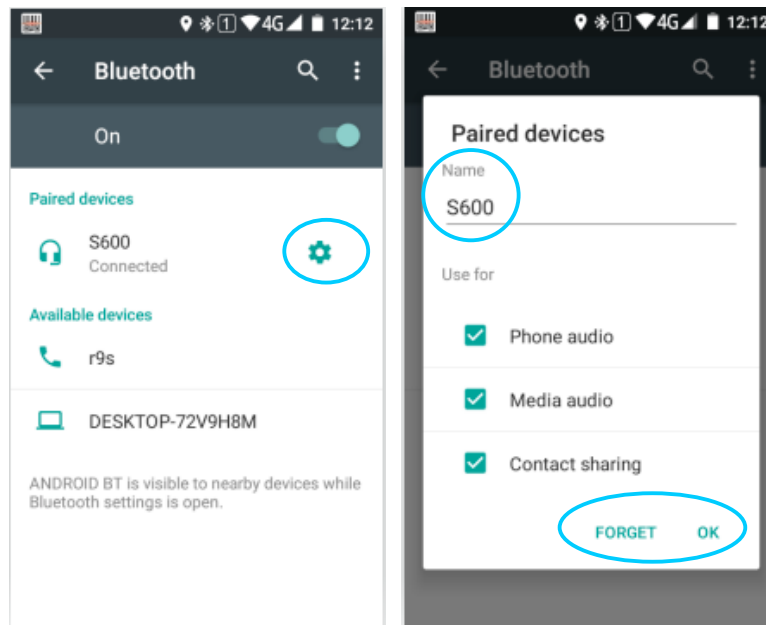
->Wi-Fi and network

->Bluetooth

1. Tap the Bluetooth OFF/ON button, switch on and search other Bluetooth devices;
2. From the Bluetooth device list, choose the one you want to connect to;
3. Input the PIN code in the dialog, tap “confirm” to connect to the device.



4. Tap the device icon which is already connected, you can see the Forget and File transfer options, operate by actual need.

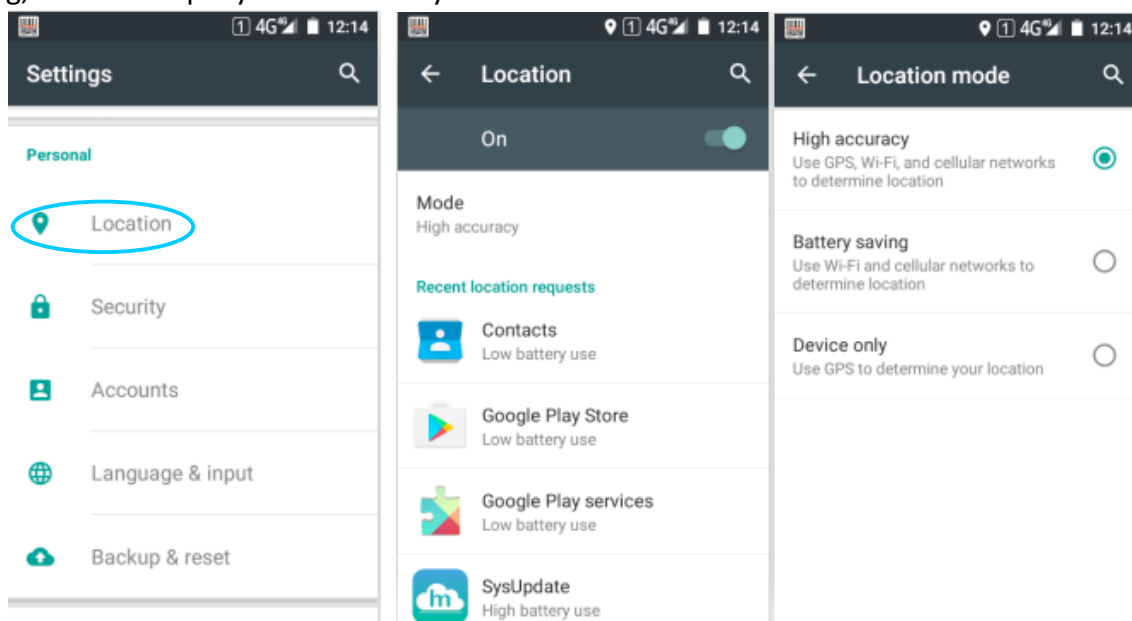


★Notes

- Make sure the device you want to connect to has the Bluetooth function enabled and visible.
- During connection, must input PIN code, this device doesn't support password-free connection.

4.4 GPS

iData 70 is equipped with high-performance navigation chipset, opening the location information setting, it locates rapidly and accurately.



4.5 Connect PC with USB

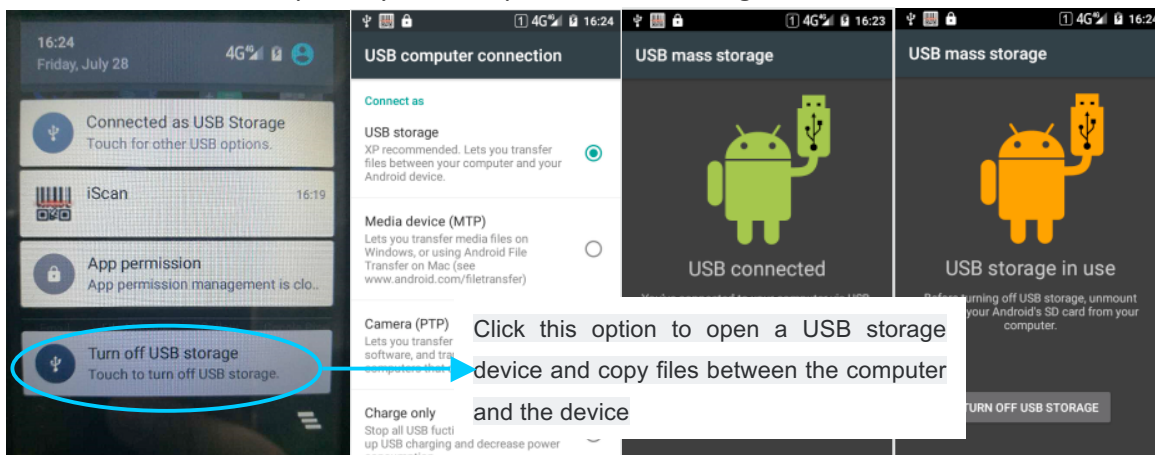
Connecting the device with computer by USB wire, it's convenient for picture, video, music files transmission and operation between device TF card and computer.

1. Connect device USB wire to USB interface of computer;
2. USB connection icon will show up in the device status bar, swipe down the status bar, you can see the USB connection status, and choose USB connection mode.

USB connection mode:

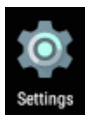
Directly used for USB storage – choose media device(MTP)

Click USB connected option, you can open the USB storage



4.6 Synchronization

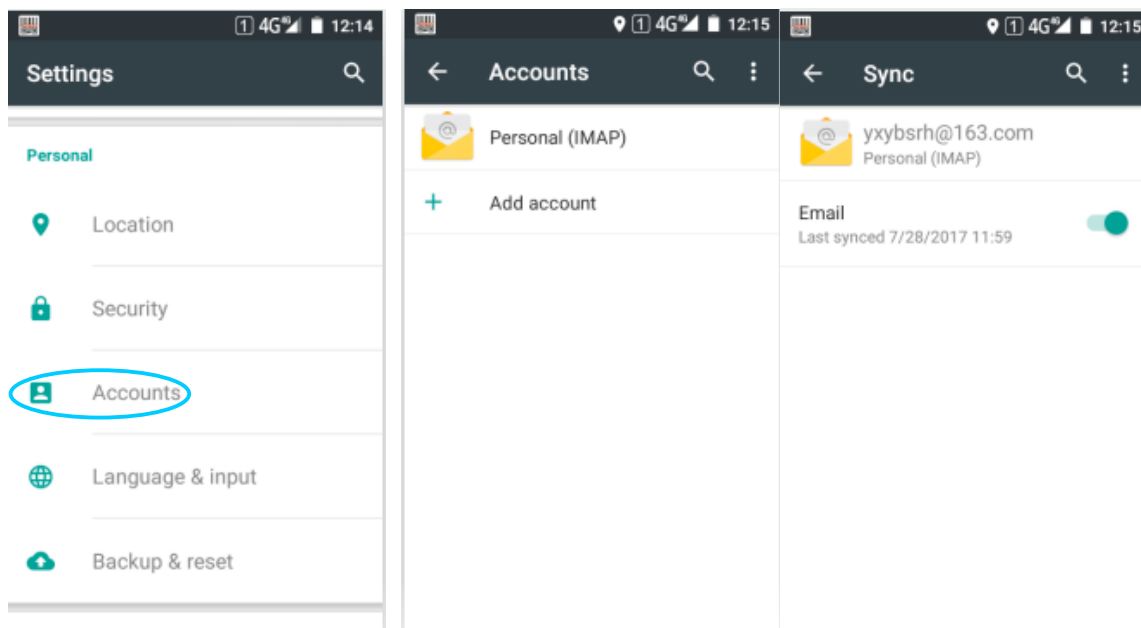
Find this icon:



->Settings

->Accounts and synchronize

- 1 Tap **Add accounts**, set new account;
- 2 Choose **company** or **email**, input mail address and password, then click **Next**, wait till connection completed (Mail setting please refer to **3.1 Emails** chapter)
- 3 Tap **Accounts**, enter Synchronization setup page, set according to needs.

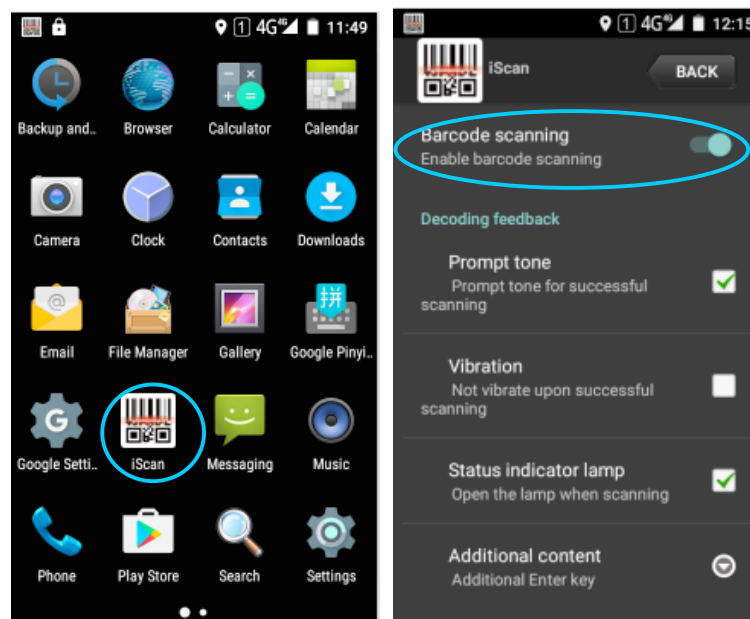


5 iData 70 Scanning demo introduction

5.1 iScan installation and operation

You must have scanning application installed on device for data collection. Currently, iData provides free demo scanning application – iScan for iData 70, to get the barcode info.

Firstly install the iScan on iData 70 (installation method referring to **6.1 Installing application**), iScan icon will appear on the application page after installation, tap to open it (it is set to use barcode scanning by default), tap scan key to do barcode scanning.



6 Manage iData 70

6.1 Install application

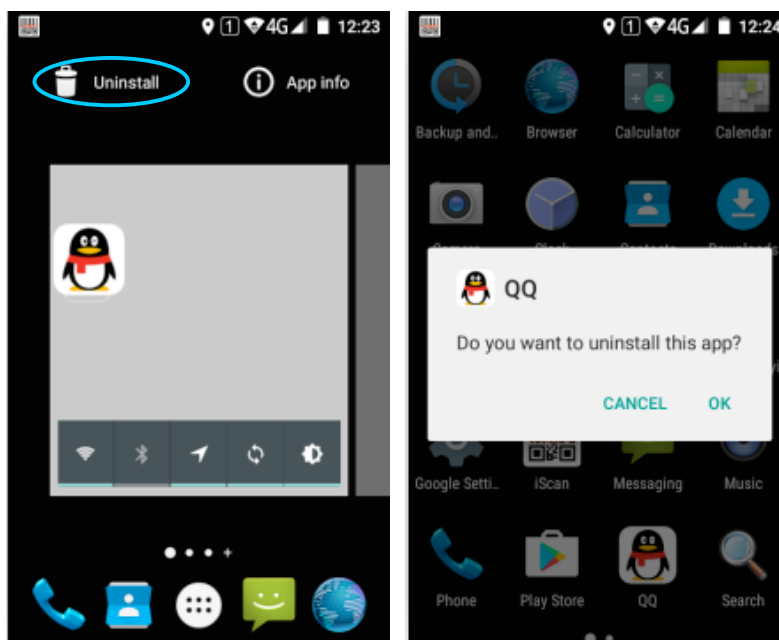
iData 70 is using Google Android operating system, of which application suffix is apk. There are several installation methods of iData 70 application.

1. You can download and install software through Google online software store (Google Play) or domestic Android download platform.
2. You can download the software binary and copy to TF card, then install it through File manager.
3. You can also use USB wire connecting to computer, operate installing software on computer, but in advance, you need to install software such as APK installer, Pea pod or 91 cellphone assistance which also support batch installation.

6.2 Uninstall application

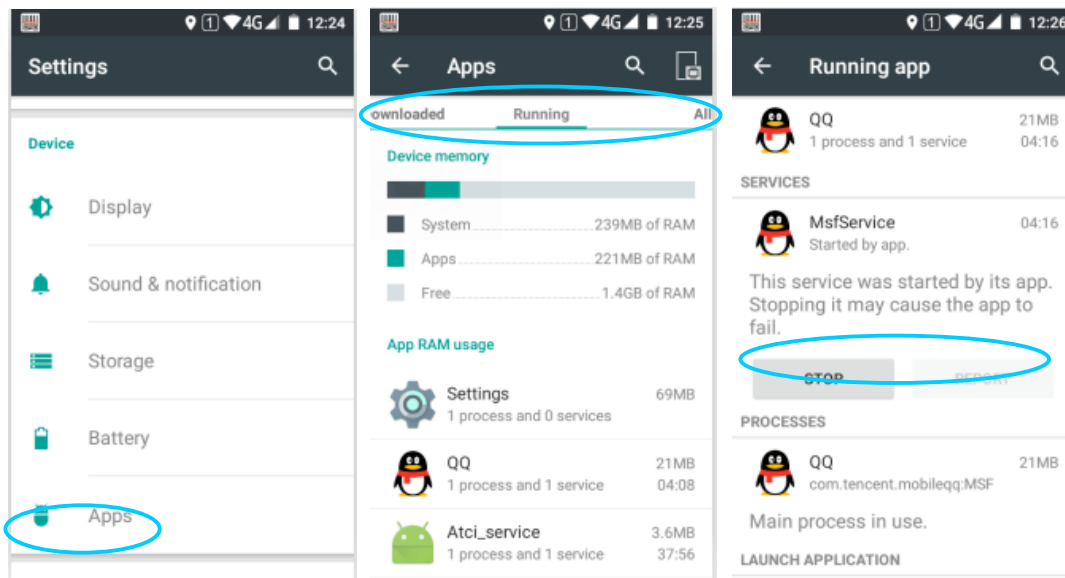
Sometimes there could be too many applications installed and some of them are not used, which you can uninstall, improve speed of device.

1. Go to Settings->Application, choose the application you want to remove from the application list, click it, enter application information interface, click Remove to proceed, then click Yes.
2. Tap Application Tray, open application interface, look for the Apps icon you want to remove, long press icon and drag to trash to uninstall the application.



6.3 Manage application

User can tap **Menu key** (Yellow scanning key) to open **Application management** menu, entering the application management interface can check the application status which is either from **downloads**, from **TF card** or in **running** status. You can **force to stop**, **uninstall** or **disable** applications listed in the application info interface by tapping it.



7 Use precautions and troubleshooting

7.1 iData 70 use precautions

To avoid malfunction of the device, please follow tips when using iData 70:

- Place the device and its accessories in places where children can not touch.
- Keep the device dry. Rain, moisture and liquid contain acidic substances that can corrode electronic circuit boards.
- Do not store or use the equipment in a dusty or dirty place.
- Do not store the device in a hot place, high temperature will shorten the life of electronic devices.
- Do not store the equipment in a subcooled place. When the temperature of the device rises, moisture inside the device may damage the circuit board.
- Do not try to disassemble the equipment, non-professional handling will damage the equipment.
- Do not use a pen, pencil, or other sharp objects to touch the surface of the iData 70 to avoid scratching the screen.
- Do not throw, knock or violate the equipment, rashly treat the equipment will damage the equipment parts, may cause equipment failure.
- Do not use strong chemicals or potent detergent cleaning equipment. If the equipment is dirty, clean the surface with a soft cloth diluted with a glass cleaner solution.
- Use a protective film to minimize wear. Screen protector can improve the usability and durability of the touch screen.

Battery safety guidelines

- The charging area of the equipment must be kept away from debris, flammable or chemical substances.
- When charging the battery of a mobile device, the temperature of the battery and charger should be between (0 ° C and 40 ° C).
- Do not use incompatible batteries and chargers. Using an incompatible battery or charger may

cause a fire, explosion, leak, or other dangerous accident.

- Do not disassemble, squeeze, twist, pierce or cut the battery.
- Do not short the battery, or use metal or other conductive objects to contact the battery terminals.
- Do not insert foreign matter in the battery, contact the battery with water or other liquids, so that the battery exposed to open flame, explosion sources or other dangerous sources.
- Do not place or store the battery in an overheated environment.
- Do not place the battery in a microwave oven or dryer.
- Do not throw the battery into the fire.
- If a battery leak occurs, do not allow the liquid to get on the skin or eyes. If you accidentally touch it, rinse the exposed area with plenty of water and seek medical attention immediately.

Clean iData 70

- Shell

Use a wine cloth to wipe the shell, including the keys and the keys between the parts.

- Screen

The screen can be wiped with an alcohol cloth, but be careful not to let the liquid accumulate around the screen. Immediately wipe the screen with a soft, non-woven fabric to prevent streaks on the screen.

Scanning window

- Please periodically wipe the scanning window with a mirror paper or other items suitable for cleaning the optical material

7.2 Trouble shooting

Table 7-1 iData 70 common faults troubleshooting

Issues	Reason	Solution
When the power button is pressed, iData 70 is not turned on	Low battery or not charged	Charge iData 70 batter or change battery
	Battery is not installed correctly	Install the battery correctly
	System crash	Restore factory setting
Rechargeable batteries are no longer charged	Battery failure	Change battery
	Battery temperature is too high/low	Place battery to a normal temperature environment
During data communication, data that	Cable is not configured correctly	Consult to system admin

Issues	Reason	Solution
is not transmitted or transmitted is incomplete	Communication software is not installed or configured correctly	Install or reinstall, synchronize software, update driver
Tapping the button or icon does not activate related function	System no response	System reboot
No volume	Sound set too low or turned off	Adjust volume
iData 70 shut down	iData 70 is inactive	After a period of inactivity, iData 70 locks the screen
	Battery is depleted	Change battery
iData 70 response slowly	iData 70 stores too many files	Delete unused memos and records. If necessary, save these records on the host (or use a memory card to increase the storage capacity)
	iData 70 is installed too many applications	Delete the user-installed application in iData 70 to release memory.
iData 70 unable to read barcode	The scan application is not loaded	Load scan application on iData 70
	Barcode is not readable	Make sure barcode is defect free
	Low battery	If the light beam is stopped when the trigger switch is pressed, check the battery charge

Table 7-2 Bluetooth connection failure troubleshooting

Issues	Reason	Solution
iData 70 couldn't search any Bluetooth device nearby	Too far from other Bluetooth devices	Keep the device within 10 meters away from other devices
	Bluetooth is not activated in other devices nearby	Activate Bluetooth on other devices you want to find
	Device Bluetooth is under invisible mode	Switch Bluetooth to visible mode
When attempting to connect a Bluetooth phone and iData 70, the Bluetooth phone recognizes this iData 70 as a previously paired iData 70	The Bluetooth phone remembers the name and address of the last iData 70 that is paired through the Bluetooth radio	Delete the matching device and name from phone manually
Bluetooth device can be detected but not connected	The device does not support no password connection	Set a Bluetooth password

Table 7-3 cable failure troubleshooting

Issues	Reason	Solution
Cannot be charged	Poor cable connection	Change cable
Cannot connect to ActiveSync	Poor cable connection	Change cable

Table 7-4 Wi-Fi connection failure troubleshooting

Issues	Reason	Solution
Cannot connect to AP	Display "Authentication problem"	Wrong WLAN password

Appendix

Table 1 iData 70 Accessories List

Accessories	Instruction
iData 70	
Standard Battery	
Power adapter	iData 70 standard, charge battery
Strap	
Hand strap	Optional
Outer packing	
USB cable	
Manual	
Warranty card	
Device charging seat	Optional
Battery with (NFC)	Optional

Table 2 iData 70 Technical specifications

Item	iData 70
System configuration	
CPU	High-performance quad-core 1.3 GHz processor
OS	Android 6.0
RAM	16GB ROM + 2G RAM
Expansion slot	Mini SD 卡(Maximum 32G)
Screen	4 inch, HVGA (800X480) TFT high brightness, LED back light
Touch screen	Industrial capacitive screen
Camera (optional)	Rear 8 million pixel auto focus with LED fill light
Exit Window	Corning® Gorilla® Glass (Corning Glass)
Keyboard	20 front keys, 4 side keys, Durable industrial IMD keypad with interior transmission light
Battery	3.8V 5000 mAh lithium polymer battery
Audio	Built-in microphone /Micro USB
Prompt	Vibration /LED /Audio
PASM card	Optional
Vibration motor	Built-in programmable control motor controlled
Use environment	
Development tool	Android SDK+JDK+Eclipse
Language	Java
Operating	-10°C ~ 50°C

Item	iData 70
temperature	
Operation environment	
Temperature	-20°C ~ 60°C
Moisture	0 ~ 95W% (No frost)
Fall down specification	Multiple times falling down from 1.5 meters high on the cement concrete floor
Roll down specifications	Over 500 times rolling down from 0.5 meters high (more than 1000 times collision)
Protection class	IP65
Electrostatic discharge	± 15kV air discharge, ± 8kV direct discharge
Structural parameters	
Size(LxWxD)	159mm x 71mm x 20mm
Weight	262g (includes standard battery)
Communication transmission	
Wireless wide area network (Network frequency)	GSM900/1800/1900MHz, CDMA BC0 (800MHZ) , WCDMA band 1/2, TD-SCDMA band 34/39, TDD-LTE band 38/39/40/41, FDD-LTE band 1/3/7/8/20
Wireless wide area network (Data service)	GPRS/EDGE/ EVDO /HSPA+/TD-SCDMA/TDD-LTE/FDD-LTE
Wi-Fi	(Optional) Wi-Fi 802.11a/b/g/n (Optional) Wi-Fi 802.11a/b/g/n/ac
Bluetooth	Bluetooth 4.0+EDR, Supporting BLE
GPS	Supporting GPS / AGPS/Glonass
Input / output interface	
USB	1 (Micro USB interface)
Charging interface	1
Data collection specifications	
One-dimensional laser scanner	
Optical resolution	≥ 4 mil
Scan depth of field	3.81 cm - 60.98 cm
Scanning angle	47°± 3°(Standard)
Scanning speed	102 times ± 12 times per second (both way)
One-dimensional linear imager	
Reading mode	CCD
Reading accuracy	≥ 4 mil
Decoding	Maximum 300 times/second

Item	iData 70
speed	
Two-dimensional regional imager	
Optical resolution	≥ 3 mil
Scanning angle	Omnidirectional
Scanning speed	300 times per second
RFID Radio frequency identification	
Frequency	13.56 MHz
Reading distance	Within 50 mm
Communication protocol	ISO14443A(B)/15693
NFC	Optional

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