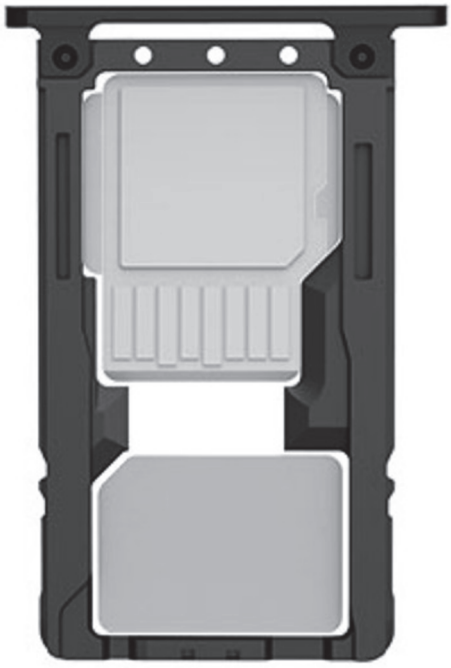
Mobile Data Terminal

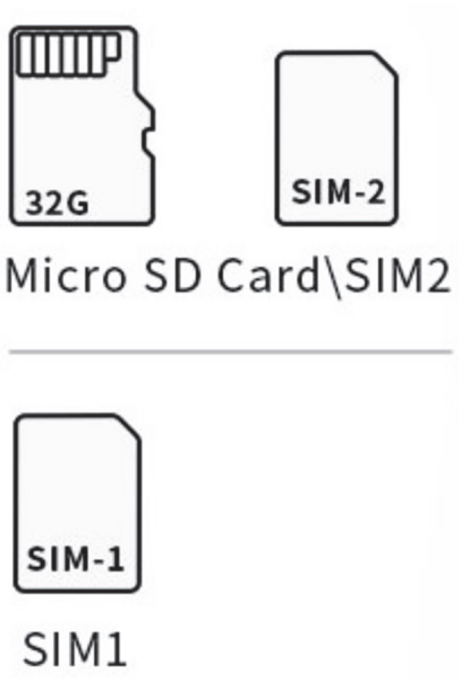
LM-72 User Manual

Chapter 1 Installation Guide

1.1 Appearance

1.2 Install Micro SD, SIM cards





1.3 Battery Charging

By using Micro-USB contact, the original adaptor should be used for charging the device. Make sure not to use other adaptors to charge the device.

1.4 Buttons and Function Area

LM-72 has 4 side buttons and 4 main keys, handheld connection port locates at rear, 2D scanning module and camera locate at top.

Buttons instruction

Button		Description
Side button	1.Power	Located on left side, press to ON/OFF device.
	2.Function key	Located on left side, its function can be defined by software.
	3.SCAN	Scanning button located on both sides. There are two scanning buttons.
Main button	4.Menu	Display main menu.
	5.Home	Touch it back to main screen.
	6.Enter	Press to confirm current selection.
	7.Backspace	Return to last step to setup.

Chapter 2 Call function

2.1 Calling numbers

1. Click icon  .
2. Click number key to input phone numbers.
3. Click icon  to call.
4. Click icon  to end call.

2.2 Contacts

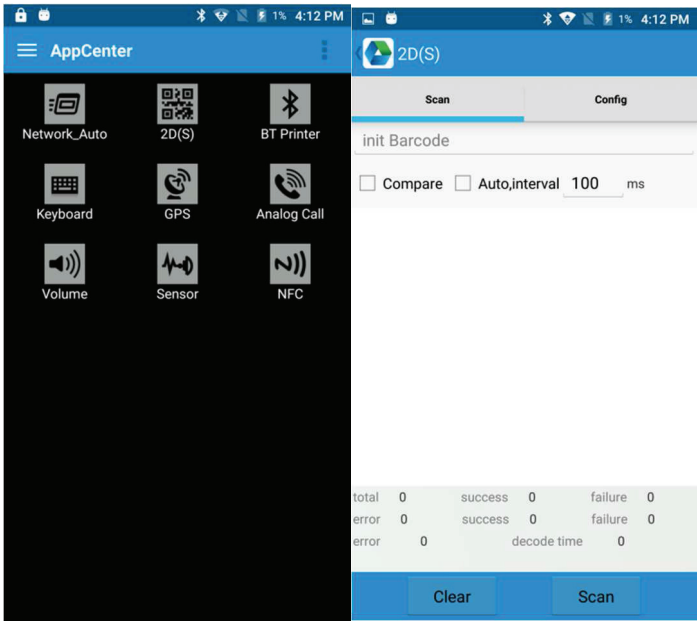
1. Click contacts to open contacts list.
2. Click icon  to add new contacts.
3. Click icon  to import/export contacts.

2.3 SMS and MMS

1. Click  to open message window.
2. Click  to input message receiver and contents.
3. Click  to send out messages.
4. Click  to add attachment pictures and videos.

Chapter 3 Barcode reader-writer

1. In App Center, to open 2D barcode scan test.
2. Press “SCAN” button or click scan key to start scanning, the parameter “Auto interval” can be adjusted.



Caution: Please scan codes in correct way otherwise the scanning will be failed.

1D barcode:

Correct

Incorrect

2D code:

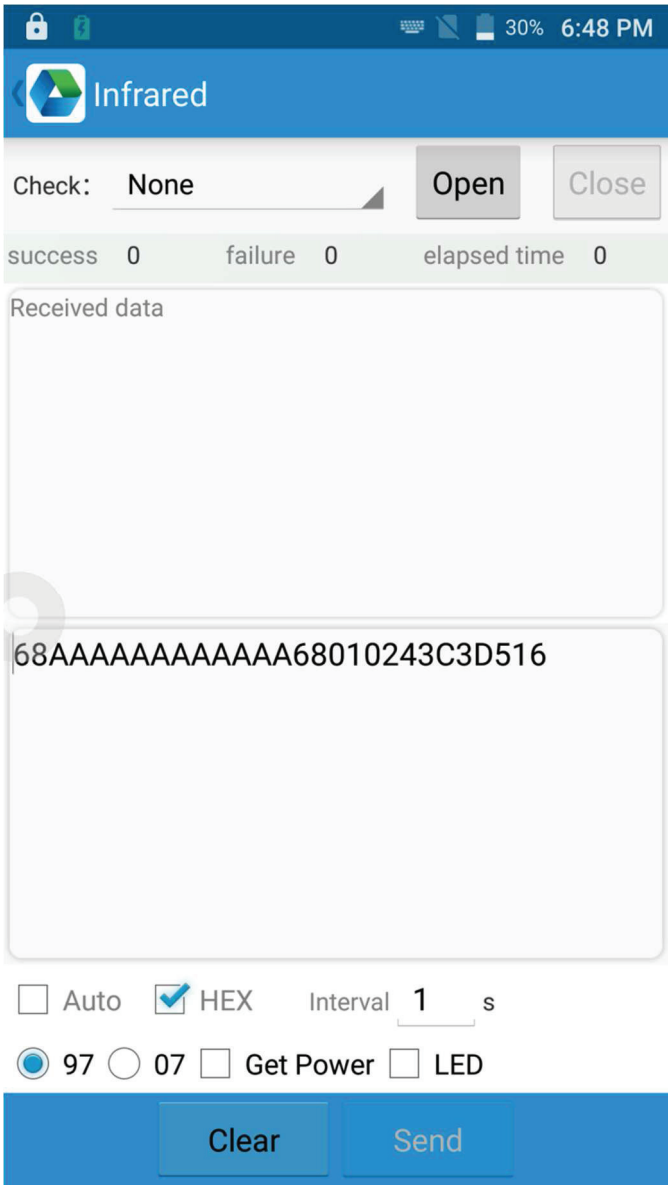
Correct

Incorrect

Max. radiant power: 0.6mW
Wave length: 655nM
IEC 60825-1 (Ed.2.0).
21CFR 1040.10 and 1040.11 standard.

Chapter 4 Infrared read-write function

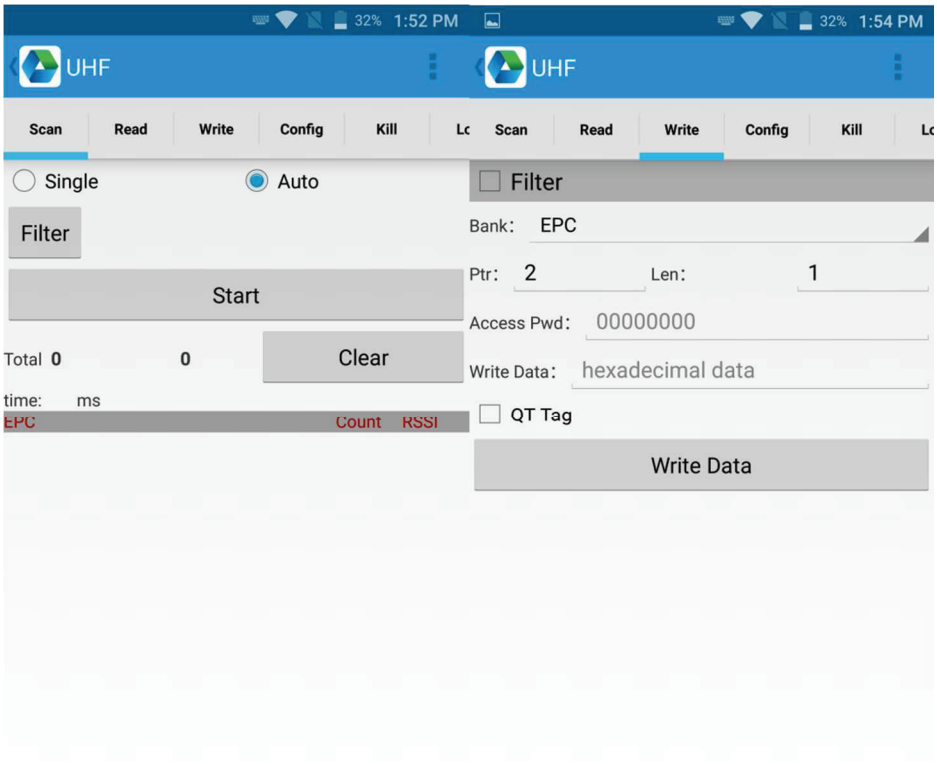
1. Open infrared function in App Center.
2. Click button “Open” to start infrared scanning function. Click “LED” for infrared scanning aim assist. Depending on different application status to compile different commands to realize infrared read and write function.

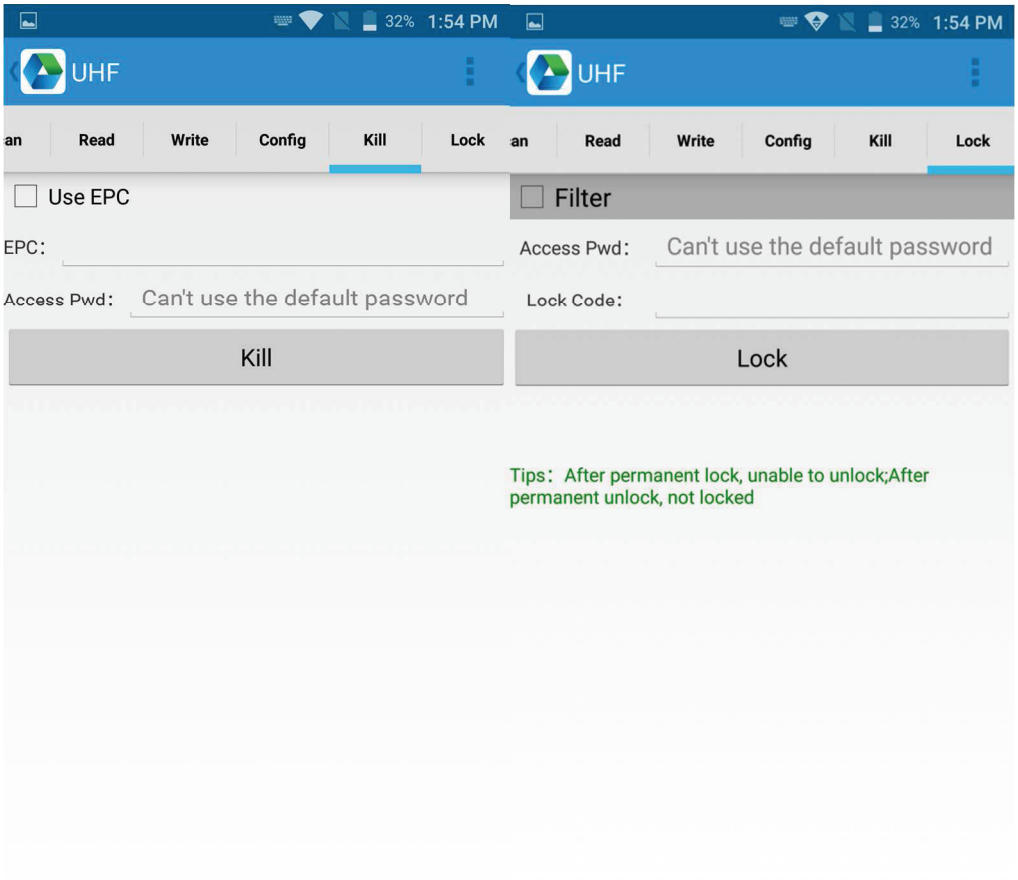


Chapter 5 RFID reader

5.1 UHF

Click App Center, open “UHF” to scan, read and write tag information, also kill and lock tags.

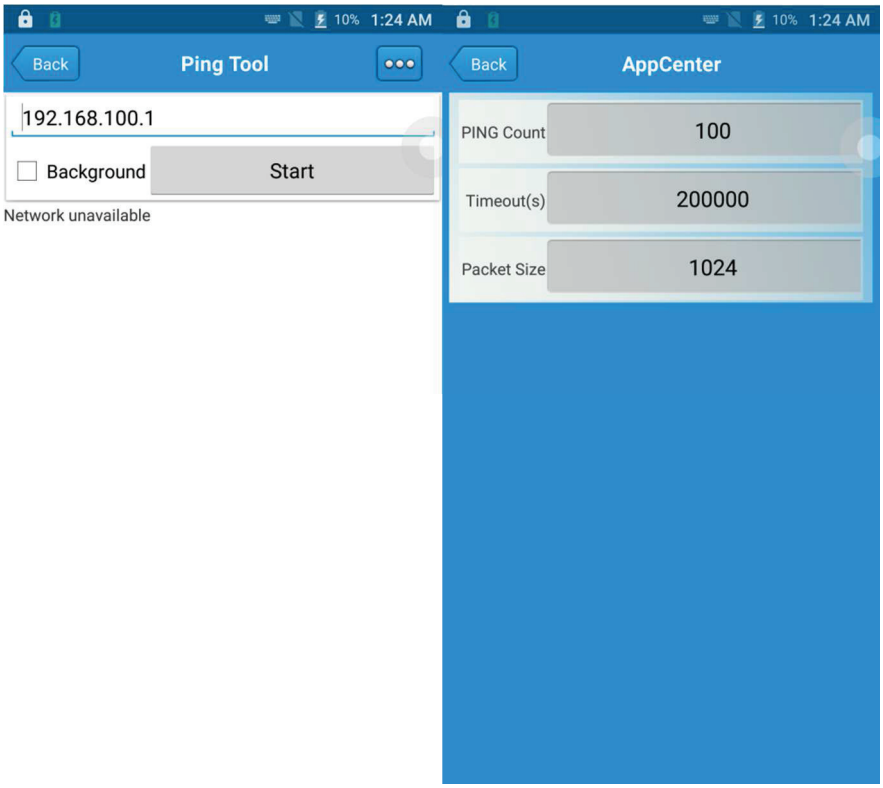



32% 1:54 PM
UHF
an
Read
Write
Config
Kill
Lock
Use EPC
EPC:
Access Pwd:
Can't use the default password
Kill
32% 1:54 PM
UHF
an
Read
Write
Config
Kill
Lock
Filter
Access Pwd:
Can't use the default password
Lock Code:
Lock
Tips: After permanent lock, unable to unlock;After permanent unlock, not locked

Chapter 6 Other functions

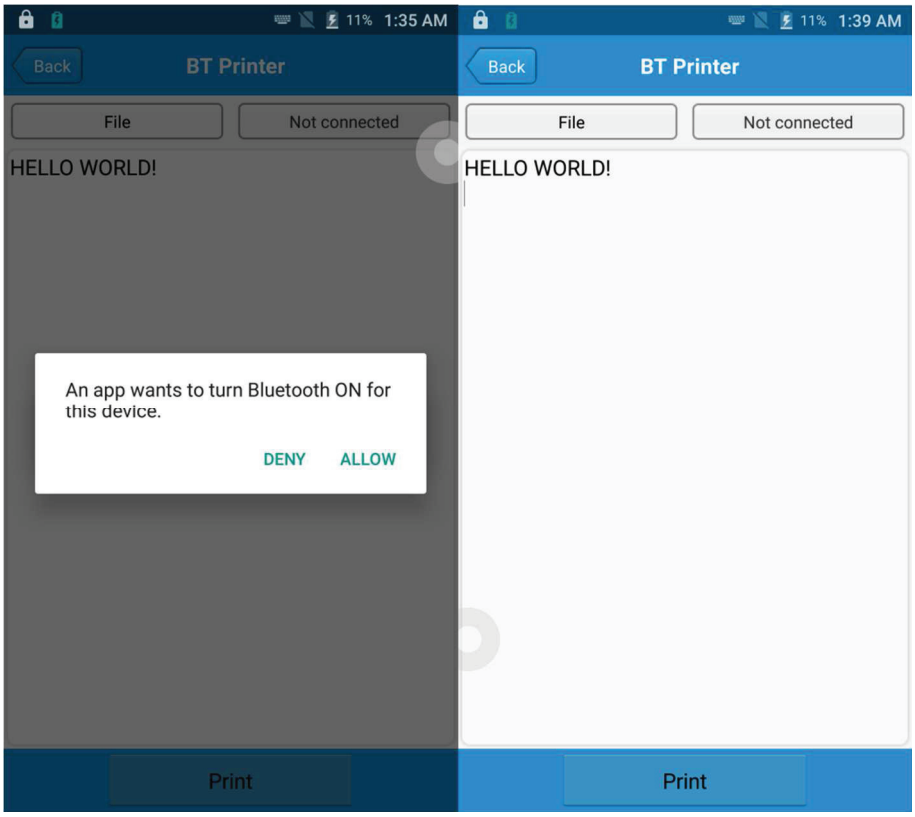
6.1 PING tool

1. Open “PING” in App Center.
2. Setup PING parameter and select external/internal address.



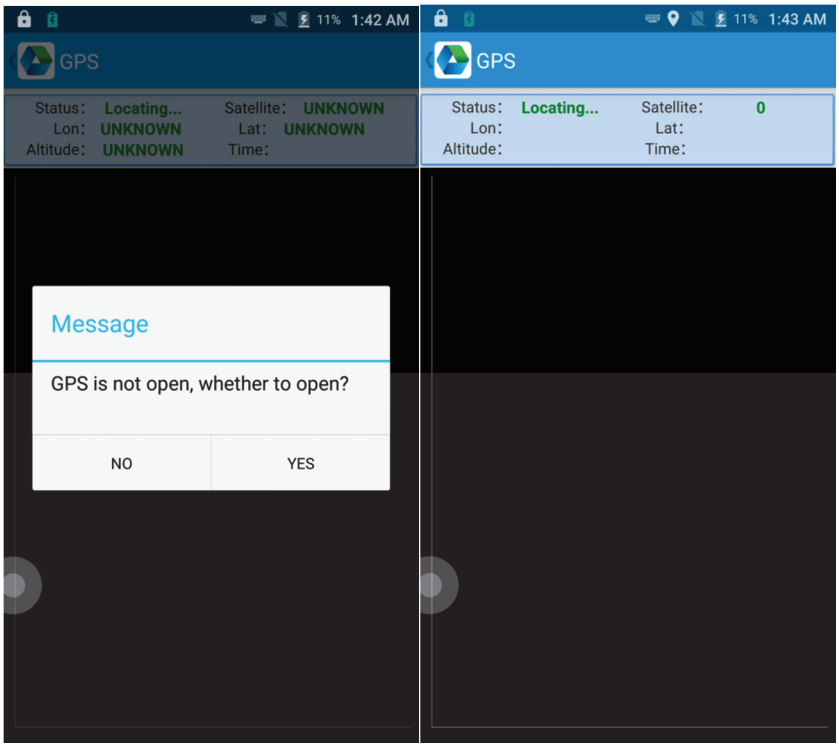
6.2 Bluetooth

1. Open “BT Printer” in App Center.
2. In the list of detected devices, click the device that you want to pair.
3. Select printer and click “Print” to start printing contents.



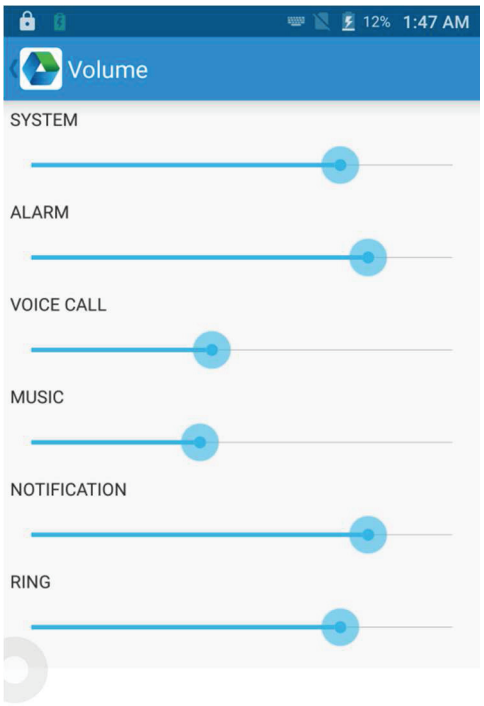
6.3 GPS

1. Click “GPS” in App Center to open GPS test.
2. Setup GPS parameters to access GPS information.



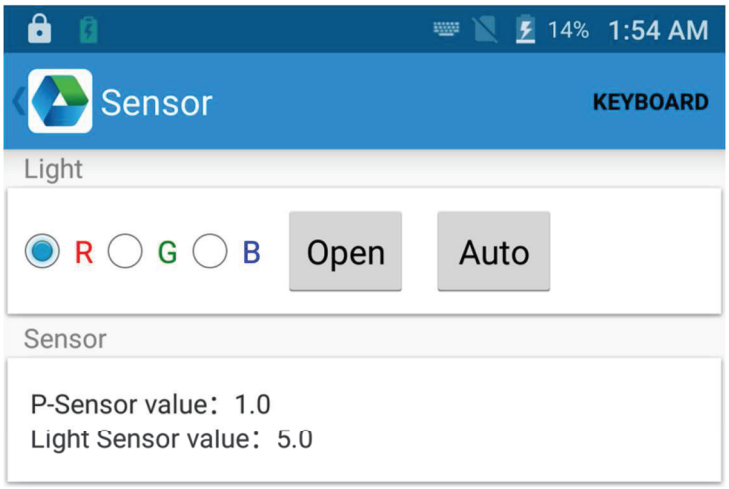
6.4 Volume setup

1. Click “Volume” in App Center.
2. Setup volume by requirements.



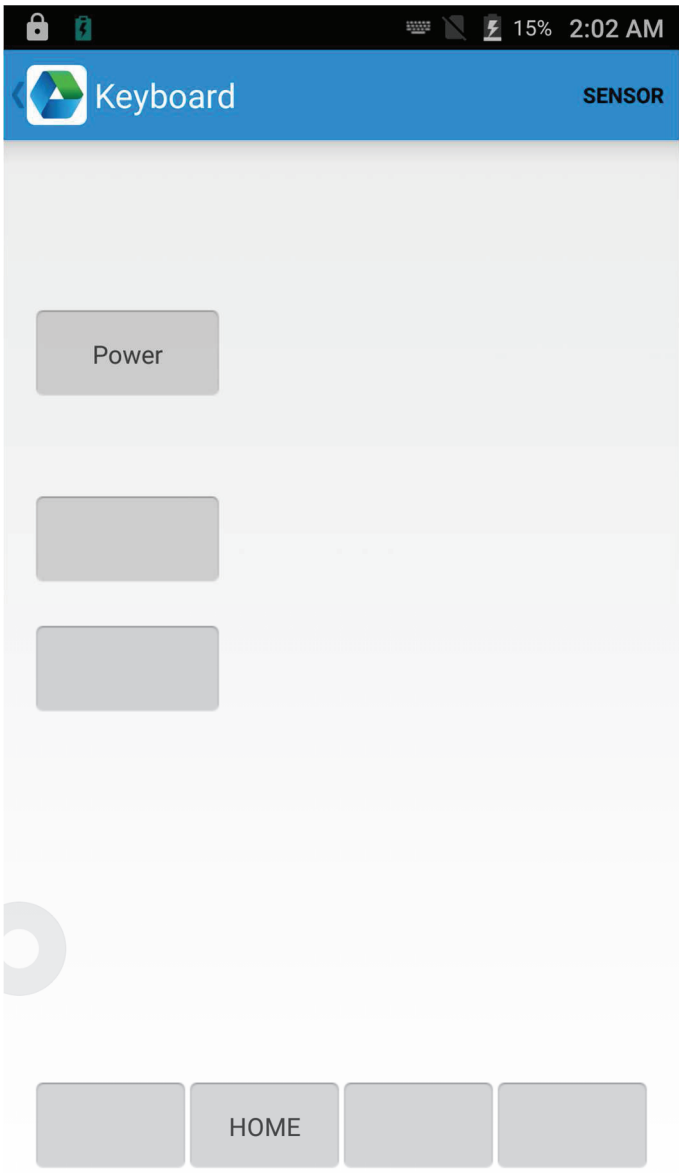
6.5 Sensor

1. Click “Sensor” in App Center.
2. Setup the sensor by requirements.



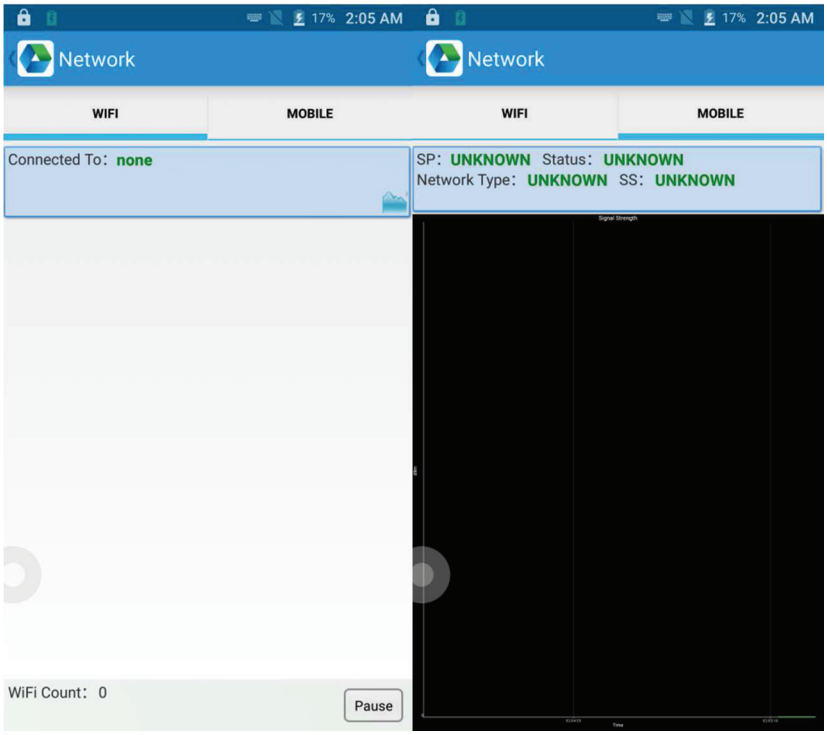
6.6 Keyboard

1. Click “Keyboard” in App Center.
2. Setup and test the main value of the device.



6.7 Network

1. Click “Network” in App Center.
2. Test WIFI/Mobile signal by requirements.



Chapter 7 Device characteristic

Physical characteristics

Size	164.2mm*80.0mm*24.3mm
Weight	654g (battery included)
Display	5.2 inch，IPS FHD 1920*1080P
Touch panel	4 main keyboards, 1 power button, 2 scan buttons, 1 multi-function button
Battery	Li-ion, rechargeable, 8000mAh
Expansion	Supports up to 32 GB Micro SD card
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card, PSAM supported
Audio	speaker, 2 microphones, voice call
Camera	13MP autofocus camera with flashlight

Performance

CPU	Cortex-A53 1.3GHz Quadcore
OS	Andriod 6.0
RAM	2GB RAM
Communication Interface	USB2.0, Micro-USB
ROM	16GB
Max.expansion	Supports up to 32 GB Micro SD card

User environment

Operating temp.	-20℃ to 50℃
Storage Temp.	-20℃ to 70℃
Humidity	5%RH - 95%RH non condensing
Sealing	IP65, IEC sealing standard
Drop specification	Multiple 1.5m/4.0ft drops to the concrete

Communication

WAN	**EU:** 2G: 850/900/1800/1900MHz 3G: 850/900/1900/2100MHz 4G: B1, B3, B5, B7, B8, B20, B40 **US:** 2G: 850/900/1800/1900MHz 3G: 850/900/1700/1900MHz 4G: B2, B4, B7, B12, B17 **CN:** 2G: 900/1800MHz 3G: 900/1900/2000/2100MHz 4G: B1, B3, B5, B38, B39, B40, B41
WLAN	IEEE802.11a/b/g/n, embedded antenna, 5 Gigabit WIFI max. power 14.69 dBm
WPAN	Bluetooth 4.0

Data collection

Barcode scanning	2D CMOS scanning engine(Honeywell N6603/Zebra SE4710)
RFID	UHF

Developing Environment

SDK	software develop kit
Language	Java
Develop	Eclipse/Android Studio