SHENZHEN CHAINWAY INFORMATION TECHNOLOGY CO.,LTD

Mobile Terminal with Printer

C75 User Manual

Content

Content 1
Statement 3
Chapter 1 Product Intro 5
1.1 Intro 5
1.2 Precaution before using battery 6
1.3 Charger 7
1.4 Notes 8
Chapter 2 Installation instructions 9
2.1 Appearance 9
2.2 Install Micro SD and SIM cards 10
2.3 Battery charge 11
2.4 Buttons and function area display 12
Chapter 3 Call function 13
3.1 Calling numbers 13
3.2 Contacts 13
3.3 SMS and MMS 13
Chapter 4 Barcode reader-writer 14
Chapter 5 Infrared read-write function 16
Chapter 6 RFID reader 17
6.1 NFC 17
Chapter 7 Other functions 18
7.1 PING tool 18
7.2 Bluetooth 19

7.3 GPS 20
7.4 Volume setup 21
7.5 Sensor 22
7.6 Keyboard 23
7.7 Network 24
7.8 Keyboard emulator 25
Chapter 8 Device characteristic 26
Restrictions: 28

Statement

2013 by ShenZhen Chainway Information Technology Co., Ltd. All rights reserved.

No part of this publication may be reproduced or used in any form, or by any electrical or mechanical means, without permission written from Chainway. This includes electronic or mechanical means, such as photocopying, recording, or information storage and retrieval systems. The material in this manual is subject to change without notice.

The software is provided strictly on an “as is” basis. All software, including firmware, furnished to the user is on a licensed basis. Chainway grants to the user a non-transferable and non-exclusive license to use each software or firmware program delivered hereunder (licensed program). Except as noted below, such license may not be assigned, sublicensed, or otherwise transferred by the user without prior written consent of Chainway. No right to copy a licensed program in whole or in part is granted, except as permitted under copyright law. The user shall not modify, merge, or incorporate any form or portion of a licensed program with other program material, create a derivative work from a licensed program, or use a licensed program in a network without written permission from Chainway.

Chainway reserves the right to make changes to any software or product to improve reliability, function, or design.

Chainway does not assume any product liability arising out of, or in connection with, the application or use of any product, circuit, or application described herein.

No license is granted, either expressly or by implication, estoppel, or otherwise under any Chainway intellectual property rights. An implied license only exists for equipment, circuits, and subsystems contained in Chainway products.

Chapter 1 Product Intro

1.1 Intro

C75 is a devoted handheld computer that offers mobile printing capabilities. The thermal printer supports various printer engines and prints labels and receipts. Built-in dual slots are for PSAM cards to encrypt data. Portable and durable, this device is the perfect multi-use tool for your advanced data capture and mobility needs in retail, healthcare, parking, etc.

1.2 Precaution before using battery

- Do not leave battery unused for long time, no matter it is in device or inventory. If battery has been used for 6 months already, it should be check for charging function or it should be disposed correctly.
- The lifespan of Li-ion battery is around 2 to 3 years, it can be circularly charged for 300 to 500 times. (One full battery charge period means completely charged and completely discharged.)
- When Li-ion battery is not in used, it will continue discharge slowly. Therefore, battery charging status should be checked frequently and take reference of the related battery charging information on the manuals.
- Observe and record the information of a new unused and non-fully charged battery. On the basis of operating time of new battery and compare with a battery that has been used for long time. According to product configuration and application program, the operating time of battery would be different.
- Check battery charging status at regular intervals.
- When battery operating time drops below about 80%, charging time will be increased remarkably.
- If a battery is stored or otherwise unused for an extended period, be sure to follow the storage instructions in this document. If you do not follow the instructions, and the battery has no charge remaining when you check it, consider it to be damaged. Do not attempt to recharge it or to use it. Replace it with a new battery.
- Store the battery at temperatures between 5 °C and 20 °C (41 °F and 68 °F).

1.3 Charger

The charger type is GME10D-050200FGu, output voltage/current is 5V DC/2A. The plug considered as disconnect device of adapter.

1.4 Notes

Note: Using the incorrect type battery has danger of explosion. Please dispose the used battery according to instructions.

Note: Due to the used enclosure material, the product shall only be connected to a USB Interface of version 2.0 or higher. The connection to so called power USB is prohibited.

Note: The adapter shall be installed near the equipment and shall be easily accessible.

Note: The suitable temperature for the product and accessories is 0-10℃ to 50℃.

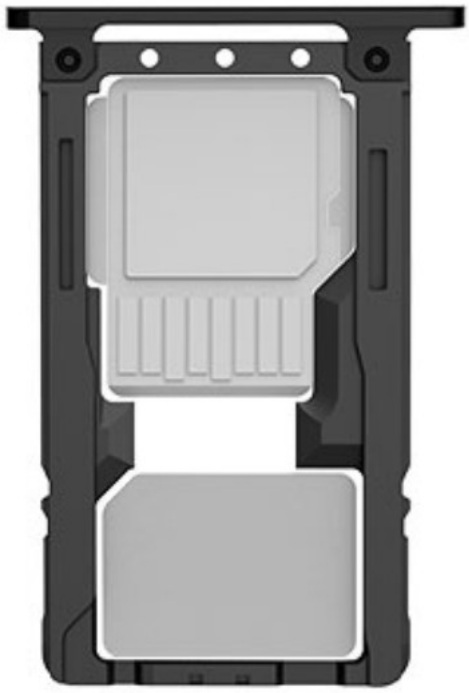
Note: CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

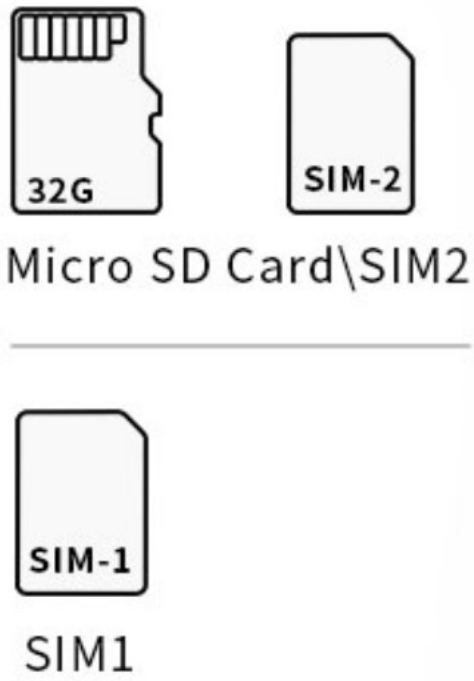
Chapter 2 Installation instructions

2.1 Appearance

2.2 Install Micro SD and SIM cards

The cards sockets are showing as follows:





2.3 Battery charge

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

2.4 Buttons and function area display

C75 has 4 side buttons and simple keyboard, NFC identification area 2D scanning module and HD camera.

Instructions：

Buttons		Description
Side Buttons	1 Power Button	Locates at left side of device, press power button to ON/OFF.
	2 Setting Button	Locates at left side of device, the setting button can be setup in software.
	3 SCAN Button	Locate at both sides of device

Chapter 3 Call function

3.1 Calling numbers

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

3.2 Contacts

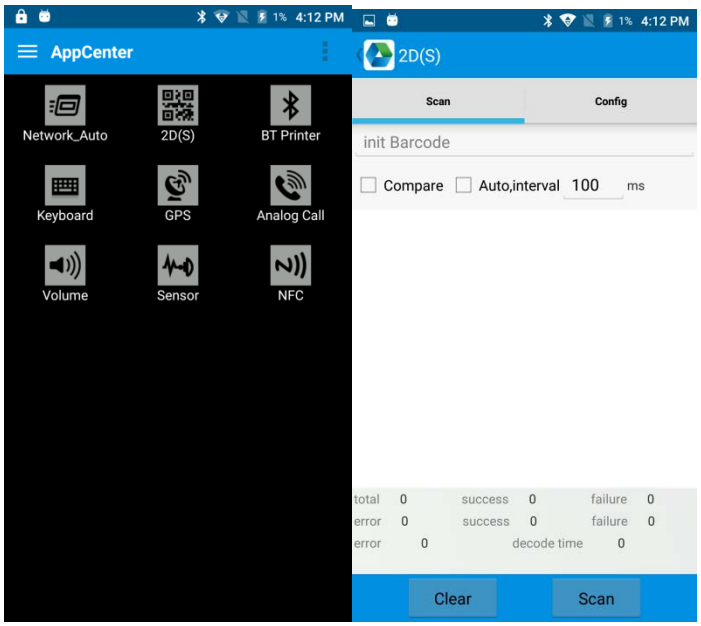
1. Click contacts to open contacts list.
2. Click icon to add new contacts.
3. Click icon to import/export contacts.

3.3 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 4 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

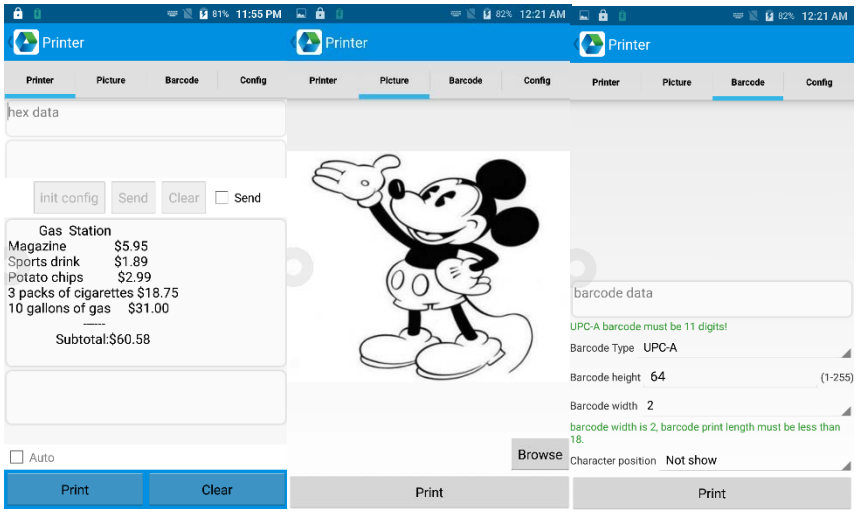
Wave length: 655nM

IEC 60825-1 (Ed.2.0).

21CFR 1040.10 and 1040.11 standard.

Chapter 5 Infrared read-write function

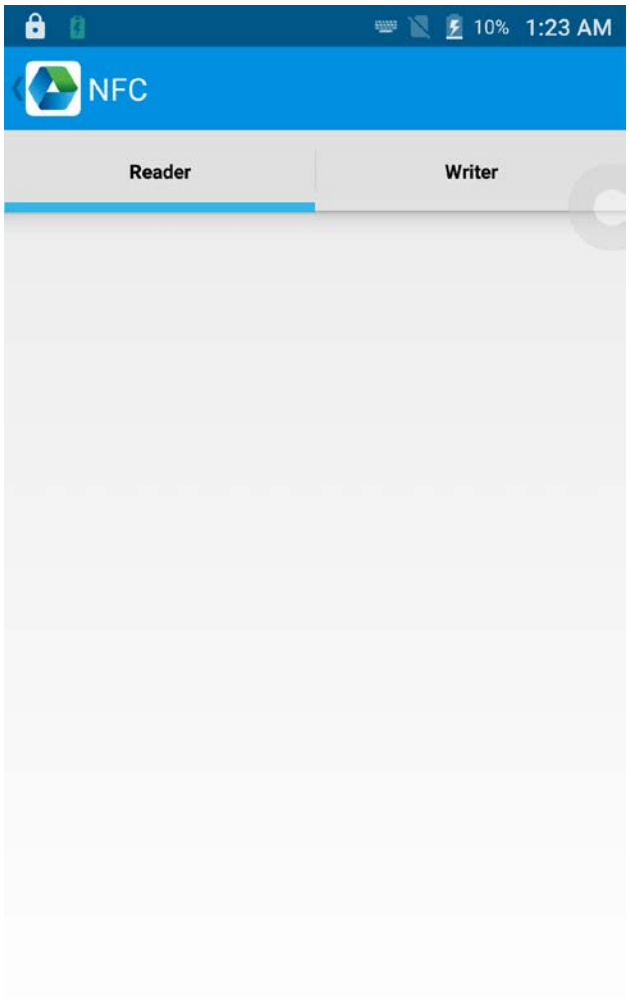
1. Open printer function in App Center.
2. Click “Print” to test printing function.
3. Save picture into internal storage or SD card directory and select “Picture” to print pictures.
4. Select “Barcode” and click to print barcode.



Chapter 6 RFID reader

6.1 NFC

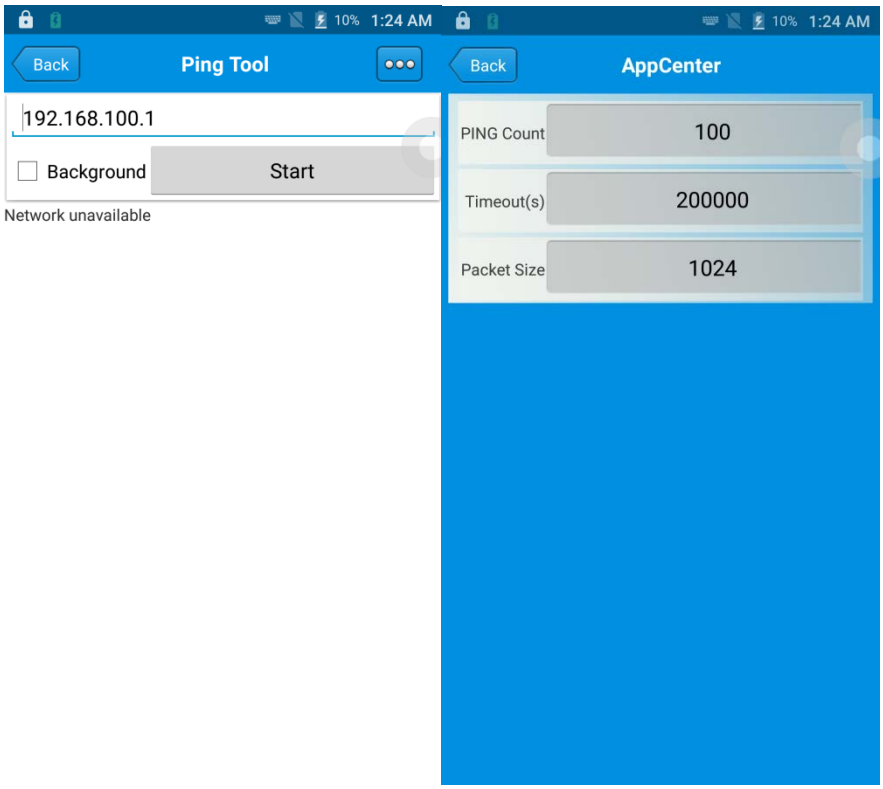
Click App Center, open “NFC” to read and write tag information.



Chapter 7 Other functions

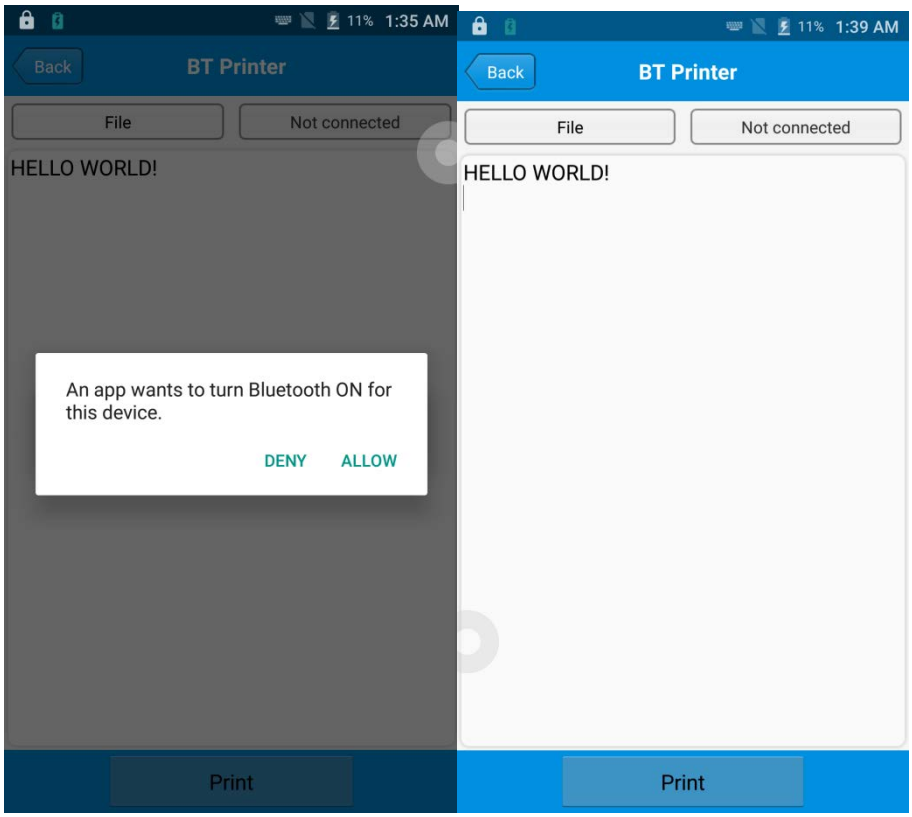
7.1 PING tool

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



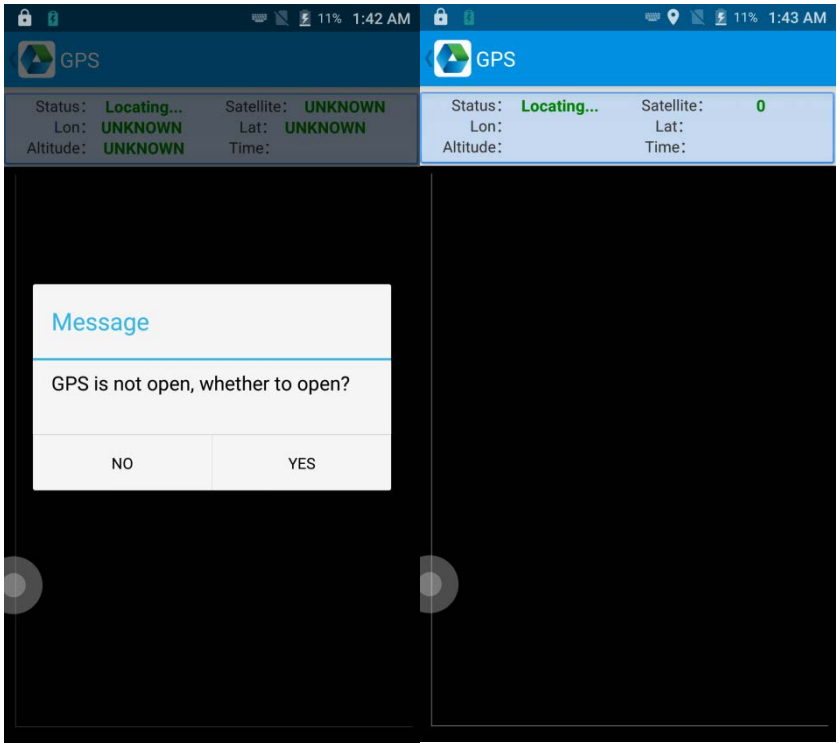
7.2 Bluetooth

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.



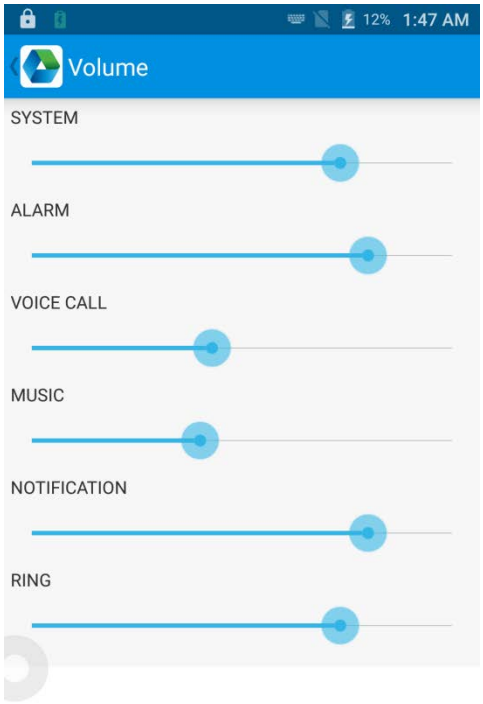
7.3 GPS

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



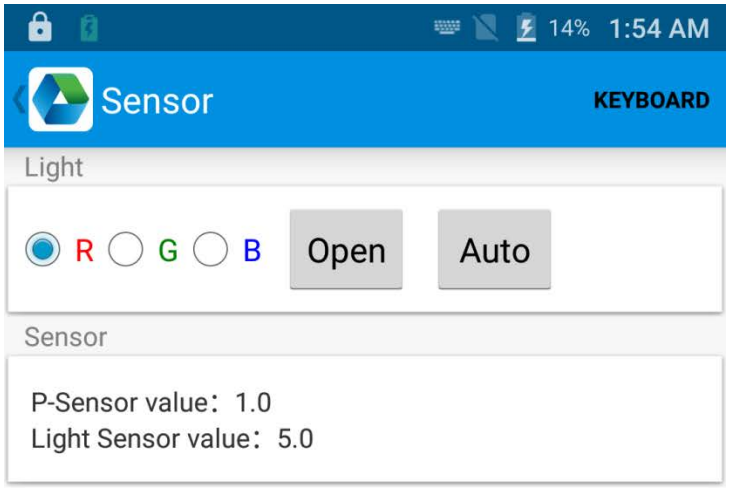
7.4 Volume setup

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



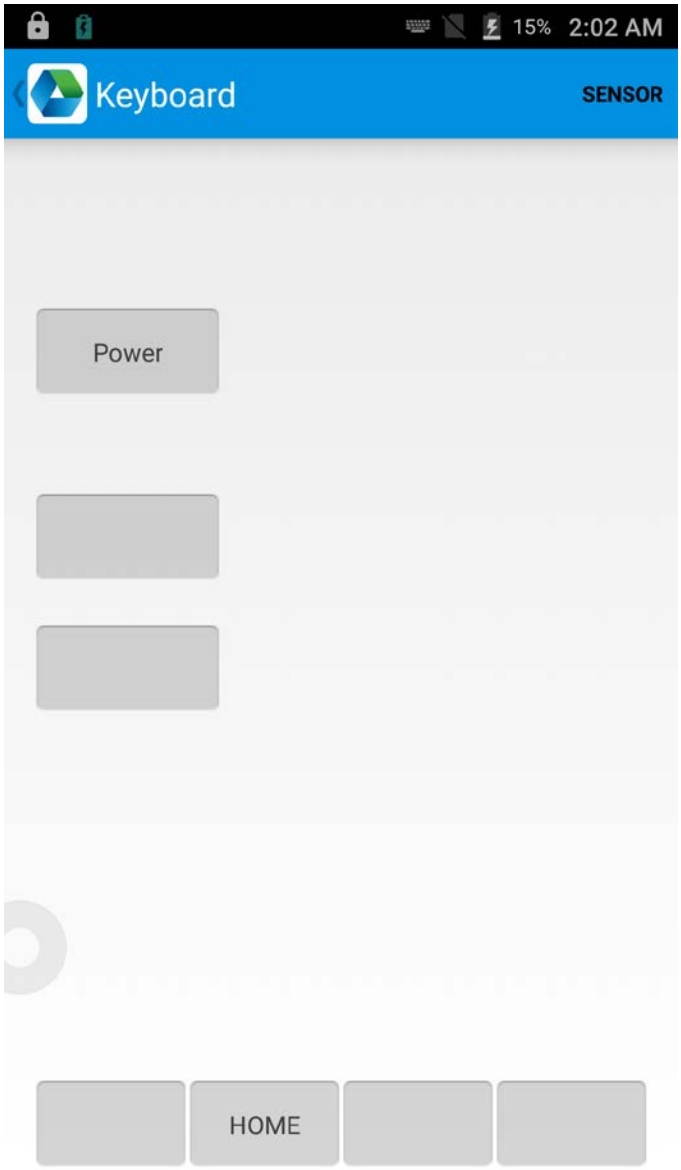
7.5 Sensor

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



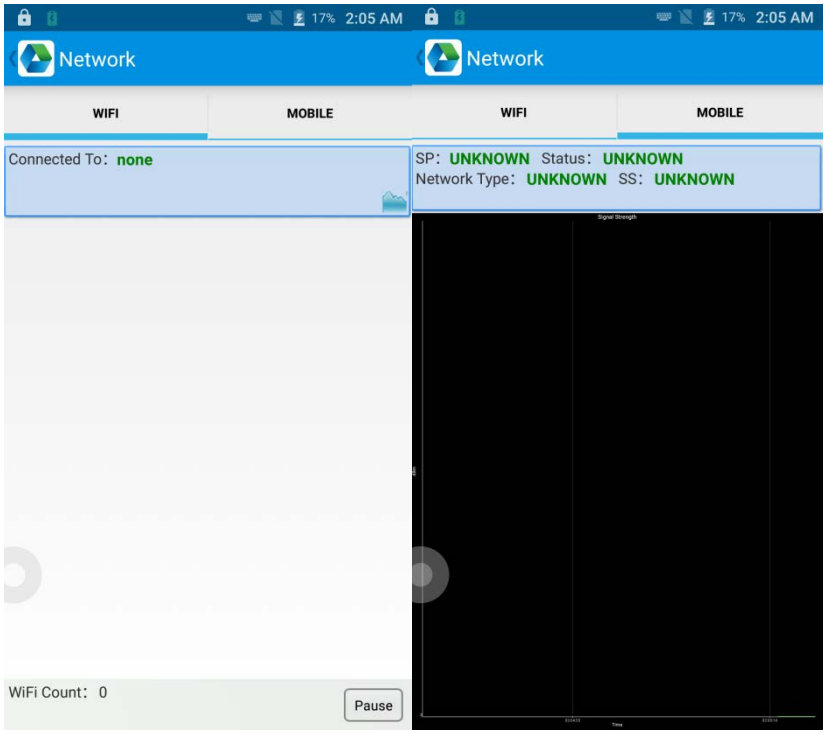
7.6 Keyboard

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



7.7 Network

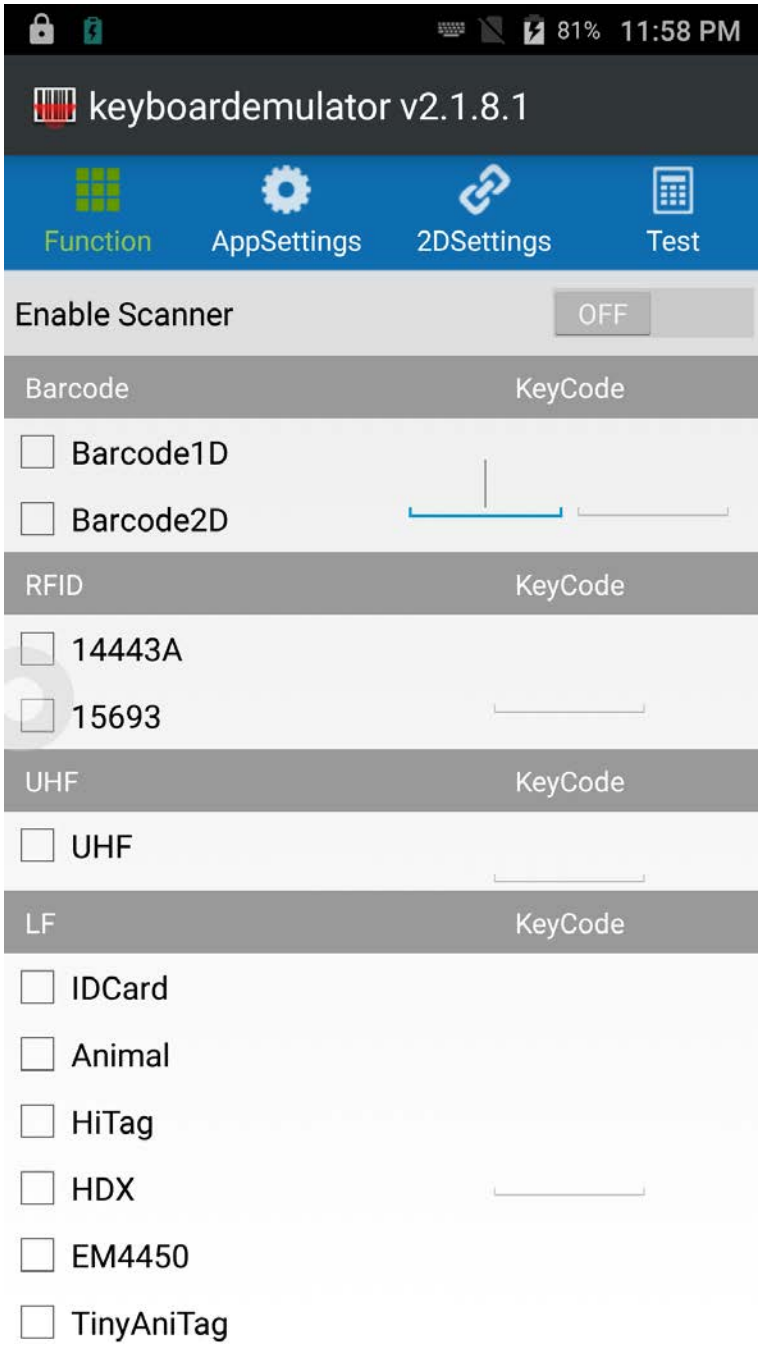
1. Click “Network” in App Center.
2. Test WIFI/Mobile signal by requirements.



7.8 Keyboard emulator

The keyboard emulator can be used in multiple operating background and output formats directly.

Please check Keyboard emulator manual for more details.



Chapter 8 Device characteristic

Physical characteristics

Size	186.89*83.99*35.04-49.49mm
Weight	507g/17.88oz
Display	5.2" IPS FHD 1920x1080P
Touch panel	Corning Gorilla Glass, multi-touch panel, gloves and wet hands supported
Battery	Li-ion, rechargeable, 8000mAh
Expansion Slot	2 PSAM slots at most (ISO7816 protocol), 1 slot for SIM card, 1 slot for SIM or TF card
Audio	Speaker, 2 microphones
Camera	13MP autofocus camera with flashlight
Keypad	3 side keys, 1 power key, numeric keyboard
Sensors	Gravity sensor, light sensor, proximity sensor, vibration motor

Performance

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

User environment

Operating temp.	-20℃ to 50℃
Storage Temp.	-40℃ to 70℃
Humidity	5%RH - 95%RH non condensing
Sealing	IP65, IEC sealing standard
Drop specification	Multiple 1.2m/3.9ft drops to the concrete

Communication

WAN	US: 2G: 850/1900/MHz 3G: 850/1900/1700MHz 4G: B2, B4, B7, B12, B17
WLAN	IEEE802.11 a/b/g/n, 2.4G/5G dual-band, internal antenna
WWAN (Others)	Depending on the country's ISP

Thermal Printer

Rate (mm/s)	85
Image Size (pixel)	384 dots
Paper Width (mm)	58

Data collection

Barcode scanning	2D scanning engine(Honeywell N6603/Zebra SE4710)
RFID	NFC 13.56Mhz

Developing Environment

SDK	Chainway software develop kit
Language	Java
Develop	Eclipse/Android Studio

Restrictions:

AT	BE	BG	HR	CY	CZ	DK
EE	FI	FR	DE	GR	HU	IE
IT	LV	LT	LU	MT	NL	PL
PT	RO	SK	SI	ES	SE	UK

This device is restricted to indoor use where operated in the European Community using frequency in 5150MHz-5350MHz to reduce the potential for interference.

FCC statements:

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

During SAR testing, this device is set to transmit at its highest certified power

level in all tested frequency bands, and placed in positions that simulate RF

exposure in usage near the body with the separation of 10 mm. Although the

SAR is determined at the highest certified power level, the actual SAR level of

the while operating can be well below the maximum value. This is because

the device is designed to operate at multiple power levels so as to use only

the power required to reach the network. In general, the closer you are to a

wireless base station antenna, the lower the power output.

FCC Radiation Exposure Statement

. This device was tested for typical body - worn operations with the back of the handset kept 10mm from the body.

To maintain compliance with FCC RF exposure requirements, use accessories that maintain a 10 mm separation distance between the user's body and the back of the handset. The use of belt clips, holsters and similar accessories should not contain metallic components in its assembly. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

RF Exposure Information(SAR)

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device

Types C75 (FCC ID: 2AC6AC75) has also been tested against this SAR limit.

The highest SAR value reported under this standard during product certification for use when properly worn on the body is0.655 W/kg and for head is 0.479 W/kg.