SHENZHEN CHAINWAY INFORMATION TECHNOLOGY CO., LTD

V600 User Manual

2017-10-25

Contents

Statement

Chapter 1 Introduction

Chainway V600 is a fixed vehicle computer with superior and reliable performance. Featuring 4G LTE network, 2.4G & 5G dual-band Wi-Fi, ultrafast Quadcore processor, GPS & BDS, two-channel external camera,5MP autofocus camera, fingerprint and face recognition, OBD data collection, Bluetooth 4.0 as well as biometrics, supporting calls, SMS, voice and recording functions, it can fully realize the overall management of driving school vehicles, school buses, taxis, buses, trucks etc, effectively ensuring traffic safety.

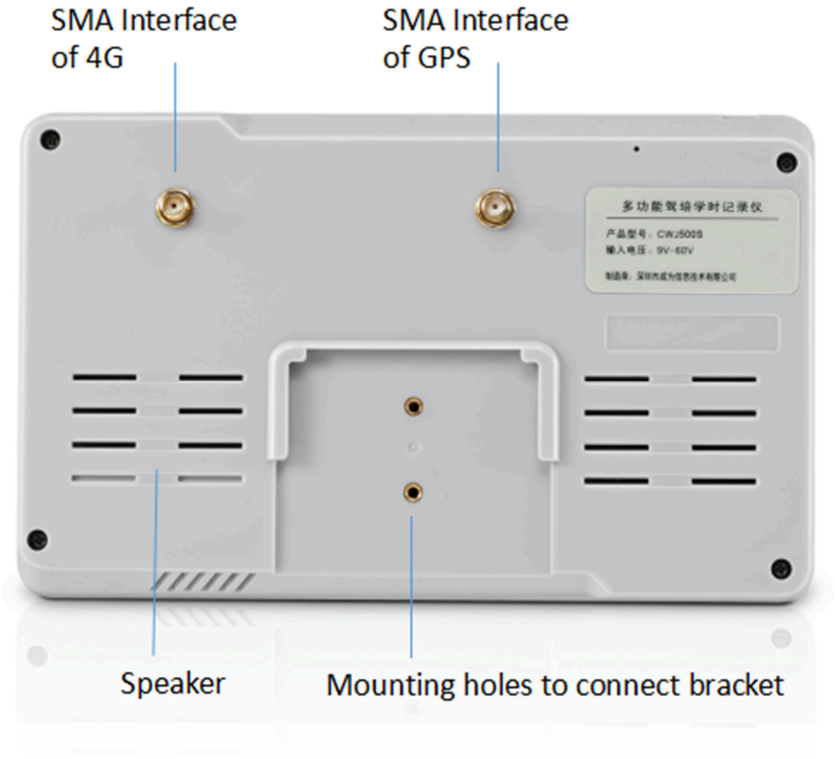
Chapter 2 Installation

2.1 Extrinsic feature

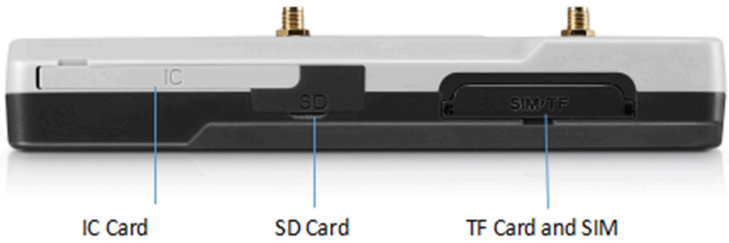
V600 Extrinsic feature and interface are showed as below:

Front:

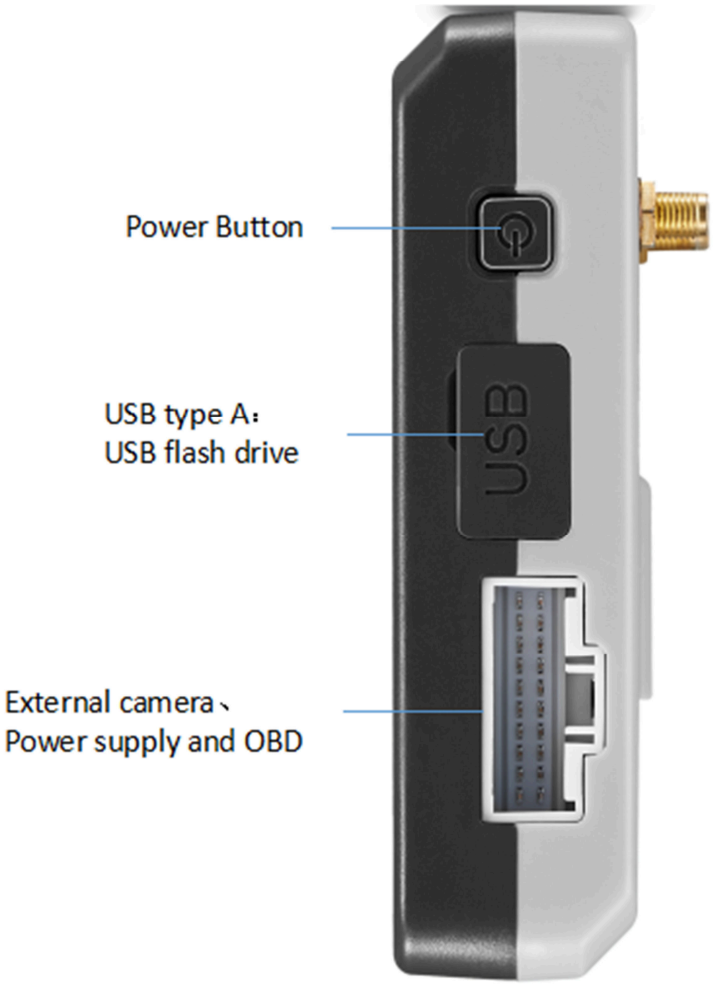
Back：


SMA Interface of 4G
SMA Interface of GPS
Speaker
Mounting holes to connect bracket

Top：


IC
SD
SIM/TF
IC Card
SD Card
TF Card and SIM

Right:


Power Button
USB type A：
USB flash drive
External camera、
Power supply and OBD
USB

2.2 SIM card and Micro SD card installation

Refer to top picture in 2.1, SIM card and Micro SD card slot is on the right side above. SIM card slot needs to be opened by niddle.

2.3 Power connection

Refer to right picture in section 2.1, connect one end to V600 device, the other end to vehicle to supply power.

Attention: Under development stage, the power cable can be connected to the DC adapter to supply power, please pay attention to VCC and GND connection difference via the sign on the cable.

2.4 Power Button

Refer to right picture 2.1, long press the power button for 3s to power on and off the device. Short press the power button to get the device into and out of sleep mode.

Chapter 3 Data Acquisition

V600 is able to gain its high data acquisition ability through RFID, fingerprint and camera：

- Data acquisition, identification and validation for passengers and drivers can be collected with fingerprint and IC card.
- Face recognition can be established by related software.
- Used in data acquisition for driving school vehicles, school buses, taxis, buses, trucks etc.

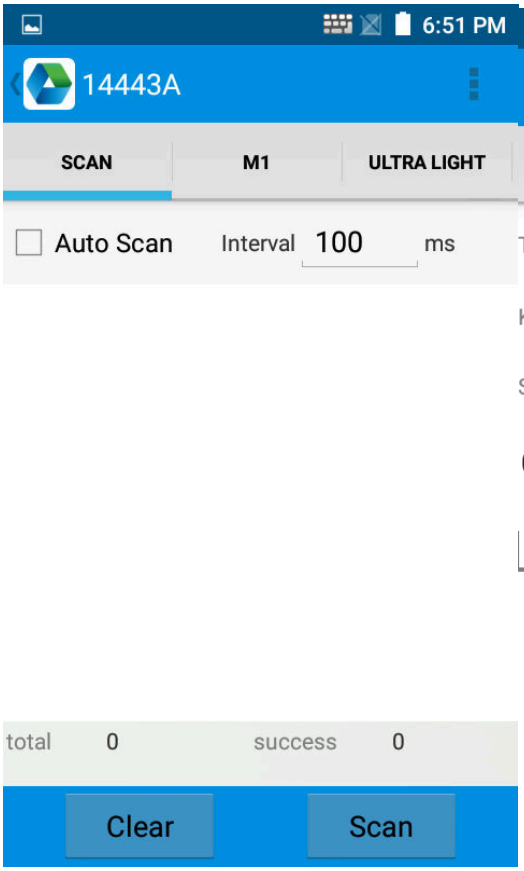
3.1 RFID

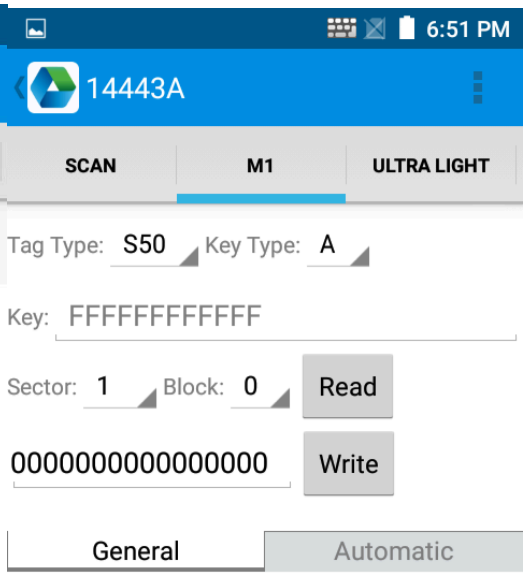
V600 equip with optional NXP HF module, it supports ISO14443A/B protocol.

3.1.1 14443A

1. Open App Center. The test demos are showed as below:

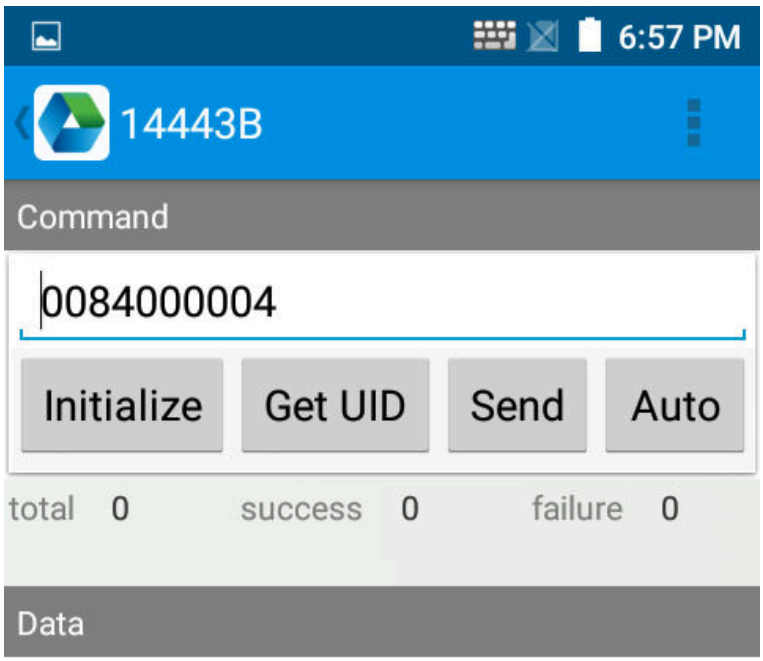
2. Press “14443A”，and press “scan” to start scanning.
3. The function supports M1 and ULTRA LIGHT read and write.





3.1.2 14443B

In Appcenter to open “14443B” function and UID infor can be scanned.



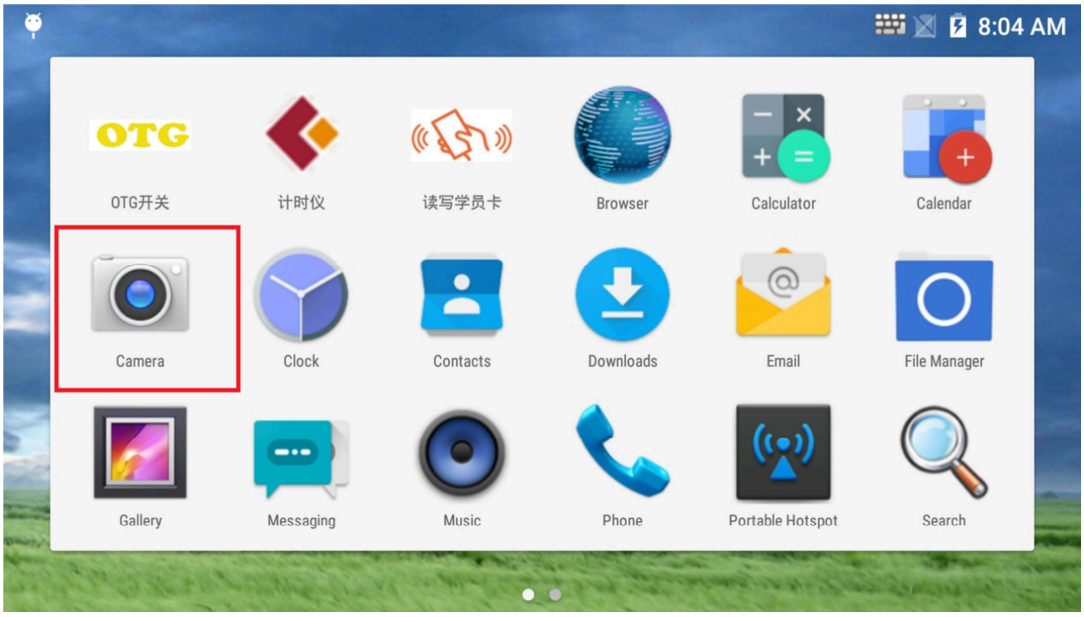
3.2 Fingerprint

1. Open the Fingerprint Demo in Appcenter.
2. Put the finger to the fingerprint module and set the ID/name of the template under “ACQUISITION”.
3. Put the finger to the fingerprint module properly and identify by ID/Name/Score under “IDENTIFICATION”.
4. The local templates can also be checked under “Data”.

3.3 Camera

3.3.1 Front Camera

Click icon “Camera” in the home page and test the front camera function:

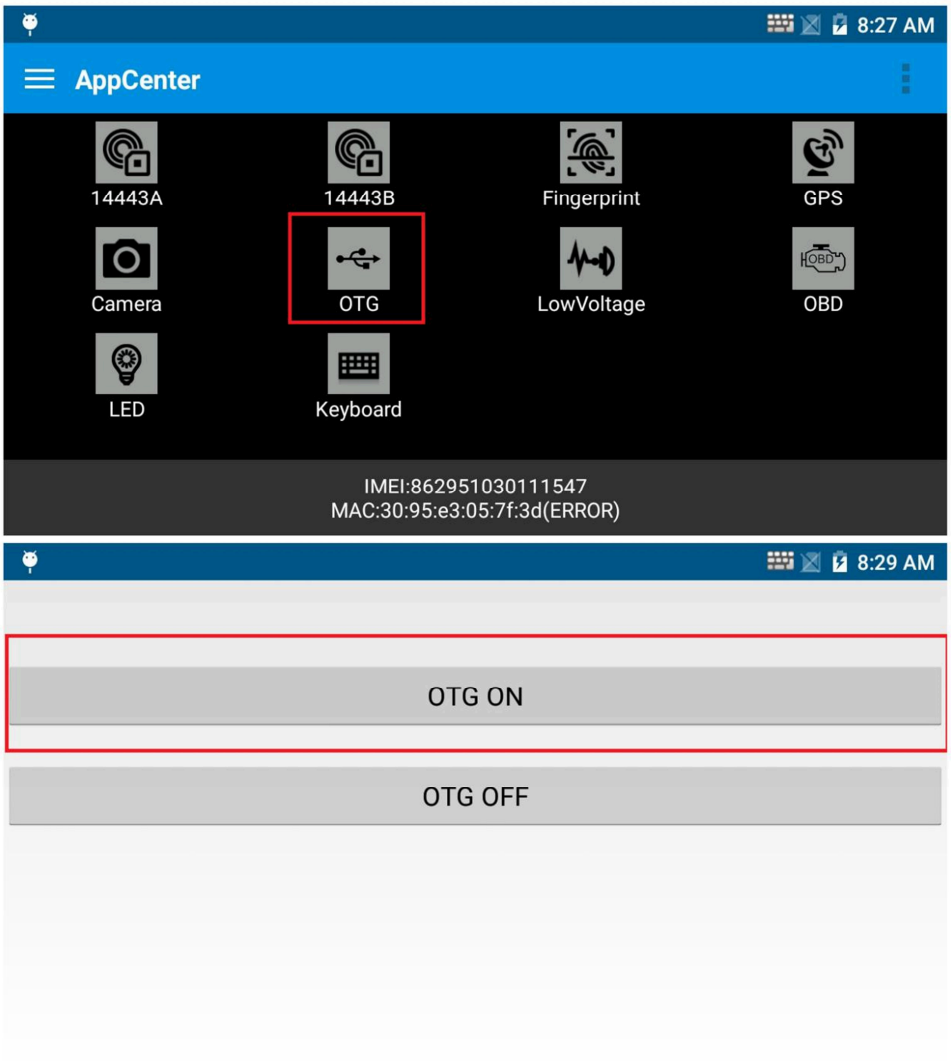


3.3.2 External Camera (optional)

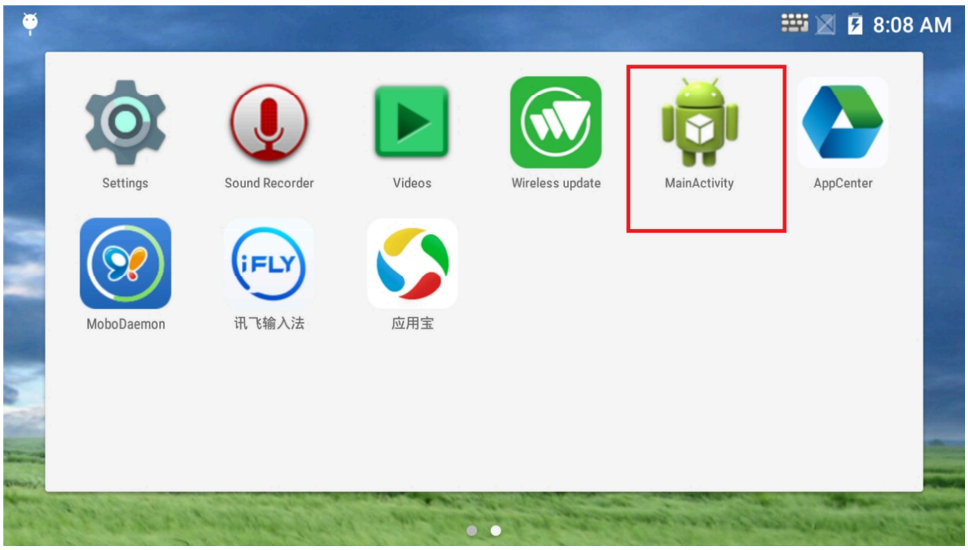
Connect the external camera to the extension cable to get external camera running, refer to picture below：

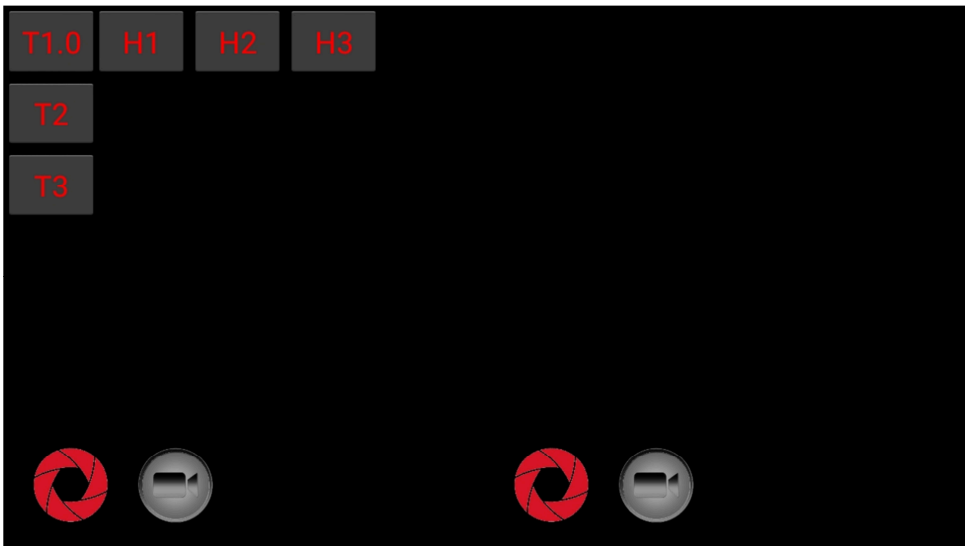
Demo and test:

1. Open OTG function in App center first.



2. Enter “Mainactivity” to and test the external camera function:





3.4 OBD

OBD with below functions:

- Accurately record the location, speed and fuel consumption, and trigger real time alarm.
- It helps analyze driving behaviors and give pertinent suggestions, saving traffic overheads.
- Professional vehicle fault diagnosis is realized to ensure road safety and prolong life span.

Connect OBD connector to vehicle, refer to picture below：

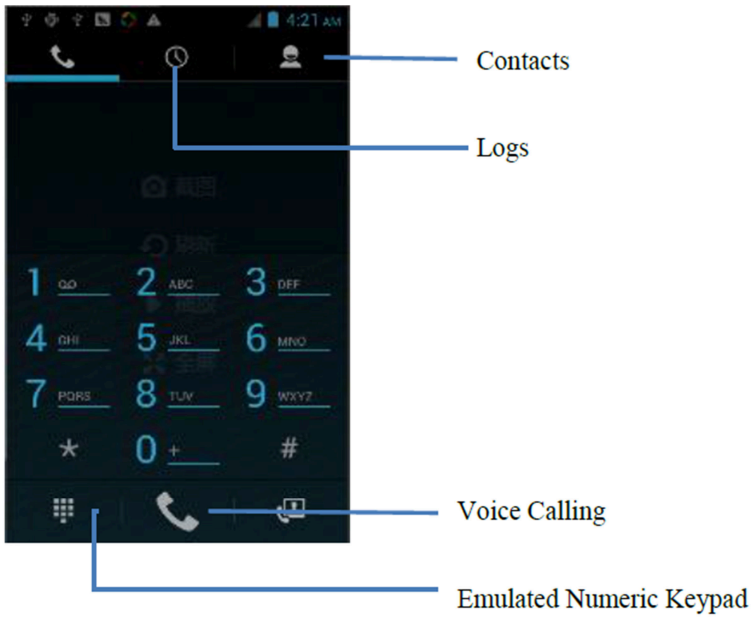
Chapter 4 Network Communication

Whether indoors or outdoors, V600 provides enterprises with anywhere, anytime real-time connectivity by Bluetooth, fast 4G LTE network and 2.4G & 5G Wi-Fi.

4.1 Phone

4.1.1 Phone Call

1. Click this icon. 
2. Click the number button to input the numbers.
3. Click the button to confirm and dial. 
4. Click the  to end the calling.

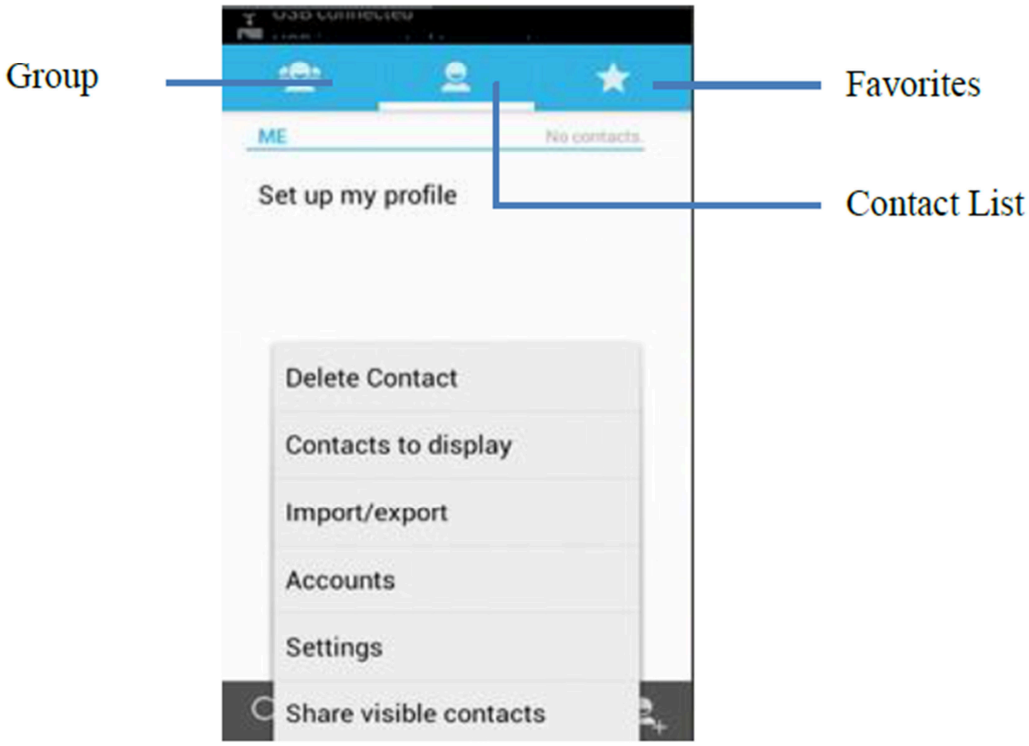


4.1.2 Contacts

1. Click “Contacts” to open the contacts list.

2. Click icon  to add the new contact.

3. Click icon  to import/export or delete the contact list.

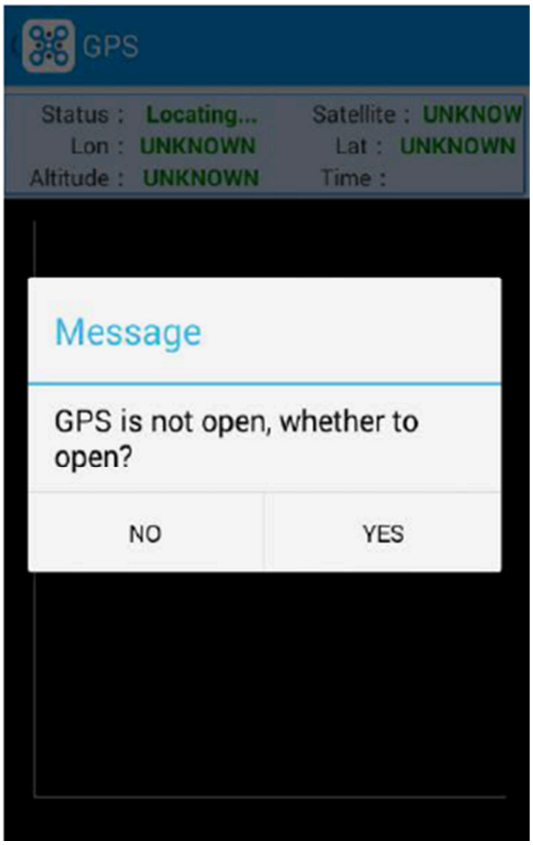


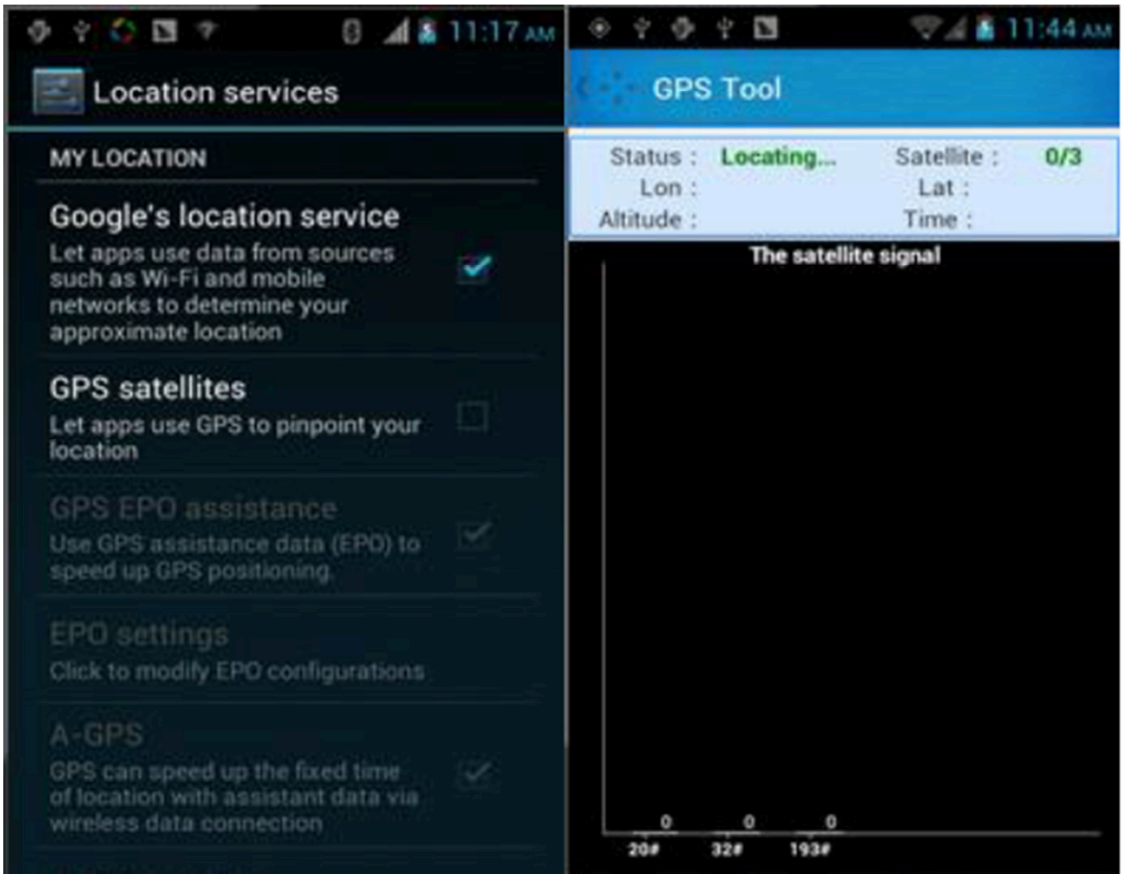
4.1.3 Messaging

1. Click icon  to open the message list.
2. Click icon  to input the content.
3. Click icon  to send the message.
4. Click icon  to add photos, videos.

4.2 GPS

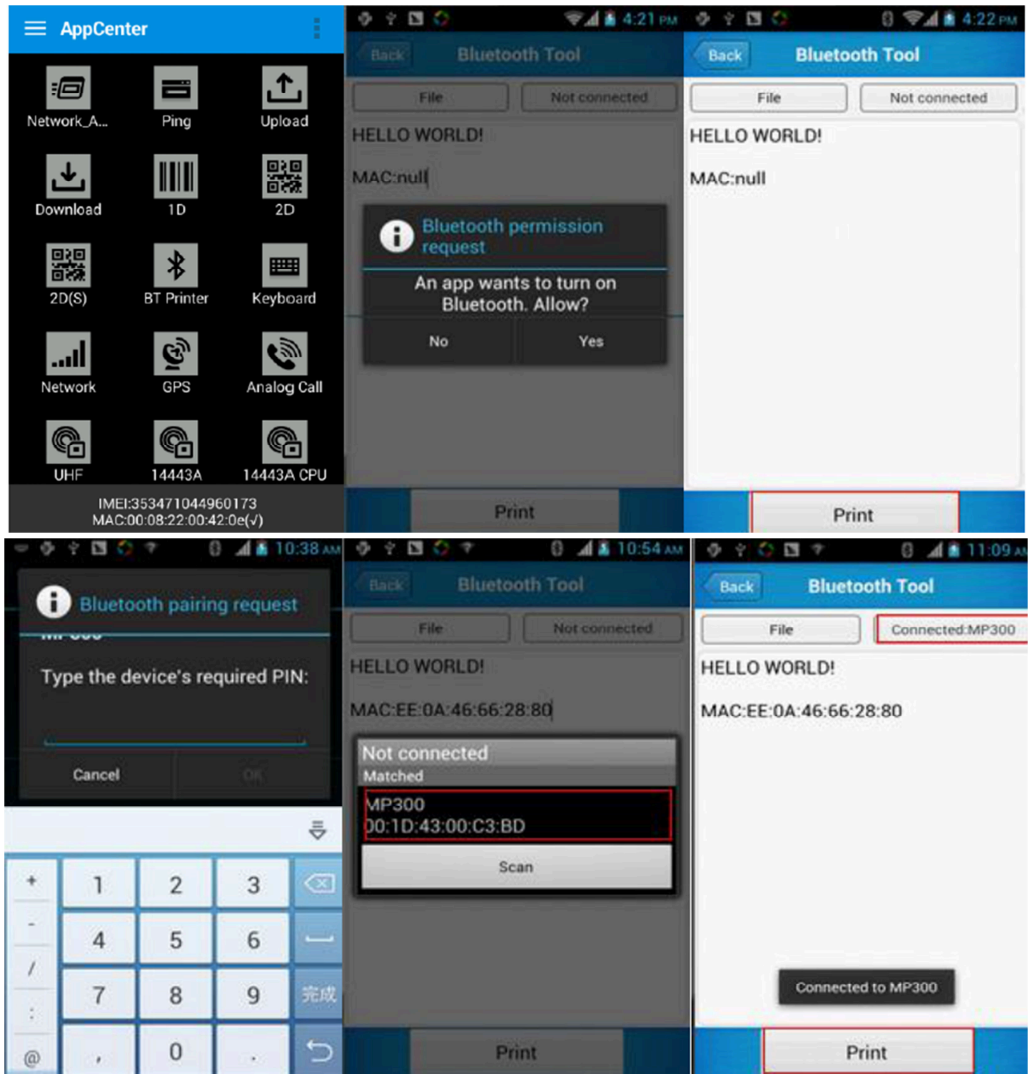
1. Open the GPS demo in App center and turn on GPS module.
2. Set the GPS parameters and get the GPS data information.




11:17 AM
Location services
MY LOCATION
Google's location service
Let apps use data from sources such as Wi-Fi and mobile networks to determine your approximate location
GPS satellites
Let apps use GPS to pinpoint your location
GPS EPO assistance
Use GPS assistance data (EPO) to speed up GPS positioning
EPO settings
Click to modify EPO configurations
A-GPS
GPS can speed up the fixed time of location with assistant data via wireless data connection
11:44 AM
GPS Tool
Status : Locating...
Satellite : 0/3
Lon :
Lat :
Altitude :
Time :
The satellite signal
0
0
0
20#
32#
193#

4.3 Bluetooth

1. Open the Bluetooth demo in App center and turn on the Bluetooth.
2. Input the content or select the file, then scan the nearby Bluetooth printer and pair them.
3. Select the printer and click “Print” to print.

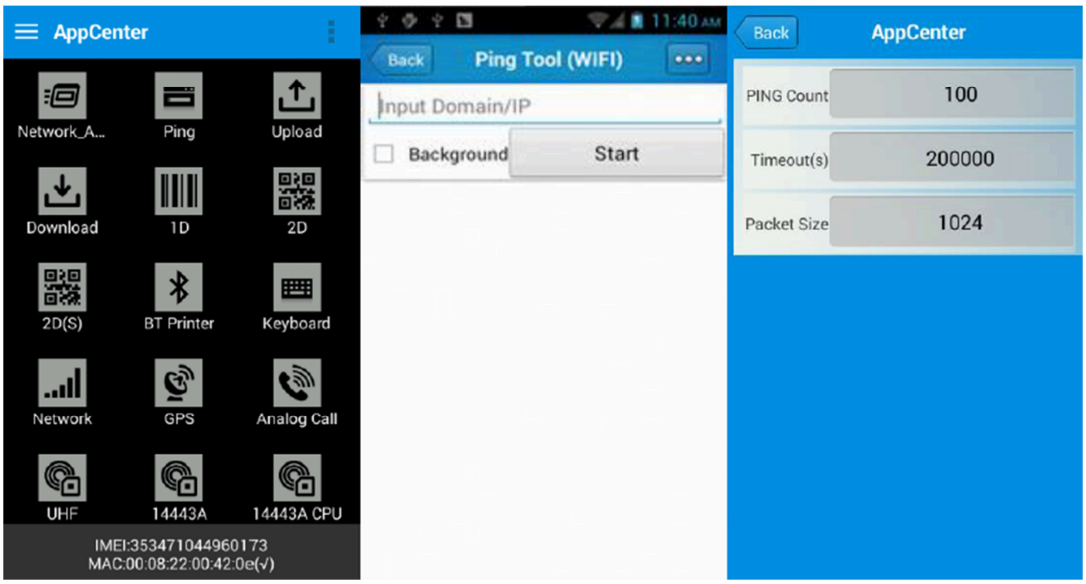


Chapter 5

5.1 PING

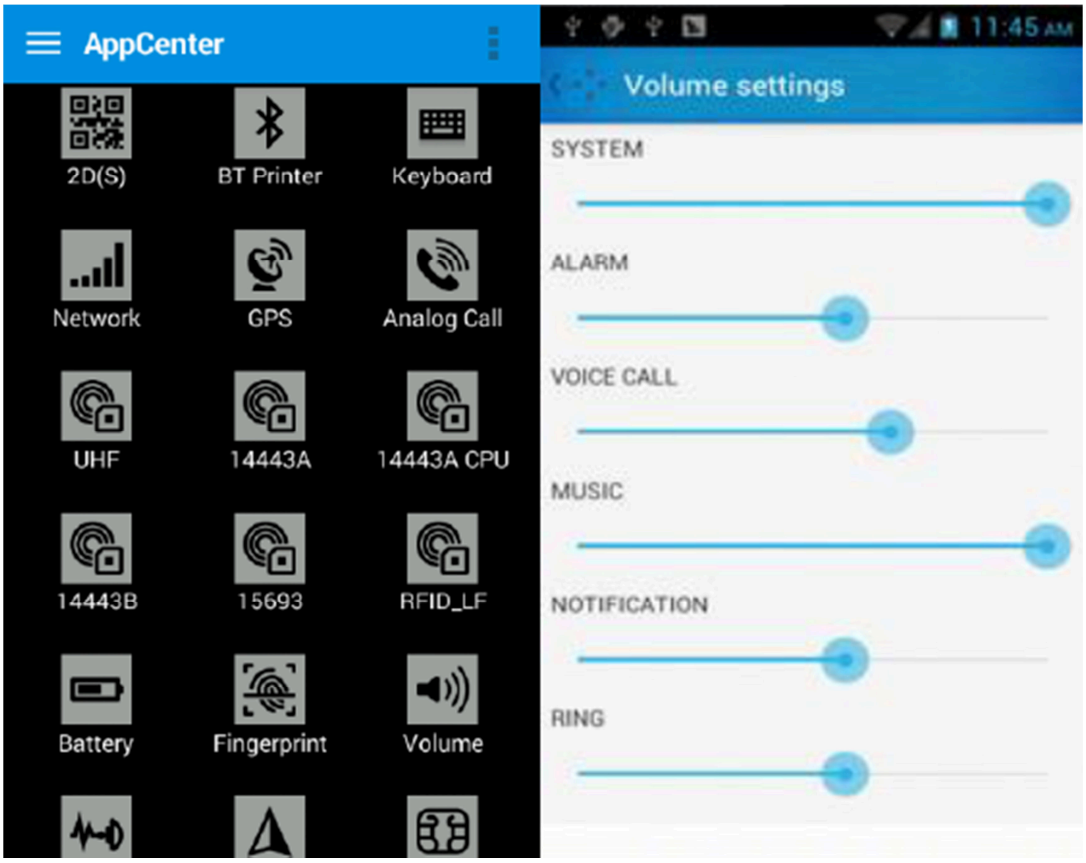
1. Open the Ping in App center.

2. Set the Ping parameters and select the internal/external addresses.



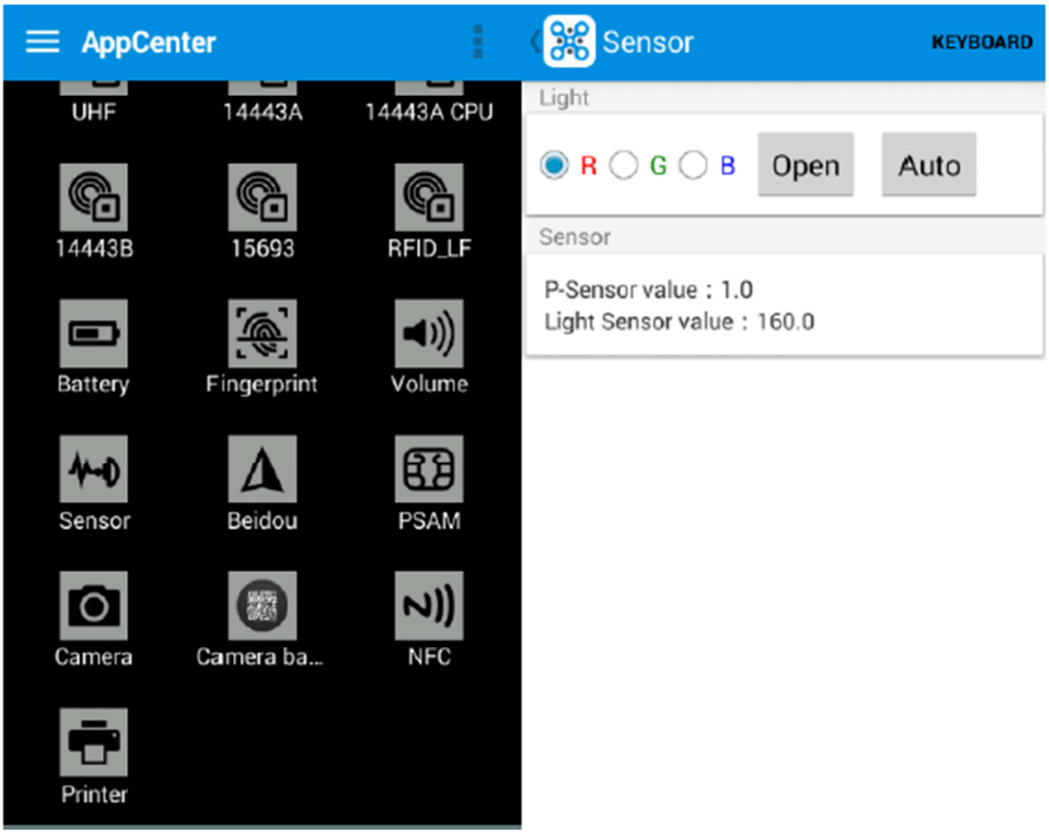
5.2 Volume Settings

1. Open the Volume Setting demo in Appcenter.
2. Set the volumes based on the requirements.



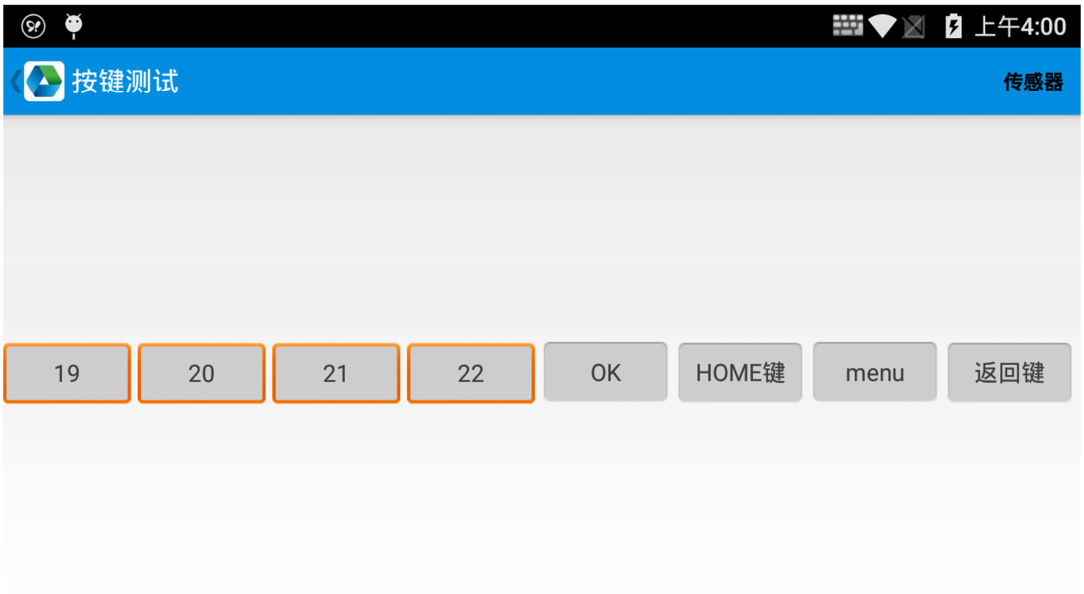
5.3 Sensor

1. Open the Sensor demo in App center.
2. Test the sensor based on the requirements.



5.4 Keyboard

1. Open the Keyboard demo in Appcenter.
2. Set and test the key values of the device.



5.5 Network

1. Open the Network demo in Appcenter.
2. Test the WIFI/Mobile signal based on the requirements.