ShenZhen Chainway Information Technology Co., Ltd

Mobile Data Terminal

MC62 User Manual

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Statement

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Chapter 1 Product intro

1.1 Intro

Chainway MC62 is a lightweight and portable high-performance mobile computer. With Android 13, octa-core processor, 4-inch touchscreen and 5000mAh removable battery, the excellent configuration delivers highly efficient operation. It supports barcode scanning, NFC, 13MP camera, multiple wireless connections, and features IP67 protection rating, 1.5 meters drop resistance. The mobile computer is thus widely applicable in various fields including warehousing, logistics, retail, finance, transportation, and manufacturing, helping users significantly improve work efficiency.

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 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 -20℃ 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

Designation	Comments
SCAN Button	Keyboard SCAN button
Direction Button	Operate direction of cursor
Keyboard	Type numbers and characters
Power Button	Power ON/OFF
SCAN Button	Side scan buttons

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.

3.3 5G Function

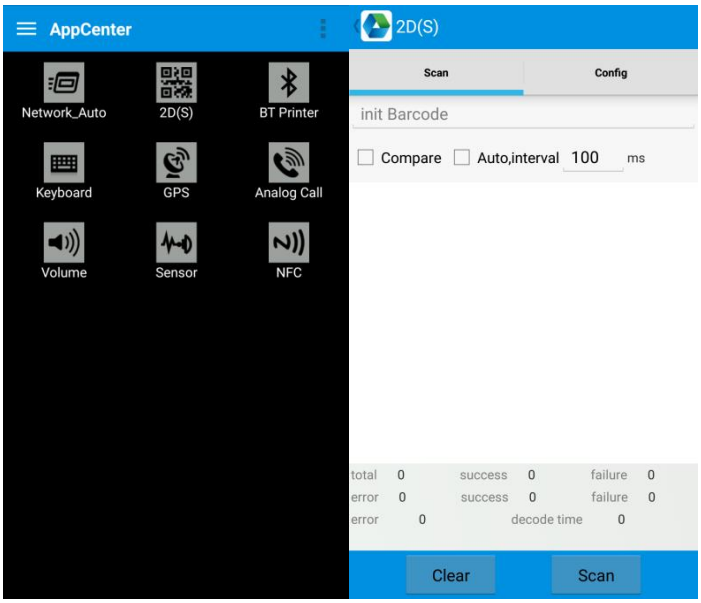
1. Open Settings
2. Select Network and Internet
3. Select SIM card
4. Enable 5G

3.4 SMS and MMS

1. Click to open message window.
2. Click to input message receiver and contents.
3. Click to send out messages.

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.

2D code:

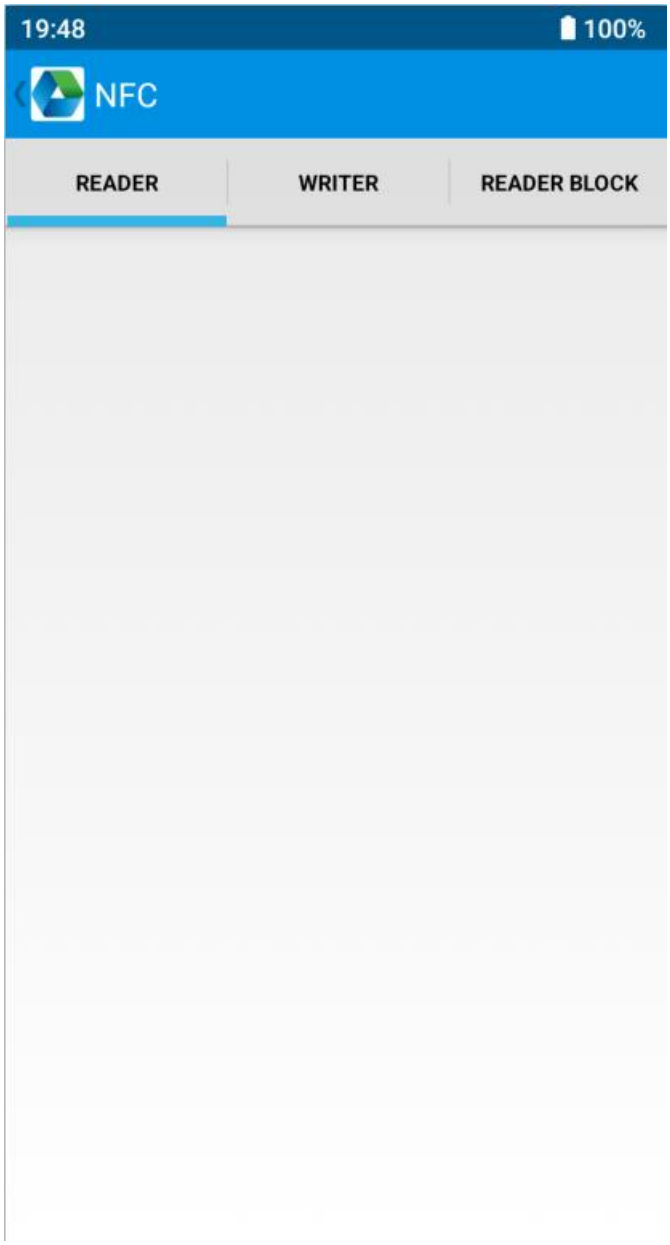
Correct

Incorrect

Chapter 5 RFID reader

5.1 NFC

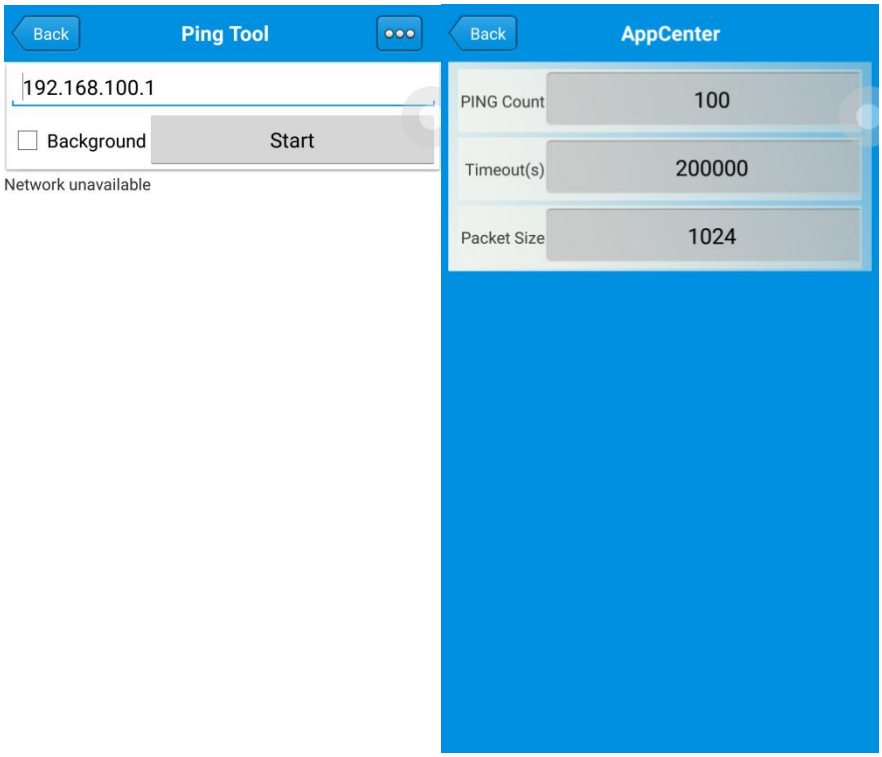
Click App Center, open “NFC” to read and write tag information.



Chapter 6 Other functions

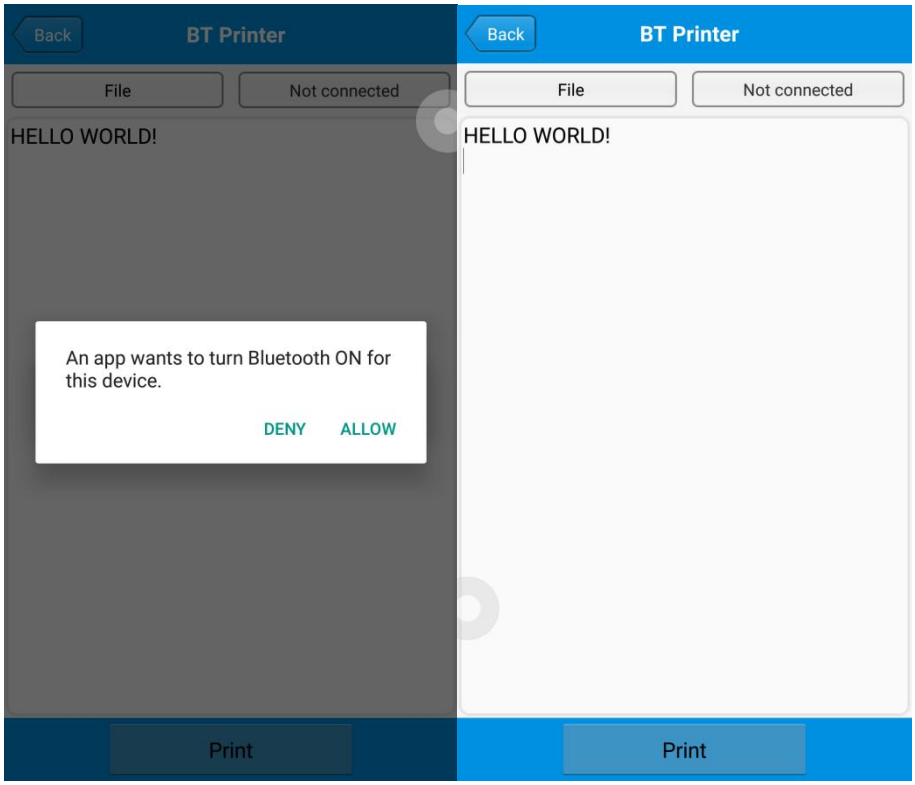
6.1 PING tool

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



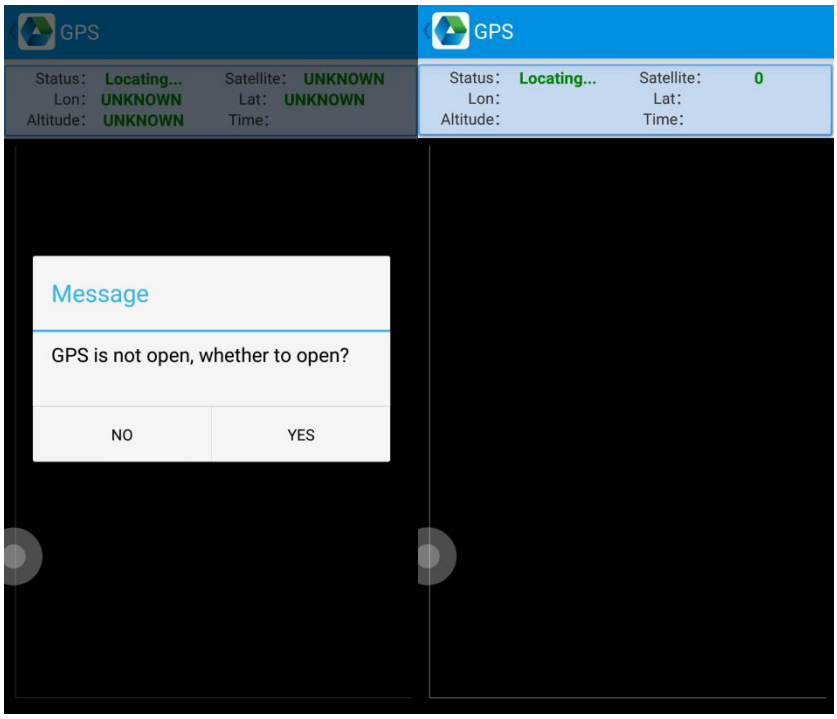
6.2 Bluetooth

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.



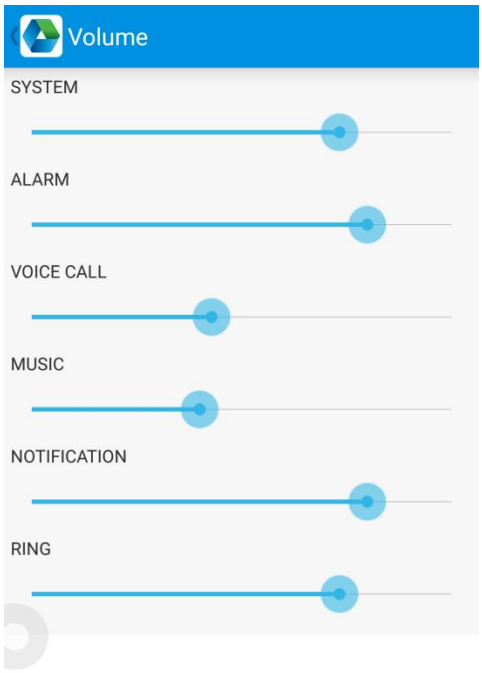
6.3 GPS

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



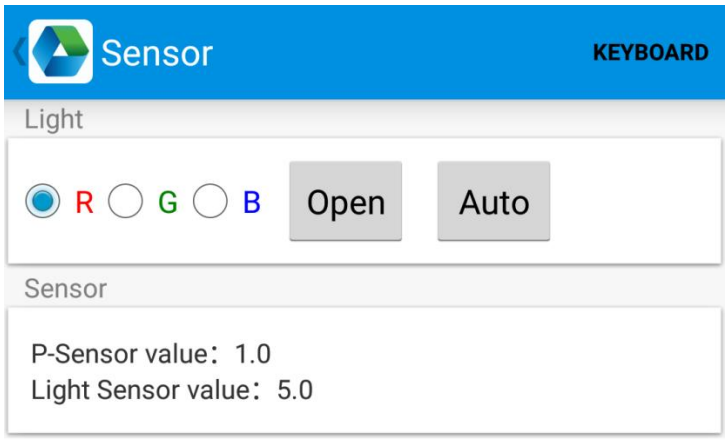
6.4 Volume setup

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



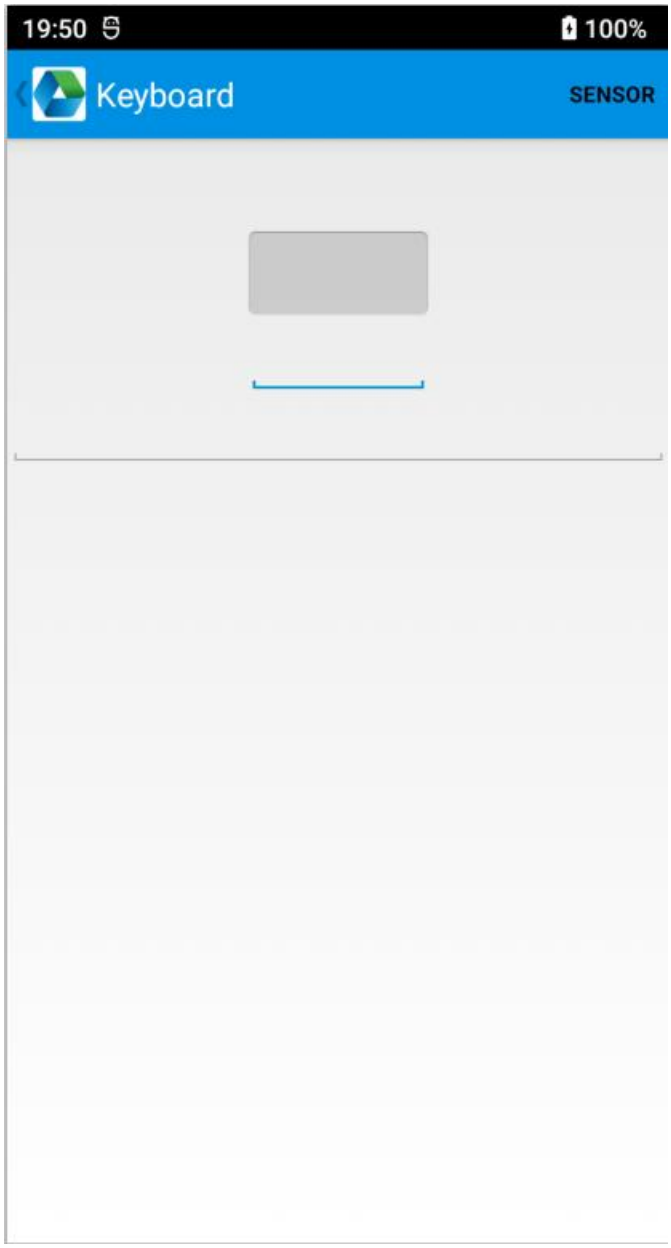
6.5 Sensor

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



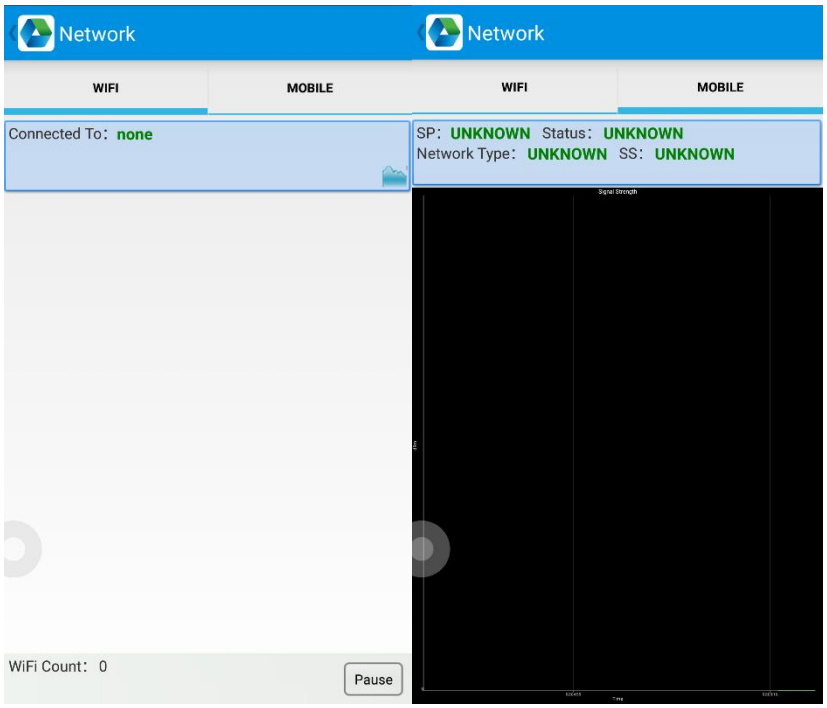
6.6 Keyboard

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



6.8 Network

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



6.8 Keyboard emulator

The keyboard emulator can be used in multiple operating background and output formats directly. And it includes Prefix/Suffix/Enter/TAB.

Please check Keyboard emulator manual for more details.

Note: For each model, keycode of side button would be different, user needs to use keyboard in appcenter to check keycode and bind in Barcode2D.

19:52
100%
keyboardemulator v7.4.0.6
Function
AppSettings
2DSettings
Test
Enable Scanner
ON
Barcode
KeyCode
Barcode2D
291
293
294
296
UHF
KeyCode
UHF
291
294

Chapter 7 Device characteristic

Physical characteristics

Size	163.5 x 67.0 x 17.1mm/6.44 x 2.64 x 0.67in
Weight	256g / 9.03oz (device with battery)
Keypad	Multi-touch panel, gloves and wet hands supported
Display	4-inch, 480 x 800
Touch panel	Multi-touch panel, gloves and wet hands supported
Sensor	Gravity sensor, distance sensor, light sensor; Gyroscope (optional), geomagnetic (optional)
Battery	5000mAh removable battery, support quick charge
Notification	Sound, LED indicator, vibrator
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card
Interfaces	USB Type-C, USB 2.0, OTG

Performance

CPU	Octa-core, 2.0 GHz
OS	Android 13
RAM	3GB
Communication Interface	USB Type-C, USB 2.0, OTG
ROM	32GB
Max. expansion	Supports up to 128 GB Micro SD (TF) card

User environment

Operating temp.	-20℃ to 50℃
Charging temp.	-20℃ to 40℃
Storage Temp.	-40℃ to 70℃
Humidity	5%RH - 95%RH non condensing
Sealing	IP65, IEC sealing standard
Drop specification	Multiple 1.5 m / 4.9 ft. drops to the concrete across the operating temperature range
Tumble Specification	1000 x 0.5m / 1.64ft. falls at room temperature
Sealing	IP67 per IEC sealing specifications
ESD	±15 KV air discharge, ±8 KV conductive discharge

Communication

WWAN	**2G**: GSM (850 / 1900MHz) **3G**: WCDMA (B2 / B4 / B5) **4G**: FDD-LTE (B2 / B4 / B5 /B7 / B12 / B17) TDD-LTE (B38 / B40 / B41)
Vo-LTE	Support
WLAN	IEEE802.11 a/b/g/n/ac, 2.4G/5G dual-band, 5G PA
Bluetooth	Bluetooth 5.0

Data collection

Barcode scanning	Zebra: SE4710; CB300; CM60
Camera	Rear: 13MP Autofocus with flash Front: 5MP
RFID	NFC 13.56Mhz

Developing Environment

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

Appendix

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.

FCC SAR statements:

The SAR limit of USA (FCC) is 1.6 W/kg averaged over one gram of tissue. Device types MC62 (FCC ID: 2AC6AMC62) has also been tested against this SAR limit.

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 10mm 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.