

Mobile Data Terminal

C76 User Manual



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Chapter 1 Product Intro

1.1 Intro

C76 device is a smart mobile PDA that integrated with various features such as UHF,, data acquisition, wireless transmission and data processing etc. It is configured with Andriod 6.0 OS and it possesses high reliability and expansibility. With a set of advanced data acquisition options, C76 can be operated in various industries to acquire precise and abundant datum automatically. Meanwhile, the device can match the options with staffs accordingly. The corporation which deployed C76 will realize the deployment work is simple and maintenance work will be remarkably decreased.

C76 is highly rugged, compact and durable. With IP65 water and dust proof capability, the device has met IEC sealing standard. Therefore, it can be operated by staffs such as railway inspector, road toll operator, vehicle inspector, delivery postman, power supply inspector, storage administrator, financial & insurance, police officers, security tracing etc. Wherever your staff locations are, C76 can remain its connectivity with the system to make sure business in high-effective operating.

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°C to 50°C.

Note:

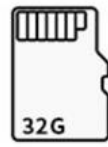
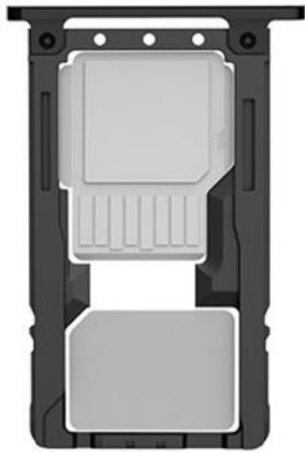
CAUTION RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Chapter 2 Installation Guide

2.1 Appearance



2.2 Install Micro SD,cards



Micro SD Card

2.3 Battery Charging

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

C72 has 4 side buttons and 4 main keys, handheld connection port locates at rear, 2D scanning module and camera locate at top.

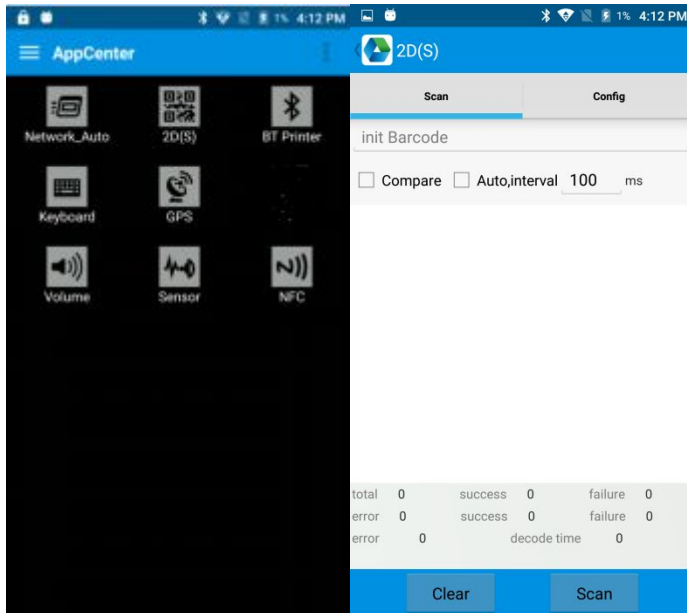



Buttons instruction

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 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

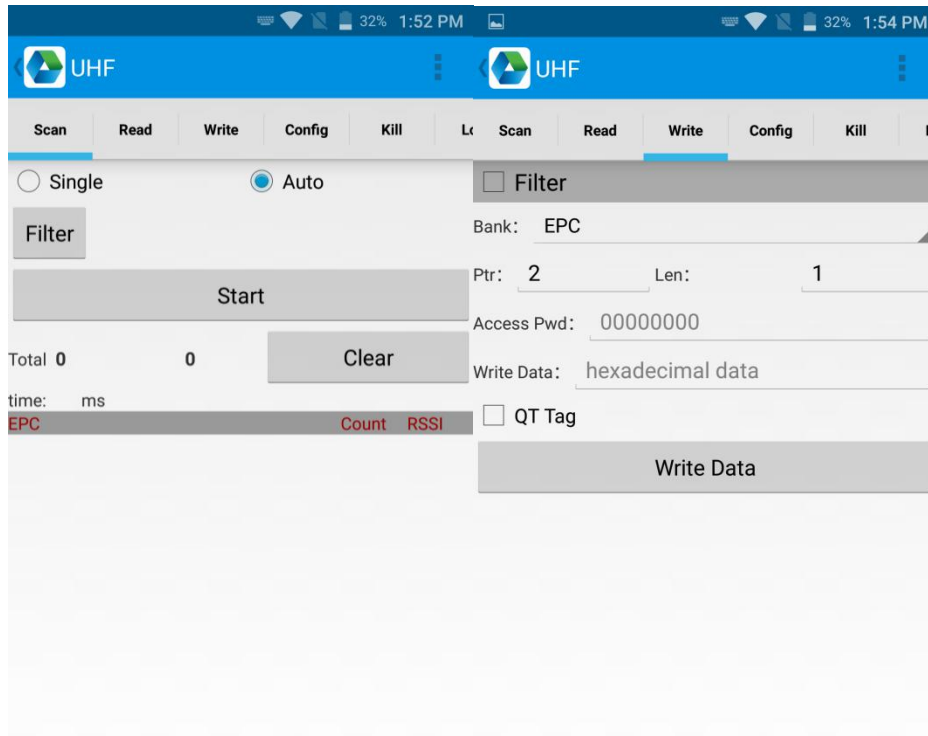


Max. radiant power: 0.6mW
Wave length: 655nm
IEC 62471-1 (Ed.2.0).
21CFR 1040.10 and 1040.11 standard.

Chapter 4 RFID reader

4.1 UHF

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



UHF 32% 1:54 PM UHF 32% 1:54 PM

an Read Write Config Kill Lock an Read Write Config Kill Lock

Use EPC Filter

EPC: _____ Access Pwd: Can't use the default password

Access Pwd: Can't use the default password Lock Code: _____

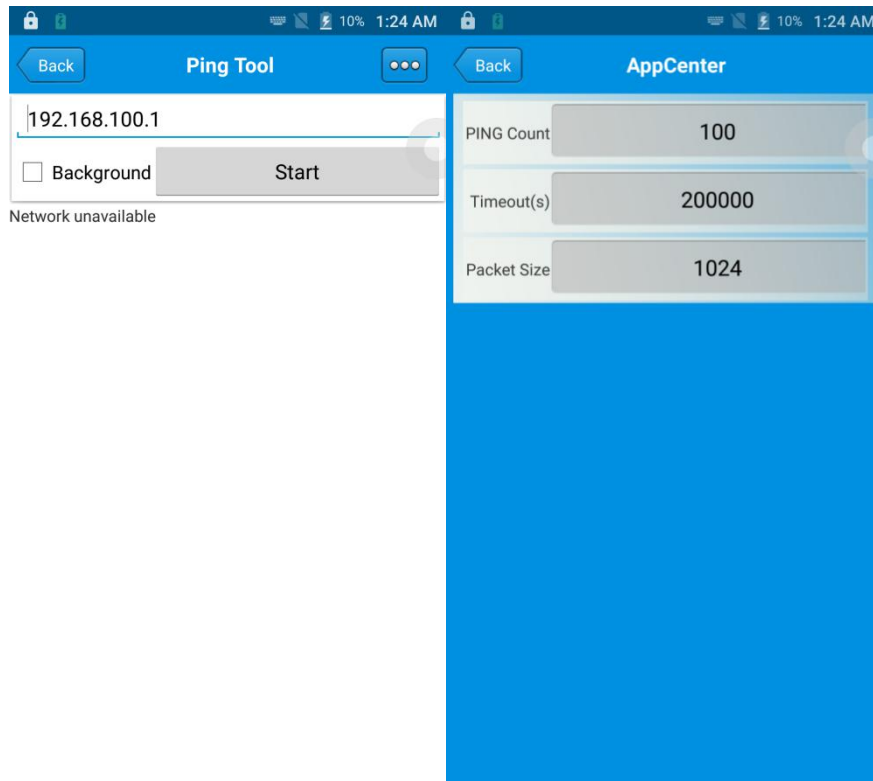
Kill Lock

Tips: After permanent lock, unable to unlock;After permanent unlock, not locked

Chapter 5 Other functions

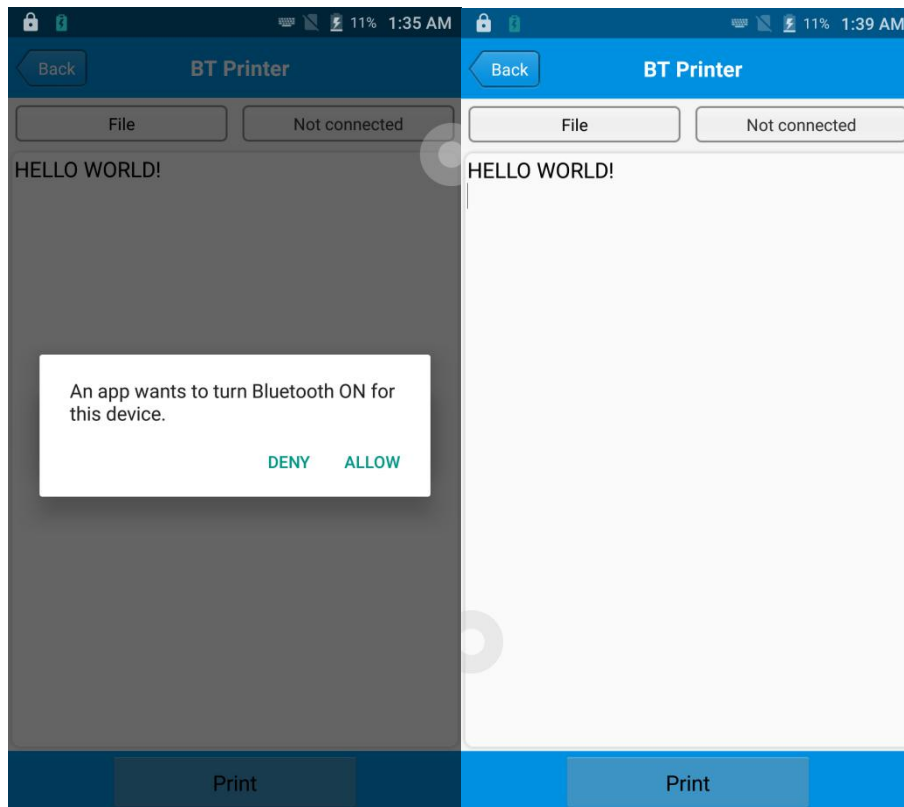
5.1 PING tool

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



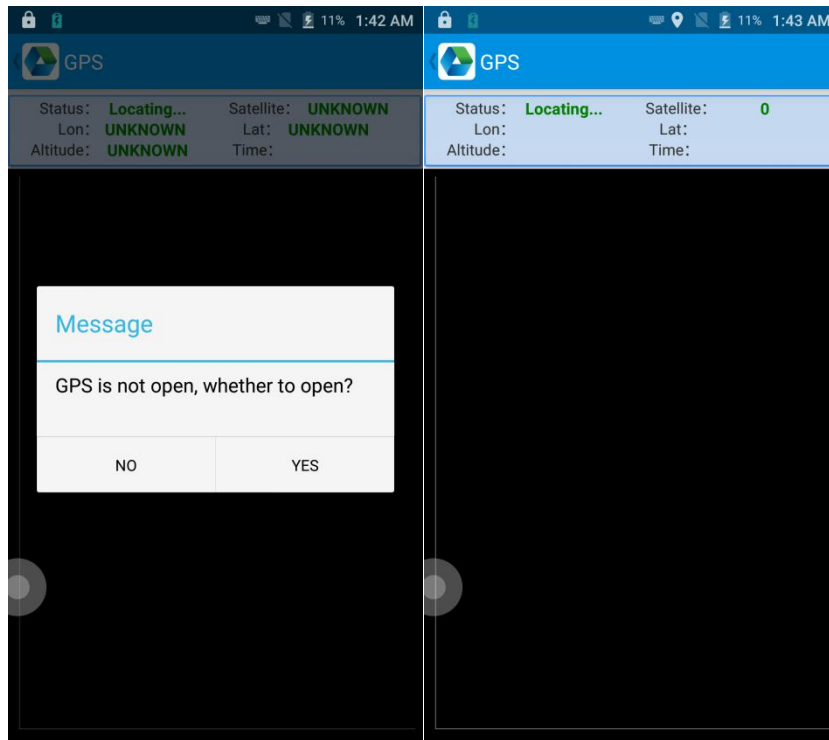
5.2 Bluetooth

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.



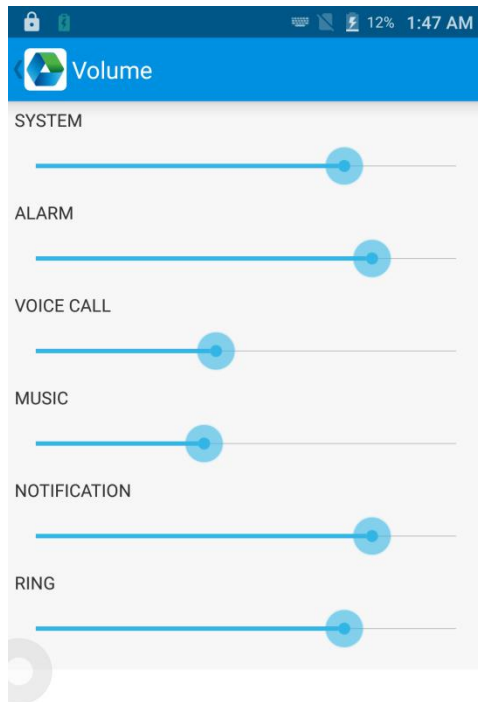
5.3 GPS

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



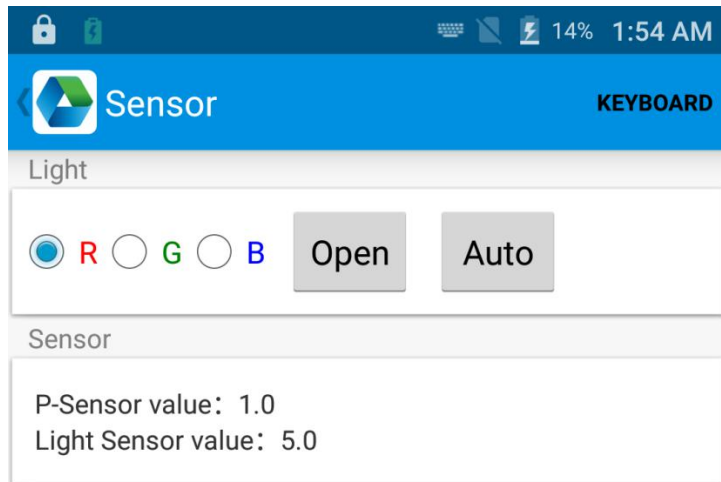
5.4 Volume setup

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



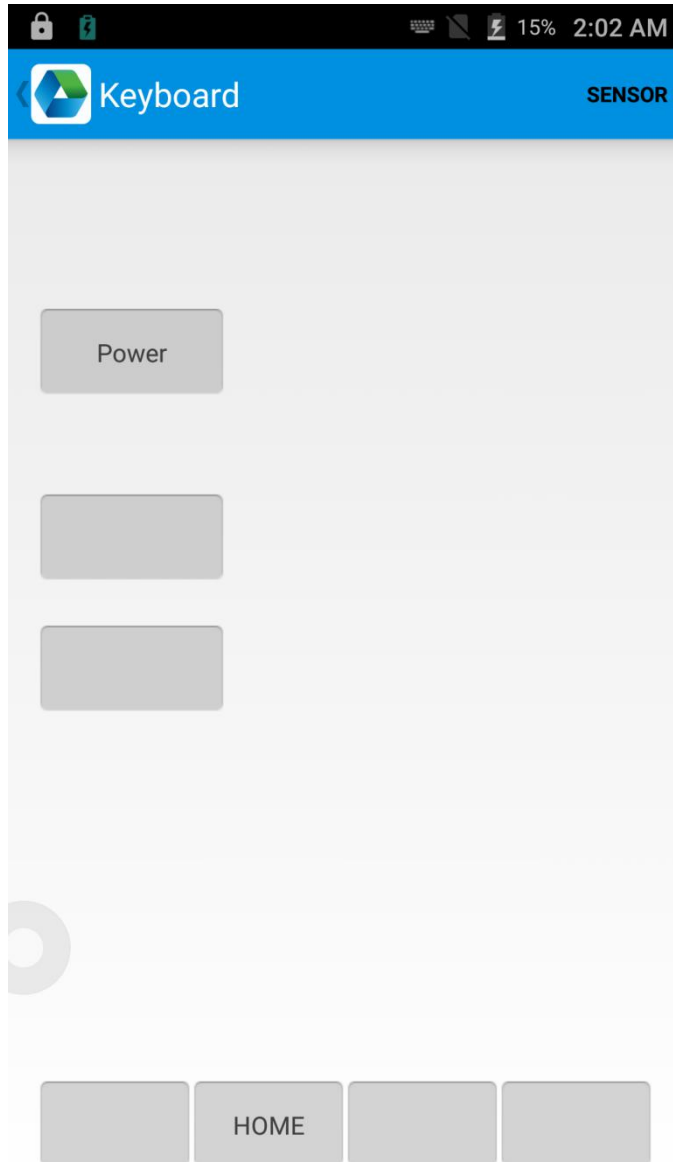
5.5 Sensor

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



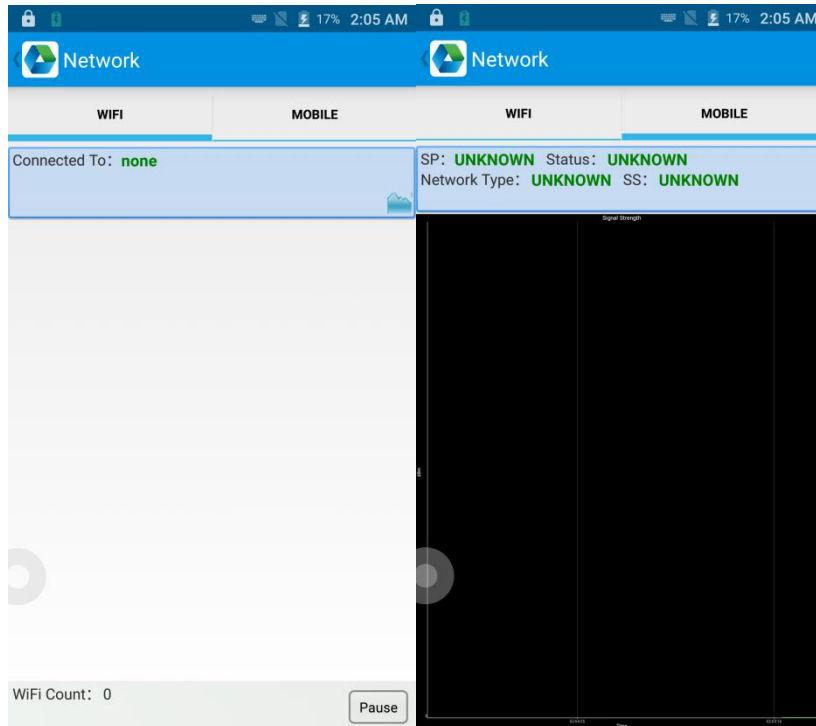
5.6 Keyboard

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



5.7 Network

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



Chapter 6 Device characteristic

Physical characteristics

Size	162.5mm*80.0mm*14.5mm
Weight	540g
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, 6600mAh (4000mAh embedded battery and 2600mAh pistol battery)
Expansion	Supports up to 32 GB Micro SD card
Expansion Slot	1 slot for SIM card, 1 slot for SIM or TF card
Audio	Speaker, microphone
Camera	13MP autofocus camera with flashlight

Performance

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

User environment

Operating temp.	-20°C to 50°C
Storage Temp.	-20°C to 70°C
Humidity	5%RH - 95%RH non condensing
Sealing	IP65, IEC sealing standard
Drop specification	Multiple 1.5m/4.9ft drops (at least 20 times) to the concrete across the operating temperature range

Communication

WLAN	IEEE802.11 a/b/g/n, 2.4G/5G dual-band, internal antenna
WPAN	Bluetooth 4.0

Data collection

Barcode scanning	2D CMOS scanning engine
RFID	UHF

Developing Environment

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

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The device is designed to meet the requirements for exposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for using at the handheld is 0.653 W/kg.

changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.