

USER'S MANUAL

Business DMR Radio

FUNCTION MEETS REQUIREMENT.

Two Way Radio



User Instruction

Please read the manual carefully before using this product. So that you can easily operate the radio. When you are using this product, we think that you have read the manual

- Please keep the manual, in order to offer reference or user of this product
- This product relates to upgrade or improve. the company reserves without prior notice to change this manual at any time above the rights of software and hardware specifications

All specifications mentioned product specifications and information is only for reference

- Although all words carefully check, it is hard to avoid errors, the company reserves the final interpretation

Main Features

- IP68 waterproofed
- 2.4 inch Screen
- Channel:1024
- contacts:1000
- Zone: 64
- Roaming
- Bluetooth: version 5.2(optional)
- Encryption: ARC4, AES128, AES256
- GPS: Beidou / GPS/ Glonass(optional)
- Man down
- Mic gain level adjustable
- Factory reset
- Recorder(300 hours)(optional)
- VOX
- Updated(MCU, DSP, LOGO reboot)
- Noise cancellation
- Emergency alarm
- End tone elimination
- Work alone
- Single call/ all call/ group call
- TDMA dual time slot
- Battery saving function

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Important Safety Information

RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios

ATTENTION!

This radio is restricted to Occupational use only. Before using the radio, read the RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios which contains important operating instructions for safe usage and RF energy awareness and control for Compliance with applicable standards and Regulations.

If the radio has been submersed in water, shake the radio well to remove any water that may be trapped inside the speaker grille and microphone port. Trapped water could cause decreased audio performance.

If the radio's battery contact area has been exposed to water, clean and dry battery contacts on both the radio and the battery before attaching the battery to the radio. The residual water could short-circuit the radio.

If the radio has been submersed in a corrosive substance (e.g. saltwater), rinse the radio and battery in fresh water then dry the radio and battery.

To clean the exterior surfaces of the radio, use a diluted solution of mild dish washing detergent and fresh water (i.e. one teaspoon of detergent to one gallon of water).

Never poke the vent (hole) located on the radio chassis below the battery contact. This vent allows for pressure equalization in the radio. Doing so may create a leak path into the radio and the radio's submersibility may be lost. Never obstruct or cover the vent, even with a label.

Ensure that no oily substances come in contact with the vent.

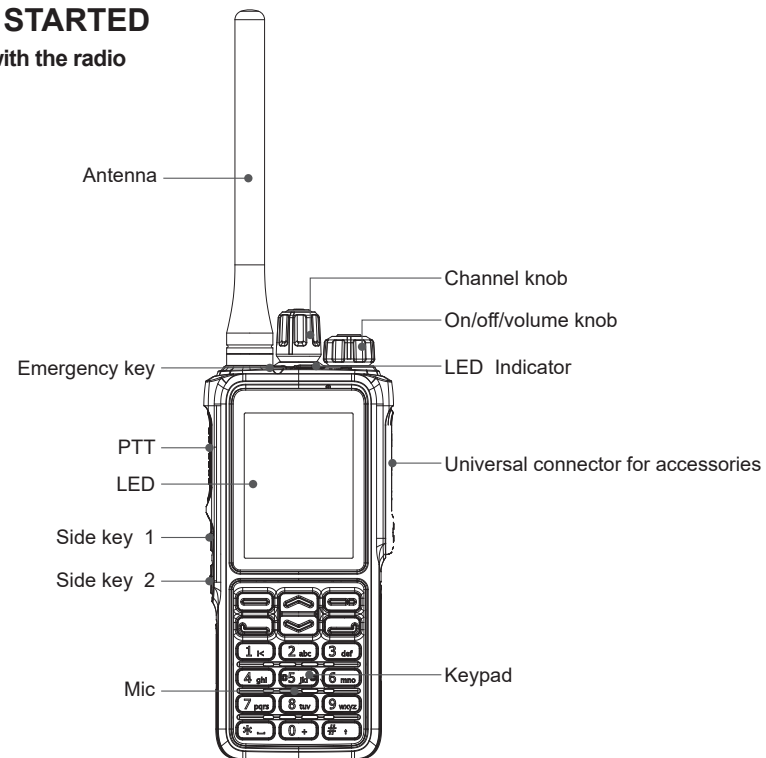
The radio with antenna attached properly is designed to be submersible to a maximum depth of 1 meter (3.28 feet) and a maximum submersion time of 30 minutes. Exceeding either maximum limit or use without antenna may result in damage to the radio.

When cleaning the radio, do not use a high pressure jet spray on the radio as this will exceed the 1 meter depth pressure and may cause water to leak into the radio.

Caution: Do not disassemble the radio. This could damage radio seals and result in leak paths into the radio. Radio maintenance should only be done in service depot that is equipped to test and replace the seal on the radio.

GETTING STARTED

Get familiar with the radio



Basic operation

PTT button

While a call is in progress, the PTT button allows the radio to transmit to other radios in the call. Press and hold down PTT button to talk. Release the PTT button to listen.

The microphone is activated when the PTT button is pressed.

While a call is not in progress, the PTT button is used to make a new call

LED indicator

Blinking red

Radio is transmitting , receiving an emergency transmission, has failed the self-test upon powering up

Switching Between Analog and Digital Mode

Each channel in your radio can be configured as analog or digital channel. Use the Channel Selector Knob to switch between an analog or a digital channel. You can find D or A in the channel to indicate it is digital or analog.

The channel can be set in the software.

Volume switch

Rotate the power/volume knob clockwise, when it powers on, continue to rotate the knob to adjust the volume.

Note: You can monitor the background sound and adjust the volume.

Making and receiving calls

Selecting a zone

The radio support up to 5 zones and 1024 channels: using the menu key to access the menu , use up and down to Zone and press confirm key to select.

Selecting a Channel

Transmissions are sent and received on a channel. Depending on your radio's configuration, each channel may have been programmed differently to support different groups of users or supplied with different features. After selecting the relevant Zone select the relevant channel you require to transmit or receive on.

Turn the programmed Channel Selector Knob to select the channel, subscriber alias or ID, or group alias or ID.

Receiving and Responding to a Radio Call

Once the channel, subscriber ID, or group ID is displayed, you can proceed to receive and respond to calls.

The LED lights up solid green while the radio is transmitting and blinks green when the radio is receiving.

Note: The LED lights up solid green while the radio is transmitting

To unscramble a privacy-enabled call, your radio must have the same Privacy Key, OR the same Key Value and Key ID (programmed by your dealer), as the transmitting radio (the radio you are receiving the call from).

Receiving and Responding to a Group Call

To receive a call from a group of users, your radio must be configured as part of that group. When you receive a Group Call (while on the Home screen), the LED blinks green. The Group Call icon appears in the screen. The second text line displays the group call alias. Your radio unmutes and the incoming call sounds through the radio's speaker.

Hold the radio vertically 1 to 2 inches (2.5 to 5.0cm) from your mouth.

If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the PTT button, indicating the channel is free for you to respond.

Press the PTT button to respond.

Release the PTT button to listen

Receiving and Responding to a Private Call

A Private Call is a call from an individual radio to another individual radio.

When you receive a Private Call, the LED blinks green. The Private Call icon appears in the screen. Your radio unmutes and the incoming call sounds through the radio's speaker.

Hold the radio vertically 1 to 2 inches (2.5 to 5.0cm) from your mouth.

If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the PTT button, indicating the channel is free for you to respond.

Press the PTT button to respond

Release the PTT button to listen

Receiving an All Call

An All Call is a call from an individual radio to every radio on the channel. It is used to make

important announcements requiring the user's full attention,

When you receive an All Call, a tone sounds and the LED blinks green.

The Group Call icon appears in the screen. The first text line shows the caller alias. The second text line displays all call. Your radio unmutes and the incoming call sounds through the radio speaker.

Once the All Call ends, the radio returns to the previous screen before receiving the call. An All Call does not wait for a predetermined time before ending

If the Channel Free Indication feature is enabled, you hear a short alert tone the moment the transmitting radio releases the PTT button, indicating the channel is now available for use.

You cannot respond to an All Call.

Making a Radio Call

After selecting your channel, you can select a subscriber alias or ID, or group alias or ID by using The Channel Selector Knob.

Scan Lists

Scan lists are created and assigned to individual channels/groups. Your radio scans for voice activity by cycling through the channel/group sequence specified in the scan list for the current channel group.

Your radio can support up to 4 scan lists, with a maximum of 10 members in a list. Each scan list supports a mixture of both analog and digital entries. You can add, delete, or prioritize channels by editing a scan list

1. Use Menu key to access menu

- 2.Up or down key to scan and press confirm key to select
- 3.Up or down key to scan list and press confirm key to select
- 4.Use up or down key to view the member on the list .

Scan

When you start a scan, your radio cycles through the programmed scan list for the current channel looking for voice activity.

The LED blinks green.

During a dual mode scan, if you are on a digital channel, and your radio locks onto an analog channel, it automatically switches from digital mode to analog mode for the duration of the call.

For the analog radio , only can scan the analog signal.

Contact Settings

Contacts provides “address-book” capabilities on your radio. Each entry corresponds to an alias or ID that you use to initiate a call.

Each entry, depending on context, associates with one of five types of calls: Group Call, Private Call, All Call.

Call Log Features

Your radio keeps track of all recent outgoing,answered, and missed Private Calls. Use the call log feature to view and manage recent calls.

You can perform the following tasks in each of your call lists:

View

Message

Delete

Delete all

Emergency Operation

Emergency call button is on the top of radio.

An Emergency Alarm is used to indicate a critical situation. You are able to initiate an Emergency at any time on any screen display even when there is activity on the current channel.

It has 2 type: LOCAL SOS /CALL SOS

The screenshot shows the 'DMR setting' menu. On the right side, there is a section for 'SOS setting' and 'Channel mode'. The 'SOS setting' dropdown menu is open, showing three options: 'Call SOS', 'Call SOS', and 'Local SOS'. The 'Call SOS' option is highlighted in blue. The 'Channel mode' dropdown menu is also open, showing 'Local SOS' as the selected option. Other settings visible include Radio ID (1), Device name (TD-780), TOT (180s), Cps encrypt (disable), Cps password, Cps password again, Cps time (2025.8.11 19:27:59), Freq range (400-470MHz), VOX (OFF), Bluetooth (OFF), Scan (OFF), Record (OFF), GPS (OFF), Noise cancellation (OFF), NFC switch (OFF), Digital mic gain (18), Analog mic gain (18), SPK gain (8384), Recording format (AMBE), Battery save mode (1:2), and TX admit (always allow).

Receiving an Emergency Alarm

On receiving an emergency alarm the emergency icon appears, a tone sounds, the LED blinks red and the radio displays the emergency caller alias

Sending an Emergency Alarm with Call

This feature allows you to send an Emergency Alarm to a group of radios. Upon acknowledgment by a radio within the group, the group of radios can communicate over a programmed Emergency channel.

Text Message Features

Your radio is able to receive data, for example a text message, from another radio or an e-mail application

The maximum length of characters for a text message, including the subject line (seen when receiving message from an e-mail application), is 140 whereas for receiving this is 280 characters.

The radio exits the current screen once the in activity timer expires. Any text message in the writing/editing screen will automatically be saved to the Drafts folder.

Note: For the Arabic language, the text entry orientation is from right to left.

In the menu , users can find the Inbox and Out box, also edit the new message and shortcuts SMS(Which need to set in the software)

No.	Content
1	
2	
3	
4	
5	
6	

No.	Sender	Receiver type	Receiver ID	Send time	Content

No.	Sender	Receiver type	Receiver ID	Send time	Content

progress

Encryption

If enabled, this feature helps to prevent eavesdropping by unauthorized users on a channel by the use of a software-based scrambling solution. The signaling and user identification portions of a transmission are not scrambled.

Your radio must have privacy enabled on the channel to send a privacy-enabled transmission, although this is not a necessary requirement for receiving a transmission. While on a privacy-enabled channel, the radio is still able to receive clear (unscrambled) transmissions.

Your radio supports 3 types of privacy:

ARC4

AES128

AES256

Only one of the privacy types above can be assigned to the radio.

To unscramble a privacy-enabled call or data transmission, your radio must be programmed to have the same Privacy Key (for Basic Privacy), or the same Key Value and Key ID (for Enhanced Privacy) as the transmitting radio.

If your radio receives a scrambled call that is of a different Privacy Key, or a different Key Value and Key ID, you will either hear a garbled transmission (Basic Privacy) or nothing at all (Enhanced Privacy).

The LED lights up solid green while the radio is transmitting and blinks green rapidly when the radio is receiving an ongoing privacy-enabled transmission.

The screenshot displays a radio interface with five encryption settings arranged in two rows. Each setting is represented by a box with a title, a 'Key mode' dropdown menu, and an 'Encrypt' text area.

- Encrypted data 1:** Key mode is set to 'ARC4'. The 'Encrypt' field contains the text '1234567891'.
- Encrypted data 2:** Key mode is set to 'AES128'. The 'Encrypt' field contains the text '12345678912345678912345678912345'.
- Encrypted data 3:** Key mode is set to 'AES256'. The 'Encrypt' field contains the text '1234567891234567891234567891234567891234567891234567891'.
- Encrypted data 4:** Key mode is set to 'ARC4'. The 'Encrypt' field contains the text 'FFFFFFFF'.
- Encrypted data 5:** Key mode is set to 'ARC4'. The 'Encrypt' field contains the text 'FFFFFFFF'.

Noise cancellation

Noise cancellation, uses a technology called Active Noise Control to reduce unwanted ambient sound by generating an opposite sound wave that cancels out the original sound waves. It is most effective on constant, low to medium-frequency noises like engine hum or background chatter. While it enhances the listening experience by creating a peaceful audio environment, it does not eliminate distinct or sudden sounds, as these change too quickly for the technology to process and cancel.

Press menu key to access the menu.

Use ▲ or ▼ to setting , choose the noise cancellation on or off

Recording

You can set the recording on via the software , after that can use the menu to choose recording on or off.

There are 2 format of the recording. You can choose it in the software.

The image displays two screenshots of a software interface for configuring a radio. The top screenshot shows the 'DMR setting' section with various options like Radio ID, Device name, TOT, Cps encrypt, Cps password, Cps time, Freq range, VOX, Bluetooth, Scan, Record (highlighted with a red box), GPS, Digital mic gain, Analog mic gain, SPK gain, SOS setting, Channel mode, Recording format, Battery save mode, and TX admit. The bottom screenshot shows the same interface with the 'Recording format' dropdown menu open, showing options like AMBE, PCM, and AMBE (highlighted with a red box).

Man down

A man down function is a safety feature on two-way radios and personal safety devices that automatically detects a fall or prolonged lack of movement, triggering an alarm to alert others or a central control center. It uses tilt switches and other sensors to identify when a user is in a horizontal position or motionless for a set duration, providing a safety net for lone workers in hazardous environments by enabling quick alerts and location tracking to facilitate timely emergency response.

The image shows a screenshot of the 'Customized button setting' section. It includes options for Keypad backlight, Keypad backlight delay time(s), Backlight time, Backlight, Keypad lock, Mandown (highlighted with a red box), Mandown trigger, Work alone, and Work alone trigger.

VOX

VOX voice control allows you to transmit using only your voice, without having to press the PTT transmit button. Transmission automatically stops when you stop speaking. This feature can be turned on/off using the programming software or the device menu.

When VOX voice control is enabled on your radio channel, speaking into the microphone automatically turns on transmission and sends voice. When you stop speaking, the radio automatically stops transmitting and waits for reception.

Note: VOX can only be enabled when the noise reduction function is enabled.

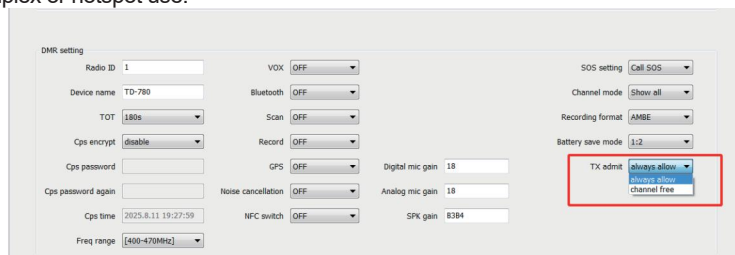
USB mode

You can set the radio to be which kind of USB mode.

Available value: record mode, Disk mode

TX admit

The TX admit function is a setting on DMR radios that determines when a radio can transmit, with options like "Channel Free," "Color Code Free," and "Always". "Channel Free" is the most restrictive, allowing transmission only when no signal or noise is present. "Color Code Free" allows transmission when no other signal on the same color code is detected, useful for repeater use. "Always" permits transmission at any time, even during an ongoing call. The best setting depends on the radio's use case, such as "Color Code Free" for repeaters or "Always" for simplex or hotspot use.



Power saving

Power saving mode can be set in the frequency programming software or in the device menu.

Off: No power saving;

1:1: The wake-up and sleep ratio is 1:1;

1:2: The wake-up and sleep ratio is 1:2;

1:4: The wake-up and sleep ratio is 1:4.

Note: 1:4 is the most power-efficient, but may result in more word dropouts at the start of a call.

Lone Worker

This feature raises an emergency if there is no user activity, such as any radio button press or activation of the channel selector, for a predefined time.

Before raising the emergency, when the in activity timer expires, the radio warns the user via an audio indicator.

If there is still no acknowledgement by the user before the predefined reminder timer expires, the radio initiates an Emergency Alarm.

Locking and Unlocking the Keypad

You can lock your radio's keypad to avoid in advertent key entry.

To lock/unlock your radio's keypad.

Steps:

Press menu key to access the menu.

Use ▲ or ▼ to setting , choose the keypad lock and press menu to select.

After the keypad is locked, the display shows Keypad Locked and returns to the Home screen. After the keypad is unlocked, the display shows Keypad unlocked and returns to the Home screen.

Setting the Squelch Level

You can adjust your radio's squelch level to filter out unwanted calls with low signal strength or channels that have a higher than normal background noise.

Press Menu key to access the menu ▲ or ▼ to squelch level and press menu key to select

Available value: on, level 1/2....9

Setting the Power Level

You can customize your radio's power setting to high or low for each channel.

High enables communication with radios located at a considerable distance from you. ... enables communication with radios in closer proximity.

Press Menu key to access the menu ▲ or ▼ to squelch level and press menu key to select
Available value:HI/LOW

Turning the Voice Operating Transmission (VOX)Feature On or Off

This feature allows you to initiate a hands-free voice activated call on a programmed channel.
The radio automatically transmits, for a programmed period,whenever the microphone on the VOX capable accessory detects voice.

Pressing the PTT button during radio operation will disable VOX.

To re-enable VOX:Turn the radio off and power it on again.

Setting the Display Backlight Timer

You can set the the radio's display backlight timer as needed. The setting also affects the Menu Navigation Buttons and keypad back lighting accordingly.

follow the procedure described next to access this feature via the radio menu.

The display backlight and keypad back lighting are automatically turned off if the LED indicator is disabled

Press Menu key to access the menu ▲ or ▼ to squelch level and press menu key to select
Available value:always on/ 10S/20S....120S

Adjusting the Display Brightness

You can adjust radio's display brightness as needed.

Adjust the Display Brightness , there are 2 methods:

- 1.Press the side key to increase or decrease the brightness
- 2.Use the menu , to choose the brightness and use the ▲ or ▼ to choose the desired items.

Turning the Global Positioning System (GPS) On or Off

GPS is a satellite navigation system that determines the radio's precise location.

The GPS function only can open in the software , if use menu , it will shows: not authorized”

The screenshot displays the 'DMR setting' menu with the following options:

- Radio ID: 1
- Device name: TD-780
- TOT: 180s
- Cps encrypt: disable
- Cps password: (empty)
- Cps password again: (empty)
- Cps time: 2025.8.11 19:27:59
- Freq range: [400-470MHz]
- VOX: OFF
- Bluetooth: OFF
- Scan: OFF
- Record: OFF
- GPS: OFF (highlighted with a red box)
- Noise cancellation: ON
- NFC switch: OFF
- SOS setting: Call SOS
- Channel mode: Show all
- Recording format: AMBE
- Battery save mode: 1:2
- TX admit: always allow
- Digital mic gain: 18
- Analog mic gain: 18
- SPK gain: 8384

A progress bar is visible at the bottom of the menu.

Checking the Radio Alias and ID

This feature displays the ID of your radio.

Follow the procedure described next to access this feature via the radio screen.

Press menu key to access the menu.

to setting and press menu key to radio info



Checking the GPS Information

Displays the GPS information on your radio, such as values of:

- Time
- DATE
- Latitude
- Longitude
- Satellites



Specification

Gerenal	
Frequency	400-470
Channel	1024
Zone	64
Voltage	7.4V
Battery capacity	3200mAh Li-ion
Charger voltage	In:DC12V==1A max
	Out:DC8.7V==1A max
Audio power	1.5W(
Audio distortion	< 3%
Audio response	+1d B ~-3d B
Working time(5:5:90)	Analog for 12hours
	Digital for 16hours
Recorder	300 hours
Transmitter	
TX power	High: 5 W Low:2W
Frequency stability	±0.5ppm
Channel space	12.5KHz/20KHz/25KHz
Spurious emission	30MHz~1GHz≤-36dBm
	1GHz~12.75GHz<-30dBm
Adjacent channel power	60dB@12.5KHz
	70dB@20/25KHz
FM modulation mode	12.5KHz:11K0F3E
	20KHz:14K0F3E
	25KHz:16K0F3E

4FSK digital modulation mode	12.5KHz(data only):7K60FXD 12.5KHz(Voice only):7K60F1D 12.5KHZ(data+voice):7K60F1W
Modulation MAX deviation	±2.5KHz @ 12.5KHZ ±4.0KHz @ 120KHz ±5.0KHz @ 25KHz
Hum and noise	40dB @ 12.5KHz 43dB @ 20KHz 45dB @ 25KHz
Protocol	FM+DMR
Vocoder type	AMBE++/NVOC
Receiver	
Spcace	12.5KHz/20KHz/25KHz
Analog sensitivity	0.22uV(12dB SINAD)
Digital sensitivity	0.22uV(BER 5%)
Inter modulation	TIA-603D:70dB ETSI:65dB TIA603A:60dB@12.5KHz
Adjacent channel selectivity	70dB@20KHz/25KHZ TIA603D:45dB@12.5KHz 70dB@20KHz/25KHZ ETSI:60dB@12.5KHZ 70dB@20KHz/25KHz
Conducted spurious	<-57dBm(TIA603D)
Spurious response	TIA-603:70dB@12.5/20/25KHz
suppression	ETSI:70dB@12.5/20/25KHz

FM Noise	-40dB@12.5KHz -43dB@20KHz -45dB@25KHz
Block	TIA-603D:80dB ETSI:84dB
Location	
GPS	BEIDOU/GPS/GLONASS
Activate time	clod start:< 1 minute Hot start: < 10s
Horizontal position accuracy	<5M
Working environment	
Temperature range	-30~+60℃℃
Standby temperature range	-40~+85℃
Shock and vibration	MIL-STD-810H
IP rate	IP68
Size	
Dimension	35*63*152(mm)
Antenna	SMA
Weight	337±5(g)
Connector	M6-16Pin
Charger method	Desk charger/TYPEC

Note:The FCC version only supports 12.5K

Guarantee

Model Number: _____

Serial Number: _____

Purchasing Date: _____

Dealer: _____ Telephone: _____

User's Name: _____ Telephone: _____

Address: _____ Post Code: _____

Remarks:

- 1 This guarantee card to be kept by the user, no replenishment if lost.
- 2 This guarantee card to be filled & chopped by the dealer, or it is invalid.
- 3 Don't alter the guarantee card, please confirm the serial number on the guarantee card is same as that on the machine.
- 4 One-year guarantee, charger, battery, ear-phone, antenna and cable are not under guarantee.
- 5 The user can get repairing service from the following ways:
 - Go to the shop where you buy the machine.
 - Our local repairing agents.
 - Send back to our company.

Please cut along with this line



EU Statement

We declare that the radio is compliance with Radio equipment Directive (RED) 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: xxxxxx

The device in the environment with the temperature between 0-40°C and operating under 2000m, otherwise, it may damage your radio.

For this device, Head SAR and Body SAR was performed with the device configured in the positions according to EN 50566:2017/A1:2023 & EN IEC/IEEE 62209-1528:2021, and face-up SAR was performed with the device 25mm from the phantom, and Body SAR was performed with the device 0mm from the phantom. Body SAR was also performed with the headset and belt clip attached and without.

CAUTION:

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

FCC Warning Statement

Any 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 condition that this device does not cause harmful interference.

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.

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW.

SAR tests are conducted using standard operating positions accepted by FCC with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the exposure limit established by the FCC. Tests for each product are performed in positions and locations as required by the FCC. For body worn operation, this device has been tested and meets the FCC RF exposure guidelines when used with and accessory designated for this product or when used with and accessory that contains no metal. To maintain compliance with FCC RF exposure guidelines, hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face.

The FCC version only supports 12.5K

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 including received interference that may cause undesired operation.