



SHENZHEN HQT SCIENCE & TECHNOLOGY CO., LTD.

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TH-2800

Two-Way Radio

User Manual



Hello

We appreciate your purchasing TH-2800 two-way radio. We believe that the quality and function of this radio will bring you stable performance and smooth communication.

TH-2800 focus on the pursuing of Fashionable design with high quality and performance stability. Embedded with ergonomic design, reliable quality and stable performance, TH-2800 ensures you smooth communication under any circumstances.

Through programmable key, battery power annunciation is available. The radio will automatically enter battery save mode during standby time. Thus long talk time is ensured. Hands-free operation is available when VOX function is turned ON.

Please read this manual before using.

Contents

Safety Matters	03
Product Inspection	04
Get Acquainted	05
Battery Information.....	05
Antenna Information.....	06
Attaching and Removing.....	07
Radio Overview	08
Basic Operation	11
Turning On/Off.....	11
Adjusting Volume.....	11
Selecting Channel.....	12

Making Call.....	12
Receiving Call.....	12
Advanced Operation	13
PC Programming.....	13
Programmable Keys.....	14
Programmable Keys.....	16
Optional Accessories	20
Care and Maintenance	21
Question and Answer.....	21
Maintenance.....	22

Service and Support	23
Service Commitment.....	23
Warranty.....	23
Caution.....	23
Terms of Warranty.....	24
Appendix	25
Specification.....	25
Frequency Chart.....	26

Safety Matters

Please read these rules below. Nonobservance of the rules may cause danger or violation of law.

- The use of this radio must be in compliance with the regulations of the local government.
- Turn off the radio before you enter places of flammable or explosive environment.
- Do not replace or charge battery pack in places of flammable or explosive environment.
- Turn off the radio before you approach blast area and detonator area.
- Do not use the damaged antenna which may cause slight burn on the skin.
- Only qualified technician are allowed to maintain this two-way radio. Do not disassemble the radio by yourself.
- To avoid problems caused by electromagnetic interference or electromagnetic compatibility, please turn off the radio in places with "Radio Transmitting Equipment Prohibited" mark, such as hospitals or other health care places. When taking a plane, turn off the radio if required.
- In a car with air bag, do not place the radio within possibly involved area when the air bag expands.
- Do not expose the radio to direct sunlight or near heating devices for a long time.
- Keep the radio vertical and speak near the microphone during transmitting.
- Make sure that the antenna is 2.5 cm away from the body during transmitting if you carry the radio on your body.

Product Inspection

Thanks for using TH-2800 two-way radio. Before use, we recommend that:

First check the package for any signs of damage;

Carefully open the package and identify the items listed below;

If any items are missing or damaged during shipment, please contact your dealer.

Items



Radio TH-2800
Qty: 1



Antenna
Qty: 1



Li-poly Battery
Qty: 1



Charger
Qty: 1



Adapter
Qty: 1



Strap
Qty: 1



Belt Clip
Qty: 1



Warranty Card
Qty: 1



User Manual
Qty: 1



Certificate
Qty: 1

Note: Frequency is marked on the color circle at the bottom of the antenna.

Get Acquainted

Battery Information

Applicable battery Model

Please charge with HQT approved battery; using other batteries may burst and cause personal damage.

Note:

1. Do not short-circuit the battery terminals or dispose the battery in fire. Never attempt to disassemble the battery pack.

2. Charge the battery in $-0^{\circ}\text{C} \sim 45^{\circ}\text{C}$ temperature. Otherwise the battery may not be fully charged.

3. Turn off the radio equipped with battery before charge. Using the radio while charging may interfere with charging.

4. Do not pull/plug the adapter and the battery during charging to avoid interfering with the charging procedure.

5. When the battery power consumes quickly even if it is fully and correctly charged, that means the battery life is over and please replace with new battery.

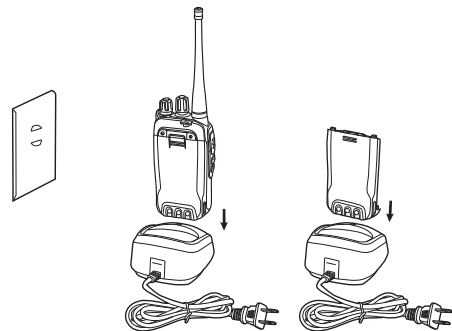
6. Do not charge if the battery or radio is wet. Before charge you should dry it with cloth to avoid danger.

Warning:

Conductive metals such as jewelry, key or decorating lace may result in short circuit and a large quantity of heat when coming to contact with battery electrodes. Treat any battery carefully especially when placing it into pocket, wallet or other metal container.

Charging Operation

Please charge as follows:



1. Turn off the radio. Plug the DC connector of adapter into the DC jack on the rear of the charger.
2. Plug the AC connector of adapter into an AC outlet.
3. After the charger is electrified, the LED glows red for 1 second and goes out. That means the charger is ready for normal charging. If the LED flashes red, it means the charger is not ready for battery charging.
4. Insert the battery or radio equipped with battery into the charger. Make sure the battery is in good connection with the charger electrode.
5. LED glows red during charging and flashed during trickle charging because of very low battery power. And after the battery power reached a certain mount during trickle charge, the charger automatically turns to normal charge mode.
6. The battery is fully charged when LED glows green. The charger stops charging automatically.

Cautions in Charging

1. The battery is not charged in factory. Please charge the battery before initial use or after long-time storage.
2. Repeat charging 2 or 3 times and the battery will reach its best capacity. Please replace or charge the battery if the battery power is low.
3. When the battery power consumes quickly after normal charge, the battery life is finished. Please contact your dealer and buy new HQT approved battery.

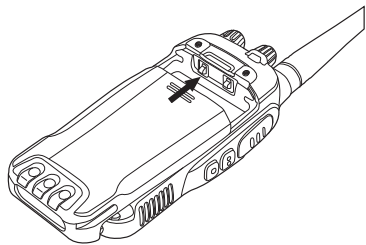
Antenna Information

- The stubby antenna is suitable for short-distance communication; the thin and long antenna will provide the best communication effect. Also it is comfortable to carry on the waist.
- The communication range may be shortened in rainy days or in forest. Please make preparations for that.

Attaching and Removing Attaching and Removing the Battery

Attaching the Battery (Figure 1)

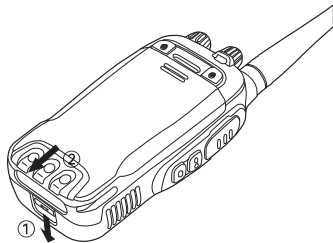
Match the guides of the battery with corresponding grooves at the bottom of radio. Then press downward battery pack until the release latch locks.



(Figure 1)

Removing the Battery (Figure 2)

Before removing, make sure that the radio is turned off. Pull the release latch outwards and slide the battery away from the radio.



(Figure 2)

Attaching/Removing the Antenna

Attaching the Antenna: (Figure 3)

1. Insert the antenna into the connector on the top of radio by holding the antenna at its base.
2. Rotate the antenna clockwise to fasten it.

Removing the Antenna: (Figure 4)

Rotate the antenna counter clockwise until you can remove it.



(Figure 3)



(Figure 4)

Attaching/Removing the Belt Clip

Align the screw eyelets of belt clip with those of the radio. And fasten the belt clip with enclosed M2.5×5 screws.

Loosen the screws to remove the belt clip.(Figure 5)



(Figure 5)

Attaching External Earphone/Microphone

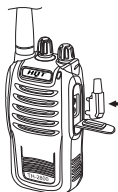
Attaching External Earphone/Microphone

1. Unclose the cover of earphone/microphone jack. (No need to remove it.). (Figure 7)
2. Insert the earphone/microphone into the earphone/microphone jack. (Figure 8)

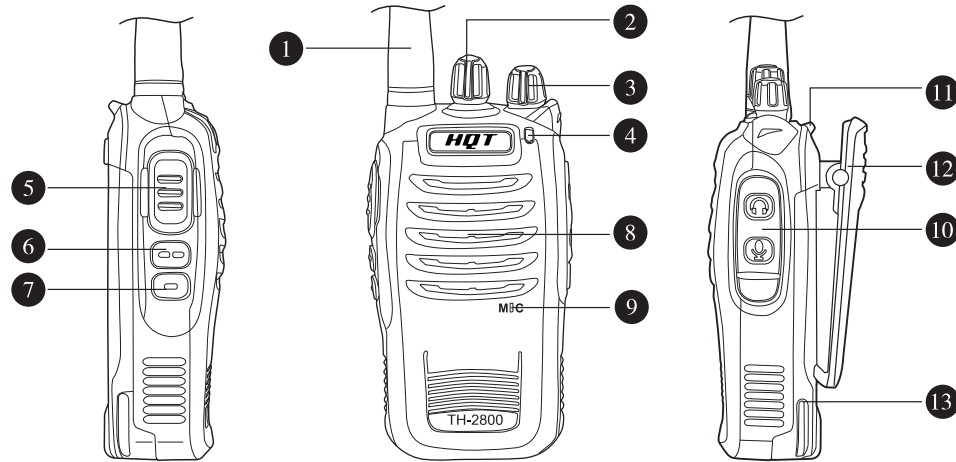
 Note: The radio is not fully waterproof while using external earphone/microphone.



(Figure 6)



Radio Overview



- ① **Antenna**
Helicall antenna to receive and transmit the signal.
- ② **Channel Selector**
Rotate it to select operating channel from 1~16 (15+S). When changing channel, the radio will announce the selected channel number if the voice prompt is on.
- ③ **Power Switch / Volume Control**
Turn on/off the radio and adjust the volume. Rotate the knob clockwise until a click sounds to turn on the radio; rotate it further to adjust the volume. Rotate it counter clockwise until a click sounds to turn off the radio.
- ④ **LED Indicator**
LED glows red during transmitting; glows green during receiving; flashes when battery power is insufficient; flashes green during scanning.
- ⑤ **PTT Key**
To transmit, press down [PTT] key and speak into the mic; release it to receive.

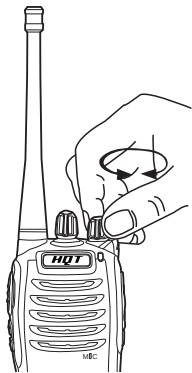
- ⑥ **Mid Key: programmable key**
The default setting is power management.
- ⑦ **Left key: programmable key**
The default setting is conversation management.
- ⑧ **Speaker**
- ⑨ **Microphone**
- ⑩ **MIC-SP Jack/ Data Port**
To connect the earphone/microphone or data cable.
- ⑪ **Strap Hole**
To be used with hand strap.
- ⑫ **Belt Clip**
Stable the radio for easy carry.
- ⑬ **Li-ion Battery**

Basic Operation

Turning on/off the Radio

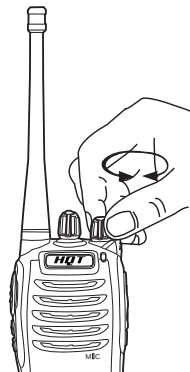
Turn on the radio by rotate Power Switch / Volume Control knob clockwise until a click is sounded.

Turn off the radio by Switch / Volume Control knob counter clockwise until a click is sounded.



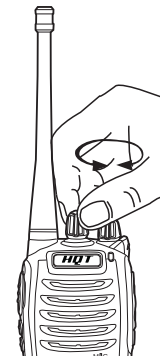
Adjusting Volume

After the radio is turned on, rotate Power Switch/Volume Control knob to adjust volume.



Selecting Channel

Rotate the channel knob to select operating channel from 1~16(15+S), according to the numbers and symbols on the bottom of channel selector knob or channel annunciation.



Making Call

To make a call, hold down [PTT] key and speak into the microphone with normal voice. Please keep the microphone 2.5~5 cm away from your mouth.

Tip:

1. Hold down [PTT] key and the radio begin to transmit when LED glows red.
2. When LED flashes red, the battery power is insufficient. If the battery power is lower than normal battery power, the transmission is prohibited.

Receiving Call

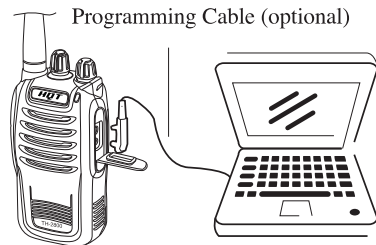
Release [PTT] key to receive a call.

Advanced Operation

It can be set by the software or local dealer

PC Programming

1. Log in HQT on-line service center and download programming software. (or contact your dealer for programming.)
2. Turn off the radio and connect it to PC with programming cable. (see figure on the right)
3. Run the software and turn on the radio. Press "[Battery Icon]" button and write parameter data to the radio. (see figure below)
4. For parameters setting, please refer to help documents of the software.



Programmable Key Setting

You can edit key function by "Key Setting" menu. The default setting is as follows:



As shown in figure above, the default long press duration is 1.5 seconds. Short press [Mid Key] is Power indication and long press [Mid Key] is off. Long press [bottom left Key] is monitor momentary and short press [bottom left Key] is monitor permanently.

You can change the functions of both long key and short key of [Mid Key], [bottom left Key] with programming software.

Those keys can be set as: Off / Monitor / Monitor momentary / Alarm / Battery Power indication Indicator / Whisper / VOX / Power

Electricity of Demand (Battery Power Indication)

The default operation of this function is short press [Mid Key]

Short press [Mid Key] and the radio will report the battery power by audible indication: Power High, Power Middle, Power Low, Please Charge Battery.

Monitor Momentary

The default operation of this function is long press [Bottom left Key] Keep on pressing on bottom left key to receive signal when there is no/weak signal.

Emergency Alert

The default operation of this function is long pres [Top Key].

With this function turns on, long press[top key]and the radio alarms and LED glows red. At the same time send emergency signal to partners on the same channel, the partner radio will sound alarm tone after receiving the signal. And the radio will sound alarm tone after transmitting the signal.

High/Low Power Switching

Press the power programme key to switch the power in high and low .

VOX

With VOX you can directly speak into the microphone without holding down [PPT] key. LED glows red and your voice will be transmitted.

You can change the setting of this function by yourself through “VOX” item in “VOX & Scan menu of the software.

Other functions programmable

Scan

A way to hear conversations on all channels. The default setting of this function is off. When this function is enabled, rotate channel selector knob to 16th channel, LED flashes red and the radio will check all conversations from CH 1 to CH 16. The radio automatically stops at the channel on which a signal is received.

Time Scan

The radio stop scanning on the busy channel for some time (it could be set by software), it would start scanning again no matter the channel is still busy or not.

Carrier Scan

The radio would stop scanning when busy channel is found, and would stay in the channel until the signal disappears.

Dropout Delay Time [Second]

Dropout Delay Time is the time from the end of a received call to the time scanning automatically resumes.

TX Dwell Time: TX Dwell Time is the time from the end of transmission to the time scanning automatically resumes.

Reply channel

It is the channel that when you press [PTT] during scanning, the signal would be sent to, which could be set by software.

Priority channel scanning

Any programmed channel could be set as priority channel. When the radio stops scanning on non-priority channel, it would still check the priority one from time to time. If there is any signal on the priority channel, it would stay in it. Flyback time means the time circle to rescan the priority channel, which could be set by software.

CTCSS/CDCSS

This function is only valid when the channel is set with CTCSS/CDCSS, which is useful to avoid unwanted conversations on the same channel. If CTCSS/CDCSS is set, user can only hear the conversations with matched CTCSS/CDCSS within talk range; if not, user will receive all conversations on the same channel.

DTMF (PTT ID/ANI)

According to Tx/Rx needs, you can pre-input DTMF code (up to 8 digits consisted with 1234567890ABCD_#.) in “PPT ID” item in “Optional Feature” menu of the software Also you can decide DTMF code is send at “Begin of Tx” or “End of Tx.”

The default setting is DTMF off

You can edit DTMF code setting through “DTMF” item in “Optional Feature” menu of the software

Voice Prompts

The default setting of this function is voice prompts in English. You can know current work status through voice prompts.

Busy Channel Lock

This function can prevent interfere other radios using the same channel as you. Press [PPT] key while the channel is in use, the radio will generate alert tone “Du” and transmission is prohibited. Release [PPT] key to stop the alert tone. When channel is not in use, press [PPT] key again and transmission is enabled.

Squelch

Through set squelch level to decide how strong the signal is to unmute the speaker. The lower the squelch level the stronger the background noise to unmute the speaker, the larger the talk range and the weaker the Rx anti-interference ability.

The default setting of this function is Level 4. You can set through “Squelch Level” option in “Optional Feature”. Setting range is 0~9. Selecting “0” causes the squelch open. The higher the squelch level, the harder to open the squelch.

Time out Timer (TOT)

Time out timer is used to prevent someone from using the same channel for a long time. At the same time to avoid radio damage because of long time transmission. If the transmission exceeds the preset time, transmission will be inhibited and alert tone “Du” will sound. To stop the alert tone, release the [PPT] key. Press [PTT] key again and transmission is enabled.

The default setting of this function is 180s. You can set through “Time Out Timer” item in “Optional Feature” menu of the software The maximum time is 5 minutes.

Battery Save

The radio automatically enters battery save mode 5 seconds after no signal is received or transmitted and no key operation is conducted. The battery save mode is off when a signal is received or key operation is conducted. The default setting is intelligent save, you can set it through "save scale" item in "optional Feature" menu of the software.

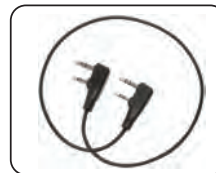
Wired Clone

1. Turn on the wired clone function through programming software or set by local dealer
2. Connect host radio and sub radio with clone cable, and turn on the sub radio.
3. Press [bottom left key] on host radio for about 3 seconds until RED light on, the red and green light would be on at the same time when release [bottom left key], which means the host radio is ready for cloning.
4. Short press bottom left key on host radio again, the red light flashes, and green light on sub radio flashes at the same time, after they stops flashing, clone is finishing.
5. Change another sub radio, connects it to host radio, and press bottom left key on host radio again for more same operation.

Note: If red and green lights on both host and sub radios flash at the same time, it means clone is failed.

Optional Accessories

Optional accessories are available according to your requirements. All HQT accessories with good quality will ensure you clear communication and outstanding performance.



Clone Cable:CC01



Programming Cable:PR02



Earphone:EHK01

Care and Maintenance

Questions and Answers

Problem	Solution
No Power	● The battery power may be insufficient. Please replace or change the battery pack.
The battery power consumes quickly after charge.	● The battery life is finished. Please change for new battery.
Can not communicate with other members.	● Please check if your frequency and CTCSS/CDCSS/2 Tone are the same with other members in your group. ● Maybe you are too far away from other members. Please check if you are within communication range.
Voices of non-group members are heard on the channel.	● Please change CTCSS/CDCSS, and change those of your members, too.
No sound when transmit or the sound the partner received is very low.	● Please check if the volume is turned to its highest level. ● Ask your local dealer to check if the MIC is in good condition.
The noise is always heard on the channel.	● You may be too far away from other members and can not receive. Please get close to your members and try again.

Maintenance

Your radio is a product with excellent design and technology, please treat it with care. These recommendations can help you effectively use the radio.

- Keep the radio dry. Rain, moisture or other liquid may cause damage to the radio.
- Do not throw, hit or vibrate the radio. Brutal treatment may damage the inner IC or other elements.
- Do not hold the radio by the antenna or external MIC.
- Please use the original or standard antenna. Unapproved antenna or modifications of accessories may cause damage to the radio.
- Use lint-free cloth to clean the dust or stains on the radio.
- Cover the earphone/microphone pad when not using the radio.
- Use mild detergent (not corrosive chemicals) and cloth to clear the casing, control knob and keyboard after long-time use.



Note:
All recommendations above also refer to your battery, charger and accessories. If any of them works abnormally, please send it to nearest service center.

Service and Support

Shenzhen HQT Science & Technology Co., Ltd. provides longtime support for its products, including repair and supply of the radio and its parts.

Service Commitment

1. HQT two-way radio body has an 18-month guarantee; accessories (battery, charge adapter, charger and antenna) 6 months; earphone 3 months.
2. Replacement is available subject to the presentation of fully-filled warranty card or original purchasing invoice in case that the radio cannot work normally due to non-personal cause within the guarantee.
3. Replacement and repair is available subject to the presentation of fully-filled warranty card or original purchasing invoice in case that the radio or accessories cannot work normally within 30 days from the purchase date.
4. The repaired parts has its own guaranty or 90-day guaranty from the repair date. The longer one is valid.

Warranty

1. The guaranty is only valid under normal use. And

guaranty is unavailable under such conditions: dissembling or modifications, damages caused by outside force, water let-in, fire burning, and usage of unapproved accessories or antenna, not according to the instruction manual and so on.

2. The guaranty is in effect from the purchase date on the invoice.
3. Free repair is unavailable if the HQT mark or Serial Number mark is torn off.
4. Only the fully-filled warranty card and original purchasing invoice with HQT's seal or dealer's seal affixed is valid for identifying the guarantee.

Cautions

1. Read the user manual before use.
2. Do not use the radio with damaged antenna. Use the radio only with standard antenna.
3. Turn off the radio in potential dangerous environment.
4. Avoid the contact between battery and metal objects, oily objects or corrosive objects.
5. Do not dip the radio or battery into water or throw them in fire.
6. Use the radio only with standard battery, adapter, charger and earphone.

Terms of Warranty

1. HQT two-way radio body has an 18-month guarantee; accessories (battery, adapter, charger and antenna) 6 months; earphone 3 months.
2. Only the fully-filled warranty card or original purchasing invoice with HQT's seal or dealer's seal affixed is valid for identifying the guarantee. (The invoice should give clear indication of accessories, radio, serial-number, purchasing date, purchasing price and other items.)
3. If the radio body went wrong within the guarantee, it should be ensured to work normally over 30 days after the repair.
4. Replacement and repair is available subject to the presentation of fully-filled warranty card or original purchasing invoice in case that the radio cannot work normally as the instruction says within 30 days from the purchase date. (Note that there must not be visible abrasion on radio body and accessories.)
5. Replacement of the same model is available subject to the presentation of 3-time repair receipt in case that the radio body still work abnormally after three-time-or-above repairs within the guarantee.
6. Repair of accessories (battery, adapter, charger and antenna) is available to the presentation of both fully-filled warranty card and original purchasing invoice.
7. The cost of materials and repair are covered during the time of guarantee.

8. Guarantee is unavailable in case that the HQT mark or the serial-number mark is torn off.
9. Guarantee is unavailable in cases below:
 - 1) Beyond the warranty period;
 - 2) Defects or damages under abnormal use;
 - 3) Defects or damages because of misoperation, accident, water penetration and carelessness;
 - 4) Defects or damages because of incorrect testing, operation, repair, installation, reconfiguration or adjustment;
 - 5) Defects or damages to antenna because of non-material or non-processing problems;
 - 6) Defects or damages because of unauthorized repair and disassembling;
 - 7) Product that the serial-number mark is torn off or unable to identify;
 - 8) Product with unclear purchasing date;
 - 9) Battery under such conditions:
 - a. Any damages or unsealing to the battery pack;
 - b. Defects or damages to battery because of charging with improper equipment or use beyond regulated maintain condition;
 - 10) Abrasion under normal use.

Note: The warranty ordinance, which is in accord with Chinese warranty regulations, will be modified properly according to marketing. If modified, the warranty ordinance is subject to our latest updating notice issued by HQT service center.

Appendix

Appendix 1: Specification

Item	TH-2800
Frequency Range	136~174MHz 400~470MHz
Channel Capacity	16(15+S)
Channel Spacing	12.5kHz
Frequency Stability	≤ ± 2.5ppm
Operating Temperature℃	-25℃~ +55℃
Antenna Impedance	50Ω
Operating Voltage	DC6.6~8.4V

Item	TH-2800
RF Output Power	5W/1W
Audio Distortion	≤ 5%
Sensitivity	0.2uV (≥18dB)
Max Audio Output Power	≥ 700mW
Dimension (H×W×D)	105×60×33mm
Weight (with antenna & battery)	225g
Li-ion Battery	1600mAh

Appendix 2: Frequency Chart (Used to record the frequency.)

Model:
Serial number:

Channel	Tx Frequency	Tx CTCSS/CDCSS	Rx Frequency	Rx CTCSS/CDCSS	Optional Signaling
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

Appendix 3 : Technical Terms

Name	Description
Standby	The radio is in receiving mode when no key is operated.
CTCSS /CDCSS	CTCSS/CDCSS is a kind of signaling attached to audio signal. If CTCSS/CDCSS of the transmitter is the same as that of the receiver, the speaker is unmuted and the sound comes out. Otherwise the sound can not come out.
Battery Save	If there is no signal being received or no operation being conducted for some time, the radio will enter into power saving mode. In this mode, the radio will stop working at regular intervals to save power.
TOT	The time out timer is used to prevent someone from using the same channel for a long time and meanwhile avoid damage to the radio due to long-time transmission.
Squelch	This is to solve the problem of talk quality and noise. Squelch is to suppress the background noise and keep the radio quiet when no signal is received. It can mute the radio when no signal is received. Turn on the Squelch, and you will hear the sound from the speaker.

Squelch On	Under such condition, the radio is receiving all the audio signals (even if the signal is noise signal.)
Monitor	This function enables you to hear all the calls even with unmatched CTCSS/CDCSS.
Scan	A way to hear conversations on all channels.
BCL	When this channel is in use by other users, your radio is prohibited to transmit on the channel to avoid interference.
VOX	VOX enables user to speak into the radio without pressing [PTT] key and the sound is transmitted.
Wired Clone	This is a way to clone parameters from one radio to another one.
Revert Channel	Revert channel refers to the current working channel when pressing [PTT] key during scan.

Safetytraining Information



Your radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as "ccupational Use Only" meaning it must be used only during the course of employment by individuals aware of the hazards, and the ways to minimize such hazards. This radio is NOT intended for use by the "eneral Population" in an uncontrolled environment.

This radio has been tested and complies with the FCC RF exposure limits for "ccupational Use Only" In addition, your Shenzhen HQT Science&Technology Co.,Ltd. radio complies with the following Standards and Guidelines with regard to RF energy and electromagnetic energy levels and evaluation of such levels for exposure to humans:

1. FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to

Radio Frequency Electromagnetic Fields.
 2. American National Standards Institute (C95.1-1992), IEEE Standard for Safety Levels with Respect to Human Exposure
 to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.
 3. American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields-- RF and Microwave.
 4. The following accessories are authorized for use with this product. Use of accessories other than those (listed in the instruction) specified may result in RFexposure levels exceed the FCC requirements for wireless RF exposure.



To ensure that your expose to RF electromagnetic energy is within the FCC allowable limits for occupational use, always adhere to the following guidelines:

1. DO NOT operate the radio without a proper antenna attached, as this may damaged the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or antenna specifically authorized by the manufacturer for use with this radio.
2. DO NOT transmits for more than 50% of total radio use time ("50%duty cycle"). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the "TX indicator" lights red. You can cause the radio to transmit by pressing the "PTT" switch.
3. ALWAYS keep the antenna at least 2.5 cm (1 inch) away from the body when transmitting and only use the HYT belt-clip which is listed in instructions when attaching the radio to your belt, etc., to ensure FCC RF exposure compliance requirements are not exceeded. To provide the recipients of your transmission the best sound quality, hold the antenna at least 5 cm (2 inches) from your

mouth, and slightly off to one side.
 The information listed above provides the user with the information needed to make him or her aware of RF exposure, and what to do to as*sure that this radio operates with the FCC RF exposure limits of this radio.
 Electromagnetic Interference/Compatibility
 During transmissions, your Shenzhen HQT Science&Technology Co.,Ltd. radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so. DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.
 Occupational/Controlled Use
 The radio transmitter is used in situations in which persons are exposed as consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

FCC Caution:

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 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.