Thanks for selecting the QP-250 two way radio,This unit have a very attractive design:**SMALL AND LIGHT, IT HAS A POWERFUL SPEAKER WITH A DIAMETER OF 40MM TO ENSURE SHARP AND CLEAR SOUND WHEN YOU ARE TALKING.**

The design follows the IP54 standard with a high level of protection against water damage and dust.The radio should keep working properly even in adverse conditions.

We are very confident that you will find the QP-250 radio a reliable unit,able to efficiently satisfy your communication needs.

Please read this User manual for detailed information on how to operate the product correctly.

ATTENTION

This device complies with parts 15 of 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.

Table of contents

List for radio and accessories

After you read the information of the QP-250 radio,please open the box, and then confirm that all radio parts are included ,and in good shape. Otherwise contact your reseller.
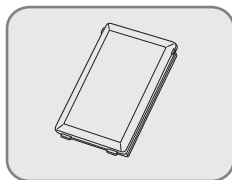
Radio and accessories

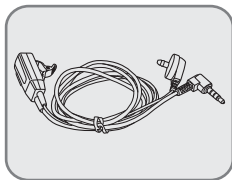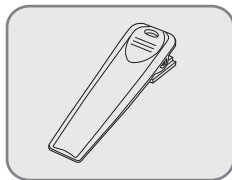| Parts	Quantity
Radio	1
Battery	1
Belt-clip	1
Adaptor	1
Earphone	1
Holding Strap	1
User manual	1

List for radio and accessories
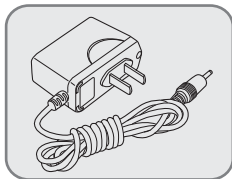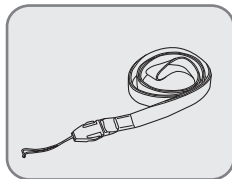
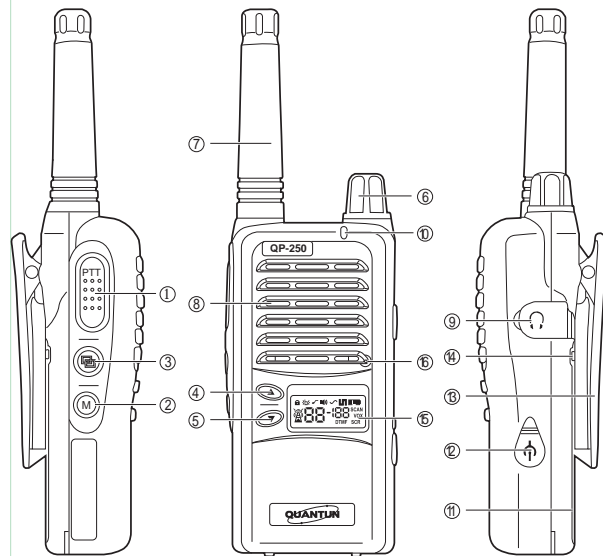## Photo for radio and accessories

Radio

Battery

Earphone

Belt-clip

Adaptor

Holding Strap

Brief introduction of Radios

Panel structure Description

QP-250

QUANTUN

⑦ ⑥ ⑩ ⑧ ① ③ ④ ⑤ ⑨ ⑯ ⑭ ⑬ ⑫ ⑪
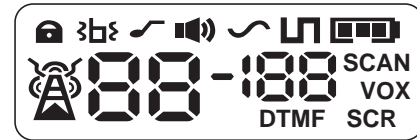
1. PTT SWITCH: Push and hold to transmit, Release to receive

2. MONITOR BUTTON: Push to turn on/off monitor

3. MENU KEY: menu button for parameters setting

4. UP KEY: Plus key for parameters setting

5. DOWN KEY: Minus key for parameters setting

6. POWER ON/OFF VOLUME CONTROL KNOB:

  Turns power ON and adjusts the audio level

7. ANTENNA

8. SPEAKER: Internal radio Speaker

9. EARPHONE JACK: connect external speaker and microphone

10. TX/RX LED: Red means Transmit, Green means Receiver

                or Squelch opened

11. BATTERY

12. CHARGER JACK: connect external power adaptor

13. BELT-CLIP

14. BATTERY MOUNT

15. LCD

16. MIC: Internal radio MIC

The contents for LCD

Icon	Name	Icon	Name
🔒	KEYPAD LOCK	**SCAN**	SCAN FUNCTION
⸰ʋ⸰	VIBRATION	**VOX**	VOX FUNCTION
⌒	ALERT	📡	TX OR RX
🔊	AUDIO OPENED	**DTMF**	Not available
⌒	CTCSS	**SCR**	Not available
⊔	DCS	88-188	CHANNEL AND CTCSS/DCS
🔋	BATTERY DISPLAY		

Standard Features

1. **RF power: 2w**

2. **32 Channels, Programmable 25 /12.5 KHz Channel Spacing**

3. **9 - Levels Squelch selectable**

Helps to increase or decrease receiver sensitivity.

4. **Voice Operated Transmit (VOX)**

Enjoy the convenience of hands-free operation when used
with the corresponding optional accessory.

5. **CTCSS/CDCSS**

Set up workgroups/users with unique CDCSS/CTCSS codes
to prevent groups or users of interference with each others.

6. **Monitor**

Allows you to monitor channels for activity

7. **Normal Scan & Memory Scan**

The radio will scan all channels when using normal scan
and memory channels when using memory scan.

8. **Low Battery Alert**

Audible tone and visual display tell you when the battery is
running down

9. **Time-out Timer (TOT)**

The feature allows for more efficient use of channels by limiting
the amount of time of each transmission

10. **Battery Save**

The radio will enable battery save feature in standby mode.
Pressing any key or receiving a signal will restore the radio
to normal operation.

11. **Busy Channel Locked**

A channel already in use is not available to other users

12. **Wired Clone**

Easily copy the features of one radio to another

13. **Squelch Tail Elimination**

The function will minimize the annoying audio outputs that
occur at the receiver on completion of a transmission.

14. **LCD backlight and with**

Backlight for Nighttime Operation

15. **PC Programmable**

You are able to customize the features of each radio for each
user

16. **Wall-adaptor charge**

Main board with charging control. Can be charged from wall adaptor directly

17. **Superior Audio**

A powerful speaker with a diameter of 40mm ensures clear, crisp and strong audio, even in noisy environments.

18. **Vibration**

This feature can be selected to use on noisy and other special environments

QUANTUN model list

Model	Frequency range (MHZ)	RF power	Battery	Adaptor
QP-250(V)	146-174MHZ	2W	QP-250-1500	TC-02
QP-250(PMR)	446-447MHZ	2W	QP-250-1500	TC-02
QP-250(U)	450-470MHZ	2W	QP-250-1500	TC-02

Belt clip installation

Hold the radio in one hand,
and push the belt-clip down
in the allocated slot.
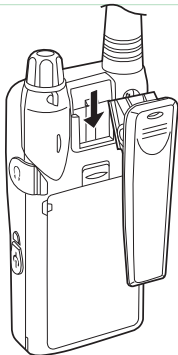
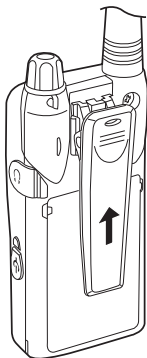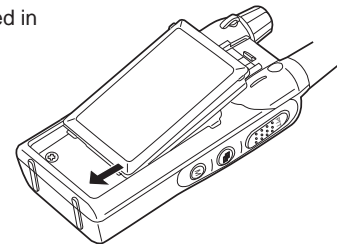### Belt clip removal

Raise the Snap with the
finger, and push the clip
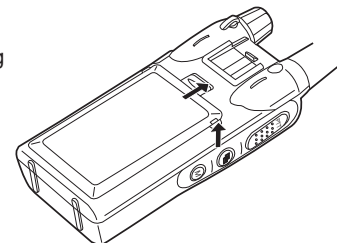up to separate from radio.

Battery installation

Place the battery parallel to
the back of the radio and slide
in it,then press till it is locked in
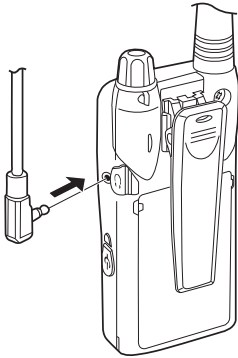place.

Battery removal

Push down with the finger the
battery latch,separate the
battery from the radio using
both hands

Notice for the use of headphones

When using the headphones, Begin with adjusting the volume
to your comfort level.
Remove the rubber cover exposing the Accessory connector
and insert the plug in straight line into the radio with the cable
up parallel to the antenna as shown on picture to ensure proper
connection.when removing the accessory,do not pull by the
cable,since this could put an additional stress on the device,
shortening it's life span.

Battery life NOTES

When you use a battery for the first time,or one that has been
in storage for a long period,make sure it is properly charged
before placing it in service.
If you notice that,while transmitting ,the Battery Icon starts
flashing,that is an indication that the battery is running out of
energy and requires to be replaced or recharged

Attention:

- *Please use the indicated batteries and chargers, the use of other units can damage the device or even generate an explosion*
- *Do not allow metal objects to contact the battery terminals, or dispose the battery in fire, Do not try to open the battery,It is not a repairable item*
- *The battery should be charged in an ambient temp between 5* to 40*,outside the range,the battery will not be fully charged.*
- *When in charging mode, do not use the radio.*
  If the radio battery is not fully charged ,do not remove the adaptor plug.
- *The battery ,after fully charged ,Should last about 8 hours of average use ,after that is should be recharged.*
- *if the radio or the battery is wet,please do not connect them to the charger,to avoid additional damage.*

Charging operation

1. Plug the DC head of the adaptor into the DC jack of the radio.

2. Plug the adaptor on the AC power outlet to keep normal charging.

3. When the radio is power on, Battery icon on the LCD begins flashing, until the battery icon change to normal display (stop flashing), It means fully charged, unplug the DC head to use radio.

3. When the radio is power off, the LED charges to red; when the LED charges to green, It means fully charged.

1. Open the radio

The radio will self-inspect for 1 second first, including full-screen display, backlight lamps lit, and then issue a prompt start-up (three pitch).

2. After the self-inspection, LCD will show the last state before Power off.

3. Press PTT button, then transmitting, if the VOX is opened, Then you will just talk to the MIC and transmitting, when transmitting, the LED will change to red. And " 📡 " will be Transmitting state.

4. When Receiving, The LED will change to green, and " 📡 " will be Receive state. When Vibration is opened and the signal is received, the radio's speaker will be audible, and the radio will be 2 seconds vibration, one second stop, the cycle will be repeated until the monitor key is pressed;

If the CTCSS or DCS for Receiver and the Transmitter are not the same, Receiver will not hear anything except for green light.

5. When Battery voltage is less than 3.2 V, LCD will show "OFF", the radio will stop transmit and Should be promptly charged. When charging, the " ▦ " starts flashing, the radio can receive, but cannot transmit.

6. The keypad has two modes of operation

a. **CH MODE**

when the radio is turned ON, press MENU button shortly, the radio will be the CHANNEL MODE, press [🔼] or [🔽] button to select the desired channel.

b. **Function MODE**

when the radio is turned on, press MENU button with 2 seconds, the backlight will also be on, and the radio will be on Function MODE .You can now set up the required options with [🔼] and [🔽] button.

Select	Function		Enter	Options		Confirm
Press UP or DOWN	*BEEP	bP-OF	Press MENU	*	ON and OF	Press MENU To confirm
	*DCS	dC-OF		*	d¡ - (1-105) dn - (1-105)	
	*CTCSS	Ct-OF		*	Ct -(1-50)	
	*DCS/CTCSS Conversion	Cd-OF		*	Cd-dC DCS Cd-Ct CTCSS	
	*Squech Lever	SO-00		*	1-9 level	
	*Busy	bC-OF		*	ON and OF	
	*VOX	UO-OF		*	1-16 level	
	*Vibration	SH-ON		*	ON and OF	

Keypad locked function

Press "MENU+MONI", LCD will show " 🔒 " , you can use PTT and MONI button only, Press "MENU+MONI" again, the keypad will be unlocked.

Scan function

Press "MENU+DOWN", LCD will show " **SCAN** " , the radio will begin to scan, When stop in the channel Scan, Press "UP+DOWN" button and will scan in a row. Press "MENU+DOWN" again, the scan function will be off.

Safety and General Information

SAFETYTRAINING INFORMATION

Your **QUANTUN** radio generates RF electromagnetic energy during transmit mode. This radio is designed for and classified as "Occupational 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 "General Population" in an uncontrolled environment.

This radio has been tested and complies with the FCC RF exposure limits for "Occupational Use Only". In addition, your **QUANTUN** 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:

- FCC OET Bulletin 65 Edition 97-01 Supplement C, Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields.
- 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.
- American National Standards Institute (C95.3-1992), IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields– RF and Microwave.
- The following accessories are authorized for use with this product. Use of accessories other than those (listed in the instruction) specified may result in RF exposure levels exceeding 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:

- **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.
- **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.

- **ALWAYS** keep the antenna at least 2.5 cm (1 inch) away from the body when transmitting and only use the QUANTUN 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 **QUANTUN** 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.

OPERATING NOTES

- When transmitting with a portable radio, hold the radio in a vertical position with its microphone 5 to 10 cm (2 to 4 inches) away from your mouth. Keep the antenna at least 2.5 cm (1 inch) from your head and body.
- If you wear a portable two-way radio on your body, ensure that the antenna is at least 2.5 centimeters (1 inch) from your body when transmitting.