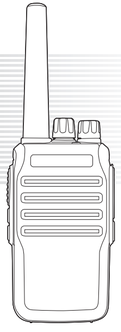
USER'S MANUAL



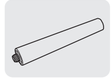
TWO-WAY RADIO

- TOT(Time-out-Timer) •Scan Function • English Voice prompt
- Battery Saving function •Low voltage prompt •VOX function
- Busy Channel Lock •Wide/Narrow width selectable
- Scrambler function

Unpacking and checking equipments

Carefully unpack the radio. We recommend you check the items listed in the following table before discarding the package. If any item is missing or has been damaged during shipment, please contact us immediately.

Supplied accessories:



Antenna (1)

Li-ion battery (1)

Belt Clip (1)

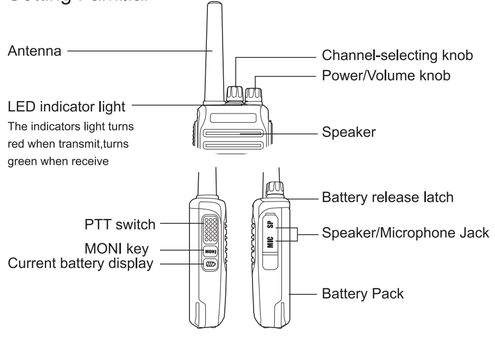
Charger (1)

Verification (1)

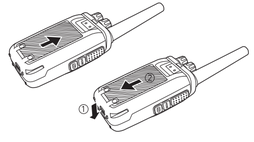
User's manual (1)

Note: The antenna frequency range please refers to the annular label at the bottom of antenna.

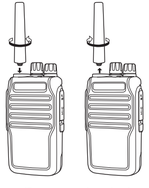
Getting Familiar



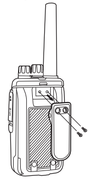
Install The Battery



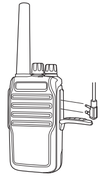
Install Antenna



Install Belt Clip



Installing Earphone/Programming Jack



BASIC OPERATION

Indicator Light

It turns red in transmitting and turns green in receiving

Channel-selecting knob

Rotate this switch to select channels 1–16, counter–clockwise to reduce the channel value. If the channel is rotated to the empty one, an alarm tone will sound.

Power/Volume knob

Rotate clockwise the power/volume Knob to turn on the radio.
Rotate the power/volume knob counter–clockwise, a "click" tone sounds and it powers off.
When it powers on, continue to rotate the knob to adjust the volume.

PTT Switch

To transmit, please press the [PTT] switch and speak to the microphone in a normal voice, the indicator lights red. If the channel does not set a transmitting frequency, a beep sound is heard and red light on.
Release the [PTT] switch to receive. You can hear the voice when there is a signal in the current channel and the indicator lights green.

Squelch Function

The squelch level will determine the signal strength to open the speaker of the radio. If the squelch level is lower, the background noise of opening the radios speaker will be higher, and the corresponding communication range will be further, but the anti–interference capacity will be weaker.
The default setting of squelch level is 5, you can adjust it through the menu "Squelch Level" in the software. Level 0–9 can be selected. 0 is the lowest level.

TOT(Time Out Timer)

The purpose of TOT is to prevent any radio from talking in one channel for a long time and to prevent the transceiver

from being damaged because of continuous transmission. If the transmitting time exceeds the TOT pre–set time, the walkie–talkie stops transmitting and a warning sound is heard. To stop the warning sound, please release the PTT switch and the walkie–talkie will return to the receiving state.

Scan Function

When scan turns on, rotate the channel–selecting knob to channel 16, radio will detect automatically from channel 1 to channel 16 which can be scanned (the programming software can define each channel to be swept or not), if the scanned channel has signal, it will stop in the channel for talk.
Note: a. the radio will stop on the channel which has signal, 10 seconds after the signal disappeared, the radio will scan next channel.
b. when the channels which can be scanned are less than 2 channels, radio cannot scan.
c. If you do not want to enter the scan on channel 16, please select "No" at "Scan Add" for each channel.

English/Chinese Voice Prompt

The voice prompt can be selected "Chinese/English/None" through the menu "Voice Annunciation" in the software. When choosing "None", voice prompt turns off.

Battery Save

This function can be set by the software (√Battery Save)
Turn on the function can make the standby time longer.

Low Battery Prompt

When transmitting or standby, if the battery capacity reaches the pre–determined low level, the indicator light blinks red, and a low battery alert tone will be heard.
The indicator tone can be "please charge the battery". When the low battery alert occurs, it can't transmit, please change or charge the battery

Busy Lock

If you set the busy lock,when you receive the signal and press PTT, it will forbid transmit ,and it will make the sound "di" until you release the PTT button

Wide/Narrow Bandwidth Setting

The default is wide band. You can select the wide band(25KHz) or narrow band (12.5KHz) through the channel information in the software.

VOX

Speak to the microphone in normal voice to transmit, no need to press PTT switch,turn VOX on/off though the software

A: When VOX is on in your working channel.
Speak to the microphone directly, it will transmit automatically.
The radio stops transmitting when there is no voice, and waits for receiving.
B: When a headsete with a microphone is used.
When VOX is on, you shoule VOX again for the radio to identify voice volume.
If the microphone is too sensitive, the noise around radio will start transmitting.
If the microphone is too sensitive, the radio can not collect your voice, Please adjust VOX level well to guarantee smooth communications.

Scrambler

When the radio is allowed the scramble function, and press the key, TX voice will be sent out with scramble, other radio only received the signal when its scrambler also turns on.

Changing Program Password

Users can set the new read and write program password by software.

QT/DQT(CTCSS/DCS)

QT and DQT is the sub–audio signaling,to prevent the radio from receiving unwanted signal in the same channel
When the QT/DQT is set,then within the communication range, you can only receive signals from the same channel with the same CTCSS/DCS setting. When the QT/DQT is not set,you will get all signals from the same channel within the communication range. You can set the QT/DQT through software.

TECHNICAL

GENERAL	Frequency range	400–470MHz
	Channel No	16
	Working voltage	3.7V
	Working temperature	–10° C~+50° C
	Antenna	high gain antenna
	Antenna Impedance	50Ω
	Dimension	113*59*34mm
TRANSMITTER	Frequency range	400–470Mhz
	RF power	2W
	Modulation type	16KF∁3E
	Spurious Radiation	≤7.5μW
	Modulation noise	<–40dB
	Modulation Distortion	<5%
	Frequency stability	5ppm
	Max Fr. Deviation	≤ ±5KHz
	Current	≤1200mA
	Audio Response	+6.5~–14dB
	Adjacent Ch. Power	≥65dB
RECEIVER	Frequency range	400–470Mhz
	Receiving Sensitivity	≤ 0.2μV
	Occupied Bandwidth	≤16KHz
	Selectivity	≥65dB
	Current	standby 55mA, working 150Ma
	Audio response	+7~–12.5dB
	Audio power output	>500m W