

Frequency range: 400-470MHZ
Up to 16 Channels
Chinese/English Language
Time-out timer(TOT)
Wide/Narrow band
Battery saving function
Busy Channel Lockout (BCL)
Low Battery Voltage Warning
Programmable by PC

PROFESSIONAL TWO-WAY RADIO

TO USER

Thank you for your favor with our products.

We are dedicated to providing high performance and high stability radio communication products. This two-way radio is no exception.This product is a small and delicate two-way radio developed and produced by a professional team to popularize the consumption market.Please read this manual carefully in order to fully understand the superior performance and methods of use and maintenance of this unit.

Function Introduction

Function Introduction :

1. Frequency range: 400-470MHZ

2. Up to 16 Channels

3. Chinese/English Language

4. 50 Groups CTCSS , 105 Groups of standard DCS

5. Time-out timer(TOT)

6. Wide/Narrow band

7. Battery saving function

8. Busy Channel Lockout (BCL)

9. Low Battery Voltage Warning

10. Programmable by PC

i

RECYCLED PACKAGING

User Safety Information

Please read the following information in order to use this two-way radio safely and efficiently.

1.The maintenance work of the two-way radio can only be carried out by professional technical personnel; assembly and disassembly without permission is prohibited;

2.To avoid problems caused by electromagnetic interference or electromagnetic compatibility, please turn off the two-way radio in places with the sign “Please turn off two-way radio”, such as hospitals and other health care facilities.

3.When taking airplane, please turn off the two-way radio when the crew request.

4.In automobile with airbags, do not place the two-way radio in the inflation area of the airbags.

5.Turn off the two-way radio before entering the flammable and explosive environment;

6.Do not replace or charge the battery in flammable and explosive environments;

7.Turn off the two-way radio before approaching the blasting area and detonator area;

8.Do not use the two-way radio if the antenna is damaged, or else it may cause minor skin burns;

9.Do not expose the two-way radio to direct sunlight or near the heating device.

10.While the portable two-way radio is transmitting, keep the radio in a vertical position and keep the microphone about 5cm from the mouth.

11.Keep the two-way radio at least 2.5cm from the head or body during transmitting.

12.If you are wearing the portable two-way radio on your body, make sure that the antenna is at least 2.5cm away from the body when the two-way radio is transmitting.

13.If the two-way radio has any odor or smoke, turn off the power immediately and contact your dealer.

ii

Familiarity with the machine

PTT
Loudspeaker
+ key
- key

State indicator lamp
MIC
Mic/Spk/Write Frequency Port
Microphone

Mic/Spk/Write Frequency Port
Microphone

01

Function Operation

SQUELCH LEVEL

The purpose of Squelch is to mute the speaker when no signals are present (Squelch OFF). With the squelch level correctly set, you will hear sound only while actually receiving signals (Squelch ON). The squelch level can be adjusted via program software.

The frequency of squelch is 0 (on) -9 (deep), steps: 1.

Battery Saving

a.ON: Entering into the battery saving state automatically without any operation for 10 seconds.

b.OFF: Battery saving is off.

Busy Channel Lockout (BCL)

Switch on or off each effective channel busy lockout function via PC programming software.

When open this setting, signal from the current channel is banned to transmit.

Voice broadcast

Turn on or off through PC software Settings.

ON: when the voice switch is on, the function and channel number are voice broadcast for each channel.

Function Operation

Off: when the voice switch is off, There will be no voice broadcast on each channel.

Low Battery Voltage Warning

When the voltage is lower than the present value, a prompt "Please change battery" is issued every 10 seconds, press the PTT buttons is invalid and make "Di" sounds.

Chinese and English choice

Set Chinese or English language through PC software.

VOX

a. VOX function is effective when the function is turn on.

b. VOX gain level: When the sound level is higher than the set level of VOX, VOX automatically transmit. The VOX gain level can adjust from 1 to 5 levels.

c. When a signal is received, VOX will not transmit even if the sound level is higher than the set VOX gain level.

Function Operation

QT / DQT

The radio' s QT/DQT for each channel can be program by software. When the channel set the QT/DQT, the radio squelch open only if it receives a signal that uses the same QT or DQT. The radio squelch does not turn on if the same channel uses different QT / DQT calls, only lights in green, sub-CTCSS 50 groups, and digital sub-audio DCS 105 groups.

A. QT: (50 in total)

67.0	88.5	114.8	151.4	177.3	203.5	250.3
69.3	91.5	118.8	156.7	179.9	206.5	254.1
71.9	94.8	123.0	159.8	183.5	210.7	
74.4	97.4	127.3	162.2	186.2	218.1	
77.0	100.0	131.8	165.5	189.9	225.7	
79.7	103.5	136.5	167.9	192.8	229.1	
82.5	107.2	141.3	171.3	196.6	233.6	
85.4	110.9	146.2	173.8	199.5	241.8	

Function Operation

B. QT: (50 in total)

D023N	D072N	D152N	D244N	D311N	D412N	D466N	D631N
D025N	D073N	D155N	D245N	D315N	D413N	D503N	D632N
D026N	D074N	D156N	D246N	D325N	D423N	D506N	D645N
D031N	D114N	D162N	D251N	D331N	D431N	D516N	D654N
D032N	D115N	D165N	D252N	D322N	D432N	D523N	D662N
D036N	D116N	D172N	D255N	D343N	D445N	D526N	D664N
D043N	D122N	D174N	D261N	D346N	D446N	D532N	D703N
D047N	D125N	D205N	D263N	D351N	D452N	D546N	D712N
D051N	D131N	D212N	D265N	D356N	D454N	D565N	D723N
D053N	D132N	D223N	D266N	D364N	D455N	D606N	D731N
D054N	D134N	D225N	D271N	D365N	D462N	D612N	D732N
D065N	D143N	D226N	D274N	D371N	D464N	D624N	D734N
D071N	D145N	D243N	D306N	D411N	D465N	D627N	D743N

Function Operation

D754N	D072I	D155I	D246I	D331I	D432I	D526I	D703I
D023I	D073I	D156I	D251I	D322I	D445I	D532I	D712I
D025I	D074I	D162I	D252I	D343I	D446I	D546I	D723I
D026I	D114I	D165I	D255I	D346I	D452I	D565I	D731I
D031I	D115I	D172I	D261I	D351I	D454I	D606I	D732I
D032I	D116I	D174I	D263I	D356I	D455I	D612I	D734I
D036I	D122I	D205I	D265I	D364I	D462I	D624I	D743I
D043I	D125I	D212I	D266I	D365I	D464I	D627I	D754I
D047I	D131I	D223I	D271I	D371I	D465I	D631I	
D051I	D132I	D225I	D274I	D411I	D466I	D632I	
D053I	D134I	D226I	D306I	D412I	D503I	D645I	
D054I	D143I	D243I	D311I	D413I	D506I	D654I	
D065I	D145I	D244I	D315I	D423I	D516I	D662I	
D071I	D152I	D245I	D325I	D431I	D523I	D664I	

Technical Specification

General			
Frequency range	UHF400–470MHz	Operation temperature	–20℃—+50℃
Memory channels	16 Groups	Mode of operation	Simplex
Operation voltage	DC 3.7V	Antenna impedance	50 Ω
Frequency stability	± 2.5ppm		
Transmitter		Receiver	
RF Power	2W	Sensitivity	<0.16uv (12dB SINAD)
Maximum deviation	≤ ± 5KHz	Squelch Sensitivity	<0.2uv
Spurious emission	≤ –60dB	Audio power	≥380mW
Transmission current	≤1000mA	Audio distortion	<10%
Preemphasis Character	6dB per octave	Intermediation(W/N)	≥65dB
		Receiver current	≤380mA

Note: The above specifications/technical instructions are for reference only because of the continuous improvement of the technology. Please refer to the physical object.