

Functions 1. Frequency band: FM88.1-108MHz(Receive) VHF 108-136MHz(Only AM receive) VHF 136-174MHz(RX)&144-148MHz(TX)

UHF 400-520MHz(RX)&420-450MHz(TX)

- 2. Working mode: Frequency mode/Channel mode 3. FM Radio
- 4. Dual standby 5. 50 CTCSS/105 DCS
- RX CTCSS/DCS, TX CTCSS/DCS can be set individually
- . Voice encryption(Frequency Hopping) 9. Frequency Step: 2.5K/5K/6.25K/10K/12.5K/20K/25K/50K
- 10. Battery saving 11. Reverse Frequency / Talk around
- 13. Busy channel lockout
- 14. Low battery alert / Voltage display
- 15. Automatic backlight 16. Channel display: Frequency/Channel/Channel name
- 17. Scan: Time/Carrier/Search 18. Frequency mode: Frequency difference+/Frequency difference-
- 19. Frequency mode: Frequency difference range: 0-99.9995MHz
- 20. Frequency mode: Edit/Save channel specs 21. 256 memory channels
- 22. Emergency
- 23. Frequency scan 24. DTMF

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Enter Menu, then select option in menu list Power/Volume on-off [ ] Long press to quickly change menu option, in Scan mode, change scan direction Anticlockwise rotation: Power off/Volume-

[ ■ ]Long press to quickly change menu option, in Scan mode, change scan direction

[ 😱 ] In the input state, clear the information that has been input

Numeric keypad

Input information while in programming menu or input non-standard CTCSS/DCS if need[••]key

Short Press: Switch Reverse Frequency / Talk around /Normal mode

Long press(Over 2 seconds): Active frequency/channel Short press: DTMF edit. Use \* key to end if less then 6

In FM mode, scan FM

Long press: Lock/unlock keypad

[SOS] Key

Long press to enter this function, short press to exit this function

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clockwise rotation: Power on/Volume+

Status Indicator TX- Red light

25. GPS (optional)

27. PC Programming

Keypad description

Short press: Switch A/B band

Keypad function

Functional keypad

Select/confirm [ 🕡 ]

26. Boot interface customization

28. Wireless programming via Bluetooth(optional)

1!< 2 ABC 3 DEF \*\*

4 GHI 5 JKL 6 MNO 0 **企** 

7 PORS 8 TUV 9 WXYZ # 5

ong press: In channel mode, switch channel display mode

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Short press: Switch frequency mode and channel mode

ong press: Turn on/off ANI name display function

RX- Green light

Screen display

External Jack Earpiece or programming cable

Side key 1(PTT): Short press to exit SOS mode while in

Side key 2: Set functions via programming software Side key 3: Long press to active MONI mode. Set function for short press via programming software 2. Muti keys function

1750Hz Tone: PTT + MONI

DTMF: PTT+ numeric keys+ to transmit DTMF 0-9, ABCD\*#

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Screen display and Menu list Screen display 144, 12500 :27 144, 12500 ::/

Icon	Description			
CT	CTCSS display			
DCS	DCS display			
+	Frequency difference +			
-	Frequency difference -			
DS	Dual standby			
0	VOX			
R	Reverse Frequency			
Т	Talk Around			
N	Narrow Band			
	Battery level display			
8	Keypad lock			
Н	High Power			
L	Low Power			
ı	Tone while DTMF transmitting			
AM	AM Mode			
to to	FM Mode			
*	Bluetooth turn on			
GPS	GPS turn on			
	Transmitting power			
UOL	Indicates the amplitude of audio transmission when transmitti and the signal strength when receiving			

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144.12500 127 Menu Menu List Chinese Description 2nd menu List characters SQL 静噪等级 Better set as medium 5. 00K 6. 25K 10. 00K STEP 步进频率 12. 50K 20. 00K 25. 00K 50. 00K 2 MEMCH 信道存储 000, •••, 256 DELCH 信道删除 -6-



16	VOICE	语音提示开关	0FF	Turn off voice prompt
			ON	Turn on voice prompt
17	BEEP	哔音开关	0FF	Turn off operation prompt
			ON ENGLISH	Turn on operation prompt
18	LANGUAGE	菜单语言	Chinese	English Chinese
			0FF	0FF
19	BCL	繁忙锁定	ON	ON
20	SC-REV	扫描模式	то	Time scanning, the walkie-talkie pauses scanning when it detects a signal, and after staying stopped for about 5 seconds, the walkie-talkie will continue scanning even if the signal is still there.
			со	Carrier scanning, the two-way radio passes scanning when a channel is detected and keeps it on the same frequency until the signal disappears. There is a 2 second delay between the disappearance of the signal and the resumption of scanning to allow time for the response to begin transmission.
			SE	Search scaning. the walkie-talkie exits scanning when it detects a signal and stays at this frequency.
21	PF2	侧键 2 短按功能设置		
22	PF2 LONG PRESS	侧键 2 长按功能设 置		
23	PF3	侧键 3 短按功能设置		
24	ABR	自动背光灯时间设 置	0N 5S, 10S 3Min,	Background light is always on Time between the background light ON to automatically OFF.
25	OFFSET	频差频率	00. 000, ···, 9 9. 995	In frequency mode, the difference between the transmitting and receiving frequencies
26	SFT-D	频差方向	0FF	In frequency mode, turn off the difference between the transmitting and rece- iving frequencies
			+	In frequency mode, the TX frequency=RX frequency plus frequency difference
			_	In frequency mode, the TX frequency=RX frequency minus frequency difference

27	SCAN CTCSS	扫描模拟亚音		
28	SCAN DCS	扫描数字亚音		
29		扫描亚音频存储	ALL	ALL
	CDCSS SAVE MODE		RX	Receiving
			TX	Transmitting
	POWER ON MSG	开机画面选择	L0G0	Photo
30			VOL TAGE	Battery voltage
31	ANI NAME	本机名称选择	NUM1···NUM60	No. 1No. 50 radio. The radio na of 51-60 can be set
32	S-CODE	DTMF 信息码	1, 2, 3 15	
			0FF	Turn off
			BOT	Press PTT to transmitting DT
33	DTMF CODE	上下线码	EOT	Release PTT to transmitting DT
			BOTH	вотн
34			0FF	No DTMF prompt when press key to transmitting DTMF
	DTMFST	侧音开关	DT-ST	DTMF prompt when press key to transmitting DTMF
			ANI-ST	DTMF prompt when automatically transmitting DTM
			DT+ANI	DTMF prompt when automatically transmitting DTMF and press ke to transmitting DTMF
			0FF	Turn off auto keypad lock
35	AUTOLK	自动键盘锁	58、108、158	Turn on the keypad timing automatic lock function
36	SCAN ADD	信道扫描添加		
37	TONE	TONE 音	1000, 1450, 1750, 2100Hz	
38	PTT-LT	发码附加延迟	0, 100,, 10	Delay time before automatic DTMF transmitting
39	MENU EXIT TIME	菜单自动退出时间	5, 10, 60S	Control the time of menu automatically exit
40	VOX DELAY	声控延时	0. 5SEC 2. 0SEC	
41	RP_STE	过中继尾音消除	OFF	Due to the delay of the repeater, noise appears when receive instant signa

			1, 2, 3, 4, 5, 108	OFF: Adjust to el iminate the tail. If want to ensure if the repeater is work or not, set OFF.
			OFF	OFF: Adjust the length of time the tail sound appears, if not needed, set it to off.
42	RPT-RL	过中继尾音延时	1, 2, 3, 4, 5, 10S	
43	ANI FUNCTION	身份码功能	0FF	Turn off
			ON	Turn on A band displays as,
			CH	A band displays as channel in channel mode
44	MDF-A	A 段显示模式	NAME	A band displays as channel name in channel mode
			FREQ	B band displays as freq- uency in channel mode
	MDF-B	B 段显示模式	СН	B band displays as channel in channel mode
-10			NAME	band displays as channel name in channel mode

46	TDD	双频守侯	0FF	Turn off
	TDR		ON	Turn on
47	TX-A/B	双守发射选择	0FF	In dual standby mode, transmitting current frequency ban
				In dual standby mode, press PTT to transmitting A band for cross-band TL/RK
			А	In dual standby mode press PTT to tra- nsmitting B band for cross-band TX/RX
			В	After releasing the PTT, the radio will send a turn-off code to suppress the instant noise of the receiver.
48	STE	尾音消除	OFF	After releasing the PTI. the radio will send a turn-off code to suppress the instant noise of the receiver.
			ON	After releasing the PTT, the radio will send a turn-off code to suppress the instant noise of the receiver.
		报警模式	SITE	On-site Emergency
49	AL-MOD		SOUND	Send emergency voic
			CODE	Send emergency code
50	CDS	CDC 学位	0FF	Turn off
	GPS	GPS 定位	ON	Turn on
51	BLUET00TH	蓝牙写频	0FF	Turn off
		监才与频 	ON	Turn on
52	DISPLAY	接收时间显示	0FF	Turn off

Note: When entering the menu, take note of whether to set A band or B band.

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Menu operation 1) Press 🚇 , then enter menu via up/down key. 2) Press again to enter the menu function

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3) Select option via up/down key. 4) Press to confirm and back to main menu 5) Press 🔹 to exit menu and back to normal working

mode.

Note: Step, TX power, W/N band, CTCSS/DCS,

Other function description 1. Dual PTT

frequency different etc. only set valid in frequency mode.

Set side key2 as PTT-B, press PTT to transmit A band, press PTT-B to transmit B band.

2. AM Mode 108-136Mhz, AM mode receiving

3. Scan mode TO/CO/SE Mode

TO: Time scanning, the walkie-talkie pauses scanning when it detects a signal, and after staying stopped for about 5 seconds, the walkie-talkie will continue scanning even if the signal is still there.

CO: Carrier scanning, the two-way radio pauses scanning when a channel is detected and keeps it on the same frequency until the signal disappears. There is a 2 second delay between the disappearance of the signal and the resumption of scanning to allow time for the response to

begin transmission. SE: Search scanning, the walkie-talkie exits scanning when it detects a signal and stays at this frequency.

FM function 1) Turn on FM function, the screen will display current

FM frequency 2)Press [ • ]/[ • ] to change FM frequency, or input via keypad(88.1-108MHz); Press # key to scan FM frequency automatically in FM mode

3)Adjust volume via Power/volume knob 4)Press FM key again to exit FM mode Note: FM function need to be set in side key customized Frequency scan Scan other radios' CTCSS/DCS and frequency to make

After defining the side key function as a frequency scan function, turn it on through the side key. This function can scan the frequency of U/V/200M/350M, and switch the frequency band to be scanned by the [P1] key. After scanning the frequency, it will continue to scan CTCSS/DCS. If there is no CTCSS/DCS, the screen will display 'NONE' and end the scan. At this time, the scanned data can be saved to the designated channel through the [ ] key and the frequency scan function can

frequency scan.DTMF A. DTMF encode Quick transmitting Encode: In transmitting status, press digit keys, [ ] \*, # to transmit DTMF encode 0-9, ABCD\*#. Press key to continuously encode transmitting

and release to end encode transmitting. Transmitting encode after editing: In standby mode, press [#] key to enter DTMF edit menu, input 0-9,ABCD\*#, if less 6 digits then press [#] as ending. Done editing, press PTT to transmitting DTMF. In edit mode press [ ] to delete encode, then press [ ■ ] to exit DTMF edit mode.

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B. DTMF Decode

ANI Name Display

To indicator which radio is transmitting. 60 group names 50 groups name are radio 1 to radio 50. The rest of 10

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group names can be edited via programming software.

GPS function

Press [ ] or [ ] to enter the GPS positioning interface. At the same time, you can switch the coordinate display mode and the image mode. It also has the backtracking function. You can store the starting point position in advance, and you can view the direction and distance to the current position in real time to ensure that you won't get lost in the wild.

Wireless programming via Bluetooth

■ FCC Compliance Statements:
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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. **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 no occur in a particular installation. If this equipment does cause harmfu 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.

RULES AND FEDERAL LAW.

— 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

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Licensing Information

Use our radio in USA is subject to the rules & regulations of FCC. Changes br modifications not expressly approved by our may void the user authority granted by the FCC to operate this radio and should not be made. To comply with FCC requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal semiconductor, etc) not authorized by the FCC equipment authorization for his radio could violate FCC rules.

Note: Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited. mportant: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device. Your radio is set up to transmit a regulated signal on ar assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations. Any adjustments to your radio must be made by qualified technicians.