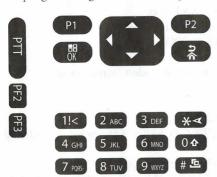




Functions

- 1. Frequency band: FM 65-108MHz(Receive)
- VHF 108-136MHz(AM receive)
- VHF 136-174MH(RX&TX) or
- UHF 220-260MHz((RX&TX) or
- UHF 350-390MHz(RX&TX) or
- UHF 400-520MHz(RX&TX)
- BLW 2.4GHz ISM
- 2. Working mode: Frequency mode/Channel mode
- 3. FM Radio
- 4. Dual standby
- 5. 50 CTCSS/105 DCS
- 6. RX CTCSS/DCS, TX CTCSS/DCS can be set individually
- 7. TOT
- 8. 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
- 12. VOX
- 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

- 25. GPS (optional)
- 26. Boot interface customization
- 27. PC Programming
- 28. Wireless programming via Bluetooth(optional)



Keypad description

1. Keypad function

P1

Short press: Switch A/B band

Long press: In channel mode, switch channel display mode

P2

Short press: Switch frequency mode and channel mode Long press: Turn on/off ANI name display function

-2-

Enter Menu, then select option in menu list

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

Short press: DTMF edit. Use * key to end if less then 6 digits

In FM mode, scan FM

Long press: Lock/unlock keypad

[SOS] Key

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

-3-

Power/Volume on-off

clockwise rotation: Power on/Volume+ Anticlockwise rotation: Power off/Volume-

Status Indicator

TX- Red light

RX- Green light

External Jack

Earpiece or programming cable

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

SOS mode

Side key 2: Set functions via programming software

Side key 3: Long press to active MONI mode. Set func-

tion for short press via programming software

2. Muti keys function

1750Hz Tone: PTT + MONI

DTMF: PTT+ numeric keys+ to transmit DTMF 0-9,

ABCD*#

Screen display and Menu list

Screen display



Icon definition

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

Screen display



Menu

Menu List

Menu List	No	Chinese	2nd menu characters	Description
0	SQL	静噪等级	0,, 9	The lower the level, the easier it is to be disturbed, the higher the level, the winds the sensitivity. Better set as medium.
		步进频率	2. 50K	In frequency mode, to change
			5. 00K	frequency step
	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		6. 25K	
			10.00K	and the same of th
1	STEP		12. 50K	rating (P)
1			20. 00K	
get policy.			25. 00K	
			50. 00K	
2	MEMCH	信道存储	000,, 256	Indicate the channel number to be stored while store channel. if 'CH' in front of number means this channel already has a channel parameter.
3	DELCH	信道删除	000,, 256	Delete the channelparameters of the specified channel. If there is no CH-means that the channel has no parameters and the operation is invalid.

	0	
-	n	-
	v	

			1012	1935
	The second of	11.9 -14		
		1 1 1 1	Digital Street	6.736
		7.65	OFF	N D00
		1 5 3	UFF	None DCS
				Standard CTCSS.
4	R-CTCSS	接收模拟亚音	67. OHZ,, 2	
		7 7 7 7	54. 1HZ	or nonstandard CTCSS via keypad
	e was	100	100	01033 VIa Keypad
	10 4 -	100	0FF	None DCS
5	R-DCS	接收数字亚音	D023N,, D7	Standard DCS
	19.1		541	Standard DCS
			OFF	None CTCSS
				Standard CTCSS.
6	T-CTCSS	发射模拟亚音	67. OHZ,, 2	Input standard
		~~~~~	54. 1HZ	or nonstandard
		11 11	04. 1112	CTCSS via keypad.
7	T-DCS	42 64 W. ch T. ch	OFF	None DCS
W 1888		发射数字亚音	D023N,, D7	Standard DCS
100		语音加密	541 0FF	
8	VOICEPRI	后自加名		
			Encryption 1 Encryption 2	
			Encryption 2	
			Encryption 4	
		信道名称		
9	CH-MAME	III AE II 10	Common name List	
10	TXP	发射功率	HIGH	High Power Transmittin
	170	交别切牵	LOW	Lower Power Transmitti
	SAVE	省电模式	0FF	Off Battery saving
11			1	Off Battery saving
		E CIXIO	2	Normal saving
		ell and animal	3	Super saving
12	20050	ATT ANY A STATE OF THE STATE OF	OFF	Turn off
12	ROGER	通话结束提示音	ON	Turn on
			30, 60,	The number is from 30 to 480s,
13	TOT	发射限时	480S	and the maximum time for PTT
			4603	transmission is indicated in 30s steps
			1	Turn off VOX
		±10.00 61	OFF	function,
14	vox			transmitting without PTT pressing
14	VUX	声控发射	2001	Activate the sound
Fig. 1			1, 2, 9	pressure intensity of voice control, level 1
37/80				is the most sensitive
15	W/N 信道带宽	WIDE	Wide mode	
		口旭市见	NARR	Narrow mode

	-	
=	1	

16	VOICE	语音提示开关	0FF	Turn off voice prompt
16			ON	Turn on voice prompt
	0555	ntt vir TT A4	OFF	Turn off operation prompt
17	BEEP	哔音开关	ON	Turn on operation prompt
			ENGL I SH	English
18	LANGUAGE	菜单语言	Chinese	Chinese
			0FF	OFF
19	BCL	繁忙锁定	ON	ON
			то	Time scanning, the walkle-talkle pauses scanning when it detects a signal, and after staying stopped for about 5 seconds, the walkle-talkle will continue scanning even if the signal is still there.
20	SC-REV	扫描模式	со	Carrier scanning, the two-way radio pauses scanning when a channel is detacted as the channel of scanning to allow 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		45
23	PF3	侧键 3 短按功能设置		need '
		カーナオヒッと。ATD+AD2/L	ON	Background light is always or
24	ABR	自动背光灯时间设置	5S, 10S 3Min.	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
	641	4.7	OFF	In frequency mode, turn off the difference betwee the transmitting and rece iving frequencies
26	SFT-D	频差方向	97 +	In frequency mode, the TX frequency=RX frequency plus frequency difference
	THE STATE OF THE S		_	In frequency mode, the TX frequency=RX frequency min frequency difference

27	SCAN CTCSS	扫描模拟亚音		
28	SCAN DCS	扫描数字亚音		
			ALL	ALL
29	CDCSS SAVE	扫描亚音频存储	RX	Receiving
	MODE		TX	Transmitting
-		T to = T 14 to	LOGO	Photo
30	POWER ON MSG	开机画面选择	VOL TAGE	Battery voltage
31	ANI NAME	本机名称选择	NUM1···NUM60	No. 1-No. 50 radio. The radio n of 51-60 can be set
32	S-CODE	DTMF 信息码	1, 2, 3 15	
			OFF	Turn off
		1 7 6 1 7 7	BOT	Press PTT to transmitting DT
33	DTMF CODE	上下线码	EOT	Release PTT to transmitting D
			вотн	вотн
			OFF	No DTMF prompt when press key to transmitting DTMF
			DT-ST	DTMF prompt when press key to transmitting DTMF
34	DTMFST	侧音开关	ANI-ST	DTMF prompt when automatical transmitting DTM
			DT+AN1	DTMF prompt when automatical transmitting DTMF and press to transmitting DTMF
	-0-4		OFF	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	istantial and	
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	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	VI II
		*	- 111	Due to the delay of the repeater, noise appears when receive instant sign
41	RP_STE	过中继尾音消除	OFF	
				4

			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.
	HaveT	70 70 70 107 107 107	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	7.580
43	ANI FUNCTION	身份码功能	0FF	Turn off
43	ANT TONOTTON	21 IV H2-97 HC	ON	Turn on
			FREQ	A band displays as, frequency in channel mode
			СН	A band displays as channe in channel mode
44	MDF-A	A 段显示模式	NAME	A band displays as channe name in channel mode
			FREQ	B band displays as freq- uency in channel mode
45	MDF-B B 段显示模式	B段显示模式	СН	B band displays as channe in channel mode
		NAME	band displays as channel name in channel mode	

	Same and	77 HF ch (2)	0FF	Turn off
46	TDR	双频守侯	ON	Turn on
47	TX-A/B	双守发射选择	0FF	In dual standby mode, transmitting current frequency band
-	A			in dual standby mode. press PIT to transmitting A band for cross-band TE/RE
e niken e	WHE COUNTY		А	In dual standby mode press PTT to tra- nsmitting B band for cross-band TX/RX
		Agenta est	В	After releasing the PTT, the radio will send a turn-off code to suppress the instant noise of the receiver.
		100	merce :	montatalia culti
a Sanda	1 100 1 100 1		OFF	After releasing the PIT, the radio will send a turn-off code to suppress the instant noise of the receiver.
48	STE	尾音消除	ON	After releasing the PTI, the radio will send a turn-off code to suppress the instant noise of the receiver.
			SITE	On-site Emergency
49	AL-MOD	报警模式	SOUND	Send emergency voice
			CODE	Send emergency code
	000		0FF	Turn off
50	GPS	GPS 定位	ON	Turn on
51	BULLETOOTU	蓝牙写频	OFF	Turn off
	BLUET00TH	监才与频	ON	Turn on
52	DISPLAY	接收时间显示	OFF	Turn off
	DISPLAT	<b>技术X</b> 中门口业业///	ON	Turn on
			VF0	Menu back to factory setting
53	RESET	恢复出厂设置	ALL	Menu and channel back to factory setting

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

-10-

-11-

### Menu operation

- 1) Press 📵, then enter menu via up/down key.
- 2) Press again to enter the menu function
- 3) Select option via up/down key.
- 4) Press to confirm and back to main menu
- 5) Press ② to exit menu and back to normal working mode.

Note: Step, TX power, W/N band, CTCSS/DCS, frequency different etc. only set valid in frequency mode.

# Other function description

1. Dual PTT

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 [ 1/1 1 to change FM frequency, or input via keypad(65-108MHz); 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 setting.

-13-

-12-

## Frequency scan

Scan other radios' CTCSS/DCS and frequency to make a contact.

#### 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.

B. DTMF Decode

# ANI Name Display

To indicator which radio is transmitting. 60 group names can be selected.

50 groups name are radio 1 to radio 50. The rest of 10 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