



### Manual channel storage and delete operation channel storage:

1. Enter the frequency to be used directly with the keyboard in frequency mode. For example, the frequency of 435.125MHZ can be directly input into 4, 3, 5, 1, 2 and 5. 2. Set the receiving sub-audio frequency to be used (menu items 10 and 11) and the transmitting sub-audio frequency to be used (menu items 12 and 13). For example, when receiving sub-audio at 67.0HZ and transmitting sub-audio at 67.0HZ, you can press [MENU] +[1] +[MENU] +[DOWN] to select 67.0HZ+[MENU] +[EXIT/AB] to exit from saving and receiving sub-audio. To transmit sub-audio, press [F] +[1] +[3] +[MENU] +[DOWN], select 67.0HZ+[MENU] +[EXIT/AB] to exit saving. (If you don't need sub-audio, you can all select OFF) 3. Select menu item 47 for channel storage, and press [MENU] +[4] +[7] +[MENU] +[UP] (DOWN) to select channel number +[MENU] to store channels in turn.

#### Channel deletion:

## Select menu item 37 to delete the channel. Press [MENU] +[4] +[8] +[MENU] +[UP] (DOWN) to select the channel number to be deleted +[MENU] to delete the channel.

Store radio channel You can store radio programs and corresponding program names through PC frequency writing software. (click on FM channel of frequency writing software to edit). The microphone handle of this machine can send DTMF codes in real time in the transmitting state. In FM mode, press the [\*] key on the microphone keyboard to search radio

#### channels in sequence. Switch keyboard lock

Monitoring function

Press the key [#] of the microphone keyboard for more than 2 seconds during standby time to turn on or off the keyboard lock function.

#### Send transit signaling Select the transfer signaling frequency to be sent (this

machine provides four transfer signaling frequencies). Press [MENU] +[4] +[2] +[MENU]+[up] (down) to select relay signaling frequency +F to save. Press the [PTT] key and then press the [CALL] key to send the preset relay

#### signaling. Setting of PTTID

software)

Boot function

Alarm function

PC writing software).

by the writing software. You can write by PC frequency writing software (click PTT-ID option box of optional select the signaling to be used +[MENU] to save. 2. select item 23, S-INFO signaling code 1,-",15 in the menu, and send out this group of information codes when necessary (the information codes can only be written by

writing frequency software) 3. Select item 22 in the menu to set PTT transmission delay. Press [MENU] +[2] +[2] +[MENU] +[UP] (DOWN) to select delay time +[MENU] to save. 4. Press PTT to send the set ID code.

# The PTT-ID sent by this machine is the ID code prestored parameter options of frequency writing software to edit.) 1. select item 20 in the menu to select the signaling to be used. Press [MENU] +[2] +[0] +[MENU] +[UP] (DOWN) to

received. This function can choose whether it is controlled

by the master ID, and not by the receiving signaling. (the

remote code can be preset by PC writing frequency

When the received DTMF signal is consistent with the

returning to normal from remote death and halo. This

When the received DTMF signal is consistent with the

optional parameter options of PC frequency writing

preset alarm code, the receiver will give an alarm, and the

alarm mode and alarm channel can be edited through the

and receiving signaling. (the alarm code can be preset by

software. This function is not controlled by master control ID

can be preset by PC writing software).

preset boot code, the receiver will cancel the function of

function can choose whether it is controlled by the master

ID, and not by the receiving signaling. (the power-on code

Signaling is controlled by master ID, which means that besides signaling code, master ID must be consistent to perform this function. Coding format not controlled by master control ID: signaling code+# (separator code)+information code Coding format controlled by master control ID: signaling code+# (separation code)+master control ID code+# (separation code)+information code

## CALL key to send DTMF settings

1. select DTMF signaling. Press [MENu] +[1] +[9] +[MENu] +[UP] (DOWN) to select DTMF signaling+[menu] to save. 2. Select signaling information code. Press [MENu] +[2] +[4] +[MENu] +[UP] (DoWN) to select decoded signaling information code group (1-15)+[menu] to save. (DTMF coding can be set by PC frequency writing software) 3. Press [CALL] in standby mode to send out the selected

# DTMF information code group.

CALL key sends 2 tones and 2 tones signaling settings 1. press the [MENU] key (menu function key) to select item 14 OPTSIG and then press the [MENu] key to select 2TONE to start 2TONE signaling.

# catalogue

DTMF signaling

matters need attention Unpacking and inspection device Panel description Same frequency and different frequency channel storage Co-channel storage Inter-frequency channel storage (connection relay station operation) Different frequencies plus CTCSS/DCS channel storage (connected to relay station operation) Operation menu function setting Menu function setting operation (which can be operated by keyboard) Manual channel storage and deletion operation Store radio channel Switch keyboard lock. send transit signaling Setting of PTT ID Optional signaling settings DTMF signaling settings

# Patrol function Monitoring work Telehalo function Remote death function Boot function Alarm function ... CALL key to send DTMF settings CALL key sends dual tone and dual tone signal to set 5TONE signaling setting Hand microphone description Function menu table the key technical indexes

# Optional signaling settings DTMF signaling settings

This machine has DTMF coding and decoding function. You can write the signaling information code through PC and

After the receiver sets DTMF signaling, when receiving DTMF signal and preset body When the codes are consistent, the receiver will be able to

# Patrol function

When the received DTMF signal is consistent with the preset patrol code, the receiver will send it from Identity code, which can be displayed on the main control screen. This function can choose whether it is controlled by the master ID, and not by the receiving signaling. (the patrol code may To be preset by PC writing frequency software).

matters need attention Please observe the following precautions to prevent fire, personal injury and damage to interphone.

1 Do not use this machine while driving, it is too dangerous to do so.

2 This walkie-talkie is designed to use 13.8V DC power supply, and do not use 24V power supply for power supply

Do not place the machine in a dusty, wet or splashed place, and do not place it on an unstable surface. 4 If the reception is interfered by the outside, keep the unit away from interfering equipment (such as TV set, generator, etc.).

5 Do not expose this unit to direct sunlight for a long time or place it near the heating device. 6 If the machine emits smoke or strange smell, the power should be cut off immediately. After confirming that the machine is safe, send it to the nearest maintenance service station for inspection.

7 Do not transmit with high power output for a long time, which may cause the intercom to overheat.

## Unpacking and inspection device Welcome to the radio. Before use, I suggest you:

① Please check the packing box of this product for signs of damage;

③ If you find that this product and its accessories are lost or damaged during handling, please contact the



2 Please carefully open the packing box and confirm whether there are items listed in the table below;



#### 2. Press the [MENU] key to select the 24th item S-INFO, and then press the [Menu] key to select the pre-programmed signaling group numbers 1-16. (use of 2TONE can be set by PC writing software) 3. When the received 2TONE signal is consistent with the preset 2TONE code, the corresponding function will be executed. 4. Press the [CALL] key in standby mode to send the selected 2TONE information code group.

5TONE signaling setup

This machine has 5-tone codec function. You can write the signaling information code through PC frequency writing software (click the signaling editing 5TONE option of the frequency writing software to set it). After the receiver sets 5TONE signaling, when the received 5TONE signal is consistent with the preset identity code (the identity code must be 5 digits), the receiver will be able to perform the

the [CALL] key sends 5TONE 1. press the [MENU] key (menu function key) to select the 20th OPTSIG and then press the [F] key to select 5TONE to start 5TONE signaling. 2. Press the [menu] key to select the 24th item S-INFO, and then press the [F] key to select the pre-programmed signaling group numbers 1-16. [5TONE information code can be set by PC writing frequency software. Each group can send 3 groups of 5TONE codes at a time, and you can choose not to fill them out as needed. 3. Press the [CALL] key in standby mode to send the selected 5TONE information code group.

## Hand microphone description



# frequency software (click the signaling editing DTMF option of frequency software to set it). DTMF signaling

execute the ringing caption and display the information code. In the effective time, you can talk back and forth (the identity code can be written by PC frequency software) To preset).

preset monitoring code, the receiver will start to transmit the sound that can monitor the surrounding environment in real time. This function can choose whether it is controlled by the master ID, and not by the receiving signaling. (the monitoring code can be preset by PC writing software). Telehalo function When the received DTMF signal is consistent with the

preset tele-halo code, the receiver will limit the transmitting function to work only in the receiving state, and the display will prompt. The normal function cannot be restored until the corresponding boot code is received. This function can choose whether it is controlled by the master ID, and not by the receiving signaling. (Telehalo code can be preset by PC

When the received DTMF signal is consistent with the

# writing frequency software).

Remote death function When the received DTMF signal is consistent with the

preset remote code, the receiver will restrict the use of all

functions, and the display will prompt. The normal function

cannot be restored until the corresponding boot code is









N	lenu	definitions		
	TMR	Multifrequency waiting	ON	Turn off multi-frequency waiting and start
	TMIX		OFF	multi-frequency waiting
	STEP	Frequency Step Size Setup	2.5 to 25kHz	2.5, 5, 6.25, 10, 15, 25 kHz
	SQL	Squelch Level	00 > 09	10 squelch levels, 00 = minimum / normally open
	TXP	Transmit Power	High	Full Power
	TAP	Transmit Fower	Low	Reduced Power
	SCR	Voice Scrambler	ON	Activate Scrambler Function
	SOK	Voice Scrambler	OFF	Deactivate Scrambler Function
	тот	Time Out Timer	15 > 600 secs	15 second steps
	101		OFF	Turn off Time out Timer
			OFF	Disable this function
	TOA	Time out timer pre-alert	1,2,10	Radio will alert by LED flashing before transmitting end
	WN	Bandwidth	Wideband	25.0 kHz
	VVIN	Danuwuun	Narrowband	12.5 kHz
	ABR	LCD Backlight Timer	1 > 50 secs	Backlight duration = 1 > 50
	ABI	LOD Dacklight Timer	OFF	Backlight remains ON

Same frequency and different frequency channel storage Co-channel storage		Different frequencies plus CTCSs/DCS channel storage (connected to operation)	o relay station 9 BEEP Keypad Voice Prompt	ON/OFF	Turn ON/OFF keypad voice prompt	16 SC-ADD Add Scan Channel 17 LANGUA Menu language	ON OFF ENG Chinese	Add channel to scan list Remove channel from scan list The menu is displayed in English The menu is displayed in Chinese
1. press the required frequency with the keyboard, such as 145.000, press the [MENu] key to display the menu to item, press the [MENU] key to display: 001 flashes (select the number of channels), press the [MENU] key to display CH-001 once, and press the [EXIT] key to save and complete the exit.	<ul> <li>4. section b display channel: in item 30 of the menu, press the [MENu] key to display the dishes</li> <li>Monotonic to 30 items, display</li></ul>	(Take receiving 465.525 sub-audio, 67.0 rounds and       keyboard, press [MENU] to adjus         (455.525 sub-audio DO23N as an example)       MEM-CH001, then press [MENU]         1. press [[MENU key to display the menu, adjust to 11 items       flashing, press [MENU] to confirm         to display R-CTCS/OFF, press [MENu] key to display OFF       the transmission and storage.         flashing, use knob to select and receive sub-audio data       flashing	to display CHO01	D023N > D754I OFF OFF D023N,,D75	Squelch opens when proper DCS code is detected No DCS code required No mute Standard sequence of digital mute No mute	18 DMR_TX Multi-guard emission 19 SC-REV Scan Resume Method	TRACK FIXED CO	Always track the received frequency point transmission with the main frequency transmission (Carrier Operation) Scan stops when signal detected. Scan resumes when signal disappe
<ul> <li>2.Press the required frequency with the keyboard: for example, 146.000, press the [MENU] key to display 47 items in the menu, press the [MENU] key to display 002 flashing (select the number of channels), press the [MENU] key once to display CH-002, and press the [EXIT] key to save and complete the exit.</li> <li>3. display channel in section a: in item 29 of the menu, press the "menu" key to display the display</li> </ul>	5.Exit the menu, press PTT, and use the [EXIT/AB] key to switch. Inter-frequency channel storage (connection relay station operation)	<ul> <li>(67.0), and press [menu] key to confirm.</li> <li>2. Use knob to select 12 menus T-DCS/OFF, then press</li> <li>[MENU] key to display OFF flashing, and use knob to select and transmit digital sub-audio data</li> <li>(DO23N), press the [MENU] key to confirm that [EXIT] is pressed.</li> </ul>	2 D-SUB Subtone display switch 3 CC-MDF C- channel display	OFF OFF ON FREQ CH NAME	Turn off sub-audio Turn on sub-audio In the channel mode of zone c, Channels are displayed in frequency In the channel mode of zone c, Channel numbers are displayed in frequency	20 OPTSIG Optional Signaling	SE OFF DTMF 2TONE 5TONE	(Search Operation) Scan stops when signal detected. Scanning will not resume. No optional signaling DTMF signaling selected 2TONE signaling selected 5TONE signaling selected
Monotonic to item 29, showing CA-MOF FREQ Press the [MENU] keyThe FREQ flashes and is selected with the knob. CH shows the channel, FREQ shows the frequency+channel number, and press the [MENu] key to confirm.	<ol> <li>press the required receiving frequency, such as 164.500, press the [MENU] key to display menu to 47 items, and display MEM-CH/001, then press the [MENU] key 001 to flash, then press the [MENU] key to display CH-001 once, and after receiving and storing, press the [EXIT] key.</li> <li>Press the required transmission frequency such as 158.800 with the keyboard, press the [MENU] key to adjust the display menu to 47 items, display MEMCH-001, press the [MENU] key, CH-001 flashes, press the [MENU] key again, and the different frequency storage is completed,</li> </ol>	<ul> <li>3. Adjust the receiving frequency (press the required receiving frequency of 465.525 with the keyboard), press the [MENU] key to adjust to 47 menus, display</li> <li>MEM-CH/001, then press the [MENu] key 001 to flash, press the [MENu] key to confirm, display CH001, receive and store, and press [EXIT] to exit.</li> <li>4. Press the required radio frequency point with the</li> </ul>	4 DTMFST DTMF Side Tone 5 BCL Busy Channel Lockout 17	OFF KEY ANI BOTH ON OFF	No tones are heard through the speaker when transmitted Only manually keyed DTMF codes are heard Only automatically keyed DTMF codes are heard All DTMF codes are heard Prevents transmit if active signal on the channel No lockout			

		QT	Squelch opens for CTCSS/ DCS tones only.	30 CB-MDF B	Channel Display Mode	FREQ CH	In Channel Mode, display the selected format in
	21 SPMUTE Speaker Mute Settings	AND	Squelch opens when CTCSS/DCS tone is recognized along with the optional signaling.			NAME	display B Voice control starts transmitting from voice
		OR	Squelch opens when either the CTCSS/DCS tone OR the optional signaling is recognized.	31 VOX-T V	oice control delay	0, 1, 2, 3, … 20	The signal disappears to stop transmitting
[MENU]+[1 Key]+[1 Key]: R-CTCS receive analog		OFF	Do not send				Delay time
soundsFrequency setting. OFF means off,	22 PTT-ID PTT ID - When to send	BOT	Send at Beginning of Transmission	32 ST-FC S	tatus bar character color	colour	Color setting of upper status character display
Z-254.1HZ simulates the standard sequence of mute,	1	EOT	Send at the End of Transmission				
t the same time, you can directly type the standard or		BOTH	Send at both Beginning and End				
standard analog mute through the keyboard. After	23 PTT-LT PTT ID - Transmit Delay	0 > 30	Set Delay Time	33 MF-FC C	olor of dominant character	colour	Color setting of main frequency character display
tment, press the [MENU] key to store the parameters.	1 24						
IENU]+[1 Key]+[2 Key]: T-DCS transmits digital				34 SFA-FC A	- character color	colour	Color setting of characters in channel a display are
udio	25 EMC-TP Alarm Mode	ANI	Send Alarm code and ID code			oorour	
. OFF means off, DO23N-D754N is a forward	1	BOTH	Both of the above				
dard digital sub-audio sequence, and DO23I-D754I is a	26 EMC-CH Alarm Channel	000 > 199	Specified Alarm Channel The larger the value, the louder the sound. OFF	35 SFB-FC B	- character color	colour	Color setting of characters in b channel display are
se standard digital sub-audio sequence. After	27 VOX Acoustic emission	OFF, 1, 2, 3, … 10	voice control transmission is off, 1,2,3,				
ment, press the [MENU] key to store the parameters.		, , , ,	10 is the sensitivity level of voice control starting.	36 MEMCH N	lemory Channel	000 > 199	Indicates channel number to be stored. "CH" will
IENU]+[1 Key]+[3 Key]: T-CTCS transmit analog	28 CHNAME Channel Name	Channel Name Edit	In Channel Mode, edit the Current Name				appear after channel is stored.
bunds		FREQ					
ency setting. OFF means off, 67.0HZ-254.1HZ	₁ 29 CA-MDF A Channel Display Mode	СН	In Channel Mode, display the selected format in				
ates the standard sequence of mute, and at the same		NAME	display A				
you can directly type the standard or non-standard		INAME					
og mute through the keyboard. After adjustment, press							

quency standby setting. ON is on, which can realize the simultaneous standby waiting of the upper and lower group frequencies on the screen. OFF is off, only waiting for the frequency indicated by the arrow on the screen. After adjustment, press the [MENU] key to store the parameters. 1.[ MENU]+[1 Key]: STEP sets the step value of frequency in frequency mode. It can be set as: 2.5khz, 5khz, 6.25khz, 10khz, 12.5khz and 25khz. After adjustment, press the [MENU] key to store the parameters. 2. [MENU]+[2 key]: setting the squelch level of SQL receiver, which is divided into 10 levels to set the squelch

Menu function setting operation (which can be operated by keyboard)

volume

Menu function setting operation

depth according to the use environment. 0 is mute on; 1-9 is mute depth increasing; after adjustment, press [F Key] to store parameters.

3. [MENU]+[3 Key]: TXP transmit power setting. HIGH is high power output and LOW is low power output. After adjustment, press the [MENU] key to store the parameters.

setting. ONTo turn it on, call voice encryption can be realized. OFF is off. After adjustment, press the [MENU] key to store the parameters. (This function is optional) 5.[MENU]+[5 Key]: TOT emission time limit setting. Set the transmission time of each intercom. The value ranges from 15 to 600 seconds, with steps of 15. After adjustment, press the [MENU] key to store the parameters. 6.VOL: Volume 0, 1,2,3,,, 63 Adjust the output volume of the car platform. The higher the number, the higher the 7.[MENU]+[7 Key]: WN width and narrow band setting.

WIDE is wide band and NARR is narrow band. After adjustment, press the "MENU]" key to store the parameters.

9.[ MENU ]+[9 Key]: BEEP tone switch. OFF is off and ON is on. After adjustment, press the [MENU] key to store the parameters 10. [MENU]+[1 Key]+[0 Key]: R-DCS receives digital sub-audioSetup. OFF means off, DO23N-D754N is a forward standard digital sub-audio sequence, and DO23I-D754I is a reverse standard digital sub-audio

ABR screen. OFF sets the screen to be always on, and the

value of 1-50 seconds can adjust the backlight time of the

screen. After adjustment, press the [MENu] key to store the

sequence. After adjustment, press the [MENu] key to store the parameters.

press the [MENU] key to store the parameters.

the parameters.

sub-s Fre sim

the [MENU] key to store the parameters. 14.D-SUB: sub-audio display switch OFF turns off sub-audio display. at this time, ONly sub-audio symbols are displayed, but the specific values of sub-audio are not displayed. on turns on sub-audio display to display the sub-audio values currently sent and received. 15. [MENU]+[1 key]+[4 key]: DTMF ST DTMF side tone is onClose the setting. OFF is off, when sending DTMF code, this machine does not send out the sound of this code, and KEY only sends out the sound of this code when pressing the key to send DTMF code. ANI only sends out the sound of the code when it sends the code automatically. BOTH key code sending and automatic code sending are sent locally 16. [MENU ]+[1 Key]+[6 Key]: SC-ADD scan and add settings

Set. When the storage channel is turned OFF, the stored channel is not added to the scan list. When storing

channels ON, the stored channels should be added to the scan list. After adjustment, press the [MENU] key to store the parameters. 17.[MENU]+[1 Key]+[7 Key]: PRI-SC priority scanning setting. OFF turns off priority scanning, and ON turns on priority scanning. After adjustment, press the [MENU] key to store the parameters. 18.[MENU ]+[1 Key]+[9 Key]: SC-REV scanning recovery mode Setup. TO scan in time mode. After receiving the carrier

signal, it will stay for a period of time and continue scanning. CO scans in carrier mode, and stops scanning when receiving carrier signal. SE scans in search mode and receives carrier signal 19.[ MENU]+[2 Key]+[0 Key]: OPTSIG signaling mode

setting. OFF means no signaling, DTMF means dual audio signaling, 2TONE means two-tone signaling, and 5TONE means five-tone signaling. After adjustment, press the [MENU] key to store the parameters. Stop scanning when

21. [MENU]+[2 key]+[1 key]: PTT-id PTT-id transmission the signal and signaling match with this machine at the same time. After adjustment, press the [MENU] key to store setting. OFF means no ID code is sent during transmission, BOT means ID code is sent at the beginning of transmis-20.[MENU]+[2 Key]+[1 Key]: SPMUTE speaker turn-on sion, EOT means ID code is sent at the end of transmismode setting. QT turns on the speaker for matching the sion, and BOTH means ID code is sent at the beginning received sub-audio with the sub-audio set by this machine. and end of transmission (ID code is the signaling If no sub-audio is set, the speaker will be turned on after information code in dial-up memory preset by PC software, receiving the carrier. AND turns on the hORn when the which can be selected through item 24 of menu). After received sub-audio and optional signaling match with the adjustment, press the [MENu] key to store the parameters. sub-audio and optional signaling set by the local machine, 22. [menu]+[2 key]+[2 key]: PTT-It PTT-id transmission or turns on the horn when the received sub-audio and delay setting. 0-30 delay time before sending ID code (in optional signaling match with the sub-audio and optional seconds). After adjustment, press the [MENU] key to store signaling set by the local machine, or turns on the horn after the parameters. receiving the carrier if no sub-audio is set. After adjustment, 23.[MENU]+[2 Key]+[4 Key]: S-INFO signaling information and automatic Dial up memory. 1-15 groups of signaling encoding and decoding memories. You can only write with PC software. After adjustment, press the [MENU] key to store the

parameters.

37	DELCH	Delete Channel	e Channel 000 > 199 Indicates channel number to be deleted. "CH" will		45	STE	Squelch Tail Elimination, Requires both radios have	OFF	Function OFF	
				disappear after channel is deleted.		45	SIE	function ON.	ON	Eliminates squelch tail at end of transmission.
			OFF	No Offset (simplex)				Repeater Squelch Tail	OFF	Function OFF
38	SFT-D	Frequency Shift Direction	+	Plus frequency shift		46	RP-STE	Elimination, Requires a repeater using this function.	1 > 10	Delay Time
		E 01.77.077.1	-	Minus frequency shift					OFF	Function OFF
39	OFFSET	Frequency Shift Offset Amount	00.00 > 69.99	Frequency shift in MHz		47	RPT-DL	Repeater squelch tail delay	1 > 10	Delay Time
40	ANI	ANI ID Code	Can only be set with software			40	DEOET		VFO	Menu Initialization
44	ANI-L		2			48	RESET	Initialize to Factory Defaults	ALL	Menu and Channel Initialization
41	ANI-L	ANI Length	3, 4, 5	Length of ANI ID code		49	FM-FC	BATT color	colour	Battery/radio frequency display Character color
42	REP-S	Repeater Activation Tone	1000Hz, 1450Hz, 1750Hz, 2100Hz	Audible tone for repeater activation			010 50			
						50	SIG-FC	Signal bar character color	colour	Display color of bottom status bar
43	SFC-FC	C- character color	color	C channel display area character color setting		51	MENUFC	Menu character color	colour	Display color of menu characters when setting menu
						52	TX-FC	Emission-character color	colour	Color displayed when currently active channel is
44	SUB-FC	Color of dumb characters	color	Sub-audio display character color						transmitted
						53	RX-FC	Receive-Character Color	colour	Carrier received by current active channel
										Display color when
						53	MEM-CH	Channel storage	000, •••, 199	It means that the channel parameter originally exists in
						00		Chamierstorage	000, , 177	this channel. If the word CH- is displayed in front of the
										number, it is used to indicate that it should be stored when
										storing the channel
										The channel number of,
					1					

24.[MENU ]+[2 Key]+[5 Key]: EMC-TP alarm mode setting	28. [menu]+[2 key]+[8 key]: ca-mdfa channel display	28. [menu]+[2 key]+[8 key]: ca-mdfa channel display	31.LANGUA: menu language ENG menu is displayed in
	settingsSet. In CHannel mode, FREQ is displayed as	settingsSet. In CHannel mode, FREQ is displayed as	
Set. ALARM is the alarm tone sent by this machine, ANI is			EnglishThe menu is displayed in Chinese.
the alarm code and local identity code sent when alarming,	frequency, ch is displayed as channel number, and NAME	frequency, ch is displayed as channel number, and NAME	
and BOTH alarm tones and local identity codes are sent by	is displayed as channel name (specific name is set in	is displayed as channel name (specific name is set in	32.DMR_TX: multi-guard transmission TRACK tracking
this machine when alarming. After adjustment, press the	writing frequency software). After adjustment, press the	writing frequency software). After adjustment, press the	received The frequency point of transmission. The FIXED
[MENu] key to store the parameters.	[MENU] key to store the parameters.	[MENU] key to store the parameters.	main frequency is always transmitted at the main frequency.
25.[ MENU ]+[2 Key]+[6 Key]: EMC-CH alarm channel			
setting Set. 000-199 CHannel, the designated alarm	29. [menu]+[2 key]+[9 key]: CB-MDF b channel display	29. [menu]+[2 key]+[9 key]: CB-MDF b channel display	33.VOX: voice control transmission is OFF, 1, 2, 3, 10
channel when alarming, and ch is displayed as an effective	settingsSet. In CHannel mode, FREQ is displayed as	settingsSet. In CHannel mode, FREQ is displayed as	OFF voice control transmission is off, 1,2,3, 10 is voice
channel in front of this channel. After adjustment, press the	frequency, ch is displayed as channel number, and NAME	frequency, ch is displayed as channel number, and NAME	controlStart the sensitivity level. The larger the value, the
[MENU] key to store the parameters.	is displayed as channel name (specific name is set in	is displayed as channel name (specific name is set in	more generous the sound
26.[MENu]+[2Key]+[6key] sIG-BP: signaling includes	writing frequency software). After adjustment, press the	writing frequency software). After adjustment, press the	Can start.
Effective tips. OFF turns off the optional signaling without	[MENU] key to store the parameters.	[MENU] key to store the parameters.	
reminding when it is valid.	30.CC-MDF:C- channel shows that area c is in channel	30.CC-MDF:C- channel shows that area c is in channel	34.VOX-T: Voice control delay 0,1,2,3, 20 OFF
27.[ MENU]+[2 Key]+[ 7Key]: CHNAME channel name	mode, Channels are displayed in frequency. Area C is in	mode,Channels are displayed in frequency. Area C is in	Launch off, 1, 2, 3, 10 is voice-activated and sensitive
Series. In channel mode, edit the channel name of the	channel mode	channel mode	Degree level, the greater the value, the more generous the
current channel. After adjustment, press the [MENU] key to	, the channel is displayed by channel number. C zone is in	, the channel is displayed by channel number. C zone is in	sound can be started.
store the parameters.	the letter	the letter	
	In channel mode, channels are displayed by channel name	In channel mode, channels are displayed by channel name	

Channel deletion	000,, 199	If there is no CH-, it means the channel No parameters, invalid operation, delete the channel
Transit signaling	1000	parameters of the specified channel, When launching, it will be launched when the CALL key is pressed Out of the single frequency tone
Main frequency return delay	OFF.1, 2, 3, …50	frequency, used for excitation Live relay station Main frequency return delay time during multi- frequency waiting
Relay tail delay	OFF,1,2,3,50	Detect the tail sound of the relay to confirm this time Turn effective
Dual tone multifrequency gain	OFF.1, 2, 3, …60	Set DTMF gain, the larger the value, the other party The stronger the DTMF signal received from this machine,
Signaling valid prompt	OFF ON	Don't remind when optional signaling is valid Remind when optional signaling is valid
	Transit signaling Main frequency return delay Relay tail delay Dual tone multifrequency gain	Transit signaling1000Main frequency return delay0FF, 1, 2, 3,50Relay tail delay0FF, 1, 2, 3,50Dual tone multifrequency gain0FF, 1, 2, 3,60Signaling valid prompt0FF

# The key technical indexes Overall specifications

frequency range	VHF: 144-148 MHz UHF: 430-440 MHz
Number of channels	200 channels
channel spacing	25KHz 20KHz 12.5KHz
Phase-locked stepping	5KHz、6.25KHz、10KHz、12.5KHz、15KHz、25KHz、
operating voltage	13.8V DC ± 15%
Mute mode	CTCSS / DCS / 5Tone / 2Tone / DTMF
frequency stabilization	± 2.5ppm
Operating temperature of degree	−20~+60°C
measure	98(W)×35(H)×118(D)mm
weight	408g

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35.AUTOLK: keyboard auto lock OFF turns off keyboard auto lock.ON turns on the keyboard automatic locking function. 36.ST-FC: Status character display above the character color of status bar Color settings. 37.MF-FC: Color of dominant characters Display color of dominant characters Setup. 38.SFA-FC:A- character color a channel display area character color Color settings. 39.SFB-FC:B- character color b channel display area character Color settings. 40.Sfc-fc: c-character color c channel display area character color Color settings. 41.SUB-FC: mute character color sub-audio display character color 42.FM-FC:BATT color battery/radio frequency display character Color. 43.SIG-FC: the display color of the status bar at the bottom

of the signal bar character color.

44.MENUFC: menu character color menu character when frequency mode, transmission frequency setting menu Display color. Is equal to the receiving frequency MINUS the frequency 45.TX-FC: transmission-character color is displayed when difference frequency. the currently active channel is transmitted Show color. 50.OFFSET: frequency difference frequency setting. 46.RX-FC: receive-the currently active channel of character 000.000 in frequency mode color is received Display color when carrier wave is used. Type, the difference between the transmitting and receiving 47.MEM-CH: channel storage 000,...,199 storage letter frequency (whether to poor frequency Channel, used to indicate the channel number to be stored, Poor direction control) if Show CH- in front of the number, indicating that 51.ANI: ID code setting XXXXX is used to observe the Channel parameters are originally stored in the channel. setting of this machine Identity code (this identity code can 48.DEL-CH: channel deletion 000,...,199 deletion only be written by writing software) designation Channel parameters of the channel, if there is 52.ANI-L ID code length 3,4,5 Effective length of local ID no CH- table before This channel has no parameters, and the operation is invalid 53.REP-S: transit signaling settings. 1000, 1450, 1750, 49.SFT-D: frequency difference direction setting. OFF off, at 2100, when transmitting, the single frequency emitted when frequency In mode, there is no frequency difference the CALL key is pressed between transmitting frequency and receiving frequency. Tone frequency, used to activate relay station. +plus In frequency mode, the transmitting frequency is equal to the receiving frequency plus Frequency difference frequency. -frequency reduction in

54.TMR-MR:OFF, OFF 1, 2, 3, ...50 Main frequency return delay time during multi-frequency waiting 55.STE: Direct Frequency Tail Elimination OFF Close Close Call Tail EliminatiON function on turn on turn on the call ending elimination function 56.RP-STE: relay ending elimination, OFF, 1, 2, 3, ... 10 eliminates the tail sound generated when relaying 57.RPT-DL: relay tail delay, OFF, 1, 2, 3, ... 10 detect the tail sound of the relay to confirm that the relay is effective. 58.DTMF-G: DTMF gain 0, 1,2,3, ... 60 Set DTMF gain, the larger the value, the other party receives this machine The stronger the DTMF signal sent out, 59.Reset: the vfo menu is initialized, and ALL restores the factory settings Menu and channel initialization

## Receiving part (ETSI EN 300 086 standard test)

54					
		Bandwidth	narrow band		
55	Sensitivity (12dB SINAD)	≪0.25μV	≪0.35μV		
	Adjacent channel selectivity	≥70dB	≥60dB		
56	intermodulation	≥65dB	≥60dB		
	False signal response	≥70dB	≥70dB		
57	audio response	+1~-3dB (0.3~3KHz)	+1~-3dB (0.3~2.55KHz)		
	SNR	≥45dB	≥40dB		
58	Audio distortion	≤59	%		
	Audio output power	≥2\	W ± 10%		

## Transmitting part (ETSI EN 300 086 standard test)

	Bandwidth	narrow band
output rating	25W/20W(VHF/UHF)	
modulation system	16KΦF3E	11KΦF3E
Adjacent channel power	≥70dB	≥60B
SNR	≥40dB	≥36dB
Parasitic and harmonic	≥60dB	≥60dB
audio response	+1~-3dB (0.3~3KHz)	+1~-3dB (0.3~2.55KHz)
Audio distortion	≤59	%

Note: All specifications are subject to change without prior notice or liability.