

Hand microphone display platform

USER'S MANUAL

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[illegible]

Channel deletion:
Select menu item 27 to delete the channel. Press [MENU] + [H] + [1] + [MENU] + [L] + [7] (DOWN) to select the channel number to be deleted. *ENTER* to delete the channel.

Store radio channel
You can store radio programs and corresponding program names through PQ frequency writing software. (cd) on FM channel of frequency writing software to edit.

The microphone hand of this machine can send DTMF codes in real time in the transmitting state. In FM mode, press the [KEY] on the microphone keypad to search radio channels in sequence.

Switch keyboard lock
Press the key [J] of the microphone keypad for more than 2 seconds during idle time to turn on or off the keyboard lock function.

Send Test Frequency

Select the transfer signaling method to be sent (this machine provides four transfer signaling frequencies).

Press [MENU] + [4] [F2] [MENU] and [F1] to select transfer signaling frequency #4 to use. Press the [PRT] key to send and then press the [CALL] key to send the present relay signaling.

Setting of PTID

This PTID is sent by this machine as a ID code preselected by the wiring factory. You can write to PTID code by the wiring factory (also PT-ID option kit is optional).

Parameter options of frequency wiring signaling to set:

1. select item 20 in the menu to set PTID ID code.
2. Press [MENU] + [2] [F1] [MENU] + [MENU] + [DOWN] to select the signaling to be set as $\text{MENU} \rightarrow \text{ID}$ item.
3. select item 23, is INFO signaling code 1 ~ 15 in the menu, and send out this group of information code when necessary the information codes can only be written by

wiring frequency software)

3. Select item 23 in the menu to set PT transmission delay. Press [MENU] + [2] [F1] [MENU] + [F2] [DOWN] to select delay time [MENU] ID code.
4. Press [PRT] to send the set ID code.

Optional signaling settings DTMF signaling settings

DTMF signaling is a signaling and decoding function. You can use the signaling information codes to set the PC and frequency channels, such as the signaling setting DTMF option (DTMF signaling) to set ID.

DTMF signaling

After the receiver sets DTMF signaling, when receiving incoming signals, the receiver will send the outgoing signals. When the codes are consistent, the receiver will be able to receive the ringing signal and display the information on the screen. When the codes are inconsistent, the receiver will identify codes that cannot be written by PC frequency software. To prevent:

- When the received DTMF signaling is consistent with the preset code type, the receiver will send a ring tone signal, 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, (also preset by PC writing frequency software).
- To be preset by PC writing frequency software).

Monitoring function

When the received DTMF signaling is consistent with the preset monitoring codes, the receiver will send a warning 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 codes can be preset by PC writing software).

Telephone function

When the received DTMF signaling is consistent with the preset list-based codes, the receiver will start the transferring function to not only in the receiving state, and the display information on the screen. When the normal function is completed, the corresponding code will be received. This function can choose whether it is controlled by the master ID, and not by the receiving signaling. (Callcode codes can be preset by PC writing frequency software).

Remote death function

When the received DTMF signaling is consistent with the preset remote code, the receiver will restrict the use of all functions, and the display will prompt the normal function can be restored until the corresponding code is received.

Monitoring function

When the received DTAF signal is consistent with the 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 signal. (the monitoring code can be preset by PC writing software).

Teléfono function

When the received DTAF signal is consistent with the preset tele-talk 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 inputted. This function can choose whether it is controlled by the master ID, and not by the receiving signal. (Teléfono code can be preset by PC writing frequency software).

Remote delete function

When the received DTAF 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

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received. This function can choose whether it is controlled by the master ID, or by the receiving signal. The former code can be passed by PC writing frequency software.
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//
// When the received DTMF signal is consistent with the preset boot code, the receiver will cancel the function of the master ID, and the receiving signal will be the master ID, and choose whether it is controlled by the master ID, or not by the receiving signal. (the power-on code is not controlled by the master ID software)

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Alarm function

When the received DTMF signal is consistent with the preset alarm code, the receiver will set an alarm, and the alarm mode in alarm channel can be added through the optional parameter codes of PC frequency writing software. This function is not controlled by master control ID and receiving signal. The alarm code can be passed by PC writing software.

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//
// Send signal controlling by master ID, which means that the receiving signal codes, master ID must be consistent to perform this function.
// Coding format not controlled by master control ID: signaling order: (reparation code) master control ID: (code) signaling order: (reparation code) master control ID: (code)
// signaling order: (code) information code

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CALL key to send DTMF settings

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// select DTMF signaling, Press [MNF] + [1] -> [MNF] + [2] -> [MNF] + [3] -> [MNF] + [4] -> [MNF] + [5] -> [MNF] + [6] -> [MNF] + [7] -> [MNF] + [8] -> [MNF] + [9] -> [MNF] + [0] -> [MNF] + [*] -> [MNF] + [#]
// select DTMF signaling, Press [MNF] + [1] -> [MNF] + [2] -> [MNF] + [3] -> [MNF] + [4] -> [MNF] + [5] -> [MNF] + [6] -> [MNF] + [7] -> [MNF] + [8] -> [MNF] + [9] -> [MNF] + [0] -> [MNF] + [*] -> [MNF] + [#]
// select DTMF signaling, Press [MNF] + [1] -> [MNF] + [2] -> [MNF] + [3] -> [MNF] + [4] -> [MNF] + [5] -> [MNF] + [6] -> [MNF] + [7] -> [MNF] + [8] -> [MNF] + [9] -> [MNF] + [0] -> [MNF] + [*] -> [MNF] + [#]

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1. Press [MNF] + [1] to send DTMF signaling
2. Press [MNF] + [2] to send DTMF signaling
3. Press [MNF] + [3] to send DTMF signaling
4. Press [MNF] + [4] to send DTMF signaling
5. Press [MNF] + [5] to send DTMF signaling
6. Press [MNF] + [6] to send DTMF signaling
7. Press [MNF] + [7] to send DTMF signaling
8. Press [MNF] + [8] to send DTMF signaling
9. Press [MNF] + [9] to send DTMF signaling
10. Press [MNF] + [0] to send DTMF signaling
11. Press [MNF] + [*] to send DTMF signaling
12. Press [MNF] + [#] to send DTMF signaling

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.
- 3 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

Before use, the radio, Before use, I suggest you:

- 1 Please check the packing box of this product for signs of damage.
- 2 Please carefully open the packing box and confirm whether there are items listed in the table below;
- 3 If you find that this product and its accessories are lost or damaged during handling, please contact the dealer immediately.

What's in the Box

Mobile Radio	Microphone	Mounting Bracket	Power Cable

Mounting Screws and Fuse

2. Press the [MENU] key to select the 24th Item in INFO, and then press the [Menu] key to select the pre-programmed Signaling group numbers 1-6. (Use of ZTONE [on] is set by PC writing software) When the received ZTONE signal is consistent with the preset ZTONE code, the corresponding function will be executed. 4. Press the [CALL] key in standby mode to send the ZTONE signal. ZTONE signaling setup This machine has 5-tone code frequency. You can write the signaling information code through PC writing software. After setting the signaling setting ZTONE pattern of the frequency writing software to set (t). After the received accts ZTONE signaling, when the received ZTONE signal is consistent with the preset identity code (the identity code may be digital), the receiver will be able to perform the ringing action and display the identity number. You can talk back and forth within the effective time the identity code can be preset by PC frequency writing software), and	the [CALL] key sends ZTONE 1. press the [MENU] key (menu function key) to select the 20th OFF/PA and then press the [F] key to select ZTONE to start ZTONE signaling. 2. Press the [Menu] key to select the 24th Item in INFO, and then press the [F] key to select the pre-programmed signaling group numbers 1-6. (ZTONE information code can be set by PC writing frequency software. Each group can send 3 groups of ZTONE codes, and you can choose not to send them all or be needed) 3. Press the [CALL] key in standby mode to send the selected ZTONE information code group
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Diagram illustrating the components and functions of a handheld radio:

- Power
- Voice control
- Sending and receiving instructions
- Outdoor signaling Mode
- Add and subtract frequency
- Wide and narrow band
- Scrambling frequency
- Electricity
- Microphone
- Sound pressure
- Subtone reduction
- It indicates the TDR's voltage
- Mute! display
- Channel strength indication

■ Overview of the Front Panel

The diagram illustrates the front panel of the IC port, showing the following pins and their functions:

- 6VDD**: Positive power supply pin.
- 8V_B**: Negative power supply pin.
- 7 DATA_B**: Data bus pin (B).
- 8VDD**: Positive power supply pin.
- DATA_A**: Data bus pin (A).
- SP**: Serial Port pin.
- 3SP**: Serial Port pin (Herm output).
- 2MIC_GND**: Microphone ground pin.
- 1: PTT**: Push-to-Talk pin.
- External horn**: External horn connection point.
- Write frequency data port**: Port for writing frequency data.

Note: the IC port is above the power supply

The diagram shows the IC port connector with the following pin layout:

- 1: PTT**
- 2:MIC_GND**
- 3:SP** (Herm output)
- 4:MIC**
- 5:DATA_A**
- 6:VDD (-8V)**
- 7:DATA_B**
- 8:GND**

Hand microphone description (optional2)

- ① Short press MODEI and long press power on
- ② Short press CALL and long press ALARM
- ③ "MODEI" function key
- ④ "CALL" frequency step upward
- ⑤ "DOWN": frequency step down
- ⑥ "EXIT/MEMO" and AB channel switching, alarm function
- ⑦ "SCAN" frequency reversal function, scan number *
- ⑧ "RELOC" keyboard lock function, numeric "0"

The diagram shows a handheld microphone with several controls labeled with circled numbers:

- ①: Power button at the top.
- ②: Alarm button below the power button.
- ③: Mode button on the left side.
- ④: Call button on the left side.
- ⑤: Down arrow button on the left side.
- ⑥: Exit/Memo and AB channel switching button on the left side.
- ⑦: Scan button on the right side.
- ⑧: Numeric keypad on the right side.

A PTT (Push-to-Talk) button is located on the left side of the microphone body. The microphone has a speaker grille at the bottom and a handle at the bottom.

When monitoring is turned on, the up and down keys can adjust the volume, and press for a long time to quickly adjust the volume.

■ Menu definitions

0	TR	Multifrequency waiting	ON	Turn off multi-frequency waiting and start multi-frequency waiting
1	STF	Frequency Step Size Setting	OFF	2.5 K, 5 K, 10 K, 15 K, 20 KHz
2	SQL	Squelch Level	00 ~ 09	10 squelch levels, 00 = minimum / normally open
3	TRF	Transmit Power	High	Full Power
			Low	Reduced Power
4	SCR	Voice Scanner	ON	Activate Scanner Function
			OFF	Deactivate Scanner Function
5	TOT	Time Out Timer	15 ~ 600 secs	15 second steps
			OFF	Turn off Time Out Timer
			OFF	Disable this function
6	TDN	Time out timer pre-alert	1.2...10	Radio will alert by LED flashing before hearing and 20 KHz
7	WNA	Bandwidth	Wideband	12.5 kHz
			Narrowband	12.5 kHz
8	ABR	LOD Backlight Timer	1 ~ 50 secs	Backlight duration = 1 ~ 50
			OFF	Backlight remains ON

■ Same channel and different frequency channel storage

Casualty storage

Press the required frequency with the keyboard, such as 14.500, press the [MENU] key to display the menu to item, press the [MENU] key to display 001. Rotate (select) the number of channels, press the [MENU] key to display CH-001, press the [EXIT] key to return and complete the set.

Press the required frequency with the keyboard, for example, 146.000, press the [MENU] key to display 002. Rotate (select) the number of channels, press the [MENU] key to display CH-002, press the [EXIT] key to return and complete the set.

Display channel in section A in item 29 of the menu, for example, 146.000, press the [FREQ] key to display Memorize to item 29, showing [CH-001].

Press the [MENU] key. The FREQ is turned on is selected and shown. CH-01 shows the channel. Press the [MENU] key to change the channel number, press the [MENU] key to the next screen.

1. section B display channel in item 20 of the menu, press the [MENU] key to display the shafts
Memorize to 30 items, display [CH-002]

Press the [MENU] key to display [CH-002]

2. Press the [MENU] key to display the shafts
Use the knob to select CH-002, the FREQ shows the frequency/channel number, press the [MENU] key to return and complete the set.

5. Exit the menu, press 77 and use the [EXIT/RTX] key to switch.

Inter-frequency channel storage (connection relay station operation)

1. press the required receiving frequency, such as 154.500, press the [MENU] key to display the menu to item 28, rotate the display MEMO CH-001, then press the [MENU] key to display CH-001, then press the [EXIT] key to return and after receiving and storing, press the [EXIT] key.

2. Press the required transmission frequency, such as 538.500 with the keyboard, press the [MENU] key to adjust the display menu to 17, display MEMO CH-001, press the [MENU] key, CH-001 shows the channel number, press again, and the different frequency channel is completed, and press the [EXIT] key.

Different frequencies plus CTCs/DCHS channel storage (connected to relay station operation)

On display receive 465.525 sub-audio, 67.0 rounds and 465.525 sub-audio DCHS2 as an example)

1. press [MENU] key to display the menu, adjust to 11 items.
On display: CTC/CH2/CH3, press [MENU] key to display OFF flashing, use knob to select and receive sub-audio data (67.0), and press [MENU] key to confirm.
2. Use knob to select 11 menu: CTC/CH2/CH3, press [MENU] key to display OFF flashing, and use knob to select and transmit digital sub-audio data (DCHS2), press the [MENU] key to confirm that [EXT] is pressed.
3. Adjust the receiving frequency to the correct that required receiving frequency of 465.525 with the keyboard, press the [MENU] key to adjust to 47 menu, display MEMA-CH001, then press the [MENU] key 001 to flash, press the [MENU] key to confirm, display CH001, receive and store, and press [EXT] to exit.
4. Press the required radio frequency point with the keyboard, press [MENU] to adjust to 47 items to display MEMA-CH001, then press [MENU] to confirm, display CH001 to exit flashing, press [MENU] to confirm, and press [EXT] to exit the transmission and storage.

9	BEEP	Keypad Voice Prompt	ON/OFF	Turn ON/OFF keypad voice prompt
	R-DCS	Receive - Digital Coded Squelch	DD23H + DT46	Squelch opens when proper DCS code is obtained
			OFF	No DCS code required
	T-DCS	Transmit digital mode	OFF	No DCS
			DD22H - DT54	Turn off sequences of digital mode
	D-SUB	Subtone display switch	OFF	Turn off sub-audio
			ON	Turn on sub-audio
3	CC-BEF	Channel display	ON	In the channel mode of zone x
			FREQ	Channels are displayed in frequency
			NAME	In the channel mode of zone x
			OFF	Channel numbers are displayed in frequency
			OFF	No tones are heard through the speaker when transmitted
4	DTMFST	DTMF Side Tone	KEY	Only manually keyed DTMF codes are heard
			ANI	Only automatically keyed DTMF codes are heard
			BOTH	All DTMF codes are heard
5	BOL	Bury Channel Lockout	ON	Prevents transmission of active signal on the channel
			OFF	No lockout

16	SC-ADD	Add Scan Channel	ON	Add channel to scan list
			OFF	Remove channel from scan list
17	LANGUA	Menu language	ENG	The menu is displayed in English
			CHINESE	The menu is displayed in Chinese
18	DWR_TX	Multi-guard emission	TRACK	Always track the received frequency point
			FIXED	Transmission with the main frequency transmission
19	SC-REV	Scan Resume Method	CO	(Carrier Operation) Scan stops when signal detected. Scan resumes when signal disappears.
			SE	(Search Operation) Scan stops when signal detected. Scanning will not resume.
			OFF	No optional signalling
			OTNF	OTNF signalling selected
20	OPTSIGO	Optional Signaling	STONE	STONE signalling selected
			STONE	STONE signalling selected

- **Menu function setting operation** (which can be operated by keyboard)
 - 0. [MENU] [H]Key: TDT turns on or off the dual-frequency standby setting. (On, it will turn on and the simultaneous standby setting of the upper and lower group frequencies on the screen. OFF, it will only waiting for the frequency indicated by the arrow on the screen.) After adjustment, press the [MENU] key to store the parameters.
 - 1. [MENU] [H]Key: STDT sets the step value of frequency of frequency mode. It can be set at 1.2MHz, 4.5MHz, 10MHz, 12.5MHz and 25MHz. After adjustment, press the [MENU] key to store the parameters.
 - 2. [MENU] [H]Key: STDT sets the square level of SGL receiver, which is divided into 0 levels to set the squatch level according to the arrow on the screen. It can be a multi-step increase; according to adjustment, press [MENU] key to store parameters.
 - 3. [MENU] [H]Key: TDT transmits setting. HGRH is high power output and LWR is low power output. After adjustment, press the [MENU] key to store the parameters.
 - 4. [MENU] [H]Key: SCH sets frequency scanning setting. (On/Off Low, 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] [H]Key: TDT transmits line level setting. But the transmission time of each intercom. The value ranges from 1 to 10 seconds, with a value of 15 seconds adjustment. After adjustment, press the [MENU] key to store the parameters.
 - 6. VOL: Volume 0, 12.3, 45. Adjust the output volume of the car platform. The higher the number, the higher the volume.
 - 7. [MENU] [H]Key: VNU with remote band setting. WIDE is wide band and HARR is narrow band. After adjustment, press the [MENU] key to store the parameters.

8. **[MEMIO] Key1** Key1: automatic twilight time setting of RGB sensor. OFF means the screen is lit always, and the value of 1-50 seconds can adjust the twilight time of the screen. After adjustment, press the [MEMIO] key to store the parameters.

9. **[MEMIO] Key1** Key2: BEEP tone switch. OFF is off and ON is on. After adjustment, press the [MEMIO] key to store the parameters.

10. **[MEMIO] Key1** Key3: R/GBS receive digital sub-audio sequence. OFF means the R/GBS is a forward standard digital sub-audio sequence, and DOGG27[0] is a reverse standard digital sub-audio sequence. After adjustment, press the [MEMIO] key to store the parameters.

11. **[MEMIO] Key1** Key4: R/GBS receive analog sub-audio sequence. OFF means the R/GBS is a forward standard analog sub-audio sequence, and DOGG27[1] is a reverse standard analog sub-audio sequence. After adjustment, press the [MEMIO] key to store the parameters.

12. **[MEMIO] Key1** Key5: T/CTOS transmit digital sub-words.

Setting: OFF means of DOGG28[0] is a forward standard digital sub-words sequence, and DOGG28[1] is a reverse standard digital sub-words sequence. After adjustment, press the [MEMIO] key to store the parameters.

13. **[MEMIO] Key1** Key6: T/CTOS transmit analog sub-words.

Frequency setting: OFF means of 67.3442-254.192 simulates the standard sequence of music, and at the same time, you can directly type the standard or non-standard analog music through the keyboard. After adjustment, press

			OT	Search opens for CTCSS/ DCS tones only. Search opens when CTCSS/DCS tone is recognized along with the optional signaling.
21	SPEAKTE	Speaker Mode Settings	OR	Search opens when either the CTCSS/DCS tone OR the optional signaling is recognized.
			OFF	Do not send
22	PTT-ID	PTT ID - When to send	BOF	Send at Beginning of Transmission
			END	Send at the End of Transmission
23	PTT-TLT	PTT ID - Transmit Delay	0	Start Delay Between End of Transmission and Start of Next Transmission
24			30	Set Delay Time
			AN	Send Alarm code and ID code
25	EMC-TP	Alarm Mode	BOF	Both of above
			000	000 = 999
			AN	Send Specified Alarm Channel
			0	The larger the value, the further the sound. OFF means no sound transmission is made.
27	VDX	Acoustic emission	OFF, 1, 2, 3, ..., 10	1 - 10 is the severity level of voice control starting from 1.
	CHNAME	Channel Name	Channel Name	Channel Name, with the Current Name
			PRED	
	CAMDF	Channel Display Mode	CH	In Channel Mode, display the selected format in display A.
			NAME	

		PREC	
		CH	
		NAME	
20	CB-MOD B Channel Display Mode		Is Channel Mode, display the selected format in channel B
21	VDD-T Voice control delay	0, 1, 2, 3, ..., 20	Voice control starts transmitting from voice The signal disappears to stop transmitting Delay time
22	ST-FC Status bar character colour	colour	Colour setting of upper status character display
23	MF-FC Color of dominant character	colour	Color setting of main frequency character display
24	SFA-FC A-character colour	colour	Color setting of characters in channel A display area
25	SFB-FC B-character colour	colour	Color setting of characters in B channel display area
36	MEMO Memory Channel	000 ~ 199	Indicates channel number to be stored. "CH" will appear after channel is stored.

the **[MENU]** key to store the parameters.

14-D-USB: audio display switch **OFF** turns off audio display at this time. Only USB audio display is enabled, but the specific value of sub-audio and not displayed on turns on audio display to display the sub-audio values currently set and stored.

15-**[MENU]** **[HOLD]** **[HOLD]** key: **DTMF** ST **DTMF** storage code is on/Close the signal. **OFF** is off to store **DTMF** code. This routine does not send out the sound of this code, and KEY tone only sends out the sound of this code when pressing the key to send out the code. And only sends out the sound of the code when the tone code automatically (DTMF) key code sending and automatic code sending are sent locally

16-**[MENU]** **[HOLD]** **[HOLD]** key: **AC-DC** auto send and auto receive

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 to the scan list. After adjustment, press the **[MENU]** key to store the parameters.

17-**[MENU]** **[HOLD]** **[HOLD]** key: **PMR-SC** priority scanning setting

Setting of **PMR** key priority scanning, and ON turns on priority scanning. After adjustment, press the **[MENU]** key to store the parameters.

18-**[MENU]** **[HOLD]** **[HOLD]** key: **SC-CEV** scanning recovery mode

Setting of **SC** in the stored mode. After recovering the channel, it is easy for a period of time and continue scanning. **CO** scans in carrier mode and continues scanning when receiving carrier signal. **SE** scans in search mode and receives carrier signal.

19-**[MENU]** **[HOLD]** **[HOLD]** key: **SC-CEV** signaling mode

Setting of **SC** in the stored mode. When the signal is not signaling. **DTMF** mode is not signaling. After adjustment, press the **[MENU]** key to store the parameters. Stop signaling when

the signal and signaling match with this machine at the same time. After agreement, pass the [REDACTED] key to store the parameters:

2) [REDACTED] and [REDACTED] key: SPKATE speaker-tom-on mode setting. GT turns on the speaker for the matching received sub-audio with the sub-audio value. The machine will not sub-audio to set. The speaker will be turned on after receiving the carrier. AND turns on the IoTs when the received sub-audio and optional signaling match with the sub-audio and optional signaling set by the local machine, or turns on the horn when the received sub-audio and optional signaling match with the sub-audio and optional signaling set by the local machine, or turns on the horn after receiving the carrier. IoT sub-audio to set. After agreement, pass the [REDACTED] key to store the parameters:

2) [REDACTED] and [REDACTED] key: PTT-PTT is transmission setting. OFF means no C-took is sent during transmission. BOTT means C-took is sent at the beginning of transmission. Both means C-took is sent at the end of transmission. C-took means C-took is sent at the beginning and end of transmission. IoT code is the signaling information code in dial-in memory preset by PT software, which can be selected through item 24 of menu. After agreement, pass the [REDACTED] key to store the parameters:

2) [REDACTED] and [REDACTED] key: PTT-PTT is transmission delay setting. 0-30 delay time between sending C-took in code and receiving equipment, press the [REDACTED] key to store the parameters.

2) [REDACTED] and [REDACTED] key: S-RPT signaling information and automatic.

Due to memory: 1-15 groups of signaling storing and recording memories. You can only write one group of memories. After agreement, pass the [REDACTED] key to store the parameters:

DEL	Delete Channel	00 = 199	Indicates channel number to be deleted. "CH" will disappear after channel is deleted.
SFTO	Frequency Shift Direction	OFF	No Offset (simplex)
		+	Plus frequency shift
		-	Minus frequency shift
OFFSET	Frequency Shift Offset Amount	00.00 = 69.99	Frequency shift in MHz
ANI	ANI ID Code	Can only be set with software	
		2, 4, 5	
ANL	ANI Length		Length of ANI ID code
REP-S	Repeater Activation Time	100MHz, 140MHz, 175MHz, 210MHz	Activation time for repeater activation
SFC-F	C - character color	color	C channel display area character color setting
SUB-F	Color of dumb characters	color	Sub-area display character color

45	STE	Speech List Elimination. Requires both radio have elimination.	OFF	Eliminates OFF	Function: Speech List at end of transmission.
46	RP-STE	Reverse Speech List Elimination. Requires a repeater using this function.	ON	Function: OFF	
47	RPFLC	Repeater speech list delay	1-10	Function: OFF	
48	RESEI	Initiate to Factory Defaults	OFF	Function: OFF	
49	FW-FC	BATT color	1-10	Day/Time	
50	51G-FC	Signal color	VFD	Menu Initialization	
51	WNUF	Menu color	ALL	Menu and Channel Initialization	
52	7C-FC	Emerson-character color	colour	Battery-ready frequency display Character color	
53	YU-FC	Signal color	colour	Display color of bottom status bar	
54	YUFC	Menu color	colour	Display color of menu characters when setting menu	
55	7C-FC	Emerson-character color	colour	Color displayed when currently active channel is transmitted	
56	RU-FC	Receive Character Color	colour	Carrier received by current active channel	
57	YU-FC	Signal color	colour	Display color when	
58	WNUF	Channel storage	000... 999	It is recommended that channel storage programs used be the same. If the user ID is displayed to start the channel, the user ID should be displayed to start the channel. If the user ID is displayed to start the channel, the user ID should be displayed to start the channel.	

21. [MENU] [Key] [Key] [Key] [Key] : EMG-7T alarm mode setting Note: ALARM is the alarm tone heard in this machine. AME is the alarm code and local identity code sent when alarming, and B7CH alarm area and local identity code are sent by the machine when alarming. After adjustment, press the [MENU] key to store the parameters.	21. [MENU] [Key] [Key] [Key] [Key] : ems channel display setting In channel mode, FREQ is displayed as frequency, or is displayed as channel number, and NAME is displayed as channel name (specific name is set in entering frequency software). After adjustment, press the [MENU] key to store the parameters.
22. [MENU] [Key] [Key] [Key] [Key] : CH1 alarm channel setting Note: CH1 is CH1 Channel, the designated alarm channel when alarming, and is displayed as an effective channel when alarming. After adjustment, press the [MENU] key to store the parameters.	22. [MENU] [Key] [Key] [Key] [Key] : CH1 emf channel display setting In channel mode, FREQ is displayed as frequency, and NAME is displayed as channel name (specific name is set in entering frequency software). After adjustment, press the [MENU] key to store the parameters.
23. [MENU] [Key] [Key] [Key] [Key] : B7C/B7G alarm information setting Note: B7C/B7G is the optional signaling without reminding when it is valid.	23. [MENU] [Key] [Key] [Key] [Key] : B7C/B7G channel display setting In channel mode, FREQ is displayed as channel number, and NAME is displayed as channel name (specific name is set in entering frequency software). After adjustment, press the [MENU] key to store the parameters.
24. [MENU] [Key] [Key] [Key] [Key] : CH1NAME channel name setting Note: In channel mode, still in the channel name of the current channel. After adjustment, press the [MENU] key to store the parameters.	24. [MENU] [Key] [Key] [Key] [Key] : CH1 emf channel display setting In channel mode, FREQ is displayed as channel number, and NAME is displayed as channel name (specific name is set in entering frequency software).

25. [NAME] [type] [key] [w] - FREQ is channel display frequency. In Channel mode, FREQ is displayed as frequency, ch is displayed as channel number, and NAME is displayed as channel name (specific name is set in the writing key to store the parameters).	3.1 LANGUAGE menu language ENG menu is displayed in English/TH menu is displayed in Chinese
26. [NAME] [type] [key] [w] - CMT is channel display frequency. In Channel mode, FREQ is displayed as frequency, ch is displayed as channel number, and NAME is displayed as channel name (specific name is set in the writing key to store the parameters).	3.2 QMR TX multi-gate transmission TRACK tracking moment. The frequency point of transmission. The FREQ main frequency is always transmitted at the main frequency
27. [NAME] [type] [key] [w] - CMT is channel display frequency. In Channel mode, FREQ is displayed as frequency, ch is displayed as channel number, and NAME is displayed as channel name (specific name is set in the writing key to store the parameters). After adjustment, press the [MENU] key to store the parameters.	3.3 VOICE voice control transmission OFF, 1, 2, 3, ..., 10 OFF voice control transmission is set, 1, 2, 3, ..., 10 voice control the frequency point of transmission. The larger the value, the more precise the sound.
28. CC-MOPF - channel shows that adjustment, press the [MENU] key to store the parameters.	3.4 VOICE Voice control display 0.1/2.3, ..., 20 OFF Launch off, 1, 2, 3, ..., 20 voice-controlled and sensitive. Display level, the greater the value, the more precise the sound can be defined.
29. CC-MOPF - channel shows that adjustment, press the [MENU] key to store the parameters.	
30. CC-MOPF - channel shows that adjustment, press the [MENU] key to store the parameters.	

DEL-GI	Channel deletion	000, ..., 199	If there is no CH, it means the channel No parameters, invalid operation, delete the channel parameters of the specified channel.
REP-G	Transit signaling	1000	When launching, it will be launched when the CALL key is pressed Out of the single frequency tone frequency used for location (see note below)
TMR-WR	Main frequency return delay	OFF, 1, 2, 3, ..., 50	Main frequency return delay time during multi- frequency waiting
RPT-GL	Relay tail delay	OFF, 1, 2, 3, ..., 50	Detest the tail sound of the relay to confirm this time Turn Effective
DTMF-G	Dual tone multifrequency gain	OFF, 1, 2, 3, ..., 60	Set DTMF gain, the larger the value, the other parts: The strength of the DTMF signal received from this machine.
SIG-AP	Signaling valid prompt	Off ON	Don't remind when optional signaling is valid Remind when optional signaling is valid

The key technical indexes	
Overall specifications	
frequency range	EU Tx 144-146/148-149/150MHz US Tx 144-146/148-149/150MHz
Number of channels	200 channels
channel spacing	25KHz 12.5KHz
Phase-locked stepping	96KHz, 625KHz, 100KHz, 12.50KHz, 130KHz, 25KHz.
operating voltage	13.8V DC ± 15%
Mute mode	CTCSS / DCS / 5Tone / 2Tone / DTMF
frequency stabilization	± 2.5ppm
Operating temperature of degree	-10 ~ +55°C
measure	98 W × 51 H × 118 D mm
weight	400g

- 35.AUTLOCK: keyboard auto lock Off turns off keyboard auto lock On turns on the keyboard automatic locking
- 36.CHANNEL: Channel display shows after the character "CH:"
- 37.MF-CL: channel or domain character Display color of dominant characters Select
- 38.SB-FC: c-channel user name a channel display area character color
- 39.SB-FS-CB: channel color a channel display area character color
- 40.SB-FS-CB: channel color a channel display area character color
- 41.SB-MC: c-channel color a channel display area character color
- 42.FM-A-B-C-T: color battery/electricity display parameter Color
- 43.BG-P: the display color of the status bar at the bottom of the input character color
- 44.MEM-FC: menu character color menu character when setting menu Display color
- 45.TS-CT: transmission-character color is displayed when the currently active channel is transmitted Show color
- 46.CS-FC: channel frequency settings
- 47.MEM-DI-FC: channel display color when carrier wave is received Channel channel storage 000...199 storage label Channel used to indicate the channel number of the report.
- If Show CH in front of the number, indicating that Channel parameters are originally stored in the channel.
- 48.CH-CC: channel channel 000...199 operation designation Channel parameters of the channel. If there is no CH label before This channel has no parameters, and the operator is made
- 49.DT-FD: frequency difference detection setting Off set off at frequency mode, there is no frequency difference between transmitting frequency and receiving frequency *plus in Frequency mode, the transmitting frequency is equal to the receiving frequency
- Frequency difference frequency reduction in

frequency mode, transmission frequency

is equal to the receiving frequency MINUS the frequency difference

50.0FSET = frequency difference frequency setting

00.00F = frequency mode

Type: difference between the transmitting and receiving frequency (unlike to poor frequency
your direction control)

51.ME ID code setting XXXXXX is used to observe the setting of the machine identity code (this identity code can only be written by setting factory)

52.ME ID code setting 3,4,5 Effective length of total ID code

53.89F = channel signaling settings, 1000, 1450, 1750, when transmitting, the single frequency channel when the CAL key is pressed

Tone frequency used to activate relay station.

54.TMRMR,OFF,OFF, 1, 2, 3, ... 80

Main frequency relay delay time during multi-frequency calling

55.STE: Direct Frequency Shift Elimination (OFF) Of One Class Communication function on turn on after the end of end elimination function

56.RP SET: may ending elimination (OFF), 1, 2, 3, ... 10

eliminates the tail signal generated when ringing

57.RPTOLD, may tail off (OFF), 1, 2, 3, ...

→ To delete the tail signal of the reply to confirm that the reply is effective

58.DTMG-F, DTMG-F, 1, 2, 3, ... 60

So DTMG-F can be the largest value, the other party receives the machine

The stronger the DTMF signal and sent, 59.BWset: the 40 MHz menu is installed, and ALL the relevant factory settings

Main and channel installation

	Bandwidth	narrow band
54		
55	Sensitivity (12dB SINAD)	$\leq 0.25\mu\text{V}$ $\leq 0.35\mu\text{V}$
56	Adjacent channel selectivity	$\geq 70\text{dB}$ $\geq 60\text{dB}$
57	Intermodulation	$\geq 65\text{dB}$ $\geq 60\text{dB}$
58	False signal responses	$\geq 70\text{dB}$
59	Audio response	$\pm 1-3\text{dB}$ (0.3-3KHz) $\pm 1-5\text{dB}$ (0.3-2.55KHz)
60	SNR	$\geq 45\text{dB}$ $\geq 40\text{dB}$
61	Audio distortion	$\leq 5\%$
62	Audio output power	$\geq 2\text{W} \pm 10\%$

	Bandwidth	1— narrow band
output rating	25W	
modulation system	16K6F3E	11K6F3E
Adjacent channel power	$\geq 70\text{dB}$	$\geq 60\text{dB}$
SNR	$\geq 40\text{dB}$	$\geq 36\text{dB}$
Parasitic and harmonic	$\geq 60\text{dB}$	$\geq 60\text{dB}$
audio response	$\pm 1-3\text{dB}$ (0.3-30kHz)	$\pm 1-3\text{dB}$ (0.3-2.65kHz)
Audio distortion	$\leq 1\%$	

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

EU Warning Statement

Use the Mobile RADIO in the environment with the temperature between -10°C and 55°C, otherwise, it may damage your radio. It can be operating under 2000m.

Hereby, We, declare that the radio equipment type Mobile Radio is compliance with RED Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: www.XXXXX.com

RF Exposure Warning Statements:

This equipment complies radiation exposure limits set forth for an uncontrolled environment. This equipment shall be installed and operated with minimum distance 130 cm between the radiator & body.

Caution:

To prevent possible hearing damage, do not listen at high volume levels for long periods.

FCC Warning Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 including received interference that may cause undesired operation.

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 not occur in a particular installation.

If this equipment does cause harmful 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.
- Consult the dealer or an experienced radio/TV technician for help.

RF Exposure and Separation Distance

This radio transmitter has been approved by FCC to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

WARNING: MODIFICATION OF THIS DEVICE TO RECEIVE CELLULAR RADIOTELEPHONE SERVICE SIGNALS IS PROHIBITED UNDER FCC RULES AND FEDERAL LAW