Hand microphone display platform



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

DTMF signaling

Manual channel storage and deletion operation

Switch keyboard lock. send transit signaling

Setting of PTT ID Optional signaling settings DTMF signaling settings

catalogue

matters need attention

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Same frequency and different frequency channel storage

Inter-frequency channel storage (connection relay station operation)

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

Different frequencies plus CTCSS/DCS channel storage (connected to relay station operation)

matters need attention

Overview of the Front Panel

8GND

Note: the PC port is above the power supply

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

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.

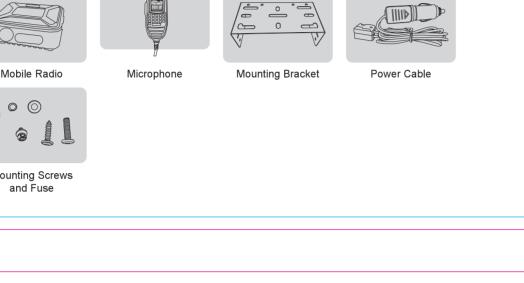
Unpacking and inspection device Welcome to the radio. Before use, I suggest you:





Mounting Screws and Fuse

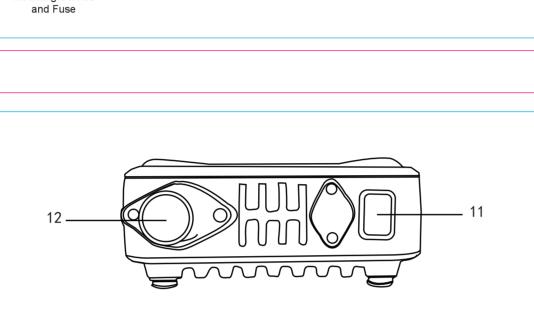




① Please check the packing box of this product for signs of damage; 2) Please carefully open the packing box and confirm whether there are items listed in the table below;

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





11: power cord 12: Antenna interface

Write frequency data port

2:MIC GND

5:DATA\_A 6: VDD (+8V)

7: DATA\_B

8: GND

3:SP ( Horn output )

Co-channel storage 1. press the required frequency with the keyboard, such as 4. section b display channel: in item 30 of the menu, press 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

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

Same frequency and different frequency channel storage

complete the exit. 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. 3. display channel in section a: in item 29 of the menu. press the "menu" key to display the dishes

Press the [MENU] keyThe FREQ flashes and is selected

with the knob, CH shows the channel, FREQ shows the

Menu function setting operation

0. [MENU]+[0 Key]: TDR turns on and off the dual-fre-

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

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

2. [MENU]+[2 key]: setting the squelch level of SQL

receiver, which is divided into 10 levels to set the squelch

depth according to the use environment. 0 is mute on; 1-9

is mute depth increasing; after adjustment, press [F Key] to

3. [MENU]+[3 Key]: TXP transmit power setting. HIGH is

adjustment, press the [MENU] key to store the parameters.

high power output and LOW is low power output. After

[MENU] key to store the parameters.

store parameters

frequency indicated by the arrow on the screen. After

frequency+channel number, and press the [MENu] key to

Monotonic to item 29, showing CA-MDF

the [MENu] key to display the dishes Monotonic to 30 items, display CB-MDF Press the [MENU] keyFREA flashes, use the knob to select. CH shows the channel, FREQ shows the frequency+channel number, and press the [MENU] key to confirm. 5.Exit the menu, press PTT, and use the [EXIT/AB] key to

DATAQ

Inter-frequency channel storage (connection relay station operation)

1. 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. 2. 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-O01, press the [MENU] key. CH-001 flashes, press the [MENu] key again, and the different frequency storage is completed, and press the [EXIT] key.

4.[MENU ]+[4 Key]: SCR voice encryption scrambling

realized. OFF is off. After adjustment, press the [MENU] key

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

setting. ONTo turn it on, call voice encryption can be

to store the parameters. (This function is optional)

the [MENU] key to store the parameters.

## ■ Different frequencies plus CTCSs/DCS channel storage (connected to relay station operation)

(Take receiving 465.525 sub-audio, 67.0 rounds and 455.525 sub-audio DO23N as an example) 1. press [[MENU key to display the menu, adjust to 11 items to display R-CTCS/OFF, 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 12 menus T-DCS/OFF, then press [MENU] key to display OFF flashing, and use knob to select and transmit digital sub-audio data

(DO23N), press the [MENU] key to confirm that [EXIT] is 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 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. 4. Press the required radio frequency point with the

keyboard, press [MENU] to adjust to 47 items to display MEM-CH001, then press [MENU] to display CH001

flashing, press [MENU] to confirm, and press [EXIT] to exit

8. [MENU]+[8 key]: automatic backlight time setting of ABR screen. OFF sets the screen to be always on, and the

screen. After adjustment, press the [MENu] key to store the 9.[ MENU ]+[9 Key]: BEEP tone switch. OFF is off and ON is on. After adjustment, press the [MENU] key to store the 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

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

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. the parameters.

DO23I-D754I is a reverse standard digital sub-audio sequence. After adjustment, press the [MENu] key to store

11. [MENU]+[1 Key]+[1 Key]: R-CTCS receive analog sub-soundsFrequency setting. OFF means off, 67.0HZ-254.1HZ simulates the standard sequence of mute, and at the same time, you can directly type the standard or non-standard analog mute through the keyboard. After adjustment, press the [MENU] key to store the parameters. 12.[MENU]+[1 Key]+[2 Key]: T-DCS transmits digital

sub-audio Setup. OFF means off, DO23N-D754N is a forward standard digital sub-audio sequence, and DO23I-D754I is a reverse standard digital sub-audio sequence. After adjustment, press the [MENU] key to store the parameters. 13.[ MENU]+[1 Key]+[3 Key]: T-CTCS transmit analog

Frequency setting. OFF means off, 67.0HZ-254.1HZ simulates the standard sequence of mute, and at the same time, you can directly type the standard or non-standard

sub-sounds analog mute through the keyboard. After adjustment, press

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 16. [MENU ]+[1 Key]+[6 Key]: SC-ADD scan and add

Set. When the storage channel is turned OFF, the stored

and BOTH alarm tones and local identity codes are sent by

this machine when alarming. After adjustment, press the

25.[ MENU ]+[2 Key]+[6 Key]: EMC-CH alarm channel

channel in front of this channel. After adjustment, press the

26.[MENu]+[2Key]+[6key] sIG-BP: signaling includes

Effective tips. OFF turns off the optional signaling without

27.[ MENU]+[2 Key]+[ 7Key]: CHNAME channel name

current channel. After adjustment, press the [MENU] key to

Series. In channel mode, edit the channel name of the

setting Set. 000-199 CHannel, the designated alarm channel when alarming, and ch is displayed as an effective

[MENu] key to store the parameters.

[MENU] key to store the parameters.

reminding when it is valid.

store the parameters.

channel is not added to the scan list. When storing

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

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

channels ON, the stored channels should be added to the the signal and signaling match with this machine at the same time. After adjustment, press the [MENU] key to store

> 20.[MENU]+[2 Key]+[1 Key]: SPMUTE speaker turn-on mode setting. QT turns on the speaker for matching the received sub-audio with the sub-audio set by this machine. If no sub-audio is set, the speaker will be turned on after receiving the carrier. AND 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 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 if no sub-audio is set. After adjustment, press the [MENU] key to store the parameters.

BOT means ID code is sent at the beginning of transmission. EOT means ID code is sent at the end of transmission, and BOTH means ID code is sent at the beginning and end of transmission (ID code is the signaling information code in dial-up memory preset by PC software, which can be selected through item 24 of menu). After adjustment, press the [MENu] key to store the parameters. 22. [menu]+[2 key]+[2 key]: PTT-lt PTT-id transmission delay setting. 0-30 delay time before sending ID code (in seconds). After adjustment, press the [MENU] key to store the parameters.

21. [MENU]+[2 key]+[1 key]: PTT-id PTT-id transmission

setting. OFF means no ID code is sent during transmission,

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

24.[MENU]+[2 Key]+[5 Key]: EMC-TP alarm mode setting 28. [menu]+[2 key]+[8 key]: ca-mdfa channel display Set. ALARM is the alarm tone sent by this machine, ANI is settingsSet. In CHannel mode, FREQ is displayed as frequency, ch is displayed as channel number. and NAME the alarm code and local identity code sent when alarming,

> 29. [menu]+[2 key]+[9 key]: CB-MDF b channel display settingsSet. 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 writing frequency software). After adjustment, press the [MENU] key to store the parameters. 30.CC-MDF:C- channel shows that area c is in channel mode, Channels are displayed in frequency. Area C is in channel mode

[MENU] key to store the parameters.

, the channel is displayed by channel number. C zone is in the letter

is displayed as channel name (specific name is set in writing frequency software). After adjustment, press the [MENU] key to store the parameters.

In channel mode, channels are displayed by channel name (the specific name is set in the writing frequency software)

28. [menu]+[2 key]+[8 key]: ca-mdfa channel display settingsSet. 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 writing frequency software). After adjustment, press the

29. [menu]+[2 key]+[9 key]: CB-MDF b channel display settingsSet. 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 writing frequency software). After adjustment, press the [MENU] key to store the parameters. 30.CC-MDF:C- channel shows that area c is in channel mode, Channels are displayed in frequency. Area C is in channel mode

, the channel is displayed by channel number. C zone is in the letter In channel mode, channels are displayed by channel name (the specific name is set in the writing frequency software)

31.LANGUA: menu language ENG menu is displayed in EnglishThe menu is displayed in Chinese.

received The frequency point of transmission. The FIXED main frequency is always transmitted at the main frequency. 33.VOX: voice control transmission is OFF. 1, 2, 3, ... 10 OFF voice control transmission is off, 1,2,3, ... 10 is voice

32.DMR TX: multi-quard transmission TRACK tracking

controlStart the sensitivity level. The larger the value, the more generous the sound Can start. 34.VOX-T: Voice control delay 0,1,2,3,... 20 OFF

Launch off, 1, 2, 3, ... 10 is voice-activated and sensitive Degree level, the greater the value, the more generous the sound can be started.

000.000 in frequency mode Type, the difference between the transmitting and receiving frequency (whether to poor frequency Poor direction control) 51.ANI: ID code setting XXXXX is used to observe the setting of this machine Identity code (this identity code can

53.REP-S: transit signaling settings. 1000, 1450, 1750, 2100, when transmitting, the single frequency emitted when the CALL key is pressed Tone frequency, used to activate relay station.

54.TMR-MR:OFF, OFF 1, 2, 3, ...50

Main frequency return delay time during multi-frequency

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

Menu and channel initialization

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.

+[3] +[MENU] +[DOWN], select 67.0HZ+[MENU] Switch keyboard lock +[EXIT/AB] to exit saving. (If you don't need sub-audio, you Press the key [#] of the microphone keyboard for more than 2 seconds during standby time to turn on or off the 3. Select menu item 47 for channel storage, and press keyboard lock function. [MENU] +[4] +[7] +[MENU] +[UP] (DOWN) to select channel

Select the transfer signaling frequency to be sent (this

Send transit signaling

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 Setting of PTTID

The PTT-ID sent by this machine is the ID code prestored by the writing software. You can write by PC frequency writing software (click PTT-ID option box of optional 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 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.

Optional signaling settings DTMF

Manual channel storage and delete

in frequency mode. For example, the frequency of

Enter the frequency to be used directly with the keyboard

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

to be used (menu items 12 and 13). For example, when

items 10 and 11) and the transmitting sub-audio frequency

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]

number +[MENU] to store channels in turn.

operation channel storage:

can all select OFF)

signaling settings This machine has DTMF coding and decoding function. You can write the signaling information code through PC and frequency software (click the signaling editing DTMF option of frequency software to set it). DTMF signaling

DTMF signal and preset body When the codes are consistent, the receiver will be able to 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).

After the receiver sets DTMF signaling, when receiving

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

2. Press the [MENU] key to select the 24th item S-INFO,

grammed signaling group numbers 1-16. (use of 2TONE

3. When the received 2TONE signal is consistent with the

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 ringing caption and display the information code. You can

talk back and forth within the effective time (the identity code can be preset by PC frequency writing software), and

Hand microphone description (optional2)

1 Short press MOMI and long press power on

(6) 6EXIT/VM ",exit AB channel switching, alarm function

8 "#/LOCK": keyboard lock function, number "#"

7 " \*/SCAN": frequency reversal function, scan, number " \* "

Keypad Voice Prompt

1 T-DCS Transmit digital mute

2 D-SUB Subtone display switch

3 CC-MDF C- channel display

4 DTMFST DTMF Side Tone

BCL Busy Channel Lockout

21 SPMUTE Speaker Mute Settings

22 PTT-ID PTT ID - When to send

1 29 CA-MDF A Channel Display Mode

43 SFC-FC C- character color

44 SUB-FC Color of dumb characters

Channel deletion

When monitoring is turned

on, the up and down keys car

adjust the volume, and press for

a long time to quickly adjust the volu

ON/OFF

D023N > D754I

OFF

OFF

OFF

**FREQ** 

NAME

CH

KEY

ANI

вотн

ON

D023N,...,D754I

Short press CALL and long press ALARM

(3) "MENU" function key

9 0 ":the number 0

(10) 1 ":the number 1

11) 2 ":the number 2

12 3 ":the number 3

(13) 4 ":the number 4

(14) 5 ":the number 5

15 6 ":the number 6

16 7 ":the number 7

8":the number 8

9":the number 9

4 "UP": frequency step upward

(5) "DOWN": frequency step down

preset 2TONE code, the corresponding function will be

4. Press the [CALL] key in standby mode to send the

selected 2TONE information code group.

5TONE signaling setup

and then press the [Menu] key to select the pre-pro-

can be set by PC writing software)

To be preset by PC writing frequency software).

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

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 writing frequency software).

cannot be restored until the corresponding boot code is

the [CALL] key sends 5TONE

to start 5TONE signaling.

choose not to fill them out as needed.

selected 5TONE information code group.

Monitoring function

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

1. press the [MENU] key (menu function key) to select the

20th OPTSIG and then press the [F] key to select 5TONE

2. Press the [menu] key to select the 24th item S-INFO, and

then press the [F] key to select the pre-programmed

3. Press the [CALL] key in standby mode to send the

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

by the master ID, and not by the receiving signaling. (the remote code can be preset by PC writing frequency Boot function

received. This function can choose whether it is controlled

When the received DTMF signal is consistent with the preset boot code, the receiver will cancel the function of returning to normal from remote death and halo. This function can choose whether it is controlled by the master ID, and not by the receiving signaling. (the power-on code can be preset by PC writing software).

Alarm function When the received DTMF signal is consistent with the preset alarm code, the receiver will give an alarm, and the alarm mode and alarm channel can be edited through the optional parameter options of PC frequency writing software. This function is not controlled by master control ID and receiving signaling. (the alarm code can be preset by PC writing software).

perform this function.

+[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. select DTMF signaling. Press [MENu] +[1] +[9] +[MENu]

Signaling is controlled by master ID, which means that

besides signaling code, master ID must be consistent to

Coding format controlled by master control ID: signaling

code+# (separation code)+master control ID code+#

CALL key to send DTMF settings

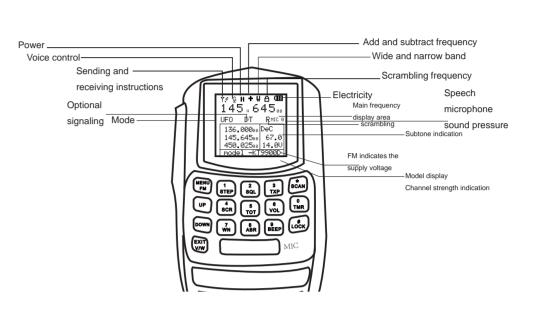
code+# (separator code)+information code

(separation code)+information code

Coding format not controlled by master control ID: signaling

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.

Hand microphone description



2.5 to 25kHz

00 > 09

ON

OFF

2TONE

**5TONE** 

■ Menu definitions Multifrequency waiting STEP Frequency Step Size Setup SQL Squelch Level

TXP Transmit Power 4 SCR Voice Scrambler Time Out Timer

Time out timer pre-aler ABR LCD Backlight Timer

16 SC-ADD Add Scan Channel

18 DMR\_TX Multi-guard emission

19 SC-REV Scan Resume Method

20 OPTSIG Optional Signaling

17 LANGUA Menu language

Turn off multi-frequency waiting and start multi-frequency waiting 2.5, 5, 6.25, 10, 15, 25 kHz 10 squelch levels, 00 = minimum / normally open Full Power Reduced Power Activate Scrambler Function Deactivate Scrambler Function

15 > 600 secs 15 second steps Turn off Time out Timer OFF Disable this function Radio will alert by LED flashing before 1,2,...10 transmitting end 25.0 kHz 12.5 kHz Narrowband 1 > 50 secs Backlight duration = 1 > 50 Backlight remains ON

Add channel to scan list

ON OFF Remove channel from scan list **ENG** The menu is displayed in English Chinese The menu is displayed in Chinese TRACK Always track the received frequency point transmission with the main frequency transmission FIXED

(Carrier Operation) Scan stops when signal

CO detected. Scan resumes when signal disappears (Search Operation) Scan stops when signal detected. Scanning will not resume. OFF No optional signaling DTMF DTMF signaling selected

2TONE signaling selected

5TONE signaling selected

No lockout

Turn ON/OFF keypad voice prompt

Standard sequence of digital mute

In the channel mode of zone c,

In the channel mode of zone c,

All DTMF codes are heard

Channels are displayed in frequency

Channel numbers are displayed in frequency

No tones are heard through the speaker when

Only manually keyed DTMF codes are heard

Only automatically keyed DTMF codes are heard

Prevents transmit if active signal on the channel

No DCS code required

Turn off sub-audio

Turn on sub-audio

No mute

Squelch opens when proper DCS code is

Squelch opens for CTCSS/ DCS tones only. Squelch opens when CTCSS/DCS tone is

recognized along with the optional signaling Squelch opens when either the CTCSS/DCS tone OR the optional signaling is recognized. Do not send Send at Beginning of Transmission Send at the End of Transmission Send at both Beginning and End Set Delay Time

**BOTH** 23 PTT-LT PTT ID - Transmit Delay 0 > 30 Send Alarm code and ID code BOTH Both of the above 26 EMC-CH Alarm Channel 000 > 199 Specified Alarm Channel ne larger the value, the louder the sound. OFF voice control transmission is off, 1,2,3, 27 VOX 0FF, 1, 2, 3, ··· 10 Acoustic emission 28 CHNAME Channel Name Channel Name Edit

AND

EOT

. 10 is the sensitivity level of voice control starting. In Channel Mode, edit the Current Name FREQ In Channel Mode, display the selected format in NAME

30 CB-MDF B Channel Display Mode 31 VOX-T Voice control delay 32 ST-FC Status bar character color 33 MF-FC Color of dominant character 34 SFA-FC A- character color

FREQ In Channel Mode, display the selected format in CH NAME Voice control starts transmitting from voice The signal disappears to stop transmitting 0, 1, 2, 3, ... 20 Color setting of upper status character display colour colour

36 MEMCH Memory Channel

35 SFB-FC B- character color

Color setting of main frequency character display Color setting of characters in channel a display area Color setting of characters in b channel display area Indicates channel number to be stored. "CH" will appear after channel is stored.

37 DELCH Delete Channel 000 > 199 disappear after channel is deleted. No Offset (simplex) 38 SFT-D Frequency Shift Direction Plus frequency shift Minus frequency shift Frequency shift in MHz ANI ID Code Can only be set with software Length of ANI ID code 41 ANI-L ANI Length 3, 4, 5 1000Hz, 1450Hz, 1750Hz 42 REP-S Repeater Activation Tone Audible tone for repeater activation

C channel display area character color setting Sub-audio display character color

If there is no CH-, it means the channel

Remind when optional signaling is valid

No parameters, invalid operation, delete the channel

Repeater Squelch Tail 46 RP-STE Elimination, Requires a repeater using this function. 47 RPT-DL Repeater squelch tail delay 48 RESET Initialize to Factory Defaults 49 FM-FC BATT color 50 SIG-FC Signal bar character color 51 MENUFC Menu character color 52 TX-FC Emission-character color 53 RX-FC Receive-Character Color

Squelch Tail Elimination Function OFF OFF 45 STE Requires both radios have Eliminates squelch tail at end of transmission. function ON. Function OFF 1 > 10 **Delay Time** Function OFF 1 > 10 Delay Time Menu Initialization Menu and Channel Initialization Battery/radio frequency display Character color Display color of bottom status bar colour colour Display color of menu characters when setting menu Color displayed when currently active channel is colour Carrier received by current active channel colour Display color when It means that the channel parameter originally exists in 53 MEM-CH Channel storage this channel. If the word CH- is displayed in front of the number, it is used to indicate that it should be stored when

The channel number of

narrow band

parameters of the specified channel, When launching, it will be launched when the CALL Transit signaling key is pressed Out of the single frequency tone frequency, used for excitation Live relay station Main frequency return delay 0FF, 1, 2, 3, ...50 Main frequency return delay time during multi-**OFF**, 1, 2, 3, ...50 Detect the tail sound of the relay to confirm this Relay tail delay time Turn effective Dual tone multifrequency gain 0FF, 1, 2, 3, ···60 party The stronger the DTMF signal received from this machine. Signaling valid prompt 0FF Don't remind when optional signaling is valid

000. ••• 199

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

35.AUTOLK: keyboard auto lock OFF turns off keyboard auto lock.ON turns on the keyboard automatic locking 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

42.FM-FC:BATT color battery/radio frequency display

43.SIG-FC: the display color of the status bar at the bottom

character color

character Color.

of the signal bar character color.

44.MENUFC: menu character color menu character when setting menu Display color. 45.TX-FC: transmission-character color is displayed when the currently active channel is transmitted Show color. 46.RX-FC: receive-the currently active channel of character color is received Display color when carrier wave is used. 47.MEM-CH: channel storage 000,...,199 storage letter Channel, used to indicate the channel number to be stored, if Show CH- in front of the number, indicating that Channel parameters are originally stored in the channel. 48.DEL-CH: channel deletion 000,...,199 deletion designation Channel parameters of the channel, if there is no CH- table before This channel has no parameters, and the operation is invalid 49.SFT-D: frequency difference direction setting. OFF off, at frequency In 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 plus Frequency difference frequency. -frequency reduction in

frequency mode, transmission frequency Is equal to the receiving frequency MINUS the frequency difference frequency. 50.OFFSET: frequency difference frequency setting.

only be written by writing software) 52.ANI-L ID code length 3,4,5 Effective length of local ID 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.

Receiving part (ETSI EN 300 086 standard test)

94			
		Bandwidth	narrow band
55 56	Sensitivity (12dB SINAD)	≤0.25μV	≤0.35μV
	Adjacent channel selectivity	≥70dB	≥60dB
	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
8	Audio distortion	≤5%	
	Audio output power	≥2W ± 10%	
58	Audio distortion	≤5°	%

Transmitting part (ETSI EN 300 086 standard test)

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	≤5%	

Bandwidth

FCC Statement

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:

Recrient 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this 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 received, including interference that may cause undesired operation.

RF Exposure Information
The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.