

operation instructions

USER'S MANUAL



Professional wireless intercom

PROFESSIONAL FM TRANSCEIVER

Unpacking inspection

Welcome to use the wireless intercom. Before you use it, we suggest that you:

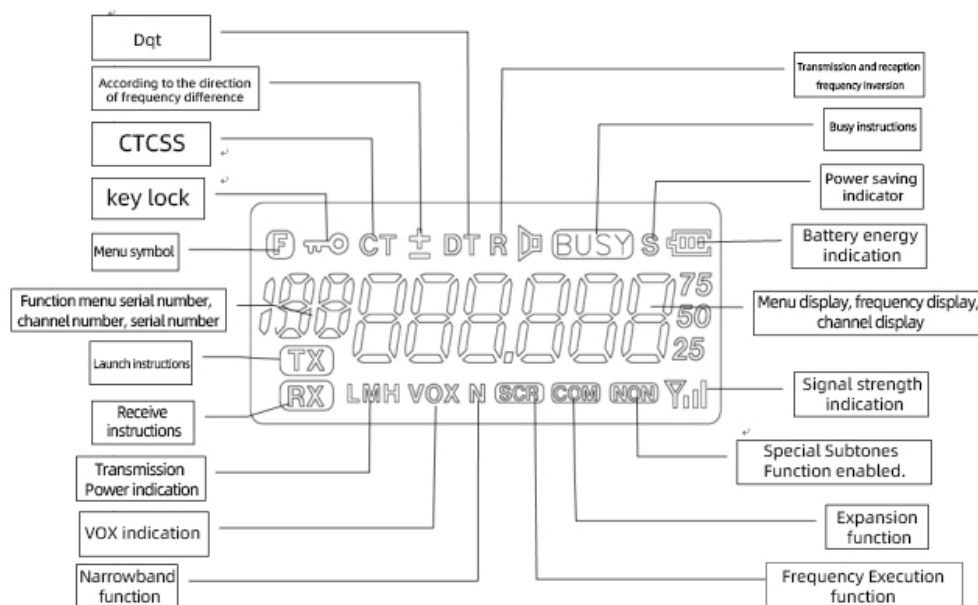
Please first check if there are any signs of damage to the packaging box of this product.

Please confirm if there are any items listed in the table below inside the box. If you find any damage or loss of this product and its accessories, please contact the distributor immediately.

Item	Number
host	1
Battery pack	1
Charger stand	1
USB charger	1
Jacket	1
Lanyard	1
USB charging cable	1
operation instructions	1

Screen display:

On the display screen, you can see various indicators that represent the selected content. Sometimes, you may not remember the meanings represented by these indicators or how to set them. At this time, you will find the following table extremely practical.



Key functions:

1、 There are three side keys, from top to bottom: side key 1-PTTKEY, side key 2-MONIKKEY, and side key 3-WARNING KEY. PTTKEY :

Launch.

MONIKKEY :

Short press the flashlight mode to switch between normally on, flashing, and off, and long press to monitor.

WARNKEY :

Short press to switch between working modes, cycle between channel+frequency mode, channel mode, and frequency mode, long press to trigger remote alarm.

(Note: In the menu interface, pressing any side key will not save and will directly exit the menu interface)

二、 3 face keys, from left to right are face key 1. Exit the menu interface

directly without saving 【▲】 、 Face key 2 【MENU】 、 Face key 3 【▼】 。

【▲】 Add keys, including channel add, frequency add, menu number add

, etc. Long press the key to quickly increase.

【▼】 The decrease key includes channel decrease, frequency decrease, menu number decrease, etc. Long press this key to quickly decrease.

【MENU】：

- 1、 Short press to enter the menu on the main interface, long press the keyboard to lock/unlock and switch.
2. Short press on the menu interface to enter the second level settings. For example , when selecting the LAN menu item, press this key to enter the language second level settings. At this time, you can switch between Chinese and English or turn off using the UP/DOWN keys.
3. Short press under the second level settings of the menu item to confirm the change.
4. Under the menu items' rd 'and' td 'settings, long press the key to switch between the forward and reverse N/I of the numeric sub tone

Menu settings:

Number 0-25, menu items are as follows: (Items with a "three" after the order indicate the presence of a secondary display. Press the OK button to enter the secondary display)

Number 0: SCAN Scan:

Press the OK button 【MENU】 under this menu item to directly enter the scanning mode (the scanning method is determined by menu 9), and during the scanning process, press 【▲】 Like scanning and pressing 【▼】 Like scanning below, press other keys to exit scanning.

Number 1: LAN Language Settings:

There are two languages available on this device, Chinese and English, and you can also set them to none.

Press under this menu 【MENU】 Enter the language setting state, and the menu number 01 stops flashing. At this time, you can press 【▲】、【▼】 Select the language type (CH Chinese, EN English, OF Guan), and press 【MENU】 to confirm and save the selection.

No.2: POW transmission output power selection:

Press under this menu 【MENU】 Enter the selection of transmission power state, menu number 02 stops flashing, at this time you can press 【▲】、【▼】 To switch between high and low power (HI high power, LO low power), press 【MENU】 to confirm and save the selection.

Number 3: SQL Quiet Level:

Choosing the squelch level is actually choosing when the signal reaches a certain strength to turn on the squelch or when the signal drops to a certain strength to turn off the squelch. When the mute is turned on and the local signaling (frequency, sub tone, etc.) is consistent, the speaker will emit sound. Choosing too high a static noise level may result in ineffective reception when the signal is weak; Choosing too low may cause you to be disturbed by noise or other irrelevant signals. Press 【MENU】 under this menu to enter the selection of static noise level state. Menu number 03 stops flashing. At this time, you can press 【▲】、【▼】 Choose (0 to 9 optional) , To complete the selection, you need to press 【MENU】 Confirm and save.

Number 4: VOX voice control level:

When voice is detected, the walkie talkie automatically switches to transmission mode.

The lower the level, the louder the volume required to activate voice control.

The voice control function cannot be enabled in scanning mode.

Press under this menu 【MENU】 Enter the voice control level selection state, and the menu number 04 stops flashing. At this time, you can press 【▲】、【▼】 To make a selection (OF off, specific levels 1 to 9), press the button to complete the selection 【MENU】 Confirm and save.

Number 5: VOT voice control delay

The voice control delay shutdown function is used to prevent the speaker from speaking slowly and pausing for too long, resulting in intermittent emission.

Press under this menu 【MENU】 Enter the state of selecting the voice control delay time setting, menu number 05 stops flashing, and enters the second level menu. At this time, you can press 【▲】、【▼】 Make a selection (OF - Close、 0.5/1.0/1.5/2.0/3.0秒) , To complete the selection, press 【 MENU 】 to confirm and save.

Number 6: BEP beep prompt function

The beep sound prompt function refers to a prompt sound function that confirms the operation status of the walkie talkie.

Press 【 MENU 】 under this menu to enter the prompt sound setting state. Menu number 06 stops flashing. At this time, you can press 【▲】、【▼】 Make a selection (OF off, ON on) , To complete the selection, press 【 MENU 】 to confirm and save.

No.7: SAV power-saving setting

To reduce battery consumption, this feature turns off the receiver circuit for a period of time and then turns it on again for a moment to detect the signal. Press under this menu 【MENU】 Enter the power-saving setting state, and the menu number 07 stops flashing.

At this time, you can press 【▲】、【▼】 Make a selection (OF off, ON on)) , To complete the selection, press 【 MENU 】 to confirm and save.

8th: TOT launch timeout:

The purpose of transmitting timeout is to limit the continuous transmission of the walkie talkie for a long time. When the continuous transmission time of the walkie talkie exceeds the set time, the walkie talkie is forcibly interrupted and a prompt sound is emitted.

Press under this menu 【MENU】 Enter the timeout setting state for launch, menu number 08 stops flashing, and enter the secondary menu. At this time, you can press 【▲】、【▼】 Make a selection (OF-close、 60/120/180 second) , To complete the selection, you need to press 【MENU】 Confirm and save.

9th: SCA scanning method:

There are three scanning methods to choose from on this machine:

After detecting the signal, do not take any action for 5 seconds and continue scanning

CO - Stop scanning if signal is detected, continue scanning if signal disappears

SE - Stop scanning directly if a signal is detected Press under this menu 【MENU】 Enter the scanning mode selection state, and the menu number 09 stops flashing. At this time, you can press 【▲】、【▼】 Choose (TO/CO/SE optional) , To complete the selection, you need to press 【MENU】 Confirm and save.

Number 10: LED Backlight Selection:

In order to allow you to use it normally at night or in dim places, this device is equipped with LED backlight.

Press 【 MENU 】 under this menu to enter the backlight setting state. Menu number 10 stops flashing. At this time, you can press 【▲】 and 【▼】 to select (OF normally off, AO automatic, ON normally on). After selecting, press 【 MENU 】 to confirm and save.

On the 11th, BCL was busy and banned from sending:

After enabling this function, it can prevent interference with other communicating radio stations. If the selected channel is being occupied by other radio stations, pressing the [PTT] key will prevent the walkie talkie from transmitting.

Press 【 MENU 】 under this menu to enter the busy and blocked sending setting state.

Menu number 11 stops flashing. At this time, you can press 【▲】 and 【▼】 to select (OF - off, ON - on). After selecting, you need to press 【 MENU 】 to confirm and save.

12th: NW channel bandwidth:

Press 【 MENU 】 under this menu to enter the channel bandwidth setting state. Menu number 12 stops flashing. At this time, you can press 【 ▲ 】 、 【 ▼ 】 Make a selection (W-broadband, N-narrowband) , To complete the selection, you need to press [MENU] Confirm and save.

13th: SFT frequency difference direction :

The local frequency deviation direction refers to:

1. If the transmission frequency is higher than the reception frequency, it is in the positive deviation direction (+); 2. If the transmission frequency is lower than the reception frequency, it is in the negative deviation direction (-); 3. Turn off the frequency offset direction (OF).

Press 【 MENU 】 under this menu to enter the frequency difference direction setting state. Menu number 13 stops flashing. At this time, you can press 【 ▲ 】 、 【 ▼ 】 Select (OF/None,+/Add, -/Subtract), and press 【 MENU 】 to confirm and save the selection.

(Note: Only when operating in frequency mode can the frequency offset direction be switched, and the frequency offset direction is combined with the frequency offset.)

Frequency usage**14th: OFF frequency difference frequency :**

Frequency difference refers to the difference between the transmission frequency and the reception frequency. The local frequency difference range is 0M-99.500M

Press 【 MENU 】 under this menu to enter the frequency difference setting state.

Menu number 14 stops flashing and enters

To access the second level menu, you can press 【 ▲ 】 、 【 ▼ 】 Set the frequency size, adjust the amplitude according to the step frequency, and press to complete the setting 【 MENU 】 Confirm and save.

15th: STP Step Frequency:

Step frequency refers to the amplitude by which the plus or minus keys increase/decrease the frequency in frequency mode.

This machine has 2.5K/5K/6.25K/10K/12.5K/20K/20K/25K/50K/100K/250K/10M options.

Press under this menu 【 MENU 】 Entering the step frequency selection state, menu number 15 stops flashing, Enter the secondary menu and press 【 ▲ 】 、 【 ▼ 】 To select the step frequency, press 【 MENU 】 to confirm and save the settings.

16th: REV Inverted Frequency:

When using the reverse frequency function, the transmission and reception frequencies of the walkie talkie will be interchanged, and the encoding and decoding of the CTCSS and DCS set will also be interchanged. Press the OK button [MENU] under this menu item to directly enter the reverse frequency

state, and exit the menu settings to return to standby display. If you need to turn off the reverse frequency, repeat this operation.

17th: RC receives analog sub tones:

Sometimes, you may only want to hear calls from specific individuals or organizations, in which case, by using “ CTCSS/DCS ” , Ignore unnecessary calls from others using the same frequency. The walkie talkie can only be unmuted when receiving signals with the same "CTCSS/DCS".

Press 【 MENU 】 under this menu to enter the receiving analog sub tone selection state. Menu number 17 stops flashing and enters the secondary menu. At this time, you can press 【 ▲ 】 and 【 ▼ 】 to select the receiving analog sub tone (OF - none, 67Hz-254.1Hz, 50 groups available). After setting, press 【 MENU 】 to confirm and save.

18th: TC launches simulated sub tones:

Similarly to receiving simulated sub tones, the group is also consistent.

Press 【 MENU 】 under this menu to enter the receiving analog sub tone selection state. Menu number 18 stops flashing and enters the secondary menu. At this time, you can press 【 ▲ 】 and 【 ▼ 】 to select the receiving analog sub tone (OF - none, 67Hz-254.1Hz, 50 groups available). After setting, press 【 MENU 】 to confirm and save.

19th: RD receives digital sub tones:

Press under this menu 【 MENU 】 Enter the receiving digital sub tone selection state, menu number 19 stops flashing, and enters the secondary menu. At this time, you can press 【 ▲ 】 【 ▼ 】 Choose to receive digital sub tones (OF-not have、 D023N-D754N, D023I-D754I every105Group selection) , Setting completed requires pressing 【 MENU 】 Confirm and save.

Note: When switching between digital sub tones after entering the secondary menu, long press 【 MENU 】 Switch between forward and reverse directions of digital sub tonesN/I.

20th: TD emits digital sub tones:

Press under this menu 【 MENU 】 Enter the selection state for emitting digital sub tones, menu number 20 stops flashing, and enters the secondary menu , Enter the selection state for emitting digital sub tones, menu number 20 stops flashing, and enters the secondary menu 【 ▲ 】 、 【 ▼ 】 Choose to emit digital sub tones (OF None, D023N-D754N, D023I-D754I each have 105 groups to choose from. To complete the settings, you need to press the button 【 MENU 】 Confirm and save. Note: When switching between digital sub tones after entering the secondary menu, long press 【 MENU 】 to switch between forward and reverse N/I of digital sub tones.

21st: APR frequency scrambling and compression expansion selection:

The scrambling function can achieve voice encryption, so that users without this function will not be able to receive your real voice, thus keeping your communication confidential. When two walkie talkies need to encrypt a call, select SC scrambling in this menu, and the scrambling level should be the same.

The compression expansion function can effectively compress the transmitted set signal before transmitting it to the other end, and then expand the signal at the receiving end, thereby maximizing the system signal-to-noise ratio, greatly reducing environmental background noise, and improving the sound quality at the receiving end.

Press 【 MENU 】 under this menu to enter the scrambling and expansion setting state. Menu number 21 stops flashing. At this time, you can press 【 ▲ 】 and 【 ▼ 】 to select (OF - off, SC - scrambling on, CO - expansion). After selecting, press 【 MENU 】 to confirm and save.

22nd: SCP Interference Group Selection:

There are a total of 8 sets of jamming groups on this machine.

When the scrambling function is enabled, it is effective. When two walkie talkies need to encrypt a call, the scrambling group needs to be consistent.

Press 【 MENU 】 under this menu to enter the scrambling group selection mode. Menu number 22 stops flashing. At this time, you can press 【 ▲ 】 and 【 ▼ 】 to select (1 to 8 are optional). After selecting, press 【 MENU 】 to confirm and save.

No. 23: DCP frequency hopping switch:

The frequency hopping function is to use algorithms to specially process sub tones into non-standard digital sub tones, which can achieve intercom encryption and prevent other models of machines from receiving your intercom.

When frequency hopping is enabled, if both devices need to talk to each other, this function needs to be turned on, and the frequency and sub tone settings set by both devices should be consistent.

Press 【 MENU 】 under this menu to enter the frequency hopping switch setting state. Menu number 23 stops flashing. At this time, you can press 【 ▲ 】 and 【 ▼ 】 to select (ON - on, OF - off). After selecting, you need to press 【 MENU 】 to confirm and save.

24th: LOC button lock setting:

The button lock of this machine has two modes: manual and automatic.

AN manual mode, long press 【MENU】 Lock and unlock.

AO automatic mode, if there is no operation within 10 seconds, the walkie talkie will automatically lock the button and unlock by long pressing 【MENU】。

Press under this menu 【MENU】 Enter the key lock setting state, and menu number 24 stops flashing. At this time, you can press 【▲】、【▼】 Make a selection (AN - Manual, AO - Automatic), to complete the selection, press the button 【MENU】 Confirm and save. Note: Long press in standby mode 【MENU】 Key lock and key unlock, in the locked state 【MENU】、【▲】、【▼】 The functions of switching frequency/entering menu are locked and the control is invalid.

25th: PON startup display:

There are two startup displays on this device, full screen display and voltage display, which are displayed during the startup process.

Press under this menu 【MENU】 Enter the startup display settings state, menu number 25 stops flashing, at this time you can press 【▲】、【▼】 Make a selection(AL full screen display, AD voltage display), once selected, press 【MENU】 to confirm and save.

26th: VIB vibration switch:

After the vibration is turned on, if there is no operation of the machine for more than 10 seconds, or if there is no signal reception for more than 10 seconds, the machine will start the vibration for the first reception after 10 seconds. If the signal is interrupted or the vibration exceeds 3 seconds during the vibration process, the vibration will stop. (Note: If you need to vibrate again after one vibration prompt, you need to wait for 10 seconds without any operation.) Press 【MENU】 under this menu to enter the vibration function setting state. Menu number 26 will stop flashing. At this time, you can press 【▲】、【▼】 Make a selection (ON ON, OF OFF) , select To complete the selection, press 【MENU】 to confirm and save.

Specification

Receiver

Receiver sensitivity	≤ 0.25uV (12dB SINAD)
Maximum audio power	1W@10%
Audio Distortion	< 10%
Signal to Noise Ratio	≥ 45dB
Neighbor channel selectivity (broadband/narrowband)	≥ 65dB/ ≥ 60 dB
Intermodulation (broadband/narrowband)	≥ 65dB/ ≥ 60 dB
Clutter resistance	≥ 65dB
Receiving Current	≤ 380mA

Overall specifications

Frequency range	UHF : 400-480MHz
No of channels	199 of them
Channel Spacing	25KHz (broadband), 12.5K (narrowband)
working voltage	3.7V (rechargeable lithium battery)
Frequency stability	± 2.5ppm
operation temperature	-20 ~ +60
Antenna impedance	50 Ω
Emission Current	≤ 1.5A
Modulation method (broadband/narrowband)	16K Φ F3E/11K Φ F3E
Maximum frequency offset (broadband/narrowband)	≤ 5KHz/ ≤ 2.5KHz
Stray power	≤ 7.5uW

Overall specifications

Adjacent Channel Power	$\leq -65 \text{ dB} / \leq -60 \text{ dB}$
Signal to noise ratio (broadband/narrowband)	$\geq -45 \text{ dB} / \geq -40 \text{ dB}$
QT/DQT frequency offset (broadband/narrowband)	$0.7 \pm 0.1 \text{ KHz} / 0.40 \pm 0.1 \text{ KHz}$
modulation sensitivity	8-12mV
External dimensions	88X48X25MM
weight	About 100g (including antenna, back clip, battery)

All specifications are subject to change without prior notice or liability

Warranty Card

Thank you for purchasing this product. We will make every effort to provide you with stable, clear, and efficient wireless communication services. In order for you to better enjoy our high-quality warranty service, please pay attention to the following information!

<u>Model</u>	<u>Serial number</u>
<u>Customer Name</u>	<u>Contact Number</u>
<u>customer address</u>	
<u>Purchasing date</u>	<u>Invoice number</u>
<u>Seller name (valid with seal)</u>	
<u>Seller's address</u>	
<u>Salesperson Manager</u>	<u>Contact Number</u>
<u> </u>	

remarks

1. This warranty card is only applicable to the walkie talkie warranty service of the models and numbers listed above;
2. This warranty card is an important proof for end users to enjoy warranty services. Please keep it properly;
3. This warranty card must be fully filled out and stamped with the sales seal by the seller before it can take effect.