

Instruction manual

USER'S MANUAL



Professional wireless walkie-talkie

PROFESSIONAL FM TRANSCEIVER

To users

Thank you very much for using our company's design and production UV3D Handheld wireless intercom.

They have a simple and professional appearance, sturdy and reliable structure, practical and thoughtful functions, mature and stable performance, which will definitely bring you an excellent communication experience. To ensure that you fully enjoy the convenience brought by this product, please read this manual carefully before use.

Functional features

- Rx:65-108(FM)、 136-174MHZ(TX/RX)、 220-260MHZ(RX)、 400-470MHZ(TX/RX)
- Friendly man-machine interface, with voice prompts in Chinese and English, easier operation
- Dual-segment, dual-display, dual-frequency point waiting, U/V segment relay, cross-segment sending and receiving, easy for users to network at any time
- High and low second-gear power switching to meet the power requirements of users at different call distances, and more
- Energy saving
- Up to 199 memory channels are available for programming frequency and various other data
- Channel number, frequency, channel frequency, channel name and other display methods
- CTCSS/DCS, DTMF signaling, reject redundant calls from other radio stations
- The tail sound is eliminated to avoid the impact noise from the speaker after the call is over
- VOX voice-activated transmission, no need to press the PTT key to make a normal call
- Emergency alarm, ANI identification and other functions through DTMF
- 7Gear step frequency selection (2.5K, 5.0K, 6.25K, 10.0K, 12.5K、 20.0K, 25.0K,)
- Equipped with transit and frequency reversal functions used by cluster networks to adapt to settings under various complex conditions demand
- Automatic power saving function to extend battery life
- SOS emergency alarm function
- Computer programming
- Wide/medium/narrowband (25kHz/20KHZ/12.5kHz) selection function
- Digital tuned FM radio (receiving 65-108MHz)
- Menu item keyboard number direct selection function, transmission and reception frequency can be entered manually
- Strong light flashlight lighting function
- Stopwatch function

Quick button function operation

1: Press and hold the V/M key to turn on the power switch and enter the initialization settings. Press the up and down keys to select :

VFO menu initialization, ALL machine initialization, select the required options, press [MENU] key to confirm.

2: Press and hold the V/M key to enter the single display and dual display modes, and then press and hold the V/M key to turn off.

3: Press and hold the MENU button to enter the stopwatch function: press the up button to start the timer, press the button to stop the timer When, press the key to clear again.

5: Tap the *key to enter the turn-on inverted frequency mode, and then tap the *key to exit the inverted frequency mode. Press and hold the *key to enter the frequency and channel scanning mode, and tap the *key to exit the scanning mode.

6: Press and hold the 0 key to enter the current battery voltage display.

7: Tap the # key to enter the high and low power switch. Press and hold the #key to enter the keyboard to lock and unlock.

Safety and Overview

Common sense of radio frequency radiation

Radio frequency refers to the electromagnetic frequency that can radiate into space. It is a technology widely used in the fields of communications, medical treatment, food processing, etc., and will produce certain radio frequency radiation during use.

Radio frequency radiation control and operation instructions

In order for the product to perform at its best and to ensure compliance with the radiation restriction requirements in the relevant occupation or controlled environment in the above standards, the transmission time shall not exceed 50% of the rated factor, and the following instructions must be followed :

- Radio frequency energy radiation is only generated when transmitting (speaking), and will not be generated when receiving (listening) and standby.
- Keep the distance between the terminal and the body at least 2.5 cm or more when launching.

catalogue

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Check the contents of the package

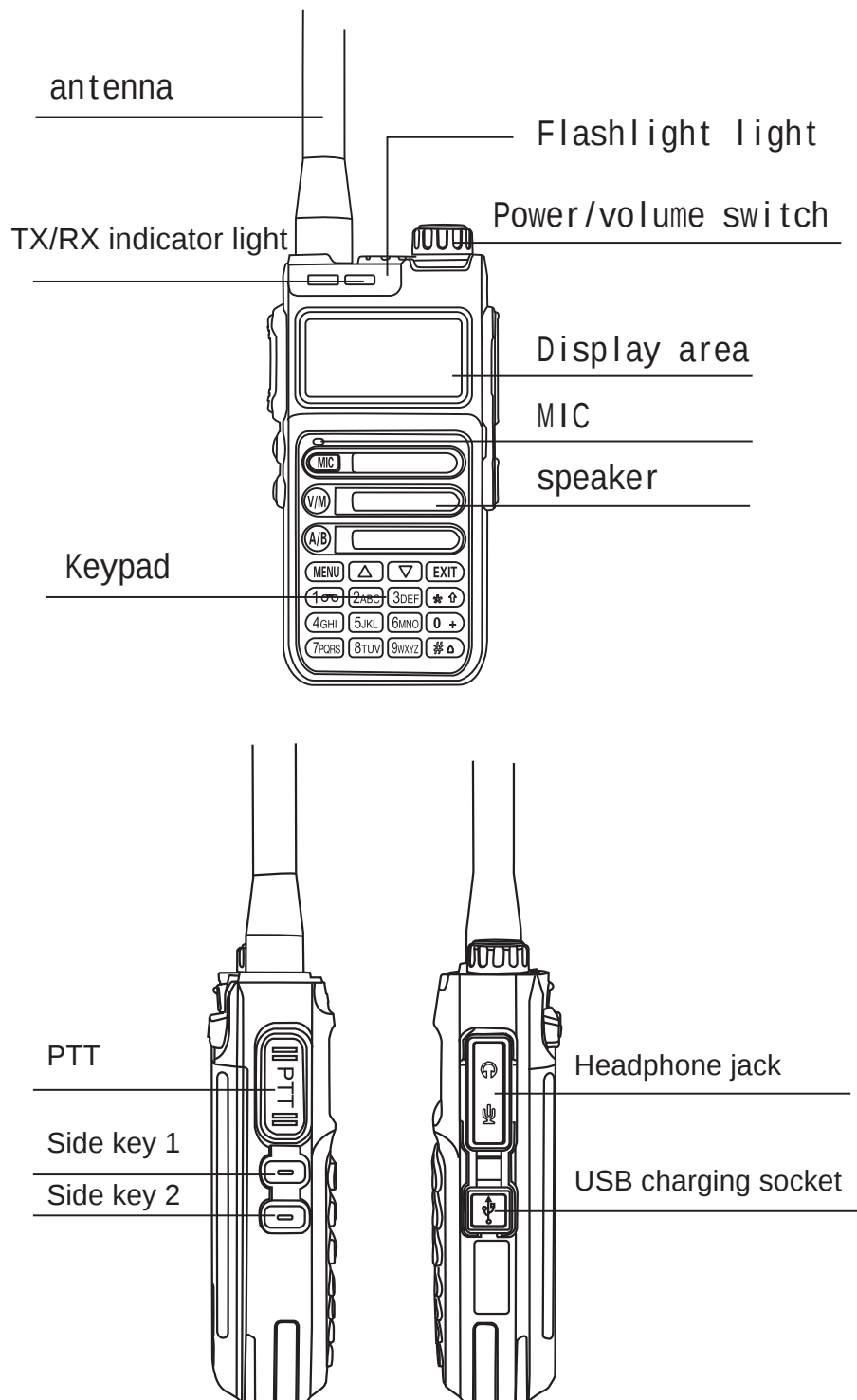
The packaging box contains the following items. If any items are lost or damaged, please contact the dealer of the product you purchased.

Item	quantity	Item	quantity
host	1	Charging stand	1
Battery	1	Power adapter	1
antenna	1	Back clip	1
Sling	1	operation instructions certificate of conformity	1

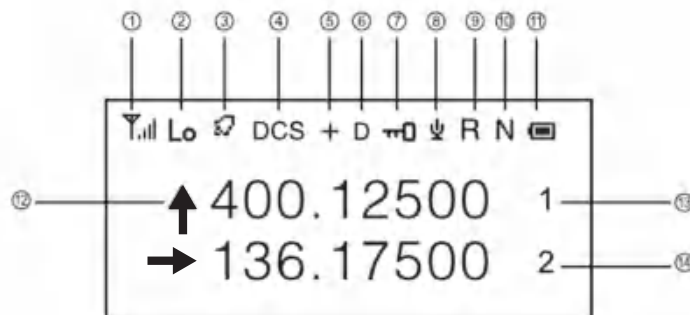
Remarks : The antenna varies with the frequency band.
Please refer to the color ring at the bottom of the antenna for the antenna frequency band Label content. If the frequency band is not indicated on the label, please refer to the specific frequency band on the host label.

Familiar with this machine

Component Introduction



Status indication



number	icon	Product status
1		Channel strength indication, the more the number of bars, the stronger the signal
2	H	The current transmission power is high power (the communication distance is the farthest, and the power consumption is the largest) ;
	L	The current transmission power is low power (the most power-saving, the distance is relatively close)
3		When the side tone switch is set to key side tone/key + identity code/identity code, the symbol appears
4	DCS	This symbol indicates that the current sub-tone is a digital sub-tone
	CT	This symbol indicates that the current sub-tone is an analog sub-tone
5	+	This symbol appears in frequency mode, indicating that the transmitting frequency is the receiving frequency plus a frequency difference frequency. The frequency difference frequency is set in item 24 of the menu.
	-	This symbol appears in frequency mode, indicating that the transmitting frequency is the receiving frequency minus a frequency difference frequency. The frequency difference frequency is set in item 24 of the menu.
6		The appearance of this symbol indicates that the dual-frequency waiting is turned on, and it is in a dual-waiting state, and it can be waited on the frequency points of the two frequency bands displayed on the screen at the same time.
7		The symbol appears when the keyboard is locked; press and hold the [*] key to unlock it, and the symbol disappears
8		Indicates that the voice-activated emission function is activated, and the emission is activated when the sound pressure level of the microphone reaches the set value.
9	R	Inverted reception and transmission frequencies in frequency mode/channel mode
10	N	This symbol appears when the channel is operating in narrowband mode
11		Display the remaining power of the current battery; the more items, the more battery power
12		A/B band pointer, indicating the current operating frequency or operating channel
13	number	In channel mode, the channel number of the A band
14	number	In channel mode, the channel number of the B band

LED indicator light

This machine is equipped with an LED indicator light, allowing you to easily grasp the current operating status of this machine.

Indicator status	Native status
The red light is on for a long time	Launching
The green light is long and bright	Receiving

Prepare before use

Install the antenna

1. Turn off the walkie-talkie and insert the threaded end of the antenna into the antenna port on the top of the host. 2. Tighten the antenna clockwise.



When removing the antenna, rotate it counterclockwise to remove the antenna.



Do not shake the machine with the top of the antenna in your hand, otherwise it will reduce the working performance and service life of the antenna of the machine.

Install the battery

1. Align the battery with the battery mount on the back of the walkie-talkie.

2. Press the battery hard into the walkie-talkie and slide the battery up until the lock plate locks in the correct position.



If you need to remove the battery, please turn off the walkie-talkie. Dial the battery lock to the unlocked position and press and hold, then slide the battery down out of the battery mount.

Install the belt clamp

1. Unscrew the two screws of the battery.

2. Align the two screw holes of the belt clamp with the screw holes above the battery, load and tighten the screws.

Safety and Overview

 If you need to remove the belt clamp, loosen and remove the screws from the belt clamp (it is recommended that you screw the screws to the battery so that you can install and use the belt clamp next time).

Install an external headset/microphone (optional and purchased separately)

1. Unscrew the two screws of the battery.
2. Align the two screw holes of the belt clamp with the screw holes above the battery, load and tighten the screws.

 When you don't need to use the earphones, unplug the earphone plug from the earphone hole and close the earphone cover. When not using the universal interface, please cover with a dust cover.

Walkie-talkie charging

 note :

Please use the charging equipment designated by our company to charge. When charging the whole machine, it is recommended to turn off the walkie-talkie first.

In accordance with the 2016 new regulations of the International Civil Aviation (IATA) "Technical Rules for the Safe Air Transport of Dangerous Goods"

Requirements, the state of charge of lithium-ion batteries (cells) transported by air shall not exceed their rated capacity

30% of the amount. Therefore, the first time the battery is used with the host, there may be a low-power alarm with a voice prompt " Please charge" .

Please charge the battery before using it.

The battery lights up with a red light when it is placed in the charger to charge. This is the pre-charging process carried out by the charger to protect the battery when the battery is too low. The battery lights up with a green light after it is fully charged.

When using the terminal for the first time, a low-power alarm may occur. Please charge the battery before using the terminal. The steps are as follows :

1. Plug in the power cord of the charging stand.
2. Load the battery into the charging stand.
3. Observe the LED indicator of the charging stand to understand the current charging status, as shown in the table below.

Charging stand indicator light display	Current charging status
Red light flashes	Battery voltage is too low
Red light on	Charging
Green light is on	Charging is complete

Check the battery

This function allows you to understand the current voltage and remaining power of the battery. Press and hold the [0] key to display the current voltage.

The current battery level is displayed at the top right of the screen, and the battery level icon is as follows :

Battery icon	Battery level
	high
	centre
	low
	Insufficient

Basic operation

Knob, switch, button	Operation instructions
Power/ volume switch	Power on/off: Rotate the power/volume switch knob clockwise to turn on the walkie talkie and adjust the volume to maximum. Rotate the power/volume switch knob counterclockwise to adjust the volume to the minimum until the walkie talkie is turned off.
Select channel	Channel is the channel for signal transmission. After turning on, press the [V/M] key to switch to channel mode, press the [▲] or [▼] key to select a channel, and the channel number will be displayed on the right side of the screen. ● If the channel broadcasting function is enabled, the walkie talkie will broadcast the current channel number.
PTT key call	● Initiate call in channel mode: After selecting the channel, press and hold the [PTT] key to initiate a call to the current channel. Speak in a normal tone into the microphone. When making a call, the red LED light stays on. ● Manually input frequency to initiate a call: Press the [V/M] key to switch to frequency mode, enter the allowed frequency range, hold down the [PTT] key and initiate a call to the current channel. Speak in a normal tone into the microphone. When making a call, the red LED light stays on. Receive call: After releasing the [PTT] key, you can answer without any operation. When receiving a call, the green LED light stays on. To ensure optimal reception volume, please maintain a distance of 2.5 to 5 centimeters between the microphone and the mouth during transmission.
SK1 (side key 1)	Flashlight function: Short press the [SK1] key to turn on the flashlight function and keep the flashlight on; Short press the [SK1] key again to turn off the flashlight function.
	SOS emergency alarm function: Long press the [SK1] key to turn on the alarm function, and the red indicator light will flash. Long press the [SK1] key again to clear the alarm.
SK2 (side key 2)	● Radio switch: Short press the [SK2] key to turn on the radio function, and short press the [SK2] key again to turn off the radio. The radio frequency can be automatically searched for through ● keyboard input or long pressing the * key.
	Monitoring function: Long press the [SK2] key to turn on the monitoring function, release the [SK2] key to cancel the monitoring.
V/M key	Frequency mode or channel mode switching. Frequency mode: Manually input frequency. Channel mode: Press the [▲] or [▼] keys to select the channel.
A/B keys	A/B frequency band switching selection. Press the PTT key to transmit in the frequency band pointed to by the pointer.
Keyboard lock and unlock	Manual locking: Long press the # key to lock the walkie talkie. Automatic locking: After enabling the automatic keyboard lock, it will automatically lock after a delay of 10 seconds when there is no operation or key press. Unlock: Long press the # key to unlock the keyboard.

Function Description

You can enter "Menu Settings" through the menu button on the terminal to set some commonly used functions. The specific instructions and operating methods are as follows.

Menu Number	First level menu displays characters		Secondary menu displays characters		Secondary menu setting instructions
	English	Chinece	English	Chinece	
1	Squelch	Squelch level	0,...,9		Quiet noise level, the lower the level, the easier it is to interfere, and the higher the level, the worse the sensitivity. The default value is 31
2	Step	Stepped-Frequency	2.5KHz		In frequency mode, press the ▲/▼ key to change the step value of the frequency, with a range of 2.5~25KHz
			5.0KHz		
			6.25KHz		
			10.00KHz		
			12.50KHz		
			20.0KHz		
			25.0KHz		
3	Tx Power	Transmissi on power	High	high power	High power transmission
			Low	low-power	Low power transmission
4	Power save	Power saving mode	OFF	close	Turn off power-saving mode
			ON	open	Enable power-saving mode
5	Vox Level	Voice control level	OFF	close	Turn off voice activated emission
			1,2,...10	1,2,...10	The level intensity for activating voice control ranges from 1 to 10
6	Bandwidth	bandwidth	Wide	broadband	Broadband work
			MIDIAN	mesozone	Middle Belt Work
			Narrow	narrowband	Narrowband work
7	Backlight	Backlight	ON	Light	lights on
			OFF	close	backlight off
8	Dual Standby	Dual frequency Marquis	OFF	close	Double guarding closed
			ON	open	Double guarding activated
9	Tx over time	Launch time limit	OFF	close	Press and hold the PTT key to continuously emit
			1...7		Value range 1... 7 minutes time
10	Rx DCS	Receive mute sound	OFF	close	No mute sound
			67HZ,...,D743N		Standard sequence of mute sounds
11	Tx DCS	Emit mute sound	OFF	close	No mute sound
			67HZ,...,D743N		Standard sequence of mute sounds
12	DTMFST	Side tone switch	OFF	close	Side tone off
			ON	open	Side tone activated
13	R-TONE	TONE sound	1000hz,1200hz,1450hz,1750hz,		Relay station activates audio
14	Scan Mode	Scanning method	TO	time	Time based scanning
			CO	carrier wave	Carrier scanning method
			SE	search for	Search method scanning

basic operation

15	PTT-ID		OFF	close	Press PTT without sending ID code
			ON	open	Press PTT to send the ID code (the ID code is set by the frequency writing software)
16	MDF-A	Display mode of segment A	Frequency	channel frequency	In channel mode, segment A displays the frequency of the channel
			Name	Channel name	In channel mode, segment A displays the channel name (the specific name is set in the frequency writing software)
			CHANNEL	CHANNEL	In channel mode, segment A displays the channel number for that channel
17	MDF-B	Display mode of segment B	Frequency	channel frequency	In channel mode, segment B displays the frequency of the channel
			Name	Channel name	In channel mode, segment B displays the channel name (the specific name is set in the frequency writing software)
			CHANNEL	CHANNEL	In channel mode, segment B displays the channel number for that channel
18	Busy Lockout	Prohibited from posting when busy	OFF	close	Channel occupied, allowing transmission
			ON	open	Channel occupied, transmission prohibited
19	Key Auto Lock	auto keypad lock	OFF	close	Disable keyboard auto lock
			ON	open	Turn on the keyboard auto lock function
20	Direction	Frequency difference direction	None	not have	In frequency mode, there is no frequency difference between the transmission frequency and the reception frequency
			Plus +	forward direction	In frequency mode, the transmission frequency is equal to the reception frequency plus the frequency difference frequency
			Minus -	reverse	In frequency mode, the transmission frequency is equal to the reception frequency minus the frequency difference frequency
21	Offset	Frequency difference frequency	00.000,...,10mhz		In frequency mode, the difference in frequency between transmission and reception
22	ROGER	Launch End Sound	ON	open	Open call end prompt sound
			OFF	close	Turn off the call end prompt sound
23	SCRM	Interference function	ON	open	Enable the scrambling function
			OFF	close	Turn off the scrambling function
24	COMP	Voice voltage control	ON	open	Enable voice voltage control
			OFF	close	Turn off voice voltage control
25	BEEP	Key Tone	ON	open	Turn on button sound
			OFF	close	Turn off the button sound
26	STE	Voiceless coda	OFF	close	After releasing PTT, the machine does not send a shutdown code. Usually, when passing through the relay, noise is generated to confirm whether the local signal has been relayed
			ON	open	After releasing the PTT button, the machine emits a shutdown code to suppress the momentary noise from the listener.
27	SPEDCS	Special signaling (frequency hopping)	OFF	close	The DCS mute code set is not encrypted
			ON	open	The DCS mute code set has encryption function
28	OPNSET	Power on display	Preset Logo	Preset icon	
			Voltage	battery voltage	
			OFF	Turn off no display	
29	TONCUE	Voice report number	CHINA	Chinese	Chinese pronunciation
			English	English	English pronunciation
			OFF	close	Turn off voice

30	STORE	channel storage	001,...,199	When storing channels, it is used to indicate the channel number to be stored. Press the up and down keys to select the channel number to be stored.
31	DELMEM	channel deletion	001,...,199	Delete the channel parameters of the specified channel, press the up and down keys to select the channel number to be deleted.

Function Description

The functions supported by the walkie talkie are shown in the table below.

name	Function Description
*Quiet level adjustment	The adjustment of noise level is to adjust the signal strength required for receiving signals. The mute level (0 open~9 highest) is determined by the local environment and is generally set to 3.
*Asia Audio/Asia Audio Digital	Used to avoid listening to unrelated calls on the same frequency. Only when the transmitted sub audio/sub audio digital matches the received sub audio/sub audio digital, can the walkie talkie listen to voice through the speaker.
*Timeout ban on sending TOT	The timeout ban can limit the single transmission time (default is 60 seconds) to prevent communication parties from occupying channel resources for too long and to avoid terminal damage due to overheating. After the duration of holding down the PTT key expires, the terminal will automatically terminate transmission and emit a warning sound. If you need to make another call, please transmit after the preset time.
*Power saving	When the walkie talkie reaches the power-saving time without receiving or transmitting, without buttons or knobs, it will automatically enter power-saving mode.
Low power alarm	Used for timely charging through sound reminders when the battery is low. When the battery level is too low, emission will be prohibited.
emergency alarm	An emergency alert is when you encounter an emergency situation and can seek help from your companions or control center.
Scan SCAN	After enabling scanning, the terminal will scan based on the scanning list. When there is activity on a certain channel, it will stay on that channel to listen and understand the current activity status of relevant team members.
Busy channel locking BCL	Channel busy locking can prevent interference from other terminals on the same channel during transmission. When other terminals occupy the current channel, press and hold the [PTT] key, and the terminal will emit a "beep" sound, indicating that it cannot transmit. If the current channel is idle, hold down The PTT key can be used for emission. Understand the current activity status of relevant team members.
POWER LEVEL	Power level refers to the transmission power level of the walkie talkie, which can be set to high or low power. High power can improve the signal strength of the terminal's current voice transmission and enable communication with terminals that are farther away. Low power can save electricity.  Power switching: Press the # key lightly to switch to high or low power.

Function Description

Monitor MONI	Listening is a listening method used to receive more or weaker signals, which helps identify and listen to faint sounds in the speaker. Press the [MONI] key to activate the monitoring function;  Release the [MONI] key to turn off the monitoring function.
Channel broadcasting	Used to indicate the sequence where the current channel is located.
*Voice controlled VOX emission	*Voice controlled VOX transmission. When the microphone detects speech that meets the transmission conditions, the terminal will automatically transmit the speech. You don't need to hold down the PTT key to speak directly. Voice controlled gain is used to control the sensitivity of microphone voice controlled emission, set by the gain level.

Launch DTMF

Press and hold the PTT key, then press the corresponding number key to emit the corresponding DTMF digits.

After enabling this function, if the volume level of the user's speech reaches the selected level of the walkie talkie, the walkie talkie can also start the transmission operation through voice without pressing the PTT button. In some workplaces, users may not be able to make calls by pressing the 【PTT】 key with their hands, and this feature can be activated. Operation method:

- 1) In standby mode, press the [MENU] key and receive a voice prompt for "Menu Settings" to enter the function menu settings;
- 2) Press the 【▲】 or 【▼】 keys to select 5 menu numbers forward or backward; Or directly enter the number 005 to enter the 005 menu number;
- 3) Press the 【MENU】 key to receive a voice prompt for "voice controlled emission", press 【▲】 or 【▼】 key, select 1-9 (the larger the value, the higher the sensitivity; if selecting 3)
- 4) Press the [MENU] key, the voice prompts "OK", save and return to the previous menu.
- 5) Repeat the above operation, select OFF, and turn off the voice controlled emission function.

 After activating the voice control transmission function, speak into the microphone and the voice will be sent out; Stop talking, and the launch will also stop. You can choose the VOX sensitivity level based on the quietness of the usage environment. If the environmental noise is too high, activate it. After the VOX function, there will be a long emission situation.

Keyboard lock

The keyboard lock function disables numeric keys to prevent you from mistakenly activating a certain function. This machine can be set to automatic keyboard lock function, and the operation is as follows:

- 1) In standby mode, press 【MENU】 Key, voice prompt "menu settings Set ", enter the function menu settings;
 - 2) press 【▲】 perhaps 【▼】 Press the key to select the 019 menu number forward or backward; Or directly enter the number 019 to enter the 019 menu number;
 - 3) press 【MENU】 Key, press 【▲】 perhaps 【▼】 key , select ON ; 4) press 【MENU】 Key, voice prompt "OK", save and return to the upper menu. The automatic keyboard lock function is activated.
 - 5) Repeat the above operation, select OFF to turn off the automatic keyboard lock function, and select manual keyboard lock. The operation is as follows:
 - ① In standby mode, long press the # key for more than 2 seconds to activate the keyboard lock function (voice prompt "keyboard lock");
 - ② Press and hold the # key repeatedly for more than 2 seconds to turn off the keyboard lock function (voice prompt "keyboard unlock").
- After the automatic keyboard lock function is enabled, if there is no keyboard operation for 10 seconds in the unlocked state, the numeric keypad will be automatically locked.

Dual frequency standby

When in dual standby mode, the walkie talkie can receive the frequency set by channel A or B. The operation is as follows:

1) In standby mode, press the 【MENU】 key and receive a voice prompt for "Menu Settings" to enter the function menu settings;

2) press 【▲】 perhaps 【▼】 Press the key to select the 008 menu number forward or backward;

Or directly enter the number 008 to enter the menu number;

3)press 【MENU】 key,Voice prompt "Dual band standby", press 【▲】 perhaps 【▼】 key , select ON

4)press 【MENU】 key,Voice prompt "OK", save and return to the upper menu. The dual frequency standby function is enabled.

 Repeat the above operation and select OFF to turn off the dual frequency standby function.

Due to the dual standby and dual standby mode being in the primary and secondary channel scanning state, even if the local power-saving function is enabled in the dual segment dual standby mode, its power-saving function is still ineffective,

and the standby time of the walkie talkie will be shortened.

Channel deletion

 You may want to delete a storage channel due to incorrect settings or changing other settings. The operation is as follows:

- 1) In standby mode , press 【MENU】 Key, voice prompt "Menu Settings", enter the function menu settings;
- 2) press 【▲】 perhaps 【▼】 Press the key to select the 031 menu number forward or backward; Or directly enter the number 031 to enter the menu number;
- 3) press 【MENU】 Key, voice prompt "channel deletion";
- 4) press 【▲】 perhaps 【▼】 Press the key to select the channel to be deleted forward or backward.
- 5) Press the [MENU] key, the voice prompts "OK", delete the existing channel parameters, and press EXIT to exit the menu mode.

channel storage

The parameters required for a complete channel include receiving frequency, transmitting frequency, receiving sub audio, transmitting sub audio, transmitting power, channel bandwidth PTT-ID、 Busy locking, signaling codes, scanning and adding, channel names, etc. Except for PTT-ID code, scan addition, and channel name that need to be edited through frequency writing software, all other parameters can be set in frequency mode, and then stored in the designated channel number through menu 030 storage channel

Example: The required channel storage parameters are as follows, stored in the channel number 001.

- ① Receiving frequency 136.325MHz
- ② Transmission frequency 136.325 MHz
- ③ Receive mute digit D031N
- ④ Transmitting mute digit D031N
- ⑤ High transmission power
- ⑥ Channel bandwidth broadband

Write the channel name in the frequency writing software as needed

Operation steps:

1. Short press the [V/M] key to switch to VFO mode, and the screen will display 136.32500.a
2. In frequency mode, press the [A/B] key to point the frequency pointer symbol to A (upstream frequency point) 136.32500.

3. Press the number keys 136.325 in sequence to adjust the frequency to 136.32500MHz, and the screen will display 136.32500.
4. Power setting: Press the MENU button, press 003 to directly enter the menu and select the power (HIGH/LOW) as HIGH high,
5. Bandwidth setting: Press the MENU key, press 006 to directly enter the menu and select the channel bandwidth (NARR/WIDE/MIDIAN) as WIDE broadband,
6. Receive digital sub tone settings: Press the MENU key, press 010 to directly enter the menu, and select the sub tone value D031N with the up and down keys,
7. Setting for emitting digital sub tones: Press the MENU key, press 011 to directly enter the menu, and select the sub tone value D031N with the up and down keys,
8. PTT-ID key emission setting: Press the MENU key, press 015 to directly enter the menu, and select ON/OFF to turn on/off through the up and down keys.

Note: The PTT-ID code should be set in the frequency writing software.)

9. Press the MENU key, press 030 to directly enter the menu, press the MENU key, and select the desired storage channel through the up and down keys. If the channel originally had a frequency, the number of channels on the right will jump. If the channel has no frequency, the number of channels on the right does not jump. After selecting the channel, press the MENU key to confirm and save the channel frequency.

Troubleshooting Guide

Problem	Cause analysis	Solution
Unable Power on	The battery may not have been installed correctly	Remove the battery and reinstall it.
	The battery may have been depleted	Charge or replace the battery.
	The battery contacts are contaminated Or damaged, resulting in poor contact	Clean the battery contacts. If it still cannot be solved Resolve the issue, please contact the dealer or me Designated maintenance point for maintenance by the company
When receiving signals Small voice Intermittent or silent	Battery voltage too low	Charge or replace the battery
	Low volume	Turn up the volume
	Loose or improperly installed antenna	Reinstall the antenna after shutting down
Unable Within the group Other members dialogue	Speaker blockage or damage	Clean externally simply first. If the problem persists, contact the dealer or our designated repair point for maintenance
	The frequency or signaling settings used by other members within the group are different	Set the same frequency and signaling as other members of the group
	Too far away from other members of the group	Try to get as close to other members as possible
Sustain launch	The PTT key is stuck and has been stuck Shooting state	Exclude the stuck PTT key
	Turn on voice control function or voice control spirit Sensitivity too high	Adjust the sensitivity appropriately or turn off the voice control function
Unclear speech	Poor communication signal quality	Ensure that the calling member is within the effective communication range
Appearing on the channel Other (Non) Voice team members	Interference from users on the same frequency	Change to a new frequency, or adjust the squelch level
	Signal not set	Set up signaling for all walkie-talkies in the group to prevent interference with the same frequency
High noise level	Communication distance with other members Too far away	Get close to other members
	The location is not good, such as being affected by height Buildings obstructing or located underground Room, etc	After moving to an open and flat ground, turn on and try again.
	Affected by external environment or electromagnetic interference	Avoid equipment that may cause interference

If the above methods still fail to solve your problem, or if you encounter some other malfunctions, please contact Local distributors to obtain more technical support.

Maintenance and cleaning

In order to ensure the good performance of this product and extend its service life, please be familiar with The following content is provided for better daily maintenance and cleaning of this product.

maintenance Do not puncture or scratch this product with hard objects. Do not store this product in environments containing corrosive electronic circuit materials. Do not use handheld antennas or headphone cords while carrying or using this product.

When not using attachments, please cover the attachment interface cover.

Clean

Please regularly use a clean and dry lint free cloth or brush to wipe off the surface and charging electrode of the walkie talkie Dust adhered to the sheet; Wipe the dust and dirt on the walkie talkie with a lint free cloth to prevent poor contact;

·After long-term use, the buttons, control knobs, and casing of the walkie talkie are prone to getting dirty Neutral detergent (do not use highly corrosive chemicals) and damp cloth can be used Perform cleaning. After cleaning, make sure the walkie talkie is thoroughly dry, otherwise do not use it.

When the walkie talkie is not in use, please cover the accessory socket;

Before cleaning, please turn off the walkie talkie and remove the battery.

Option

Please use the accessories specified by our company.

If unauthorized accessories are used without permission, all consequences resulting from this shall be borne by the user The household is responsible on their own. Please consult your local dealer for the selection of accessories for walkie talkies.

List of toxic and harmful substances or elements

Parts	hazardous substance					
name	Pb	Hg	Cd	Cr(Vi)	PBB	PBDE
Electronic components	✗	○	○	○	○	○
Mechanical parts	○	○	○	○	○	○
○ The content of the toxic and harmful substance in all homogeneous materials of the component is within the limit requirements specified in SJ/T11363-2006 standard.						
✗ Indicates that the content of the toxic and harmful substance in at least one homogeneous material of the component exceeds the limit requirements specified in SJ/T11363-2006 standard						

Specification

Overall		
Frequency range		UHF:400-470MHZ VHF136-174MHZ
Channel capacity		199
Channel Spacing		25/12.5kHz/20K
INPUT VOLTAGE		7.4 VDC±10%
Battery (standard configuration)		High capacity battery
Battery life 5-5-90, high-power transmission)		About 14 Hours
Electric current	Standby	≤ 45mA
	receive	≤ 350 mA
	Launch	≤ 1.8 A @High power, 650 mA @ low power
Frequency Stability		±2.5ppm
operation temperature		-30 to +60
antenna impedance		50Ω
size (Including battery, but not antenna)		121*61*33mm
TRANSMITTER		
Transmission output power		High power/low power
Modulation Type		16K0F3E@25KHz, 11K0F3E@12.5KHz
Spurious emission		-36dBm < 1GHz , -30dBm > 1GHz
Frequency modulation signal-to-noise ratio		45dB@25KHz, 40dB @12.5KHz
Audio Distortion		≤ 5%
Modulation restrictions		±5.0 KHz@25 KHz , ±2.5 KHz@12.5 KHz
Adjacent Channel Power		70dB @25KHz , 60dB @12.5KHz
audio response(300-3000Hz)		+1~3dB
Receiver		
receiver sensitivity		0.25μV(12dBSINAD)
adjacent channel selectivity		≥ 60dB@25KHz , ≥ 55dB@12.5KHz
Intermodulation Rejection		≥ 60dB@25KHz , ≥ 55dB@12.5KHz
conducted spurious emission		≤ -57dB@25KHz, ≤ -57dB@12.5KHz
Frequency modulation signal-to-noise ratio		≥ 45dB@25KHz, ≥ 40dB@12.5KHz
Audio output		1W@16ohms
Audio distortion degree		≤ 5%
Audio response(300-3000Hz)		+1 ~ -3dB

All specifications are subject to change without prior notice or liability

Disclaimers

This manual strives for the accuracy and completeness of its content during the compilation process, but may not be applicable to any potential issues. The company shall not be held responsible for any errors or omissions that may occur. Due to the continuous advancement of technology, our company reserves the right to change product design and specifications without notice. Without prior written authorization from our company, this manual may not be copied in any form, revised, translated, and distributed. The third-party products and content mentioned in this manual belong to the third party. We are responsible for its accuracy, effectiveness, timeliness, legality, or completeness. No guarantees are provided.

Warranty card

Remarks

- 1.This warranty card is only applicable to the warranty service of the walkie-talkie with the model and serial number listed above.
- 2.This warranty card is an important voucher for end users to enjoy the warranty service, please keep it safe.
- 3.This warranty card must be completed by the seller and stamped with the sales seal before it can take effect.

Customer name

Gender: Male/female

Customer address and zip code

Contact number

Product model

Product signal

Purchase date

Invoice number

Sales store name

Sales store seal

Store address and zip code

Store contact number

Store manager

Dear walkie-talkie user:

Hello!

Thank you very much for purchasing this walkie-talkie, we will do our best to provide you with stable, clear and efficient Wireless communication service. In order for you to better enjoy the high-quality warranty service we provide you, please pay attention to the following information!

The warranty period of this product is calculated from the date of purchase, and the use of this product under normal conditions during the warranty period occurs. malfunction. According to the contents of this warranty clause (the host is guaranteed for 12 months, and the accessories (batteries, chargers) are 6 Monthly free warranty service). Present the original warranty card and the purchase invoice, and enjoy it at the designated authorized repair station Warranty service;

Paid maintenance services will be implemented in the following situations during the warranty period

- (1) This warranty card and purchase invoice cannot be presented;
- (2) This card has traces of alteration or does not match the product;
- (3) Defects or damage caused by the use of this product under abnormal or unconventional circumstances
- (4) Defects or damages caused by incorrect use, accidents, water ingress, or dredging;
- (5) Defects and damage caused by incorrect use, operation, repair, installation, modification or adjustment, etc.
- (6) Defects or damage caused by unauthorized repairs, disassembly, etc.;
- (7) Defects or damages caused by irresistible factors;
- (8) Wear and tear under normal use;

When you need to repair, please mail the walkie-talkie together with this warranty card and the purchase invoice or send it to the authorized repair station designated by the company; the transportation fee shall be borne by the user.

Maintenance record

Repair date		
Completion date		
Fault description		
Maintenance Record		
Repairman Work number		
Signature		

Please keep this warranty card safe, it will not be replaced if it is lost