



Handheld Shortwave Radio

USER'S MANUAL



Disclaimer

Although we have strived to ensure the accuracy and completeness of this manual, omissions or errors may still occur, for which our company assumes no liability. As technology and products continue to evolve, our company reserves the right to modify product designs and specifications at any time without prior notice. Reproduction, modification, translation, or distribution of this manual in any form is prohibited without our company's prior written authorization.

Any third-party product information referenced in this manual remains the property of the respective third parties. Our company makes no warranties regarding the accuracy, validity, or completeness of such content.

Important Information



Unauthorized changes or modifications to this device without explicit permission from our company may void your authorization to operate it. This radio is preset at the factory to transmit compliant modulated signals within designated frequency ranges. Any adjustment of frequencies or parameters beyond this authorized scope is illegal. Modifications to the device's internal settings must be performed by qualified technical personnel.

Before using this radio, please carefully read the following operational instructions regarding RF exposure and product safety to ensure safe usage.

FCC Notice

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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

RF Radiation Information

This product is intended solely for professional use where RF energy radiation requirements can be met. Users must be fully aware of RF radiation hazards and take appropriate measures to comply with RF radiation limits.

RF Radiation Basics

RF (Radio Frequency) refers to electromagnetic frequencies that can radiate into space. It is a technology widely used in fields such as communications, medical, and food processing, and it generates a certain amount of RF radiation during use.

RF Radiation Safety

To ensure the health and well-being of users, experts from the fields of science, engineering, medicine, health, and industry, along with relevant organizations, have jointly developed RF radiation standards and guidelines, as follows:

Title 47, Part 2, Subpart J of the Code of Federal Regulations (CFR) by the Federal Communications Commission (FCC) of the United States.

ANSI (American National Standards Institute) / IEEE (Institute of Electrical and Electronics Engineers) Standard C95.1-1992.IEEE Standard C95.1-1999.

Standards issued in 1998 by the International Commission on Non-Ionizing Radiation Protection (ICNIRP).

FCC Regulatory Requirements

In accordance with the regulations of the Federal Communications Commission (FCC) of the United States, this product must comply with FCC RF radiation limits to be sold in the U.S. market. Manufacturers are required to inform users of important safety precautions by labeling the product, thus enhancing user awareness of radiation protection.

RF Radiation Control and Operating Instructions

To ensure optimal performance and compliance with the radiation limits for occupational or controlled environments as specified in the standards, the transmission time should not exceed a duty cycle of 50% (i.e., a maximum of 50% transmission time). Adhere to the following instructions:RF energy radiation is only generated during transmission (talking), not during receiving (listening) or standby mode.Maintain a minimum distance of 2.5 centimeters between the device and the body during transmission.

Prohibited Usage

The use of this product is strictly prohibited in the following locations or situations to avoid personal injury or property damage:

- Do not use the product or charge the battery in areas with fuels, chemicals, explosive gases, or other flammable/combustible materials. If the product carries relevant explosion-proof certification and remains intact, it may be used in such environments, but disassembly or installation is strictly prohibited.
- Do not use the product within or near blasting zones.
- Do not use the product near medical or electronic equipment sensitive to radio frequency signals.
- Do not hold the product for communication while driving a vehicle.
- Do not use the product in any location where wireless communication devices are explicitly prohibited.
- Turn off the radio before boarding an aircraft; any use of the radio must comply with airline regulations or instructions from the flight crew.

Usage Guidelines

To ensure safe operation and prevent personal injury or property damage, adhere to the following when using this product:

- Do not use uncertified or damaged accessories.
- Keep the radio upright during transmission, with the microphone approximately 3–4 cm from the mouth and the antenna at least 2.5 cm away from the body.
- Avoid prolonged listening at high volume levels.
- Do not place the product on or within the deployment area of an airbag.
- Keep the product and accessories out of reach of children and pets.
- Ensure the product is used within the permitted operating temperature range.
- If the device overheats due to prolonged transmission, suspend use and allow it to cool down.
- Apply moderate pressure when pressing keys; avoid using excessive force.
- Do not disassemble, modify, or repair the product or accessories without authorization.
- When carrying the radio, ensure the device and antenna maintain a distance of at least 2.5 cm from the body during transmission.

Battery Safety Precautions Charger

Charging is strictly prohibited in the following situations to prevent personal injury or property damage:

1. Do not charge or replace batteries in areas with fuels, chemicals, explosive gases, or other flammable/combustible materials.
2. Do not charge the battery or terminal if damp; ensure it is thoroughly dried with a clean cloth before charging.
3. Do not charge the battery if it shows signs of leakage, deformation, overheating, or other abnormalities.
4. Do not use uncertified chargers for charging.
5. Do not charge in humid environments.
6. Do not overcharge the battery, as this may shorten its lifespan.

Maintenance Guidelines

To ensure stable battery performance and extend its service life, follow these precautions:

1. If dust accumulates on the battery contacts, clean them promptly with a clean, dry cloth to avoid charging issues.
2. Charge the battery within an ambient temperature range of 5° C to 40° C. Extremely high or low temperatures may shorten battery life or cause leakage.
3. When charging the terminal with the battery installed, it is recommended to turn off the device for optimal charging.
4. Do not unplug the power or remove the battery during charging to avoid interrupting the process.
5. Do not expose the battery to fire.
6. Do not leave the battery in direct sunlight or near other heat sources for extended periods.
7. Do not crush, puncture, or disassemble the battery casing.

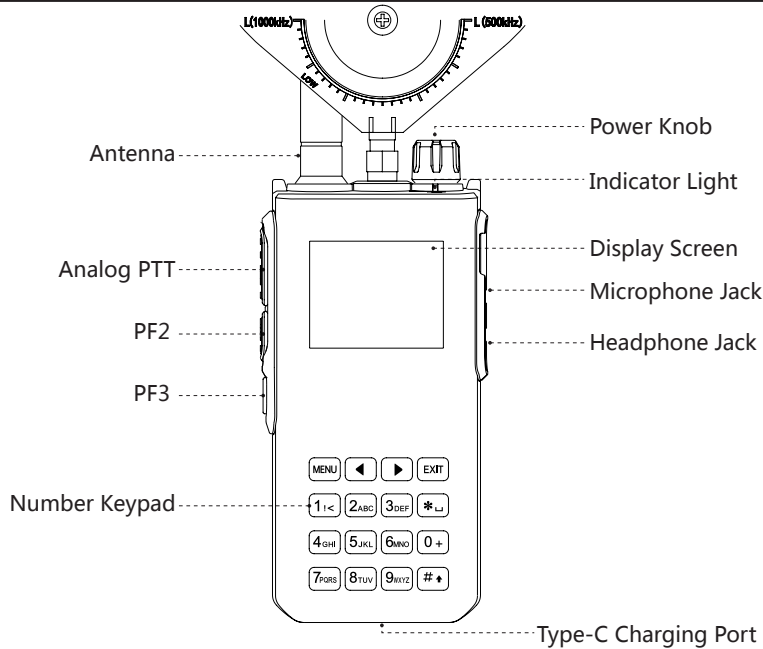
Transportation Guidelines

1. Do not transport damaged batteries.
2. Ensure there is no risk of short circuits in the packaging. If multiple batteries are included, each must be individually packaged.
3. If transporting equipment with installed batteries, ensure the device is powered off and take measures to prevent accidental activation.
4. Shipping documents must clearly list batteries, and external packaging must bear battery transportation labels. Consult the carrier in advance for local regulations and transportation requirements.

Recycling and Disposal

All company products (including radios and batteries) have a limited service life. Do not dispose of end-of-life products as household waste. Recycle them in compliance with local regulations.

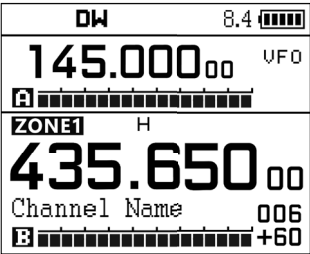
Getting to Know the Device



Shortcut Keys combination

Long press number 1	SCAN	Enter scanning function
Long press number 2	Memory Channel	Store frequency into channel
Long press number 3	Frequency step	Set frequency step
Long press number 4	Power Select	Select High, Middle, Low powel
Long press number 5	Squelch	Adjust squelch levels
Long press number 6	Dual Standby	Turn on/off dual standby
Long press number 7	CTCSS	Set CTCSS sub tone
Long press number 8	Shift Direction	Set repeater shift direction
Long press number 9	Offset	Set repeater offset frequency
Long press number 0	FM Radio	Turn on FM Radio broadcast
Long press number #	Keypad lock	Lock/Unlock keypad
short press number #	DTMF	DTMF tone edit
short press number *	R/T	Switch R/T

LCD display



Dual-band Interface

Icon Description

Icon	Description
CT	Analog Sub-audio Tone Indicator.This symbol indicates that the current sub-audio tone is an analog tone. When this symbol appears during transmission, it signifies that an analog sub-audio signal is being transmitted.
DCS	Digital Sub-audio Tone Indicator. This symbol indicates that the current sub-audio tone is a digital tone. When this symbol appears during transmission, it signifies that a digital sub-audio signal is being transmitted.
H	High Power Indicator. This symbol indicates that the current transmission power is set to high.
M	Medium Power Indicator. This symbol indicates that the current transmission power is set to medium.
L	Low Power Indicator. This symbol indicates that the current transmission power is set to low.
N	Narrowband Mode Indicator. This symbol appears when the channel is operating in narrowband mode.
W	Wideband Mode Indicator. This symbol appears when the channel is operating in wideband mode.
+	Frequency Mode (+ Frequency Offset) This symbol appears in frequency mode, indicating that the transmission frequency is the reception frequency plus a frequency offset.
-	Frequency Mode (- Frequency Offset) This symbol appears in frequency mode, indicating that the transmission frequency is the reception frequency minus a frequency offset.
R	Frequency/Channel Mode Inverted Frequency. This symbol appears when the reception and transmission frequencies are inverted in frequency or channel mode.
T	Simplex Mode. In simplex mode, the reception and transmission frequencies are adjusted to be the same.
SC	SC (Encryption) Indicator. The appearance of “SC” indicates that the encryption function is enabled.

Icon Description

Icon	Description
AM	AM Modulation Indicator: Displays this symbol to indicate that the current frequency is in AM modulation mode
SCR	Scrambler Function: Indicates that the scrambler function is active.
VOX	VOX (Voice-Operated Transmission): Indicates that the VOX function is enabled. Transmission starts when the microphone's sound pressure level reaches the set threshold.
DW	Dual Standby: Indicates that the dual-band standby function is set and active, allowing simultaneous monitoring of the two frequency points displayed on the screen.
MO	Monitor Function Enabled: Indicates that the monitor function is enabled.
	Side Tone Enabled: Indicates that the side tone function is active, producing a tone sound when transmitting DTMF.
	Keypad Lock: Appears when the keypad is locked. Long press the # key to unlock.
RSSI	Signal Strength: Indicates the strength of the received signal.
	A/B Band: Indicates whether the A band or B band is active.
VOL	Transmit Audio Volume: Indicates the volume level of the transmitted audio.
	Battery Status: Displays the remaining battery power. When the battery is nearly depleted, the outer frame of this symbol flashes, and transmission is prohibited. When the outer frame is green, the device is in super power-saving mode.

Basic Operations

Main Frequency Band Selection

Standby Screen: Short press the **【A/B】** key or Long press the **【EXIT】** key to select the main frequency. The larger display indicates the currently active main frequency band.

PTT Function

When operating on the A band, press the PTT key to transmit on the A band frequency. When operating on the B band, press the PTT key to transmit on the B band frequency.

Channel Mode and Frequency Mode Switch

Short press the **【VFO/MR】** key or Long press the **【OK】** key button to switch channel mode and frequency mode.

AM Air Band Mode

Short press the **【VFO/MR】** key or Long press the **【OK】** key to switch to frequency mode. Directly input the air band frequency within the range of 108 MHz to 136 MHz. The radio will automatically enter AM reception mode, and the channel status will display AM. This mode is primarily used to receive AM modulated signals.

Scanning Mode

Assign the scanning function to the side keys PF2/PF3. Or long press button 1 to start frequency or channel scanning. You can choose one of the following modes from Menu 23:

1. Time Operation Mode (TO) When the walkie-talkie detects a signal, it stops scanning and stays at the same frequency. After 5 seconds, it will resume scanning, even if the signal is still present.

2. Carrier Operation Mode (CO)

The walkie-talkie stops scanning and remains at the same frequency when it detects a signal, until the signal disappears. There is a 2-second delay before scanning resumes after the signal is lost.

3. Search Operation Mode (SE)

Upon detecting a signal, the walkie-talkie exits the scan and stays on this frequency.

Commercial FM Radio Broadcast Reception Functions (Long Press Button 0)

1. Long press the button 0 to turn on the FM RADIO; the screen will display the current frequency.

2. Use the UP/DOWN keys or the channel knob to adjust the frequency. You can also input a frequency directly via the keypad.

Basic Operations

Frequency Sweep Function / Copy Frequency

(Define PF2/PF3 buttons as SEARCH from Menu 24-26)

This function is used to seek the frequencies and sub-tones of nearby radios for immediate communication.

After defining the side keys (PF buttons) as SEARCH, press the button until the LCD displays "SEARCH/SEEK...".

Press the OK button to select the frequency band from UHF/VHF/200M/300M. After capturing a frequency, it will continue to seek sub-tone CTCSS/DCS. If no sub-tone is found, the LCD will display "NONE." At this point, you can press the **【MENU】** key to save the frequency to a specified channel, or press the UP or DOWN key to start the next frequency scan.

Weather Forecast NOAA Function

(Define PF button as NOAA from Menu 24-26)

Press the designated side key to activate this function. The radio has 10 built-in fixed frequencies.

You can press the UP/DOWN keys to select the frequency you want to listen to.

Note: The NOAA weather forecast function is available only in countries and regions that support the NOAA channels.

DTMF Encode Sending

Fast Operation: Press and hold the PTT button while entering the number keys 0-9, MENU, UP, DOWN, EXIT, *, and #. The radio will transmit DTMF codes 0-9, A, B, C, D, *, and #. Release the button to stop sending codes.

Editing DTMF Code: In standby mode, short press the **【#】** button to enter the DTMF code editing interface. You can enter codes 0-9, OK, UP, DOWN, Exit, *, and # via the keypad. Press PTT to send the DTMF code.

PTT-ID Function

Transmit identity codes or call codes via DTMF. There are 15 sets of call codes, configurable through "Programming Software → Edit → DTMF". Each signal or A/B band can independently select the call code group to be sent.

Configure identity code parameters via "Programming Software → Edit → DTMF → Local ID Code". There are three transmission methods:

Send on Press: After pressing the PTT, the call code/identity code is sent first, followed by the voice signal.

Send on Release: After releasing the PTT, the call code/identity code is sent, then the transmission ends.

Send Both: The call code/identity code is sent both when the PTT is pressed and released.

Note: Since the identity code operation is independent of the call code, if there is a conflict between the identity code and the call code settings, the identity code will be sent.

Menu Function Operation Instructions

- 1.Press the **[OK/MENU]** key and use the UP/DOWN keys to select the desired menu.
 - 2.Press the **[OK/MENU]** key again to enter the selected menu.
 - 3.Use the UP/DOWN keys or the channel knob to choose menu options, or input keypad number to enter the function quickly.
 - 4.Press the **[OK/MENU]** key to confirm and return to the main menu.
 - 5.Press **[EXIT]** to exit the menu and return to normal operation mode.
- Note:** Frequency step, repeater shift direction, and frequency shift can only be set in frequency mode.

Shortwave Interface

- 1.Press and hold **[0]** to enter the shortwave interface.
- 2.In the shortwave interface, briefly press **[*]** to switch STEP/BW/LAN/BFO.
- 3.Press **[MENU]** button to select modulation, press **[#]** to search frequency.



Menu	Second Menu	Third level menu	
Modulation	FM	FM MEMCH	1...15
	AM	AM MEMCH	1...15
		Work Band	LW Band
			MW Band
			SW Band
		Frequency Step	1K,10K,100K
		LNA	AGC
			0bd,....,-35bd
	LSB/USB/CW	SSB MEMCH	1...15
		Frequency Step	1K,5K,10K,100K,500K,1000K
		Bandwidth	0.5K,1.0K,1.2K,2.2K,3.0K,4.0K
		LNA	AGC
		BFO	0bd,....,-35bd

Menu Function List

No	Menu	Second Menu	Setting
0	SQL	0,...,9	Setting the squelch to off will open up the squelch entirely, Squelch is silences the receiver when there is no signal. The lower level is easier to interfere, and in the higher level, the sensitivity is not as good as lower level, so It is best to set it to middle.
1	STEP	2.5K 5.0K 6.25K 8.33K 10.0K 12.50K 20.0K 25.0K 50.0K	In frequency mode, press the up and down keys to change the step of the frequency. Selects the amount of frequency change in VFO/frequency mode when scan or press UP/ DOWN keys.
2	TXP	High	Select the transmit power in Frequency Mode. Use the minimum transmit power necessary to achieve the desired communication.
		Middle	
		LOW	
3	SAVE	OFF	Different levels of Power Saving Mode.
		Normal Mode	
		Super Mode	
		Deep Mode	
4	VOX	OFF	Disable Voice Transmit function.
		1,2,... 9	The sound pressure level to activate VOX. Level 1 is the most sensitive, and Level 9 is the least sensitive.
5	W/N	WIDE	Wideband(25Khz bandwidth).
		NARROW	Narrowband(12.5Khz bandwidth).
6	ABR	ON	Backlight is always ON.
		5sec,....,3min	Backlight auto switch off time.
7	TDR	OFF	Dual frequency standby OFF.
		ON	Dual frequency standby ON.
8	BEEP PROMPT	OFF	Operate beep OFF.
		ON	Operate beep ON, Allows audible confirmation of a key press.

Menu Function List

No	Menu	Second Menu	Setting
9	TOT	OFF	Hold down the PTT key to transmit continuously.
		15S...75S	In 15-step increments, indicates the maximum transmission duration when the PTT key is pressed.
10	ZONE	ZONE 1,..., ZONE 15	Enter the zone list to access and select a zone.
11	MEMCH	CH-001,...,064	When storing a channel, this indicates the channel number to be stored. If "CH-" is displayed before the number, it signifies that the channel already contains stored parameters.
12	DELCH	CH-001,...,064	Deletes the channel parameters of the specified channel. The absence of the "CH-" prefix indicates the channel has no parameters and does not require deletion.
13	R-CTCSS	OFF	None CTCSS
		67.0HZ,..., 254.1HZ	Standard sequence for analog tones (CTCSS). Standard or non-standard analog tones can also be directly entered via the keypad.
14	R-DCS	OFF	None DCS
		D023N,...,D754I	Standard sequence for digital tones (DCS).
15	T-CTCSS	OFF	None CTCSS
		67.0Hz,..., 254.1Hz	Standard sequence for analog tones (CTCSS). Standard or non-standard analog tones can also be directly entered via the keypad.
16	T-DCS	OFF	None DCS
		D023N,...,D754I	Standard sequence for digital tones (DCS).

Menu Function List

No	Menu	Second Menu	Setting
17	VOICEPRI	OFF	Subtone encryption, if enable, others can't hear if their frequency and CTCSS/DCS is same as yours.
		Encryption 1	
		Encryption 2	
		Encryption 3	
18	CH-NAME	Channel Name	Input channel name, press # to switch input method.
19	ROGER	OFF	Disable
		BEEP	Turn on the call end tone. A confirmation tone will sound when the PTT key is released.
		TONE1200	Send the frog sound
20	VOICE	OFF	Voice prompts OFF.
		ON	Enable the voice prompt function. A voice confirmation will sound when a key is pressed.
21	LANGUAGE	ENGLISH	Display the English menu and play English voice prompts.
		русскнЙ	Display the русскнЙ menu and play Chinese voice prompts.
22	BCL	OFF	Disable Busy Channel Lockout. Transmission is always permitted, even if the channel is occupied.
		ON	Transmission is prohibited if the channel is occupied. If [PTT] is pressed on a busy channel, the radio will beep and not transmit.
23	SC-REV	TO	Time-Based Scan Mode: Scanning resumes 5 seconds after a signal is detected.
		CO	Carrier-Controlled Scan Mode: Scanning pauses when a signal is detected and resumes after the signal disappears.
		SE	Search Scan Mode: Scanning stops when a signal is detected.
24	PF2	RADIO/TX POWER/ SCAN/SEARCH/ NOAA/SOS/ SPECTRUM/PTTB	Allows assigning a shortcut function to the PF2 side key (corresponding to a short press operation).

Menu Function List

No	Menu	Second Menu	Setting
25	PF2 LONG PRESS	RADIO/TX POWER/SCAN/SEARCH/NOAA/SOS/SPECTRUM	Allows you to assign the function you want as a shortcut to the radio PF2 keys. This corresponds to long press.
26	PF3	RADIO/TX POWER/SCAN/SEARCH/NOAA/SOS/SPECTRUM	Allows you to assign the function you want as a shortcut to the radio PF3 keys. This corresponds to short press.
27	OFFSET	0	Frequency difference between radio transmission and reception.
28	SFT-D	OFF	Enable access of repeater mode, OFF: None repeater shift.
		+	In frequency mode, the TX frequency equals the RX frequency plus the frequency difference.
		-	In frequency mode, the TX frequency equals the RX frequency minus the frequency difference.
29	POWER ON MSG	LOGO	Display a preset image at power-on.
		VOL TAGE	Display the battery voltage at power-on.
30	S-CODE	1,2,3...15	Select 1 code from 15 DTMF codes. The DTMF codes are programmed via software, with each code containing up to 5 digits.
31	DTMF CODE	OFF	Disable.
		BOT	Transmit DTMF code when press PTT.
		EOT	Transmit DTMF code when release PTT.
		BOTH	Transmit DTMF code both when press PTT and release.
32	DTMFST	OFF	The radio does not emit the DTMF code sounds during transmission, whether from manual keypresses or automatic code sending.
		DT-ST	The radio emits the DTMF code sounds during transmission when codes are entered via the keypad.

Menu Function List

No	Menu	Second Menu	Setting
32	DTMFST	ANI-ST	The radio emits the DTMF code sounds during transmission when automatically sending its identity code.
		DT+ANI	The radio emits the DTMF code sounds during transmission for both manual keypad entries and automatic identity code sending.
33	AUTOLOCK	OFF	Keypad lock turn off.Allow manual keypad lock (press and hold the # key to lock/unlock the keypad).
		5S、10S、15S	Disable automatic keypad lock.
34	SCAN ADD	ADD/Delete	Add or delete the channels into scan list.
35	TONE	1000Hz,1450Hz,1750Hz,2100Hz	Press and hold both the [PTT] button and the PF2 side key to transmit a specific frequency tone. A common burst tone frequency used in many amateur radio systems in Europe is 1750 Hz.
36	PTT-LT	0,100,...,1000Ms	The delay time (in milliseconds) before automatically sending a code.
37	MENU EXIT TIME	5,10,...60sec	During the menu operation, the delay time for exiting due to no operation.
38	VOX DELAY	0.5sec,...,2.0sec	VOX delay time.
39	RP-STE	OFF	This function is used eliminate squelch tail noise when communicating through a repeater (1-10 sec).
		100ms,...,1000ms	
40	RPT-RL	OFF	Delay the tail tone of repeater(1-10s).
		100ms,...,1000ms	
41	MDF-A	NAME	In Channel Mode, Segment A displays the channel name.
		FREQ	In Channel Mode, Segment A displays the frequency.
		CH	In Channel Mode, Segment A displays "CH" and the channel number.
42	MDF-B	NAME	In Channel Mode, Segment B displays the channel name.
		FREQ	In Channel Mode, Segment B displays the frequency.
		CH	In Channel Mode, Segment B displays "CH" and the channel number.
43	TX-A/B	OFF	In dual standby mode, press PTT to transmit in Main Band.
		A	In dual standby mode, press PTT to transmit in A Band.
		B	In dual standby mode, press PTT to transmit in B Band.

Menu Function List

No	Menu	Second Menu	Setting
44	STE	OFF	The radio does not send a squelch tail after releasing PTT. Typically used when operating through a repeater to hear noise and confirm if the signal is being relayed.
		ON	The radio transmits a squelch tail code after releasing PTT to suppress instant noise on the receiving end.
45	AL-MOD	ON SITE	Only the local unit emits a siren sound.
		SEND SOUND	Sends an alarm siren sound to the group, and the local unit also emits the siren.
		SEND CODE	Sends an alarm code (ANI-ID) to the group, and the local unit emits a siren sound.
46	SCRAMBLE	OFF/ON	Voice scrambler function. Provide two scrambler frequency, prevent parties on other radios at same frequency from hearing and understand your voice
47	NOISE REDUCTION	OFF/ON	Option function, Turn on Noise Reduction/Cancellation.
			RT-900 bluetooth version only.
48	BLUETOOTH	OFF/ON	Option function, Turn on bluetooth connect with mobile app, RT-900 bluetooth version only.
49	RESET	VFO	Menu initialization.
		ALL	
50	RX Modulation	FM	Switch between AM modulation or FM modulation.
		AM	
51	VERSION	Firmware	Show firmware version number
		Hardware	Show Hardware version number

Appendix A-Troubleshooting Guide

Issue	Analysis	Solution
Cannot turn on the radio.	The battery may be installed improperly.	Remove and reattach the battery.
	The battery power may be depleted.	Recharge or replace the battery.
	The battery contacts may be dirty or damaged.	Clean the battery contacts or replace the battery.
Voice is weak or intermittent during receiving.	The battery voltage may be low.	Recharge or replace the battery.
	The volume level may be low.	Increase the volume.
	The antenna may be loose or installed incorrectly.	Turn off the radio, then remove and reattach the antenna.
	The speaker may be blocked.	Clean the surface of the speaker.
Cannot communicate with other group members.	The frequency or signaling type may be inconsistent with other members.	Verify that your TX/RX frequency and signaling type are correct.
	You may be too far away from other members.	Move closer to other members.
Hear unknown voices or noise.	You may be interrupted by radios using the same frequency.	Change the frequency or adjust the squelch level.
	The radio may be set with no signaling in analog mode.	Change or set signaling for the current channel to avoid interference.
Too much noise and hiss, unable to hear anyone.	You may be too far away from other members.	Move closer to other members.
	You may be in an unfavorable position(e.g., blocked by buildings or underground).	Move to an open and flat area, restart the radio, and try again.
	There may be external disturbances(e.g., electromagnetic interference).	Stay away from equipment that may cause interference.
Radio keeps transmitting.	VOX may be turned on, or the headset is not properly installed.	Turn off the VOX function. Ensure the headset is properly installed.

▲ If the above solutions do not resolve your issues, or if you have other queries, please contact your dealer for further technical support.

Charging Instructions

- 1.Dock Charging (Optional): Insert the battery pack or the radio with the battery pack into the charging dock. Ensure proper contact with the charging terminals of the dock.
- 2.Type-C Charging: Connect the provided charging cable to the power adapter and plug the power adapter into an AC power outlet. Insert the charging cable into the Type-C interface of the main unit's battery.
- 3.When the device is charging, the red indicator light indicates charging in progress. The green indicator light indicates charging is complete.

Cleaning and Maintenance

To ensure optimal performance and extend the lifespan of this product, please follow the guidelines below for daily maintenance and cleaning.

Daily Maintenance:

- 1.Do not pierce or scratch the product with hard objects.
- 2.Do not store the product in environments containing chemical corrosive substances.
- 3.Do not carry or use the product by pulling the earphone cable.
- 4.When not using the earphone jack, cover the interface with the protective cap.

Cleaning Procedure:

Before cleaning, please power off the device and remove the battery:

- 1.Regularly use a dry, clean, lint-free cloth or a soft brush to remove dust from the product surface and charging terminals.
- 2.If the buttons or casing become dirty, use a neutral detergent and a non-woven cloth for cleaning. Do not use detergents, alcohol, sprays, or petroleum-based chemicals as they may damage the surface casing.
- 3.After cleaning, ensure the product is completely dry before use.

Warranty Terms

The warranty period for this product starts from the date of sale (based on the date on the sales invoice). The main unit is covered for 12 months, and the battery and charging accessories are covered for 6 months. The following cases will require paid repair services during the warranty period:

- 1.Failure to present this warranty card and the purchase invoice.
- 2.This card shows signs of alteration or does not match the product.
- 3.Defects and damages caused by using this product under non-standard conditions.
- 4.Defects and damages caused by misuse, accidents, water ingress, or negligence.
- 5.Defects and damages resulting from improper testing, operation, repair, installation, modification, or adjustment.
- 6.Defects and damages caused by unauthorized repairs or disassembly.
- 7.Defects and damages caused by force majeure.
- 8.Normal wear and tear from regular use.

Product Warranty Card

Sales Information	Dealer (Valid with Stamp):
	Contact Number:
	Address:
Product Information	Product Model:
	Serial Number:
	Purchase Date:
User Information	User Name:
	Contact Number:
	Address:

This warranty card serves as an important proof for the end user to enjoy warranty services. It must be stamped and filled out completely by an authorized dealer to be valid. Please keep it safe.