This package is
100% recyclable

TK11

TWO-WAY RADIO

User' s Manual

Thank you for purchasing this radio. We believe this easy-to-use radio will provide reliable and dependable communication. We know that you will be pleased with the quality and features of this product.

PRECAUTIONS BEFORE USING

This radio incorporates excellent design and the latest advanced technology. The following advice will give you important information about how to operate this portable radio safely.

Please put the radio and accessories where the children cannot reach.

Maintenance can only be performed by professional technicians.

Please use the standard battery pack and charger in order not to destroy the radio.

Please use the standard antenna, in order not to shorten the communication distance.

Do not expose the radio to sunlight for a long period of time, nor put it near the heat.

Do not put it in extreme dust or wet environment.

Do not clean the radio with fierce chemical products, cleaning agents or strong washing agents.

Do not transmit when the antenna is not installed.

If you find bad smell or smog, please turn off the radio immediately. And take the battery off the radio, then contact with the agent.

Charging Notes:

- Battery packs are not charged when they are shipped. Charging them before use.
- Initially charging the battery pack after purchase or extended storage (longer than 2 months) will not bring the battery pack to its greatest capacity or its normal charge, which can be done only after repeated charging and discharging two or three times.
- Do not use the radio during charging. This will affect the normal charging of the battery pack, causing damage to the radio and accidents.
- After the battery pack is fully charged, please take it out of the charger-base. Do not charge it again before the battery is completely running out. Or it will destroy the memory effect of the battery.
- Although using the right charging ways, but the battery does not gain capacity or using time, it means the battery life is near the end, please change a new battery pack.
- Please adopt original factory battery pack and charger. They are available with your local agent.
- If you have question about non original factory battery pack and accessory, please do not use them. Or it will cause dangerous accidents.

Charger-Base Instructions:

- Plug the lithium battery or radio equipped with the lithium battery into the charger base, and ensure that the battery is in normal contact with the charging base.
- The green light is steady on when the charging base is empty; When the red light is on, charging begins; When full, the green light is steady on.
- After the lithium battery pack is fully charged, take it out of the charger.

Note:
1. When the radio is charging (base-charger /Type-C charging), it is forbidden to transmit so as to avoid damage to the radio and accidental danger.
2. When the radio is charged (base-charger /Type-C charging), the receiving effect will be affected.
3. Do not short circuit the battery terminal or discard the battery in the fire.
4. Do not remove the battery pack cover without permission.

CONTENTS

Complete Radio Accessories

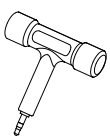
Carefully unpack the portable radio. We suggest that you check the following items before you throw away the packing materials.

Accessory List

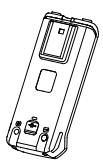
Item	Qty
Two Way Radio Body	1
Antenna	2
Li-ion Battery	1
Belt Clip	1
Charger	1
Adapter	1
User's Manual	1
Lanyard	1

Supplied Accessories

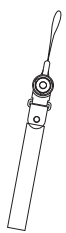
Antenna 1
(50MHz/144MHz/430MHz)



Antenna 2
(0.153MHz~18MHz)



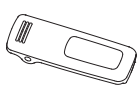
Li-ion Battery



Lanyard

Charger

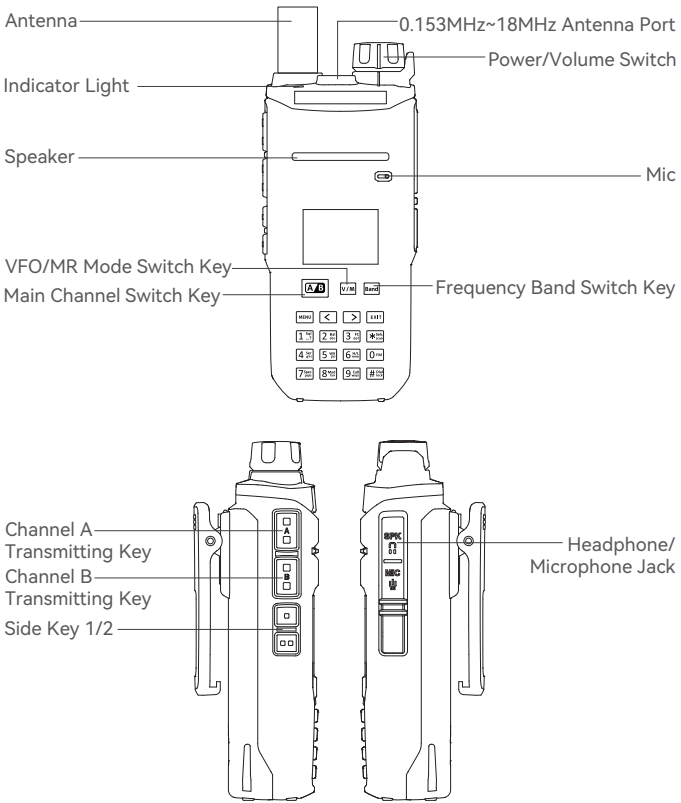
Adapter



Belt Clip

User's Manual

Radio Diagram



Key Operation Instructions (1)

PTT Key

- Switch key for transmitting and receiving, press this key when transmitting, and speak into the microphone;

  Release this key when receiving.

  PTT1: Channel A transmitting key

  PTT2: Channel B transmitting key

Side Key

- Initial Function:

  Side key 1: Short press: monitor; Long press: 1750Hz.

  Side key 2: Short press: flashlight; Long press: emergency alarm.

The functions that can be set by short/long press of the side keys are listed in the table below:

Monitor	On or off the monitor function. Ignore all received signaling and monitor all activities in the channel. You can press this key to monitor noise and adjust the volume.
High and Low Power	Can be switched between high and low power.
FM Radio	Turn FM radio mode on or off.
Scan	Turn scan mode on or off.
VOX Switch	Turn on/off VOX for the current channel.
Transmitting 1750	Turn on 1750 continuous transmitting.
Flashlight	Turn on/off flashlight.
Emergency Alarm	Press to start the emergency alarm, and the alarm is activated according to the working mode set by the programming software.

Key Operation Instructions (2)

A/B Key

- In the main interface, switch the main and sub channel, and the channel displayed with ▶ is the main channel.

V/M Key

- In the main interface, switch frequency mode and channel mode.

Band Key

- Switch frequency bands in VFO mode.

Number Key Instructions:

0	Listen to FM radio.
1	Short press to adjust the squelch SQL level, and long press to adjust the frequency step value.
2	Short press to adjust the volume of channels A and B, and long press to change the channel display mode.
3	Short press to start the one-key frequency matching, and long press to turn on/off the dual receive function.
4	Short press to start the CTCSS/DCS detection, and long press to turn on/off the noise reduction function.
5	Short press to listen to weather channel, and long press to turn on/off the voice changer function.
6	Short press to adjust the transmit power, and long press to turn on/off the VOX function.
7	Short press to start the spectrum analyzer function, and long press to turn on/off the reverse frequency talk around function.
8	Short press to select the receiving modulation mode (FM,AM,LSB,USB), and long press to store channel.
9	Jump to the one key call channel.
*	Short press to enter the dialing call interface, long press to turn on the scanning function.
#	Short press to enter the frequency or channel number adjustment interface, long press to turn on/off the keypad lock.

LCD Display

You could check the different designated symbols in the LCD. The following chart helps you to understand them.

LCD Icon Display

	Signal Strength. The smaller the number of grids, the weaker the signal.
HML	Transmitting output power indicator. The current transmitting output power is high(H), medium(M) or low(L).
CT DCS	CT will appear when current code is CTCSS code. DCS will appear when current code is DCS code.
	Voice prompt is on.
N	The radio work in narrow band mode.
VOX	VOX Function. When the sound pressure reaches the set value, the transmission is started. This function can be set through the menu.
+ −	+ It means transmitting frequency equals receiving frequency plus a frequency deviation . − It means transmitting frequency equals receiving frequency minus a frequency deviation.
DTMF TONE	DTMF or 5-tone signal decoding is on.
DR	Turn on dual receive.
	Keypad locking.
	Display of the current battery. When the battery is nearly exhausted, it shows . It means the battery needs to charge and the radio will send low power alarm prompt regularly.
▶	Main channel indicates. All operations are aimed at main channel.
SCR	The voice encryption of this channel is on.
R	Talk around mode. Receive and transmit frequency reverse.
DN	Noise reduction sign.
MV	Change of voice sign.
NS	NOAA atuomatic scan.
SAME	Turn on NOAA SAME decoding.
S	Power saving.
SC	Scan.
RX	Receiving.
TX	Transmitting.

Menu Information

Press the MENU key to enter the main menu. Press the Left/Right keys or directly enter a number to select the main MENU item, and press the Menu key to confirm the selection, and press EXIT to return to the Upper Menu.

Item Name	No.	Menu Function	Function Description
Basic Settings	1-1	SAVE	(Off, 1:1,1:2,1:3,1:4), power saving ratio.
	1-2	ABR	Automatic backlight control (off, 1-5:1-5 seconds to turn off backlight.)
	1-3	BEEP	Key tone switch (off, on)
	1-4	VOICE	Voice prompt (off, on)
	1-5	LANGUAGE	Voice selection (ENG, Chinese)
	1-6	MDF	Channel display mode (frequency, channel number, channel name)
	1-7	AUTOLK	Automatic keyboard lock (off, on)
	1-8	MIC	MIC sensitivity (1-5: grade 1-5)
	1-9	PONMSG	Power on display interface (full display, custom, voltage, picture.)
	1-10	DENOISE	Voice noise reduction (off, 1-6: levels 1 to 6) to reduce background noise.
	1-11	MAGICV	Magic voice selection (off, 1-5: levels 1 to 5)
	1-12	SKEY1_S	Side key 1 short press function selection.
	1-13	SKEY1_L	Side key 1 long press function selection.
	1-14	SKEY2_S	Side key 2 short press function selection.
	1-15	SKEY2_L	Side key 2 long press function selection.
	1-16	RESET	Reset (VFO: reset parameters excluding channel parameters; full reset: reset all parameters)
Channel Settings	2-1	SQL	Noise level 0-9.
	2-2	STEP	Step frequency (1K,1.5K,2K,2.5K,5K,6.25K, 8.33K,9K,10K,12.5K,15K,20K,25K)
	2-3	TXP	Transmit power (high, medium, low).
	2-4	C CTC/DCS	CTCSS/DCS codec, simultaneously configured to receive and transmit CTCSS/DCS (none, CTCSS,DCSN,DCSI)

Menu Information

Item Name	No.	Menu Function	Function Description
	2-5	R CTC/DCS	CTCSS/DCS decoding, configured to receive CTCSS/DCS (none, CTCSS,DCSN,DCSI)
	2-6	T CTC/DCS	CTCSS/DCS coding, configured to send CTCSS/DCS (none, CTCSS,DCSN,DCSI)
	2-7	SFT-D	Offset frequency direction (none: transmit frequency = receive frequency; + : transmit frequency = receive frequency + offset frequency; - : transmit frequency = receive frequency - offset frequency)
	2-8	OFFSET	Offset frequency (0-999.9999M)
	2-9	W/N	Bandwidth configuration (wideband: 25 KHz, narrowband: 12.5 KHz)
	2-10	MW/SW-BW	Medium-wave and short-wave channel bandwidth configuration: 2KHz、2.5KHZ、3KHz、3.5KHz、4KHz、4.5KHz、5KHz、5.5KHz
	2-11	SCR	Encrypted calls (off, 1-10)
	2-12	BCL	Busy channel lock (off, on)
	2-13	DEMOD	Channel modulation mode: FM, AM, LSB, USB
	2-14	SIGNAL	Selective call code type (DTMF, 5-tone)
	2-15	PTT-ID	DTMF PTT-ID transmit mode (off: no transmit, start transmit: call start transmit up code, end transmit: call end transmit down code, always: both transmit)
	2-16	DECODE	Signaling decoding enable signal (off, on)
	2-17	MEM-CH	Store channel (# key to switch input method, select channel and input channel name through up /down key and number key), click MENU key to complete the storage.
	2-18	DEL-CH	Delete the channel (select the channel by the up/down key or number key), click the MENU key to complete the deletion.
Business Settings	3-1	VOX	VOX setting (off, 1-10: highest sensitivity at level 1)
	3-2	DUAL RX	Dual receive switch (off, on)

Menu Information

Item Name	No.	Menu Function	Function Description
	3-3	TOT	Maximum time for continuous transmit, (off, 1-10 minutes), timeout to end transmit and alarm prompts.
	3-4	STE	Tail tone elimination （off,on)
	3-5	RP-STE	Repeater confirmation tone (off, 100-1000ms)
	3-6	QUICK CALL	Setting the shortcut channel (select channels by up/down and number keys.)
	3-7	ROGER	Transmit the end tone (none: no end tone, beep, frog, or user-defined voice 1-5), and download the customized voice through the programming software.
	3-8	AL-MOD	Alarm mode (local: local alarm; remote: transmit alarm signal + local alarm)
	3-9	SBAR	Signal strength bar display switch (off, on), display received signal field strength.
	3-10	MWSW AGC	Medium wave, short wave automatic gain control (on, off), improve the reception of strong signals.
Frequency Scan	4-1	SC-REV	Search for recovery mode (TO: continue scanning after 5s; CO: wait for the signal to disappear and continue scanning; SE: stop scanning after receiving the signal.)
	4-2	START FREQ	Current VFO band scan start frequency.
	4-3	END FREQ	Current VFO band scan end frequency.
Channel Scan	5-1	SEL LIST	Scan list selection (none, 1-32 corresponds to 32 scan lists, channel scanning is not possible when “none” is selected.)
	5-2	EDIT LIST	View and modify the current scanning list. Current channel: the currently displayed MR channel, P1 XXXX: priority scanning channel 1. P2 XXXX: priority scanning channel 2. Add: add a channel to the scanning list. On any channel you can remove this channel from the scan list by using the MENU key.

Menu Information

Item Name	No.	Menu Function	Function Description
	5-3	PRO 1 CHAN	Priority scan channel 1 selection. Select the priority scan channel from the scan list.
	5-4	PRO 2 CHAN	Priority scan channel 2 selection. Select the priority scan channel from the scan list.
	5-5	EDIT NAME	Edit the current scan list name.
One-Key Frequency Matching	6-1	TIMEOUT	Edit the maximum duration of frequency measurement (1-32 seconds), the timeout is the failure of detecting a valid signal prompt.
	6-2	DECODE MODE	Select the CTCSS,DCS detection mode. General mode: detects standard CTCSS/DCS. Expert mode: cracks non-standard CTCSS,DCS. Self-learning mode: crack non-standard inverter DCS.
	6-3	DCS MODE	When the detection mode is Expert Mode, select DCS 23bit or 24bit.
	6-4	DET THRES	Set the number of detection times to determine the validity of the CTCSS/DCS.
DTMF Settings	7-1	LOCAL ID	Identity code, DTMF communication local ID.
	7-2	UPCODE	DTMF up code
	7-3	DWCODE	DTMF down code
	7-4	DELIMITER	Separation code
	7-5	GRPCODE	Group call code
	7-6	SIDE TONE	DTMF sidetone switch (Off, On)
	7-7	DECODE RSP	DTMF decoding response (Off, Ring, Auto response, Ring+Auto reply)
	7-8	HOLD TIME	DTMF auto reset time (5s-60s)
	7-9	PRE TIME	DTMF pre-carrier time before sending code (30-990ms)
	7-10	1ST TIME	Duration of sending DTMF first code (30-990ms)
	7-11	*# TIME	Duration of sending special characters (30-990ms)
	7-12	ON TIME	Duration of sending normal characters (30-990ms)

Menu Information

Item Name	No.	Menu Function	Function Description
	7-13	OFF TIME	Time between sending two codes (30-990ms)
	7-14	SEL CONTACT	Select the contact for DTMF call, (select the contact by up/down key and number key, click MENU key to select it will jump back to the main interface, then you can call it directly)
	7-15	EDIT CONTACT	Add, edit contact
	7-16	DEL CONTACT	Delete contact
5TONE Settings	8-1	LOCAL ID	Identity code, 5TONE Communication local ID
	8-2	UPCODE	5TONE Upline code
	8-3	DWCODE	5TONE Downline code
	8-4	REPEATER	Repeat tone
	8-5	GRPCODE	Group call code
	8-6	SIDE TONE	5TONE Side tone switch (Off, On)
	8-7	CALL RSP	5TONE Decode response (Off, Ring, Auto response, Ring+Auto reply).
	8-8	HOLD TIME	5TONE Auto reset time (0s-60s)
	8-9	PRE TIME	5TONE Pre-carrier time before sending code (30-990ms)
	8-10	1ST TIME	Duration of sending 5TONE first code (30-990ms)
	8-11	ON TIME	Length of time to send normal characters (30-990ms)
	8-12	OFF TIME	Time between sending two codes (30-990ms)
	8-13	SEL CONTACT	Select the contact for 5TONE call, (select the contact by up and down key and number key, click MENU key to select it will jump back to the main interface, then you can call it directly).
	8-14	EDIT CONTACT	Add, edit contact
	8-15	DEL CONTACT	Delete contact
	8-16	STANDARD	Standard selection (EIA, EEA, CCIR, ZVEI1, ZVEI2, User-defined)
	8-17	SYM FREQ	View the frequencies corresponding to all 5TONE codes.

Menu Information

Item Name	No.	Menu Function	Function Description
NOAA Settings	9-1	SCAN	NOAA Channel auto scan switch (Auto scan, Manual scan)
	9-2	SQL	NOAA channel squelch level
	9-3	DECODE	Decoding mode (1050Hz, SAME).
	9-4	EVENT MODE	Event mode (default, all on, all off, user-defined).
	9-5	LOC MODE	Location mode (Single Address, Multi-Address, Any Address, where Single Address and Multi-Address are user-defined to select the address list)
	9-6	EVENT SET	Event setting, use MENU key to enter the next level menu to view and modify the on and off of each event (only menu 9-4 in user-defined mode can modify the on and off of the event).
	9-7	LOC SET	Location setting, use MENU key to enter the next level menu to view and modify the address list of the current monitor (only in single address and multi-address mode can modify and delete the location information).
	9-8	EVENT LIST	Event list, use the MENU key to enter the next level menu to view the list of received alarm events. The MENU key can be used to view the event information in each event menu.
Host Information	10-1	HOST NAME	View the local user name.
	10-2	LOGO1	Edit the power-on interface LOGO1 character.
	10-3	LOGO2	Edit the power-on interface LOGO2 character.
	10-4	VERSION	View software version

Common Operations Introduction

(1) Switching Main Channel

Press the A/B key to switch the main channel up or down, ▶ Indicated main channel.

(2) Single/Dual Receive Switching

Long press number key 3 to switch, the display shows DR for dual receive, or when menu 3-02 selects on dual receive, short press number key 2 to adjust the volume level of channel A and channel B with the left/right keys.

Note: The dual receive function cannot be used when channel A is operating in the F1, F2, and F11 bands.

(3) Frequency/Channel Mode Switching

In the main interface, press the VFO/MR key to switch between frequency mode and channel mode.
VFO Mode: Press the up/down keys to adjust frequency by frequency step, or short press the # key and use the number keys to input the receive frequency.
Channel Mode: Press the up/down keys to select the channel, or short press the # key and use the number keys to input the channel number.

(4) Select VFO Frequency

VFO Mode: Press the up/down keys to adjust frequency by frequency step, or short press the # key and use the number keys to input the receive frequency.

Common Operations Introduction

(5) Select Receive Demodulation Mode

Press the 8 key to select the receive demodulation mode: AM, LSB, USB, FM.

(6) Select Channel

Channel Mode: Press the up/down keys to select the channel, or short press the # key and use the number keys to input the channel number.

(7) Select Frequency Band

In VFO mode, use the BAND key to select the desired frequency band.
Channel A: F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, F11
Channel B: F5, F6, F7, F8, F9, F10, F12, F13.

(8) Store Channel

In MR mode, you can copy the current channel to new channel.
In VFO mode, set the receive frequency, offset frequency direction, wide/narrow bandwidth, transmit and receive code, transmit power, signaling decoding, voice encryption, and other parameters. Then, long press the 9 key to store the channel, or press MENU to enter menu 2-17, press MENU again to enter, use the up/down keys to select the channel number to store, or use the number keypad to input the channel number. Press MENU, enter the channel name, and press "MENU" again to store the channel. When selecting a stored channel, "CH-XXX" will display, indicating that the channel is already stored. "XXX" indicates that the channel is empty.

(9) Delete Channel

Press MENU to enter menu 2-18, use the up/down keys to select the channel number to delete, or input the channel number using the number keypad. Press MENU, and "SURE?" will display. Press MENU again to delete the channel.

(10) Set Receive and Transmit CTCSS/DCS

Enter menu 2-04 to set the receive and transmit CTCSS/DCS
Enter menu 2-05 to set the receive CTCSS/DCS
Enter menu 2-06 to set the transmit CTCSS/DCS
Press the # key to select CT, DCSN, or DCSI, and use the up/down keys to choose the required CTCSS/DCS from the list, or directly input using the keypad (CT: 60.0~260.0), (DCS: 000~777).

(11) Spectrum Analyzer

After setting the center frequency, press the 7 key to enter the spectrum analyzer. Press the 1 key to modify the center frequency. Short press the left/right keys to change the value, or long press to change the value continuously. Press EXIT to exit the edit mode.
Press the 2 key to modify the reference field strength value. Short press the left/right keys to change the value, or long press to change the value continuously. Press EXIT to exit the edit mode.
Press the 3 key to modify the scan bandwidth. Short press the left/right keys to change the value, or long press to change the value continuously. The range is 128 KHz to 6.4 MHz. Press EXIT to exit the edit mode.
Press the 4 key to modify the Mark point location. Short press the left/right keys to change the value, or long press to change the value continuously. Press EXIT to exit the edit mode.

(12) Automatic Signal Search

Set the correct receive frequency and press F+* to start searching for signals. Once a valid signal is received, it will display the detected transmitting signal. Press MENU to store the detected signal to the current channel. SCAN CMP indicates that a valid signal was found and automatic search has stopped. SCAN FAIL indicates that no valid signal was found and automatic search has stopped.

(13) Frequency Meter or One-Key Frequency Matching

One-key frequency matching requires a strong signal, with both the transmitter and receiver having antennas installed and not too far apart. Press F+4 on the receiver to enter the frequency meter interface. Once a strong signal is received, it will display the signal carrier frequency and transmitting signaling (CTCSS or DCS). Press the * key to re-measure the frequency. When measuring non-standard CTCSS/DCS, if no valid value can be detected, you can enter menu 6-02 to select either "Master Mode" or "Self-learning Mode." In self-learning mode, the detected CTCSS/DCS will not be displayed, but you can press MENU to store it for later use.
After detecting a valid frequency, press the MENU key to store the current frequency and transmitting signaling to the designated channel. Press EXIT or PTT to exit the frequency meter during frequency measurement.
Note: Self-learning mode can only store frequency in the first 100 channels.

(14) DTMF and 5-Tone Calling

(14.1) DTMF or 5-TONE Calling

Menu 2-14 is used to set DTMF or 5-tone selective calling:
1.Manual Dialing: Long press PTT and press the number keys on the panel to dial. A/B key: A, MR/VFO: B, Left: C, Right: D.
2.Automatic Dialing: Press the * key and enter a 3-digit number, then short press PTT to initiate the DTMF call. During transmitting, the radio will automatically send its own ID number.
Single Call: Send the target ID number along with its own ID. For example, 123*100 means the user with ID 100 is calling the user with ID 123.
Group Call: Replace one or more digits of the ID number with a group call code to call a group of users.
The group call code is configured using the programming software. For example, if the group call code is set to #: sending 12# will call IDs 120–129 (10 units). Sending 1AA will call IDs 100–199 (100 units).
All Call: Sends a 3-digit group call code to call all users.
Receiving: Menu 2-15 must be set to "ON." When the received code is a DTMF or 5-tone personal ID code, successful decoding will display the caller's username. If the call is successful, you can communicate with the caller within the reset time. After the reset time expires, re-decoding is required. The automatic response after receiving a call can be set in Menu 7-07 and 8-07.

(14.2) PTT ID

Initiation: You can set the DTMF or 5-tone up and down line codes. Menu 2-15 enables the up and down line codes. Each time the PTT is pressed, the up line code is sent, and when PTT is released, the down line code is sent.

(15) Emergency Alarm

The emergency alarm is used to indicate an emergency situation. You can initiate an emergency call at any time, from any screen, even while there is activity on the current channel. The emergency alarm requires the programming software to be configured with an emergency alarm key. Press the emergency alarm key to activate it. The local visual and audible alarm will be triggered, and a wireless alarm command will be sent. The alarm type (local alarm/remote alarm) can be configured. Press any key to exit the alarm mode.

(16) Scanning

Starting Scan:
Method 1: Long press the * key to start or exit scanning.
Method 2: Use the side key to turn the scan switch on or off.
Frequency Scanning: During scanning, you can press the up/down keys to change the scanning direction.
Press PTT, EXIT, or long press the * key to exit scanning.
Menu 4-02 and 4-03 set the frequency scan range.
Channel Scanning: After scanning starts, the radio will sequentially check the channels in the scan list.
During scanning, if a call is received, you can press PTT to reply.
The channel scan options are set in Menu 5.
Priority Scan: You can designate a channel as the priority scan channel. During scanning, 50% of the radios will scan the priority 1 member. If there are priority 2 member, the scanning of priority 1 member will be reduced from 50% to 25%. Even if located on a non-priority channel or after priority 2 member, the radio will continue to periodically scan for transmitting activities on the priority 1 member. If the radio detects activity on priority 1 member, it will stop the current transmitting and switch to the sound of the priority 1 member.

(17) NOAA Receiving

Press the 5 key to enter or exit NOAA weather radio receiving.
This radio has 10 NOAA channels.
The receiving settings can be configured through Menu 9 for NOAA.
If SAME decoding is enabled, received events will automatically be saved in Menu 9-08, with the latest 32 events stored.

(18) FM Radio Receiving

Enter FM mode. Use the up and down keys to change frequencies or preset stations. You can input the station frequency or preset stations via the keyboard.
MR/VFO Switching between VFO and MR modes
Press the 1 key to start the automatic station search process. The stations found will be automatically stored (up to 20 stations).
Press the 2 key to start the manual station search process. If a station is found, the user must manually save the channel.
Press the MENU key to store a station.
Press the EXIT key to exit the station search.
Use the up and down keys to switch the scan direction.
When listening to FM radio, if the radio channel receives a valid call or the PTT key is pressed to initiate a call, it will temporarily exit FM mode and enter intercom mode. After the intercom ends, it will resume FM radio. Press EXIT or 0 key to exit FM mode.

(19) Keyboard Lock

Long press the # key to lock or unlock all the keys. When locked, side keys remain functional.

(20) One Key Call Channel

Press the 9 key to immediately switch to the one key call channel. Important channels can be set as one key call channels through menu 3-06.

(21) Aviation Band Receiving

Enter the receiving frequency. If the local aviation frequency is unknown, you can use the scan function to scan the 108-136 MHz full frequency range. Press the 8 key to select the modulation mode as AM.

(22) Restore Factory Settings

Enter menu 1-16
VFO: Clears all data to the initial state but retains all stored channels.
ALL: Clears all data to the initial state, including stored channels.
The display shows “SURE?” Press the MENU key, and after the radio restarts, all options will return to their factory default values.

Common Operations Introduction

(23) Wireless Radio Replication

Long press the PTT + side key 2 to power on and enter the wireless radio replication interface. The display will show AIR COPY (RDY).
Both the transmitter and receiver can use the number keypad to set the frequency for wireless radio replication. The transmitting and receiving frequency must match, with the default transmitting and receiving frequency being 410.0125 MHz.
The receiver presses EXIT to enter receiving mode, and the display will change to AIR COPY.
The transmitter presses MENU to start transmitting the frequency writing data, and the display will change to AIR COPY.
During the copying process, the copy progress will be displayed as RCV: XX E: XX, where E: XX represents the number of errors in the copied data.
When the copy is complete, the transmitter will display SND: XXX.

Specifications

General specification	
Channel Number:	999
FM Radio Store Number:	32
NOAA Channel Number:	10
Frequency Stability:	±1ppm
Modulation Mode:	FM:11K0F3E(12.5KHz), 16K0F3E(25KHz)
Size:	126mm*58mm*34.5mm
Weight:	289g
Working Temperature:	-20℃+60℃
Antenna Impedance:	50Ω

Transmitting		
Transmitting Power:	25~32MHz	1/2/4W
	50~60MHz	1/2/4W
	144MHz	1/4/10W
	430MHz	1/4/10W
Maximum Frequency Deviation:	≤5KHz(25KHz),≤2.5KHz(12.5KHz)	
Modulation Distortion:	≤5%	
Stray Emission:	≤7.5uW	
Adjacent Channel Power:	70dB(25KHz),60dB(12.5KHz)	
Residual Modulation:	40dB	

Specifications

Receiving			
Reference Sensitivity:	FM(12dB SINAD)	F3(18~32)	-121dBm
		F4(32~76)	-121dBm
		F5(108~135.9975)	-121dBm
		F6(136~173.9975)	-123dBm
		F7(174~349.9975)	-121dBm
		F8(350~399.9975)	-123dBm
		F9(400~469.9975)	-123dBm
		F10(470~579.9975)	-121dBm
	WFM(20dB SINAD)	F11(580~759.9975)	-116dBm
		F12(580~999.9975)	-116dBm
	AM(10dB S/N)	F13(1000~1160)	-116dBm
		WFM(76~108)	-110dBm
		F1(0.153~1.799)	-100dBm
		F2(1.8~17.799)	-110dBm
		F3(18~32)	-110dBm
		F5(108~135.9975)	-113dBm
Audio Power:	≥0.5W		
Audio Distortion:	≤10%		

Note: Specifications are subject to change without notice due to technical improvement.