Talkpod A36plus Multi-Band Two-way Radio User Manual

Thank you for choosing our product. This manual will help you quickly understand how to use the product.
(Applicable to A36plus M12B5UV3 version)

Disclaimer

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Safety Precautions

Please read and follow these concise rules. Failure to comply with these rules may result in danger or violation of the law. This user manual provides more detailed information regarding safety precautions.

Safe Power-On

Do not power on the two-way radio when its usage is prohibited or can cause interference or danger.

Prioritize Traffic Safety

Please comply with all local traffic laws and regulations. Whenever possible, use both hands to operate the vehicle.

Interference

All two-way radios may be susceptible to interference from external sources, which can affect communication effectiveness.

Power-off in Hospitals

Please adhere to any relevant restrictions. Power off the two-way radio when in the vicinity of medical equipment.

Power-off on Aircraft

Please comply with any relevant restrictions. The use of two-way radios on an aircraft can interfere with the aircraft's operation.

Power-off during Refueling

Do not use the two-way radio inside fuel stations. Power off the two-way radio when near fuel or chemical substances.

Proper Usage

As described in the product documentation, only use the two-way radio in its designated positions. Avoid unnecessary contact with the antenna area.

Accessories and Batteries

Only use approved accessories and batteries. Do not use non-original accessories and batteries.

Make Backups

Remember to make backups of the programmed frequencies stored in the two-way radio

Qualified Maintenance Service

Only qualified technicians are allowed to install or repair this two-way radio.

Keep it Dry

Your two-way radio has precision-designed electronic circuits. Please keep it dry.

Connecting to Other Devices

Refer to the user manual of the connected device for detailed safety instructions. Do not connect incompatible products.

Familiarize with the Equipment

Power/Volume Switch

Turn clockwise until a "click" sound is heard to power on the two-way radio. Turn counterclockwise until a "click" sound is heard to power off the two-way radio. Adjust the volume by turning the switch left or right.

Antenna

The rubber antenna is used for signal reception and transmission.

Status Indicator

The red light illuminates during transmission, and the green light illuminates when a signal is received.。

Speaker

Outputs sound.

Microphone

Inputs sound.

LCD Display Screen

Displays the status of the two-way radio during operation.

SOS Button

Long press to initiate an SOS distress signal; short press to customize other functions.

Keypad

Used for entering frequencies and accessing functions.

Up/Down Selection

Adjusts the displayed frequency, menu number, or menu content by moving up or down.

PTT (Push-to-Talk) Button

Pressing the PTT button puts the two-way radio in transmit mode, and releasing it returns to receive mode.

Side Key 2, Side Key 3

The functions of the side keys can be customized through the menu.

Headphone Jack

Used for connecting external headphones or programming cables. The programming cable allows for frequency programming and firmware upgrades using PC programming software.

Attachment Installation

Installing the Battery:
Align the battery with the two small tabs on the bottom of the radio's casing. Press the battery towards the aluminum plate, and the small sliders on the upper left and right sides will click simultaneously, indicating that the battery is properly installed.

Removing the Battery:
On the upper left and right sides of the battery, there are two small sliders with arrow symbols. Press them downward simultaneously to remove the battery.

Installing the Belt Clip:
Remove the battery first. Align the smooth slot on the back of the battery with the belt clip, and press the belt clip downward to secure it in place.

Removing the Belt Clip:
Remove the battery first. Press down the elastic plastic piece in the middle of the belt clip and simultaneously pull it upward to remove the belt clip.

Installing the Antenna:
Hold the bottom of the antenna and rotate it clockwise into the antenna socket on the top of the radio until it is securely tightened.

Removing the Antenna:
To remove the antenna, simply rotate it counterclockwise and detach it from the antenna socket.

Battery Information

The battery is not charged when it leaves the factory. Please charge new or long-unused rechargeable batteries before use. Charging and discharging the battery for two to three cycles will optimize the battery capacity. When the battery power is low, recharge or replace the battery. Please use the designated batteries provided by Topcom for charging; using other batteries may result in explosions and cause bodily harm.

- Do not short-circuit the battery terminals or dispose of the battery in fire. Do not disassemble the battery pack casing without authorization.
- The ambient temperature during charging should be between 0°C and 40°C. Charging outside this range may affect proper battery charging.
- When charging, please turn off the power of the radio with the battery inserted. Using the radio while charging will interfere with proper battery charging.
- Avoid unplugging the power and battery during the entire charging process to prevent disruption to the charging procedure.
- Even after a full and proper charge, if the usage time is significantly reduced, it indicates that the battery's lifespan has ended. Please replace it with a new battery.
- If the battery is fully charged, do not remove and reinsert it for charging, as it may shorten or damage the battery pack's lifespan.
- Do not charge when the battery or radio is wet. Dry them with a cloth before charging to avoid any hazards.

When jewelry, keys, decorations, or other conductive metals come into contact with the battery electrodes, all batteries may cause damage to the items or bodily harm. These conductive metals may create a short circuit and generate significant heat. When handling any battery, especially when placing it in pockets, bags, or containers with other metallic objects, extra caution should be exercised.

Please follow the steps below for charging:

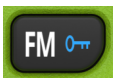
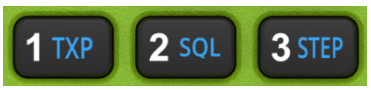
1.Plug the charger power plug into a 220V AC socket.
2.Place the battery or the radio with the battery inserted onto the charging dock, or connect the USB charging cable to the battery's USB port.
3.Confirm that the charging indicator turns red, indicating that charging has started.
4.Charging takes approximately 8 hours. When the indicator turns green, it indicates that the charging is complete.

Maintenance and Cleaning

1.Do not directly hold the antenna, earphone, or microphone.
2.Use a non-lint cloth to wipe off dust and dirt on the radio to prevent poor contact.
3.When the radio is not in use, cover the earphone jack with the plug cover.
4.After prolonged use of the radio, the buttons, control knobs, and casing may become dirty. You can clean them using a mild detergent (avoid using strong corrosive chemicals) and a damp cloth.

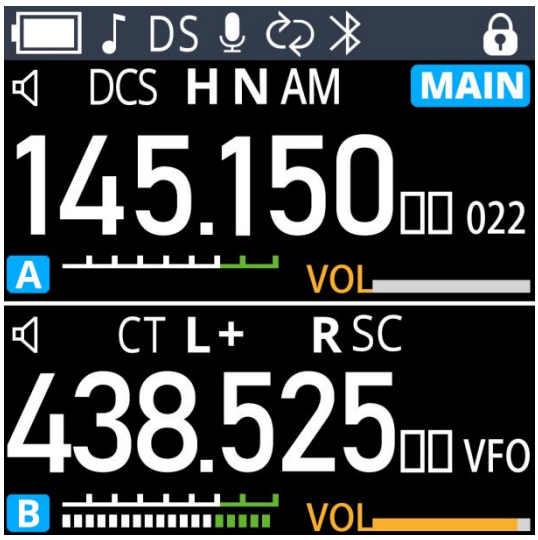
Key Descriptions

Symbol	Key Name	Function
	Menu Key	**In standby mode:** Short press: Enter the menu Long press: Switch frequency mode or channel mode
		In menu mode: Short press:Enter sub-menu, confirm selection
	Up/Down Keys	**In standby mode:** Short press: Adjust frequency up or down (based on selected frequency step) Long press: Rapidly adjust frequency up or down (based on selected frequency step) In channel mode:
		In channel mode: Short press: Select the next or previous channel Long press: Rapidly select the next or previous channel
		In menu mode: Short press: Select menu items up or down
		FM Key In FM mode: Short press: Adjust frequency up or down (0.1MHz) Long press: Rapidly adjust frequency up or down (0.1MHz)
	Back Key	**In menu mode:** Short press: Go back to the

		previous level or exit the menu
		In standby mode: Short press: Delete the last digit when entering frequency Long press: Switch channel display mode: channel name, channel frequency, channel number (can only be switched in channel mode)
	AB Key	**In standby mode:** Short press: Switch main frequency or main channel Long press: Activate scanning
		In FM mode: Short press: Activate FM scanning
	FM Key	**In standby mode:** Short press: Enter FM radio mode Long press: Lock/unlock the keypad
		In FM mode: Exit FM radio mode
	Number Keys	**In standby mode:** Directly input frequency
		In channel mode: Short press: Input 0-9 to quickly access the corresponding channel
		In menu mode: Short press: Input 0-9 to quickly access the corresponding function

	PTT Key	**In standby mode:** Long press: Transmit a call
		In scanning mode: Short press: Stop scanning
	Side Key 2	**In standby mode:** Short press: Custom function (set through the menu) Long press: Custom function (set through the menu)
	Side Key 3	**In standby mode:** Short press: Custom function (set through the menu) Long press: Activate squelch
	SOS 键	**SOS Key In standby mode:** Short press: Custom function (set through the menu) Long press: Initiate an SOS emergency call

Screen Display Icons



Icon	Function	Description
	Battery	Displays the remaining battery power. When the battery is about to run out, the outer frame of the symbol flashes, and the transceiver prohibits transmission.
	Tone	Enables side tone, indicating that the transceiver emits a tone when transmitting DTMF signals.
	DS	Enables dual-band standby function, which can simultaneously monitor the two frequencies or channels displayed in standby mode.
	VOX	Enables voice-activated transmission function, which activates transmission when the microphone's sound pressure level reaches the set value.

	Scan	Scanning mode.
	Bluetooth	Enables Bluetooth transmission mode.
	Keyboard Lock	Keyboard is locked. Press and hold the FM key to unlock.
	Watch	Enables watch mode.
	DCS	Indicates the current sub-audible tone is a digital sub-audible tone. When transmitting, this symbol appears, indicating the transmission of a digital sub-audible tone signal.
	CT	Indicates the current sub-audible tone is an analog sub-audible tone. When transmitting, this symbol appears, indicating the transmission of an analog sub-audible tone signal.
	H	Current transmission power is high power.
	L	Current transmission power is low power.
	N	Indicates that the channel is operating in narrowband mode.
	+	Indicates the transmission frequency is the receive frequency plus an offset frequency.
	-	Indicates the transmission frequency is the receive frequency minus an offset frequency.
	AM	Indicates the current frequency is in AM modulation mode.
	R	Receive and transmit frequencies are inverted in frequency

		mode/channel mode.
T	T	Off-network mode, the transmit and receive frequencies are adjusted to the same.
SC	SC	Special voice encryption status/frequency hopping function.
MAIN	MAIN	Main frequency or channel.
A B	A Segment, B Segment	Indicates the respective frequency segment.
	Transmit Signal Strength	Current strength of the transmitted signal.
RSSI	Received Signal Strength	Current strength of the received signal.
VOL	Modulation Level	Current amplitude of the transmitted audio.
VFO	VFH	In frequency mode.
022	001-256	In channel mode.
	Selected	Menu selected item.

Main Functions

Power On/Off

1. Rotate the power knob in a clockwise direction to turn on the power of the transceiver.

2.To turn off the power of the transceiver, rotate the power knob in a counterclockwise direction.

Adjusting the Volume

Rotate the volume control knob clockwise to increase the volume and counterclockwise to decrease it. If you cannot hear background noise due to the squelch function, press and hold the "Side Key 3" while turning the volume control knob to hear the background noise.

Selecting a Frequency

Press the "Up" key to increase the frequency and the "Down" key to decrease it.

If you are unable to select a specific frequency, you may need to change the frequency step size. Please refer to the section on changing the frequency step size.

You can also directly enter the desired frequency using the numeric keypad. Please refer to the section on direct keypad input.

Transmission

1.When you are ready to transmit, hold down the "PTT" (Push-to-Talk) key and speak in a normal tone.

- The transmit indicator will light up in red.
- If you are too close to the microphone or speak too loudly, it may cause distortion and reduce the clarity of your signal at the receiving end.
- Selecting a lower power level conserves more battery power without affecting the communication range. You can choose between high and low power settings.

2.When you finish speaking, release the "PTT" key and prepare to receive

the other party's signal.

Key Lock Switch

In standby mode, press and hold the "FM" key for 2 seconds to toggle the key lock switch.

VOX Transmission

1.Set the VOX voice activation sensitivity and VOX voice deactivation delay time through the menu. (VOX sensitivity: Level 1 is the highest and requires the maximum voice energy to trigger transmission; Level 9 is the lowest.)

2.When using an inserted headset, speak into the headset microphone, and if the sound intensity is sufficient, transmission will occur.

Monitor Mode

Press and hold "Side Key 3" to enter monitor mode (instantaneous squelch open).

Operating Modes

Frequency Mode

In standby mode, press and hold the "Menu" key to switch to FR mode. You can use the "Up" and "Down" keys to change the frequency or directly enter the desired full-frequency frequency using the numeric keys.

Channel Mode

In standby mode, press and hold the "Menu" key to switch to CH mode. In this mode, you can use the "Up" and "Down" keys to change the channel number or directly enter the desired channel using the numeric keys. At least one memory channel needs to be programmed; otherwise, you cannot enter this mode.

In channel mode, press and hold the "Back" key to switch between channel name mode, channel frequency mode, and channel number mode.

AM Mode

When the operating frequency is between 108-136MHz, the device automatically enters AM aviation reception mode, and the channel status displays AM. This mode is mainly used to receive AM modulated signals.

Menu Mode

Press the "Menu" key, and then use the "Up" and "Down" keys to select the desired menu option.

Dual PTT Mode

By selecting menu item 40, you can set "Side Key 2" as PTT2, enabling dual PTT mode. Press the PTT key to transmit segment A, and press "Side

Key 2" to transmit segment B.

Radio Mode

Press the "FM" key in standby mode to enter radio mode. In this mode, you can use the "Up" and "Down" keys to change the radio frequency or directly enter the desired frequency. Pressing "AB" briefly will search for the next frequency point. Press the "FM" key again to exit radio mode.

Menu Function List

Press the "Menu" key to enter menu mode. Use the "Up" and "Down" keys to select the corresponding menu or directly enter the menu number (1-54) to quickly access the desired menu.

Number	English Menu	Submenu (Optional)	Menu Description
0	ROGER	Off	Turn off the end of call prompt.
		BEEP	Default end of call prompt.
		DC1200	Distinctive signaling tone.
1	POW	High Power	Transmit at high power for the current frequency or channel.
		Low Power	Transmit at low power for the current frequency or channel.
2	SQL	0-9	0-9 squelch levels, with lower levels being more susceptible to interference and higher levels reducing sensitivity. Recommended setting: 5.
3	STEP	2.5K、5K、6.25K、10K、12.5K、20K、25K、30K、50K	Change the frequency step value when pressing the "Up" or "Down" keys in frequency mode.
4	S-D	Off	urn off the frequency difference between transmit and receive frequencies in frequency mode. Default setting.

		-(Negative)	The transmit frequency equals the receive frequency plus the frequency difference. Generally used for upper relay stations.
		+(Positive)	The transmit frequency equals the receive frequency minus the frequency difference. Generally used for lower relay stations.
5	SET	00.000~99.995, directly input from the keypad	Enable or disable the frequency difference between transmit and receive frequencies in frequency mode. The frequency difference is controlled by the frequency difference direction setting.
6	R-CDC	Off	Turn off the analog subtone (press 0 in the subtone frequency selection list to quickly disable).
		67.0~254.1	Select standard sequences of analog subtone using the up and down keys or enter non-standard subtone frequencies directly on the keypad.
7	T-CDC	Off	Disable analog subtone

			(press 0 in the subtone frequency selection list to quickly disable).
		67.0~254.1	Select standard sequences of analog subtone using the up and down keys or enter non-standard subtone frequencies directly on the keypad.
8	MEN-CH	001~256	In frequency mode or channel mode, select the channel number to store. If "CH" is displayed, it means the channel has already been stored and will be overwritten.
9	TDR	On	Enable simultaneous monitoring of two frequencies or channels.
		Off	Only monitor the main frequency or channel with the "MAIN" icon.
10	TX-A/B	Off	Select the frequency or channel based on the "MAIN" icon for transmission.
		A	Transmit only on the frequency or channel of segment A, regardless of the "MAIN" icon selection.
		B	Transmit only on the frequency or channel of segment B, regardless of

			the "MAIN" icon selection.
11	MDF-A	Channel Name	Display the name of the channel in channel mode.
		Channel Frequency	Display the frequency of the channel in channel mode.
		Channel Number	Display the channel number in channel mode.
12	MDF-B	Channel Name	Display the name of the channel in channel mode.
		Channel Frequency	Display the frequency of the channel in channel mode.
		Channel Number	Display the channel number in channel mode.
13	R-DCS	Off	Disable digital subtone (press 0 in the subtone frequency selection list to quickly disable).
		D023N~D754I	Select standard sequences of digital subtone using the up and down keys.
14	T-DCS	Off	Disable digital subtone (press 0 in the subtone frequency selection list to quickly disable).
		D023N~D754I	Select standard sequences of digital subtone using the up and down keys.
15	SCAN CTCSS	Enable Scan	Only available in frequency mode.
16	SCAN DCS	Enable Scan	Only available in

			frequency mode.
17	CDCSS SAVE MODE	All	Scan all subtone frequencies.
		Receive	Scan only receive subtone frequencies.
		Transmit	Scan only transmit subtone frequencies.
18	SCAN ADD	Add	If the current channel needs to be included in the scan, set the current channel to "Add" status.
		Delete	If the current channel does not need to be included in the scan, set the current channel to "Delete" status.
19	CH-MAME	System Default: Channel 1-Channel 10, Workgroup 1-Workgroup 10, Relay 1-Relay 10	Choose a name for the current channel or customize it through programming software.
20	DELCH	001-256	Delete the stored information of the current channel. If "CH-001" is displayed, it means the channel has been stored. If "001" is displayed, it means the channel is free and no information is stored. The operation will be ineffective.
21	BEEP	Off	No tone after receiving.

		GSTAR	The transmitting device has enabled end-of-transmission tone suppression. In this case, the receiving device will receive the tone associated with the analog GSTAR signaling. If the tone suppression is not enabled on the transmitting device, the receiving device will prioritize receiving the unfiltered noise from the transmitting device.
22	RP-STE	1-10s	Adjust the value to eliminate noise during the relay transmission when the sender releases the PTT key and the receiver immediately receives the relayed signal due to the delay of the relay. Find a value that eliminates the noise during the relay transmission.
		Off	If you want to hear this noise to confirm whether the repeater is functioning, you can disable this menu option.
23	TAIL PHASE	None	Default: 90 degrees

		Options: 120 degrees, 180 degrees, 240 degrees	Choose the corresponding phase based on the relay station to resolve the tail tone noise.
24	RPT-RL	1-10s	When relaying signals through a relay station, to confirm if the relay station has relayed the signal, utilize the delay time when the relay station stops transmitting. This allows the local machine to confirm that the signal has been relayed. This menu is used to adjust the duration of this noise.
		Off	If you don't need this noise, you can turn off this menu.
25	S-CODE	1-15	Select from 1 to 15 signal options.
26	DTMF CODE	Off	Disable DTMF code transmission.
		PTT Key	Transmit DTMF code by pressing the PTT key.
		Simultaneous	Transmit DTMF code when pressing and releasing the PTT key simultaneously.
		Release PTT	Transmit DTMF code by releasing the PTT key.
27	DTMFST	Off	When transmitting, pressing keys to transmit DTMF codes does not

			produce any sound.
		Key + Identity Code	When transmitting, pressing keys to transmit DTMF codes produces sound for the transmitted code.
		Identity Code	When transmitting, automatic transmission of DTMF codes produces sound for the transmitted code.
		Key Sidetone:	When transmitting, both pressing keys to transmit DTMF codes and automatic transmission produce sound for the transmitted code.
28	TONE	1000hz	
		1450hz	
		1750hz	
		2100hz	
29	PTT-LT	0Ms 、 100Ms 、 200Ms、400Ms、600Ms、800Ms、1000Ms	Delay time before automatic code transmission.
30	VOX	Off	Disable voice-activated transmission.
		Level 1-9	Activate voice-activated transmission with different sensitivity levels. Level 1 is the most sensitive, and level 9 is the

			least sensitive.
31	VOX DELAY	0.5sec~2.0sec	Range: 0.5 to 2.0 seconds, with 0.1-second increments.
32	VOICEPRI	Off	Disable encryption, allowing compatibility with standard analog systems.
		Encryption 1, Encryption 2, Encryption 3	Enable frequency hopping and select encryption groups. Both parties must use the same encryption group for communication. Enabling encryption will disable relay functionality.
33	TOT	Off	Disable transmission time-out.
		30 seconds, 60 seconds, 120 seconds, 240 seconds, 480 seconds	Maximum time for pressing the PTT key to transmit.
34	W/N	Wideband	Operate in wideband mode.
		Narrowband	Operate in narrowband mode.
35	BCL	Off	Disable busy channel lockout.
		On	Enable busy channel lockout.

36	STE	Off	After releasing the PTT key, the machine does not generate a shutdown tone. Usually, when relaying through a repeater, this noise is present to confirm whether the signal has been relayed.
		On	After releasing the PTT key, the machine generates a shutdown tone, suppressing momentary noise from the receiving end.
37	SC-REV	Time	Time-based scanning mode. When a signal is detected, the radio pauses scanning for approximately 5 seconds before resuming scanning, even if the signal is still present.
		Carrier	Carrier-based scanning mode. When a signal is detected, the radio pauses scanning and remains on the same frequency until the signal disappears. There is a 2-second delay between signal disappearance and scanning resumption to

			allow time for the response to begin transmitting.
		Search	Search-based scanning mode. When a signal is detected, the radio exits scanning and remains on that frequency.
38	SAVE	Off	Disable power-saving mode.
		Normal	Normal power-saving mode.
		Super	Super power-saving mode.
		Extreme	Extreme power-saving mode.
39	AL-MOD	Send Alarm Code	Pressing the SOS key only sends an alarm code.
		Send Alarm Tone	Pressing the SOS key sends an alarm tone.
		Local Alarm	Pressing the SOS key triggers the local alarm sound.
40	PF2	Frequency Sweep	Scan frequencies and sub-audible tones.
		Scan	Scan frequencies or channels.
		Power Output	Switch between high power and low power.
		Radio	Enable FM radio function.
		Weather Forecast	Enable weather forecast

			function.
		PTT B	Set Side Key 2 as the dedicated B-band transmit key.
41	PF2 LONG PRESS	Frequency Sweep	Scan frequencies and sub-audible tones.
		Scan	Scan frequencies or channels.
		Weather Forecast	Enable weather forecast function.
		Power Output	Switch between high power and low power.
		Radio	Enable FM radio function.
		Alarm	Activate alarm function (same as SOS key).
42	PF3	Reverse Frequency	Toggle receive and transmit frequencies in frequency or channel mode; switch between off-network mode where transmit and receive frequencies are the same.
		DTMF	Enter DTMF code transmission mode.
		Weather Forecast	Enable weather forecast function.
		Frequency Sweep	Scan frequencies and sub-audible tones.
		Radio	Enable FM radio function.
		Power Output	Switch between high power and low power.
		Scan	Scan frequencies or channels.

43	TOP KEY	Reverse Frequency	Toggle receive and transmit frequencies in frequency or channel mode; switch between off-network mode where transmit and receive frequencies are the same.
		DTMF	Enter DTMF code transmission mode.
		Weather Forecast	Enable weather forecast function.
		Frequency Sweep	Scan frequencies and sub-audible tones.
		Radio	Enable FM radio function.
		Power Output	Switch between high power and low power.
		Scan	Scan frequencies or channels.
44	ABR	Constant On	Backlight remains continuously on, without automatic shutdown.
		5s、10s、15s、20s、30s、1min、2min、3min	Select a duration after which, without any operation, the system automatically shuts off the backlight.
45	VOICE	On	Enable Chinese voice prompts during menu operations.
		Off	Disable Chinese voice prompts during menu operations.

46	BEEP PROMPT	On	Enable "beep" prompts for keypad operations.
		Off	Disable "beep" prompts for keypad operations.
47	MENU EXIT TIME	5s、10s、15s、20s、25s、30s、35s、40s、45s、50s、60s	Select a duration after which, without any operation, the system automatically exits to the standby mode.
48	AUTOLOCK	Off	Disable automatic keypad lock; keypad remains unlocked.
		5s、10s、15s	Select a duration after which, without any operation, the system automatically locks the keypad. Only PTT, Side Key 2, and Side Key 3 remain functional. Press and hold the FM key to unlock.
49	POWER ON MSG	Default Icon	Displays the default Talkpod logo.
		Battery Voltage	Displays the current battery voltage.
50	LANGUAGE	中文(Chinese)	菜单显示为中文
		ENGLISH(英语)	Menu is displayed in English.
51	ANI NAME	Default: System Default: HAM1-HAM10	Choose a name for the unit or customize it using programming software, including call sign.
52	Instructions	View Instructions	Displays a QR code that can be scanned with a

			smartphone to access the user manual for the current model.
53	RESET	Frequency Mode	Clears all channels but retains previously set function options.
		All	Clears all channels and function settings, restoring the device to its initial state.
54	VERSION	Version Information	Displays the current software version.

Tips:

- The menu adopts a single-level menu mode. When entering the menu, you need to switch to "MAIN" to indicate whether you want to set option A or option B.

- When dual PTT mode is enabled (with "Side Key 2" already set as PTT2 by default), even if "MAIN" is displayed in option B, pressing the PTT key will transmit on option A frequency.

- For any option with a numeric value, you can directly input the number on the keypad to quickly select it. If there are only "On" and "Off" options, 1 represents "On" and 2 represents "Off".

- Prior to software version 1.16, there may be slight differences in the text, order, and function options of some menus. Please interpret the meaning based on the literal understanding as there are no significant differences.

Function Description

Alarm Function

Press and hold the "SOS Key" for 2 seconds to activate the alarm function. During the alarm, if a transmission frequency is set for the channel, the radio will automatically transmit.
To exit the alarm state, press the "PTT Key".

Dual PTT Function

When "Side Key 2" is set to PTT B, the radio enters dual PTT mode. Pressing PTT will transmit on option A, and pressing PTT B will transmit on option B.

- Set this function through menu item 40.

Scan Function

The scan function can be set using menu item 40 ("Side Key 2 Short Press"), menu item 41 ("Side Key 2 Long Press"), and menu item 42 ("Side Key 3 Short Press").

When in scan mode, press the "Menu Key" to switch between various frequency bands such as UHF (400-520MHz), VHF (136-174MHz), 200 (200-260MHz), 350 (350-400MHz), etc.
When the transceiver is within the effective range, press and hold the PTT key to quickly display the frequency and sub-audio.
After displaying the frequency and sub-audio on the screen, press the "Menu Key" again to store it.
Select the channel number to store by using the up and down keys. If "CH" is displayed, it means that it has already been stored and will directly

overwrite the current channel.

Sub-audio

CTCSS (Continuous Tone Coded Squelch System)
is a technology that adds a frequency (67-254.1Hz) lower than the audio frequency to the audio signal for transmission. It is also known as sub-audio because its frequency range is below the standard audio, i.e., less than 300Hz.

CDCSS (Cont inuous Digital Coded Squelch System)
is a continuous digital coded squelch system that serves the same purpose as CTCSS but uses digital encoding as the condition for determining whether the squelch is open. It consists of a fixed code group that is continuously transmitted. It is also called sub-audio digital or digital sub-audio because its frequency is also below 300Hz.

◉ In the non-standard analog sub-audio editing state, non-standard sub-audio can be directly input.

FM Radio Function

Press the "FM Key" to activate the FM radio function, and the screen will display the current frequency.
Use the "Up" and "Down" keys to adjust the radio frequency, or directly input the frequency using the keypad (frequency range: 65.000~108.000MHz). Pressing the "A/B Key" while in radio mode will enter the auto search mode.
Press the "FM Key" again to exit the FM radio mode.

Tone Function

While transmitting using the PTT key, simultaneously press Side Key 3 for the tone audio call function. The radio will transmit audio in the range of 1000-1750KHz. Release the monitoring key to exit.

- Set this function through menu item 28.

Scan Function

Before using the scan function, you must first determine how the radio should continue scanning after detecting a signal. You can choose one of the following modes:

Tone Operated (TO) Mode:

The radio stops scanning and remains on the same frequency when it detects a signal. After staying in the stopped state for approximately 5 seconds, even if the signal is still present, the radio will continue scanning.

Carrier Operated (CO) Mode:

The radio stops scanning and stays on the same frequency when it detects a signal. It will continue scanning once the signal disappears. There is a 2-second delay between the signal disappearance and the resumption of scanning to allow time for response transmission.

Search (SE) Mode:

The radio exits scanning and stays on the frequency when it detects a signal.

- In scan mode, you can use the "Up" and "Down" keys to change the scanning direction.

DTMF

Enter the DTMF code editing interface and enter the desired DTMF code using the keypad. If the code is less than 6 digits, press the FM key to end

the input.
After completing the input, press the PTT key to transmit the code.
In editing mode, a short press of Side Key 3 deletes the code. To exit the DTMF editing mode, press Side Key 3 again when the code is empty.
The corresponding codes are as follows:

0-9						
0-9	A	B	C	D	*	#

◉ Customizing the short press of Side Key 3 to quickly enter DTMF mode is only supported through menu item 42.

Weather Forecast

In severe weather conditions such as heavy storms or hurricanes, the National Oceanic and Atmospheric Administration (NOAA) will issue weather alerts and an audio tone at 1050 Hz, followed by subsequent weather reports on the NOAA weather channel.

International Standard Frequency Table:

1	162.550MHz	6	162.500MHz
2	162.400MHz	7	162.525MHz
3	162.475MHz	8	161.650MHz
4	162.425MHz	9	161.775MHz
5	162.450MHz	10	163.275MHz

◉ This feature is only available in certain countries.

◉ You can customize the settings for Side Key 2 and Side Key 3 to quickly enter the weather forecast mode through menu items 40-42.

◉ Use the WXtoImg software to demodulate, decode, and convert the received signal into satellite cloud images.

Squelch Function

The principle of setting the squelch level depends on the environment and requirements of use.

When longer communication distances are required, and the received signal becomes weaker, it is necessary to increase the receiver sensitivity and decrease the squelch level.

For example, set the squelch level to 1.

When shorter communication distances are used, and the received signal is stronger, the receiver sensitivity can be reduced, and the squelch level increased to reduce background noise.

For example, set the squelch level to 9.

If intermittent reception or loss of audio occurs during a conversation, it indicates a weak received signal or changes in communication distance. In such cases, lowering the squelch level can improve sensitivity.

For example, if the squelch level is set to 8, it can be adjusted to 2.

Common Issues

Issue Description	Reason Description
No receive end tone function	This function is not available in software versions prior to V1.13. If needed, you can upgrade to software version V1.14 or later.
No DC1200 signaling end tone on the repeater.	The repeater failed to decode the signaling. Please confirm if the repeater has disabled the decoding function.

Troubleshooting

Fault Description	Analysis	Solution
Failure to power on.	Battery may be incorrectly installed.	Remove the battery and reinstall it.
	Battery may be depleted.	Remove or replace the battery.
	Poor battery contact due to dirt or damage.	Clean the battery contacts. If the issue persists, contact your dealer or authorized service center for inspection and repair.
Weak, intermittent, or no sound during reception.	Low battery voltage.	Charge or replace the battery.
	Low volume.	Increase the volume by rotating the volume control knob.
	Loose or improper antenna installation	Reassemble the antenna properly after turning off the radio.
	Speaker may be blocked or damaged.	Clean the speaker surface. If the issue persists, contact your dealer or authorized service center for inspection and repair.
Unable to communicate with other members.	Frequency or signaling settings may be inconsistent with other members in the group.	Set the same frequency and signaling as other members in the group.
	Too far away from other members in the group.	Get closer to other members.

Other call sounds or noise appear in the channel.	Interference from other users on the same frequency.	Change to a new frequency or adjust the squelch level.
	No sub-audible signaling set.	Set sub-audible signaling for all radios in the group to prevent interference. However, the signaling settings must be changed on all handheld terminals within the group.
Excessive background noise.	Too far away from other members during communication.	Get closer to other members.
	Poor location, such as being obstructed by tall buildings or being in a basement.	Move to an open and flat area, then retry powering on.
	Interference from external environment or electromagnetic sources.	Avoid devices that may cause interference.

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