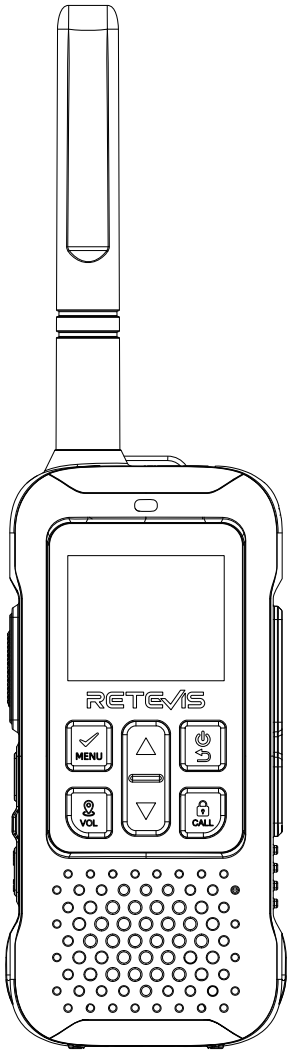
RETEVIS



EZTalk 5

User Manual

Contents

For downloading further resources:
Brochures, Software/Firmware, Manual etc, Please contact your direct reseller first OR go to website retevis.com and check “support” in the each product link to download it.

Important Notice to Users

Unboxing Inspection

Before use, please open the packaging box and carefully inspect the host unit and included accessories. If any items are missing or damaged during transportation, please contact the delivery personnel or dealer immediately.

Battery Information

Charging Precautions

Charge new batteries or batteries that have not been used for an extended period before initial use. Performing two or three charge/discharge cycles will optimize battery capacity. When low battery power is detected, charge or replace the battery.

Compatible Battery Types

Use only batteries specified by the manufacturer. Using other batteries may cause explosion, resulting in injury.

Note:

1. Do not short-circuit the battery terminals or dispose of batteries in fire. Do not disassemble the battery pack casing.
2. The ambient temperature during charging should be between 0°C and 40°C. Charging outside this range may affect proper charging.
3. Turn off the radio power during charging. Using the radio while charging may interfere with proper battery charging.
4. Avoid unplugging the power adapter or removing the battery during the charging process, as this may disrupt the charging program.
5. If the usage time is significantly reduced even after a full charge, it indicates the battery has reached the end of its life and should be replaced.
6. Do not disconnect and then reconnect a fully charged battery for additional charging, as this may shorten battery life or cause damage.
7. Do not charge wet batteries or radios. Dry them with a cloth before charging to avoid hazards.
8. Eliminating the Risk, keep away from the flammable materials,heat sources and ignition sources while a battery is charged. Charging should only take place in a well ventilated area and when someone is about to be aware and react to a potential issue.
9. To reduce risk of fire, a battery should not be charged for more than 3 hours and disconnect charger from line voltage (AC outlet) by removing main plug even if the batter is not completely charged.Don't leave a device unattended while charging. Disconnect the charger when the device is fully charged: do not overcharge the device.

Warning:

All batteries can cause damage or injury if conductive materials like jewelry, keys, or chains touch the terminals. These items can short-circuit the battery, generating significant heat. Handle all batteries with care, especially when placing them in pockets, bags, or containers with metal objects

Charging Procedure

1. Plug the provided adapter (standard output 5V DC) into a power outlet.
2. Place the radio with the battery installed onto the charging dock.
3. Ensure the battery contacts the charging pins correctly. The charger indicator will turn red, indicating charging has started. For Type-C charging, insert the Type-C plug into the Type-C charging port on the right side of the radio. A green battery icon on the display indicates a full charge.
4. When the charger indicator light turns green, charging is complete. You can now remove the battery or radio for use.

Note: Do not use the radio while charging. Ensure the radio is turned off during charging.

Maintenance and Cleaning

1. Do not hold the radio by the antenna or external microphone.
2. Wipe dust and stains from the radio with a lint-free cloth to prevent poor contact.
3. When the radio is not in use, keep the earphone jack cover closed.
4. After prolonged use, the keys, control knobs, and casing may become dirty. Clean them with a mild detergent (do not use strong corrosive chemicals) and a damp cloth.

I. Getting Started

Installing the Antenna

1.Place the antenna onto the antenna connector and turn it clockwise to tighten.

Installing the Battery

1. Place the battery into the battery compartment.
2. Tighten the two screws clockwise to close the battery cover securely.

Note: Tighten all screws when installing the battery to ensure waterproof performance.

Radio Battery Level

1. Full battery bars 【  】 indicate sufficient power. When the battery indicator 【  】 shows zero bars, the device enters low-battery mode, issuing warnings via a low-battery alert tone and a battery icon.

Power On/Off

1. Press and hold the 【  】 key to turn the radio on or off.

Volume Adjustment

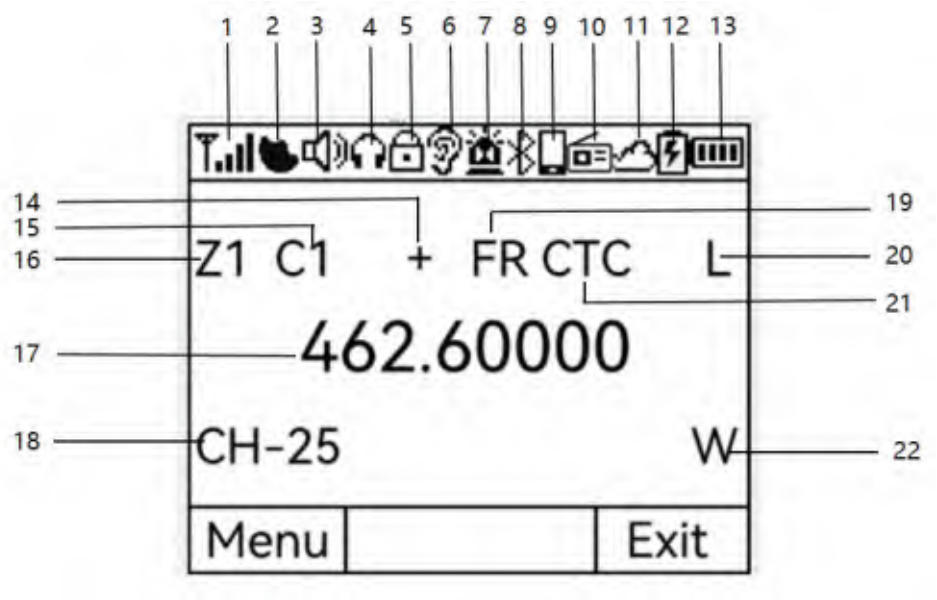
1. In standby mode, briefly press the 【  】 key to enter the volume adjustment interface. Use the Up“ △ ”and Down“ ▽ ”keys to adjust the volume level.

Making a Call

1. For communication, all radios in your group must be set to the same channel frequency and sub-tone code.
2. During a call, the transmitting radio should press and hold the [PTT] key to speak.

The screen will display "A BAND TX" or "B BAND TX", and the red LED will light up. Simultaneously, the receiving radio's screen will display "A BAND RX" or "B BAND RX", and the green LED will light up. For optimal call quality, hold the microphone 3-5 cm from your mouth while speaking.

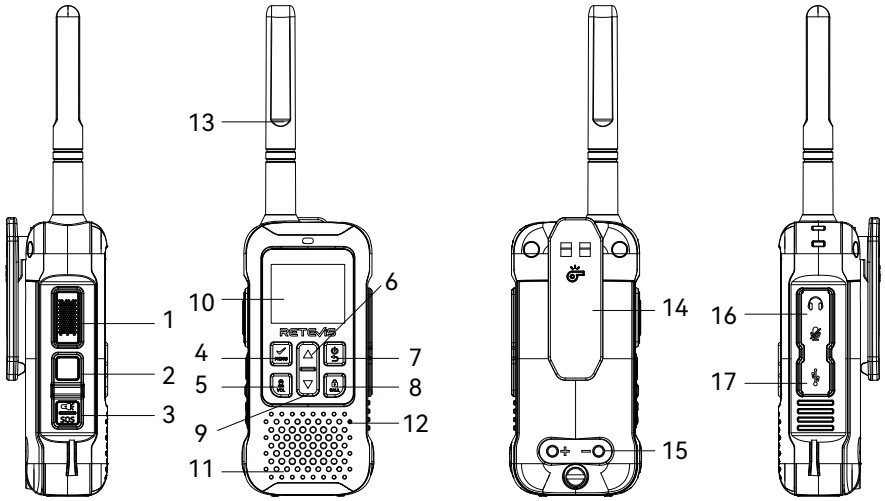
II. Screen Display



NO.	Icon/Text	Description
1		Signal Strength. Indicates current signal level for judging communication quality.
2		GNSS enabled, scanning for satellites.
		Successfully connected to one or more satellites.
3		Speaker. Indicates audio is being received/output.
4		Headset. When a headset is plugged in, audio automatically switches to headset output.
5		Keypad Lock. Indicates all keys except PTT and SOS are locked.

NO.	Icon/Text	Description
6		Scanning enabled, radio scans between added channels.
		Monitor mode enabled, receives all traffic on the current channel.
		Voice Operated Transmit (VOX) is activated.
7		Alarm. Activated by the alarm key, emits an alarm sound or sends an emergency signal.
8		Bluetooth Connection Status. Blue: Connected. Black: Not connected.
9		Bluetooth Phone Connection. Blue: Connected to phone. Black: Not connected.
10		FM Radio. Enabled, receiving or broadcasting FM audio.
11		NOAA Weather Alert Icon
12		Charging Icon. Red lightning: Charging. Green: Fully charged.
13		Battery Level Icon
14	+	"+": Transmit frequency > Receive frequency.
	–	"–": Transmit frequency < Receive frequency.
15	C1	Channel Number within the current Zone.
16	Z1	Zone Number. "Zx": Represents the x-th zone in the zone list.
	ALL	"ALL": All Channels mode.
17	Frequency	Channel Information Display Area (Frequency, Channel Number, Channel Name).
18	CH25	Channel Number.
19	FR	"FR": Reverse Frequency.
	TA	"TA": Talk Around.
20	L	"L": Low Power
	H	"H": High Power
21	CTC	Type: CTC\DCS\DCSI
22	W	“W”: Wide (25KHz)
	N	“N”: Narrow (12.5KHz)

III. Knowing Your Radio



1. PPT KEY
2. Side key 1
3. SOS/Flashlight
4. Menu/Confirm Key
5. VOL/LOC Key
6. Up/Channel+ Key
7. Back/Power Off Key
8. CALL/Key Lock
9. Down/Channel- Key
10. LCD display
11. Speaker
12. MIC
13. Antenna
14. Belt clip
15. Desktop charging port
16. Earphone Jack
17. Type-C Charging/Data Port

Key Functions

1. 【PTT】Key (Push-To-Talk)
Press and hold to transmit; speak into the microphone. Release to receive.

2.【 】K1Key (Programmable)
Default: Short Press = Scan On/Off; Long Press = VOX On/Off.
Customizable via Menu: Off, Scan, Power Level (H/L), Monitor, VOX, Talk Around, Reverse, A/B Band, One-Key CTCSS/DCS Off .

3. SOS/Flashlight
Long Press: Activate emergency alarm. Short Press (during alarm): Cancel alarm. Short Press (normal): Toggle flashlight on/off.

4.【MENU】Menu/Confirm Key
Short Press (Standby): Enter main menu. Short Press (in Menu): Confirm selection.

5.【VOL】VOL/LOC Key
Short Press (Standby): Enter volume setting. Long Press (Standby): Location function (e.g., send location).

6.【 】“Up/Channel+ Key”
Short Press (Standby): Cycle up through channels/frequencies. Short Press (Menu): Cycle up through menu options.

7.【 】Back/Power Off Key
Short Press: Return to previous menu level. Long Press: Power the radio On/Off.
A/B Band、Weather Alerm

8.【CALL】CALL Key/Lock Key
Short Press (Standby): Send Call Tone. Long Press (Standby): Toggle Keypad Lock (locks all keys except PTT & SOS). Long press again to unlock.

9.【 】“Down/Channel- Key”
Short Press (Standby): Cycle down through channels/frequencies.
Short Press (Menu): Cycle down through menu options.

IV. Menu Overview

Main Menu	Sub-menu	Sub-submenu	Description
Main Set	Display Mode	/	Frequency, Name, Channel Number
	Squelch	/	0 = Squelch Open
	Band	/	Single/Dual Watch, A/B Band Switch
	Back Light Level	/	Level 1-5
	Back Light Time	/	Always On(0)、3s、6s、9s、12s、15s、18s、21s、24s、27s、30s、1min、2min、3min、4min、5min
	Call Light	/	Screen On for Incoming Call
	GNSS	GNSS	GPS On/Off、GPS Mode Selection、GPS Positioning Information、Share Location、GPS Message Receive List
		GNSS Info	
		Share Position	
		List Information	
	Key Function	SK1 Short Press	Customize SK1 Short Press/Long Press Action
		SK1 Long Press	
	Audio	Audio Enable	TX Tone, Key Beep, Roger Beep
		Mic Gain	Microphone Gain (0-5)
	VOX Switch	/	VOX On/Off
	VOX Delay	/	500ms、1s、1.5s、2s
	VOX Level	/	Sensitivity Level 1-9
	Power Save	Power Save Level	Power Save Level (1:1，1:2，1:4，OFF)
		Power Save Delay	Delay before Power Save:5s、10s、15s、20s、25s、30s、1min、3min、5min、10min、15min、20min、25min and 30min。

Main Menu	Sub-menu	Sub-submenu	Description
Main Set	Menu Timeout	/	Auto-exit Menu Time
	Low Battery Alarm	/	Low Battery Alert Setting
	Single Tone	/	1000Hz、1450 Hz、1750 Hz、2100 Hz
	Work AloneTime	/	Off、5min、10min…55min、60min
	TOT Again Time	/	Off、5s、10s、15s、20s、25s、30s
	All CTCDC Switch	ALL CTC Open	Enable/Disable All Channel CTCSS/DCS
		ALL CTC Close	
	Radio Information	/	Radio Info
Zone	All Channels	Select Zone	Select All Zones
	Zone_xxx	Select Zone	Select Specific Zone
		Edit Channel	Edit Channels in Zone
		Delete Zone	Delete Specific Zone
	+Add Zone+	Add Zone CH	Add Channels to New Zone
		Save Zone	Save Zone Information
Channel	Channel Info	/	Specific Channel Parameters
	Bandwidth	/	Wide 25KHz, Narrow 12.5KHz
	C-CDC	/	Multiple CTCSS/ DCS Options
	R-CDC	/	
	T-CDC	/	
	TX Power	/	High, Low
	TxOutTime	/	Infinite、5~300 seconds
	TxPermit	/	Always Allow、Receive Only、Channel Free、CTC/DCS Mismatching
	Talkaround & Reversal	/	Talk Around、Reversal、Close

Main Menu	Sub-menu	Sub-submenu	Description
Main Set	Menu Timeout	/	Auto-exit Menu Time
	Low Battery Alarm	/	Low Battery Alert Setting
	Single Tone	/	1000Hz、1450 Hz、1750 Hz、2100 Hz
	Work AloneTime	/	Off、5min、10min…55min、60min
	TOT Again Time	/	Off、5s、10s、15s、20s、25s、30s
	All CTCDC Switch	ALL CTC Open	Enable/Disable All Channel CTCSS/DCS
		ALL CTC Close	
	Radio Information	/	Radio Info
Volume	Volume Set	/	Volume Level 0-7 (0=Mute)
FM Radio	FM Radio	/	FM Radio Function
Call Tone	Tone	/	10 Call Tone Options
Siganling	PTT ID	/	Select All Zones
Scan	Channel Scan Set	Scan Condition	Scan Criteria: Carrier or CTCSS/DCS. When set to Carrier, the radio will not check for sub-audio tones.
		Scan Mode	Scan ModeCarrier, Time, Search
		TX Mode Set	TX Mode Set: Selected、Last Active Channel、Designated Channel
		Designated Channel	Designated Channel Selection—used when the transmission mode is set to “Designated Channel.”
		Priority Channel 1	Preferred Scan Channel 1 Setting

Main Menu	Sub-menu	Sub-submenu	Description
Scan	Channel Scan Set	Priority Channel 2	Preferred Scan Channel 2 Setting
		Channel List	Display of Scan List
		Hang time	1 to 16 seconds
Emergency	Alarm Channel Type	/	Alarm channel type selection: Current channel, Designated channel. Upon selecting 'Designated channel', alarms will be sent via the channel chosen in the 'Designated Channel' menu.
	Alarm Mode	/	Alarm Mode: Local Alarm, Remote Alarm
	Designated Channel	/	Specified Alarm Channel Selection: Applicable when the alarm transmission type is set to "Designated Channel".
Weather	Weather Alarm	/	Weather Alarm Switch
	NOAA Channel List	/	CH01-CH12
Bluetooth	BT Power	/	Bluetooth Switch
	BT Call	BT Earphone	Bluetooth Call - Headset Mode
		BT APP Talk	Bluetooth Call - App Mode
	BT SPK Gain	/	Bluetooth Speaker Gain
	BT SPK Gain	/	Bluetooth Microphone Gain
Radio Clone	CLON_TX	Whole machine clon	Full Clone
		Basic set Clone	Basic Settings Clone

Main Menu	Sub-menu	Sub-submenu	Description
Radio Clone	CLON_TX	Channel Clone	Channel Settings Clone
		Basic set & Channel	Basic & Channel Settings Clone
	CLON_RX	/	Receive Clone Settings
Factory Reset	/	/	Restore Factory Defaults

V. Function Description

1.Bandwidth Selection
Wideband communication delivers superior audio clarity, making it ideal for scenarios demanding high communication quality. In contrast, narrowband communication conserves frequency resources, making it more suitable for multi-user environments, albeit with a slight reduction in audio quality. Channels 8 to 14 are fixed in narrowband, while all other channels default to wideband, with adjustable bandwidth settings permitted.

2.Power Switching
Channels 8 to 14 are hard-set to low power, while all other channels default to high power (user-adjustable). The power level (High/Low) for adjustable channels can be configured via the "Power" menu option.

3.Dual Watch
The Dual Watch function allows the walkie-talkie to monitor two preset channels. It automatically and rapidly scans between these two channels, ensuring that the user does not miss any calls on either one.

4.Talkaround & Reverse Frequency
When the Talkaround function is activated, the radio's transmit frequency becomes identical to its receive frequency, and its transmit signaling code changes to match the received signaling code. This enables direct unit-to-unit communication when the repeater is unavailable or bypassed.

5.Tone Signaling
This function is used to awaken the repeater from its standby mode. From the standby screen, simultaneously press and hold the [PTT] and [SK1] keys to enter transmission mode. Release either side key ([SK1]) to resume normal voice transmission.

6.Local Alarm
Only this unit will sound an audible alarm. Press and hold the SOS key to initiate the alarm. Press the SOS key shortly to cancel it.

7.Remote Alarm
The unit will sound an audible alarm and simultaneously broadcast the alarm signal over the pre-set channel. Press and hold the SOS key to activate the alarm. Press the SOS key shortly to deactivate it.

8.Lone Worker
This is a safety monitoring feature. If no operation is detected within the set time, the radio will issue a cancellation prompt and sound a warning tone for 15 seconds. If not cancelled during this period, it will automatically enter the alarm mode. This function can be configured via the menu or the programming software.

9.VOX
When enabled, this feature allows transmission to be initiated by voice without pressing the PTT button. The VOX sensitivity is configurable across multiple levels. A higher level corresponds to greater sensitivity, requiring a lower voice volume to activate. Sensitivity Level: Adjustable range 1-9 (Default: 5); VOX Delay: Adjustable range 500-2000 ms (Default: 1000 ms)

10.Squelch Level
The squelch level, which mutes the receiver audio when no valid signal is present, is adjustable from levels 0 to 9 (Default: 3). Level 0 sets the squelch to be permanently open.

11.Roger Beep
This function can be enabled or disabled via the menu. When activated, a tone is sent to the receiving party upon releasing the PTT key, signaling the end of your transmission.

12.Microphone Gain
This setting adjusts the sensitivity of the walkie-talkie's microphone by controlling its input level. Increasing the gain makes the microphone more sensitive to quieter sounds, resulting in a higher output volume, while decreasing it reduces sensitivity for louder environments.

13.Power Saving Mode
To conserve battery power and extend standby time, the radio will enter a power-saving cycle (alternating between sleep and active periods) after a period of no transmission, reception, or button operation. The duty cycle can be set to: OFF, 1:1, 1:2, 1:4. Default: 1:4.

14.Power Saving Mode Delay
Sets the delay time before the radio enters power saving mode when no operation is detected. Configurable options: 5s, 10s, 15s, 20s, 25s, 30s, 1min, 3min, 5min, 10min, 15min, 20min, 25min, 30min. Default: 10s.

15.TOT
The TOT function is a transmission time limiter designed to prevent prolonged single transmissions from occupying the channel. When the PTT button is pressed, an internal

timer starts. If the transmission duration reaches the preset time limit (e.g., 180 seconds), the radio will automatically cut the transmission signal, emit a warning tone, and return to receive mode.

16.TOT Again Time
This setting defines the time delay required before transmission is permitted again after a Time-Out Timer (TOT) cutoff. Available options: OFF, 5S, 10S, 15S, 20S, 25S, 30S. Default: OFF.

17.Global CTCSS/DCS Setting
This function enables or disables all sub-audible tones (CTCSS/DCS) globally. When set to "Off", the tone squelch function is deactivated on all channels. When set to "On", all channels revert to their original, individually programmed CTCSS/DCS states.

18.Side Key Customization
The "SK1 Short Press" and "SK1 Long Press" actions can be assigned to the following functions: Off, Power Switch, Monitor, Scan, VOX On/Off, Talkaround/Reverse Frequency, Dual Watch Switch, DCS, NOAA Weather Alert.

19.Monitor
The Monitor function temporarily lowers the squelch level of the current channel. This allows you to hear weak radio signals (below the normal squelch threshold) or signals that do not carry the correct CTCSS/DCS code.
To use it, assign the "Monitor Switch" to a programmable key via the menu or program ming software. On the standby screen, press this customized monitor key to activate the function (the monitor icon will illuminate), enabling the radio to monitor the primary standby channel.

20.Low Battery Alarm
When the battery level becomes critically low, the unit will periodically emit a low battery warning tone. If the voice prompt feature is enabled, an audible voice alert will also be announced.

21.Scan
Assign the "Scan Switch" function to a side key via the menu or the programming software. On the standby screen, press this customized scan key to activate the function (the scan icon will illuminate). The radio will then begin scanning from the primary standby channel. The scan parameters are configurable via both the menu and the programming software.

22.Wireless Clone
This feature transfers parameters (e.g., frequency, CTCSS/DCS codes, channels) from a master radio to a slave radio via radio waves (without cables).
In the Radio Clon menu, the slave device selects the CLON_RX option to enter the infinite cloning reception interface. The master device selects the CLON_TX option, chooses the data type to be cloned as needed, and finally presses the confirm key to enter the transmission interface and begin data transfer.

The receiver restarts automatically if no data is received.
The transmitter restarts automatically if no slave response is detected.

23.Restore Factory Settings
A confirmation prompt will appear after three consecutive confirmations. Once confirmed, the device will restore factory settings and reboot. The process can be cancelled at any time before the restoration begins. All radio information will be reset to factory defaults.

24. Channel Capacity
This radio supports up to 99 channels. Channels can be added, deleted, or edited via the programming software.

25.Sub-audible Tones
In addition to the standard set of sub-audible tones, the radio supports multiple custom analog (CTCSS) and digital (DCS) tones, which can be set via the programming software.
”C-CDC”: Sets both the receive and transmit tones simultaneously.
”R-CDC”: Sets the receive tone only.
”T-CDC”: Sets the transmit tone only.

26.PPT ID
Each device has a unique PPT ID, which is the individual number for the walkie-talkie and can be set on the CPS/host/app.

27.Alias
The alias of the walkie-talkie can be modified through the App or CPS, while the host can only view it.

28.Tail Tone Elimination
The "click" sound at the end of a relay can be eliminated through settings in the frequency-writing software, which is enabled by default.

29.NOAA
Weather Alert Switch:
The Weather Alarm function can be enabled or disabled under the "Weather Alarm" option in the "Weather" menu.
Weather Alert Channel Selection:
Under the "NOAA Channel List" in the "Weather" menu, you can enable monitoring of NOAA channels. Use the Up/Down keys to switch between the channels being monitored.

30.Bluetooth
The Bluetooth function enables wireless audio transmission and data exchange, allowing pairing with devices such as Bluetooth headsets, headphones, and smartphones. Parameters can be configured via a mobile app connected through Bluetooth.
a.Press the MENU button to enter the menu interface. Navigate to the "Bluetooth" option. Press MENU again to access the Bluetooth submenu.

b.Select "BT Power" from the menu. Press the MENU button to configure the Bluetooth power switch.

31.Bluetooth Headset Pairing

For the initial connection, first set your Bluetooth headset to pairing mode, then open the "Bluetooth Headset Scan" option in the device menu.

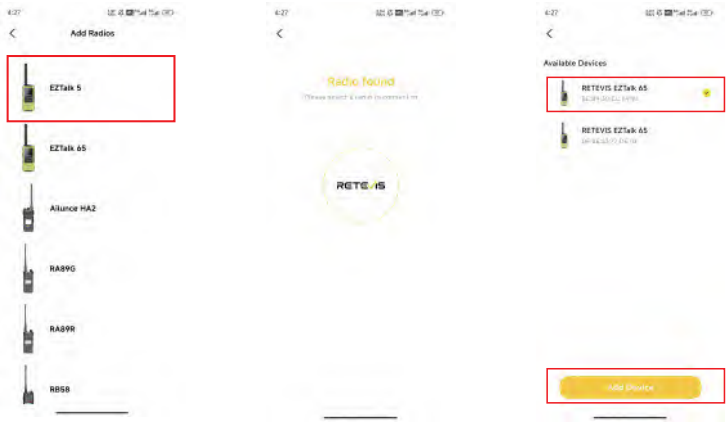
1. Press the MENU button to enter the menu interface. Navigate to and select the "Bluetooth" option. Press MENU again to enter the Bluetooth submenu.
2. Select "BT Call", then press the MENU button to enter the submenu.
3. Press the MENU button to select "BT Earphone".
4. Press the MENU button to select "EAR Scan".
5. Press the MENU button to confirm. The device will enter Bluetooth headset scanning mode. Upon successful scanning, it will automatically navigate to the "EAR Scan List" interface. If no device is found, check whether a Bluetooth headset is available or restart the scanning process.
6. Enter the "EAR Scan List" interface, select a Bluetooth device, and press the MENU button to initiate pairing.
7. Once successfully connected, the Bluetooth headset icon in the status bar will turn blue.

VI. Mobile App Functions

Radio Parameter Settings

a.Open the mobile app. Tap "Add Radios" on the screen or the "+" icon in the upper-right corner. The interface will then proceed to the corresponding submenu.

b.Tap the "EZTALK5" option to start scanning. After scanning completes, select the target device from the list. Tap the "Add Device" button. Upon successful connection, the interface will automatically return to the app home screen. The phone icon in the radio's status bar will now turn blue, indicating an active connection.

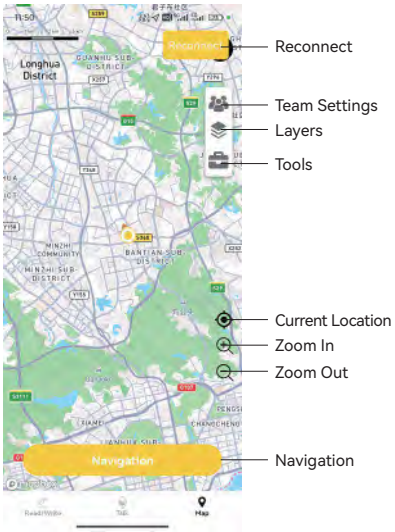


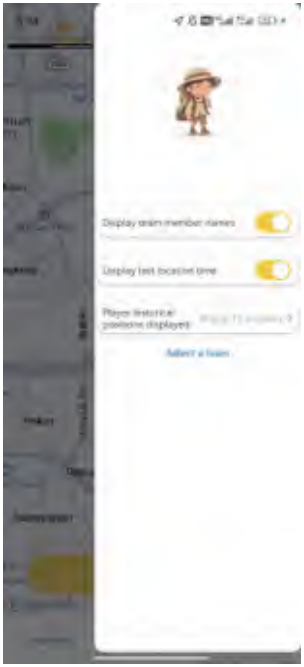
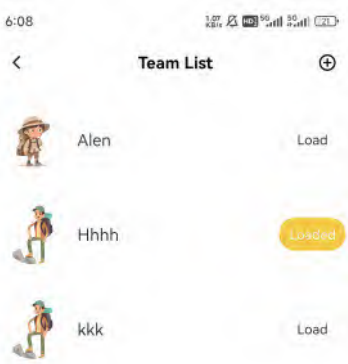
c. On the app home screen, tap "Read Data" to initiate data reading.
d. After tapping, the interface will display "Reading Data", indicating that data is being read.
e. After the reading is complete, enter the radio parameter settings interface, where parameters can be configured as needed.
f. After completing the settings, tap the "Write Data" button to write the parameters.
g. The interface will display a "Writing Data" progress bar.
h. After successful writing, the interface displays "Finished writing", indicating the process is complete.
i. After the app setup is complete, the device will restart to update the data.

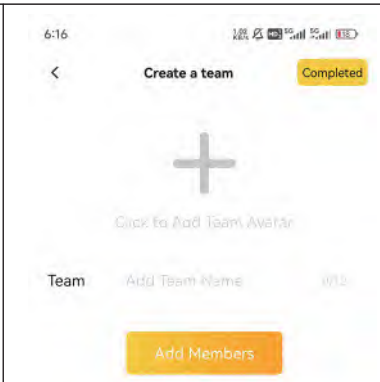
Retevis App MAP Function

The MAP function in the Retevis mobile app is a versatile software solution designed for outdoor teams. It integrates features such as team creation, location tracking, navigation, electronic fencing, hand-drawn maps, and emergency alerts. Users can create teams and track members' locations in real time to ensure safety. The app supports setting up electronic fences to monitor whether team members enter or leave specific areas, and provides an emergency alert function for quick assistance.

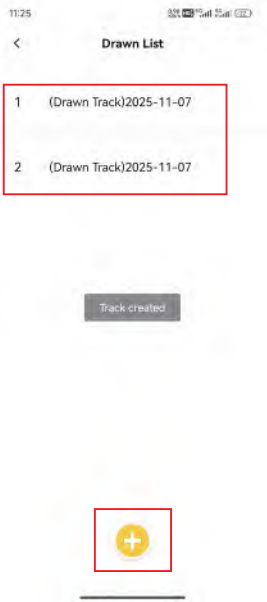
* Only after two parties have communicated via PTT will the system automatically recognize them as teammates, allowing them to be added to your team.

Options	Images	Details
Main Interface		1."Reconnect" indicates your current walkie-talkie connection status. If not connected, it prompts: "Bluetooth connection failed, please check whether the walkie-talkie "BT APP Talk" is turned on, calls initiated via the app are connected successfully." 2.Team Settings: Enter the team settings interface to configure your team's information. 3.Map Layer: Switch between Default or Satellite map display. 4.Tools: In the tools interface, you can set Drawn Track, Send SOS, and Geofence. 5.Map Main Interface: Displays current map information. If in a team, it shows teammates' locations. 6.Current Position: Switch to your current location. 7.Map Zoom In: Magnify map details. 8.Map Zoom Out: Reduce map details. Navigation: Select a location for navigation or use hand-drawn tracks for navigation.

Team Settings		
Team Settings		**Tap the icon on the right side of the main interface** 1. Display team member names: When enabled, the name of each team member will be displayed on the map, aiding in quick identification of individuals within the team. 2. Display last location time: When enabled, the map will show the timestamp of the last location update for each team member. 3. Player historical positions displayed: This feature displays the historical positions of team members, allowing users to review their movement tracks over a past period. 4. Select a team: Users can either create a new team or select an existing one from multiple teams. Once a team is selected, the locations, historical tracks, and other relevant information of its members will be displayed.
Team List		1. Click on “Select a team” 2. The Load function is used only to filter and display teams. Load: The map displays the current locations of all team members by default. Loaded: The map displays only the current locations and movement tracks of the selected team members. Other team members are hidden. In the app or CPS, you'd better update both your alias and PTT ID so that your radio can be identified when teaming up. *Only one team can be selected at a time. *You can only create a team after communicating via PTT with the team leader.

Team Settings		
Create a team		On the "Team List" interface, tap the "+" button on the right to create a new team. 1.Tap "Click to Add Team Avatar" to select a profile picture for your team. 2.Tap "Add Team Name" to enter your team's name. 3.Tap "Add Members" to add members to your team. *How to select members: (1) The radio is in the Bluetooth menu with the BT Call → BT APP Talk function enabled. (2) The radio that need to be connected must be on the same frequency, and the team members must press the PTT button to send their GPS location to the group leader.
Layer Display		
Layer Settings		On the main interface, tap the icon on the right 1. You can choose to display the map in "Default" mode or "Satellite" mode.

Navigation		
Select navigation method		Tap the "Navigation" button on the main interface. "Set Destination" – Select a location for point-to-point navigation: 1.Tap the "Set Destination" option, then select your desired destination on the map. The latitude, longitude, and address information of the location will be displayed. 2.Tap "Start Navigation" to automatically redirect to a third-party map application for navigation. "Select Track" – Choose a specified route for navigation: 1.Tap the "Select Track" option, then select a present track from the "Drawn List" to begin navigation.
Tools		
Tools		On the main interface, tap the " " "Tools" icon on the right to enter the Tools settings page. 1.Drawn Track: Allows you to manually draw a route or path on the map, which can then be used as a reference for navigation. 2.Send SOS: Enables sending your current location to your team members. 3.Geofence (Electronic Fence): Lets you define a specific area or boundary on the map. The system will trigger a notification when a device or user enters or exits this designated area.

Tools		
Drawn Track		Tap the "Drawn Track" button in the "Tools" menu. 1.The "Drawn List" will display your list of previously hand-drawn tracks. Tap any track in the list to view its detailed information. Press and hold a track to delete it. If there are no tracks in the "Drawn List", tap the "+" button at the bottom to create a new one.
Add Drawn Track		Tap the "+" button at the bottom of the "Drawn List" interface to create a new hand-drawn track. 1.While drawing the track, tap the "+" button on the interface to add a new waypoint. Then, drag the red position marker on the map to select your desired next point. Tap the "+" button again to add subsequent waypoints, gradually building your complete track. 2.During the drawing process, you can tap the "<" (undo) button to remove the last added waypoint. Once the track is complete, tap the save button on the right to save it. You will be prompted to name your hand-drawn track, and it will then be stored in the "Drawn List".

Tools		
Geofence		Tap the "Geofence" button in the "Tools" menu. 1.The "Geofence List" will display your existing geofences. Tap any entry in the list to modify its parameters. Press and hold a geofence to delete it. 2.Use the toggle switch on the right side of each geofence entry to activate or deactivate it. Please note that only one geofence can be active at a time. Tap the "+" button at the bottom of the "Geofence List" to create a new geofence.
Add Geofence		Tap the "+" button at the bottom of the "Geofence List" to create a new Geofence. 1.Geofence Name: Set a name for the geofence. 2.Team: Select any team that has already been created. 3.Geofence Shape: Set the shape of the geofence. You can choose between "Circle" or "Rectangle". 4.Alert: Choose to turn the "Alert" on or off. 5.Alert Interval: Set the time interval for the alerts. 6.After completing the settings, tap the Save button in the upper-right corner to save the configuration. The interface will then automatically switch back to the "Geofence List". * The alarm can be canceled using any key other than the PTT and power keys.

VII. Factory Defaults

CTCSS TONE FREQUENCY (Hz)									
Number	Frequency	Number	Frequency	Number	Frequency	Number	Frequency	Number	Frequency
1	67	2	69.3	3	71.9	4	74.4	5	77
6	79.7	7	82.5	8	85.4	9	88.5	10	91.5
11	94.8	12	97.4	13	100	14	103.5	15	107.2
16	110.9	17	114.8	18	118.8	19	123	20	127.3
21	131.8	22	136.5	23	141.3	24	146.2	25	151.4
26	156.7	27	159.8	28	162.2	29	165.5	30	167.9
31	171.3	32	173.8	33	177.3	34	179.9	35	183.5
36	186.2	37	189.9	38	192.8	39	196.6	40	199.5
41	203.5	42	206.5	43	210.7	44	218.1	45	225.7
46	229.1	47	233.6	48	241.8	49	250.3	50	254.1

DCS TONE FREQUENCY							
Number	Code	Number	Code	Number	Code	Number	Code
1	D023N	21	D125N	41	D245N	61	D356N
2	D025N	22	D131N	42	D246N	62	D364N
3	D026N	23	D132N	43	D251N	63	D365N
4	D031N	24	D134N	44	D252N	64	D371N
5	D032N	25	D143N	45	D255N	65	D411N
6	D036N	26	D145N	46	D261N	66	D412N
7	D043N	27	D152N	47	D263N	67	D413N
8	D047N	28	D155N	48	D265N	68	D423N
9	D051N	29	D156N	49	D266N	69	D431N
10	D053N	30	D162N	50	D271N	70	D432N
11	D054N	31	D165N	51	D274N	71	D445N
12	D065N	32	D172N	52	D306N	72	D446N
13	D071N	33	D174N	53	D311N	73	D452N
14	D072N	34	D205N	54	D315N	74	D454N
15	D073N	35	D212N	55	D325N	75	D455N
16	D074N	36	D223N	56	D331N	76	D462N
17	D114N	37	D225N	57	D332N	77	D464N
18	D115N	38	D226N	58	D343N	78	D465N
19	D116N	39	D243N	59	D346N	79	D466N
20	D122N	40	D244N	60	D351N	80	D503N

DCS TONE FREQUENCY							
Number	Code	Number	Code	Number	Code	Number	Code
81	D506N	115	D053I	149	D252I	183	D465I
82	D516N	116	D054I	150	D255I	184	D466I
83	D523N	117	D065I	151	D261I	185	D503I
84	D526N	118	D071I	152	D263I	186	D506I
85	D532N	119	D072I	153	D265I	187	D516I
86	D546N	120	D073I	154	D266I	188	D523I
87	D565N	121	D074I	155	D271I	189	D526I
88	D606N	122	D114I	156	D274I	190	D532I
89	D612N	123	D115I	157	D306I	191	D546I
90	D624N	124	D116I	158	D311I	192	D565I
91	D627N	125	D122I	159	D315I	193	D606I
92	D631N	126	D125I	160	D325I	194	D612I
93	D632N	127	D131I	161	D331I	195	D624I
94	D645N	128	D132I	162	D332I	196	D627I
95	D654N	129	D134I	163	D343I	197	D631I
96	D662N	130	D143I	164	D346I	198	D632I
97	D664N	131	D145I	165	D351I	199	D645I
98	D703N	132	D152I	166	D356I	200	D654I
99	D712N	133	D155I	167	D364I	201	D662I
100	D723N	134	D156I	168	D365I	202	D664I
101	D731N	135	D162I	169	D371I	203	D703I
102	D732N	136	D165I	170	D411I	204	D712I
103	D734N	137	D172I	171	D412I	205	D723I
104	D743N	138	D174I	172	D413I	206	D731I
105	D754N	139	D205I	173	D423I	207	D732I
106	D023I	140	D212I	174	D431I	208	D734I
107	D025I	141	D223I	175	D432I	209	D743I
108	D026I	142	D225I	176	D445I	210	D754I
109	D031I	143	D226I	177	D446I		
110	D032I	144	D243I	178	D452I		
111	D036I	145	D244I	179	D454I		
112	D043I	146	D245I	180	D455I		
113	D047I	147	D246I	181	D462I		

2.Frequency List

Channel	Channel Name	Frequency	Tone	Bandwidth	Power
1	CH1	462.5625	67.0	25KHz	5W
2	CH2	462.5875	118.8	25KHz	5W
3	CH3	462.6125	127.3	25KHz	5W
4	CH4	462.6375	131.8	25KHz	5W
5	CH5	462.6625	136.5	25KHz	5W
6	CH6	462.6875	141.3	25KHz	5W
7	CH7	462.7125	146.2	25KHz	5W
8	CH8	467.5625	D243N	12.5KHz	0.5W
9	CH9	467.5875	D032N	12.5KHz	0.5W
10	CH10	467.6125	D047N	12.5KHz	0.5W
11	CH11	467.6375	D051N	12.5KHz	0.5W
12	CH12	467.6625	D053N	12.5KHz	0.5W
13	CH13	467.6875	D065N	12.5KHz	0.5W
14	CH14	467.7125	D116N	12.5KHz	0.5W
15	CH15	462.5500	123.0	25KHz	5W
16	CH16	462.5750	D743I	25KHz	5W
17	CH17	462.6000	D332I	25KHz	5W
18	CH18	462.6250	127.3	25KHz	5W
19	CH19	462.6500	D243I	25KHz	5W
20	CH20	462.6750	D606N	25KHz	5W
21	CH21	462.7000	D731I	25KHz	5W
22	CH22	462.7250	136.5	25KHz	5W
23	CH23	TX:467.5500/ RX:462.5500	/	25KHz	5W
24	CH24	TX:467.5750/ RX:462.5750	/	25KHz	5W
25	CH25	TX:467.6000/ RX:462.6000	/	25KHz	5W
26	CH26	TX:467.6250/ RX:462.6250	/	25KHz	5W
27	CH27	TX:467.6500/ RX:462.6500	/	25KHz	5W
28	CH28	TX:467.6750/ RX:462.6750	/	25KHz	5W

Channel	Channel Name	Frequency	Tone	Bandwidth	Power
29	CH29	TX:467.7000/ RX:462.7000	/	25KHz	5W
30	CH30	TX:467.7250/ RX:462.7250	/	25KHz	5W

VIII. Specifications

Channel Capacity	1~99
Operating Voltage	DC 7.4V
Operating Temperature	-10℃~+55℃，Charging 10-40℃
Battery Capacity	2000mAh
Antenna Impedance	50Ω
Bandwidth	12.5KHz/25KHz
Transmit	
Output Power	GMRS：5/0.5W
Spurious Emissions	≤-20dBm
Signal-to-Noise Ratio (SNR)	N:≥35dB W:≥40dB
Modulation Distortion	<5%
Transmit Current	≤1800mA
Adjacent Channel Power	≥ 70dB（Wideband） ≥ 60dB（Narrowband）
Receive	
Receive Sensitivity	≤ 0.22uV/-120dBm（Typical）
Adjacent Channel Selectivity	W：70dB；N：60dB
Maximum Receive Current	≤ 350mA
Output Impedance	16Ω（Speaker）
Audio Output Power	≥ 1W（10%）
Receive Signal-to-Noise Ratio	N:≥35dB W:≥40dB

WARNING	Before using this device, please read this guide which contains important operating instructions for safe usage, control information and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards.

User' instructions should accompany the device when transferred to other users.

Unauthorized modification and adjustment

Changes or modifications not expressly approved by the party responsible for compliance may void the user's authority granted by the local government radio management departments to operate this radio and should not be made. To comply with the corresponding requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc.) not authorized by the local government radio management departments equipment authorization for this radio could violate the rules.

Radio License

This two-way radio is a GMRS station. A valid individual license is required to operate a GMRS station. To obtain an individual license, an applicant must be eligible and follow the applicable rules and procedures established by FCC. The applicant must pay the required application and regulatory fees. Each individual license in the GMRS will normally have a term of ten years from the date of grant or renewal, and may be renewed pursuant to the procedures of FCC. To obtain a GMRS operator license, you need FCC Form 605 & 159, we suggest visiting the FCC website at https://www.fcc.gov /wireless/support/fcc-form-605, which includes necessary instructions. More questions about the license application, please contact the FCC at 1-888-225-5322 or go to the FCC's website: http://www.fcc.gov.

Note: According to FCC rules, any individual who holds an individual GMRS license may allow his or her immediate family members to operate his or her GMRS station or stations. Immediate family members are the licensee's spouse, children, grandchildren, stepchildren, parents, grandparents, stepparents, brothers, sisters, aunts, uncles, nieces, nephews, and in-laws.

FCC Compliance information

- This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. (Licensed radios are applicable);
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (Other devices are applicable)

(1) This device may not cause harmful interference.

(2) This device must accept any interference received, including interference that may cause undesired operation.
Note: This equipment has been tested and found to comply with the limits for a Class B digital device. 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.

Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that all electrical and electronic products, batteries, or accumulators must be taken to designated collection locations at the end of their working life. Do not dispose of these products as unsorted municipal waste.Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children.
Do NOT dispose of batteries in household trash or incinerate.

RF Safety

This two-way radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. RF energy, which when used improperly, can cause biological damage. Please refer to the following websites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits: http://www.who.int/en/
Transmit no more than the rated duty factor 50% of the time. Transmitting necessary information or less, is important because the radio generates measurable RF energy exposure only when transmitting in terms of measuring for standards compliance. For users who wish to further reduce their exposure, some effective measures to reduce RF exposure include:
- Reduce the amount of time spent using your wireless device.
- Use a speakerphone, earpiece, headset, or other hands-free accessory to reduce proximity to the head (and thus head exposure). While wired earpieces may conduct some energy to the head and wireless earpieces also emit a small amount of RF energy, both wired and wireless earpieces remove the greatest source of RF energy (handheld device) from proximity to the head and thus can greatly reduce total exposure to the head.
- Increase the distance between wireless devices and your body.

This radio is designed for and classified as “General population use”. General population/uncontrolled environments are defned as locations where there is exposure that may be incurred by people who are aware of the potential of exposure, for example, as a result of employment or occupation. It means a radio must be used only by individuals aware of the hazards, and the ways to minimize such hazards; Not intended for use in a General population/uncontrolled environment.

Hand-held Mode

To control your exposure and ensure compliance with the controlled environment exposure limits, always adhere to the following procedure:
-To receive calls, release the PTT button.
-To transmit (talk), press the Push-to-Talk (PTT) button in front of the face.
-Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) at least one inch (2.5 centimeters) away from the nose or lips.

Electromagnetic Interference/Compatibility

Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compati bility. During transmissions, your radio generates RF energy that can possibly cause interference with other devices or systems. To avoid such interference, turn off the radio in areas where signs are posted to do so, such as hospitals or healthcare facilities.
Persons with pacemakers, implantable cardioverter defibrillators (ICDs) or other active implantable medical devices should:

- Consult with their physicians regarding the potential risk of interference from radio frequency transmitters, such as portable radios (poorly shielded medical devices may be more susceptible to interference).
- Turn the radio OFF immediately if there is any reason to suspect that interference is taking place.
- Do not carry the radio in a chest pocket or near the implantation site, and carry or use the radio on the opposite side of the body from the implantable device to minimize the potential for interference.

Hearing Aids: Some digital wireless radios may interfere with some hearing aids. In the event of such interference, you may want to consult your hearing aid manufacturer to discuss alternatives.
Other Medical Devices: If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Turn off your radio in the following conditions:

Turn off your radio prior to entering any area with a potentially hazardous or explosive atmosphere. Only radio types that are especially qualified should be used in such areas as “Intrinsically Safe”.
Note: the areas with potentially explosive atmosphere referred to above include blasting caps, blasting areas, inflammable gas, dust particles, metallic powders, grain powders, fueling areas such as below decks on boats, fuel or chemical transfer or storage facilities,

areas where the air contains chemicals or particles (such as grain, dust or metal powders) and any other area where you would normally be advised to turn off your vehicle engine. Areas with potentially explosive atmospheres are often – but not always posted.

Use of Communication Devices While Driving

• Always check the laws and regulations on the use of radios in the areas where you drive. Use of Communication Devices, for example, mobile radio, may not be allowed.
• Give full attention to driving and to the road.
• Use hands-free operation, if available.
• Pull off the road and park before making or answering a call, if driving conditions or regulations so require.
• Do not place a portable radio in the area over an air bag or in the airbag deployment area. The radio may be propelled with great force and cause serious injury to occupants of the vehicle when the airbag inflates.

Protect your hearing

CAUTION: Exposure to loud noises from any source for extended periods of time may temporarily or permanently affect your hearing. The louder the radio's volume, the less time is required before your hearing could be affected. Hearing damage from loud noise is sometimes undetectable at first and can have a cumulative effect.

Batteries Safety information

• Since batteries are sensitive to high temperatures when storing them, keep them in a cool and dry place. The recommended temperature should be between +10 ℃and +25℃and never exceed +30℃. Batteries should therefore not be stored next to radiators or boilers nor in direct sunlight. Extremes of humidity (below 35% and above 95% relative humidity for sustained periods should be avoided since they are detrimental to both batteries and packing. Although the storage life of batteries at room temperature is good, storage is improved at lower temperatures provided special precautions are taken. Also, accelerated warming is harmful.
• Turn off your radio before removing or installing a battery. Store spare batteries securely. Dispose of used batteries immediately and safely.
• The battery supply terminals are not to be short-circuit.
• Do not replace the battery in any area labeled “Hazardous Atmosphere”. Any sparks created in a potentially explosive atmosphere can cause explosion or fire.
• When the conductive material such as jewelry, keys or chains touches exposed terminals of the batteries, may complete an electrical circuit (short circuit the battery) and become hot to cause bodily injury such as burns. Exercise care in handling any battery, particularly when placing it inside a pocket, purse or other container with metal objects;
• Dirty battery contacts need to be wiped with clean dry cloth, both on the battery and in the appliance.

• Batteries should be removed from the appliance when not being used for long periods of time (1 months). The batteries should be enclosed in special protective packaging (such as sealed plastic bags or variants) which should be retained to protect them from condensation during the time they are warming to ambient temperature.
• Exhausted batteries are to be removed from the equipment.
• Do not dismantle, open or shred batteries. Batteries should be dismantled only by trained people. Do not force discharge, recharge, disassemble, heat above 55 ℃or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
• Batteries shall be charged at 10℃~40℃ environment temperature specified. If the environment temperature is lower than 0℃, the charge shall be prohibited.
The plug of the adapter is considered a disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible.

WARINING:CHOKING HAZARD-Small Parts.
Not suitable for children under 3 years old.

Authorized Accessories List

• For a list of Retevis-approved accessories for your radio model, visit the website: http://www.Retevis.com
• Contact Retevis for assistance regarding repairs and service.

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

Guarantee

Model Number: _____
Serial Number: _____
Purchasing Date: _____
Dealer: _____ Telephone: _____
User's Name: _____ Telephone: _____
Country: _____ Address: _____
Post Code: _____ Email: _____

Remarks:
1.This guarantee card should be kept by the user, no replacement if lost.
2.Most new products carry a two-year manufacturer's warranty from the date of purchase.
3.The user can get warranty and after-sales service as below:
● Contact the seller where you buy.
● Products Repaired by Our Local Repair Center
4.For warranty service, you will need to provide a receipt proof of purchase from the actual seller for verification
Exclusions from Warranty Coverage:
1.To any product damaged by accident.
2.In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs.
3.If the serial number has been altered, defaced, or removed.

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Made in China