

RETEVIS



EZTalk 1R Two Way Radio USER MANUAL

Important Attention

Before using the **Retevis EZTalk 1R**, please read the manual which contains important operating instructions for safe usage, RF Energy Awareness, control information, and operational instructions for compliance with RF Energy Exposure limits in applicable national and international standards.

Content

USER MANUAL	1
Introduction	5
Out-of-box Check	5
1. Getting Started	8
2. Radio Features	10
2.1. Selecting a Channel A Setting (Channel, Sub-code and Transmit Power)	10
2.2. Selecting a Channel B Setting (Channel, Sub-code and Transmit Power)	10
2.3. Squelch Level Setting	11
2.4. Voice Operated Exchange (VOX)	11
2.5. Time Out Timer (TOT)	11
2.6. NOAA Weather Channel Mode Setting	11
2.7. Weather Alert	11
2.8. Noise Cancellation	11
2.9. Call Tone	12
2.10. Keypad Tone	12
2.11. Roger Tone/Beep	12
2.12. Busy Channel Lockout (BCL)	12
2.13. Display Brightness	12
2.14. Low Battery Alert	12
2.15. Voice Annunciation	13
2.16. Screen Sleep	13
2.17. Display Orientation	13
2.18. Battery Saver	13

2.19. SOS/Emergency Alert	13
2.20. SOS/Emergency Alert	13
2.21. Factory Reset	14
3. Troubleshooting	14
4. Weather Channel Frequencies	15
5. Channels & Frequencies	15
6. CTCSS Chart & DCS Code List	16
7. Specification	17



To Customer

Before using Retevis EZTalk 1R, please thoroughly read this operation manual. Pay special attention to the following aspects to ensure smooth and safe communication.

1. Equipment inspection

- Battery status: Ensure that the battery of the radio is fully charged to prevent communication interruption due to battery depletion.
- Antenna connection: Check that the antenna is securely connected and free from damage or bending to maintain optimal signal transmission.

2. Frequency settings

- Channel selection: Choose an appropriate channel to ensure all participants are communicating on the same channel.
- Frequency legality: Ensure that the frequencies used comply with local laws and regulations to avoid legal issues stemming from illegal frequency use.

3. Environmental Factors

- Topographical influence: In complex terrains such as mountains or forests, signals may be obstructed, affecting communication quality. Opt for open areas for communication.
- Weather conditions: Severe weather (e.g., heavy rain, and strong winds) can impact signal transmission. Ensure safe conditions for radio use.

4. Communication Protocols

- Clear communication: Use concise and clear language to avoid lengthy conversations and ensure accurate information transfer.
- Await response: After sending an instruction or message, wait for a response to avoid confusion caused by simultaneous speaking by multiple individuals.
- Emergency situations: Pre-agree on emergency communication methods and signals to ensure rapid and effective information dissemination in emergencies.

5. Equipment protection

- Water and dust resistance **IP67**: Retevis EZTalk 1R boasts good water and dust resistance. In cases of water or dust ingress during activities like hiking, climbing, promptly wipe off moisture and clean the device to extend its lifespan.
- Drop Resistance **1m**: Ensure the product is securely fastened to prevent damage to the radio from violent collisions or drops during skiing.
- Data were tested under controlled laboratory conditions. Data depend on many other factors; Use these laboratory-derived data for reference purposes only and actual results will vary.

6. Backup plans

- Spare radio: Carry a spare radio for unexpected needs.
- Mobile phone backup: Carry a smartphone with sufficient battery life and signal as an alternative means of communication.

7. Maintenance and Servicing

- Regular checks: Periodically inspect the performance of the radio and microphone to ensure they are in good condition.

- Cleaning and servicing: Regularly clean the radio to ensure long-term use of the equipment.

Thank you once again for choosing our product. If you encounter any issues during use, please feel free to contact us through the following channels. Thank you.

Email: info@retevis.com

Website: www.retevis.com

Facebook: [@retevis.fans](https://www.facebook.com/retevis.fans)

Introduction

This user manual provides detailed instructions on how to operate your device. Please read this manual carefully before using the device.

❖ Out-of-box Check

Open the package box and check the radio and accessories in the box before use. Contact the deliverer or dealer immediately if any item is lost or damaged during deliver.

❖ Charging Notice

Charge the new or long-term unused Li-ion battery before use. Charge or discharge twice or three times circle, and the **battery** will reach the best performance. Charge the battery when the battery is at a low **battery** level.

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. To reduce risk of fire, a battery should not be charged for more than 6 hours and disconnect charger from line voltage (AC outlet) by removing main plug even if the **battery** 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.

⚠ Attention:

- ◆ Charging temperature should be between 0° C to 40° C. Beyond the temperature, it will affect the correct charging.
- ◆ Before charging, it is strictly prohibited to use the device during charging, which will affect the normal charging of the Li-ion battery and cause accidental danger.
- ◆ After the walkie-talkie is fully charged, unplug the USB charging plug. Do not charge it for more than 6 hours.
- ◆ Don't unplug the power or cable to avoid interference during charging.
- ◆ If the use time decreases even when the charging is full, the **battery** life reaches the end. Replace with the new **battery**.
- ◆ Don't charge when the radio is wet. To reduce the danger, use the cloth to wipe it dry before charging.
- ◆ Don't throw the short-circuit **battery** terminal or the **battery** away into the fire. Don't disassemble the **battery** cover by yourself.
- ◆ Please do not disassemble the device and replace the battery at will. Misuse of Li-ion batteries may result in the following hazards: smoke, fire, or the battery may rupture. Misuse can also cause damage to the battery or degradation of the battery's performance.
- ◆ **The plug of the adapter is considered a disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible.**

⚠ Warning:

Device is charged directly with the adapter. When charging, first insert the plug of the “adapter” into 110~220V power supply, plug the Type-C charging cable to adapter and then plug the Type-C connector directly inserted into the connector port on the bottom side of the radio. The battery charging icon on the screen indicating the battery is start charging. When fully charged, the battery icon displays full battery bar. Charging time is about 3-4 hours.

❖ Keep and Clean

- ◆ Don't hold the antenna directly.
- ◆ Use a smooth cloth to wipe the dust and stains, avoiding poor performance.
- ◆ Cover the USB charging port when the radio is not in use.
- ◆ Use the neutral detergent (do not use strong corrosive chemicals) and a warm cloth to clean.

❖ Accessories Installation

This radio features a changeable wearable accessory slot, compatible with belt clip and carabiner hanger.

◆ Install/Remove Belt Clip/ Carabiner Hanger

1. Bring the magnetic belt clip/ carabiner hanger close to the back of the device in the direction shown in the diagram 1. The accessory will attach and slightly press the accessory to lock into place.

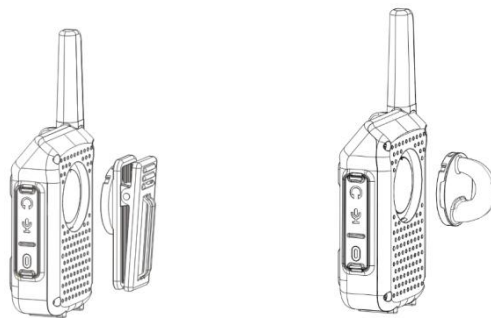


Diagram 1

2. To release, rotate the magnetic belt clip/ carabiner hanger accessory 90° in any direction as shown in the diagram 2 & 3. The main unit will automatically release and separate from the accessory.

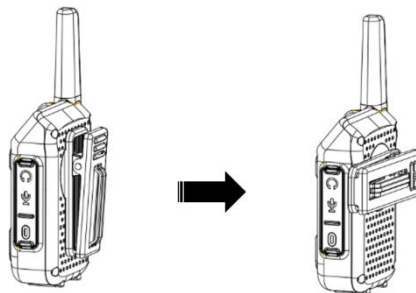


Diagram 2

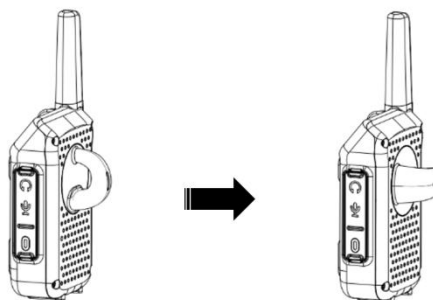
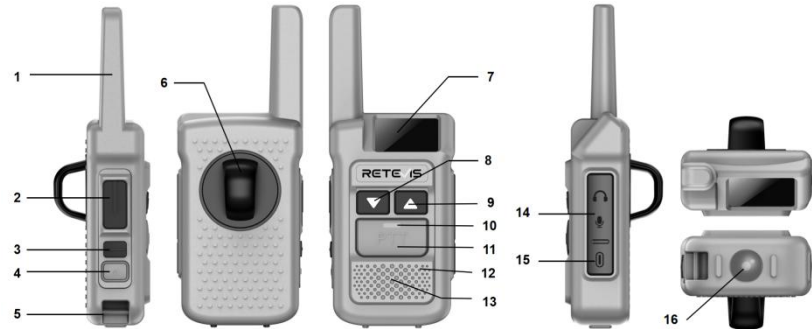


Diagram 3

❖ **Checking Battery Charging Status**

- 1. To check the battery charging status while the radio is charging and turned OFF, press the Power ON/OFF button. The indicator will show the current charging status.

FAMILIAR WITH RADIO



1	Antenna	7	LCD display	13	Speaker
2	PTT button (A)	8	Down button	14	Audio Connector
3	Power / Menu button	9	Up button	15	USB-C charging port
4	Torch / SOS button	10	TX/RX indicator	16	Torch Light
5	Lanyard bar	11	PTT Button (B)		
6	Wearable slot	12	Microphone		

KEY FUNCTIONS

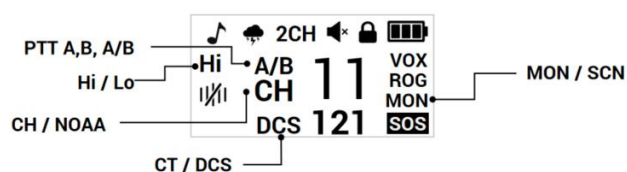


No	Short Press	Long Press
1	[PTT (A)]	
2	[Menu]	[Power On/Off]
3	[Torch]	[SOS/ Emergency]
4	[▼] (Down)	[Scan]
5	[▲] (Up)	[NOAA Weather Channel]



6	[PTT (B)]	
7	Combination Button Functions (1) One-Key Sub-Code Switch - Firstly press and hold [▲] and continue press [PTT (B)] for 2 seconds to temporary quick clear all sub- code (disappear) and press again to resume back the preset sub-codes. (2) Call - Press [▼] & [▲] simultaneously to send call . (3) Monitor - Long press [▼] & [▲] simultaneously, press [MENU] or [PTT (A)/(B)] to disable to disable. (4) Keypad Lock - Long press [Power / Menu] & [Torch / SOS] simultaneously to lock and unlock button. When lock, only [▼] , [▲] and [Menu] buttons are disabled. (5) Screen Orientation - Short press [PTT (B)] & [▼] simultaneously to flip the screen.	

DISPLAY SCREEN GUIDE



1		Call tone	9		Noise Cancellation	1	11	Operating Channel
2		Weather Alert	10	A	PTT (A) channel set	7		
3	2CH	Dual Channel	11	B	PTT (B) channel set	1	121	CTCSS/DCS Sub-code
4		Mute	12	A/B	PTT (A) & (B) same channel	8		
5		Button Lock	13	CH	Channel	1	VOX	VOX
6		Battery Indicator	14	NOAA	NOAA Weather Channel	9		
7	Hi	High Power	15	CT	CTCSS Sub-code	2	ROG	Roger Tone
8	Lo	Low Power	16	DCS	DCS Sub-code	0		
						1	MON	Monitor
						2	SCN	Scan
						2	SOS	SOS Emergency Call
						3		

1. Getting Started

1.1. Powering On/Off

- To Power On: Press and hold the [Power / Menu] button for 4 seconds.
- To Power Off: Press and hold the Power button for 4 seconds.

1.2. Up/Down Button

- On the home screen, press [▼] and [▲] to adjust volume level 0~10.
- Press and hold the [▲] button for 2 seconds to ON or OFF the NOAA Weather Channel.
- Press and hold [▼] button for 2 seconds to activate scan; press any button to deactivate.

1.3. Scan

The scan feature automatically searches for active signals on all channels. To enable scanning:

- Long press [▼] button to start scanning.
- Press [MENU] button to exit.

1.4. NOAA Weather Channel

- In this mode, you can listen to weather broadcast from NOAA or Environment Canada.
- Long press [▲] button to ON or OFF the NOAA Weather Channel.
- Adjust the volume setting by pressing the [▲] or [▼] button.
- Long press the [▲] button to turn it off and the radio switches to Two-Way Mode.

1.5. One-Key Sub-Code Switch

- To clear or restore the preset sub- codes
- Press and hold the [▲] button, then press and hold the [PTT (B)] button for 2 seconds.
 - The sub- codes will disappear when cleared.
 - Repeat the same action to restore the preset sub- codes.

1.6. Call Button

- To send a short call tone to the other radios on the same channel.
- When selecting 1-10, press [▼] & [▲] simultaneously to send call tone.

1.7. Monitor

- The Monitor function temporarily open the squelch to listen for weak signals or background noise on the current channel.
- Long press [▼] & [▲] simultaneously, press [MENU] or [PTT (A)/(B)] to disable.

1.8. Keypad Lock

Turn keypad on/off to prevents accidental key presses.

- Long press [Power / Menu] & [Torch / SOS] simultaneously to lock and unlock button. When lock, only [▼], [▲] and [Menu] buttons are disabled.

1.9. Screen Orientation -

To adjust the display orientation.

- Short press [PTT (B)] & [▼] simultaneously to flip the screen.

1.10. Dual Channel Monitor

Dual Scan allows you to monitor your primary channel and a second designated channel simultaneously.

To set the A & B channel, please refer to section 2.1 & section 2.2.

Note: When you receive a message on either the PTT (A) Channel or PTT (B) Channel, that channel will automatically hold for few seconds. This hold time gives you a window to transmit your response back using the same channel using either PTT (A) for channel A and PTT (B) for channel B.

Note: To turn off the dual channel monitor, navigate to Channel for PTT (B) , select the channel selection as [OFF].

2. Radio Features

2.1. Selecting a Channel A Setting (Channel, Sub-code and Transmit Power)

2.1.1. Channel for PTT (A)

- Press [MENU] until Channel A' s number and "A" start to flash.
- Press [▼] or [▲] to change the channel.
- Press [PTT] button to exit menu or [MENU] button to continue setup.

2.1.2. Sub-code for PTT (A)

- Press [MENU] until the CTCSS/DCS code start to flash.
- Press [▼] or [▲] to select the code. You can hold down the button to scroll through the codes rapidly.
- Press [PTT] button to exit menu or [MENU] button to continue setup.

Note: CT/DCS is change according to CT/DCS number setting.

2.1.3. Setting Transmit Power for PTT (A)

- (1) Press [MENU] until Channel A' s Hi/Lo start to flash.
- (2) Press [▼] or [▲] to select transmit power. Select either 0.5W (Low) or 2W (High). Channel 8 to Channel 14 are fixed with 0.5W.
- (3) Press [PTT] button to exit menu or [MENU] button to continue setup.

2.2. Selecting a Channel B Setting (Channel, Sub-code and Transmit Power)

2.2.1. Channel for PTT (B)

- Press [MENU] until Channel B' s number and "B" start to flash.
- Press [▼] or [▲] to change the channel.
- Press [PTT] button to exit menu or [MENU] button to continue setup.

2.2.2. Sub-code for PTT (B)

- Press [MENU] until the CTCSS/DCS code start to flash.
- Press [▼] or [▲] to select the code. You can hold down the button to scroll through the codes rapidly.
- Press [PTT] button to exit menu or [MENU] button to continue setup.

Note: CT/DCS is change according to CT/DCS number setting.

2.2.3. Setting Transmit Power for PTT (B)

- (1) Press [MENU] until Channel **B**' s Hi/Lo start to flash.
- (2) Press [▼] or [▲] to select transmit power. Select either 0.5W (Low) or 2W (High). Channel 8 to Channel 14 are fixed with 0.5W.
- (3) Press [PTT] button to exit menu or [MENU] button to continue setup.

Note:

If PTT (A) and PTT (B) are assigned to the same channel, the display will show "A/B". If they are assigned to different channels, the radio defaults to Channel A. During transmission, the display indicates "A" when using PTT (A) and "B" when using PTT (B).

2.3. Squelch Level Setting

The squelch function mutes background noise when no signal is present. A higher level requires a stronger signal to unmute. To adjust the squelch level:

- Press [MENU] until **SQL** setting appears. The current setting Off/ 1~9 will flash.
- Press [▼] or [▲] to turn Off/ 1~9.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.4. Voice Operated Exchange (VOX)

The VOX feature allows for hands-free operation by transmitting when it detects your voice. To set the VOX sensitivity:

- Press [MENU] until **VOX** setting appears. The current setting Off/ L1~L3 will flash.
- Press the [▲] or [▼] button to select sensitivity (L1, L2, L3). Select OFF to disable VOX. L1 is most sensitive, L2 is medium and L3 is less sensitive.
- Press [Menu/OK] to confirm your selection.

2.5. Time Out Timer (TOT)

The Time Out Timer (TOT) limits your transmission time to conserve battery and comply with radio regulations. To set the timer:

- Press [MENU] until **Time Out Timer** setting appears. The current setting 30, 60, 90, 180, 300 **seconds** will flash.
- Press the [▲] or [▼] to select.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.6. NOAA Weather Channel Mode Setting

To set to desired NOAA weather channel and broadcasts when Weather Mode and Weather Alert is on:

- Press [MENU] until **Weather Mode** setting appears. The current setting 1~11 will flash
- Press the [▲] or [▼] button to select a weather channel.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

To active NOAA Weather Channel refer to Section 1.4.

2.7. Weather Alert

Note: To activate the Weather Alert mode, NOAA Weather must set with weather channel.

- To enable/ disable Weather Alert mode:
 1. Press [MENU] until **Weather Alert** setting appears. The current setting On/Off will flash.
 2. Press [▲] or [▼] to ON or OFF to disable Weather Alert.
 3. Press any button to confirm and weather mode is activated and back to home screen.

2.8. Noise Cancellation

Reduces unwanted background sounds, allowing clearer voice communication in noisy environments. Turn noise cancellation to "Off" can be useful in specific scenarios where full voice fidelity. To select noise cancellation:

- Press [MENU] until **Voice CNCL** appears. The current setting on/off will flash.
- Press [▲] or [▼] to turn on/off.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.9. Call Tone

This setting allows you to choose an audible tone that signals an incoming call. To select a call tone:

- Press [MENU] until **Call Tone** appears. The current setting Off, 1~10 will flash.
- Press [▲] or [▼] to select call tone.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.10. Keypad Tone

Enable or disable keypad audible sound. To enable or disable this feature:

- Press [MENU] until **Keypad Tone** appears. The current setting On/Off will flash.
- Press [▲] or [▼] to turn on/off.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.11. Roger Tone/Beep

The Roger Tone/Beep is an audible tone that sounds at the end of a transmission. To enable or disable this feature:

- Press [MENU] until **Roger Tone** appears. The current setting On/Off will flash.
- Press [▲] or [▼] to turn on/off.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.12. Busy Channel Lockout (BCL)

This feature prevents transmitting on a channel that is currently in use by others. To enable or disable this feature:

- Press [MENU] until **Busy CH. Lockout** appears. The current setting On/Off will flash.
- Press [▲] or [▼] to turn on/off.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

Note: When the busy channel lockout is enabled, pressing the PTT button while receiving signals should display both a prompt tone and a message, as shown in the image below, indicating "Busy CH. Lockout".

2.13. Display Brightness

To adjust the screen brightness level. Brightness level can be set 1-3, default:2.

- Press [MENU] until **Display BRT** appears. The current setting 1~3 will flash.
- Press [▲] or [▼] to select setting.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.14. Low Battery Alert

Adjust the low battery alert.

- Press [MENU] until **Low Batt. Alert** appears. The current setting On/Off will flash.
- Press [▲] or [▼] to turn on/off.

- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.15. Voice Annunciation

EZTalk 1R supports **1 language (English)** for voice annunciation prompts.

2.16. Screen Sleep

Screen Sleep automatically turns off the LCD backlight or display after a period of inactivity. The radio remains fully operational; pressing any key or using PTT will wake the screen immediately.

- Press [MENU] until **Screen Sleep** appears. The current setting will flash.
- Press [▲] or [▼] to select setting. Screen Sleep duration 0s, 15s, 20s, 30s, 1 min, 2 min, 5 min.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.17. Display Orientation

To adjust the display orientation.

- Press [MENU] until **Screen ORI** appears. The current setting standard/ flipped will flash.
- Press [▲] or [▼] to select setting.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.18. Battery Saver

The Battery Saver feature reduces power consumption when the radio is in standby mode. When enabled, the radio cycles between active monitoring and low power sleep to extend battery life. It can be set: OFF, 1:1, 1:2, and 1:4. 1:4 extends longer battery life during standby.

- 1:1: Full power always – faster response, highest power use and shorten battery life (for critical communication).
- 1:2: Balance of response and battery life (Periodic yet consistent communication)
- 1:4: Maximum battery saving, slightly slower response (long outdoor trips with moderate or occasional communication).
- Press [MENU] until Battery Saver appears. The current setting will flash.
- Press [▲] or [▼] to select setting.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

2.19. SOS/Emergency Alert

You can use the Emergency alert feature to signal members in your group if you require urgent help. After pressing the SOS button, **an alert tone is transmitted from your radio to the radios in your group** or contact channel. The 1R/ 61R radios in your group automatically advance the speaker volume to the maximum setting and sound an alert tone for 8 seconds. After 8 seconds, the alert tone stops. Then, the radio is in hands free mode for 22 seconds, allowing you to talk without pressing the PTT button. For the 30 seconds duration of the Emergency alert mode, radio controls and buttons are locked to maximize reception of the emergency message.

- Press [MENU] until **SOS** appears. The current setting will flash.
- Press [▲] or [▼] to select channel.
- Press MENU to move to CTCSS/ DCS Sub-code setting.
- Press [▲] or [▼] to select CTCSS/ DCS Sub-code.
- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

WARNING: Use the Emergency alert feature in case of emergency only. Retevis is not responsible if there is no response to the emergency alert from the receiving group.

2.20. Factory Reset

Restore all settings to their original defaults.

- Press [MENU] until **Factory Reset** appears. The current setting will flash.
- Press [▲] or [▼] to select preferred language.

If Factory Reset is “NO”

- Press the [PTT] button to confirm and exit or [MENU] to continue set up.

If Factory Reset is “YES”

- Press the [PTT] button to confirm “Yes” or Press [▲] or [▼] to select “No”.
- Press the [PTT] to confirm and return to home screen.

3. Troubleshooting

If you experience issues with your radio, please check the following solutions before requesting service.

3.1 General Issue

Problem	Possible Cause & Solution
Radio will not turn on	Battery depleted: Charge the battery fully.
	Faulty charger or power source: Try a different USB cable or power adapter.
Battery drains too quickly	Transmit power set to High (2W): Use Low (0.5W) power when possible.
	Backlight duration too long: Shorten the screen sleep time in Settings .
	Battery Saver mode is off: Enable Battery Saver in Settings .
	Old or damaged battery: Battery may need replacement.
Cannot hear any audio	Volume is too low: Press the Volume [▲] button.
	Squelch level is too high: Lower the squelch level in Radio Settings .
	Headset/earpiece connected: Disconnect the accessory or check its connection.
	Channel is inactive: Ensure you are on a channel with activity.
Other users cannot hear me	Microphone is blocked: Ensure the microphone hole is clean and unobstructed.
	You are not transmitting: Press and hold the PTT (Push-To-Talk) button fully while speaking.
	Privacy Codes mismatch: Ensure all radios in your group use the same channel and privacy code.

3.2. Scanning Issue

Problem	Possible Cause & Solution
Scanning does not stop on active channels	Squelch level is too low: Raise the squelch level so it doesn't stop on weak interference.
	Privacy Codes are enabled: Scanning may only stop for signals with matching privacy codes.

3.3. Display & Button Issues

Problem	Possible Cause & Solution
Screen is dim or blank	Screen sleep timer activated: Press any button to wake the screen.
	Brightness is set too low: Adjust brightness in Settings > Display Brightness .
Buttons do not respond	Keypad is locked: Check manual for keypad lock/unlock procedure.
	The radio is busy: Wait for a transmission to finish.

4. Weather Channel Frequencies

This section shows the weather channels and its frequencies available for the radio.

Weather Channel	Frequency (MHz)	Weather Channel	Frequency (MHz)
WX1	162.550	WX7	162.525
WX2	162.400	WX8	161.650
WX3	162.475	WX9	161.775
WX4	162.425	WX10	161.750
WX5	162.450	WX11	162.000
WX6	162.500	–	–

5. Channels & Frequencies

This section shows the channels and its frequencies available for the device.

No	Frequency (MHz)	CTCSS/DCS	Power
1	462.5625	67.0	High
2	462.5875	118.8	High
3	462.6125	127.3	High
4	462.6375	131.8	High
5	462.6625	136.5	High
6	462.6875	141.3	High
7	462.7125	146.2	High
8	467.5625	D243N	Low
9	467.5875	D032N	Low
10	467.6125	D047N	Low
11	467.6375	D051N	Low
12	467.6625	D053N	Low
13	467.6875	D065N	Low
14	467.7125	D116N	Low
15	462.5500	123.0	High
16	462.5750	D743I	High
17	462.6000	D332I	High
18	462.6250	127.3	High
19	462.6500	D243I	High
20	462.6750	D606N	High
21	462.7000	D731I	High
22	462.7250	136.5	High

6. CTCSS Chart & DCS Code List

CTCSS CHART									
Number	Frequency	Number	Frequency	Number	Frequency	Number	Frequency	Number	Frequency
OFF	/								
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 CODE LIST									
Number	Code	Number	Code	Number	Code	Number	Code	Number	Code
1	D023N	2	D025N	3	D026N	4	D031N	5	D032N
6	D036N	7	D043N	8	D047N	9	D051N	10	D053N
11	D054N	12	D065N	13	D071N	14	D072N	15	D073N
16	D074N	17	D114N	18	D115N	19	D116N	20	D122N
21	D125N	22	D131N	23	D132N	24	D134N	25	D143N
26	D145N	27	D152N	28	D155N	29	D156N	30	D162N
31	D165N	32	D172N	33	D174N	34	D205N	35	D212N
36	D223N	37	D225N	38	D226N	39	D243N	40	D244N
41	D245N	42	D246N	43	D251N	44	D252N	45	D255N
46	D261N	47	D263N	48	D265N	49	D266N	50	D271N
51	D274N	52	D306N	53	D311N	54	D315N	55	D325N
56	D331N	57	D332N	58	D343N	59	D346N	60	D351N
61	D356N	62	D364N	63	D365N	64	D371N	65	D411N
66	D412N	67	D413N	68	D423N	69	D431N	70	D432N
71	D445N	72	D446N	73	D452N	74	D454N	75	D455N
76	D462N	77	D464N	78	D465N	79	D466N	80	D503N
81	D506N	82	D516N	83	D523N	84	D526N	85	D532N
86	D546N	87	D565N	88	D606N	89	D612N	90	D624N
91	D627N	92	D631N	93	D632N	94	D645N	95	D654N
96	D662N	97	D664N	98	D703N	99	D712N	100	D723N
101	D731N	102	D732N	103	D734N	104	D743N	105	D754N
106	D023I	107	D025I	108	D026I	109	D031I	110	D032I
111	D036I	112	D043I	113	D047I	114	D051I	115	D053I
116	D054I	117	D065I	118	D071I	119	D072I	120	D073I
121	D074I	122	D114I	123	D115I	124	D116I	125	D122I
126	D125I	127	D131I	128	D132I	129	D134I	130	D143I
131	D145I	132	D152I	133	D155I	134	D156I	135	D162I
136	D165I	137	D172I	138	D174I	139	D205I	140	D212I
141	D223I	142	D225I	143	D226I	144	D243I	145	D244I
146	D245I	147	D246I	148	D251I	149	D252I	150	D255I
151	D261I	152	D263I	153	D265I	154	D266I	155	D271I
156	D274I	157	D306I	158	D311I	159	D315I	160	D325I
161	D331I	162	D332I	163	D343I	164	D346I	165	D351I
166	D356I	167	D364I	168	D365I	169	D371I	170	D411I
171	D412I	172	D413I	173	D423I	174	D431I	175	D432I
176	D445I	177	D446I	178	D452I	179	D454I	180	D455I
181	D462I	182	D464I	183	D465I	184	D466I	185	D503I
186	D506I	187	D516I	188	D523I	189	D526I	190	D532I
191	D546I	192	D565I	193	D606I	194	D612I	195	D624I
196	D627I	197	D631I	198	D632I	199	D645I	200	D654I
201	D662I	202	D664I	203	D703I	204	D712I	205	D723I

DCS CODE LIST									
Number	Code	Number	Code	Number	Code	Number	Code	Number	Code
206	D731I	207	D732I	208	D734I	209	D743I	210	D754I

7. Specification

7.1 Radio

General	Frequency Range	FRS 462.55-467.7125MHz
	Channel Capacity	FRS: 22
	Channel Spacing	12.5kHz
	Operating Voltage	3.7V
	Battery Capacity	1500mAh
	Operating Temperature	-20° C~60° C
	Charging Temperature	0° C~40° C
	Antenna Impedance	50Ω
	Dimensions (H*W*D)	96.7*56*29.6mm
Transmitter	Output Power	High: 2.0W, Low: 0.5W
	Frequency Stability	±2.5ppm
	Adjacent Channel Power	60dBm@12.5kHz
	FM Modulation	12.5kHz@11K0F3E
	Transmission Current	≤1500mA
Receiver	Analog Receive Sensitivity	0.25uV/-119dBm (20dB SINAD)
	Rated Audio Distortion	≤3%
	Receive Current	≤500mA

PRODUCT SAFETY GUIDE FOR TWO-WAY RADIOS



Attention: Before using this radio, read this guide which contains important operating instructions for safe usage and RF energy awareness and control for compliance with applicable standards and regulations.

- ❖ User instructions should accompany the device when transferred to other users.
- ❖ Do not use this device if the operational requirements described herein are not met.

These instructions are important because they inform users of RF energy exposure and provide simple procedures on how to control it.

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/>

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.

FCC Requirements:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

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

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC Requirements:

Licence-exempt radio apparatus

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d' Industrie Canada applicables aux appareils radio exempts de licence. L' exploitation est autorisée aux deux conditions suivantes :

- (1) l' appareil ne doit pas produire de brouillage;
- (2) l' utilisateur de l' appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d' en compromettre le fonctionnement.

RF Exposure Compliance and Control Guidelines and Operating Instructions

- DO NOT transmit for more than 75% of total radio use time, more than 75% of the time can cause RF exposure compliance requirements to be exceeded.
- 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.
- Portable Device, this transmitter may operate with the antenna(s) documented in this filing in Push-to-Talk and body-worn configurations. RF exposure compliance is limited to the specific belt-clip and accessory configurations as documented in this filing and the separation distance between head and its antenna shall be at least 2.5 cm.

When worn on the body, always place the radio in approved clip, holder, holster, case, or body harness for this product. Use of non-approved accessories may result in exposure levels, which exceed the RF exposure limits.

Hand-held Mode (if applicable)

- Hold the radio in a vertical position with the microphone (and other parts of the radio including the antenna) at least 2.5 cm (one inch) away from the nose or lips. The antenna should be kept away from the eyes. Keeping the radio at a proper distance is important as RF exposure decreases with increasing distance from the antenna.



Avoid Choking Hazard



Small Parts. Not for children under 3 years.

Turn off your radio power in the following conditions:



- Turn off your radio before removing (installing) a battery or accessory or when charging battery.
- Turn off your radio when you are in a potentially hazardous environments: Near electrical blasting caps, in a blasting area, in explosive atmospheres (inflammable gas, dust particles, metallic powders, grain powders, etc.).
- Turn off your radio in any facility where posted notices instruct you to do so, hospitals or health care facilities (Pacemakers, Hearing Aids and Other Medical Devices) may be using equipment that is sensitive to external RF energy.

Protect your hearing:



- Use the lowest volume necessary to do your job.
- Turn up the volume only if you are in noisy surroundings.
- Turn down the volume before adding headset or earpiece.
- Limit the amount of time you use headsets or earpieces at high volume.
- When using the radio without a headset or earpiece, do not place the radio's speaker directly against your ear.
- Use careful with the earphone maybe possible excessive sound pressure from earphones and headphones can cause hearing loss.

Note: 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.



Avoid Burns:



- Do not use any portable radio that has a damaged antenna. If a damaged antenna comes into contact with the skin when the radio is in use, a minor burn can result.
- When the conductive material such as jewelry, keys or chains touch 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.
- BATTERY WARNING: KEEP OUT OF REACH OF CHILDREN
- Store spare batteries securely.
- Dispose of used batteries immediately and safely

- When the transceiver is used for long transmissions, the radiator and chassis will become hot.

Safety Operation



- Do not use charger outdoors or in moist environments, use only in dry locations/conditions.
- Do not disassemble the charger, that may result in risk of electrical shock or fire.
- Do not operate the charger if it has been broken or damaged in any way.
- Do not place a portable radio in the area over an air bag or in the air bag deployment area. The radio may be propelled with great force and cause serious injury to occupants of the vehicle when the air bag inflates.

To reduce risk

- Pull by the plug rather than the cord when disconnecting the charger.
- Unplug the charger from the AC outlet before attempting any maintenance or cleaning.
- Contact Retevis for assistance regarding repairs and service.
- The adapter shall be installed near the equipment and shall be easily accessible
- 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. Dispose of them according to the laws and rules in your area.

Approved Accessories



- This radio meets the RF exposure guidelines when used with the Retevis accessories supplied or designated for the product. Use of other accessories may not ensure compliance with the RF exposure guidelines and may violate regulations.
- For a list of Retevis-approved accessories for your radio model, visit the following website: <http://www.Retevis.com>

Guarantee

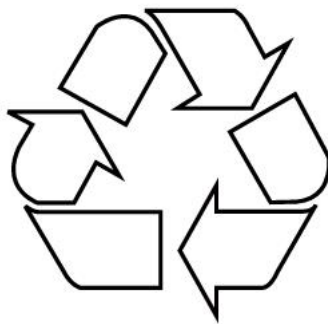
Model Number: _____
Serial Number: _____
Purchasing Date: _____
Dealer: _____ Telephone: _____
User's Name: _____ Telephone: _____
Country: _____ Address: _____
Post Code: _____ Email: _____

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. Further details, pls read <http://www.retevis.com/after-sale/>
- 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.



Shenzhen Retevis Technology Co.,Ltd.

7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli
6th Road, Jihua Street, Longgang District, Shenzhen, China
Web: www.retevis.com
E-mail: info@retevis.com
Facebook: [@retevis.fans](https://www.facebook.com/retevis.fans)



Made in China