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MADE IN CHINA

RETEVIS



EZTalk 4 User's Manual

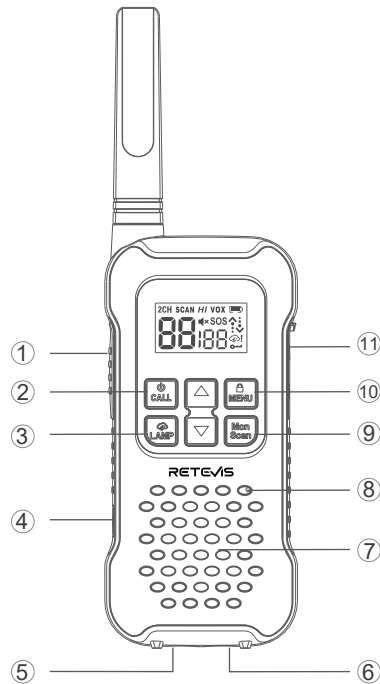
TO CUSTOMERS

Thank you very much for using our two way radio. This radio of modern design is reasonable structure with stable functions. It is designed to meet different customers' need for high quality with easy operation and perfect capability. We believe you are pleased with its nice shape and excellent performance. This manual is suitable for using the model of RT49P

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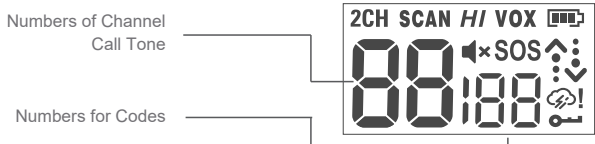
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KEY FUNCTIONS



- ① Push-to-Talk
- ② Power On/Off / Call Tone
- ③ Lamp On/Off / Weather Switch
- ④ SOS
- ⑤ Lamp
- ⑥ SOS Lamp
- ⑦ Speaker
- ⑧ Microphone
- ⑨ Monitor / Scan
- ⑩ Lock / Menu
- ⑪ Micro-USB Charging Port / Accessory Port

DISPLAY SCREEN GUIDE

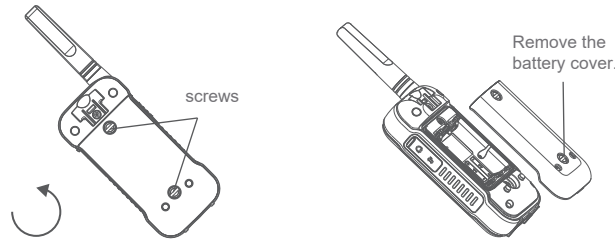


2CH	Dual Watch		Battery Meter		Lock
SCAN	Scan		Status (Transmit/Receive)		Weather Alert
VOX	VOX		Volume Mut		

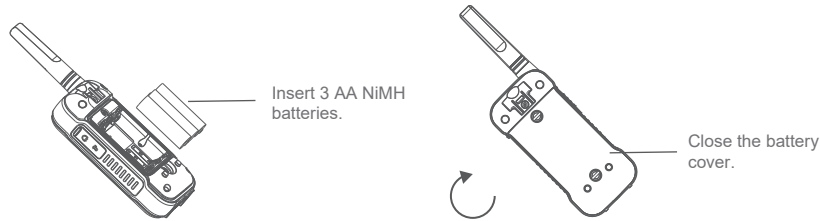
GETTING STARTED

Installing the Three AA NiMH Rechargeable Battery

1. Take the belt clip off.
2. Unlock two screws counterclockwise and open the cover to install the three AA NiMH battery according to orientation shown in battery compartment.



3. Close the battery and tighten the two screws clockwise.
4. Tighten the screws clockwise to close the battery cover firmly.



Radio Battery Meter

Battery full bars indicates battery high . When battery meter shows 1 bar, device is on low battery mode and will indicate low battery alert in the forms of alert tone and blinking bar display.

Note:

- Remove the battery from radio for storage purposes. Batteries may corrode over time and cause permanent damage to your devices.
- Do not mix and use old/new/alkaline/NiMH batteries.
- Charge the supplied NiMH batteries once every 3 months when not in use.

Using the Micro-USB Charger

The micro-USB charger is a handy port that allows you to conveniently charge your NiMH battery. Use certified adaptor(5V, ≥1A). Do not attempt to charge alkaline batteries.

1. Make sure your radio is turned OFF.
2. Plug the micro-USB cable into the micro-USB charging port on your radio. Connect the other end of the micro-USB charger to wall power outlet.
3. The battery meter on LCD will move to indicate the battery is charging

Turning your Radio On and Off

1. Press and hold on the button to turn your radio ON/OFF.
2. The display screen then shows the current channel, code and all features that are enabled.

3. Disabling CTCSS/DCS: In the off state, press the PTT key and the Power key simultaneously to disable CTCSS/DCS.

Setting the Volume

1. Press to increase the volume. Press to decrease the volume.
2. When the volume reached level 0 the mute icon appears permanently on screen.

RECEIVING AND TRANSMITTING

To communicate, all radios in your group must be set to the same channel and sub code.

1. To talk, press and hold the PTT button. When transmitting, the icon is shown. Release the PTT button when you are finished talking. Do not use the radios closer than five feet apart.
2. When receiving, the icon is shown.

Monitor Button

1. Press and hold button for 3 seconds to enter monitor mode and listen for weak signals on the current channel.
2. You can also press button to check for activity on the current channel before you talk.
3. Release the button to exit monitor mode.

PTT Time out Timer

When you press PTT buttons for more than 60 seconds, radio will stop transmitting. This is to prevent accidental transmission.

Mode Button

User can use this function to switch between two-way and weather mode by press and hold for 3 seconds.

FEATURES

Setting the Channel

1. Press the button until the channel number starts to flash.
2. Press or button to change the channel number. Press the PTT button to exit menu.

Channels and Frequences

CH	Frequency (MHz)	Sub-audio	Max Power Output	CH	Frequency (MHz)	Sub-audio	Max Power Output	CH	Frequency (MHz)	Sub-audio	Max Power Output	CH	Frequency (MHz)	Sub-audio	Max Power Output
1	462.5625	67	2W	7	462.7125	146.2	22W	13	467.6875	D065N	0.5W	19	462.65	D243I	2W
2	462.5875	118.8	2W	8	467.5625	D243N	0.5W	14	467.7125	D116N	0.5W	20	462.675	D606N	2W
3	462.6125	127.3	2W	9	467.5875	D032N	0.5W	15	462.55	123	2W	21	462.7	D731I	2W
4	462.6375	131.8	2W	10	467.6125	D047N	0.5W	16	462.575	D743I	2W	22	462.725	136.5	2W
5	462.6625	136.5	2W	11	467.6375	D051N	0.5W	17	462.6	D332I	2W				
6	462.6875	141.3	2W	12	467.6625	D053N	0.5W	18	462.625	127.3	2W				

CTCSS CHART (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 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

Number	Code	Number	Code	Number	Code	Number	Code	Number	Code
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	D243I	107	D332I	108	D731I	109	D743I		




Setting the Sub Codes

1. Press the  button until the code number starts to flash.
2. Press  or  button to select code number. Press the PTT button to exit menu.

Setting and Transmitting Call Tones

1. Press  button until call tone 'CA' appears. The current call tone setting flash.
2. Press  or  button to change and listen to the call tone. Press the PTT button to exit menu.




Voice Operated Transmission (VOX)

1. To activate VOX, press  button until 'VOX' appears on the display. The current setting (0, 1-3) will flash.
2. Press  or  button to select the sensitivity level. Press the PTT button to exit menu.




L3=High Sensitivity
L2=Medium Sensitivity
L1=Low Sensitivity
L0=Turn Off VOX function

Dual Channel Monitor

With this feature enabled, you can scan current channel and another channel alternately.

1. Press  button until '2CH' appears on the display. The current setting (OF, 1-22) will flash.
2. Press  or  to select channels. Press the PTT button to exit menu. The screen will alternate between Home Channel and Dual Watch Channel.To end Dual Watch mode, re-enter Dual Watch menu to select the OFF setting. If you set the same channel and code as current channel, Dual Watch does not work.


Setting High Low Power

1. Press  button until 'Pr' appears on the display.
2. Press  or  button to select HI or LO. (HI- High Power, LO- Low Power)
3. Press the PTT button to exit menu.





Keypad Tones

Press and hold the  button while turning the radio ON to switch the keypad tone ON/OFF.

Roger Tone

Press and hold the  button while turning the radio ON to turn the Roger Beep ON. Repeat the step to turn Roger Beep OFF .



Keypad Lock

1. To lock the radio, press and hold  button until the key lock indicator  icon on display appear.
2. To unlock the radio, press and hold  button until key lock indicator  icon on display disappear.






3. Repeat the step to unlock the device.

Scanning Channels


To Start Scanning:

1. Briefly press the  button to start scanning. SCAN icon will appear in the display. The device will stop scrolling and receiving when matched channel and sub codes detected.
2. After the end of transmission, press the PTT button within 5 seconds to respond. The device will resume scanning after end of any received activity.
3. If you press PTT button when the device is scrolling, the transmission will be on the 'home channel'.
4. Press  button to exit scanning feature.

Notes:

If the device stops on an unintended/undesired transmission, press  or  button to resume scan OR temporarily remove that channel from the scan list by pressing and holding  or  for 3 seconds. Press  to exit and re-enter scan mode to restore removed channels to the scan list.

LED Lamp

Press the  button to turn ON/OFF the lamp.

Automatic Power Saving



This feature is enabled by default to enhance battery life.

Emergency SOS Mode

User can use this feature to emit SOS signal. To enter emergency SOS mode:

1. Press and hold the SOS button for 3 seconds. The RED LED light will be activated.
2. Press the button again to deactivate.

Water Activated LED

Once the devices are dropped into water, white LED will be activated automatically to ease user to locate the devices in dark environment. After retrieve the devices, press any button to deactivate except  button.  button will overwrite and activate LAMP feature.




WEATHER RECEIVE

Entering Weather Mode

Press and hold  button for 3 seconds to enter weather mode.






Setting the Weather Channel

Your radio receives weather frequencies:

1. In weather mode, press the  button until weather channel number flashes.
2. Press  or  button to select the appropriate channel.
3. Press the PTT button to set and exit menu.

Setting the Weather Alert

Your radio can be set to respond to NOAA Weather Radio emergency messages.

1. In weather mode press the  button twice until  ! icon displays.
2. Press  or  button to select On/Off.
3. Press the PTT button or  button to exit the weather menu set up. Repeat the step to disable the weather alert.

WEATHER CHANNELS & FREQUENCIES

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

SPECIFICATIONS

General		Receiver		Transmitter	
Frequency Range	FRS:462.5500-467.7125MHz	Receive Sensitivity	-125dBm	RF Output Power	2.0W/0.5W (Hi/Low)
Memory Channel	22CH	Adjacent Channel Selectivity	-125dBm	Spurious Emission	≤-13dBm
Operation Voltage	DC 3.6V / DC4.5V	Inter Modulation and Rejection	≥60dB	Transmission current	≤1.3A
Battery Capacity	1200 mAh	Rated Audio Power Output	≥450mW (4.5V)		
Operating Temperature	-20 C ~+60 C	Rated Audio Distortion	≤5% (60% volume)		
Antenna Impedance	50Ω	Receive Current	≤300mA		

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.

RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR PORTABLE 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.

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.

All Retevis two-way radios are designed, manufactured, and tested to ensure they meet government-established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of two-way radios. These instructions are important because they inform users about 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/>

Radio License

Governments keep the radios in classification, business two-way radios operate on radio frequencies that are regulated by the local radio management departments (FCC, ISED, OFCOM, ANFR, BFTK, Bundesnetzagentur...). To transmit on these frequencies, you are required to have a license issued by them. The detailed classification and the use of your two radios, please contact the local government radio management departments.

Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

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 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, 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.

• Disposal

The crossed-out wheeled-bin symbol on your product, literature, or packaging reminds you that in the European Union, all electrical and electronic products, batteries, and accumulators (rechargeable batteries) 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 in your area.



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 Information

- DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer for use with this radio, and the antenna gain shall not exceed the specified gain by the manufacturer declared.
- DO NOT transmit for more than 50% of total radio use time, more than 50% 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.
- DO NOT operate the transmitter in areas that are sensitive to electromagnetic radiation such as hospitals, aircraft, and blasting sites.
- 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 user and the device or its antenna shall be at least 2.5 cm.
- General population/uncontrolled Radio, this radio is designed for and classified as "General population/uncontrolled Use".

Hand-held Mode

- 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:



WARNING

- 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 while taking on fuel or while parked at gasoline service stations.

To avoid electromagnetic interference and/or compatibility conflicts

- 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.
- Turn off your radio when on board an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

Protect your hearing:



WARNING

- 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



WARNING

Antennas

- 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.

Batteries (If appropriate)

- 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

Long transmission

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

Safety Operation



WARNING

Forbid

- 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

Approved Accessories



WARNING

- 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>

RETEVIS

Warranty card

Remarks

1. This guarantee card should be kept by the user, no replacement if lost.
2. Most new products carry a two-year manufacture's warranty from the date of purchase.
Further details, pls read <http://www.retevis.com/after-sale/>
3. The user 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.

Model Number: _____

Serial Number: _____

Purchasing Date: _____

Dealer: _____

Telephone: _____

User's Name: _____

Telephone: _____

Country: _____

Address: _____

Post Code: _____

Email: _____