

# RETEVIS



**RB66S**  
**USER'S MANUAL**



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Brochures, Software/Firmware, Manual etc, Please contact  
your direct reseller first OR go to website [retevis.com](http://retevis.com) and  
check "support" in the each product link to download it.

## **WARNING**

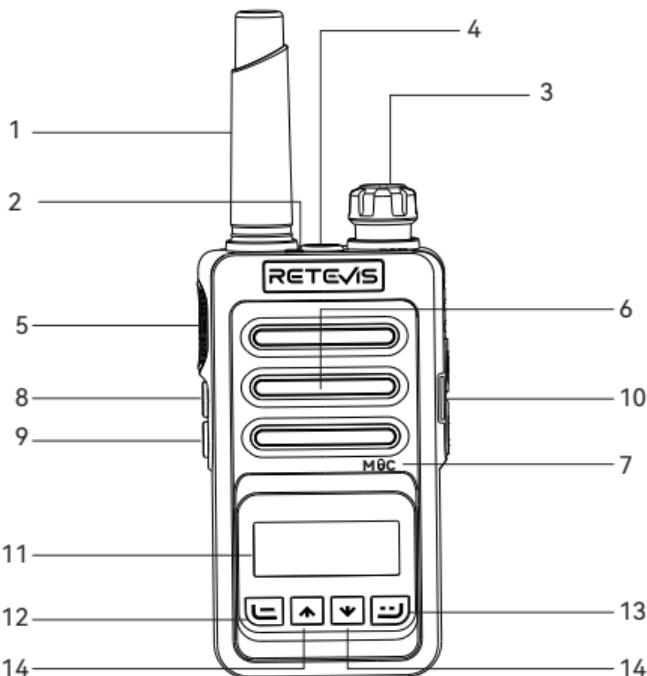
Before using this radio, please read this manual carefully.

- Do not charge the radio in flammable, explosive, or radio communication-prohibited areas (such as gas stations, airports, etc.).
- Do not operate this radio without a license in areas prohibited by government laws.
- Keep the radio away from direct sunlight and avoid placing it near any heating equipment.
- Ensure the radio is protected from dusty, humid, or splashing water environments. Do not place it near heating equipment.
- If you smell an odor or see smoke coming from the radio, immediately remove the battery pack and contact your nearest dealer.
- Repair work for this radio should be carried out by professional technicians only. Unauthorized disassembly is strictly prohibited.

## **Charging Precautions:**

- Use the designated charging cradle for this model.
- When charging the entire radio, ensure it is turned off. Do not transmit while charging.
- For optimal battery performance, charge the battery for at least 5 hours during the initial charge.
- Do not overcharge the battery pack (maximum 12 hours) as it may shorten the battery's lifespan. If the battery indicator shows incomplete charging but the maximum charging time has elapsed, disconnect the power source promptly.
- This charger is designed specifically for the battery pack of this product. Do not charge other battery packs as it may damage both the charger and the battery.
- Store the fully charged battery pack in a cool, dry place. Do not expose it to fire or direct sunlight as it poses a safety hazard.
- A slight heating of the battery pack during charging is normal.
- **WARNING: KEEP NEW OR OLD USED BATTERIES OUT OF REACH OF CHILDREN.**
- In the event of a battery leaking, do not allow the liquid to come into contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice immediately.
- The plug of the adapter is considered a disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible.

## Familiar with the Radio



No.	Name	Function	No.	Name	Function
1	Antenna	Transmits/receives wireless signals	8	Side Key 1	Short press for scanning, long press for alarm activation
2	Indicator Light	Indicates working status	9	Side Key 2	Short press for flashlight, long press for VOX activation
3	Power Button/Volume Control	Turns radio on/off, adjusts volume	10	Type-C Port	Headphone/data port/charging
4	LED Flashlight	Provides illumination	11	LCD Display	Shows channel, subtone, battery level, function status
5	PTT	Transmits when pressed	12	Menu Button	Enters menu/confirms selection
6	Speaker	Outputs voice	13	Back Button	Returns to previous menu
7	Mic	Inputs voice	14	Up/Down Buttons	Scrolls through menus/adjusts channels

## **Screen Icon Meanings:**

L:Indicates current channel power status (L for low power).

SCAN:Indicates device is in channel scanning mode.

MON: Indicates monitor function is on.

TX:Indicates device is transmitting (RX for receiving).

VOX:Indicates voice-activated transmission is on.

S: Indicates device enters power-saving mode when idle.

Lock: Indicates button lock is active.

Battery: Indicates current battery level.

CH01: Indicates current channel number.

121N DCS:Indicates CTCSS/DCS number for current channel.

## **Function Operations**

### **1.Status Indicator Light**

Red light during transmission, blue light during reception.

### **2.POWER Button/VOLUME Control**

Turn clockwise to power on, counterclockwise until clicking sound to power off.

Adjusts volume during rotation.

### **3.PTT Button**

Press and hold to speak, red light indicates transmission. If no transmit frequency is set, beeps and red light indicate error. Release to receive, blue light indicates signal reception and speaker activation.

### **4.Squelch Level (SQ)**

Adjusts the speed at which the speaker activates upon receiving a signal.

Lower SQ values mean faster activation. SQ levels range from 1 to 9, with default set to 5.

### **5.Transmit Timeout**

Prevents prolonged channel occupation and potential damage from continuous transmission. If transmission exceeds the set time limit (max 180s), the radio stops transmitting and sounds an alarm. Release PTT to return to receive mode.

### **6.Battery Saver Function**

Extends battery life by entering power-saving mode when idle. ON enables power-saving, OFF disables. Default is ON.

### **7.VOX Function**

Allows hands-free transmission by speaking into the microphone without pressing PTT. VOX sensitivity level defaults to 5, with a 0.5-second delay.

### **8.ABR Backlight**

Adjusts LCD backlight duration. Options include OFF/1~10 seconds, with

default set to 5 seconds.

#### 9.BEEP Function

Configures button press sounds. ON enables beep sounds, OFF disables. Default is OFF.

#### 10.LCD Contr--LCD Contrast Function

Adjusts LCD font display contrast. Higher levels mean brighter fonts. Contrast ranges from 1 to 5, with default set to 5.

#### 11.BCL Busy Channel Lockout Function

Prevents interference from same-frequency signals during transmission. ON enables lockout, OFF disables. Default is OFF.

#### 12.Side Key 1 Short Press Function Setting

The available functions for the short press of Side Key 1 include: OFF (no function set), MONITOR (monitor function), SCAN (scan function), VOX (voice-activated function), ALER (alert function), and LAMP (lighting function). The factory default is set to SCAN (scan function).

#### 13.Side key 1 Long Press Function Setting

The functions available for the long press of Side Key 1 are: OFF (no function set), MONITOR (monitor function), SCAN (scan function), VOX (voice-activated function), ALER (alert function), and LAMP (lighting function). The factory default is set to ALER (alert function).

#### 14.Side Key 2 Short Press Function Setting

The short press functions of Side Key 2 include: OFF (no function set), MONITOR (monitor function), SCAN (scan function), VOX (voice-activated function), ALER (alert function), and LAMP (lighting function). The factory default is set to LAMP (lighting function).

#### 15.Side key 2 Long Press Function Setting

The long press functions of Side Key 2 are: OFF (no function set), MONITOR (monitor function), SCAN (scan function), VOX (voice-activated function), ALER (alert function), and LAMP (lighting function). The factory default is set to VOX (voice-activated function).

#### 16.LOCK Button Function

The LOCK key lock function is designed to prevent erroneous operation of the device's functions due to accidental button presses. The LOCK key lock function has two states: OFF and ON. When set to OFF, the function is disabled. When set to ON, pressing and holding the RETURN button can enable or disable the key lock. When the key lock is enabled, only the PTT (Push-To-Talk) button and the RETURN button are functional, while all other buttons are disabled (in an inactive state).

## 17.FRE SCAN Compatibility Function

The FRE SCAN compatibility function is used to detect the channel frequency and sub-audible tone of another device when their frequency and sub-audible tone are unknown.

The FRE SCAN compatibility function has two states: OFF and ON.

When the compatibility function is enabled, the specific compatibility operation method is as follows:

Step 1: Select "ON" for the frequency matching switch option.

Step 2: Set Radio A to Channel 1. Press and hold Side Key 1 (the "+" button) while turning on the power until the screen displays "Scan Freq". Release Side Key 1. At the same time, the receiving blue light will flash. Wait for Radio B to transmit, and Radio A will detect the frequency and sub-audible tone of Radio B.

Step 3: When Radio B is in the transmitting state, after successful compatibility of Radio A, the speaker will emit a "beep" sound, and the frequency and sub-audible tone received from the other party will be saved simultaneously.

The receiving blue light of Radio A will go out, indicating successful compatibility.

Step 4: After successful compatibility on Channel 1, you can switch to the next channel and continue the compatibility process for the next channel.

Step 5: After all compatibility operations are completed, restart Radio A to complete the compatibility process.

## 18.R-DCS Receive Digital DCS Code Setting

The R-DCS function allows you to set the digital DCS code for the receive part of each channel through the device's keyboard.

There are 210 R-DCS codes available, including 105 N codes and 105 I codes.

## 19.R-CTCS Receive Analog CTCSS Frequency Setting

The R-CTCS function enables you to set the analog CTCSS for the receive part of each channel through the device's keyboard.

There are 50 CTCSS tone frequencies available for R-CTCS.

## 20.T-DCS Transmit Digital DCS Code Setting

The T-DCS function allows you to set the digital DCS code for the transmit part of each channel through the device's keyboard.

There are 210 T-DCS codes available, including 105 N codes and 105 I codes.

## 21.T-CTCS Transmit Analog CTCSS Frequency Setting

The T-CTCS function enables you to set the analog CTCSS for the transmit part of each channel through the device's keyboard.

There are 50 CTCSS tone frequencies available for T-CTCS.

## 22.ROGER BEEP Function

Sends a special end-of-transmission tone to indicate completion. ON enables, OFF disables. Default is OFF.

### 23.Wireless Pairing

- a.Only works with same-model radios;
- b.Tune to channel 2, hold Side Key 1 (+ button) to power on until "FSKcopy" appears. Blue light flashes rapidly.

For pairing Radio A to Radio B, ensure Radio B is in "FSKcopy" mode and waiting. Press PTT on Radio A to initiate pairing. Blue light turns off upon success.

- C.Restart radios after pairing.

## Factory Settings

CH NO.	Frequency (MHz)	Code(Hz)	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

## **CAUTION**

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**

Governments keep the radios in classification. Two-way radios are only operated on

authorized radio frequencies that are regulated by the local radio management departments (such as FCC, ISED, OFCOM, ANFR, BFTK, Bundesnetzagentur, and so on.). The detailed classification and the use of your two-way 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.

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### **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.

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

## **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. Dispose of them according to the laws and rules in your area.



## **RF exposure 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 "Occupational/Controlled Use Only".

Occupational/Controlled environments are defined 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 compatibility. 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 cardiovascular 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 airbag 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**

- Use the lowest volume necessary to do your job. Turn up the volume only if you are in noisy surroundings.
- 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 carefully with the earphone. Maybe possible excessive sound pressure from earphones and headphones can cause hearing loss. 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.



### **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.

## 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](http://www.retevis.com)  
E-mail: [info@retevis.com](mailto:info@retevis.com)  
Facebook: [@retevis.fans](https://www.facebook.com/retevis.fans)



Made in China

说明书要求

尺寸：90\*120mm

印刷：黑白印刷

装订：钉装

封面封底内页为空白，

质保卡为单独一页

纸张：内容双胶纸

此面不用印刷