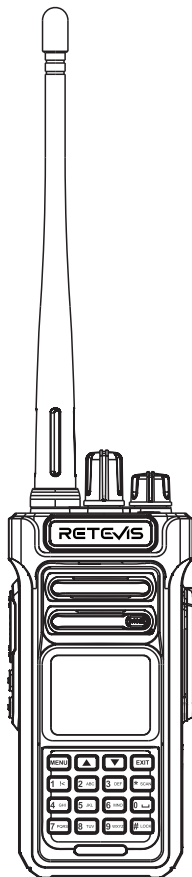


RETEVIS



RT29S USER'S MANUAL



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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.



Notice to Users

Charging Precautions

The battery is not charged at the factory. Please charge new or unused rechargeable batteries before use. Charging/discharging the battery a couple of times will optimize its capacity. When the battery power is low, recharge or replace the battery.

Applicable Battery Types

Use only batteries specified by our company for charging. Using other batteries may cause explosions, resulting in personal injury.

Note:

1. Do not short-circuit battery terminals or dispose of batteries in a fire. Do not disassemble the battery casing.
2. Charge the battery in an environment where the temperature is less than 40°C. Charging outside this range may affect proper charging.
3. Turn off the radio when charging. Using the radio while charging may interfere with proper charging.
4. Avoid unplugging the power adapter or battery during the charging process to prevent disrupting the charging sequence.
5. If the usage time significantly decreases even after a full charge, it indicates that the battery life has ended. Replace with a new battery.
6. If the battery is fully charged, do not unplug and reinsert it for further charging, as this may shorten or damage the battery life.
7. Do not charge the battery when it or the radio is wet. Dry it with a cloth before charging to avoid hazards.

Warning:

All batteries may cause damage or injury if conductive metals such as jewelry, keys, or chains contact the electrodes. These metals may create a short circuit and generate significant heat. Exercise caution when handling any battery, especially when placing it in pockets, bags, or containers with other metal objects.

Charging Instructions

1. Insert the adapter into a power outlet.
2. Connect the adapter output to the charging base.
3. Place the battery or the radio with the battery into the charging base.
4. Ensure the battery makes good contact with the charging contacts. The charger indicator will turn red, indicating charging has started.
5. When the charging base indicator turns green and stays lit, charging is complete. You may now remove the battery or the radio from the battery for use.

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

Maintenance and Cleaning

- Do not hold the radio by the antenna or external microphone.
- Use a lint-free cloth to wipe dust and stains off the radio to prevent poor contact.
- Cover the earphone jack when the radio is not in use.
- After prolonged use, keys, control knobs, and the casing may become dirty. Clean them with a mild detergent (avoid strong corrosive chemicals) and a damp cloth.

Accessory Installation

●Installing/Removing the Battery

To install the battery pack, insert the top ends of the battery into the radio's top slots, then press down until you hear a "click."

To remove the battery, ensure the radio is turned off, pull down the bottom battery latch, and remove the battery when it clicks open.

●Installing/Removing the Antenna

Hold the antenna base and screw it clockwise into the antenna port on the top of the radio until tight. To remove, unscrew it counterclockwise.

●Installing/Removing the Belt Clip

If necessary, attach the provided belt clip to the screw hole on the back of the battery pack for convenience. To remove, unscrew the two screws.

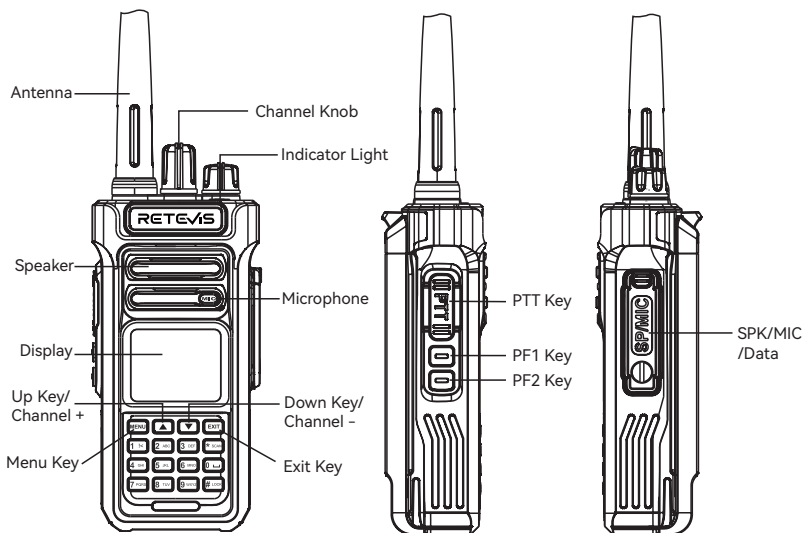
●Installing the Radio Lanyard

Thread the radio lanyard through the loop in the middle of the radio.

●Installing Optional Speaker/Microphone Headset

Remove the earphone cover and attach the speaker/microphone headset directly.

Familiarizing with the Device



【PTT】 Key

Press and hold the PTT key to transmit; the red light turns on. Speak into the microphone, and the other party will hear your message. Release the PTT key to receive messages; the green light turns on when receiving.

【PF1】 Key

Short Press: Off, Scan, Alarm, Monitor, VOX, Revert, Power, Zone, Talkaround, Group, NOAA, Search, Radio.

Long Press: Off, Scan, Alarm, Monitor, VOX, Revert, Power, Zone, Talkaround, Group, NOAA, Search, Radio, 2ndPTT.

【PF2】 Key

Short Press: Off, Scan, Alarm, Monitor, VOX, Revert, Power, Zone, Talkaround, Group, NOAA, Search, Radio.

Long Press: Off, Scan, Alarm, Monitor, VOX, Revert, Power, Zone, Talkaround, Group, NOAA, Search, Radio, 2ndPTT.

【MENU】 Key

Access the main menu and confirm selections within the menu.

【EXIT】 Key

Toggle between main interfaces A/B and return within the menu.

【▲】 Up key

Cycle through channels upward on the main interface; cycle through menu options upward within the menu.

【▼】 Down key

Cycle through channels downward on the main interface; cycle through menu options downward within the menu.

【*】 Key

Short press to toggle between channel mode and frequency mode on the main interface or in radio mode; long press to activate scanning.

【#】 Key

Long press on the main interface to lock the keyboard; short press during frequency scanning to restart scanning.

Menu Functions

1.Squelch Level (Squelch)

Squelch levels range from 0-9.

a.Press the 【MENU】 key to enter selection.

b.Use the 【▲】 or 【▼】 key to select the squelch level, then press the 【MENU】 key to confirm.

c. Use the 【▲】 or 【▼】 key to choose the desired squelch level (0-9), then press the 【MENU】 key to save.

2.Transmit Power (TX Power)

Transmit power options include high, middle, Low.

a.Press the **【MENU】** key to enter menu selection.

b.Use the **【▲】** or **【▼】** key to select transmit power, then press the **【MENU】** key to enter the next menu.

c.Use the **【▲】** or **【▼】** key to choose High, Middle, or Low power, then press the **【MENU】** key to save.

3.Transmit/Receive CTCSS/DCS (RT QtDcs)

The selectable CTCSS/DCS range is 67–754I. Short-press **【*】** once to switch to analog CTCSS (67–254.1). Press it a second time to switch to normal polarity DCS (D023N–D754N). When in normal polarity DCS, press **【#】** to change to reverse polarity DCS (D023I–D751I). Use the **【▲】** or **【▼】** key to select the required CTCSS/DCS.

Note: You can use the number keys to enter either custom CTCSS/DCS or standard CTCSS/DCS group numbers;

The input range for custom CTCSS is 58.0Hz–259.9Hz, and for custom DCS it is D000N/I–D777N/I;

Standard CTCSS group numbers range from 00–49, and standard DCS group numbers range from 000–104. These inputs correspond to the standard tone/code groups;

Whether in custom input mode or standard input mode, using the **【▲】** or **【▼】** key will always scroll through the standard groups;

In the CTCSS/DCS setup submenu, short-press **【PF2】** to toggle between custom input mode and standard input mode. When in custom mode, the LCD will display an “NS” icon after the tone or DCS code as a reminder.

a.Press the **【MENU】** key to enter menu selection.

b.Use the **【▲】** or **【▼】** key to select receive CTCSS/DCS, then press the **【MENU】** key to enter the next menu.

c.Use the **【▲】** or **【▼】** key to choose the desired tone/code from 67–754I, then press **【MENU】** key to save.

4.Receive CTCSS/DCS (RX QtDcs)

The selectable receive CTCSS/DCS range is 67–754I. Short-press **【*】** once to switch to analog CTCSS (67–254.1). Press it a second time to switch to normal polarity DCS (D023N–D754N). When in normal polarity DCS, press **【#】** to change to reverse polarity DCS (D023I–D751I). Use the **【▲】** or **【▼】** key to select the desired tone or code.

Note: You can also use the number keys to enter either custom CTCSS/DCS or standard CTCSS/DCS group numbers;

The input range for custom CTCSS is 58.0Hz–259.9Hz, and for custom DCS it is D000N/I–D777N/I;

Standard CTCSS group numbers range from 00–49, and standard DCS group numbers range from 000–104. These correspond to the standard group codes;

Whether the radio is set to custom or standard input mode, pressing the **【▲】** or **【▼】** key will always scroll through the standard groups;

In the CTCSS/DCS setup submenu, short-press **【PF2】** to toggle between custom and standard input modes. When custom mode is selected, the LCD will display an “NS” icon after the frequency or DCS code as a reminder.

a.Press the **【MENU】** key to enter menu selection.

b.Use the **【▲】** or **【▼】** key to select transmit CTCSS/DCS, then press the **【MENU】** key to enter the next menu.

c.Use the **【▲】** or **【▼】** key to choose the desired tone/code from 67–754I, then press

【MENU】 key to save.

5. Transmit CTCSS/DCS (TX QtDcs)

The selectable receive CTCSS/DCS range is 67–754I. Short-press 【*】 once to switch to analog CTCSS (67–254.1). Press it a second time to switch to normal polarity DCS (D023N–D754N). When in normal polarity DCS, press 【#】 to change to reverse polarity DCS (D023I–D751I). Use the 【▲】 or 【▼】 key to select the desired tone or code.

Note: You can also use the number keys to enter either custom CTCSS/DCS or standard CTCSS/DCS group numbers;

The input range for custom CTCSS is 58.0Hz–259.9Hz, and for custom DCS it is D000N/I–D777N/I;

Standard CTCSS group numbers range from 00–49, and standard DCS group numbers range from 000–104. These correspond to the standard group codes;

Whether the radio is set to custom or standard input mode, pressing the 【▲】 or 【▼】 key will always scroll through the standard groups;

In the CTCSS/DCS setup submenu, short-press 【PF2】 to toggle between custom and standard input modes. When custom mode is selected, the LCD will display an “NS” icon after the frequency or DCS code as a reminder.

d. Press the 【MENU】 key to enter menu selection.

e. Use the 【▲】 or 【▼】 key to select transmit CTCSS/DCS, then press the 【MENU】 key to enter the next menu.

a. Use the 【▲】 or 【▼】 key to choose the desired tone/code from 67–754I, then press 【MENU】 key to save.

6. Dual Standby (D-Standby)

D-standby options include Off (single standby) and On (dual standby). When in dual standby mode, the radio can receive information from both A and B segments, prioritizing the first received signal.

a. Press the 【MENU】 key to enter menu selection.

b. Use the 【▲】 or 【▼】 key to select dual standby, then press the 【MENU】 key to enter the next menu.

c. Use the 【▲】 or 【▼】 key to choose Off or On, then press the 【MENU】 key to save.

7. Beep Tone (Beep)

The beep can be set to Off or On. When enabled, a tone will sound during key operations and at power-on. When disabled, no tone will be heard.

a. Press the 【MENU】 key to enter menu selection.

b. Use the 【▲】 or 【▼】 key to select Beep, then press 【MENU】 to enter the next menu.

c. Use the 【▲】 or 【▼】 key to select Off or On, then press 【MENU】 key to save.

8. Voice Prompt (Voice)

Voice options include Off and On. When enabled, the radio announces channel numbers during channel switching; no announcement when disabled.

a. Press the 【MENU】 key to enter menu selection.

b. Use the 【▲】 or 【▼】 key to select voice prompt, then press the 【MENU】 key to enter the next menu.

c. Use the 【▲】 or 【▼】 key to choose Off or On, then press the 【MENU】 key to save.

9. LCD Backlight (Backlight)

The backlight duration can be set to Always, or to 5s, 10s, 15s, or 20s, in 5-second increments.

- a. Press the **[MENU]** key to enter menu selection.
- b. Use the **[▲]** or **[▼]** key to select Backlight, then press **[MENU]** to enter the next menu.
- c. Use the **[▲]** or **[▼]** key to select Always On or a duration between 5–20 seconds, then press **[MENU]** key to save.

10.VOX Sensitivity (VOX Sens)

VOX sens options include Off and levels 1–9 (1 being the least sensitive, 9 being the most).

- a. Press the **[MENU]** key to enter menu selection.
- b. Use the **[▲]** or **[▼]** key to select VOX sensitivity, then press the **[MENU]** key to enter the next menu.
- c. Use the **[▲]** or **[▼]** key to choose Off or the desired sensitivity level, then press the

[MENU] key to save.

11.VOX Delay (VOX Delay)

The VOX delay determines how long the radio continues transmitting after speech stops.

Available settings are 0.3s, 0.5s, 1s, 1.5s, 2.0s, and 3.0s.

- a. Press the **[MENU]** key to enter menu selection.
- b. Use the **[▲]** or **[▼]** key to select VOX Delay, then press **[MENU]** key to enter the next menu.
- c. Use the **[▲]** or **[▼]** key to select Off or a delay time from 0.3–3.0 seconds, then press **[MENU]** key to save.

12.Transmit Timeout (TOT)

TOT options include Off, 30S, 60S, 90S, 120S, 150S, 180S, 210S, 240S, and 270S.

- a. Press the **[MENU]** key to enter menu selection.
- b. Use the **[▲]** or **[▼]** key to select transmit timeout, then press the **[MENU]** key to enter the next menu.
- c. Use the **[▲]** or **[▼]** key to choose Off or the desired timeout duration, then press the **[MENU]** key to save.

13.Timeout Warning (TOT Warn)

TOT Warn options include Off and 1–10S. When enabled, a warning sounds before the set transmit timeout to indicate that the transmission cutoff is imminent.

- a. Press the **[MENU]** key to enter menu selection.
- b. Use the **[▲]** or **[▼]** key to select timeout warning, then press the **[MENU]** key to enter the next menu.
- c. Use the **[▲]** or **[▼]** key to choose Off or the desired warning time, then press the **[MENU]** key to save.

14.Timeout Penalty (TOT Pena)

TOT Pena options include Off, 10S, 20S, 30S, 40S, 50S, and 60S. This sets the duration before transmission can resume after a transmit timeout.

- a. Press the **[MENU]** key to enter menu selection.
- b. Use the **[▲]** or **[▼]** key to select timeout penalty, then press the **[MENU]** key to enter the next menu.
- c. Use the **[▲]** or **[▼]** key to choose Off or the desired penalty time, then press the **[MENU]** key to save.

15.Callback Hang (Callback)

Callback options include Off, 5S, 10S, 15S, and 20S. When dual standby is enabled, this setting determines how long you can directly reply to a sub-segment carrier signal before it expires.

- Press the **[MENU]** key to enter menu selection.
- Use the **[▲]** or **[▼]** key to select callback hang, then press the **[MENU]** key to enter the next menu.
- Use the **[▲]** or **[▼]** key to choose Off or the desired hang time, then press the **[MENU]** key to save.

16Automatic Number Identification (ANI)

ANI options include Off and On.

- Press the **[MENU]** key to enter menu selection.
- Use the **[▲]** or **[▼]** key to select ANI, then press the **[MENU]** key to enter the next menu.
- Use the **[▲]** or **[▼]** key to choose Off or On, then press the **[MENU]** key to save.

17.Receive Power Save (Save Mode)

The save mode function offers the following options: Off, Primary (PRIN), Intermediate (IM), Advanced, and Super. Off has no display and does not save power, Primary (PRIN) saves power with a red SAV icon, Intermediate (IM) shows a yellow SAV, Advanced shows a white SAV, and Super shows a green SAV.

- Press the **[MENU]** key to enter menu selection.
- Use the **[▲]** or **[▼]** key to select receive power save, then press the **[MENU]** key to enter the next menu.
- Use the **[▲]** or **[▼]** key to choose the desired power-saving level, then press the **[MENU]** key to save.

18.Scan Mode (SCN-REV)

SCN-REV options include TO (Time), CO (Carrier), and SE (Search).

Search: Stops on the detected signal and remains on that channel;

Carrier: After detecting a signal, if no signal is sent or received for about 5 seconds, scanning resumes;

Time: Stops on the detected signal for a while, then continues scanning.

- Press the **[MENU]** key to enter menu selection.
- Use the **[▲]** or **[▼]** key to select scan mode, then press the **[MENU]** key to enter the next menu.
- Use the **[▲]** or **[▼]** key to choose TO, CO, or SE, then press the **[MENU]** key to save.

19.Squelch Tail Elimination (STE)

The STE function can be set to Off or On.

- Press the **[MENU]** key to enter the menu.
- Use the **[▲]** or **[▼]** key to select STE, then press **[MENU]** key to enter the next menu.
- Use the **[▲]** or **[▼]** key to select Off or On, then press **[MENU]** key to save.

20.Transmit Tone (TX tone)

TX tone options include Off, BOT (Beginning), Roger (End), and Both.

- Press the **[MENU]** key to enter menu selection.
- Use the **[▲]** or **[▼]** key to select TX tone, then press the **[MENU]** key to enter the next menu.

c. Use the **【▲】** or **【▼】** key to choose Off, BOT, Roger, or Both, then press the **【MENU】** key to save.

21. Main Frequency Switch (Main SEL) (Used in dual standby mode)

The Main SEL can be set to Off, On, or Auto. When set to Off, if the sub-channel has a carrier, the main indicator "MAIN" remains unchanged; during the hang time, it can respond, but manual transmission authority switching is not allowed. When set to On, if the sub-channel has a carrier, the main indicator "MAIN" remains unchanged; during the hang time, it can respond, and manual transmission authority switching is allowed. When set to Auto, if the sub-channel has a carrier, the main indicator "MAIN" will automatically switch transmission authority, and manual switching is also allowed.

a. Press the **【MENU】** key to enter menu selection.

b. Use the **【▲】** or **【▼】** key to select Main SEL, then press **【MENU】** key to enter the next menu.

c. Use the **【▲】** or **【▼】** key to select Off, On, or Auto, then press **【MENU】** key to save.

22. Signal Ignorance (QtDcs IGN)

QtDcs IGN options include Off and On. When enabled, temporary CTCSS/DCS tones are ignored; when disabled, CTCSS/DCS tones continue to function for all channels' receive squelch conditions.

a. Press the **【MENU】** key to enter menu selection.

b. Use the **【▲】** or **【▼】** key to select QtDcs IGN, then press the **【MENU】** key to enter the next menu.

c. Use the **【▲】** or **【▼】** key to choose Off or On, then press the **【MENU】** key to save.

23. Auto Keyboard Lock (Autolock)

Autolock options include Off and On. This function prevents accidental key presses. When enabled, the keyboard locks after 30 seconds of inactivity. Long press for over 2 seconds to unlock.

a. Press the **【MENU】** key to enter menu selection.

b. Use the **【▲】** or **【▼】** key to select Autolock, then press the **【MENU】** key to enter the next menu.

c. Use the **【▲】** or **【▼】** key to choose Off or On, then press the **【MENU】** key to save.

24.24/25 Side Key 1 /26/27 Side Key 2 (PF1/PF2) (Short Press (Short) /Long Press (Long))

1)Off: Disabled, no function.

2)Scan: Press to enable scanning of the added channels. Press again to stop scanning.

3)Alarm: Press to activate the alarm. Alarm modes include Local and Remote. Local: The radio itself emits a continuous beep; Remote: Both this radio and the receiving radio beep simultaneously for 10 seconds, then pause 10 seconds, repeating indefinitely. Press **【PTT】** to cancel the alarm.

4)Monitor: Press to listen to activity on the selected channel. Press again to turn off the monitor function.

5)VOX: When enabled, voice-activated transmission is used; no need to press the PTT key. Transmission stops automatically after speaking ends.

6)Revert: In cross-frequency mode, press to enable revert frequency mode, where the transmit and receive frequencies are swapped. (This is temporarily enabled; switching channels or frequencies will disable it. It will be saved if the radio is restarted.)

7)Power: Press repeatedly to select High, Medium, or Low transmit power.

- 8)Zone: Press repeatedly to select I (Zone 1), II (Zone 2), III (Zone 3), or IV (Zone 4).
- 9)Talkaround: In cross-frequency mode, press to enable talkaround mode. The transmit frequency will match the receive frequency, bypassing the repeater. (Switching channels or frequencies will disable this function; the setting is saved after a reboot.)
- 10)Group: After enabling the group call function, use **[▲]** or **[▼]** key to select a group call (CALL) or a specific ID for individual call mode.
- 11) NOAA: Select to enter the weather mode, and press the up **[▲]** or down **[▼]** key to select the weather channel.
- 12)Search: Frequency search enable. When turned on, the radio scans transmitter frequencies and sub-audio tones. After a successful scan, use **[▲]** or **[▼]** key to select a channel to save, then press **[MENU]** to save. Press **[#]** to restart scanning, and **[*]** to switch between UHF and VHF scanning.
- 13)Radio: Radio function on/off. Press once to turn on the radio; while on, press **[*]** key to switch radio frequency or channel mode. Press again to turn off the radio.
- 14)2ndPTT: Secondary channel PTT key. (This works only with a long press. If a programmable key is set to transmit on a defined frequency, short press is disabled, and it functions only as a secondary PTT.)
- Press the **[MENU]** key to enter menu selection.
 - Use the **[▲]** or **[▼]** key to select Side Key 1 or Side Key 2, then press **[MENU]** key to enter the next menu.
 - Use the **[▲]** or **[▼]** key to choose the desired function: Off, Scan, Emergency Alarm, Monitor, VOX, Revert, Power Adjustment, Zone, Talkaround, Group Call, Frequency Search, Radio, or 2ndPTT, then press **[MENU]** key to save.

28.Priority Channel (PRI CH)

The priority channel is used for priority scanning. One channel can be designated as the priority channel in each zone. There are four zones: I (Zone 1), II (Zone 2), III (Zone 3), and IV (Zone 4), with up to 64 channels available per zone.

- Press the **[MENU]** key to enter menu selection.
- Use the **[▲]** or **[▼]** key to select priority channel, then press the **[MENU]** key to enter the next menu.
- Use the **[▲]** or **[▼]** key to choose the desired priority channel (CH001 to the maximum number of channels in the zone), then press the **[MENU]** key to save.

29.Dual Watch (DW)

Dual Watch options include Off and On. When enabled in FM radio mode, the radio receives carrier signals and switches to them. If no signal is received for 5 seconds, it returns to FM radio mode. When disabled, carrier signals are ignored in FM radio mode.

- Press the **[MENU]** key to enter menu selection.
- Use the **[▲]** or **[▼]** key to select Dual Watch, then press the **[MENU]** key to enter the next menu.
- Use the **[▲]** or **[▼]** key to choose Off or On, then press the **[MENU]** key to save.

30.Channel A Display Mode (MDF-A)

Channel A display mode has three options: Name, MR (Channel Frequency), and CH (Channel Number).

- Press the **[MENU]** key to enter menu selection.
- Use the **[▲]** or **[▼]** key to select Channel A Display Mode (MDF-A), then press **[MENU]** key to enter the next menu.
- Use the **[▲]** or **[▼]** key to select Name, MR, or CH, then press **[MENU]** key to save.

31.Channel B Display Mode (MDF-B)

Channel B display mode has three options: Name, MR (Channel Frequency), and CH (Channel Number).

- a.Press the **[MENU]** key to enter menu selection.
- b.Use the **[▲]** or **[▼]** key to select Channel B Display Mode (MDF-B), then press **[MENU]** key to enter the next menu.
- c.Use the **[▲]** or **[▼]** key to select Name, MR, or CH, then press **[MENU]** key to save.

32.Scan (Scan)

Options: Add, Delete. When using the scan function, select Add if a channel needs to be scanned, or Delete if it does not.

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** key to select Scan, then press **[MENU]** key to enter the next menu.
- c.Press **[▲]** or **[▼]** key to select Add or Delete, then press **[MENU]** key to save.

33.Bandwidth (Bandwith)

Options: Wide (25KHz), Narrow (12.5KHz).

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** key to select Bandwidth, then press **[MENU]** key to enter the next menu.
- c.Press **[▲]** or **[▼]** key to select Wide or Narrow, then press **[MENU]** key to save.

34.Denoise (Denoise)

Options: Off, On. When enabled, background noise is suppressed, and only the voice is transmitted.

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** key to select Denoise, then press **[MENU]** key to enter the next menu.
- c.Press **[▲]** or **[▼]** key to select Off or On, then press **[MENU]** key to save.

35.Busy Lock (Busy Lock)

Options: Off: transmission always allowed. QtDcs: transmission blocked when CTCSS/DCS tones match. Carrier: transmission blocked when carrier is present.

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** key to select Busy Lock, then press **[MENU]** key to enter the next menu.
- c.Press **[▲]** or **[▼]** key to select Off, QtDcs, or Carrier, then press **[MENU]** key to save.

36.Audio Settings (Audio)

Options: Off, Compand. Off: normal communication. Compand: reduces background noise during transmission (requires all communicating radios to enable).

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** key to select Audio, then press **[MENU]** key to enter the next menu.
- c.Press **[▲]** or **[▼]** to select Off, or Compand, then press **[MENU]** key to save

37.Microphone Sensitivity (MIC Sens)

Options: Standard, High.

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** key to select MIC Sens, then press **[MENU]** key enter the next menu.
- c.Press **[▲]** or **[▼]** key to select Standard or High, then press **[MENU]** key to save.

38.Store Channel (Store CH)

Up to 64 channels can be stored per zone.

This function saves frequency information (set in Frequency Mode) to a channel (CH01–CH256).

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** key to select Store CH, then press **[MENU]** key to enter the next menu.
- c.Press **[▲]** or **[▼]** key to select the desired channel, then press **[MENU]** key to save.

39.Delete Channel (Delete CH)

Deletes information stored in a channel (CH001–CHxxx). Each zone supports up to 64 channels.

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** key to select Delete CH, then press **[MENU]** key to enter the next menu.
- c.Press **[▲]** or **[▼]** key to select the desired channel, then press **[MENU]** key to save.

40.Reset (Reset)

Options: Mainsets: reset menu settings only. QtDcs: reset CTCSS/DCS settings only. Full: reset both menu and CTCSS/DCS settings. HW.VER: view firmware version. Press **[MENU]** key, then enter password “9295” to display the version.

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** to select Reset, then press **[MENU]** key to enter the next menu.
- c.Press **[▲]** or **[▼]** key to select Mainsets, QtDcs, Full, or HW.VER, then press **[MENU]** to confirm.

41.CTCSS/DCS Switch (QtDcs SW)

Options: Off, On.

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** key to select QtDcs SW, then press **[MENU]** key to enter the next menu.
- c.Press **[▲]** or **[▼]** key to select Off or On, then press **[MENU]** key to save.

42.NOAA Warn (NOAA Warn)

The NOAA warn switch has two options: Off and On. When enabled, your radio can respond to NOAA weather broadcast emergency messages. A special alert tone will sound and the weather receiver will activate to provide you with immediate weather and emergency information.

- a.Press **[MENU]** key to enter menu selection.
- b.Press **[▲]** or **[▼]** key to select NOAA warn, then press **[MENU]** key to enter the next menu.
- c.Press **[▲]** or **[▼]** key to select Off or On, then press **[MENU]** key to save.

43.Weather Channel (Weather)

The weather channel function can be used in the United States and Canada as required. You can listen to weather channels (for details, please refer to the Weather Channels and Frequencies table).

When you are listening to a weather channel, you cannot use the radio in scan mode or two-way communication.

Both NOAA and Environment Canada have transmitters across the United States and Canada. These transmitters broadcast 24 hours a day with forecasts and other information.

a.Press **[MENU]** key to enter menu selection.

b.Press **[▲]** or **[▼]** key to select Weather Channel, then press **[MENU]** key to enter the next menu.

c.Press **[▲]** or **[▼]** key to select one of the 1–12 channels as required, then press **[MENU]** key to save.

44.Alarm Mode (Alarm Mod)

Options: Local, Remote.

a.Press **[MENU]** key to enter menu selection.

b.Press **[▲]** or **[▼]** key to select Alarm Mod, then press **[MENU]** key to enter the next menu.

c.Press **[▲]** or **[▼]** key to select Local or Remote, then press **[MENU]** key to save.

45.Frequency Save after Scan (DeFREQ Sav)

Options: Off, On. When enabled, successful scan results can be saved.

a.Press **[MENU]** key to enter menu selection.

b.Press **[▲]** or **[▼]** key to select DeFREQ Sav, then press **[MENU]** key to enter the next menu.

c.Press **[▲]** or **[▼]** key to select Off or On, then press **[MENU]** key to save.

46.Single Tone Signaling (TBST Freq)

Available audio tones: 1000Hz, 1450Hz, 1750Hz, and 2100Hz. After setting the single tone signaling frequency, press and hold the PTT key, then press the PF1 key on the standby main screen to transmit the burst tone.

a.Press **[MENU]** key to enter menu selection.

b.Press **[▲]** or **[▼]** key to select TBST Freq, then press **[MENU]** key to enter the next menu.

c.Press **[▲]** or **[▼]** key to select the desired 1000Hz、1450Hz、1750Hz、2100Hz frequency, then press **[MENU]** key to save.

47.Menu Language (Language)

Options: Chinese, English.

a.Press **[MENU]** key to enter menu selection.

b.Press **[▲]** or **[▼]** key to select Language, then press **[MENU]** key to enter the next menu.

c.Press **[▲]** or **[▼]** key to select Chinese or English, then press **[MENU]** key to save.

Group Call Function

1)Group Number: All members in the same group must use the same group number, otherwise group communication will not work.

2)Radio ID: Each member in a group must set a unique ID for identification. A group can support up to 50 members. Each member may set an ID code (up to 8 characters: numbers, uppercase/lowercase letters).

3)Encode Delay: The delay time before sending a group call command.

4)Auto Reset: After sending or receiving a group call, you may press PTT directly to talk again without repeating the group call command. If the idle time exceeds the preset duration, you must initiate the group call again.

5) Caller ID Display / Menu 16 Identification: When enabled, the sender's ID information will be displayed at the top of the LCD.

6) Group Switch (Channel Information): Ensure that the channel to be used for group communication is set to Group: On.

Sending Group Selective Call / Group Call

1) Assign the side key to Group Call/Group. Ensure the main channel is a group channel.

2) Press the side key set to Group Call to enter the transmit interface;

LCD top displays A/B → XX; A/B indicates channel A or B transmission, XX indicates the recipient ID. 123456; 123456: displays the recipient's ID code.; If XX is blank and the code is @All, it means a group call is being sent.

3) Use the up/down keys or numeric keypad to select the desired ID.

4) After selection, press PTT to transmit.

Weather Channels

WX1	162.550	WX7	162.525
WX2	162.400	WX8	161.650
WX3	162.475	WX9	161.750
WX4	162.425	WX10	161.775
WX5	162.450	WX11	162.000
WX6	162.500	WX12	163.275

Frequency Table

Channel	RX Frequency	TX Frequency	Max Power Output
1	462.56250	462.56250	5W
2	462.58750	462.58750	5W
3	462.61250	462.61250	5W
4	462.63750	462.63750	5W
5	462.66250	462.66250	5W
6	462.68750	462.68750	5W
7	462.71250	462.71250	5W
8	467.56250	462.56250	0.5W
9	467.58750	467.58750	0.5W
10	467.61250	467.61250	0.5W
11	467.63750	467.63750	0.5W
12	467.66250	467.66250	0.5W
13	467.68750	467.68750	0.5W
14	467.71250	467.71250	0.5W
15	462.55000	462.55000	5W
16	462.57500	462.57500	5W
17	462.60000	462.60000	5W
18	462.62500	462.62500	5W
19	462.65000	462.65000	5W
20	462.67500	462.67500	5W
21	462.70000	462.70000	5W
22	462.72500	462.72500	5W
23	462.55000	467.55000	5W
24	462.57500	467.57500	5W
25	462.60000	467.60000	5W
26	462.62500	467.62500	5W
27	462.65000	467.65000	5W
28	462.67500	467.67500	5W
29	462.70000	467.70000	5W
30	462.72500	467.72500	5W
Group Call	462.72500	462.72500	5W

CTC and DCS Lists

CTCSS/DCS

CTCSS List (Hz)									
No.	CTCSS	No.	CTCSS	No.	CTCSS	No.	CTCSS	No.	CTCSS
1	67.0	2	69.3	3	71.9	4	74.4	5	77.0
6	79.7	7	82.5	8	85.4	9	88.5	10	91.5
11	94.8	12	97.4	13	100.0	14	103.5	15	107.2
16	110.9	17	114.8	18	118.8	19	123.0	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 List									
No.	DCS-N	No.	DCS-N	No.	DCS-N	No.	DCS-N	No.	DCS-N
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

DCS CODELIST

No.	DCS-I	No.	DCS-I	No.	DCS-I	No.	DCS-I	No.	DCS-I
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
206	D731I	207	D732I	208	D734I	209	D743I	210	D754I

Specifications

General Specifications	
Frequency Range	GMRS
Standby Current	< 70mA (Screen Off)
Charging Time	< 7.5h
Charging Current	400-600mA
Audio Distortion	≤5%
Frequency Stability	±2.5ppm
Modulation	FM
Receiving Sensitivity	≤-122dBm(12dB)
Operating Temperature	-20 ~ +55°C (Charging: < 40°C)
Adjacent Channel Selectivity	≥65dB
Spurious Response Rejection	≥55dB
Intermodulation Rejection	≥60dB
Transmit Current	≤2.7A
Operating Voltage	7.4V DC

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



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



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/uncontrolled use”. General population/uncontrolled environments are defined as locations where there is exposure of individuals who have no knowledge or control of RF exposure level.

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 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.

- 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.

Batteries Safety

• **WARNING: KEEP NEW OR OLD USED BATTERIES OUT OF REACH OF CHILDREN.**



• 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 °C and +25 °C and never exceed +30 °C. 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 (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.

• Batteries shall be charged at 10°C~40°C environment temperature specified. If the environment temperature is lower than 0°C, the charge shall be prohibited.

• Rechargeable batteries are only to be charged by adults.

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 8 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.

WARNING: CHOKING HAZARD—Small Parts. Not suitable for children under 3 years old.

The plug of the adapter is considered a disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible.



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.
 - 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.

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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

说明书印刷要求：

尺寸：120*160mm

样式：胶装

印刷：黑色， 质保卡为单独一页

纸张：双胶纸

此面不用印刷