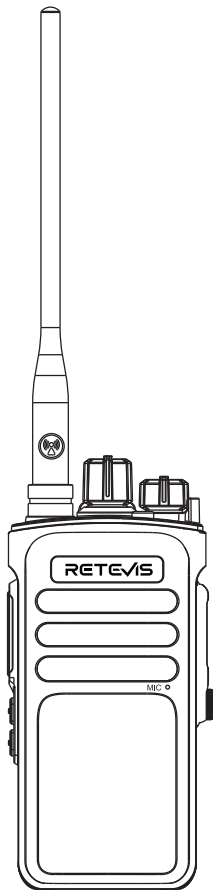


RETEVIS



NR40
USER'S MANUAL

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EN(1-16)

DE(17-34)

EU

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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.

EN: Note: To protect the environment and save paper, please consult our customer service or scan the QR code to download the user manual in multiple languages, including English, French, German, Italian, Spanish, Russian

DE: Hinweis: Um die Umwelt zu schützen und Papier zu sparen, wenden Sie sich bitte an unseren Kundenservice oder scannen Sie den QR-Code, um das Benutzerhandbuch in mehreren Sprachen herunterzuladen, darunter Englisch, Französisch, Deutsch, Italienisch, Spanisch, Russisch.

FR: Remarque : Pour protéger l'environnement et économiser du papier, veuillez consulter notre service client ou scanner le code QR pour télécharger le manuel d'utilisation en plusieurs langues, y compris l'anglais, le français, l'allemand, l'italien, l'espagnol, le russe.

IT: Nota: Per proteggere l'ambiente e risparmiare carta, consultare il nostro servizio clienti o scansionare il codice QR per scaricare il manuale utente in più lingue, tra cui inglese, francese, tedesco, italiano, spagnolo, russo.

ES: Nota: Para proteger el medio ambiente y ahorrar papel, consulte a nuestro servicio de atención al cliente o escanee el código QR para descargar el manual del usuario en varios idiomas, incluyendo inglés, francés, alemán, italiano, español, ruso.

RU: Примечание: Чтобы защитить окружающую среду и сэкономить бумагу, обратитесь в нашу службу поддержки клиентов или отсканируйте QR-код для загрузки руководства пользователя на нескольких языках, включая английский, французский, немецкий, итальянский, испанский, русский.



SPECIFICATION

Channel Number	2 Zones*128 Channels
Power	≤5W
Channel Spacing	Wide band:25kHz Narrow band:12.5kHz
Antenna Impedance	50Ω
Operating Temperature	-10°C ~ 45°C (Charging: 10~40°C)
Operating Voltage	DC7.4V
IP Protection Level	IP67
Dimension(Excluding antenna)	126*58*36mm (Not including knob and antenna)

TRANSMITTER

Modulation	≤-45dB
RF Power	≤5W
Free Time Slot Power	≤-57dB
Audio Distortion	≤5%
Modulation BER(Bit Error Rate)	≤3%

RECEIVER

Sensitivity	≤-122dBm@SINAD=12dB
Adjacent Channel Selectivity	≥70dB
Inter-modulation	≥65dB
Block	≥84dB
S/N	45dB
Audio Output Power	750mW
Audio Distortion	≤5%

Main Functions and Features

- English/Chinese Voice Prompts
- Monitor
- 2 Zones*128 Channels
- AES256
- High/Low Power Adjustable
- VOX
- TOT
- Power Save/Low Power Alarm
- Battery Indicator
- Talk around
- Lone Worker
- Scan
- Emergency Alarm
- All Call/Group Call/Private Call
- Smart Volume
- Scan
- One Key Call
- Noise Reduction
- Record
- CTCSS/DCS

Unpacking and Checking Equipment

Welcome to use our transceiver, before use, we suggest you:

- Check the packing box whether it has been damaged.
- Please unpack the box carefully, and check if it includes all items that supplied below. If any item is found missing or damaged during shipment, please notify your dealer.

Charging The Battery

Please use our company's official charger, and follow the steps below to charge the battery.

1. Connect the charger to the power supply socket.
2. Install the battery or the transceiver with battery, then the light turns red, indicating that the battery is being charged.
3. If the red light is off while the green light is on, this indicates that the battery is fully charged.
4. Unplug the charger from the power supply socket, and remove the battery.

Battery Information

The battery is not fully charged in the factory, please charge it before use.

Charge the battery for the first time after purchase or extended storage (more than 2 months) - may not bring the battery to its normal operating capacity. After repeating fully charge/discharge for two or three times, the operating capacity will reach the best performance.



Please do not continue charging when the battery is full-charged situation, otherwise will shorten the life of battery.

Notice

1. The ambient temperature should be between 5°C and 40°C while charging. If beyond this temperature, battery can not be fully charged.
So please prepare spare battery as backup during cold weather. Do not throw away those batteries which can not be used at this time, they may be used in normal temperature.
2. When the battery contacts are dirty or stained, this will affect the normal use of the battery charging. Please wipe clean and then start charge.
3. Before charging, turn off the radio, or it will affect the normal charging.
4. When the battery or radio is wet, do not charge the battery. Please dry it before use.
5. After the battery has been properly charged, if the battery capacity still can not return to normal capacity, that means battery life is end, please replace it.

Battery Type

Please charge the battery with our company official battery. Use other battery types may cause explosion and injure people.

Safety Precautions

1. Do not throw batteries into fire.
2. Do not attempt to disassemble the battery pack housing.

Battery storage

1. Battery has the phenomenon of self-discharge, therefore, if the battery is not in use for a long time, please be fully charged first before storage, this is to void battery damage due to

excessive self-discharge.

2. After a period of storage, battery needs to be charged, in order to avoid excessive self-discharge to reduce the battery capacity. Battery storage is recommended after 6 months battery charge.

3. Please pay attention to the temperature and humidity of the battery storage environment.. Keep the battery in a cool, dry conditions room to decrease battery self-discharge.

Installing/Removing Accessories

Installing/Removing Battery Pack

Note:

- Do not short-circuit the battery terminals or expose the battery to fire.
- Do not attempt to remove the battery pack casing.
- Do not install the battery pack in hazardous environments where sparks may cause an explosion.

Installation: Place the battery pack into the battery compartment of the walkie-talkie and push it forward until you hear a "click" sound.

Removal: To remove the battery pack, first ensure the walkie-talkie is turned off. Then, pull down the battery latch at the bottom of the walkie-talkie and push the battery downward to detach it from the walkie-talkie.

Installing Antenna

Hold the antenna base and screw it clockwise into the interface on top of the walkie-talkie until it is tightly secured.

Installing/Removing Belt Clip

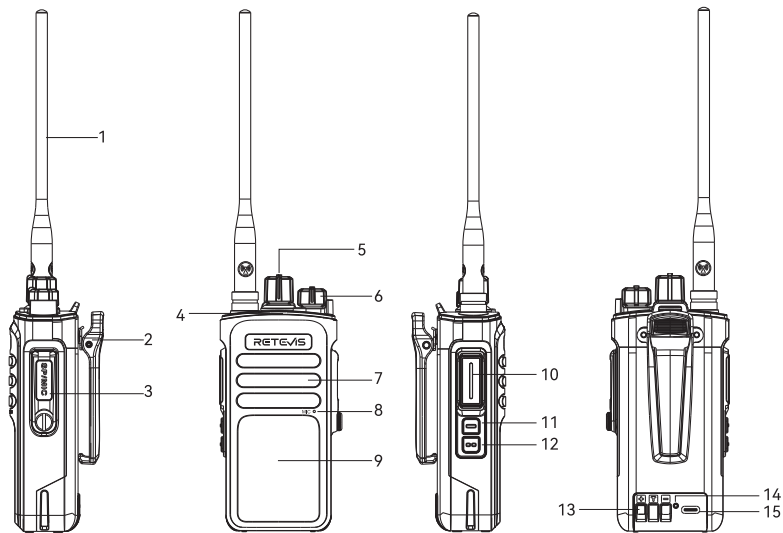
If necessary, lock the provided belt clip into the screw hole on the back of the battery pack for easy carrying.

To remove the belt clip, unscrew the two screws.

Installing Walkie-Talkie Hand Strap

Thread the walkie-talkie lanyard through the loop in the middle of the walkie-talkie.

Getting Started



- 1. Antenna
- 2. Belt Clip
- 3. MIC/SPK Interface
- 4. Indicator Light
- 5. Channel Knob
- 6. Volume/Power Knob
- 7. SPK
- 8. MIC

- 9. Display
- 10. PTT Button
- 11. PF1 Key
- 12. PF2 Key
- 13. Base Charger Interface
- 14. Charging Indicator Light
- 15. Type-C Charging Port

Remark: Different functions of Side Key 1, Side Key 2, which are used by the long press or a short press, can be defined by programming software.

The following functions can be defined:

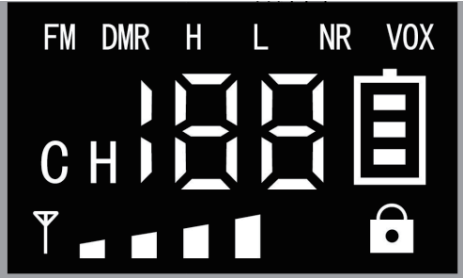
Side1,Side2 Key:

- 1.None
- 2.High and low power
- 3.Repeater&Talkaround
- 4. Zone UP
- 5. Zone Down
- 6. Lone Worker
- 7. Lock Channel
- 8. Momentary Monitor(Analog)(Long Press)

- 9. Permanent Monitor(Analog)
- 10.Power Query
- 11. Time Slot Switching
- 12.NR Enable
- 13.Vibration
- 14.One Touch Call 1
- 15.One Touch Call 2
- 16.One Touch Call 3
- 17.One Touch Call 4
- 18.One Touch Call 5
- 19.Reverse Frequency
- 20.Scan
- 21.Lone Worker
- 22.Smart Volume
- 23.Voice Playback
- 24.Radio Detection

Top Key:

- 1.Emergency On
- 2.Emergency Off



Display Description

NO.	CHAR	Description
1	H	High Power
2	L	Low Power
3	NR	Noise Reduction
4	VOX	VOX
5	DMR	DMR Mode
6	CH	Channel
7	188	Channel Number
8		Channel Lock
9		Battery Indicator
10		TX/RX Signal icon

Basic Operations

POWER ON and POWER OFF:

Rotate the Volume/Power knob clockwise until a "click" is heard, transceiver will report channel number, indicating power on detecting success.

Attention:

If your transceiver is not power on, please check the battery, and confirm if the battery has been charged and installed correctly. If it still can not be turned on, please contact with the agent.

To turn off the transceiver, please rotate the Volume/Power knob anticlockwise until a "click" is heard, then transceiver is power off.

Adjust Volume

When the transceiver is power on, rotate the Volume/Power knob to adjust the volume.

Clockwise rotation to increase the volume;

Anticlockwise rotation to decrease the volume.

Channel Selection:

Rotation the channel knob to select the desired channel. This transceiver has 256 channels.

Attention:

There are 2 zones in this transceiver, each zone has 128 channels, Zone can be selected by pre-programmed key.

Transmit

When going to transmit, press PTT key, keep microphone away from your mouth about 3-4cm, and speak in your usual tone.

Receive

Release the PTT key to receive. Adjust the suitable volume to get the best receiving result.

Function Specification

LED indicator

LED indicator shows transceiver's working status.

Red light indicates the transceiver is transmitting.

Green light indicates the transceiver is receiving non-encrypted signal or data.

Receive and Transmit Call

Zone Selection

The zone is a group of channels. The transceiver supports at most 2 zones, and each zone is not more than 128 channels.

1. Press the pre-programmed Zone UP/Down key.

2. You will hear a voice prompt announcing the current Zone.

3. Rotate the channel knob to choose the desired transmitting channel.

Receive and Reply Call

You can received or reply call after finished channel / user ID or group ID's setting. When transmitting transceiver, LED indicator turns red.

When receiving message, the LED indicator turns green.

Receive and Reply Group Call

To receive a call from a user's group, the transceiver must be configured as belonging to that group.

- 1.LED indicator turns green.
- 2.Hold the transceiver vertically and keep about 1~2inches(2.5~5.0cm) away from mouth.
- 3.Press PTT key to respond the call, LED indicator turns red.
- 4.Release PTT key to receive.

Receive and reply Individual Call

Private Call is one to one calling.

When Receiving a Private Call:

- 1.LED indicator turns green.
- 2.Hold the transceiver vertically and keep about 1~2inches(2.5~5.0cm) away from mouth.
3. Press PTT key to respond to the call, LED indicator turns red.
4. Release PTT key to receive.

Receive All Call

All Call is a call from an individual transceiver calls all transceivers at the same channel. It is used to announce something important that users must pay special attention to.

When received all call, LED indicator turns green.

Notice: when receiving all call, if you turn to another channel, the transceiver stop to receive all call. During the all call, you can not use any re-programmed key until the call finished.

Launch a Transceiver Call

You can choose a channel, user ID or talking group ID with following methods.

- Channel Knob

Launch a Group Call

To launch a group call, the transceiver must be configured as belonging to that group.

- 1.Rotate channel knob, using activated group ID to select the talking group.
- 2.Hold the transceiver vertically and keep about 1~2inches(2.5~5.0cm) 15 away from mouth.
- 3.Press PTT key to launch the call, the LED indicator turns red.
4. Release PTT key to receive, when the target transceiver is responding, LED indicator turns green.

Launch a Private Call

1. Rotate channel knob, using activated user's ID to select channel.
- 2.Hold the transceiver vertically and keep about 1~2inches(2.5~ 5.0cm) away from mouth.
3. Press PTT key to launch the call, the LED indicator turns red.
4. Release PTT key to receive, when the target transceiver is responding, LED indicator turns green.

Launch All Call

This functions allows you to transmit to all users in same channel. The transceiver must be programmed with this function, so that you can send information to every user who are under the channel.

- 1.Rotate channel knob, using activated all call talking group ID to select channel.
- 2.Hold the transceiver vertically and keep about 1~2inches(2.5~ 5.0cm) away from mouth.

3. Press PTT key to launch the call, the LED indicator turns red.

Monitor Function (Analog)

The monitor function includes instant monitoring and permanent monitoring, used for receiving weak signals. By pressing a dedicated key, the receive signal path is forcibly connected, allowing the operator to discern faint sounds from the speaker with their ears. The analog monitor mode can temporarily filter out one's CTCSS/DCS, while the analog permanent monitor mode can permanently filter out one's CTCSS/DCS.

- Edit PF1 or PF2 key for long or short press for permanent monitoring.
- Edit PF1 or PF2 key for short press for instant monitoring.

Power Switching

Edit PF1 or PF2 key for long or short press for power switching. Press the corresponding key to cycle between high and low power, with voice announcements of current high/low power status.

Repeater/Off-Network Mode

Edit PF1 or PF2 key for long or short press for off-network mode switching. Press the corresponding key to cycle between off-network mode on/off, with voice announcements of off-network mode on/off status.

In off-frequency mode, when off, it is in repeater mode, requiring conversion through a repeater for communication; when on, it is in off-network mode, converting to a straight-through mode where the transmit frequency becomes the receive frequency (both devices must have off-network mode enabled simultaneously).

Zone Up

Edit PF1 or PF2 key for long or short press for zone up. Press the corresponding key to cycle between zones, with voice announcements of Zone 1 or Zone 2 (currently only two zones available).

Zone Down

Edit PF1 or PF2 key for long or short press for zone down. Press the corresponding key to cycle between zones, with voice announcements of Zone 1 or Zone 2 (currently only two zones available).

Lone Worker

Edit PF1 or PF2 key for long or short press for lone worker mode. Press the corresponding key to cycle between lone worker mode on/off, with voice announcements of lone worker mode on/off status.

Channel Lock

Edit PF1 or PF2 key for long or short press for channel lock. Press the corresponding key to cycle between channel lock on/off, with voice announcements of locked/unlocked status. When locked, the current channel will not be changed to prevent accidental channel switching.

Battery Level Check

Assign PF1 or PF2 (short- or long-press) to battery check; the radio announces the percentage only if voice prompts are enabled.

Time Slot Switching

Edit PF1 or PF2 key for long or short press for time slot switching. Press the corresponding key to switch between time slots of the digital channel, with voice announcements of time slot 1 or time slot 2.

Noise Reduction On/Off

Edit PF1 or PF2 key for long or short press for noise reduction on/off settings. Press the corresponding key to toggle noise reduction on/off, with voice announcements of noise reduction on/off status.

Vibration Mode

Edit PF1 or PF2 key for long or short press for vibration mode settings. Press the corresponding key to toggle vibration on/off, with voice announcements of vibration on/off status. When vibration is on, the device will vibrate upon receiving a signal, with vibration times settable to 10S, 30S, 60S, or 90S. Vibration stops when the reception ends or the vibration time elapses. If vibration is set to off, the device will not vibrate upon receiving a signal.

One-key Call

Edit PF1 or PF2 key for long press for one-key call. Currently supports 5 one-touch calls. Long press PF1 or PF2 to initiate a call according to the configured transmit contact until the red light illuminates, indicating transmission has begun. This function is only available in digital channels.

Example settings

No.	Mode	Call
1	Digital	Contact1 (Single Call ID)
2	Digital	Contact2 (Single Call ID)
3	Digital	Contact3 (Single Call ID)
4	Digital	Contact4 (Single Call ID)
5	Digital	Contact5 (Single Call ID)

Reverse Frequency

Edit PF1 or PF2 key for long or short press for frequency inversion. Press the corresponding key to toggle reverse frequency on/off. After reverse frequency, the transmit and receive frequencies will be swapped.

Scan Function

The programming software must be set up with a scan list and the required members or channels to be scanned must be added.

Set PF1 or PF2 key for long or short press for scan on/off through the programming software. Press the corresponding key, and the walkie-talkie will announce "Scan started" to initiate the scan function. When a signal is detected, the green light will illuminate, indicating communication is possible; press the corresponding key again, and the walkie-talkie will announce "Scan stopped" to turn off the scan function.

VOX On/Off

Hold down the TOP key while turning on the walkie-talkie until it announces "VOX on" and displays the "VOX" icon, then release the TOP key. Speak directly into the microphone to transmit. Hold down the TOP key while turning on the walkie-talkie until it announces "VOX off" and the "VOX" icon disappears, then release the TOP key. When using VOX with headphones, VOX will automatically turn on when headphones are connected.

Lone Worker

Set PF1 or PF2 key for long or short press for lone worker mode through the programming software. Press the corresponding key to enable or disable lone worker mode. The lone worker response timer refers to the time interval setting between transmissions, which can be set from 1-255 minutes. Set the lone worker reminder time through the programming software, which refers to how much time in advance to remind of an upcoming transmission. The reminder will loop infinitely, stopping after each reminder at the set time, with an optional advance notice of 1-60 seconds. If an alarm system is selected for this channel, an alarm will be sounded after the reminder. For lone worker mode, an alarm system must be set up in advance on the transmit channel.

Intelligent Volume

Edit PF1 or PF2 key for long or short press for intelligent volume. Press the corresponding key to enable or disable intelligent volume function. When enabled, the host will detect background noise through the MIC and automatically adjust the speaker volume during reception. Background noise is only detected when the host is in standby mode; it is not detected during transmission or reception.

Recording Playback

Edit PF1 or PF2 key for long or short press for recording playback. Press the corresponding key to enable recording playback function. If there are no recording records, pressing the configured key will prompt "No records"; otherwise, it will play the recording. Press PF1 to play the previous record, PF2 to play the next record, and PTT to exit playback. Supports recording up to 3 minutes of received voice, supporting both digital and analog channels. Recordings are played back from oldest to newest, with a "beep" sound after each record is completed. All records will automatically exit playback after completion.

Walkie-Talkie Detection (Digital)

Edit PF1 or PF2 key for long or short press for walkie-talkie detection. Press the corresponding key to enable walkie-talkie detection function. This function is only supported in digital channels. When a reply signal from the other party is detected, the host will emit a "beep" sound; if the other party is offline or not on the corresponding channel, the host will emit a "beep-beep" sound.

Encryption Function (Analog/Digital)

Note: For analog channels, it is scrambler on/off; for digital channels, it is encryption on/off.

1. Analog Scrambler On/Off: Turned off for no encryption, turned on for channel encryption. The scrambler function can only be enabled or disabled on the corresponding channels through CPS configuration.

2. Digital Encryption Key:

Set the encryption type in digital channels: Basic, AES256, or ARC4. The key for basic encryption ranges from 1 to 65535. AES256 advanced encryption uses a 64-bit key composed of letters A, B, C, D, E, F, and Arabic numerals 0-9. The ARC4 key is 10 digits long.

Transmission Permission:

Allow Transmission: The host will transmit directly when PTT is pressed, regardless of whether there is activity on the channel.

Channel Idle: Transmission is allowed when the channel is idle and there is no carrier signal on the same frequency. Transmission is not allowed when there is a signal on the channel.

Color Code Idle (Digital Channel): Transmission is not allowed when there is a carrier signal on the same frequency and color code.

CTCSS/DCS Mismatch (Analog Channel): Transmission is not allowed when there is a carrier signal on the same frequency and CTCSS/DCS.

Receive Only: This function prohibits any transmission on this channel but allows normal reception.

Emergency Alarm Function

Set the alarm mode and alarm type of the alarm system through the programming software:

a. Siren Only: Local siren, no remote siren, red light flashing. The siren time can be set to unlimited or a specified time.

b. Regular: During an emergency alarm, both local and remote sirens will sound, with no hot mic or reception; during an emergency call, there will be no siren at both local and remote ends, but there will be a hot mic and reception; during an alarm call, both local and remote sirens will sound, with a hot mic and reception. The hot mic and reception times can be set.

c. Private Alarm: During an emergency alarm, there will be no siren at the local end but a remote siren, with no hot mic or reception; during an emergency call, there will be no siren at both local and remote ends, only a hot mic with no reception; during an alarm call, there will be no siren at the local end but a remote siren, with only a hot mic and no reception.

d. Private with Voice: During an emergency call, there will be no siren at both local and remote ends, with no hot mic or reception; during an emergency call (repeated), there will be no siren at both local and remote ends, but there will be a hot mic and reception; during an alarm call, there will be no siren at the local end but a remote siren, with a hot mic and reception.

Short press the emergency alarm key to initiate an alarm. The number of alarms can be set through the programming software. After initiating an emergency alarm, press PTT or TOP key to cancel the alarm.

Eight alarm systems can be set, with only one usable at a time.

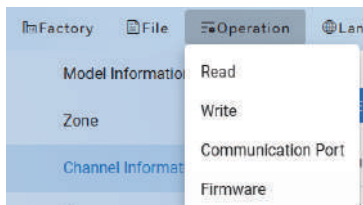
Factory Reset Function

Press and hold PF2 while turning on the walkie-talkie. The interface will display "RS" indicating reset is in progress. This will reset to default channels and settings, and clear recording records. The device will automatically restart after the reset is complete.

Firmware Upgrade Function

Press and hold PF1 while turning on the walkie-talkie. The red light will start flashing, indicating it is ready to connect to the programming cable. Open CPS, go to Operation->Firmware, select the appropriate port (model: NR40), with a default baud rate of 115200. Select the firmware to upgrade and click "Download". The device will automatically restart after the upgrade is complete.

FirmwareUpgrade



COM16

NR40

Please ensure your walkie-talkie's battery is fully charged, then follow the waiting for upgrade mode:

1. Turn off the power of the walkie-talkie.
2. Press and hold the "PFI" button and turn the power back on.
3. Start select firmware to download.

115200

Select File

Download Application to the Flash

Download

Factory Frequencies*

No.	Frequency UHF	Frequency UHF
1	461.1125	461.1125
2	461.1375	461.1375
3	461.1625	461.1625
4	468.5625	468.5625
5	468.6125	468.6125
6	468.6625	468.6625
7	456.3375	456.3375
8	456.4375	456.4375
9	459.60625	459.60625
10	448.19375	448.19375
11	469.36875	469.36875
12	449.3125	449.3125
13	459.125	459.125
14	444.55	444.55
15	457.175	457.175
16	442.875	442.875

* Frequency range take different variations according to the type of device you access because a radio designated for business use must comply with local rules, for example in EU member states. If the type is subject to restrictions on putting into service or to requirements for authorisation of use in your local district, your dealer or system administrator may set the operating frequency, and you cannot change the frequency. Check with your dealer or system administrator for more information.

Note: In order to prevent radio interference caused by end-user transmissions on unauthorized frequencies, a user cannot modify channels which have been preset by the manufacturer, equipment supplier, service technician or maintenance personnel.

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.

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.

CE compliance information

(Simple EU declaration of conformity) Shenzhen Retevis Technology Co., Ltd. declares that the radio equipment type is in compliance with the essential requirements and other relevant provisions of RED Directive 2014/53/EU and the ROHS Directive 2011/65/EU; the full text of the EU declaration of conformity is available at the following internet address: www.retevis.com.

Restriction on putting into service

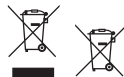
This product may be used in following countries and regions, including: Belgium (BE), Bulgaria (BG), Czech Republic (CZ), Denmark (DK), Germany (DE), Estonia (EE), Ireland (IE), Greece (EL), Spain (ES), France (FR), Croatia (HR), Italy (IT), Cyprus (CY), Latvia (LV), Lithuania (LT), Luxembourg (LU), Hungary (HU), Malta (MT), Netherlands (NL), Austria (AT), Poland (PL), Portugal (PT), Romania (RO),

Slovenia (SI), Slovakia (SK), Finland (FI), Sweden (SE) and United Kingdom (UK). For the intended country of use, please refer to the package.

This radio equipment contains frequency bands that are subject to licensing procedures before it is allowed to be operated. Please make sure you have a valid radio license or amateur radio operator permit before use.

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.

Batteries Safety

- WARNING: KEEP NEW OR OLD USED BATTERIES OUT OF REACH OF CHILDREN.
 - 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 batter is not completely charged.Don't leave a device unattended while charging. Disconnect the charger when the device is fully charged: do not overcharge the device.
 - 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.
 - 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 °Cand +25°Cand never exceed +30°C . Batteries should therefore not be stored next to radiators or boilers nor indirect 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.
- Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas;
A battery subjected to extremely low air pressure may result in an explosion or the leakage of flammable liquid or gas.
- The plug of the adapter is considered a disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible.

SPEZIFIKATION

Kanalnummer	2 Zonen* 128 Kanäle
Leistung	≤5W
Kanalabstand	Breitband: 25 kHz Schmalband: 12,5 kHz
Antennenimpedanz	50 Ω
Betriebstemperatur	-10 °C ~ 45 °C (Laden: 10-40 °C)
Betriebsspannung	DC 7,4 V
IP-Schutzstufe	IP67
Abmessungen (ohne Antenne)	126 x 58 x 36 mm (ohne Knopf und Antenne)

SENDER

Modulation	≤-45 dB
HF-Leistung	≤5W
Freie Zeitfensterleistung	≤-57 dB
Audioverzerrung	≤5 %
Modulations-BER (Bit-Error-Rate)	≤3 %

EMPFÄNGER

Empfindlichkeit	≤ -122dBm@SINAD=12dB
Nachbarkanalselektivität	≥70dB
Intermodulation	≥ 6,5 dB
Block	≥ 84 dB
Seriennummer	45 dB
Audio-Ausgangsleistung	750 mW
Audioverzerrung	≤5 %

Hauptfunktionen und Merkmale

- Sprachansagen auf Englisch/Chinesisch
- Monitor
- 2 Zonen * 128 Kanäle
- AES256
- Hohe/Niedrige Leistung einstellbar
- VOX
- GESAMT
- Energiespar-/Niedriger-Akku-Alarm
- Batterieanzeige
- Reden Sie herum
- Alleinarbeiter
- Scan
- Notfallalarm
- Alle Anrufe/Gruppenanrufe/Privatanrufe
- Intelligente Lautstärke
- Scan
- Ein-Tasten-Anruf
- Rauschunterdrückung
- Aufzeichnen
- CTCSS/DCS

Auspacken und Überprüfen der Ausrüstung

Willkommen bei der Verwendung unseres Transceivers. Vor der Verwendung empfehlen wir Ihnen:

- Überprüfen Sie den Verpackungskarton auf Beschädigungen.
- Bitte packen Sie den Karton sorgfältig aus und prüfen Sie, ob er alle Sollte während des Transports ein Artikel fehlen oder beschädigt sein, benachrichtigen Sie bitte Ihren Händler.

Laden des Akkus

Bitte verwenden Sie das offizielle Ladegerät unseres Unternehmens und befolgen Sie die nachstehenden Schritte, um den Akku aufzuladen.

1. Schließen Sie das Ladegerät an die Steckdose an.
2. Setzen Sie die Batterie oder den Transceiver mit Batterie ein. Anschließend leuchtet die Leuchte rot und zeigt damit an, dass die Batterie geladen wird.
3. Wenn das rote Licht aus ist, während das grüne Licht leuchtet, bedeutet dies, dass der Akku vollständig geladen ist.
4. Ziehen Sie den Stecker des Ladegeräts aus der Steckdose und entnehmen Sie den Akku.

Batterieinformationen

Der Akku ist werkseitig nicht vollständig geladen, bitte laden Sie ihn vor Gebrauch auf. Das erstmalige Laden des Akkus nach dem Kauf oder eine längere Lagerung (mehr als 2 Monate) kann dazu führen, dass der Akku seine normale Betriebskapazität nicht erreicht. Nach zwei- bis dreimaligem vollständigen Laden/Entladen wird die Betriebskapazität optimal erreicht.



Bitte setzen Sie den Ladevorgang nicht fort, wenn der Akku vollständig geladen ist, da sich sonst die Lebensdauer des Akkus verkürzt.

Beachten

1. Die Umgebungstemperatur sollte während des Ladevorgangs zwischen 5 °C und 40 °C liegen. Bei Temperaturen über dieser Temperatur kann der Akku nicht vollständig geladen werden. Halten Sie daher bei kaltem Wetter Ersatzbatterien bereit. Werfen Sie Batterien, die Sie nicht mehr verwenden können, nicht weg. Sie können bei normalen Temperaturen verwendet werden.
2. Wenn die Batteriekontakte schmutzig oder fleckig sind, beeinträchtigt dies den normalen Ladevorgang der Batterie. Wischen Sie sie bitte sauber und beginnen Sie dann mit dem Laden.
3. Schalten Sie vor dem Laden das Radio aus, da sonst der normale Ladevorgang beeinträchtigt wird.
4. Laden Sie den Akku oder das Radio nicht auf, wenn er nass ist. Trocknen Sie ihn vor dem Gebrauch.
5. Wenn die Akkukapazität nach dem ordnungsgemäßen Laden immer noch nicht auf den Normalwert zurückkehrt, bedeutet dies, dass die Lebensdauer des Akkus abgelaufen ist. Ersetzen Sie ihn bitte.

Akku-Typ

Bitte laden Sie den Akku mit dem Originalakku unseres Unternehmens. Die Verwendung

anderer Akkutypen kann zu Explosionen und Verletzungen führen.

Sicherheitsvorkehrungen

1. Werfen Sie Batterien nicht ins Feuer.
2. Versuchen Sie nicht, das Batteriegehäuse zu zerlegen.

Batteriespeicher

1. Batterien unterliegen der Eigenschaft der Selbstentladung. Wenn die Batterie daher längere Zeit nicht verwendet wird, laden Sie sie vor der Lagerung bitte vollständig auf, um eine Beschädigung der Batterie durch übermäßige Selbstentladung zu vermeiden.
2. Nach einer gewissen Lagerzeit muss der Akku geladen werden, um eine übermäßige Selbstentladung und damit eine Verringerung der Akkukapazität zu vermeiden. Eine Lagerung wird nach 6 Monaten Ladezeit empfohlen.
3. Achten Sie bitte auf die Temperatur und Luftfeuchtigkeit in der Lagerumgebung der Batterie. Bewahren Sie die Batterie in einem kühlen, trockenen Raum auf, um die Selbstentladung der Batterie zu verringern.

Installieren/Entfernen von Zubehör

Einsetzen/Entfernen des Akkupacks

Beachten:

- Schließen Sie die Batteriepole nicht kurz und werfen Sie die Batterie nicht ins Feuer.
- Versuchen Sie nicht, das Gehäuse des Akkupacks zu entfernen.
- Akkupacks dürfen nicht in gefährlichen Umgebungen installiert werden, da Funken eine Explosion verursachen können.

Installation: Legen Sie den Akkupack in den Akkuschacht der Sprechanlage und schieben Sie den Akkupack nach vorne, bis Sie hören Es stoppt, wenn ein Klickgeräusch zu hören ist.

Demontage: Um den Akkupack zu entfernen, stellen Sie zunächst sicher, dass das Radio ausgeschaltet ist. Ziehen Sie dann die Akkuschnalle an der Unterseite des Radios nach unten und drücken Sie den Akku anschließend nach unten, sodass der obere Teil des Akkus aus dem Radio entfernt werden kann.

Installieren der Antenne

Halten Sie den Antennenfuß fest und schrauben Sie die Antenne im Uhrzeigersinn in die Schnittstelle auf der Oberseite der Sprechanlage, bis sie fest sitzt.

Anbringen/Entfernen des Gürtelclips

Bei Bedarf rasten Sie den mitgelieferten Gürtelclip in der Schraube auf der Rückseite des Akkupacks ein. Gewindeloch für einfaches Tragen.
Zum Abnehmen des Gürtelclips müssen lediglich die beiden Schrauben gelöst werden.

Installieren Sie die Walkie-Talkie-Handschnalle

Fädeln Sie den Radiogurt durch die Schlaufe in der Mitte des Radios.