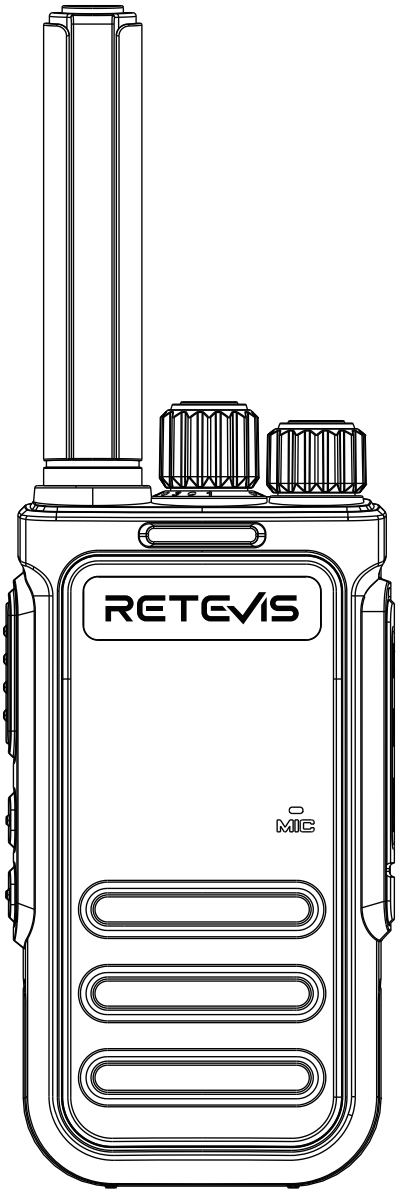
RETEVIS



Matetalk B4
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.

Caution

Before using this walkie-talkie, please read this manual carefully.

·Do not operate this walkie-talkie without a license in areas where government regulations prohibit it.

·Keep the walkie-talkie away from direct sunlight and any heating appliances.

·Avoid exposing the walkie-talkie to dusty, damp, or water-splashing environments, and ensure it is not placed near any heating appliances.

·If you notice any odor or smoke from the walkie-talkie, immediately remove the battery pack and contact your nearest dealer.

·Repairs to this walkie-talkie should only be performed by professional technicians. Do not attempt to disassemble it yourself.

Charging Precautions:

●Use only the charging cradle that is compatible with this model for charging.

●Ensure the walkie-talkie is turned off before charging.

●For optimal battery performance, charge the battery for at least 5 hours during the initial charge.

●Do not charge the battery pack for an extended period (maximum of 12 hours), as this may shorten its lifespan. If the battery indicator shows it is not fully charged but the maximum charging time has been exceeded, disconnect the power supply immediately.

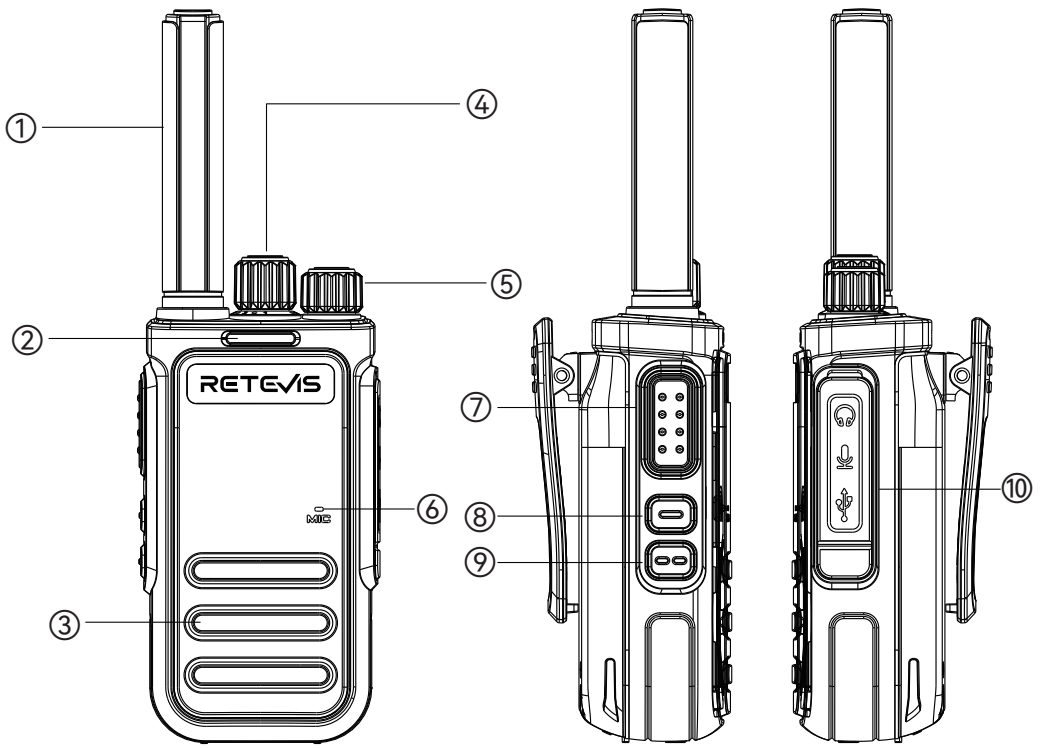
●This charger is designed solely for charging the battery pack of this product. Do not use it to charge other battery packs, as it may cause damage to both the charger and the battery pack.

●After fully charging, store the battery pack in a cool, dry place. Keep it away from fire sources or direct sunlight to avoid potential safety hazards.

●Do not operate the walkie-talkie during the charging process.

●It is normal for the battery pack to warm slightly during charging.

Familiarizing with the Walkie-Talkie



1.Antenna
2.Tx/Rx LED indicator
3.Speaker（Sound output)
4.Channel
5.Volume /Power
6.Microphone（Sound input)
7.PTT Switch
8.Monitor/VOX
9.Noise Reduction/Alarm
10.Type-C/ Accessory Port

Function Operations

1.Tx/Rx LED indicator

The red light illuminates during Tx, and the green light illuminates during Rx.

2.Channel Switch

Turn clockwise to increase the channel value and counterclockwise to decrease it. There are a total of 22 channels.

3.POWER Switch/VOLUME Controller

Turn clockwise to power on the walkie-talkie. To power off, turn counterclockwise until a click is heard. Adjust the volume by turning the controller.

4.PTT Switch
Press PTT and speak into the microphone to call the other party. The red light indicates transmission. If no transmit frequency is set for this channel, a beep sound will be heard and the red light will illuminate. Release PTT to receive, and if there is a signal, the green light will illuminate and the speaker will activate.

5.Squelch Level
Adjust the squelch level to set when the walkie-talkie closes and opens based on the received signal strength. A lower squelch level allows more background noise when open, enabling longer communication distances but reducing interference resistance. Set the squelch level via Customer Programming Software (CPS), with the default being level 3.

6.Transmit Timeout
The transmit timeout prevents a single walkie-talkie from occupying a channel for too long and protects the device from damage due to prolonged transmission. If continuous transmission exceeds the limit set via Customer Programming Software (15S to 180S), the walkie-talkie stops transmitting and sounds an alarm. To stop the alarm, release the PTT switch, returning the walkie-talkie to receive mode.

7.Battery Saver Function
Enable or disable the battery saver mode via Customer Programming Software.
Note: There are five sleep ratio options settable in Customer Programming Software

8.Monitor
Define Side Key 1 or Side Key 2 long/short press as the monitoring function via Customer Programming Software. After setting, long/short pressing the side key switches the monitoring function on or off, with Side Key 1 defaulting to enabling monitoring.

9.Scan
Define Side Key 1 or Side Key 2 long/short press as the scanning function via CPS. Three scanning types (SE, CO, TO) are settable via Customer Programming Software;

10.Channel Lock
Define Side Key 1 or Side Key 2 long/short press as the channel lock function

via Customer Programming Software. Locking the channel prevents accidental changes;

11.Roger Beep
Enable or disable the Roger Beep via Customer Programming Software, with it defaulting to off.

12.AI Dual-direction Noise Reduction
Noise reduction has 10 levels settable via Customer Programming Software. Define Side Key 1 or Side Key 2 long/short press as noise reduction via CPS, defaulting to Side Key 2 short press to enable.

13.Voice-Operated Transmit（VOX）
VOX allows transmission without pressing the PTT button, starting automatically when speech is detected and stopping when speech stops. Default is Side Key 1 long press for 2s to enable, customizable via Customer Programming Software to side key long/short press, with VOX defaulting to off ;
Note: Set the VOX level via Customer Programming Software with 9 levels available and a delay time settable between 0.5S and 3S.

14.Recording and Playback
Each recording is up to 1 minute, with a maximum of 6 recordings. Operations: Define Side Key 1 or Side Key 2 long press as recording and playback via Customer Programming Software. In playback mode, short press Side Key 1 to play the previous recording and Side Key 2 to play the next.

15.Emergency Alarm
Define Side Key 1 or Side Key 2 long/short press as the emergency alarm function via Customer Programming Software. After setting, long pressing for 2s activates emergency alarm mode, exited by pressing PTT, defaulting to Side Key 2 long press for 2s to enable;

16.Battery Level Announcement
Define Side Key 1 or Side Key 2 long/short press as the battery level announcement function via Customer Programming Software, announcing levels from 0% to 100% with 1% accuracy.

17.One-key Pairing/ Wireless Pairing
Press and hold side button 2 while powering on under channel 1/2/3 to enter One-key Pairing/PAIRING SEDN/PAIRING ACCEPT status respectively.

a) PAIRING ACCEPT，the device enters data reception mode with the green light blinking. All operations are invalid. During data reception, the green light stays on，
b) PAIRING SEND，the device enters data transmission mode with the red light illuminating. All operations are invalid. The walkie-talkie automatically restarts after data transmission.

18.CTCSS/DCS

This product supports 260 sub-audible tone codes, configurable via programming software with 50 analog CTCSS codes and 105*2 sets of digital DCS codes (N-phase and I-phase).

Factory Settings

US Version（FRS）			
Channel	Frequency (MHz)	CTCSS/DCS	Max Power Output
1	462.5625	67.0	2W
2	462.5875	118.8	2W
3	462.6125	127.3	2W
4	462.6375	131.8	2W
5	462.6625	136.5	2W
6	462.6875	141.3	2W
7	462.7125	146.2	2W
8	467.5625	D243N	0.5W
9	467.5875	D032N	0.5W
10	467.6125	D047N	0.5W
11	467.6375	D051N	0.5W
12	467.6625	D053N	0.5W
13	467.6875	D065N	0.5W
14	467.7125	D116N	0.5W
15	462.5500	123.0	2W
16	462.5750	D743I	2W
17	462.6000	D332I	2W
18	462.6250	127.3	2W
19	462.6500	D2431	2W
20	462.6750	D606N	2W
21	462.7000	D731I	2W
22	462.7250	136.5	2W

RF ENERGY EXPOSURE AND PRODUCT SAFETY GUIDE FOR TWO-WAY RADIOS

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.

FCC Requirements

This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference. (Licensed radios are applicable);
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (Other devices are applicable)
(1) This device may not cause harmful interference.
(2) This device must accept any interference received, including interference that may cause undesired operation.
3.2 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.

IC Requirements
Licence-exempt radio apparatus
This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

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.lug

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.

• Turn off your radio when taking on fuel or parked at gasoline service stations.

• Turn off your radio when on board an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions. • Do not use any radio that has a damaged antenna. If a damaged antenna comes into contact with the skin when the radio is in use, a burn can result. • Turn off your radio before removing or installing accessories.

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

• 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.
• 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.
• Do not dismantle, open or shred batteries. Batteries should be dismantled only by trained people.
• Disposal of a battery into fire, or a hot oven, or mechanically crushing or cutting of a battery, that can result in explosion;

• If a radio or a battery has been submerged in water, please dry and clean it before use. Do not dry the radio or battery with an appliance or heat source, such as a hair dryer or microwave oven. If the radio has been submersed in a corrosive substance (e.g. saltwater), rinse the radio and battery in fresh water, then dry them.

• 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 ℃and +25℃and never exceed +30℃. 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.

Leaving a battery in an extremely high temperature surrounding environment that can result in an explosion or the leakage of flammable liquid or gas;

• 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.
• 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 (1 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.

• Batteries shall be charged at 10℃~40℃ environment temperature specified. If the environment temperature is lower than 0℃, the charge shall be prohibited.
• Rechargeable batteries are only to be charged by adults.
• The plug of the adapter is considered a disconnect device. The socket-outlet shall be installed near the equipment and shall be easily accessible.

WARINING:CHOKING HAZARD-Small Parts. Not suitable for children under 3 years old.

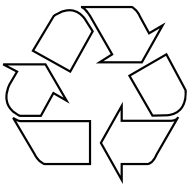
Guarantee

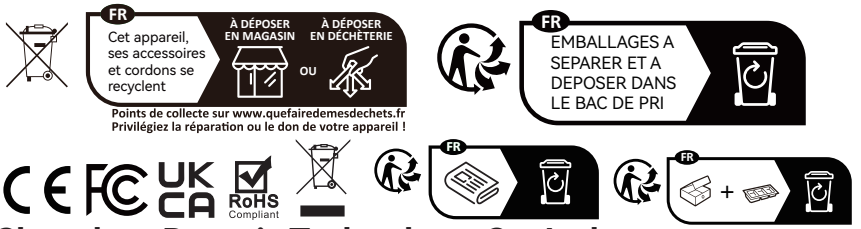
Model Number: _____
Serial Number: _____
Purchasing Date: _____
Dealer: _____ Telephone: _____
User's Name: _____ Telephone: _____
Country: _____ Address: _____
Post Code: _____ Email: _____

Remarks:

1.This guarantee card should be kept by the user, no replacement if lost.
2.Most new products carry a two-year manufacturer's warranty from the date of purchase. Further details, pls read http://www.retevis.com/after-sale/
3.The user can get warranty and after-sales service as below:
· Contact the seller where you buy.
· Products Repaired by Our Local Repair Center
4.For warranty service, you will need to provide a receipt proof of purchase from the actual seller for verification

Exclusions from Warranty Coverage:
1.To any product damaged by accident.
2.In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs.
3.If the serial number has been altered, defaced, or removed.





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裁剪：上下左右居中对齐，保证字体不能太靠边

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