

# **User manual**

0.5W Handheld walkie talkie

**RT33** 



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HONGKONG RETEVIS TRADE CO., LIMITED

#### Safety Information and Warnings

#### **Information on Safe Operation**

Read This Information Before Using Your Radio.

The operation of your radio in Your country is subject to conditions in the following license:

#### Radio Antenna

Do not use any radio that has a damaged antenna. If a damaged antenna comes in contact with the skin, a minor burn may result. Unauthorized antennas, modifications, or attachments could damage the radio and violate compliance.

Do NOT change or modify the antenna.

Do NOT hold the antenna when the radio is "IN USE." Holding the antenna reduces range and may cause bodily harm.

### Safety and general use whilst in a vehicle

Check the State and Federal laws and regulations regarding the use of two way radios in the area where you drive, and always obey them.

#### For Vehicles fitted with Air Bags

Do not place your radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to the occupants of the vehicle.

#### **Batteries**

All batteries can cause property damage and/or bodily injury such as burns if conductive material such as jewellery, keys, or beaded chains touches exposed terminals. The material may complete an electrical circuit (short circuit) and become quite hot.

Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

Do not replace or charge batteries in a potentially explosive atmosphere. Contact sparking may occur while installing or removing batteries and cause an explosion.

### **Potentially Explosive Atmospheres**

Turn your radio OFF when in any area with a potentially explosive atmosphere. Sparks in such areas could cause an explosion or fire resulting in injury or even death.

NOTE: Areas with potentially explosive atmospheres are often, but not always clearly marked.

They include fueling areas such as below deck 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.

### **Blasting Caps and Areas**

To avoid possible interference with blasting operations, turn your radio OFF near electrical blasting caps or in a "blasting area" or in areas posted: "Turn off the two way radio." Obey all signs and instructions.

### **Transmit and Receive Procedure**

Your two-way radio contains a transmitter and a receiver. To control your exposure and ensure compliance with the general population/uncontrolled environment exposure limits, always adhere to the following procedure:

• Transmit no more than 50% of the time. To receive calls, release the PTT button.

To transmit (talk), press the Push to Talk (PTT) button. Transmitting 50% of the time, or less, is important because the radio generates measurable RF energy exposure only when transmitting (in terms of measuring standards compliance). Always hold the radio approximately 5cm in front of your mouth with the antenna pointing away from your head.

# Radio Operation and EME Exposure

Unauthorized antennas, modifications, or attachments could damage the radio and violate Compliance.

Do NOT hold the antenna when the radio is "IN USE." Holding the antenna reduces the effective range.

Do not use the radio if the antenna is damaged. If a damaged antenna makes contact with your skin,

a minor burn can result. If you wear a radio on your body when transmitting, always fit the radio on the

belt clip (supplied). Always ensure the radio and it's antenna are at least 5cm from your body when transmitting.

### **Electromagnetic Interference/Compatibility**

Nearly every electronic device is susceptible to electromagnetic interference (EMI). To avoid the possibility of electromagnetic interference and/or compatibility conflicts, turn off your radio in any location where posted notices instruct you to do so such as health care facilities.

#### Aircraft

When instructed to do so, turn off your radio when onboard an aircraft. Any use of a radio must be in accordance with applicable regulations per airline crew instructions.

#### **Medical Devices - Pacemakers**

The Advanced Medical Technology Association recommends that a minimum separation of 6 inches (15cm) be maintained between a handheld wireless radio and a pacemaker. These recommendations are consistent with the independent research by and recommendations of the U.S. Food and Drug Administration. People with pacemakers should:

- ·ALWAYS keep the radio more than 15cm from their pacemaker when the radio is turned ON.
- ·Not carry the radio in the breast pocket.
- 'Use the ear opposite the pacemaker to minimise the potential for interference.
- ·Turn the radio OFF immediately if there is any reason to suspect that interference is taking place.

#### Medical Devices --- Hearing Aids

Some 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.

### **General warnings**

Never use your radio outdoors during a thunderstorm. Keep the radio out of reach of babies and young children.

### INSTALLATION

### Removing the belt clip

Pull the belt clip latch away from the unit.





### **Installing the Batteries**

FOR USE OF RECHARGEABLE BATTERIES:

If your walkie talkie comes with a rechargeable battery pack or USB cable, dual USB adaptor and dual USB car charger. The fully charging time is about 12 hours.

The adaptor and car charger will only charge the battery pack provided and not other types of rechargeable batteries. After placing batteries into correct positions, replace the battery cover.

# FOR USE OF NON RECHARGEABLE BATTERIES:

- 1.Slide down the battery compartment cover.
- 2.Insert 3 x AAA batteries (not included).
- 3. Position the batteries according to the polarity marking on the battery compartment. After placing batteries into correct positions, replace the battery cover.

### **Low Battery Meter Indicator**

The radio can detect the low battery level when the battery voltage goes low. The battery icon will display the low battery status.

When battery voltage is low, the empty battery symbol will appear and continue to blink. The battery symbol will continuously blink until it totally drains the battery voltage where then you will have to replace the batteries.

#### **Transmitting Range**

The talk range will depend on your surroundings and environment it will be affected by obstructions such as hills or buildings. Don't try to use two radio units which are less than 1.5m (5 feet) apart. Otherwise, you may experience interference.

Talk range depends on the terrain. It will be affected by concrete structures, heavy foliage and by operating radios indoors or in vehicles.



BB CTCSS Code. Changes from 1 to 38 as selected by the user.

Displays the Battery change level. When the bars are reduced, the battery needs recharging.

TX Displayed when transmitting a signal.

**RX** Displayed when receiving a signal.

Displayed when the Dual Watch function is turned ON.

vox Displayed when the VOX feature is enabled.

### Operating the unit

### Turning unit on/off:

1-- Switching on

Press and hold the MENU/PWR until you hear a beep sound.

2-- Switching off

Press and hold the MENU/PWR until you hear a beep sound.

### **Adjusting the Volume:**

You have 8 preset volume levels. They are displayed on the LCD screen. To raise the volume press the up button (SCAN) and to decrease the volume, press the down button (MONI).

### Auto scan.

Press & hold the UP button for 3 seconds to activate auto scan.

Press Menu/PWR button to deactivate auto scan.

### Monitor (Zero squelch)

Press & hold the DOWN button for 3 seconds to activate monitor.

Press & hold the DOWN button for 3 seconds to deactivate monitor.

### **Changing Channels**

You have channels with the legal frequency at your disposal. To communicate with another device, you must both be on the same channel. To change channels, once you have turned your unit on, you need to press the MENU/PWR once and use the up/down buttons

to scroll through to your desired channel. To set your desired channel, press the PTT button to confirm changes.

Your unit is simplex "one way at a time". While you are speaking, you can not receive a Transmission.

Your unit is an open---license band. Always identify yourself when transmitting on the same channel.

IMPORTANT: Before transmitting on a channel listen to ensure it is not already in use.

### CTCSS/DCS

Press the Menu button twice and use the Up/ Down to introduce CTCSS/DCS Continuous Tone--Coded Squelch System or CTCSS is a circuit that is used to reduce the annoyance of listening to other users on a shared two--way radio communications channel. It basically allows a private CH on a busy stream.

**CTCSS** = Coded tone controlled squelching system. This allows you to talk on a private sub channel on an active channel. DCS is a digital extension of CTCSS.

**DCS**=DCS is a digital extension of CTCSS.It provides extra, digitally coded, squelch codes that follow after the 38 CTCSS codes. CTCSS 1 to 38 , followed by DCS 39-83.

#### vox

voice operated transmitter it allows you to transmit with you voice without pressing the button.

Your communicator is equipped with an adjustable Voice Operated Transmitter(VOX) that can be used for automatic voice transmission.

In this convenient mode, transmission is automatically initiated by speaking in to the microphone. There is no need to push the Button. By press MENU button 3 times, screen will display VX character, character OF keep flashing, Press UP or Down button to select voice level

(from 1 to 3 level), by press PTT button to confirm setting. VOX Default setting as off

**CA** = call allows you to adjust different tones for calling the operator from the same channel.

Press Menu button 4 times, screen will display CALL character, digital 01 keep flashing, by press UP or down button to select call tone from 01~10, press PTT button to confirm call tone setting. Default setting for call tone is 01

There are 10 mode call tone in this unit, you and other party can use designed call tone to communicate separately, secretly to avoid any disturb. You can press PTT button twice quickly to send a tone to other users on the same channel. To activate this feature. With the unit in normal mode, press twice quickly and release the PTT button. The unit will transmit a 2--second page tone to the other unit/s set with the same channel within transmitting range.

NOTE: This function is only possible every 60 seconds.

### то

time out is when the unit turns off after 30sec or 60sec when activated.

Press Menu button 5 times, screen will display 60 TO, press UP or Down can choose 60 or 30 seconds or OF. Default setting is 60 seconds, press the PTT button to confirm changes.

### **Roger Beep**

roger beep means a tone added to the end of broadcast, it indicates that the user/operator has conclude speaking.

This is a tone which is automatically transmitted whenever the PTT button is released.

This alerts the receiving party that you have ended the transmission, and you are now in receive mode.

Press Menu button 6 times, screen will display ON RO, press UP or down to choose RO OF or ON, press the PTT button to confirm changes.

### BELL

symbol on the display = turn off/on the beep when using any buttons.

Press Menu button 7 times, screen will display Bell ON, press UP to choose ON or down to choose OF. Default setting is ON press the PTT button to confirm changes.

### DCM

dual channel monitoring you can monitor between two channels eg: 1 to 8or 9 to 22.

Press Menu button 8 times, screen will display DCM OF, press Down or UP to choose DCM ON or OF, press the PTT button to confirm changes.

### Transmitting (sending speech)

The unit is continuously in the Receive mode when the unit is turned ON and not transmitting.

When a signal is received on the current channel, "RX" icon will be displayed on the LCD screen.

a.Press and hold the PTT (Push to Talk) button to transmit your voice. The transmit signal icon "TX"

will display on the LCD screen.

- b. Hold the unit in a vertical position with the Mic (Microphone) 5cm away from the mouth. While holding the PTT button, speak into the microphone in a normal tone of voice.
- c. Release the PTT button when you have finished transmitting.

For others to receive your transmission, they must be on the same channel as you.

## Channel and Frequency (MHz)

# Europe(8CH)

| Ch. | Frequency | Ch. | Frequency | Ch. | Frequency |
|-----|-----------|-----|-----------|-----|-----------|
| 1   | 446.00625 | 4   | 446.04375 | 7   | 446.08125 |
| 2   | 446.01875 | 5   | 446.05625 | 8   | 446.09375 |
| 3   | 446.03125 | 6   | 446.06875 |     |           |

# USA(22CH)

| Ch. | Frequency | Ch. | Frequency | Ch. | Frequency | Ch. | Frequency |
|-----|-----------|-----|-----------|-----|-----------|-----|-----------|
| 1   | 462.5625  | 7   | 462.7125  | 13  | 467.6875  | 19  | 462.6500  |
| 2   | 462.5875  | 8   | 467.5625  | 14  | 467.7125  | 20  | 462.6750  |
| 3   | 462.6125  | 9   | 467.5875  | 15  | 462.5500  | 21  | 462.7000  |
| 4   | 462.6375  | 10  | 467.6125  | 16  | 462.5750  | 22  | 462.7250  |
| 5   | 462.6625  | 11  | 467.6375  | 17  | 462.6000  |     |           |
| 6   | 462.6875  | 12  | 467.6625  | 18  | 462.6250  |     |           |
|     |           |     |           |     |           |     |           |

# Japan(20CH)

| Ch. | Frequency | Ch. | Frequency | Ch. | Frequency | Ch. | Frequency |
|-----|-----------|-----|-----------|-----|-----------|-----|-----------|
| 1   | 422.0500  | 7   | 422.1250  | 13  | 422.2125  | 19  | 422.2875  |
| 2   | 422.0625  | 8   | 422.1375  | 14  | 422.2250  | 20  | 422.3000  |
| 3   | 422.0750  | 9   | 422.1500  | 15  | 422.2375  |     |           |
| 4   | 422.0875  | 10  | 422.1625  | 16  | 422.2500  |     |           |
| 5   | 422.1000  | 11  | 422.1750  | 17  | 422.2625  |     |           |
| 6   | 422.1125  | 12  | 422.2000  | 18  | 422.2750  |     |           |
| 1   |           |     |           |     |           |     |           |

# P.R. China (20CH)

| Ch. | Frequency | Ch. | Frequency | Ch. | Frequency | Ch. Frequency |
|-----|-----------|-----|-----------|-----|-----------|---------------|
| 1   | 409.7500  | 7   | 409.8250  | 13  | 409.9000  | 19 409.9750   |
| 2   | 409.7625  | 8   | 409.8375  | 14  | 409.9125  | 20 409.9875   |
| 3   | 409.7750  | 9   | 409.8500  | 15  | 409.9250  |               |
| 4   | 409.7875  | 10  | 409.8625  | 16  | 409.9375  |               |
| 5   | 409.8000  | 11  | 409.8750  | 17  | 409.9500  |               |
| 6   | 409.8125  | 12  | 409.8875  | 18  | 409.9625  |               |

# IRAN(35CH)

| Ch. | Frequency | Ch. | Frequency | Ch. | Frequency | Ch. | Frequency |
|-----|-----------|-----|-----------|-----|-----------|-----|-----------|
| 1   | 433.0625  | 10  | 433.1750  | 19  | 433.2875  | 28  | 433.4000  |
| 2   | 433.0750  | 11  | 433.1875  | 20  | 433.3000  | 29  | 433.4125  |
| 3   | 433.0875  | 12  | 433.2000  | 21  | 433.3125  | 30  | 433.4250  |
| 4   | 433.1000  | 13  | 433.2125  | 22  | 433.3250  | 31  | 433.4375  |
| 5   | 433.1125  | 14  | 433.2250  | 23  | 433.3375  | 32  | 433.4500  |
| 6   | 433.1250  | 15  | 433.2375  | 24  | 433.3500  | 33  | 433.4625  |
| 7   | 433.1375  | 16  | 433.2500  | 25  | 433.3625  | 34  | 433.4750  |
| 8   | 433.1500  | 17  | 433.2625  | 26  | 433.3750  | 35  | 433.4875  |
| 9   | 433.1625  | 18  | 433.2750  | 27  | 433.3875  |     |           |

### **Product Safety and RF Exposure**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

#### **FCC Caution:**

Caution: To maintain compliance with the FCC's RF exposure guidelines hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face, use only the supplied belt chip for this product and transmitting, use of other accessories may not ensure compliance with FCC RF exposure guidelines.

This equipment complies with FCC radiation exposure limits set forth for uncontrolled environment. Unauthorized antennas, modification, or attachments could damage the transmitter and may violate FCC regulations

The device is authorized to operate at a duty factor not to exceed 50%.

#### **Hazardous Environments:**

Do not operate the communicator in hazardous environments, explosion or fire may result. Do not operate the communicator near unshielded electrical blasting caps. Under certain conditions, radios can interfere with blasting operations and may cause an explosion. Turn your radio to the OFF position to prevent accidental transmission when in a blasting area or in areas posted: "Turn off two-way radios." Construction crews often use remote control RF devices to set off explosives.

Never use cleaners or solvents to clean your device. Use a dry, lint-free cloth to clean the battery contacts. Do not submerge the unit in water.