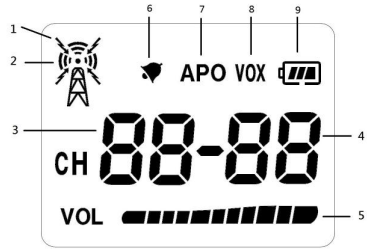


### OVERVIEW



1. Antenna
2. LCD display
3. PTT (Push to Talk) Key
4. Light key: LCD Backlight On/Off
5. Call Tone Key
6. Menu Key
7. Up  $\Delta$  Key
8. Down  $\nabla$  Key
9. Microphone
10. Speaker



1. Receive Signal
2. Transmit Signal
3. Main Channel
4. CTCSS Code
5. Volume Level
6. Call Tone
7. Auto Power Off Enable
8. VOX Enable
9. Battery Level

### MAIN FEATURES

- PMR 446MHz (license free within most European countries)
- 8 Channels
- 38 CTCSS sub-codes
- VOX
- Roger Beep On/Off
- Auto Power Off (APO)
- 10 Call Tones
- SCAN (main channel only)

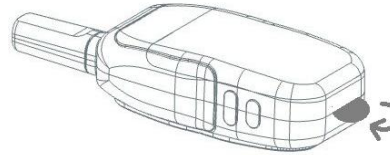
### PRECAUTIONS

- Read this manual before use the radio.
- Avoid the direct exposure to solar rays and/or in front of heat.
- Do not operate the radio in hazardous environments, explosion or fire may result.
- Do not operate the radio in high humidity, dusty or explosive environment.
- Clean by using a cloth slightly dampened. Do not use alcohol, solvents or abrasives etc.
- Do not attempt to modify the radio. The radio is designed to comply with CE and R&TTE.
- The LCD display is made of glass and maybe damaged if dropped or impacted.

CAUTION: DISPOSE OF USED BATTERIES (NO BATTERY INCLUDED IN THE PACKAGE) ACCORDING TO THE INSTRUCTION.

### INSTALL BATTERIES

- Insert a coin to the battery door gap.
- Turn the coin with some force to open the battery door as shown on below picture.
- Follow the polar directions and insert 3 x AAA size batteries. Close the battery door as show on photo B.
- 1. Insert the battery door.
- 2. Then, press down the battery door to close it tight.



- **Battery Low:** When you hear "Beep Beep" sound, it indicate the battery level is low. Please replace with new batteries.

### GENERAL OPERATIONS

#### 1. POWER ON/OFF

- To power On the radio, press **MENU** Key for 2 seconds until a beep is heard and the LCD display turn on
- To power Off the radio, press **MENU** key for 2 seconds until LCD display turns off.

#### 2. MAKING COMMUNICATIONS

The radio has 8 main frequencies and 38 CTCSS codes effectively giving you 304 channels. You can communicate with any other user who is using the same combinations, providing they are within range.

#### 3. SPEAK TO OTHER RADIO

- Press & hold the **PTT** key, LCD TX  $\text{TX}$  icon indicating the radio is transmitting.
- Hold the radio in a vertical position with the microphone 3-5 cm from your mouth and then speak.
- When you finish speaking, release the **PTT** key and a beep tone will be heard.

#### 4. LISTEN TO OTHER RADIO

- The radio will automatically sound received signal from the other radio with the same channel and LCD shows the icon  $\text{RX}$ .
- When you press the **PTT** key, you can't listen to other radios. Make sure you do not press **PTT** key for listening.
- Adjust volume control if necessary.

#### 5. ADJUSTING SPEAKER VOLUME (8 LEVELS)

- Press the Up key  $\Delta$  to increase the volume.
- Press the Down key  $\nabla$  to decrease the volume.

#### 6. LCD Backlight On/Off

- Press the **Light** key to turn on LCD backlight when necessary.
- Press the **Light** key again to turn off LCD backlight.

*REMARKS: Please always turn off the LCD backlight after used, or otherwise, it will keep the LCD backlight continuously ON and drain out battery.*

### 7. MENU FLOW CHART

Press Menu key **MENU** once to enter main channel selection, press **MENU** again for next function selection etc.

Main Screen → Main Channel → CTCSS → VOX → Call Tone → APO → Key tone → Roger Beep → Main Screen

### 8. SELECT CHANNEL

To select the main channel

- Press the **MENU** key once, Main channel number displayed will flash.
- Press  $\Delta$  or  $\nabla$  key to select your desired main channel number.
- Press the **PTT** key to confirm and quit or press **MENU** to continue next function setting.
- You have 13 seconds to decide before auto-reverting back to the main screen.

### 9. CTCSS CODE FUNCTION

This function can help you select your group (38 CTCSS codes) of users on the same channel. Only the users with the same CTCSS code can listen and talk to each other. Please note that selecting a CTCSS code does not assure total privacy. In radio communication, any PMR 446 radio can listen to all communications on the same channel when using the default standard setting with CTCSS = 00 (OFF).

- Press the **MENU** key twice, CTCSS code display will flash.
- Press  $\Delta$  or  $\nabla$  key to select your desired CTCSS code from 01 to 38, 00 is OFF.
- Press the **PTT** key to confirm and quit or press **MENU** key to continue next function setting.

### 10. VOX (Hands-Free Function)

The unit has a built-in Voice Activated Circuit (VOX) function. You can enjoy talking and listening without pressing PTT key.

- Press the **MENU** key 3 times, LCD display VOX icon and VOX sensitivity digit will flash.
- Press  $\Delta$  or  $\nabla$  key to select sensitivity level from "OF, 01, 02, 03" for "OFF, Low, Medium and High respectively."
- After turning on the VOX function, LCD will display VOX icon. Press **PTT** to confirm and quit.
- Please speak close to the mic in order to activate VOX function.

### 11. SENDING CALL TONE

You can use 1 of 10 different "Call Tones" to get attention of other user on the same channel.

- Press the  $\text{J}$  key and you will heard the tone. LCD will display the transmit icon  $\text{TX}$  and your call tone will be sent.

### 12. SELECTING CALL TONE


- Press the **MENU** key 4 times, LCD display  $\text{J}$  icon and call tone number will flash.
- Press  $\Delta$  or  $\nabla$  key to select your desired call tone from 01 to 10.
- Press the **PTT** key to confirm and quit or press **MENU** to continue next function setting.

### 13. Auto Power Off (APO)

- Press **MENU** key 5 times, LCD display **APO** icon.
- Press  $\Delta$  or  $\nabla$  key to select auto power off time from 01 to 04 hours.
- Press **PTT** key to confirm and quit or press **MENU** to return to Main screen.
- After turning on the function, LCD will display **APO** icon and automatically turn off at designated time.



### 14. Key Tone On/Off

- Press **MENU** key 6 times, LCD display  $\text{K}$  (= Key tone On) or  $\text{K}$  (= Key tone Off)
- Press  $\Delta$  or  $\nabla$  key to toggle Key Tone On or Off

- LCD display icon  will be on when Key Tone is On. The icon will be off when Key Tone is Off
- Press PTT to confirm and quit or press **MENU** to continue next function setting.

#### 15. ROGER BEEP

The roger beep function enables a short tone signal which is transmitted after releasing the PTT button.

- Press **MENU** key 7 times, LCD display  icon (=Roger Beep On) or  (=Roger Beep Off)
- Press **▲** or **▼** key to toggle Roger Beep On or Off.
- Press PTT to confirm and quit or press **MENU** to continue next function setting.

#### 16. SCAN

- Before you start scanning, please preset the CTCSS code to "00" first. *Note: If the CTCSS code setting is 01 to 38, it can not scan other channel with different CTCSS code.*
- Press and hold **▲** or **▼** key for at least 3 seconds to start scanning function.
- LCD display show the scanning Main channel one by one.
- It will stop at those main channel with signal for a while. And then continue scanning.
- Or if you want to use this channel, press PTT to confirm and your radio will change to this channel.
- Note: Please aware that you can listen to other radios on this main channel. If you want to talk to other radios, please make sure your radio have the same CTCSS code with the others

#### SPECIFICATIONS

Operation Frequency Range	: 409MHz
Channels	: 20
CTCSS Codes	: 38
RF Output Power	: < 500mW e.r.p
Operating Temperature	: -10 ~ +50°C
Size W.H.D.	: 55 x 125 x 30mm
Weight	: 66 g w/o batteries
Power Supply	: 1.5V x 3 Akaline AAA battery for each unit (Batteries not included)

#### Disposal:

All electrical and electronic products including batteries should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.