Oricom.

User manual

PMR1250 80 Channel UHF 2-Way
Citizen Band Radio

Keep this user guide for future reference. Always retain your
proof of purchase in case of warranty service and register your
product on line at: AUSTRALIA: www.oricom.com.au

Need Help?

If you need assistance setting up or using your Oricom product now or in the future, call Oricom Support.

Australia	1300 889 785	
	www.oricom.com.au	
	Mon-Fri 8am – 6pm AEST	
New Zealand	0800 67 42 66	
	www.oricom.co.nz	
	Mon-Fri 10am – 8pm NZST	

Why has the ACMA increased the number of available UHF CB channels?
To provide additional channel capacity within the UHF CB Band the ACMA will over the next 5 years change the majority of the current wideband 40 channel use to narrowband 80 channel use.
During this time wideband channel use will be gradually phased out as users upgrade their existing radio's.
This means that the new Oricom narrowband radio you have purchased will have more channels than older wideband radios. Some of these channels are locked and cannot be used, (see the attached channel chart for more information).

When did this take place?
Early in 2011 new AS/NZS Standards came into effect allowing operators to use additional narrowband channels and also use narrowband transmissions on some current wideband channels. This increased the number of channels up to 80, 75 of which are useable voice channels.

What issues may users experience during the transition phase?
When a new narrowband radio receives a transmission from an older wideband radio the speech may sound loud and distorted – simply adjust your radio volume for the best listening performance. When an older wideband radio receives a signal from a new narrowband radio the speech may sound quieter - simply adjust your radio volume for best listening performance. When operating a narrowband radio or Channel 41 - 80 interference is possible from wideband radios transmitting on high power or on adjacent frequency.
The issues described above **are not a fault of the radio** but a consequence of mixed use of wideband and narrowband radios.
It is expected that as older wideband radios are removed from service that this issue will be resolved. Most radios in use will be narrowband eliminating this issue.
This information is current at time of printing. For further up to date information please visit www.acma. gov.au.

Oricom Connecting you now.

N13134
Z765

This unit complies with all relevant Australian and New Zealand approval requirements AS/NZS 4365:2011 including radio communications (Electromagnetic Radiation Human Exposure) standard 2003.

Safety Information and Warnings

⚠️
WARNING

Information on Safe Operation

Read This Information Before Using Your Oricom Radio.

The operation of your UHF radio in Australia and New Zealand is subject to conditions in the following licenses:

In Australia the ACMA Radio communications (Citizen Band Radio Stations) and in New Zealand by MED the General User Radio License for Citizen Band Radio.

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.

Read all these Safety Warnings before you install or charge the rechargeable battery pack

• Do not dispose of the battery pack in a fire as it may explode.Use only the battery pack supplied with the product. Improper use, or use of unapproved batteries may present a risk of fire, explosion, or other hazard, and may invalidate any approval or warranty.

⚠
WARNING

- Exercise extreme care when handling batteries in order not to short the battery with conducting materials such as rings, bracelets and keys. The battery or conduction material may overheat explode and or cause burns.

- Never replace or charge the battery pack in a potentially explosive atmosphere (such as where gas is leaking) as contact sparking may occur while installing or removing the battery pack cause a fire or an explosion.

- Do not modify, cut, unwrap, disassemble, crush, bend, puncture, heat or damage the battery pack.

- If a battery pack leaks, do not let the battery liquid touch skin or eyes. If this happens, immediately flush the affected areas with water, and seek medical assistance.

Released electrolyte is corrosive and may cause damage to the eyes and skin. It may be toxic if swallowed.

- Do not immerse or expose the battery pack to water or other liquids.

- If you believe the battery pack is damaged, remove product from the charger and stop using the product. Contact Oricom for assistance.

- Never use a damaged battery pack as it may explode.

- Remove batteries when they are no longer able to hold a charge and when the equipment will not be used for an extended period of time.

- Dispose of the battery pack according to local regulations, never in your household rubbish.

⚠️ WARNING

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.

Exposure to Radio Frequency Energy
Your Oricom two-way radio complies with Australian Communications Authority Radio communications (Electromagnetic Radiation-Human Exposure) Standard, 2003. To assure optimal radio performance and make sure human exposure to radio frequency electromagnetic energy is within the guidelines set out in the above standards always adhere to the following procedures.

⚠️
WARNING

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.

⚠ WARNING

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 minimize 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.

Pack Contents

2 x Handheld Radios
2 x Battery Packs
1 dual charger
1 power adaptor

Installing/Removing the Belt Clip

1. To install the belt clip, align the pin with the hole in the backside. Gently push until it clicks into position.
2. To remove the belt clip from the unit, push the belt clip, while pulling the clip away from the unit.
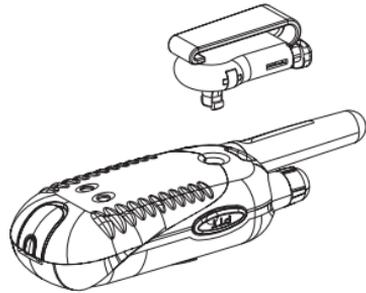
Battery Installation

1. Remove the belt clip
2. Pull the battery cover tab and gently remove the battery cover.
3. Install the rechargeable battery pack (KEBT-079-1, LH060-3A44C3BT) following the polarity as shown. The metal contacts should face outwards from the radio to connect on the battery door. Or install 3 'AAA' alkaline (not supplied) following the polarity as shown.
4. Re-install the Battery Cover and Belt Clip
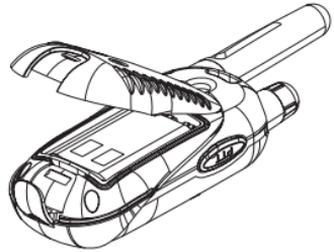
⚠️ WARNING   **Do not disassemble the battery pack.**

Charging batteries

When NiMh battery packs are installed, the desktop charger provides drop-in charging convenience.

1. Put the desktop charger on a flat surface.
2. Plug the supplied adaptor into the electric socket. Pay attention to the mentioned voltage and compare this with the indications of the power supply. Connect the low tension plug at the end of the cable with the connector on the backside of the desktop charger.
3. Put the radio in the charger as indicated.
4. The charging LED will turn on if it's properly inserted and charging.

It will take about 12 to 14 hours to fully charge the batteries. There is no indication on the display when the batteries are being charged.

Note:

Use only power supplies
KEAD-223-A (SSA-5W-09 EU 090020F)
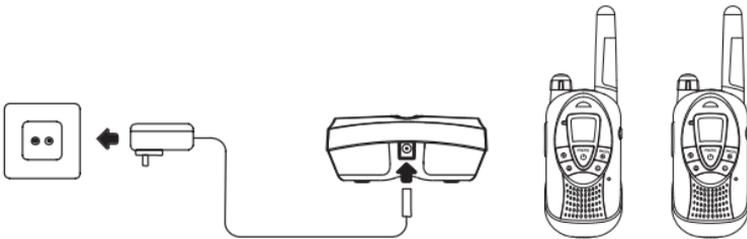
Note: The device can also operate with 3 x AAA NiMh batteries or with 3 x AAA Alkaline batteries. But they cannot be charged with the charger.

Battery Charge Level

The BATTERY CHARGE LEVEL is indicated by the number of squares present inside the BATTERY icon on the LCD Display.

 Battery Full Battery 2/3 charged Battery 1/3 charged Battery empty

When the battery charge level is low, a beep will be heard.

Handset

1. Antenna
2. LCD Display
3. Earpiece connector
4. Menu / Key pad lock icon
5. Scan / Monitor button
6. Up button
   -Increase the speaker volume
   -Select the next value in the menu.
7. Speaker
8. Down button
   -Decrease the speaker volume
   -Select the previous value in the menu.
9. Call button
10. PTT button
11. TX LED
    -"Lights during transmission" during transmission
12. Channel Select Button
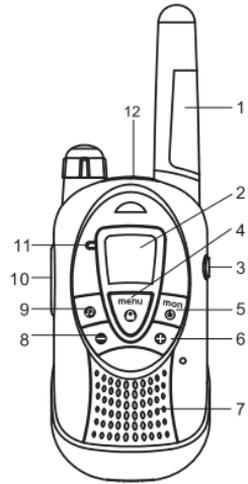
LCD Display

1. VOX icon
2. Key Tone icon
3. CTCSS code/Duplex mode
4. Chronometer icon
5. Key pad lock icon
6. Squelch Level indication
7. TX icon – displayed when transmitting
8. RX icon – displayed when receiving
9. Channel number / Volume level indication
10. Scan icon
11. Battery level indication
12. Roger Beep icon
13. Call Tone icon   14. Room/Baby monitor icon

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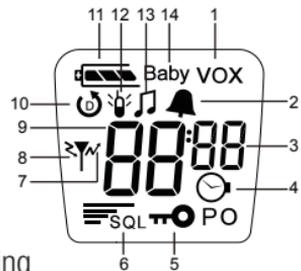
Turning the unit ON/OFF

The power on/off is controlled by a rotational knob, use the knob the turn the unit on or off.

Adjusting Speaker Volume

The volume is controlled by the rotational knob, rotate the knob to adjust the volume up and down.

Receiving a Signal

The unit is continuously in the RECEIVE mode when the unit is switched ON and not transmitting.

Note: In order for other people to receive your transmission, they must also be on the same channel and have set the same CTCSS code.

Transmitting a Signal

1. Press and hold the PTT button to TRANSMIT. The TX symbol is displayed.
2. Hold the unit in a vertical position with the MICROPHONE 10cm from the mouth and speak into the microphone.
3. Release the PTT button when you want to stop transmitting.

Note: To check the channel activity use the monitor function. The maximum transmitting time is limited to 1 minute. Release and press PTT button to restart transmitting.

Transmitting range

The talk range depends on the environment and terrain. The radio can reach (up to about 7km) in wide open spaces, without 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.

Optimal Range
Outdoors
Flat, open areas

Medium Range
Outdoors
Buildings or trees
Also near residential
buildings

Minimal Range
Outdoors
Dense foliage or
mountains. Also inside
some buildings

Changing Channels

Your radio has 75 available channels, to communicate with other radios's, you must have your radio tuned to the same channel.

1. Press the **menu** button once, the current channel number flashes on the display.
2. Press ✚ the button or the ➖ button to change the channel.
3. Press the **PTT** button to confirm and return to stand-by mode.

Note: If no button is pressed within 5 seconds during setting, the unit will return to standby.

Duplex mode

The units support the use of repeater in Duplex mode or without the use of repeater in Simplex mode. This Duplex mode is only supported for Channel 1 to Channel 8 and Channel 41 to Channel 48. If the Channel is set either Channel 1to Channel 8 or Channel 41 to Channel 48,Press Menu until "r" is displayed, then press ✚ or ➖ to switch "ON/OFF" the duplex mode or Simplex mode.

To turn Duplex ON or OFF

1. Press **"menu"** button until **"r"** displays.
2. Press ✚ or ➖ until "ON" displays to turn Duplex mode ON or until "OF" displays to turrn Simplex mode.
3. Press **MENU** or **PTT** button to confirm your selection.

CTCSS (Continuous Tone Coded Squelch System)

The 2 digit CTCSS code corresponds to a specific tone frequency the radio emits. Two users, with the same channel and CTCSS set can hear one another. They will not be able to hear anyone else on the channel unless the other radios have the same exact CTCSS code enabled. The unit has 38 CTCSS codes available.

1. Press the **menu** button until the current CTCSS code flashes on the display.
2. Press the ✚ button or the ➖ button to change to another code.
3. Press the **PTT** button to confirm and return to stand-by mode.

Note: Any radio set on the same channel can receive and listen to the conversation, also when the other use a CTCSS code.

To disable CTCSS code, set the code to '0'.

Channel 5 and 35 are used for emergency channels.
Interference Eliminator Code will not operate on these two channels.

Monitor

You can use the monitor feature to check for weaker signals in the current channel.

1. Press and hold the 🔘 button to activate channel monitoring.
2. Release the 🔘 button to stop monitoring.

Room/baby function

One of the units can be set as Room/baby. The radio will transmit a signal when it is activated by the crying baby or another sound in the room (VOX).

The radio will no longer be able to receive signals to avoid that your baby is disturbed during his sleep.

The other radio must be set to the same channel and CTCSS code to receive the signal from the Room/Baby Monitor.

Note: In Room/Baby Monitor mode, different functions are disabled (accept Button Lock, Menu and On/Off function). Only when the Baby Monitor mode is disabled, all functions can be used again.

To set the radio as the Room/Baby Monitor:

1. Press the **menu** button until the BABY icon appears, the current Baby Vox setting flashes on the display and the BABY icon is displayed.
2. Press the ➕ button to turn the Room/Baby MONITOR function ON. Use the ➕ button and the ➖ button to select the VOX sensitivity level (1 to 3) which displayed.
3. Press the **PTT** button to confirm and return to stand-by mode

To deactivate the Room/Baby Monitor:

1. In stand-by, press the menu button until the BABY icon appears, the current Baby Vox setting flashes on the display and the BABY icon is displayed.
2. Press the ⊖ button until 'OF' appears on the display, to turn the Room/Baby monitor off.
3. Press the **PTT** button to confirm and return to stand-by mode.

Note: If in Room/Baby Monitor mode an earpiece is plugged in, then the Room/Baby Monitor mode will be disabled when pressing the PTT button.

Setting the Call Tone

The unit has 10 call tones

1. Press the **menu** button until 🎵 is displayed.
2. Press the ⊕ button or the ⊖ button to change to another Call Tone. Select 'OF' to disable the call tones.
3. Press the **PTT** button to confirm and return to stand-by mode.

Sending a call Tone

Press the 🎵 button briefly. The call tone will be transmitted on the set channel.

VOX Selection

The radio is capable of voice activated (VOX) transmission. In VOX mode, the radio will transmit a signal when it is activated by your voice or other sound around you. VOX operation is not recommended if you plan to use your radio in a noisy or windy environment.
Note: When you use the radio with a headset, the VOX function will be disabled as soon as you plug in the earpiece connector.

VOX mode will be disabled when you press the PTT button

1. Press the **menu** button until VOX icon appears, the current VOX setting flashes on the display and the VOX icon is displayed.

2. Press the ➕ button to turn the VOX feature ON. Press ➕ the button again to set the VOX sensitivity level between 1 and 3. Press the ➖ button until 'OF' appears on the display, to turn VOX OFF.

3. Press the **PTT** button to confirm and return to stand-by mode.

Squelch level selection

The adjustable Squelch allows you to optimise the radios sensitivity. It also allows you to increase the sensitivity and receive weaker signals.

There are 4 decreasing levels of sensitivity. 1 is the most sensitive, for detecting the weakest signals. 4 is the least sensitive, for hearing only stronger signals and cutting out interference from weak signals.

At higher sensitivity settings it is normal to hear occasionally background static noise

1. Press the **menu** button six times, the current Squelch Level flashes on the display.

2. Press the ➕ button or the ➖ button to change to another Squelch Level.

3. Press the **PTT** button to confirm and return to stand-by mode.

Channel Scan

Use scan to search the 75 channels for transmissions from unknown parties, to find someone in your group who has accidentally changed channels, or to quickly find unused channels for your own use.

There is a priority feature and 2 modes of scanning (basic and advanced) to make your search more effective. The basic scan mode uses the channel and code combinations for each of the 75 channels as you have set them (or with the default code value of 0). The "Advanced Scan" mode will scan all channels for any and all codes, detect any code in use, and use that code value temporarily for that channel.

To start Scanning:

1. Briefly press the ⚫ key. The scan icon will appear in the display, and the radio will begin to scroll through the channel and code combinations.
2. When the radio detects channel activity matching the channel and code combination, it stops scrolling and you can hear the transmission.
3. To respond and talk to the person transmitting, press **PTT** within five seconds after the end of the transmission.
4. The radio will resume scrolling through the channels five seconds after the end of any received activity.
5. To stop scanning, briefly press the ⚫ key.

To start Advanced Scanning:

1. Set the Interference Eliminator Code to "**zero**" or **OFF**.
2. Briefly press the ⚫ key. The scan icon will appear in the display, and the radio will begin to scroll through the channels. No Interference Eliminator Codes will filter what is heard.
3. When the radio detects channel activity with ANY code (or NO code), it stops scrolling and you can hear the transmission. Any Interference Eliminator Code that may be in use by that party will be detected and displayed.
4. To respond and talk to the person transmitting, press **PTT** within five seconds of the end of the transmission. The radio will transmit using the newly detected Interference Eliminator Code.
5. The radio will resume scrolling through the channels five seconds after the end of any received activity.
6. To stop scanning, briefly press the ⚫ key.

Scanning Notes:

1. If you press **PTT** while the radio is scrolling through inactive channels, the transmission will be on the "home channel". Scanning will resume five seconds after the end of your

transmission. You may press the 🔵 key to stop scanning at any time.

2. If the radio stops on an undesired transmission, you may immediately resume the scan by briefly pressing ➕ or ➖.

3. If the radio repeatedly stops on an undesired transmission, you may temporarily remove that channel from the scan list by pressing and holding ➕ or ➖ for three seconds. You may remove more than one channel in this way.

4. To restore the removed channel(s) to the scan list, turn the radio off and then back on, or exit and re-enter the scanning mode by pressing 🔵 .

5. You cannot remove the home channel from the scan list.

6. In Advanced Scan, the detected code will only be used for one transmission. You must note the code, exit scan, and set that detected code on that channel to permanently use the detected code.

Dual Channel scan

In stand-by, the radio is set on one set channel with CTCSS code. The radio will only receive signals transmitted on that channel and CTCSS code.

Dual Channel Monitor allows you to monitor a second channel with CTCSS code.

How to enable dual scan:

For example, user wants to monitor the standby channel 1 with code 30 and dual channel 2 with code 38.

1. Set the channel is 2 and code is 38.

2. Set the channel is 1 and code is 30. Then the standby channel is 1 with code 30.

3. Press the **menu** button until the dual channel scan icon 🔄 appears on the display.

4. Press the ➕ button or the ➖ button to set the dual channel to 2.

5. Press the PTT button to confirm and return to stand-by mode.

How to disable dual scan:

Press the **menu** button until the dual channel scan icon ⟳ appears on the display. Then press the ➕ button or the ➖ button until 'oF' is displayed.

When the Dual Channel Monitor function is activated, the radio will switch sequentially between the standby channel + CTCSS and the Dual Channel + CTCSS.

When there is activity on the Dual Channel + CTCSS, the active channel will be displayed for 5 seconds after the activity has ended. Within this period, you have the possibility to answer the transmission.

Duplex operation via Repeaters

This feature allows to use local repeater stations that are designed to automatically re-transmit your broadcast over a large area thus giving you increased range.

Repeaters stations are privately operated radio systems installed throughout Australia.

For example, if you wish to access a repeater station in your area which operates on channel 2 you only need to set the Duplex access on this Channel.

So, if you are in the range of a local repeater which transmits on channel 2, after setting your radio to allow access of the repeater on that channel, you will select channel 2 as normal, but during transmit operation your radio will automatically transmit to the repeater on channel 32.

Turning on/off Duplex on channels

a.   Select the required channel to suit the repeater station you wish to access (Channels 1 – 8 and 41 – 48)
b.   Press the Menu button twice, "RPT" icon will display
c.   Press the UP or DOWN button to set the Duplex function to On or Off.
d.   Press the **PTT** button to confirm your setting.
e.   The RPT icon will display to indicate that Duplex is set on that channel.

Receive Channel	1	2	3	4	5*	6	7	8
Transmit channel	31	32	33	34	35*	36	37	38

Receive Channel	41	42	43	44	45	46	47	48
Transmit channel	71	72	73	74	75	76	77	78

* Channel 5 is emergency channel only

Setting the Repeater function
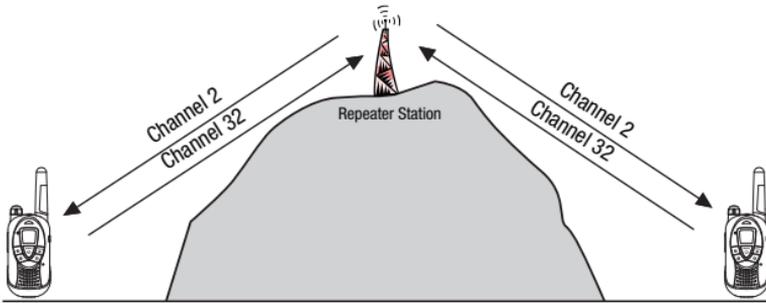
a. Press the Menu button 2 time on a repeater channel, "RPT" icon will be displayed and flashing on the LCD screen.

b. Press the UP or DOWN button to set the Repeat function to On or Off.

c. Press the PTT button to confirm your setting.

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Key Tone On/Off

When a button is pressed, the unit will beep briefly.

1. Press the **menu** button until the current Key Tone setting 🔔 flashed on the display.
2. Press the ⊕ button or the 🔔 button to enable (ON) or disable (OF) the Key Tone.
3. Press the **PTT** button to confirm and return to stand-by mode.

Chronometer

The unit has a chronometer function (mm:ss).

1. Press the **menu** button until the counter is displayed.
2. Press the ⊕ button to start counting.
3. Press the ⊕ button again to stop counting and see the lap time. The counter continues in the background. Press the ⊕ button to proceed counting.
4. When the counter is stopped, press the ⊖ button to reset the counter.

It also has 30s, 60s, 90s, and 120s times counter function.

Note: After selecting this function, and also after resetting the counter, the measurement should be started within 5 seconds. If not, the device shall return to stand-by.

Roger Beep On/Off

After the PTT button is released, the unit will send out a roger beep to confirm that you have stopped talking.

1. Press the **menu** button until the current Roger Beep setting ˈʠˊ flashes on the display.
2. Press the ⊕ button or the ˈʠˊ button to enable (ON) or disable (OF) the Roger Beep.
3. Press the **PTT** button to confirm and return to stand-by mode.

Button Lock

1. Press and hold the ⏻ button for 3 seconds to activate the Button Lock mode. The Button Lock icon is displayed on the LCD Screen.

2. Press and hold the ⏻ button again to deactivate Button Lock.

Note: The Button Lock is not valid for the 🎵 button, 🔘 button, ⏻ button and the PTT button.

Display back light

To activate the backlight of the LCD display, press any button except the **PTT** button or the 🎵 button.

The LCD backlight will light up for 5 seconds.

Headset connection

The unit can be used with the headset.

The connector is located under the protective rubber cover on the right side of the unit. To attach the headset, remove the rubber flap to expose the connector.

Insert the headset plug into the connector (2.5mm jack).

The small button on the headset has the same function as the **PTT** button on the unit.

When you use the **PTT** Button from the headset, you must also use the microphone from the headset wire.

Channel select button

No matter which channel is on, press and hold the button for about 3 seconds, the Radio will switch from working channel to channel 5 in duplex mode. It means that the radio transmits on channel 35 and receives on channel 5.

To exit this mode: Press and hold the button for about 3 seconds.

Channel Frequency Table

Radiocommunications (Citizen Band Radio Stations) Class Licence 2002

No licence is required to own or operate this radio in Australia and New Zealand. The Radiocommunications (Citizen Band Radio Stations) Class Licence 2002 contains the technical parameters, operating requirements, conditions of licence and relevant standards for Citizen Band (CB) radios. CB radios must comply with the class licence for their use to be authorised under the class licence.

UHF channels and frequencies

IMPORTANT NOTE: The operation of your UHF radio in Australia and New Zealand is subject to conditions in the following licenses: In Australia the ACMA Radio communications (Citizen Band Radio Stations) and in New Zealand by MED the General User Radio License for Citizen Band Radio.

Channel		Tx Freq MHZ	Rx Freq MHz	Channel		Tx Freq MHz	Rx Freq MHz
01*		476.4250	476.4250	21		476.9250	476.9250
	41*	-	476.4375		61‡	—	—
02*		476.4500	476.4500	22†		476.9500	476.9500
	42*	-	476.4625		62‡	—	—
03*		476.4750	476.4750	23†		476.9750	476.9750
	43*	-	476.4875		63‡	—	—
04*		476.5000	476.5000	24		477.0000	477.0000
	44*	-	476.5125		64	477.0125	477.0125
05*		476.5250	476.5250	25		477.0250	477.0250
	45*	-	476.5375		65	477.0375	477.0375
06*		476.5500	476.5500	26		477.0500	477.0500
	46*	-	476.5625		66	477.0625	477.0625
07*		476.5750	476.5750	27		477.0750	477.0750
	47*	-	476.5875		67	477.0875	477.0875
08*		476.6000	476.6000	28		477.1000	477.1000
	48*	-	476.6125		68	477.1125	477.1125
9		476.6250	476.6250	29		477.1250	477.1250
	49	476.6375	476.6375		69	477.1375	477.1375
10		476.6500	476.6500	30		477.1500	477.1500
	50	476.6625	476.6625		70	477.1625	477.1625
11		476.6750	476.6750	31*		477.1750	477.1750

	51	476.6875	476.6875		71*	477.1875	-
12		476.7000	476.7000	32*		477.2000	477.2000
	52	476.7125	476.7125		72*	477.2125	-
13		476.7250	476.7250	33*		477.2250	477.2250
	53	476.7375	476.7375		73*	477.2375	-
14		476.7500	476.7500	34*		477.2500	477.2500
	54	476.7625	476.7625		74*	477.2625	-
15		476.7750	476.7750	35*		477.2750	477.2750
	55	476.7875	476.7875		75*	477.2875	-
16		476.8000	476.8000	36*		477.3000	477.3000
	56	476.8125	476.8125		76*	477.3125	-
17		476.8250	476.8250	37*		477.3250	477.3250
	57	476.8375	476.8375		77*	477.3375	-
18		476.8500	476.8500	38*		477.3500	477.3500
	58	476.8625	476.8625		78*	477.3625	-
19		476.8750	476.8750	39		477.3750	477.3750
	59	476.8875	476.8875		79	477.3875	477.3875
20		476.9000	476.9000	40		477.4000	477.4000
	60	476.9125	476.9125		80	477.4125	477.4125

* The primary use for these channels is repeater operation using 750 kHz offset. Channels 1-8 and 41-48 inclusive are used for mobile reception and channels 31-38 and 71-78 for mobile transmission. In addition, any designated repeater channel may be used for simplex operation in areas where it is not used for repeater operation.

† Speech telephony shall be inhibited on these channels.

‡ At the time of production Channels 61,62 and 63 are guard channels and are not available for use.

Channel 5 and 35 (paired for Duplex repeaters) are reserved as emergency channels and should be used only in an emergency. CTCSS and DCS will not operate on channels 5 and 35.
A list of currently authorised channels can be obtained from the ACMA website in Australia and the MED website in New Zealand. Channel 11 is a calling channel generally used to call others and channel 40 is the customary road vehicle channel.
Once contact is established on the calling channel, both stations should move to another unused "SIMPLEX" channel to allow others to use the calling channel.

Channels 22 and 23 are for Telemetry and Telecommand use, voice communications are not allowed on these channels by law.
Channel 9 and above are the best choices for general use in Simplex mode.

38 CTCSS CODE LIST

CODE	Frequency(Hz)	CODE	Frequency(Hz)
OFF	OFF	20	131.8
1	67.0	21	136.5
2	71.9	22	141.3
3	74.4	23	146.2
4	77.0	24	151.4
5	79.7	25	156.7
6	82.5	26	162.2
7	85.4	27	167.9
8	88.5	28	173.8
9	91.5	29	179.9
10	94.8	30	186.2
11	97.4	31	192.8
12	100.0	32	203.5
13	103.5	33	210.7
14	107.2	34	218.1
15	110.9	35	225.7
16	114.8	36	233.6
17	118.8	37	241.8
18	123.0	38	250.3
19	127.3		

Customer Support

If you have any problems setting up or using this product you will find useful tips and information in the Troubleshooting section of this user guide as well as "Frequently Asked Questions" on our website www.oricom.com.au.
If you have further questions about using the product after reviewing the resources above or would like to purchase replacement parts or accessories please call our Customer Support Team. Our dedicated local support team are more likely to be able to help you than the retailer where you made your purchase.

Important

Please retain your purchase receipt and attach to the back page of this user guide as you will need to produce this if warranty service is required. Take a few moments to register your product online: www.oricom.com.au.

How to make a claim under Warranty in Australia

Oricom has a simple warranty process for you to follow:

- Please call or email our Customer Support Team, contact details follow.
- A Customer Support Team member will verify after troubleshooting with you if your product qualifies under warranty. If so, they will give you a Product Return Authorisation number.
- We will then email or fax a Return Authorisation form and a Repair Notice (if necessary), together with instructions on how to return the goods for warranty service.

Please note that if a Customer Support Team member advises that your product does not qualify for return, this warranty does not apply to your product.

Products that are authorised to be returned to Oricom in Australia must include all of the following:

- A completed Return Authorisation form
- A copy of your Proof of Purchase (please keep your original copy)
- The faulty product, including all accessories.

Send the approved returns to:

Oricom International Pty Ltd

Locked Bag 658

South Windsor NSW 2756 Australia

Please note that this warranty excludes expenses incurred by you in returning any faulty product to us. You must arrange and pay any expenses incurred (including postage, delivery, freight, transportation or insurance of the product) to return the faulty product to us, however, we will arrange delivery of the repaired or replaced faulty product to you.

Important Information

Repair Notice

Please be aware that the repair of your goods may result in the loss of any user-generated data (such as stored telephone numbers, text messages and contact information). Please ensure that you have made a copy of any data saved on your goods before sending for repair.

Please also be aware that goods presented for repair may be replaced by refurbished goods or parts of the same type rather than being repaired.

Warranty Information (Australia)

This Warranty is provided by Oricom International Pty Ltd ABN 46 086 116 369, Unit 1, 4 Sovereign Place, South Windsor NSW 2756, herein after referred to as "Oricom".

Oricom makes no other warranties or conditions, express or implied, including as to acceptable quality and fitness for a particular purpose, except as stated in this Warranty.

Any implied warranties that may be imposed by law are limited in duration to the Warranty Period.

Oricom warrants that the product is free from defects in materials or workmanship during the Warranty Period. This Warranty does not extend to any product from which the serial number has been removed or was purchased outside of Australia.

This warranty in no way affects your statutory warranty rights under the Competition and Consumer Act 2010 or any other similar legislation.

The Warranty Period will be 3 years from the date of purchase of the product evidenced by your dated sales receipt. You are required to provide proof of purchase as a condition of receiving warranty services.

You are entitled to a replacement product or repair of the product according to the terms and conditions of this document

if your product is found to be faulty within the Warranty Period. This Warranty extends to the original purchaser only and is not transferable.

Rechargeable battery cells and rechargeable battery packs (if supplied) with this product are covered under this warranty for a period of 90 days.

Products distributed by Oricom are manufactured using new materials or new and used materials equivalent to new in performance and reliability. Spare parts may be new or equivalent to new. Spare parts are warranted to be free from defects in material or workmanship for thirty (30) days or for the remainder of the Warranty Period of the Oricom branded product in which they are installed, whichever is longer. During the Warranty Period, Oricom will where possible repair and if not replace the faulty product or part thereof. All component parts removed under this Warranty become the property of Oricom. In the unlikely event that your Oricom product has a recurring failure, Oricom may, subject to the Competition and Consumer Act 2010, at its discretion, elect to provide you with a replacement product of its choosing that is at least equivalent to your product in performance.

Oricom does not warrant that the operation of the product will be uninterrupted or error free.

Oricom is not responsible for damage that occurs as a result of your failure to follow the instructions that came with the product. These terms and conditions together with any specific terms and conditions contained in the user guide to the product purchased constitute the complete and exclusive agreement between you and Oricom regarding the product.

No change to the conditions of this Warranty is valid unless it is made in writing and signed by an authorised representative of Oricom. Oricom will not be in breach of a warranty expressly set out in this User Guide or under the Competition and Consumer Act 2010 and excludes any liability for damages or any other remedy arising under any other legislation or the common law if the damage occurs as a result of:

1. failure by you to adhere to the warnings and follow the instructions set out in this user guide for the proper installation and use of the product;
2. negligence on your part or misuse by you of the product;
3. an uncontrollable external cause which results in the product not functioning including but not limited to power failure, lightning or over voltage; and
4. modification to the product or services carried out on the product by anyone other than Oricom or Oricom's authorised service provider.

Oricom will not be liable for any damages caused by the product or the failure of the product to perform, including any lost profits or savings or special, incidental or consequential damages. Oricom is not liable for any claim made by a third party or made by you on behalf of a third party. This limitation of liability applies whether damages are sought, or a claim made, under this Warranty or as a tort claim (including negligence and strict product liability), a contract claim or any other claim. However, this limitation of liability will not apply to claims for personal injury. Nothing in this Warranty excludes, restricts or modifies any condition, warranty, right or remedy which pursuant to the Competition and Consumer Act 2010 applies to this Warranty and which may not be so excluded, restricted or modified. For warranties that cannot be excluded, restricted or modified, Oricom limits the remedies available to those specified in the relevant legislation.

Oricom products come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Ref: 21112012