

**Two-Way Radio**  
**User Guide**



KEM-ML14190-51

MC229R

Keep this user guide for future reference. Always retain your proof of purchase in case of warranty service and register your product online at: AUSTRALIA: [www.oricom.com.au](http://www.oricom.com.au)  
Oricom Customer Support - 1300 889 785 or (02) 4574 8888

**Safety and General Information**

**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](http://www.acma.gov.au)**



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**  
**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 rechargeable battery pack in a fire as it may explode.
- Use only the rechargeable 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.
- Exercise extreme care when handling batteries in order not to short the batteries with conducting materials such as rings, bracelets and keys. The batteries 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 batteries cause a fire or an explosion.
- Do not modify, cut, disassemble, crush, bend, puncture, heat or damage the battery pack.
- If the 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 damaged batteries as they may explode.
- Remove the battery pack when it is no longer able to hold a charge and when the equipment will not be used for an extended period of time. Dispose of the batteries according to local regulations, never in your household rubbish.
- Risk of explosion if the battery pack is replaced by an incorrect type. Only use the AC power adaptor supplied with this product. Using any other AC adaptor will invalidate any approvals and warranty and could be potentially dangerous.
- Do not attempt to charge non-rechargeable Alkaline batteries.

**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.

**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 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.

**Battery Charger Safety Instructions:**

**Save these Instructions**

1. Do not expose the charger to rain or snow.
2. Do not operate or disassemble the charger if it has received a sharp blow, or has been dropped or damaged in any way.
3. Never alter the AC cord or plug provided with the unit. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician. An improper condition can result in a risk of electric shock.
4. To reduce the risk of damage to the cord or plug, pull the plug rather than the cord when disconnecting the charger from the AC receptacle.
5. To reduce the risk of electric shock, unplug the charger from the outlet before attempting any maintenance or cleaning.
6. Use of an attachment not recommended or sold by Motorola may result in a risk of fire, electric shock or personal injury.
7. Make sure the cord is located so it will not be stepped on, tripped over or subjected to damage or stress.
8. An extension cord should not be used unless absolutely necessary. Use of an improper extension cord could result in a risk of a fire and/or electric shock. If an extension cord must be used, make sure that:
  - The pins on the plug of the extension cord are the same number, size and shape as those on the plug of the charger.
  - The extension cord is properly wired and in good electrical condition.
9. The supply cord of the AC adaptor cannot be replaced. If the cord is damaged, please refer to warranty section.

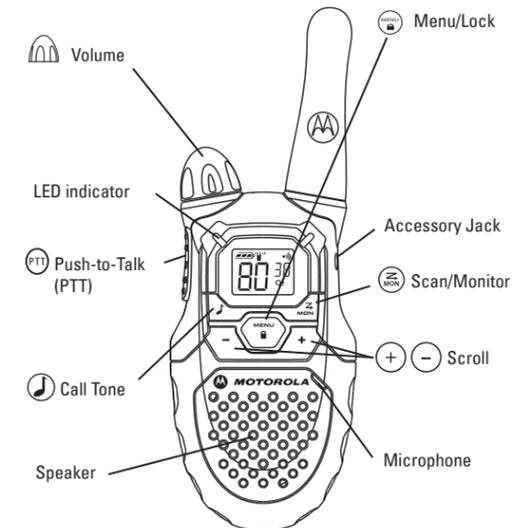
**Radio communications**  
**(Citizen Band Radio Stations) Class License 2011**

Your Motorola radio operates on UHF CB frequencies and is subject to the Rules and Regulations of the ACMA radio communications and in New Zealand by MED General User Radio License for Citizens Band Radio and operation is subject to conditions contained in those licenses. You can find more information about License by visiting the website at [http://www.acma.gov.au/WEB/STANDARD/pc=PC\\_1265](http://www.acma.gov.au/WEB/STANDARD/pc=PC_1265)  
**Note:** Use of this radio outside the country where it was intended to be distributed is subject to government regulations and may be prohibited.

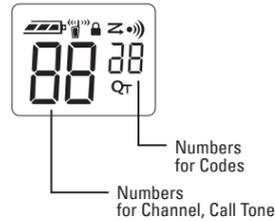
**PACKAGE CONTENTS**

- 2 handheld radio transceivers
- 2 belt clips
- 1 charger cradle
- 1 power adaptor
- 2 NiMH battery packs

**Control Buttons**



**Display Screen Guide**



- Battery Meter
- Channel Power Indicator
- Lock
- Scan
- Noise Filtering
- Talk confirmation Tone (Roger Beep)

**Getting Started**

**Installing the Batteries**

Each radio can use either 1 NiMH rechargeable battery pack or 3 AA alkaline batteries and beeps when the batteries are low.

**Installing NiMH Rechargeable Battery Pack (Supplied)**

1. Turn the radio off.
2. With the back of the radio facing you, lift the battery cover latch up and remove the cover.
3. Remove the battery pack from the clear plastic bag (do not disassemble or unwrap the battery pack).
4. Insert the NiMH battery pack with the diagram facing you.
5. Reposition the battery cover and press down to secure.

**Installing the Three AA Alkaline Batteries (Not Supplied)**

1. Turn the radio off.
2. With the back of the radio facing you, lift the battery cover latch up and remove the cover.
3. Insert the three AA alkaline batteries with + and - polarity as shown inside.
4. Reposition the battery cover and press down to secure.

**Radio Battery Meter**

The radio battery icon shows the battery charge level, from full to empty . When the radio has one segment left, the radio chirps periodically or after releasing (Low Battery Alert).

**Removing the NiMH Battery Pack**

1. Turn the radio off.
2. With the back of the radio facing you, lift the battery latch up to release the battery cover and remove the cover.
3. Gently remove the NiMH battery.
4. Reposition the battery cover and press down to secure.

**Removing the Three AA Batteries**

1. Turn the radio off.
2. With the back of the radio facing you, lift the battery latch up to release the battery cover and remove the cover.
3. Gently remove each battery by easing each battery out individually.
4. Reposition the battery cover and press down to secure.

**Notes**

- Exercise care when removing NiMH or AA batteries. Do not use sharp or conductive tools to remove either of these batteries.
- Remove the batteries before storing your radio for extended periods of time. Batteries corrode over time and may cause permanent damage to your radio.

**Using the Battery Charger**

The battery charger provides drop-in charging convenience for NiMH batteries and can be placed on any flat surface, such as a desk or workbench. Charge the NiMH battery overnight (at least 16 hours) before using it for the first time. After the initial charge, an empty battery is fully charged within 14 hours.

1. Follow the steps above to install a NiMH Battery Pack.
2. Plug the AC power supply cord into the jack on the desk stand.
3. Plug the AC power supply into a standard wall outlet.
4. With a radio facing forward, slide it into one of the charging cradles.
5. When charging the battery, the red light on the charger base will glow continuously.

**Notes**

- The light will remain red after the NiMH battery pack is fully charged.
- When moving between hot and cold temperatures, do not charge the NiMH battery pack until the battery temperature acclimatizes (usually about 20 minutes).
- For optimal battery life, remove the radio or battery from the charger within 16 hours. Do not store the radio while connected to the charger.
- Turn radio off while in charging cradle.

**Attaching and Removing the Belt Clip**

1. Attach belt clip to pocket or belt strap.
2. Align the belt clip post with the hole in the back of the radio.
3. Gently push until the clip clicks in place.

**To Remove**

1. Push down on the release tab at the top of the belt clip to release the catch.
2. Pull the belt clip away from the back of the radio.

**Turning Your Radio On and Off**

Turn clockwise to turn the radio on and counterclockwise to turn the radio off.

1. In the ON position, the radio chirps and briefly shows all feature icons available on the radio.
2. The display screen then shows the current channel, code and all features that are enabled.

**Setting the Volume**

Press and hold for three seconds while rotating until you reach a comfortable listening level.

1. Rotate clockwise to increase the volume.
2. Rotate counterclockwise to decrease the volume.

Do not hold the radio close to your ear. If the volume is set to an uncomfortable level, it could hurt your ear.

**Talking and Listening**

To communicate, all radios in your group must be set to the same channel and Interference Eliminator Code.

1. To talk, press and hold .
2. When you are finished talking, release .

For maximum clarity, hold the radio 5-10cm away from your mouth and speak directly into the microphone. Do not cover the microphone while talking.

**Talk Range**

Your radio is designed to maximize performance and improve transmission range. Do not use the radios closer than 2m apart.

**Monitor Button**

Pressing and holding for three seconds allows you to listen to the volume level of the radio when you are not receiving. This allows you to adjust the volume, if necessary. You can also press to check for activity on the current channel before you talk.

**Push-to-Talk (PTT) Timeout Timer**

To prevent accidental transmissions and save battery life, the radio emits a continuous warning tone and stops transmitting if you press for 60 continuous seconds.

**Menu Operation**

**Setting the channel**

Your radio has 75 channels (channels 1-80, except 22, 23, 61, 62, 63).

1. Press the button once, the current channel number flashes on the display.
2. Press the button or the button to change the channel.
3. Press the 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.

In Australia, except in an emergency a CB Radio must not be operated on UHF emergency channels 5 & 35. No voice transmission shall be made on UHF channels 22 & 23. Before transmitting, ensure to listen to the UHF channel of use to ensure it is not already in use. Channels 61, 62 and 63 are reserved.

UHF Repeater operation is used when long distance communication is required, unless specifically needed use of the repeater channels is to be avoided. Note that in Australia Channel 11 is the customary calling channel for establishing communication and Channel 40 is the customary road vehicle channel.

**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 1 to Channel 8 or Channel 41 to Channel 48, Press Menu until "r" to flash, then press or to switch "ON/OFF" the duplex mode or Simplex mode.

**To turn Duplex ON or OFF**

1. Press button until " r " displays.
2. Press or until "oN" displays to turn Duplex mode ON or until "oF" displays to turn Simplex mode.
3. Press or button to confirm your selection.

**Selecting the Interference Eliminator Code**

Interference Eliminator Codes help minimize interference by blocking transmissions from unknown sources. Codes 1 – 38 are the standard analogue codes that appear on other UHF radios. 0 is the off position, no codes are enabled.

*To set the code for a channel:*

- Press MON<sup>ⓘ</sup> until the code starts to flash.
- Press +<sup>ⓘ</sup> or −<sup>ⓘ</sup> to select the code.
- Press PTT<sup>ⓘ</sup> to save the code setting or MON<sup>ⓘ</sup> to continue set up. You can set a different code for each channel using this procedure. An extended press of +<sup>ⓘ</sup> or −<sup>ⓘ</sup> allows you to scroll through the Interference Codes rapidly so you can quickly reach the code you want.

**Notes**

- You must set the Interference Eliminator Code to 0 on a radio that uses Interference Eliminator Codes to communicate with radios that do not have Interference Eliminator Codes. Select 0 for “no tone, no code” and OFF will flash on your radio's display.
- Channels 5 and 35 are used for emergency channels. Interference Eliminator Code will not operate on these two channels.

CTCSS Code Table									
Code	Hz	Code	Hz	Code	Hz	Code	Hz	Code	Hz
1	67	9	91.5	17	118.8	25	156.7	33	210.7
2	71.9	10	94.8	18	123	26	162.2	34	218.1
3	74.4	11	97.4	19	127.3	27	167.9	35	225.7
4	77	12	100	20	131.8	28	173.8	36	233.6
5	79.7	13	103.5	21	136.5	29	179.9	37	241.8
6	82.5	14	107.2	22	141.3	30	186.2	38	250.3
7	85.4	15	110.9	23	146.2	31	192.8		
8	88.5	16	114.8	24	151.4	32	203.5		

### Setting and Transmitting Call Tones

Your radio can transmit different call tones to other radios in your group so you can alert them that you want to talk. Your radio has 5 call tones.

*To set a call tone:*

- With the radio on, press MON<sup>ⓘ</sup> three times until the current call tone setting (0 - 5) flashes and CA displays.
- Press +<sup>ⓘ</sup> or −<sup>ⓘ</sup> to change and hear the call tone.
- Press PTT<sup>ⓘ</sup> to set the new call tone or MON<sup>ⓘ</sup> to continue set up. To transmit your call tone to other radios set to the same channel and Interference Eliminator Code as your radio, press J<sup>ⓘ</sup> .

**Note:** Setting the call to 0 disables the call tone feature.

**Q: Noise Filtering**

The **Q**: noise-filtering feature helps to ensure uninterrupted communication with other Motorola radios that have this feature. This feature also filters out unwanted transmissions from other radios. This is useful in places where there is heavy radio traffic, such as amusement parks or ski resorts.

**Note:** **Q**: noise filtering is not available when the radio is scanning.

*To turn **Q**: noise filtering on or off:*

- Press MON<sup>ⓘ</sup> until Y or −<sup>ⓘ</sup> displays.
- Press +<sup>ⓘ</sup> or −<sup>ⓘ</sup> until Y displays to turn noise filtering on, or until – displays to turn noise filtering off.
- Press MON<sup>ⓘ</sup> to confirm your selection.

*To transmit to a radio that has **Q**: noise filtering turned on:*

- Select the same channel and Interference Eliminator Code as the other radio.
- Press J<sup>ⓘ</sup> to send a call tone. This allows your voice to pass through the **Q**: noise filter on the receiving radio.
- Press PTT<sup>ⓘ</sup> and speak normally.

**Note:** If you skip step 2, the beginning of your message may not be heard on the receiving radio. For a 30-second period, starting after the last transmission, all transmissions received on the selected channel and code will pass through the **Q**: noise filter.

**Transmitting a Talk Confirmation Tone**

Your radio will transmit a unique tone when you finish transmitting. It is like saying “Roger” or “Over” to let others know you are finished talking.

- To turn Talk Confirmation off, press and hold +<sup>ⓘ</sup> while you turn your radio on. The Talk Confirmation call tone ☺<sup>ⓘ</sup> will not display.
- To turn Talk Confirmation back on, turn your radio off and then back on while pressing and holding +<sup>ⓘ</sup> . The Talk Confirmation call tone ☺<sup>ⓘ</sup> will be displayed.

## Special Features

**Keypad Lock**

To avoid accidentally changing your radio settings:

- Press MON<sup>ⓘ</sup> and hold until 🔒<sup>ⓘ</sup> displays.
- When in lock mode, you can turn the radio on and off, adjust the volume, receive, transmit, send a call tone, and monitor channels. All other functions are locked.

To unlock the radio, press and hold MON<sup>ⓘ</sup> until 🔒<sup>ⓘ</sup> is no longer displayed.

**Scanning Channels**

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 are 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 1). 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:*

- Briefly press the MON<sup>ⓘ</sup> key. The scan ↔<sup>ⓘ</sup> will appear in the display, and the radio will begin to scroll through the channel and code combinations.
- When the radio detects channel activity matching the channel and code combination, it stops scrolling and you can hear the transmission.
- To respond and talk to the person transmitting, press PTT<sup>ⓘ</sup> within five seconds after the end of the transmission.
- The radio will resume scrolling through the channels five seconds after the end of any received activity.
- To stop scanning, briefly press the MON<sup>ⓘ</sup> key.

*To start Advanced Scanning:*

- Set the Interference Eliminator Code to “zero” or OFF.
- Briefly press the MON<sup>ⓘ</sup> key. The scan ↔<sup>ⓘ</sup> will appear in the display, and the radio will begin to scroll through the channels. No Interference Eliminator Codes will filter what is heard.
- 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.
- To respond and talk to the person transmitting, press PTT<sup>ⓘ</sup> within five seconds of the end of the transmission. The radio will transmit using the newly detected Interference Eliminator Code.
- The radio will resume scrolling through the channels five seconds after the end of any received activity.
- To stop scanning, briefly press the MON<sup>ⓘ</sup> key.

**Scanning Notes:**

- If you press PTT<sup>ⓘ</sup> 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 MON<sup>ⓘ</sup> to stop scanning at any time.
- If the radio stops on an undesired transmission, you may immediately resume the scan by briefly pressing +<sup>ⓘ</sup> or −<sup>ⓘ</sup> .
- If the radio repeatedly stops on an undesired transmission, you may temporarily remove that channel from the scan list by pressing and holding +<sup>ⓘ</sup> or −<sup>ⓘ</sup> for three seconds. You may remove more than one channel in this way.
- 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 MON<sup>ⓘ</sup> .
- You cannot remove the home channel from the scan list.
- 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.

## Channels and Frequencies

Channel	Frequency (MHz)	Description	Channel	Frequency (MHz)	Description
1*	476.425	Duplex RX/Simplex	41*	476.4375	Duplex RX/Simplex
2*	476.450	Duplex RX/Simplex	42*	476.4625	Duplex RX/Simplex
3*	476.475	Duplex RX/Simplex	43*	476.4875	Duplex RX/Simplex
4*	476.500	Duplex RX/Simplex	44*	476.5125	Duplex RX/Simplex
5*	476.525	Emergency	45*	476.5375	Duplex RX/Simplex
6*	476.550	Duplex RX/Simplex	46*	476.5625	Duplex RX/Simplex
7*	476.575	Duplex RX/Simplex	47*	476.5875	Duplex RX/Simplex
8*	476.600	Duplex RX/Simplex	48*	476.6125	Duplex RX/Simplex
9	476.625	Simplex	49	476.6375	Simplex
10	476.650	Simplex	50	476.6625	Simplex
11	476.675	Simplex	51	476.6875	Simplex
12	476.700	Simplex	52	476.7125	Simplex
13	476.725	Simplex	53	476.7375	Simplex
14	476.750	Simplex	54	476.7625	Simplex
15	476.775	Simplex	55	476.7875	Simplex
16	476.800	Simplex	56	476.8125	Simplex
17	476.825	Simplex	57	476.8375	Simplex
18	476.850	Simplex	58	476.8625	Simplex
19	476.875	Simplex	59	476.8875	Simplex
20	476.900	Simplex	60	476.9125	Simplex
21	476.925	Simplex	61‡	-	No Use
22†	-	No Use	62‡	-	No Use
23†	-	No Use	63‡	-	No Use
24	477.000	Simplex	64	477.0125	Simplex
25	477.025	Simplex	65	477.0375	Simplex
26	477.050	Simplex	66	477.0625	Simplex
27	477.075	Simplex	67	477.0875	Simplex
28	477.100	Simplex	68	477.1125	Simplex
29	477.125	Simplex	69	477.1375	Simplex
30	477.150	Simplex	70	477.1625	Simplex
31*	477.175	Duplex TX/Simplex	71*	477.1875	Duplex TX/Simplex
32*	477.200	Duplex TX/Simplex	72*	477.2125	Duplex TX/Simplex
33*	477.225	Duplex TX/Simplex	73*	477.2375	Duplex TX/Simplex
34*	477.250	Duplex TX/Simplex	74*	477.2625	Duplex TX/Simplex
35*	477.275	Emergency	75*	477.2875	Duplex TX/Simplex
36*	477.300	Duplex TX/Simplex	76*	477.3125	Duplex TX/Simplex
37*	477.325	Duplex TX/Simplex	77*	477.3375	Duplex TX/Simplex
38*	477.350	Duplex TX/Simplex	78*	477.3625	Duplex TX/Simplex
39	477.375	Simplex	79	477.3875	Simplex
40	477.400	Simplex	80	477.4125	Simplex

You can find more information about channels and frequencies by visiting the website http://www.acma.gov.au/WEB/STANDARD//pc=PC\_1265

**Channel Frequency Table**
**Radio communications (Citizen Band Radio Stations) Class Licence 2002**

No licence is required to own or operate this radio in Australia and New Zealand. The Radio communications (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.

\* 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 80 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.

## Patent and Copyright Information

Manufactured, distributed or sold by Giant Telecom Ltd., official licensee for this product. MOTOROLA, MOTOROLA SOLUTIONS and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners. ©2013 Motorola Solutions, Inc. All rights reserved.

## Warranty

**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 12 months 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:

- 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;
- negligence on your part or misuse by you of the product;
- an uncontrollable external cause which results in the product not functioning including but not limited to power failure, lightning or over voltage; and
- modification to the product or services carried out on the production 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.

**Contact details for Oricom support and warranty claims in Australia**
Oricom International Pty Ltd
Locked Bag 658
South Windsor, NSW 2756 Australia

Email: support@oricom.com.au
Phone: 1300 889 785 or (02) 4574 8888
(Monday to Friday 8am to 6pm AEST)
Web: www.oricom.com.au
Fax: (02) 4574 8898

**Contact details for Oricom support and warranty claims in New Zealand**
Email: support@oricom.co.nz
Phone: 0800 674 266
(Monday to Friday 10am to 8pm NZST)
Web: www.oricom.co.nz