Oricom®

Operating Instructions

PMR755 40 Channel UHF 2 Way
Citizen Band Radio

Oricom.

Table of contents

N13134
Z765

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

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Safety Information and Warnings

⚠️ WARNING

Information on Safe Operation

Read This Information Before Using Your Oricom 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.

Batteries

All batteries can cause property damage and/or bodily injury such as burns if conductive material such as jewelry, 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.

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⚠️ 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.

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.

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⚠ WARNING

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
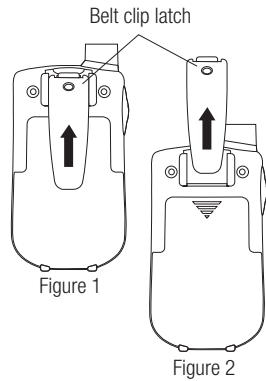
Never use your radio outdoors during a thunderstorm.

Keep the radio out of reach of babies and young children.

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Installation

Removing the Belt Clip

Belt clip latch

Pull the belt clip latch away from the radio.

While pulling the belt clip latch, push up the belt clip as shown in Fig. 1.

Installing the Belt clip
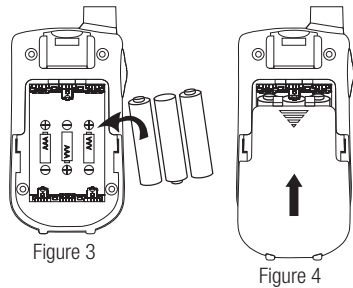
Slide the belt clip into the slot as shown in Fig. 2.

A "click" indicates the belt clip is locked into position.

Figure 1

Figure 2

Installing the Batteries

Slide down the battery compartment cover.

Insert the 3xAAA batteries (not supplied). Position the batteries according to the polarity marking on the battery compartment. See Fig.3

Replace the battery cover. See Fig. 4.

Figure 3

Figure 4

Notes:

- *Use only same type and make of batteries in the unit.*
- *The radios have a built-in Power Saver mode (PS) for maximum battery life, but when not in use, turn the units OFF to save battery power*
- *Remove the batteries if the units will not be used for a long period of time.*

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 as follows;

When battery voltage is low the empty battery symbol will appear and continue to blink.

The battery icon will continue to blink until it totally drains the battery voltage.

Power Saving Mode

Your radio has special circuitry designed to extend the life of your battery. When the unit is not used for 4 seconds, it will automatically switch low power mode. The Power Saving feature does not affect the Radio's ability to receive transmissions. When a signal is detected, it automatically returns to full power mode.

Transmitting range

The talk range depends on the environment and terrain. The radio can reach (up to about 3km) 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.
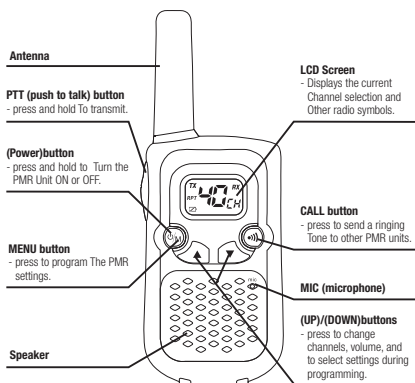

Optimal Range
Outdoors
Flat, open areas

Medium Range
Outdoors
Buildings or trees
Also near residential
buildings

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

Oricom PMR755 2-Way CB Radio

Antenna

PTT (push to talk) button
- press and hold To transmit.

(Power)button
- press and hold to Turn the PMR Unit ON or OFF.

MENU button
- press to program The PMR settings.

Speaker

LCD Screen
- Displays the current Channel selection and Other radio symbols.

CALL button
- press to send a ringing Tone to other PMR units.

MIC (microphone)

(UP)/(DOWN)buttons
- press to change channels, volume, and to select settings during programming.

LCD Screen

BB Channel Number. Changes from 1 to 40 as selected by the user.

⊏⊐⊦ Displays when battery level goes low.

CH Displayed in channel selection mode.

LE Displayed in volume selection mode.

TX Displayed when transmitting a signal.

RX Displayed when receiving a signal.

Operation

Turning the Unit ON/OFF

To Turn ON;

a. Press and hold the ⏻/M (Power) button. A "beep" sound will be heard. The LCD screen will display the current channel.

To switch OFF;

b. Press and hold the ⏻/M (Power) button. A "beep" sound will be heard and the LCD screen will turn blank.

Adjusting the Speaker volume

There are 8 volume levels, the current speaker volume level is displayed on the LCD screen. To adjust the speaker volume level, press the (UP) button to increase, or press the (DOWN) button to decrease. The LCD screen will display the speaker volume icon bars ascending or descending respectively.

Changing Channels

The PMR755 has 40 available channels, to communicate with other radio's, you must have your radio tuned to the same channel.

a. Press the ⏻/M (Menu) button, the channel icon "1 " on the LCD screen will start blinking.

b. While the Channel icon is blinking, press the (UP) or (DOWN) button to select the desired channel. The channel changes from 1 to 8, or vice versa.

c. Press the ⏻/M (Menu) button to confirm your setting the OFF icon will blink for 2-3 seconds and then return to the standby mode.

Transmitting and Receiving

⚠ **The PMR755** transmission is simplex "one way-at-a-time." While you are speaking, you can not receive a transmission.

⚠ **The PMR755** is an open-license band. Always identify yourself when transmitting on the same channel.

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

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) 5 cm 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.

Important:

In order for other people to receive your transmission, they must also be on the same channel that you are currently using. Refer to the "Changing Channel" section for more information.

When the PTT and/or CALL buttons are continuously pressed, your Radio cannot receive any transmissions.

Call-Ring tone

You can use the CALL button to send a tone to other users on the same channel. To activate this feature;

a. With the PMR in normal mode, press and release the CALL button. The unit will transmit a 2-second page tone to the other unit/s set with the same channel within transmitting range .

Roger Beep

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

The Roger Beep 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.

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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.

You can see a list of repeater sites by following this link to our website (note this list is always being updated)

http://www.oricom.com.au/support/repeater or visit
http://www.tropinet.com/uhf-repeaters/

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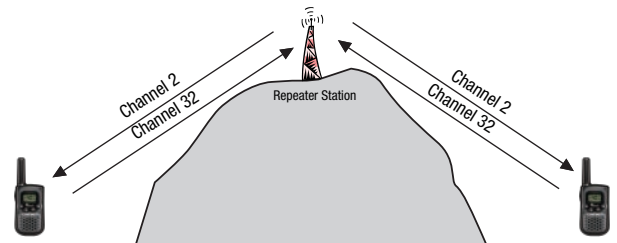
So, if you are in the range of a local repeater which transmits on channel 2, after setting your radio to allow access of the repeater on that channel, you will select channel 2 as normal, but during transmit operation your radio will automatically transmit to the repeater on channel 32.

Turning on/off Duplex on channels

a. Select the required channel to suit the repeater station you wish to access (Channels 1 – 8 only)
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

* Channel 5 is emergency channel only

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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 PMR755 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	Frequency (MHz)	Usage
1	476.425	Duplex RX/Simplex
2	476.450	Duplex RX/Simplex
3	476.475	Duplex RX/Simplex
4	476.500	Duplex RX/Simplex
5	476.525	Emergency
6	476.550	Duplex RX/Simplex
7	476.575	Duplex RX/Simplex
8	476.600	Duplex RX/Simplex
9	476.625	Simplex

10	476.650	Simplex
11	476.675	Simplex (Calling channel)
12	476.700	Simplex
13	476.725	Simplex
14	476.750	Simplex
15	476.775	Simplex
16	476.800	Simplex
17	476.825	Simplex
18	476.850	Simplex
19	476.875	Simplex
20	476.900	Simplex
21	476.925	Simplex
22	476.950	No Use
23	476.975	No Use
24	477.000	Simplex
25	477.025	Simplex
26	477.050	Simplex
27	477.075	Simplex
28	477.100	Simplex
29	477.125	Simplex
30	477.150	Simplex
31	477.175	Duplex TX/Simplex
32	477.200	Duplex TX/Simplex
33	477.225	Duplex TX/Simplex
34	477.250	Duplex TX/Simplex
35	477.275	Emergency

36	477.300	Duplex TX/Simplex
37	477.325	Duplex TX/Simplex
38	477.350	Duplex TX/Simplex
39	477.375	Simplex
40	477.400	Simplex

UHF Repeater operation is used when long distance communication is required, unless specifically needed use of the repeater channels is to be avoided. Note Channels 5 and 35 are emergency channels. Channel 11 is a calling channel for establishing communication and Channel 40 is the customary road vehicle channel. Channels 22 and 23 are for Telemetry and Telecommand use, voice communications are not allowed on these channels by law.

Oricom makes no other warranties or conditions, express or implied, including as to merchantability 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 in no way affects your statutory warranty rights under the Trade Practices Act 1974 or any other similar legislation. This Warranty does not extend to any product from which the serial number has been removed, was purchased outside of Australia or that has been damaged or rendered defective:

1. as a result of lightning, over voltage, accident, misuse, abuse or other external causes;

2. the operation outside the normal use of the product;

3. by the use of parts not manufactured or sold by Oricom; or

4. by modification or service by anyone other than:

    (a) Oricom; or (b) an Oricom authorised service provider.

The Warranty Period will be 36 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 or repair 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.

Batteries (if supplied) with this product are covered under this warranty for a period of 90 days. Oricom products 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 replace and where possible

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repair the defective product. 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, at its discretion, may 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 is not 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 Trade Practices Act 1974 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.

Customer Support

If you suspect your product is not functioning to specification, before making a warranty claim please use the following resources.

- Troubleshooting Guide in this user guide
- Online Frequently Asked Questions - www.oricom.com.au
- Email our customer support team on support@oricom.com.au
- Contact Oricom Customer Support team on 1300 889 785 or 02 4574 8888 (Monday to Friday 9am to 5pm EST)

If service is required during the warranty period, please ensure you retain your purchase receipt. Attach to the back page of this user guide for safe keeping.

Visit www.oricom.com.au to register your product online

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Customer Support

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