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**MX500**

5 WATT VHF MARINE RADIO

INSTRUCTION MANUAL

- IP67(1 Meter Depth for 30 Minutes)
- Float and Flash



#### Need Help?

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

Australia (02) 4574 8888

www.oricom.com.au

Mon-Fri 8am – 6pm AEST

New Zealand 0800 67 42 66

www.oricom.co.nz

Mon-Fri 10am – 8pm NZST

Thank you for purchasing this Oricom 5watt VHF Marine Radio.

Please ensure you read this user guide carefully before using the MX500 Radio to ensure you familiarise yourself with the functions and operation.

PLEASE RETAIN THE USER GUIDE FOR FUTURE REFERENCE.

NEVER connect the radio to the AC power adaptor when wet as this may pose a fire hazard or result in an electric shock.

ONLY connect the radio to the power supply and battery provided with this product.

KEEP the radio at least 1meter away from your vessel's magnetic navigation compass.

DO NOT use or place the radio in direct sunlight or in areas with temperatures below -15°C or above +55°C

NEVER modify your radio in any way as this will void warranty and could cause damage to your radio.

ALWAYS charge your radio at normal room temperature

ALWAYS turn off your radio when in any area with a potentially explosive atmosphere

#### 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.

#### Lithium-ion Battery Pack Warning

- This equipment contains a Lithium-ion Battery pack.
- Do not short circuit the Battery pack.
- Only use the original Oricom AC adaptor supplied with this product to charge the battery pack.
- Remove battery pack when 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.
- The Lithium-ion Battery pack may explode if disposed of in a fire.

Exercise extreme care when handling battery in order not to short the battery with conducting materials.

The battery or conduction material may overheat explode and or cause burns.

• If the battery 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 to water or other liquids.
- If you believe the battery is damaged, remove product from the charger and stop using the product. Contact Oricom for assistance.
- Never use damaged batteries as they may explode.

#### EU Regulatory Conformance

As certified by the qualified laboratory, the product is in compliance with the essential requirements and other relevant provisions of the Directive 1999/5/EC. Please note that the above information is applicable to EU countries only.

#### OPERATING RULES

##### Priorities

- Read all rules and regulations relating to priorities and keep an up-to-date copy. Safety and distress calls take priority over all other calls.
- You must always monitor Channel 16 when you are not operating on another channel.
- False or fraudulent distress calls are prohibited by law.

##### Privacy

- Information overheard but not intended for you cannot be used in any way by law.
- Offensive or disrespectful language is prohibited.

#### RADIO LICENCES

##### Ship Station License

When your craft is equipped with a VHF FM radio, you must have a current radio station licence before using the radio. It is unlawful to operate a ship station which is not licensed. Inquire through your dealer or the appropriate government agency for a Ship-Radiotelephone license. This license includes the call sign which is your craft's identification for radio purposes.

##### Operators License

Under normal circumstances this radio should only be operated by a qualified person

More information regarding qualified persons can be found at

[www.acma.gov.au/marine-radio-qualifications](http://www.acma.gov.au/marine-radio-qualifications).

A restricted Radiotelephone Operator Permit is the license most often held by small vessel radio operators when a radio is not required for safety purposes. The restricted Radiotelephone Operator Permit must be posted near the radio or be kept with the operator. Only a licensed radio operator may operate a radio. However, non-licensed individuals may talk over a radio if a licensed operator starts, supervises, ends the call and makes the necessary log entries.

A current copy of the applicable government rules and regulations is only required to be on hand for vessels in which a radio telephone is compulsory. However, even if you are not required to have these on hand it is your responsibility to be thoroughly acquainted with all pertinent rules and regulations.

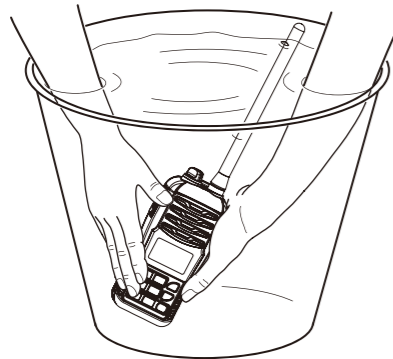
#### RANGE

The range of VHF transmissions depends on antenna height, transmitter power and the terrain over which the signals pass. For a 5 watt handheld radio, ship to ship communications up to 5 nautical miles should be possible. Ship to shore ranges will often be greater due to the increased height of the shore antenna.

## ■ Recommendation

Clean the transceiver thoroughly with fresh water after exposure to saltwater, and dry it before operating. Otherwise, the transceiver's key, switches and controllers may become unusable due to salt crystallization.

NOTE:DO NOT submerge the transceiver in water if there is any reason to suspect the waterproof protection may not be effective. for example, in cases where the battery cover or DC Jack cap rubber seal is damaged,the transceiver/battery cover/DC Jack cap is cracked or broken , or the transceiver has been dropped, or when the battery cover, antenna or DC Jack cap are detached from the transceiver.



## ■ Features

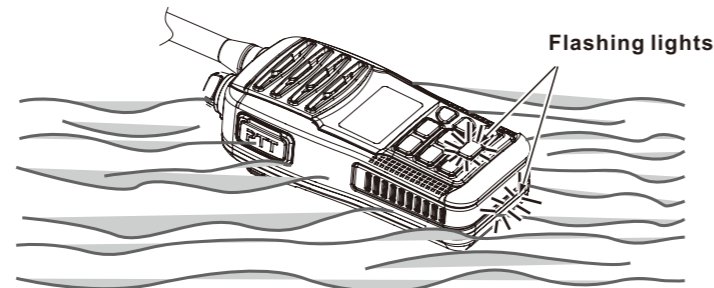
### ◆ Floats on Water

The radio floats in fresh or salt water when the supplied accessories are attached.

When a third-party battery pack, strap, antenna, etc. is used , it may sink.

### ◆ Floats and Flashes

An LED sends out intermittent light from a transparent section on the bottom of the radios, while floating in the water.



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## SETUP

### ■ Setup

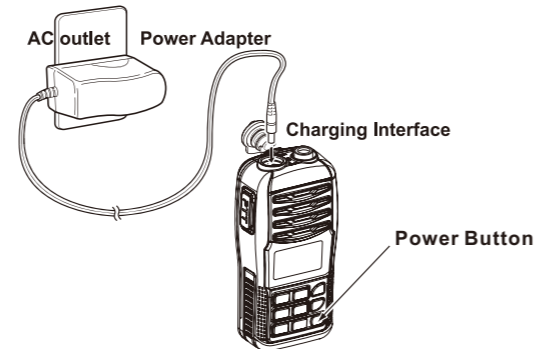
#### ◆ Supplied Accessories

Carefully unpack your MX500 Radio. We recommend that you identify items listed in the following table before discarding the packing materials. If any item is missing or has been damaged, please contact your place of purchase.

Items	Qty
Transceiver	1
Battery Pack	1
AC Adaptor	1
Belt Clip	1
Handstrap	1
Instruction Manual	1
Antenna	1

#### ◆ Charging the Battery Pack

1. Connect the adaptor to AC Power.
2. Rotate the connector cap on the top of the transceiver to expose the charging socket. Plug the AC Adaptor plug into the socket on the top of the transceiver. LCD appears "CHG" and " [ ] " to indicate charging.



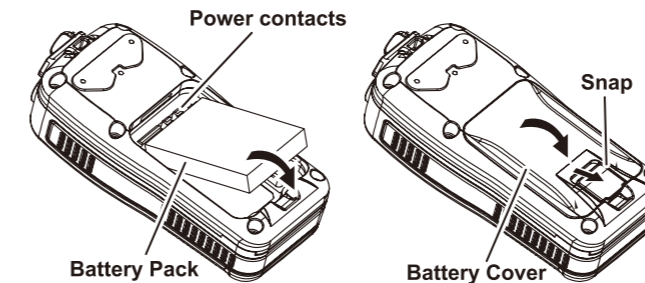
3. If battery charging is full, LCD appears "FL", you should remove the adaptor.
  - NOTE: If you have not inserted the battery pack, the LCD will show "Er".
  - WARNING: The AC adaptor is not waterproof.
4. When charging is complete, remove the plug from the radio and replace the cover ensuring it is fitted correctly.

Accessories/spare parts can be purchased directly from Oricom. Visit [oricom.com.au](http://oricom.com.au) or call 1300 889 785.

#### ◆ Battery Pack

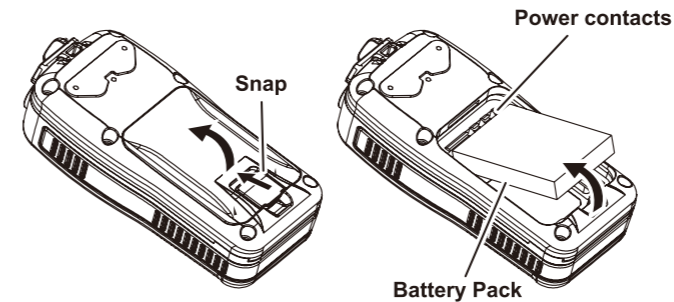
To insert the battery pack:

Place the battery into the transceiver so it fits flat, and then securely attach the battery cover, as shown. Push the cover until the latch returns to the locked position.



To remove the battery pack

Slide the latch and then lift the battery cover to remove it, then remove the battery pack, as shown.



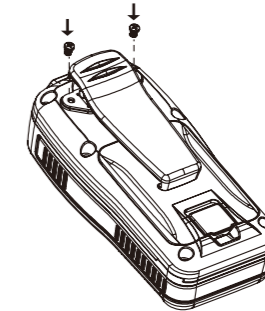
#### ◆ Flexible Antenna

1. Connect the supplied flexible antenna to the antenna connector, rotate it clockwise until it is tight.
2. To remove it, rotate it counter-clockwise.



#### ◆ Belt Clip

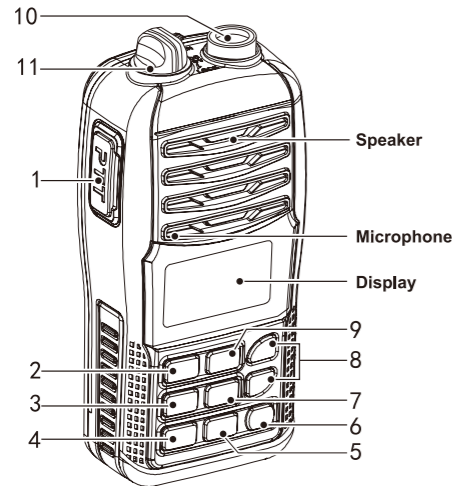
Attach the belt clip to, or detach the belt clip from the transceiver.



- WARNING: The battery pack and antenna must be installed correctly to prevent water ingress.
- IMPORTANT: Prior to using the transceiver for the first time, the battery pack must be fully charged for optimum life and operation. To avoid damage to the transceiver, turn the power OFF while charging.

## CONTROLS and INDICATORS

### ■ Controls and Indicators



#### 1. PTT

- Hold down to transmit; release to receive.

#### 2. CH 16/Call CH

- Push to select channel 16.
- Hold for 1 second to select the call channel.(factory default: channel 9 )
- When the call channel is selected, hold for 3 seconds to enter the call channel programming mode.
- While in the set mode, push to return to the normal operation mode.

#### 3. FAV/TAG

- PUSH to sequentially select to the favourite channels, while

ignoring untagged channel, in a channel group.

- Press and hold and turn radio ON to clear or set all TAG channels in the selected channel group.

#### 4. SCAN/DUAL

- Push to start or stop a normal or priority scan.
- Hold for 1 second to enter the Dual/Tri-watch mode.
- Push to exit the watch mode
- Hold this key and HI/LO key for 1 second, to activate the AquaQuake Function.

#### 5. [HI/LO]/[ ]

- Push to select the high or low output power.
- Hold for 1 second to turn the Lock function ON or OFF.

#### 6. POWER[ ]

- Hold to turn power ON or OFF.

#### 7. VOL./SQL/MONI

- Push to enter the volume adjustment mode or the squelch adjustment mode.
- Press and hold for 1 second to active the Monitor function.
- While hold this key , hold [ ] key to turn ON the power and enter the set mode.
- While in the Set mode, push to select an item,
- While holding this key , push[▼]to turn ON the Volume Mute function . Do the same steps again to turn OFF the function.
- While hold down this key, push[▲]to turn ON the Volume Loud function. Do the same steps again to turn OFF the function.

#### 8. [▲]/[▼]UP/DOWN

- Push to select an operation channel.

- While in the Set mode, push to select the setting or value of an item.
- Push to check TAG channels or change scanning direction during a scan.

#### 9. [CH]

- Hold for 1 second, one or more times, to select a channel group from USA, International, and Canada.
- Push to return to the previous channel before selecting Channel 16 or the Calling channel.

#### 10. ANTENNA CONNECTOR

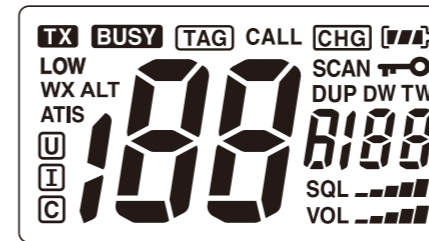
- Connect the supplied antenna here.

#### 11. CHARGING SOCKET

- Connect the AC adaptor here.

**NOTE: Ensure the cap for the DC charging connector is affixed correctly to avoid water ingress.**

### ■ Display



Icon	Description
<b>TX</b>	Transmit Indicator , Appears while transmitting
<b>LOW</b>	Low Power indicator 1) "LOW" appears when low power is selected 2) "LOW" blinks when switching forced low power mode because of a high temperature arrow or low voltage
<b>ATIS</b>	Appears while working in ATIS Channel
<b>U</b>	Appears when U.S.A
<b>I</b>	Appears when international
<b>C</b>	Appears when Canadian channel group is selected
<b>BUSY</b>	Appears when receiving a signal or when the squelch opens Blinks while monitoring
<b>TAG</b>	Appears when a TAG channel is selected
<b>CALL</b>	Appears when the call channel is selected
<b>CHG</b>	Appears when the radio is charging
<b>BATTERY</b>	Battery Indicator, remaining battery power
<b>SCAN</b>	Blinks while scanning
<b>LOCK</b>	Appears while the lock function is activated
<b>DUP</b>	Appears when a duplex channel is selected
<b>DW</b>	Appears when dual watch
<b>TW</b>	Appears when tri-band watch
<b>100</b>	Channel number readout Indicates the selected operating channel number In set mode, indicates the selected condition
<b>88</b>	In dual watch/tri-watch,appears CH16 during priority scan Appears while volume selecting Appears while SQL selecting Appears while mode selecting
<b>SQL</b>	Show the squelch level
<b>VOL</b>	Show the volume level Blinks when the volume mute is activated

## BASIC OPERATION

### ■ Turn ON/OFF

1. Press [  ] for 1 second to turn ON.
2. Press again [  ] for 1 second to turn OFF.

### Adjusting the Volume Level

The volume level can be adjusted using [VOL/SQL] and [▼] or [▲].

1. Push [VOL/SQL] once to enter the volume adjustment mode. Then press [▼] or [▲] to adjust the volume level.
  - The "VOL" icon starts blinking.
  - The transceiver has 31 volume levels and OFF.
  - When no key operation is performed for 5 seconds, then transceiver returns to the normal mode.
2. Push [VOL/SQL] twice to exit the volume adjustment mode.

### ■ Adjusting the Squelch Level

The squelch level can be adjusted using [VOL/SQL] and [▼] or [▲] . in the order to properly receive signals. As well as for the scan to effectively function, the squelch must be adjusted to the proper level.

1. Push [VOL/SQL] twice to enter the squelch adjustment mode, then push [▼] or [▲] to adjust the squelch level.
  - The "SQL" icon starts blinking.
  - The radio has 11 squelch levels: OP is completely open; 10 is maximum squelch; 1 is minimum squelch.
  - When no key operation is performed for 5 seconds, the transceiver returns to the normal mode.
2. Push [VOL/SQL] again to exit the squelch adjustment mode.

### ■ Receiving and Transmitting

#### ◆ Receiving

1. Set the volume levels by pushing [VOL/SQL] , [▼] or [▲].
2. Set the squelch levels by [▼] or [▲].
  - when receiving a signal, " **BUSY** " appears and audio is heard from the speaker.
  - The conserve battery power, the transceiver's power save function automatically activates when no signal is received for 5 seconds.

#### ◆ Transmitting

1. Push [Hi/Lo] to select output power.
  - "LOW" appears when low power is selected.
  - Choose low power for short range communications; choose high power for longer distance communications.
  - Some channels are for only low power communication.
2. Hold down [PTT] to transmit, then speak into the microphone.
  - "TX" appears.
  - Channel 70 cannot be used for transmission
3. Release [PTT] to receive.

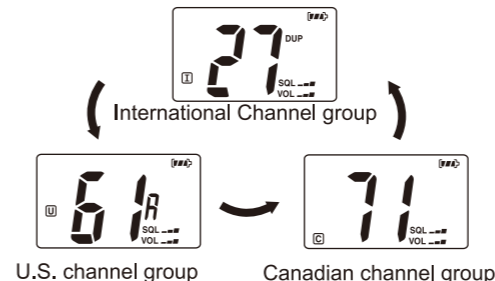
#### NOTE:

- Transmitting without an antenna can damage the transceiver.
- To maximize the readability of your transmitted signal, pause for a second after pushing [ PTT ] hold the microphone 5-10cm from your mouth and speak into the microphone at a normal voice level.

### ■ Channel Group Selective

This radio is pre-programmed with USA, International, Canadian channels. The default setting for use in Australia is International.

1. Push [CH] to select a regular channel.
2. Hold down [CH] for 1 second, one or more times, to select the desired channel group.
  - The selectable channel groups are different, depending on the version.
3. Push [▲] or [▼] to select a channel.
  - "A" appears when a simplex channel is selected.

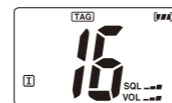


### ■ Channel Selection

#### ◆ Channel 16

Channel 16 is the distress and safety channel. It is used for establishing initial contact with a station and for emergency communications. Channel 16 is monitored during both dual watch and Tri-watch while standing by, you must monitor Channel 16.

1. Push [16/C] momentarily to select Channel 16.
2. Push [CH] to return to the channel used before Channel 16, or push [▼] or [▲] to select a channel.



#### ◆ Call Channel

Each regular channel group has separate leisure-use call channels. The call channel is monitored during tri-watch. The call channels can be programmed and are used to store your most frequently used channel in each channel group for quick recall.

1. Push and hold [16/c] for 1.5 seconds to select the call channel of the selected channel group. "CALL" and call channel number appears.
2. Push [CH] to return to the channel used before call channel, or push [▼] or [▲] to select a channel.



#### ◆ Weather Channels

Weather channels may not be available in all countries (Australia does not use the weather channels please check channel 67 for weather reports)

This transceiver has 10 pre-programmed weather channels. They are used for monitoring broadcasts.

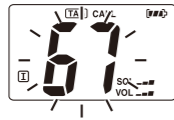
1. Push [CH] to select weather channel or normal channel.
  - Appears "WX" when weather channel selected.
  - Appears "WX ALT" when the weather alert function is ON.
2. Push [▼] or [▲] to select channel.



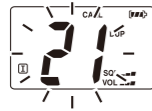
#### ◆ Call Channel Programming

Call channel is used to access Channel 16 (default is channel 67). You can program the call channel with your most frequently used channel in each channel group for quick recall.

1. Push [CH] to select a desired channel group to be programmed
2. Push [16/C] for 1sec.to select a call channel.
3. Push [16/C] for 3sec. till you hear a "BEEP" tone and "DUDU" tone to enter call channel programming mode.
  - Channel number flashes.



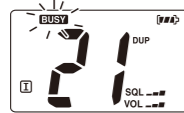
4. Push [▼] or [▲] to select desired call channel
5. Push [16/C] to confirm and save it, Push [CH] to cancel and exit.



## ■ Monitor Function

The monitor function opens the squelch.

- Push [MONI] to activate monitor function.
- "BUSY" will flash and sound while monitor function actives.



## ■ Volume Loud Function

The volume loud function temporarily maximizes the volume loud level, it has no effect when the volume level is 31.

1. Push [VOL/SQL] and [▲] to turn ON the function
2. Push [VOL/SQL] and [▲] to turn it OFF.

## ■ Volume Mute Function

The volume mute function can be activated temporarily.

1. Push [VOL/SQL] and [▲] to active .
  - The audio is muted
  - The volume level indicator will start flashing.
2. Push [VOL/SQL] and [▲] to turn the volume mute function off.

## ■ Automatic Backlight

This function is convenient for night time operation. The automatic backlighting can be activated in set mode.

- Push any key except for [PTT] to turn the backlighting ON.
- The backlighting is automatically turned OFF after 5 seconds.of in-activity.

## ■ Lock Function

This function electronically locks all keys (except for [PTT][▼][▲][VOL/SQL][])to prevent accidental changing of the channel and function access.

- Push and hold[]for 1 seconds.to turn the function ON and OFF.



## ■ Vibration Water Draining Function

This transceiver uses a new technology to clear water away from the speaker grill: Vibration. Vibration helps drain water away from the speaker housing (water that might otherwise muffle the sound coming from the speaker).

This transceiver emits a vibrating beep when this function is activated.

- Push and hold [SCAN]and [HI/LO]
- A low beep tone sounds for 9 seconds to drain water, regardless of volume level setting
- The transceiver does not perform key operations while the Vibration function is activated.

# SCAN OPERATION

## ■ Scan Types

Scanning is an efficient way to locate signals quickly over a wide frequency range. The transceiver has priority scan and normal scan.

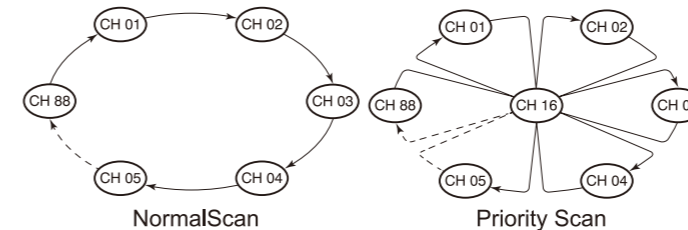
In addition, the weather alert and auto scan functions are available for stand-by convenience. These functions can be activated simultaneously, depending on the setting in set mode.

### Normal Scan

It searches through all TAG channels in sequence.However, unlike priority scan, Channel 16 is not checked unless channel 16 is set as a TAG channel.

### Priority Scan

A priority scan sequentially searches through all TAG channels while monitoring Channel 16. when a signal is detected on Channel16, the scan pauses until the signal disappears; when a signal is detected on a channel other than Channel 16, the scan switches to Dualwatch, until the signal disappears.



## ■ Setting TAG Channels

For more efficient scanning, set the desired channels as TAG channels or clear the TAG setting from unwanted channels. Channels that are not tagged will be skipped during scanning.

### ◆ Setting (or clearing) a TAG channel

1. Push [CH] to select desired channel group.
2. Push [▼] or [▲] to select the desired channels to be set as a TAG Channel.
3. Push and hold "TAG" for 1 second. to set the displayed channel as a TAG Channel. "TAG" appears in the function display.
4. To cancel the TAG channel setting, push and hold "TAG" for 1sec.
  - "TAG" disappears.

### ◆ Setting (or clearing) all tagged channels

1. While pushing and holding [TAG], turn power [ ] ON to clear all TAG channels in the selected channel group.
2. Repeat above procedure to set all channels as TAG channels.

## ■ Scanning

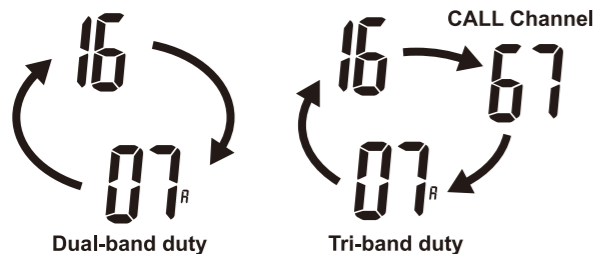
Set the priority scan function, scan resume timer and auto scan function in the set mode.

1. Push [SCAN] to start normal scan or priority scan.
  - "SCAN" Blinks.
  - "16" appears on the sub channel readout during a priority scan.
  - When a signal is received, the scan pauses until the signal disappears or resumes after pausing 5 seconds, depending on the set mode setting.
  - Push [▼]or[▲] to sequentially select TAG channels, change the scanning direction or manually resume the scan.
2. Push [SCAN]to stop the scan, or push [PTT],[16/C], [CH]or[FAV]also can stop the scan.

## DUALWATCH/TRI-WATCH

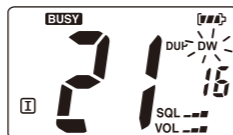
### ■ Description

Dualwatch monitors Channel 16 while you are receiving on another channel; Tri-watch monitors Channel 16 and the call channel while receiving another channel. Dualwatch/Tri-watch is convenient for monitoring channel 16 when you are operating on another channel.



### ■ Operation

- Push [SCAN/DUAL] for 1 second to start dual watch or tri-watch.
  - "DW" blinks during dual watch;" TW" blinks during Tri-watch.
  - A beep tone sounds when a signal is received on Channel 16.
  - Tri-watch switches to dualwatch when receiving a signal on the call channel.
- Push [SCAN/DUAL] to cancel dualwatch/tri-watch.



Dual-band duty



Tri-band duty

## SET MODE

### ■ Set Mode Programming

The set mode is used to channel the settings of the transceiver's function: beep tone function, priority scan function, scan resume timer, auto scan function, dual/tri-watch function, monitor key action, automatic backlighting, LCD contrast setting and power save function.

#### ◆ Set Mode Operation

- Turn OFF the transceiver.
- While holding down [VOL/SQL], turn ON the power to enter the set mode
- Release [VOL/SQL], appears " Bp "
- Push [VOL/SQL] to select the function.
- Push [▲][▼] to select change the setting.
- To exit the set mode, push [16/C]

No.	Show	Set Project	Set parameter options	The default value
1	bP	Beep	of /on	on
2	AL	Weather Warning	of /on	of
3	Pr	Priority Scan	of /on	of
4	St	Scan Resume Timer	of /on	of
5	AS	Automatic Scanning	of /on	of
6	dt	Dual-band / Tri-band Duty	d-/t-	d-
7	Sq	Monitor key Functions	Pu / Ho	Pu
8	bL	Automatic Backlight	of /on	on
9	LC	LCD Contrast	Hi / Lo	Hi
10	PS	Automatic Power	of / on	on

### ■ Set Mode Items

#### ◆ Beep Tone Function

Turn the key touch beep sound ON or OFF.

#### ◆ Weather Alert

Weather channels may not be available in all countries (Australia does not use the weather channels please check channel 67 for weather reports).

When there is significant weather information, the U.S. NOAA broadcast stations will transmit an alarm weather. When the weather alert function is turned on, walkie-talkies will sound the alarm at the same time "WXALT" symbol flashes. During the scan, the current weather channel in use will be scanned.

- With this function enabled, when you select the Weather Channel, the screen displays "WX ALT" symbol.

#### ◆ Priority Scan Function

The transceiver has 2 scan types—normal (OFF) and priority (ON) scan. A normal scan searches all TAG channels in the selected channel group. A priority scan sequentially searches all TAG channels while monitoring Channel 16.

#### ◆ Scan Resume Time

The scan resume timer can be set as a pause (OFF) or timer scan (ON).

- OFF:** when a signal is detected, the scan pauses on the channel until the signal disappears, and then resumes.
- ON:** When a signal is detected, the scan pauses on the channel for 5 seconds. and then resumes.



### ◆ Auto Scan Function

The auto scan function automatically starts a normal or priority scan when no signal is received, and no operation is performed for 30 seconds.

### ◆ Dual/Tri-watch Function

Set the watch type to Dualwatch or Tri-watch.

### ◆ Monitor Key Action

The monitor key temporarily opens the squelch. This item sets the key action.

- Pu(PUSH): The monitor function is activated by holding down[MONI]. The squelch **remains open** while holding down the key.
- Ho(Hold): The monitor function is activated by holding down [MONI] for 1 second, the squelch stays open until any key is pushed.

### ◆ Automatic Backlighting

This function is convenient for night-time operation. The backlight can be selected from ON and OFF.

- The backlighting is automatically turned OFF after 5 seconds. of inactivity.

### ◆ LCD Contrast Setting

Set the LCD contrast level to high contrast or Low contrast.

### ◆ Power Save Function

The power save function reduces current drain by turning OFF the receiver circuit for preset intervals.

- **OFF:** Function is turned OFF
- **ON:** Function is turned ON and will be activated when no signal is received, and no operation is preformed for 5 seconds.

## ■ VHF Marine Channel List

Channel number					Frequency(MHz)					Channel number					Frequency(MHz)					Channel number					Frequency(MHz)					
USA	INT	CAN	Transmit	Receive	USA	INT	CAN	Transmit	Receive	USA	INT	CAN	Transmit	Receive	USA	INT	CAN	Transmit	Receive	USA	INT	CAN	Transmit	Receive	USA	INT	CAN	Transmit	Receive	
	01	01	156.050	160.650		21	21	157.050	161.650	68	68	68	156.425	156.425	86A				157.325	157.325										
01A			156.050	156.050	21A		21A	157.050	157.050	69	69	69	156.475	156.475	87	87	87	157.375	161.975											
	02	02	156.100	160.700			21b	RX only	161.650	70	70	70	RX only	156.525	87A	87A	87A	157.375	157.375											
	03	03	156.150	160.750		22		157.100	161.700	71	71	71	156.575	156.575	88	88	88	157.425	162.025											
03A			156.150	156.150	22A		22A	157.100	157.100	72	72	72	156.625	156.625	88A	88A	88A	157.425	157.425											
	04		156.200	160.800		23	23	157.150	161.750	73	73	73	156.675	156.675																
		04A	156.200	156.200	23A			157.150	157.150	74	74	74	156.725	156.725																
	05		156.250	160.850	24	24	24	157.200	161.800	75*1	75*1	75*1	156.775	156.775																
05A		05A	156.250	156.250	25	25	25	157.250	161.850	76*1	76*1	76*1	156.825	156.825																
06	06	06	156.300	156.300			25b	RX only	161.850	77*1	77	77*1	156.875	156.875																
	07		156.350	160.950	26	26	26	157.300	161.900		78		156.925	161.525																
07A		07A	156.350	156.350	27	27	27	157.350	161.950	78A		78A	156.925	156.925																
08	08	08	156.400	156.400	28	28	28	157.400	162.000		79		156.975	161.575																
09	09	09	156.450	156.450			28b	RX only	162.000	79A		79A	156.975	156.975																
10	10	10	156.500	156.500		60	60	156.025	160.625		80		157.025	161.625																
11	11	11	156.550	156.550		61		156.075	160.675	80A		80A	157.025	157.025																
12	12	12	156.600	156.600	61A		61A	156.075	156.075		81		157.075	161.675																
13*1	13	13*1	156.650	156.650		62		156.125	160.725	81A		81A	157.075	157.075	<b>Weather Channel</b>															
14	14	14	156.700	156.700			62A	156.125	156.125		82		157.125	161.725																
15*1	15*1	15*1	156.750	156.750		63		156.175	160.775	82A		82A	157.125	157.125																
16	16	16	156.800	156.800	63A			156.175	156.175		83	83	157.175	161.775																
17*1	17	17*1	156.850	156.850		64	64	156.225	160.825	83A		83A	157.175	157.175																
	18		156.900	161.500	64A		64A	156.225	156.225			83b	RX only	161.775																
18A		18A	156.900	156.900		65		156.275	160.875	84	84	84	157.225	161.825																
	19		156.950	161.550	65A	65A	65A	156.275	156.275	84A			157.225	157.225																
19A		19A	156.950	156.950		66		156.325	160.925	85	85	85	157.275	161.875																
20	20	20*1	157.000	161.600	66A	66A	66A*1	156.325	156.325	85A			157.275	157.275																
20A			157.000	157.000	67*1	67	67	156.375	156.375	86	86	86	157.325	161.925																

\*Only a low power.

## SPECIFICATIONS


General	
Frequency Range	TX: 156.000–161.450MHz RX: 156.000–163.425MHz
Type of Emission	FM ( 16K0G3E )
Battery Pack	1500mAh Li-ion (DC 3.7V)
Frequency Stability	± 10 PPM
Operating Temperature Range	-15°C ~ +55°C
Antenna Impedance	50
Dimensions (H × W × D)	140mm × 65mm × 41mm
Weight	247g

Transmitter	
Output Power	5W/1W
Maximum Frequency Deviation	± 5kHz
Spurious Emissions	0.25uW
Adjacent Channel Power	≥ 70dB
Audio Harmonic Distortion	≤ 10%
Current Drain	≤ 1.5A (High power) ≤ 0.9A (Low power) ≤ 0.35A (Max audio output)

Receiver	
Receive Sensitivity	≤ 0.22 μ V
Squelch Sensitivity	≤ 0.22 μ V
HUM and Noise	≥ 40dB
Adjacent Channel Selectivity	≥ 70dB
Spurious Response	≥ 70dB
Intermodulation	≥ 68dB
Audio Output Power	≥ 0.6W (10%)

Issues described in the following table are some common operational failure .

## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION	REF.
The transceiver does not turn ON.	<ul style="list-style-type: none"> <li>The battery is exhausted.</li> <li>The battery pack is not correctly inserted.</li> </ul>	<ul style="list-style-type: none"> <li>Recharge the battery pack.</li> <li>Correctly insert the battery pack.</li> </ul>	<ul style="list-style-type: none"> <li>1</li> <li>2</li> </ul>
No sound from speaker.	<ul style="list-style-type: none"> <li>The squelch level is too high.</li> <li>Volume level is too low.</li> <li>Speaker has been exposed to water.</li> </ul>	<ul style="list-style-type: none"> <li>Set the squelch level to the threshold level.</li> <li>Adjust the audio level to a suitable level.</li> <li>Remove water from the speaker grill.</li> </ul>	<ul style="list-style-type: none"> <li>5, 6</li> <li>1</li> <li>5</li> <li>6</li> </ul>
Transmitting is impossible, or high power can not be selected.	<ul style="list-style-type: none"> <li>Some channels are limited to low power</li> <li>or only receive.</li> <li>The output power is set to low.</li> <li>The battery is exhausted.</li> </ul>	<ul style="list-style-type: none"> <li>Change the channel.</li> <li>Push [Hi/Lo] to select high power.</li> <li>Recharge the battery pack.</li> </ul>	<ul style="list-style-type: none"> <li>7</li> </ul>
The displayed channel cannot be changed.	<ul style="list-style-type: none"> <li>The Lock function is activated.</li> </ul>	<ul style="list-style-type: none"> <li>Hold down [  ] (Hi/Lo) for 1 second to turn OFF the function.</li> </ul>	<ul style="list-style-type: none"> <li>9</li> </ul>
Scan does not start	<ul style="list-style-type: none"> <li>"TAG"channels are not programmed.</li> </ul>	<ul style="list-style-type: none"> <li>Set desired channels as "TAG" channels.</li> </ul>	<ul style="list-style-type: none"> <li>6</li> <li>6</li> </ul>
No beep sounds.	<ul style="list-style-type: none"> <li>Beep Tone function is turned OFF.</li> </ul>	<ul style="list-style-type: none"> <li>Turn ON the Beep Tone in the set mode.</li> </ul>	<ul style="list-style-type: none"> <li>11</li> </ul>

## 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](http://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](http://www.oricom.com.au).

## Express Warranty (Australia)

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

Nothing in this Express Warranty excludes, restricts or modifies any condition, warranty, guarantee, implied term, right or remedy pursuant to the Australian Consumer Law and which may not be so excluded, restricted or modified. For such conditions, terms, guarantees and warranties that cannot be excluded, restricted or modified, Oricom limits the remedies available to extent permitted in the relevant legislation.

The Express Warranty Period will be 2 years (excluding battery cells and rechargeable battery packs) 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 Express Warranty services.

You are entitled to a replacement product or repair of the product at our discretion according to the terms and conditions of this document if your product is found to be faulty within the Express Warranty Period. This Express Warranty extends to the original purchaser only and is not transferable.

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 Express Warranty Period of the Oricom branded product in which they are installed, whichever is longer. During the Express Warranty Period, Oricom will where possible repair and if not replace the faulty product or part thereof. All component parts removed under this

Express Warranty become the property of Oricom. In the unlikely event that your Oricom product has a recurring failure, Oricom may always, 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.

No change to the conditions of this Express Warranty is valid unless it is made in writing and signed by an authorised representative of Oricom.

Oricom will not be liable under this Express Warranty, and to the extent permitted by law will not be liable for any defect, loss, damage or injury arising out of or in connection with a:

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. Wilful misconduct or deliberate misuse by you of the product;
3. Any external cause beyond our control, including but not limited to power failure, lightning or over voltage; or
4. Modification to the product or services carried out on the product by anyone other than Oricom or Oricom's authorised service provider.

## How to make a claim under your Express Warranty in Australia

Oricom has a simple warranty process for you to follow:

- " Please call or email our Customer Support Team, 1300 889 785 or [support@oricom.com.au](mailto:support@oricom.com.au).
- " 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 Express 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.

**Contact Details for Oricom Support and Express Warranty Claims in Australia**

Oricom International Pty Ltd  
Locked Bag 658  
South Windsor, NSW 2756  
Australia

Email: [support@oricom.com.au](mailto:support@oricom.com.au)

Phone: (02) 4574 8888

(Monday to Friday 8am to 6pm AEST)

Web: [www.oricom.com.au](http://www.oricom.com.au)

Fax: (02) 4574 8898

**Contact Details for Oricom Support and Express Warranty Claims in New Zealand**

Email: [support@oricom.co.nz](mailto:support@oricom.co.nz)

Phone: 0800 674 266

(Monday to Friday 10am to 8pm NZST)

Web: [www.oricom.co.nz](http://www.oricom.co.nz)

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