MARINE RADIO

Handheld VHF Radio

GX865

INSTRUCTION MANUAL

CONTENTS

INTRODUCTION

Congratulations on purchasing this GME fully featured VHF marine radio. Your GX865 offers excellent value by combining advanced features, great design and manufacturing quality. To ensure you are familiar with the operation and features of your radio, and in order to obtain the best performance, please read this manual thoroughly before operation.

FEATURES

- Waterproof to IPX8
- 5/3/1 watt switchable transmit power
- Large LCD
- Private channel facility
- Voice recording with Playback
- Weather Channels with Alerts (USA and Canada channels)
- USB-C charging
- Four Scan modes with Memory
- Dual and Triple Watch
- Dual Colour Torch
- ATIS
- Floats and flashes in water

SUPPLIED WITH

- GX865 Marine Radio
- 5V AC/DC Adaptor
- USB-C Charging Cable
- High Gain Flexible Antenna
- Wrist Strap
- Belt Clip

OPTIONAL ACCESSORIES

- MB046 - Belt Clip
- PS006 - AC Adaptor for GX865/GX875
- AE4024 - Replacement Antenna Suits GX800, GX850, GX865, GX875

CAUTIONS

IMPORTANT: **READ ALL INSTRUCTIONS** carefully and completely before operating your radio and retain this manual for future reference.

- This device complies with RF specifications when the device is used at 25mm from your face front and 0mm from your body.

To maintain the waterproof integrity of the radio;

- **ENSURE** the antenna is firmly tightened to ensure a proper seal is made with the case.
- **NEVER** attempt to disassemble the radio.
- **NEVER** connect the radio to a power source other than the supplied battery. This may damage your product.
- **NEVER** use or charge your radio in a potentially explosive atmosphere.
- **NEVER** replace the battery with an incorrect Type. Battery is non-user serviceable and must be returned to GME or an approved service center.
- **DO NOT** use your radio with a damaged antenna.
- **DO NOT** attempt to modify your radio in any way.
- **ALWAYS** charge your radio at normal room temperature.
- **ALWAYS** switch off your radio where notices restrict the use of two-way radio or mobile telephones.
- **AVOID** storing or charging your radio in direct sunlight.
- **AVOID** storing or using your radio where temperatures are below -15º C or above +55º C.

RF RADIATION PROFILE

Your radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) regarding human exposure to radio frequency electromagnetic energy. This radio complies with the IEEE and ICNIRP exposure limits for occupational/controlled RF exposure environment at operating duty factors of up to 50% transmitting and is authorised by the FCC for occupational use only. In terms of measuring RF energy for compliance with the FCC exposure guidelines, your radio radiates measurable RF energy only while it is

transmitting (during talking in PTT mode), not when it is receiving (listening) or in standby mode.

The device complies with SAR and/or RF field strength limits of RSS-102 requirements.

RF RADIATION SAFETY

To ensure user health, experts from relevant industries including science, engineering, medicine and health work with international organisations to develop standards for safe exposure to RF radiation. These standards consist of:

- United States Federal Communications Commission, Code of Federal Regulations; 47CFR part 2 sub-part J;
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992;
- Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1999;
- International Commission on Non-Ionizing Radiation Protection (ICNIRP) 1998;

FCC Regulations

Federal Communication Commission (FCC) requires that all radio communication products should meet the requirements set forth in the above standards before they can be marketed in the U.S, and the manufacturer shall post a RF label on the product to inform users of operational instructions, so as to enhance their occupational health against exposure to RF energy.

Part 15 Compliance

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your dealer or an experienced radio/TV technician
  for help.

NOTE: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void
the user's authority to operate the equipment.

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 2014/53/EU. Please note that the above information is applicable to EU countries only.

CE

Declaration of Conformity

The information listed above provides the user with information needed to make him or her aware of RF exposure, and what to do to assure that this radio operates within the CE exposure limits of this radio. The device complies with RF specifications when the device used at 25mm from your front face and 0mm from your body. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided.

Maximum SAR Value (10g):0.459W/Kg.

OPERATING RULES

Priorities

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

law.

Privacy

- Information overheard but not intended for you cannot lawfully be used in any way.
- Indecent or profane language is prohibited.

OPERATING REQUIREMENTS

In Australia, any person operating a VHF marine radio should possess at least a Short Range Operators Certificate of Proficiency (SROCP) for VHF Radio Operations. Alternatively, operators may choose to obtain a Long Range Operator Certificate of Proficiency (LROCP) which covers the operation of both VHF and MF/HF equipment.

Many TAFEs and marine organisations offer courses leading to examination for the SROCP and LROCP although such courses are not compulsory. Persons wishing to obtain the SROCP or LROCP should first purchase a copy of the Marine VHF Radio Operators Handbook which is essential reading for every boat owner in Australia.

The Australian Maritime College (AMC) provides the marine examination and certificate service on behalf of the ACMA. The AMC can provide the details of organisations and individuals offering courses and or conducting exams. For further information visit: www.amc.edu.au

If you have obtained the SROCP you can operate your VHF radio under the maritime ship class licence. You do not need to apply for a class licence or pay any fees.

If operating your VHF radio under the LRSOP you will need to apply to the AMCA for a Maritime License.

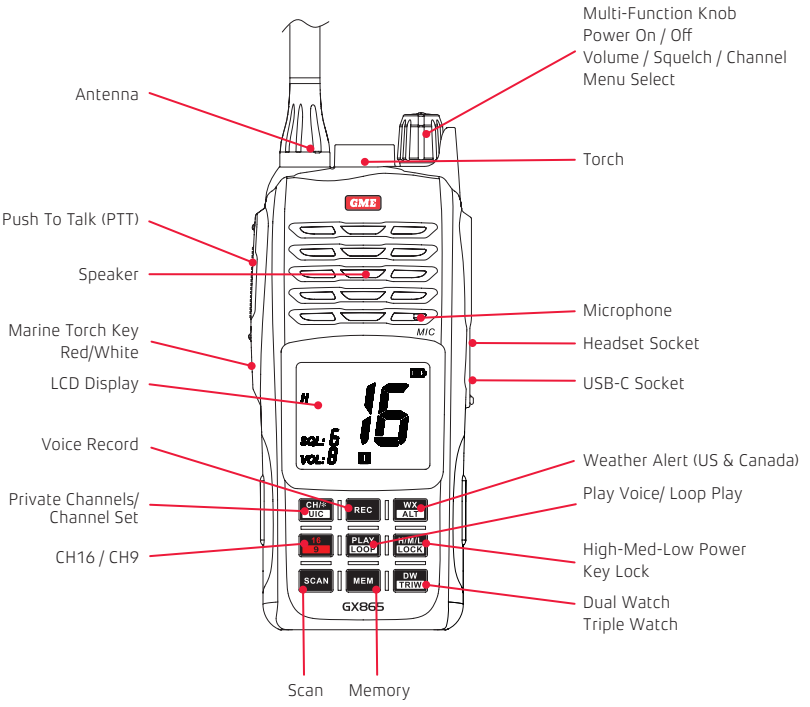
In New Zealand, operators of a VHF marine radio require a Maritime VHF Operators Certificate (MVOC) and a callsign. Please refer to www.maritimenz.govt.nz for further details.

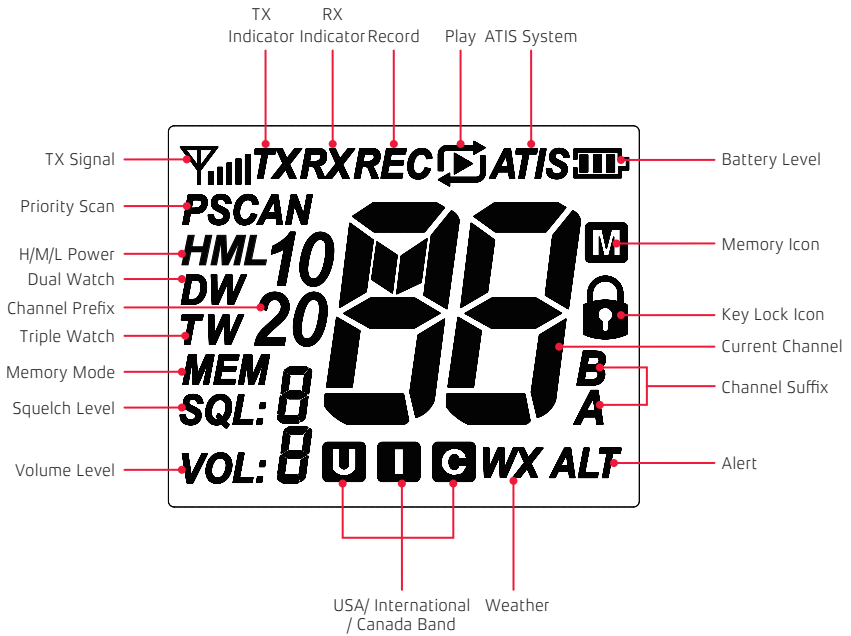
Courses for the MVOC can be arranged through www.boatingeducation.org.nz.

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 like the GX865, ship to ship communications up to 5 nautical miles should be possible. Using an external antenna should allow ship to ship communication of 8 nautical miles or more. Ship to shore ranges will often be greater due to the increased height of the shore antenna.

MULTI-FUNCTION KNOB




TX Indicator
RX Indicator
Record
Play
ATIS System
TX Signal
Priority Scan
H/M/L Power
Dual Watch
Channel Prefix
Triple Watch
Memory Mode
Squelch Level
Volume Level
TXRXREC
ATIS
PSCAN
HML
DW
TW
MEM
SQL:
VOL:
10
20
U
I
C
WX
ALT
M
B
A
Battery Level
Memory Icon
Key Lock Icon
Current Channel
Channel Suffix
Alert
USA/ International / Canada Band
Weather

KEY FUNCTIONS		
KEY	**SHORT PRESS (< 3 SECS)**	**LONG PRESS (> 3 SECS)**
Multi-function Knob	Push to Power On Rotate to adjust the Volume Push once then rotate to adjust the Squelch Push twice then rotate to select a Channel. While scanning, rotate to select the Scan direction.	Push to Power Off
	Torch On/Off	Toggle Red/White Colour
SCAN + POWER ON	Water Displacement Technology	
REC	Voice Recording Enable/Disable	
PLAY LOOP	Play Voice	Loop Voice Play
H/M/L LOCK	Transmit Power High – Medium – Low	Key lock
16 9	Channel 16 (main priority channel)	Channel 9 (secondary priority channel)
DW TRIW	Dual Watch Mode	Triple Watch Mode
WX ALT	Weather Channel (USA & Canada bands)	Weather Alerts Enable/Disable (USA & Canada bands)
SCAN	Scan	Priority Scan
MEM	Memory Mode	Save/Delete memory Channel
CH/* UIC	Private Channel	Channel Sets (US / International / Canada)

The multi-function knob controls the On/Off, Volume, Squelch and Channel functions with the Volume being the default. The operation of these functions are described below:

POWER ON/OFF

Short press the multi-function knob to switch the unit On. The backlight will be lit and a short beep will be heard. The last selected channel, transmit power, volume and squelch settings will be recalled. After a few seconds the backlight will be extinguished.

Long press the multi-function knob to switch the unit Off.

VOLUME

To adjust the Volume, simply rotate the multi-function knob. The volume level is displayed with values from 0 – 9.

After setting the volume, short press the multi-function knob three times to exit or simply wait and the volume setting mode will time-out after 10 seconds.

SQUELCH

To adjust the Squelch, short press the multi-function knob once. The squelch level will be highlighted on the display. Rotate the multi-function knob to adjust the squelch level from 0 to 9. At level 0 the squelch is at minimum and the receiver's background noise will be heard.

Increase the squelch level only as far as required to keep the receiver quiet when there are no signals present, while still being able to receive weaker signals. Setting the squelch level too high can reduce the receiver's sensitivity and could cause you to miss incoming calls.

After setting the squelch, short press the multi-function knob twice to exit or simply wait and the squelch setting mode will time-out after 10 seconds.

CHANNEL

To select Channels, short press the multi-function knob twice. The channel number will flash. Rotate the multi-function knob clockwise or counter clockwise to select the desired channel.

After selecting the channel, short press the multi-function knob once to exit or simply wait and the channel selection mode will time-out after 20 seconds.

BACKLIGHT

The backlight operates automatically whenever any key (except the PTT) is pressed and switches off 5 seconds after the last key press. The backlight provides lighting for the display and keypad.

TRANSMITTING

To transmit, press the Push-To-Talk (**PTT**) key. The **TX** and icons will be displayed to indicate the radio is transmitting. Hold the radio in front of you with the microphone about 3-5 cm from your face and speak at a normal voice level. The microphone is quite sensitive so it is not necessary to raise your voice or shout. For best performance speak across the microphone rather than directly into it.

Release the **PTT** when you have finished talking. The **TX** and icons will disappear

Transmit Power

The GX865 has three transmitter power output settings marked High (5W), Medium (3W) or Low (1W).

Short press the H/M/L LOCK key to cycle through the available power settings. A corresponding **H**, **M** or **L** icon will be displayed to the left of the channel number to confirm the selected power setting.

When transmitting, the signal meter icon will also indicate the selected power setting as shown below.

NOTE: Some channels may be permanently set to 1W power by default. Attempting to change the power setting on these channels with the H/M/L LOCK key will give an error beep, however, some channels may allow you to overrule this restriction temporarily – e.g. channels 13 & 67 in the US channel set.

To temporarily transmit using 5W on these channels, press the **PTT** to transmit then hold down the H/M/L LOCK key while transmitting. As long as the H/M/L LOCK key remains held, the radio will transmit on High power and the H and icons will be displayed. When you release the H/M/L LOCK key, the transmitter power will return to the Low power setting.

Transmit Timeout Timer

The GX875 has a built-in time-out timer that automatically limits transmissions to a maximum of 5 minutes of continuous operation. This feature prevents accidental blocking of the frequency should your **PTT** become jammed or be otherwise pressed accidentally.

When the time-out timer activates, the transmission will stop and the radio will return to receive mode. Normal operation will be restored once the **PTT** is released.

CHANNELS 16/9

The GX865 supports two priority channels.

Priority Channel 16

Channel 16 is the international emergency channel. To immediately switch to Channel 16, short press the 16/9 key. All previous functions such as scanning will be cancelled, transmit power will be set to 5W and the **P** icon will be displayed.

Short press the 16/9 key again to return to the last selected channel. The **P** icon will disappear.

Second Priority Channel

To immediately switch to the second priority channel, long press the 16/9 key. All previous functions such as scanning will be cancelled, transmit power will be set to 5W and the **P** icon will be displayed.

To exit and return to the last selected channel, short press the 16/9 key twice. The **P** icon will disappear.

Programming the Second Priority Channel

The second priority channel can be user-programmed to any of the standard marine channels. Note the 'second priority channel' programming feature is also available under **VHF Operation** in the **Main Menu.**

To program your preferred channel into the second priority channel using the 16/9 key;

- Long press the 16/9 key. The radio will switch to the present second priority channel and **P** will be displayed.
- Long press the 16/9 key again. **P** will disappear, Set P-2nd CH will be displayed the channel number will flash.
- Rotate the multi-function knob to select the desired channel.
- Long press the 16/9 key again. **P** will reappear and the new channel will be stored as your second priority channel.
- To exit and return to the last selected channel, short press the 16/9 key twice. The **P** icon will disappear.

DUAL WATCH

The Dual Watch function is a 2 channel scan feature where the radio switches between Channel 16 and any other selected channel. This allows you to monitor a working or club channel while still being able to receive important broadcasts on Channel 16.

To use the Dual Watch function;

1. Use the **Channel** function on the multi-function knob to select the desired working channel. Short press the knob when done.
2. Short press the DW/TRIW key to activate Dual Watch. The **DW** icon will appear and the channel number will quickly alternate between 16 and the selected channel.

- If a signal is received on the selected channel, Dual Watch will pause to allow the signal to be heard but will continue to monitor channel 16 every 2 seconds resulting in short breaks in the conversation. Once the signal has gone, Dual Watch continues.
- If a signal appears on channel 16 the radio will lock onto channel 16 and take priority over any signals on the selected channel.
- If the weather alert function has been activated the selected **WX** channel will also be monitored every 4 seconds.

To cancel Dual Watch, short press the DW/TRIW key.

TRIPLE WATCH

The Triple Watch function is a 3 channel scan feature where the radio switches between Channel 16, a selected channel and the second priority channel. This allows you to monitor 2 channels while still being able to receive important broadcasts on Channel 16.

To use the Triple Watch Function

1. Program your second priority channel as described earlier.

2. Use the **Channel** function on the multi-function knob to select the desired working channel. Short press the knob when done.

3. Long press the DW TRIW key to activate Triple Watch.

The **TW** icon will appear and the channel number will quickly alternate between 16, the second priority channel and the selected channel.

- If a signal is received on either the selected channel or the second priority channel, the Triple Watch will pause to allow the signal to be heard but will continue to monitor channel 16 every 2 seconds resulting in short breaks in the conversation. Once the signal has gone, Triple Watch continues.
- If a signal appears on channel 16 it will take priority over any signals on the other two channels.
- If the weather alert function has been activated the selected **WX** channel will also be monitored every 4 seconds.

To cancel Triple Watch, short press the DW TRIW key.

CHANNEL MEMORIES

The Channel Memory feature allows you to program a number of often-used channels into memory for quick access. This can save you from scrolling through the entire list of over 50 channels just to access a few regular channels.

Note: The GX865 holds separate memories for the US, International and Canadian bands

To Program Memory Channels

1. Use the **Channel** function on the multi-function knob to select the desired working channel.

2. Long press the MEM key to toggle the channel in or out of memory. The M icon appears to the right of the selected channel when that channel is in Memory.

3. Repeat steps 1 and 2 to add further channels to the Scan Memory.

To access the Memory Channels

1. Short press the MEM key. **MEM** will appear in the top-right of the display.

Note: If there are no channels in memory, an error beep will be heard.

2. Use the **Channel** function on the multi-function knob to step through the Memory channels. Only channels stored in the Memory will be displayed.

To exit back to normal mode, short press the MEM key. **MEM** will disappear from the display.

NOTE: You cannot add or remove memory channels while in the memory mode. You must exit back to the normal mode first.

SCAN MODES

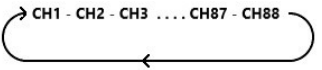
All Scan

The All Scan function allows the radio to scan all channels for signals. When a signal is detected the scan pauses to allow the signal to be heard. Once the signal has gone the scan resumes.

- To activate the All Scan function, short press the SCAN key. The **SCAN** icon appears and the channel numbers change rapidly as the radio scans for signals.
- To deactivate the scan function, short press the SCAN key again. The **SCAN** icon disappears and the display returns to normal operation.

To change the scan direction, rotate the multi-function knob while scanning.

During **All Scan**, the scanned channel sequence is as follows.



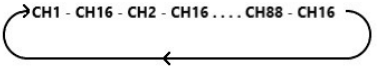
Priority Scan

Priority Scan is similar to All Scan except it regularly inserts channel 16 into the scan. Signals received on channel 16 have priority over signals received on other channels.

- To activate the Priority Scan function, long press the SCAN key. The **PSCN** icon appears and the channel numbers change rapidly with channel 16 appearing predominantly in the channel display area.
- To deactivate the Priority Scan function, short press the SCAN key. The **PSCN** icon disappears and the display returns to normal operation.

To change the scan direction, rotate the multi-function knob while scanning.

During Priority Scan the scanned channel sequence is as follows.



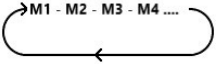
Memory Scan

Memory Scan allows you to scan your preprogrammed memory channels. See 'Channel Memories' above for details on programming memory channels.

To Activate Memory Scan

- Short press the MEM key. **MEM** will appear in the top-right of the display to confirm the radio is now in Memory mode and the channel display will switch to a Memory channel. Note: Only Memory channels are displayed while in Memory mode.
- Short press the SCAN key. The radio will begin scanning the Memory channels.
- To change the scan direction, rotate the multi-function knob while scanning.
- To stop scanning; short press the SCAN key again.
- To exit the Memory mode, short press the MEM key. **MEM** will disappear from the display and the radio will return to the last selected channel.

During Memory Scan, channels will be scanned as shown below where M1, M2, M3 represents 1st, 2nd, 3rd memory channels etc.



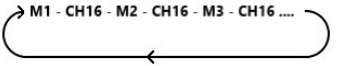
Priority Memory Scan

Priority Memory Scan is similar to memory scan except it regularly inserts channel 16 into the scan. Signals received on channel 16 have priority over signals received on the memory channels.

To activate the Priority Memory Scan function

- Short press the MEM key. **MEM** will appear in the top-right of the display to confirm the radio is now in Memory mode and the channel display will switch to a Memory channel. Note: Only Memory channels are displayed while in Memory mode.
- Long press the SCAN key. The **PSCAN** icon appears and the memory channel numbers change rapidly with channel 16 appearing predominantly in the channel display area. Signals received on channel 16 have priority over signals received on the memory channels.
- To stop scanning; short press the SCAN key again.
- To exit the Memory mode, short press the MEM key. **MEM** will disappear and the radio will return to normal operation.

During Priority Memory Scan, channels will be scanned as shown below where M1, M2, M3 represents 1st, 2nd, 3rd memory channels etc.



KEY LOCK

Long press the H/M/L LOCK key to lock the keypad. The icon will be displayed and all keys will be locked except for the PTT key and the LOCK function on the key. Pressing all other keys will result in an error beep.

To unlock the keypad, long press the H/M/L LOCK key again. The icon will disappear.

TORCH

The torch uses a high-intensity bi-colour LED to provide an efficient light source using minimal power from the radio's battery. The LED can toggled from white to red to suit the operating environment. Use the white light for maximum visibility or the red light to reduce glare and preserve night vision.

The torch also features five lighting sequences - bright, medium, dim, fast flash, and SOS flash.

To activate the torch

Short press the R/W key to activate the torch and to cycle through the lighting sequences. The torch switches off between each sequence. The following sequence will be observed.

Bright – Off – Medium – Off – Dim – Off – Fast Flash – Off – SOS Flash – Off

To change the LED colour

Long press the R/W key until the unit beeps. If the torch is on, you'll see the colour change. If the torch is off, the new colour will be apparent the next time it's switched on.

RECORD/PLAY VOICE

When the Record function is activated, the GX875 can record up to 60 seconds of voice from the 5 most recent incoming calls. Recording starts automatically each time the squelch opens.

To enable Recording

Short press the REC key. The **REC** icon appears.

To disable Recording

Short press the REC key. The **REC** icon disappears.

To Play the recording

Long press the PLAY LOOP key. A icon appears and the recording is played once. After the recording has played, the icon disappears.

To Play the recording in a Loop

Long press the PLAY LOOP kkey. The icon appears and the channel number is replaced with LP. The recording will play continuously in a loop until cancelled. To cancel the Loop short press the PLAY LOOP kkey.

CHANNEL SETS

The GX865 supports the International, USA and Canadian channel sets. When operating outside the US or Canada the International channel-set should be selected.

To select the desired channel-set, long press the CH/* UIC key. The radio will beep and the selected channel-set icon **U, I** or **C** will be displayed below the channel number. Repeat until the desired icon is displayed. See table below.

ICON	CHANNEL SET
U	USA
I	International
C	Canada

WEATHER CHANNELS (US & CANADA)

The US NOAA weather channels are receive-only channels providing weather information services in and around the US and Canada. They are available only when the US or Canadian Channel Sets are selected and are not available on the International marine channels.

To access the weather channels while on the US or Canadian channel sets:

- Long press the CH/* UIC key. The radio will switch to the weather channels and the **WX** icon will appear above the channel number.
- Use the Channel function on the multi-function knob to select the desired weather channel. Weather channels are numbered 1 – 10.

To exit the weather channels and return to the normal communications channels, short press the CH/* UIC key.

WEATHER ALERT FUNCTION (US & CANADA)

When a weather warning is issued in your area the NOAA weather service will transmit a weather alert tone on the local weather channel. If you have enabled the weather alert function, your radio will monitor your selected weather channel for this tone and if received, your radio will emit a short alarm tone and will automatically tune to the selected weather channel. When enabled, the weather alert should be detected in all the modes of operation including Standby, Dual and Tri-watch and Scan etc.

To enable the Weather Alert Function;

- Long press the CH/* WX key to gain access to the weather channels. **WX** will appear above the channel number.
- Use the Channel function on the multi-function knob to select the desired weather channel. Weather channels are numbered 1 – 10.
- Long press the CH/* WX key again. The weather alert function will be enabled and ⚡ will appear next to **WX**.
- Short press the CH/* WX key to return to normal operation. will remain on the display.

When the weather alert function is enabled the radio will check the selected weather channel every 4 seconds for a weather alert tone. If detected, the radio will sound a short alarm, the **WX** and ⚡ icons will flash and the radio will automatically tune to the selected weather channel to allow you to hear the weather warning.

To disable weather alerts

Long press the CH/* WX key to access the weather channels (**WX** is displayed) then long press the CH/* WX ey again. The ⚡ icon will disappear from the display.

Short press the CH/* WX key to exit back to normal operation.

PRIVATE CHANNELS

Private Channels are only programmed by the supplier. In Australia and New Zealand, the radio must be returned to GME for programming and must be supported with the relevant ACMA documentation.

Private channels are only available for organisations that have been officially allocated special frequencies by the ACMA (Australian Communications and Media Authority).

All requests for private channel programming must be supported by ACMA (Australian Communications and Media Authority) documentation.

To access private channels (if fitted);

- Short press the CH/* WX key to select the private channel mode.
- Use the Channel function on the multi-function knob to select the desired channel.

Note: If the channel number displays ⬬ ⬬ there are no private channels in your radio.

To exit the private channel mode and return to the normal channel set, short press the CH/* WX key.

WATER DISPLACEMENT TECHNOLOGY (WDT)

If your GX865 becomes immersed in water, **WDT** will assist in displacing any water trapped in the speaker grill which can often be difficult to remove. This is achieved by emitting a loud resonant tone.

To activate WDT

- Ensure your radio is switched Off.
- Long press the SCAN key whilst short pressing the multi-function knob. The radio will switch on and the letters qu will be displayed.
- Use the SCAN key to activate **WDT**. A loud tone will be emitted from the speaker. Hold the GX865 face down to assist with displacing any water from the speaker grill.
- When the speaker grill is free from water, press the SCAN key again to stop the tone. You can now restart the GX865 using the multi-function knob.

It is recommended to use the **WDT** feature whenever the GX865 has been submersed in water.

ATIS

ATIS stands for Automatic Transmitter Identification System. ATIS is used to identify a ship or vessel that has made a radio transmission. The identity of the vessel is sent digitally each time the radio operator releases the PTT after transmitting.

ATIS is generally used in the inland waterways of Europe and is only available when the International channel set is selected.

The use of ATIS requires a unique 9 digit Maritime Mobile Service Identity or MMSI (note that the ATIS MMSI is completely separate to the MMSI required for the DSC functionality included in DSC compatible radios).

Radio operators in Europe who require the ATIS function should obtain their unique ATIS MMSI from their local Maritime Authority.

IMPORTANT: Once the ATIS ID has been programmed into the radio, the ATIS function is enabled and becomes a permanent part of the radio's operation. It cannot be cleared, disabled or changed by the user.

Programming the ATIS ID

1. Switch the radio Off.
2. Hold the H/M/L LOCK key while switching the radio On to access the ATIS mode.
3. When the unit switches on, **1** – will be displayed. Here is where you will enter your 9 digit ATIS ID. The **1** indicates that you are about to enter the 1st (left-most) digit of your ATIS ID. The flashing – indicates the empty space where you will enter the digit.

	E.G. FOR ATIS ID 342985532								
Digit Position	**1**	2	3	4	5	6	7	8	9
ID Digit	**3**	4	2	9	8	5	5	3	2

4. Rotate the multi-function knob to select the first digit of your ID in the – position. For example if the 1st digit of your ID is 3, rotate the multi-function knob until 3 is displayed in the – position. When the correct digit is displayed press the multi-function knob to accept it.
5. The 1 changes to 2 to indicate you're now entering the 2nd digit of your ID. Once again rotate the multi-function knob to until the second digit of your ID is displayed then press the multi-function knob. 3 will be displayed and so on.
6. Continue until all 9 ID digits have been entered.
7. Once the 9th digit has been entered and the multi-function knob has been pressed you will be asked to re-enter the ID again. This is to ensure the ID you have entered is valid. Repeat the process above to re-enter all 9 digits.
8. After entering a valid ID for the second time the ATIS ID will be flashed in sequence on the display. The radio will then revert to normal operation.
9. To store the ATIS ID permanently, switch off the radio (hold the multi-function knob until the radio switches off).

NOTE: If the second ATIS entry doesn't match the first, the operation will be cancelled and you will need to start again.

Once the ATIS ID has been permanently stored in the radio, holding the key while switching the radio on will cause the radio to flash its ATIS ID on the display.

CHARGING THE BATTERY

lift the tab on the lower end of the rubber flap located on the right hand side of the radio to expose the USB-C charging socket. Plug the supplied 240V AC Adaptor into the 240V power then use the supplied USB-C charging lead to connect the adaptor to the USB-C socket on the radio.

While the charger is connected the display will show the battery charging state by animating the battery icon in the top right corner of the screen.

Battery Full

Important: When the charging is complete, remove the cable and firmly press the rubber flap into the recess in the case to minimise water ingress and protect the charging and headphone sockets from damage.

Note: The battery is a built-in design and is not user serviceable. If the battery requires replacing, the radio should be returned to GME for service to ensure the waterproof integrity of the radio is maintained.

INTERNATIONAL MARINE VHF CHANNEL AND FREQUENCIES				
CH	**TX Freq**	**RX Freq**	**Simplex**	**Use**
1	156.050	160.650		Public Correspondence, Port Operations and Ship Movement
2	156.100	160.700		Public Correspondence, Port Operations and Ship Movement
3	156.150	160.750		Public Correspondence, Port Operations and Ship Movement
4	156.200	160.800		Public Correspondence, Port Operations and Ship Movement
5	156.250	160.850		Public Correspondence, Port Operations and Ship Movement
6	156.300	156.300	x	Inter-ship [1]
7	156.350	160.950		Public Correspondence, Port Operations and Ship Movement
8	156.400	156.400	x	Inter-ship
9	156.450	156.450	x	Public Correspondence, Port Operations and Ship Movement
10	156.500	156.500	x	Public Correspondence, Port Operations and Ship Movement [2]
11	156.550	156.550	x	Port Operations and Ship Movement
12	156.600	156.600	x	Port Operations and Ship Movement
13	156.650	156.650	x	Inter-ship Safety, Port Operations and Ship Movement [3]
14	156.700	156.700	x	Port Operations and Ship Movement
15	156.750	156.750	x	Inter-ship and On-board Communications at 1W only [4]
16	156.800	156.800	x	Distress, Safety and Calling
17	156.850	156.850	x	Inter-ship and On-board Communications at 1W only [4]
18	156.900	161.500		Public Correspondence, Port Operations and Ship Movement
19	156.950	161.550		Public Correspondence, Port Operations and Ship Movement
1019	156.950	156.950		Public Correspondence, Port Operations and Ship Movement
2019	161.550	161.550		Public Correspondence, Port Operations and Ship Movement
20	157.000	161.600		Public Correspondence, Port Operations and Ship Movement
1020	157.000	157.000		Public Correspondence, Port Operations and Ship Movement
2020	161.600	161.600		Public Correspondence, Port Operations and Ship Movement
21	157.050	161.650		Public Correspondence, Port Operations and Ship Movement
22	157.100	161.700		Public Correspondence, Port Operations and Ship Movement
23	157.150	161.750		Public Correspondence, Port Operations and Ship Movement
24	157.200	161.800		Digital – Channel is blocked for analogue communication
25	157.250	161.850		Digital – Channel is blocked for analogue communication
26	157.300	161.900		Satellite – Channel is blocked for analogue communication
27	157.350	161.950		Channel is divided into 2027 (Licenced analogue communication) and 2028 (Analogue communication forbidden)
28	157.400	162.000		Channel is divided into 2027 (Licenced analogue communication) and 2028 (Analogue communication forbidden)
60	156.025	160.625		Public Correspondence, Port Operations and Ship Movement

INTERNATIONAL MARINE VHF CHANNEL AND FREQUENCIES cont.				
CH	**TX Freq**	**RX Freq**	**Simplex**	**Use**
61	156.075	160.675		Public Correspondence, Port Operations and Ship Movement
62	156.125	160.725		Public Correspondence, Port Operations and Ship Movement
63	156.175	160.775		Public Correspondence, Port Operations and Ship Movement
64	156.225	160.825		Public Correspondence, Port Operations and Ship Movement
65	156.275	160.875		Public Correspondence, Port Operations and Ship Movement
65A	156.275	156.275		Non-Commercial
66	156.325	160.925		Public Correspondence, Port Operations and Ship Movement
66A	156.325	156.325		Non-Commercial
67	156.375	156.375	x	Inter-ship, Port Operations and Ship Movement [2]
68	156.425	156.425	x	Port Operations and Ship Movement
69	156.475	156.475	x	Inter-ship, Port Operations and Ship Movement
71	156.575	156.575	x	Port Operations and Ship Movement
72	156.625	156.625	x	Inter-ship
73	156.675	156.675	x	Inter-ship [2]
74	156.725	156.725	x	Port Operations and Ship Movement
75	156.775	156.775	x	See Note [5]
76	156.825	156.825	x	See Note [5]
77	156.875	156.875	x	Inter-ship
78	156.925	161.525		Public Correspondence, Port Operations and Ship Movement
1078	156.925	156.925		Public Correspondence, Port Operations and Ship Movement
2078	161.525	161.525		Public Correspondence, Port Operations and Ship Movement
79	156.975	161.575		Public Correspondence, Port Operations and Ship Movement
1079	156.975	156.975		Public Correspondence, Port Operations and Ship Movement
2079	161.575	161.575		Public Correspondence, Port Operations and Ship Movement
80	157.025	161.625		Public Correspondence, Port Operations and Ship Movement
81	157.075	161.675		Public Correspondence, Port Operations and Ship Movement
82	157.125	161.725		Public Correspondence, Port Operations and Ship Movement
83	157.175	161.775		Public Correspondence, Port Operations and Ship Movement
84	157.225	161.825		Digital – Channel is blocked for analogue communication
85	157.275	161.875		Digital – Channel is blocked for analogue communication
86	157.325	161.925		Satellite – Channel is blocked for analogue communication
87	157.375	157.375	x	Port Operations and Ship Movement
88	157.425	157.425	x	Port Operations and Ship Movement

- Inter-ship channels are for communications between ship stations. Inter-ship communications should be restricted to Channels 6, 8, 72 and 77. If these are not available, the other channels marked for Inter-ship may be used.
- Channel 70 is used exclusively for Digital Selective Calling (DSC) and is not available for regular voice communications.

Notes:

- Channel 06 may also be used for communications between ship stations and aircraft engaged in coordinated search and rescue operations. Ship stations should avoid harmful interference to such communications on channel 06 as well as to communications between aircraft stations, ice breakers and assisted ships during ice seasons.
- Within the European Maritime Area and in Canada, channels 10, 67 and 73 may also be used by the individual administrations concerned for communication between ship stations, aircraft stations and participating land stations engaged in coordinated search and rescue and anti-pollution operations in local areas. Channels 10 or 73 (depending on location) are also used for the broadcast of Marine Safety Information by the Maritime and Coast Guard Agency in the UK only.
- Channel 13 is designated for use on a worldwide basis as a navigation safety communication channel, primarily for inter-ship navigation safety communications.
- Channels 15 and 17 may also be used for on-board communications provided the effective radiated power does not exceed 1 Watt.
- The use of Channels 75 and 76 should be restricted to navigation related communication only and all precautions should be taken to avoid harmful interference to channel 16. Transmit power is limited to 1 Watt.

U.S. MARINE VHF CHANNELS AND FREQUENCIES				
CH	**TX Freq**	**RX Freq**	**Simplex**	**Use**
01A	156.050	156.050	X	Port Operations and Commercial, VTS. Available only in New Orleans / Lower Mississippi area.
05A	156.250	156.250	X	Port Operations or VTS in the Houston, New Orleans and Seattle areas
06	156.300	156.300	X	Intership Safety
07A	156.350	156.350	X	Commercial
08	156.400	156.400	X	Commercial (Intership only)
09	156.450	156.450	X	Boater Calling. Commercial and Non-Commercial
10	156.500	156.500	X	Commercial
11	156.550	156.550	X	Commercial. VTS in selected areas
12	156.600	156.600	X	Port Operations. VTS in selected areas
13	156.650	156.650	X	Intership Navigation Safety (Bridge-to-bridge). Ships >20m length maintain a listening watch on this channel in US waters.
14	156.700	156.700	X	Port Operations. VTS in selected areas
15	--	156.750		Environmental (Receive only). Used by Class C EPIRBs
16	156.800	156.800	X	International Distress, Safety and Calling. Ships required to carry radio, USCG, and most coast stations maintain a listening watch on this channel.
17	156.850	156.850	X	State & local govt maritime control
18A	156.900	156.900	X	Commercial
19A	156.950	156.950	X	Commercial
20	157.000	161.600		Port Operations (duplex)
20A	157.000	157.000	X	Port Operations
21A	157.050	157.050	X	U.S. Coast Guard only
22A	157.100	157.100	X	Coast Guard Liaison and Maritime Safety Information Broadcasts. Broadcasts announced on channel 16.
23A	157.150	157.150	X	U.S. Coast Guard only
24	157.200	161.800		Digital – Channel is blocked for analogue communication
25	157.250	161.850		Digital – Channel is blocked for analogue communication
26	157.300	161.900		Satellite – Channel is blocked for analogue communication
27	157.350	161.950		Channel is divided into 2027 (Licenced analogue communication) and 2028 (Analogue communication forbidden)
28	157.400	162.000		Channel is divided into 2027 (Licenced analogue communication) and 2028 (Analogue communication forbidden)

U.S. MARINE VHF CHANNELS AND FREQUENCIES cont.				
CH	**TX Freq**	**RX Freq**	**Simplex**	**Use**
63A	156.175	156.175	X	Port Operations and Commercial, VTS. Available only in New Orleans / Lower Mississippi area.
65A	156.275	156.275	X	Port Operations
66A	156.325	156.325	X	Port Operations
67	156.375	156.375	X	Commercial. Used for Bridge-to-bridge communications in Lower Mississippi River. Intership only.
68	156.425	156.425	X	Non-Commercial
69	156.475	156.475	X	Non-Commercial
70	156.525	156.525	X	Digital Selective Calling (voice communications not allowed)
71	156.575	156.575	X	Non-Commercial
72	156.625	156.625	X	Non-Commercial (Intership only)
73	156.675	156.675	X	Port Operations
74	156.725	156.725	X	Port Operations
77	156.875	156.875	X	Port Operations (Intership only)
78A	156.925	156.925	X	Non-Commercial
79A	156.975	156.975	X	Commercial. Non-Commercial in Great Lakes only
80A	157.025	157.025	X	Commercial. Non-Commercial in Great Lakes only
81A	157.075	157.075	X	U.S. Government only - Environmental protection operations.
82A	157.125	157.125	X	U.S. Government only
83A	157.175	157.175	X	U.S. Coast Guard only
84	157.225	161.825		Digital – Channel is blocked for analogue communication
85	157.275	161.875		Digital – Channel is blocked for analogue communication
86	157.325	161.925		Satellite – Channel is blocked for analogue communication
87	157.375	157.375	X	Public Correspondence (Marine Operator)
88A	157.425	157.425	X	Commercial, Intership only

- Recreational boaters normally use channels listed as Non-Commercial: 68, 69, 71, 72, 78A.
- Channel 70 is used exclusively for Digital Selective Calling (DSC) and is not available for regular voice communications.
- Channels 75 and 76 are reserved as guard bands for Channel 16 and are not available for regular voice communications.

Notes:

- The letter “A” following a channel number indicates simplex use of the ship station transmit side of an international semi-duplex channel. Operations are different from that of international operations on that channel.
- Channel 13 should be used to contact a ship when there is danger of collision. All ships of length 20 meters or greater are required to guard VHF channel 13, in addition to VHF channel 16, when operating within U.S. territorial waters.
- Channel is Receive Only.
- Channel 16 is used for calling other stations or for distress alerting.
- Output power is fixed at 1 watt only.
- Output power is initially set to 1 watt. User can temporarily override this restriction to transmit at high power.

CANADIAN MARINE VHF CHANNELS AND FREQUENCIES												
CH	**TX Freq**	**RX Freq**	**EC**	**NL**	**AC**	**GL**	**WC**	**BCC**	**INL BCC**	**INL PRA**	**Use**	**Restrictions**
01	156.050	156.650						X			PC	None
02	156.100	160.700						X			PC	None
03	156.150	160.750						X	X		PC	None
04A	156.200	156.200	X					X			IS, SS, C, S	DFO/Canadian Coast Guard only in BCC area. Commercial fishing in EC area.
05A	156.250	156.250	X	X	X	X	X	X	X		SM	None
06	156.300	156.300	X	X	X	X	X	X	X	X	IS, C, NC, S	May be used for search and rescue communications between ships and aircraft.
07A	156.350	156.350	X	X	X	X	X	X	X		IS, SS, C	None
08	156.400	156.400	X				X		X		IS, C, S	Also assigned for intership in the Lake Winnipeg area.
09	156.450	156.450			X			X		X	IS, SS, C, NC, S, SM	Commercial – BCC area. May be used to communicate with aircraft and helicopters in predominantly maritime support operations.
10	156.500	156.500			X	X		X			IS, SS, C, NC, S, SM	Commercial – BCC area. May also be used for communications with aircraft engaged in coordinated search and rescue and antipollution operations.
11	156.550	156.550			X	X		X			IS, SS, C, NC, SM	VTS – BCC area. Also used for pilotage purposes.
12	156.600	156.600			X	X	X	X			IS, SS, C, NC, SM	VTS – BCC area. Port operations and pilot information and messages.
13	156.650	156.650	X	X	X	X	X	X	X		IS, C, NC, SM	VTS – BCC area. Bridge-to-bridge navigational traffic.
14	156.700	156.700			X	X		X			IS, SS, C, NC, SM	VTS – BCC area. Port operations and pilot information and messages.
15	156.750	156.750	X	X	X	X	X	X	X	X	IS, SS, C,	Port operations and Ship Movement – BCC area. All operations limited to 1 watt maximum power. May also be used for on-board communications.
16	156.800	156.800									All areas	

CANADIAN MARINE VHF CHANNELS AND FREQUENCIES cont.

CH	TX Freq	RX Freq	EC	NL	AC	GL	WC	BCC	INL BCC	INL PRA	Use	Restrictions
17	156.850	156.850	X	X	X	X	X	X	X	X	IS, SS, C, NC, SM	Port operations and Ship Movement – BCC area. All operations limited to 1 watt maximum power. May also be used for on board communications. maximum power. May also be used for on board communications.
18A	156.900	156.900	X	X	X	X	X	X	X		IS,SS, C	Towing – BCC area
19A	156.950	156.950	X	X	X	X	X	X	X	X	IS, SS	DFO/Canadian Coast Guard. Pacific Pilots – BCC area.
20	157.000	161.600	X	X	X	X	X	X	X		SS, S, SM	Port operations only with 1 watt maximum power.
21A	157.050	157.050	X	X	X	X	X	X	X	X	IS, SS	DFO/Canadian Coast Guard only
21B	--------	161.650	X	X	X	X	X	X	X	X	S	Continuous Marine Broadcast (CMB) service.
22A	157.100	157.100	X	X	X	X	X	X	X	X	IS, SS, C, NC	For communications between Canadian Coast Guard and non-Canadian Coast Guard stations only.
23	157.150	161.750						X	X		SS, PC	None
23B	--------	161.750				X					S	Continuous Marine Broadcast (CMB) service
24	157.200	161.800	X	X	X	X	X	X	X	X	SS, PC	None
25	157.250	161.850						X			SS, PC	Also assigned for operations in the Lake Winnipeg area.
25B	--------	161.850			X						S	Continuous Marine Broadcast (CMB) service
26	157.300	161.900	X	X	X	X	X	X	X	X	SS, PC	None
27	157.350	161.950			X	X		X			SS, PC	None
28	157.400	162.000						X			SS, S, PC	None
28B	--------	162.000			X	X					S	Continuous Marine Broadcast (CMB) service
60	156.025	160.625						X			SS, PC	None
61A	156.075	156.075	X					X			IS, SS, C	DFO/Canadian Coast Guard only in BCC area. Commercial fishing only in EC area.
62A	156.125	156.125	X					X			IS, SS, C	DFO/Canadian Coast Guard only in BCC area. Commercial fishing only in EC area.
63A	156.175	156.175						X			IS, SS, C	Tow Boats – BCC area
64	156.225	160.825						X			SS, PC	None

CANADIAN MARINE VHF CHANNELS AND FREQUENCIES cont.												
CH	**TX Freq**	**RX Freq**	**EC**	**NL**	**AC**	**GL**	**WC**	**BCC**	**INL BCC**	**INL PRA**	**Use**	**Restrictions**
64A	156.225	156.225	X								IS, SS, C	Commercial fishing only
65A	156.275	156.275	X	X	X	X	X	X	X	X	S, IS, SS, C, NC	Search and rescue and antipollution operations on the Great Lakes. Towing on the Pacific Coast. Port operations only in the St. Lawrence River areas with 1 watt maximum power. Intership in INLD PRA.
66A	156.950	156.950	X	X	X	X	X	X	X		IS, SS	Port operations only in the St. Lawrence River/Great Lakes areas with 1–watt maximum power. 1 watt marina channel – BCC area.
67	156.375	156.375	X	X	X	X	X	X	X	X	SS, IS, ,C, NC	May also be used for communications with aircraft engaged in coordinated search and rescue and antipollution operations. Commercial fishing only in EC and INLD PRA areas. Pleasure craft – BCC area.
68	156.425	156.425	X	X	X	X	X	X	X	X	IS, SS, NC	For marinas, yacht clubs and pleasure craft.
69	156.475	156.475	X	X	X	X	X	X	X		IS, SS, C, NC	Commercial fishing only – EC area. Pleasure craft – BCC area.
70	156.525	156.525	Digital Selective Calling for Distress, Urgency, Safety and Calling								All Areas	Voice communications prohibited.
71	156.575	156.575	X	X	X	X	X	X	X		S, IS, SS, SM, C, NC	Ship Movement – BCC area. Marinas and yacht clubs – EC and on Lake Winnipeg.
72	156.625	156.625	X					X			IS, C, NC	May be used to communicate with aircraft and helicopters in predominantly maritime support operations. Pleasure craft – BCC area.
73	156.675	156.675	X	X	X	X	X	X	X	X	S, IS, SS,	May also be used for communications with aircraft engaged in coordinated search and rescue and antipollution operations. Commercial fishing only in EC and INLD PRA areas.
74	156.725	156.725	X					X			IS, SS, SM, C, NC	VTS and Ship Movement – BCC area
75	156.775	156.775	X	X	X	X	X	X	X	X	IS, SS, SM, C	Simplex port operation, ship movement and navigation related communication only. 1 watt maximum.

CANADIAN MARINE VHF CHANNELS AND FREQUENCIES cont.												
CH	**TX Freq**	**RX Freq**	**EC**	**NL**	**AC**	**GL**	**WC**	**BCC**	**INL BCC**	**INL PRA**	**Use**	**Restrictions**
76	156.225	156.225	X								IS, SS, SM, C	Simplex port operation, ship movement and navigation related communication only. 1 watt maximum.
77	156.275	156.275	X	X	X	X	X	X	X	X	S, IS, SS, SM,	Pilotage – BCC area; 25 watts. Port operations only in the St. Lawrence River/Great Lakes areas with 1 watt maximum power.
78A	156.950	156.950	X	X	X	X	X	X	X		IS, SS, C	Fishing Industry – BCC area
79A	156.375	156.375	X	X	X	X	X	X	X	X	SS, IS,	Fishing Industry – BCC area
80A	157.025	157.025	X					X			IS, SS, C	Whale Watching – BCC area
81A	157.075	157.075	X	X	X	X	X	X	X		S, IS, SS	DFO/Canadian Coast Guard use only
82A	157.125	157.125	X	X	X	X	X	X	X		IS, SS	DFO/Canadian Coast Guard use only
83A	157.175	157.175			X	X		X			IS, SS	DFO/Canadian Coast Guard and other Government agencies.
83B	--------	161.775			X	X		X			S	Continuous Marine Broadcast (CMB) Service.
84	157.225	161.825						X			SS, PC	None
85	157.275	161.875		X	X	X		X			SS, PC	None
86	157.325	161.925						X			SS, PC	None
87	157.375	161.375		X	X	X		X			IS,SM, NC	Port operation and ship movement – EC area. Pleasure craft – BCC area.
87B	161.975	161.975	X	X	X	X	X	X	X	X	AIS	Automatic Ship Identification and Surveillance System.
88	157.425	157.425		X	X	X		X			IS, SM, C	Port operation and ship movement – BCC area.
88B	162.025	162.025	X	X	X	X	X	X	X	X	AIS	Automatic Ship Identification and Surveillance System.

WEATHER CHANNELS				
WX-1	--------	162.550	S	Environment Canada Weather Radio
WX-2	--------	162.400	S	Environment Canada Weather Radio
WX-3	--------	162.475	S	Environment Canada Weather Radio
WX-4	--------	162.425	S	Environment Canada Weather Radio
WX-5	--------	162.450	S	Environment Canada Weather Radio
WX-6	--------	162.500	S	Environment Canada Weather Radio
WX-7	--------	162.525	S	Environment Canada Weather Radio

Table Footnotes			
EC	- East Coast (NL, AC, GL, and Eastern Arctic areas)	IS	Intership
NL	- Newfoundland and Labrador	SS	Ship / Shore
AC	- Atlantic Coast, Gulf and St. Lawrence River to and including Montreal	C	Commercial
GL	- Great Lakes including the St. Lawrence above Montreal	NC	Non-Commercial
WC	- West Coast (BCC, Western Arctic, and Athabasca-Mackenzie Watershed areas)	S	Safety
BCC	- British Columbia Coast (Pacific Coast)	SM	Ship Movement
Inland BC	- Inland Waters of BC and the Yukon	PC	Public Correspondence
Inland PRA	- Inland Waters of MB, SK, and AB	AIS	Automatic Ship Identification
		VTS	Vessel Traffic Services

SPECIFICATIONS

General

Type	Description
Frequency Range: Transmit	156.025 To 162.425 MHz
Frequency Range: Receive	156.050 To 163.275 MHz
Number Of Channels VHF	56 INT Channels 52 USA Channels 59 Canada Channels 10 Weather Channels(only for USA)
Memory Channel	99 Memory Channels
Oscillate Mode	PLL
Modulation	FM (16K0G3E)
Channel Spacing	25 kHz
Frequency Stability	±5 PPM
Standard Operation Temperature	-15 ~ +55 °C
Record	Maximum 60 seconds
Controls: POWER ON/OFF/VOL/SQL/CH	Multi-Function Coding Knob
Feature Keys	PTT, Torch/R/W, DISTRESS, CH/*/WX, REC/PLAY, CALL/MENU, 16/9, WP/GOTO, H/M/L/LOCK, SCAN, MEM, DW/TRIW
Normal Working Voltage	3.7 V (With Li-Polymer Battery 4000mAh)
Low Limit Working Voltage	3 V
Battery Lifetime (Tx 5% / Rx 5% / Standby 90%)	≥ 24 H
Controls: Volume/Squelch/Channel	Coding Knob
Charging current	1500 +/-200 mA
Antenna Socket	SMA (Male)
Display	Segment Code 2.0 Inch LCD With White Back Light
Built-in Speaker	Diameter 40mm / Impedance 8 Ohm
Accessory	IPX8 waterproof cable, Belt Clip, Hand Strap, Flexible Rubber Antenna, 3.7V Li-Polymer Battery Pack (4000mAh), AC 100~240V / DC 5V Wall Adaptor (worldwide)

SPECIFICATIONS

Transmitter

Type	Description
1. Carrier power(no mod) High power: Middle power: Low power	 5W 3W 1W
2. Carrier freq.Tolerance	±5 ppm
3. Max Modulation limiting	5 ±KHz
4. Audio frequency response @300Hz: @2KHz:	 13.5 ~ -9.5 dB 3.0 ~ 7.0 dB
5. Audio distortion at 3 KHz Dev.	< 5%
6. Residual modulation	≤ -40 dB
7. Mic sens.For 3KHz	13 ±3 mV
8. Conducted spurious emission	≤ -36 dBm
9. Current drain Transmit(High): Transmit(Middle): Transmit(Low):	 ≤ 3.2A ≤ 2A ≤ 1.2A

Receiver

Type	Description
1. Sensitivity For 12dB Sinad	≤ -6 (EMF) dBuV
2. Squelch a) squelch threshold: b) squelch tight: c) hysteresis:	 6.0 (EMF) dbμV 0dBuV ~ +6dBuV 3 ~ 6 dbuV
3. Rated audio output at 10% Thd Speaker	≥ 700mW
4. Max.S/N ratio at 1mV	≤ 40 dB
5. Audio frequency resp. @300Hz: @2KHz: @3KHz:	1KHz/0dB ref. +7.5 ~ +11.5 -9 ~ -5 -12.5 ~ -8.5

SPECIFICATIONS

Receiver

Type	Description
6. Adjacent Channel Rejection	≥ 70 dB
7. Image rejection	≥ 70 dB
8. Intermod rejection	≥ 68
9. Spurious response rejection	≥ 70 dB
10. Scan time. Per channel	≤ 200
11. StandBy Current	≤ 40
12. Max Audio Power	≤ 400

General Standard

1. Floating & Flash
2. Waterproof: IPX8
3. Communication Range: About 5 nautical miles
4. Build in Battery

Dimension & Weight

Type	Description
Dimension (L/W/H)	155 x 60 x 40 mm
Weight	285 grams

GME CONTRACT WARRANTY AGAINST DEFECTS

This warranty against defects is given by GME Pty Ltd ACN 000 346 814 (We, us, our or GME). Our contact details are set out in clause 2.7. This warranty statement only applies to products purchased in Australia. Please contact your local GME distributor for products sold outside of Australia. Local distributor details at www.gme.net.au/export.

1. Consumer guarantees

1.1 Our goods 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 for 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.

1.2 To the extent we are able; we exclude all other conditions, warranties and obligations which would otherwise
be implied.

2. Warranty against defects

2. 1 This warranty is in addition to and does not limit, exclude or restrict your rights under the Competition and Consumer Act 2010 (Australia) or any other mandatory protection laws that may apply.

2.2 We warrant our goods to be free from defects in materials and workmanship for the warranty period (see warranty table) from the date of original sale (or another period we agree to in writing). Subject to our obligations under clause 1.2, we will at our option, either repair or replace goods which we are satisfied are defective. We warrant any replacement parts for the remainder of the period of warranty for the goods into which they are incorporated.

2.3 To the extent permitted by law, our sole liability for breach of a condition, warranty or other obligation implied by law is limited.

(a) in the case of goods we supply, to any one of the following as we decide –

(i) the replacement of the goods or the supply of equivalent goods;

(ii) the repair of the goods;

(iii) the cost of repairing the goods or of acquiring equivalent goods;

(b) in the case of services we supply, to any one of the following as we decide -

(i) the supplying of the services again;

(ii) the cost of having the services supplied again.

2.4 For repairs outside the warranty period, we warrant our repairs to be free from defects in materials and workmanship for three months from the date of the original repair. We agree to re-repair or replace (at our option) any materials or workmanship which we are satisfied are defective.

2.5 We warrant that we will perform services with reasonable care and skill and agree to investigate any complaint regarding our services made in good faith. If we are satisfied that the complaint is justified, and as our sole liability to
you under this warranty (to the extent permitted at law),
we agree to supply those services again at no extra charge to you.

2.6 To make a warranty claim you must before the end of the applicable warranty period (see warranty table), at your own cost, return the goods you allege are defective, provide written details of the defect, and give us an original or copy of the sales invoice or some other evidence showing details of the transaction.

2.7 Send your claim to:

GME Pty Ltd.
PO Box 96, Winston Hills, NSW 2153, Australia.
Tel: 1300 463 463
Email: servadmin@gme.net.au

2.8 If we determine that your goods are defective, we will pay for the cost of returning the repaired or replaced goods to

3. What this warranty does not cover

3.1 This warranty will not apply in relation to:

(a) goods modified or altered in any way;

(b) defects and damage caused by use with non GME products;

(c) repairs performed other than by our authorised representative;

(d) defects or damage resulting from misuse, accident, impact or neglect;

(e) goods improperly installed or used in a manner contrary to the relevant instruction manual; or

(f) goods where the serial number has been removed or made illegal.

4. Warranty period

4.1 We provide the following warranty on GME and Kingray products. No repair or replacement during the warranty period will renew or extend the warranty period past the period from original date of purchase.

PRODUCT TYPE	WARRANTY PERIOD
GX865/GX875 Marine radios	2 years

gme.net.au
GME Pty Ltd

17 Gibbon Road, Winston Hills NSW 2153, Australia

Part Number: 311185 Drawing Number: 53226-2