MARINE RADIO

Handheld VHF Radio

GX875

CONTENTS

INTRODUCTION

Congratulations on purchasing this GME fully featured VHF marine radio. Your GX875 has been built to offer excellent value by combining advanced features, great design and manufacturing quality. To ensure you are familiar with the operation and features of your audio, and to obtain the best performance, please read this manual thoroughly before operation.

FEATURES

• Waterproof to IPX8

• Man Overboard Alarm Function

• Floats with Auto-Flashing LCD if dropped overboard

• Integrated 48 Channel GPS Receiver

• 5/3/1 watt Switchable Power

• Large Dot-Matrix LCD

• Private Channel Facility

• Programmable Scan, Priority Scan, Dual and Tri Watch

• All International, US and Canadian Marine VHF Channel Sets.

• Integrated 4000 mAh Lithium Polymer Battery

• USB-C Charge Port

SUPPLIED WITH

• GX875 DSC Marine Radio

• Belt Clip

• 5V AC/DC Adaptor

• USB-C Charge Cable

• Wrist Strap

• High Gain Flexible Antenna

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.

$C\epsilon$

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 GX875, 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.

MARINE MOBILE SERVICE IDENTITY (MMSI)

The MMSI is a 9-digit number used to identify a radio that is capable of using Digital Selective Calling (DSC). The number is used to selectively call other vessels. To setup and use the DSC feature on your radio: Please refer to the 'DSC' section of this manual.

USER MMSI

To use the DSC feature you must be registered with the appropriate licensing authority (AMSA in Australia) who will issue you with your unique user MMSI number. Having a registered user MMSI means you can be identified much quicker in an emergency. Once you have obtained your MMSI number you can then enter this into your GX875 to enable

DSC operation. Your GX875 is shipped from the factory without a user MMSI number. It is up to the user to obtain a valid MMSI from the appropriate licensing authority.

NOTE: If you don't register for a User MMSI, you can still receive DSC distress calls from other vessels however you cannot send a DSC call.

GROUP MMSI

The Group MMSI is used for DSC Group Calls. A Group Call provides a method for contacting a group of vessels with a common interest, for example, alerting all yachts in a race to announce a change in the race conditions. Any number with a leading zero can be used as a Group MMSI, and they do not need to be registered, but the entity deciding on a Group MMSI must use the MID of the host country or country of vessel registration (e.g. 503 in Australia). The Group ID should be based on a key vessel in the Group, and the recommended system is to drop the last digit of the key vessel's MMSI and place a zero in front.

For example, a fleet of vessels that has a lead vessel with a DSC User MMSI of 503080110 could use the Group MMSI of 050308011. This would then be programmed into all fleet vessels as the special event Group MMSI.

See 'My MMSI ID Setup' for details on entering a group MMSI.

VHF Antenna

Push To Talk (PTT)

Speaker

Marine Torch Key
Red/White

LCD Display

Record / Play Voice
Loop Play

Private Channels
Weather Channels

CH16 / CH9

Multi-Function Knob
Power On / Off
Volume / Squelch / Channel
Menu Select

Torch

Distress Key

Microphone

Headset Socket

USB-C Socket

Call Menu

Set Waypoint
Goto Waypoint

High-Med-Low Power
Key Lock

Dual Watch
Triple Watch

Scan   Memory

Message — Digital Selective Calling — Band — WX Alerts

Battery Level

TX Power

RX Indicator

Dual Watch

Squelch Level

Volume Level

Record

Memory Mode

Key Lock

Memory Icon

Current Channel

Distress Mode

GPS Position

DSC INT MEM

6W
RX
DW
SQL:5
VOL:6
REC

16
DISTRESS
22°36.04212N
113°51.64357E
25 JUN 08:06 UTC

Date — Month — UTC Time

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
R/W	Torch On/Off	Toggle Red/White Colour
REC PLAY	Voice Recording: Enable/Disable	Play List / Loop Play
WP GOTO	Set Waypoint	Go to Waypoint
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
SCAN	Scan	Priority Scan
MEM	Memory Mode	Save/Delete memory Channel
CH/✳ WX	Private Channels	Weather Channels Weather Alerts
CALL MENU	DSC Call Menu	Main Setup Menu
SCAN	Shock Wave Function	
DISTRESS	Distress Menu	Distress Alert Calling

MULTI-FUNCTION KNOB

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 10 seconds.

BACKLIGHT

The backlight provides lighting for the display and keypad. It operates automatically whenever any key (except the **PTT**) is pressed and switches off a few seconds after the last key press. The backlight on-time can be adjusted using the **System Config** option in the **Main Menu**.

TRANSMITTING

To transmit, press the Push-To-Talk (**PTT**) key. The **TX** icon 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** icon will disappear.

Transmit Power

The GX875 has three transmitter power output settings: 5W, 3W and 1W.

Short press the 🔒 key to cycle through the available power settings. A corresponding **5W, 3W** or **1W** icon will be displayed to the left of the channel number to confirm the selected power setting.

NOTE: Some channels may be permanently set to 1W power by default. Attempting to change the power setting on these channels with the 🔒 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 🔒 key while transmitting. As long as the 🔒 key remains held, the transmit power will be set to 5W and the **5W** icon will be displayed. When you release the 🔒 key, the transmitter power will return to the 1W 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.

PRIORITY

The GX875 supports two priority channels.

Priority Channel 16

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

Short press the ![key] key again to return to the last selected channel. The P-CH icon will disappear.

Second Priority Channel

To immediately switch to the second priority channel, long press the ![key] key. All previous functions such as scanning will be cancelled, transmit power will be set to 5W and the P2nd icon will be displayed.

To exit and return to the last selected channel, short press the ![key] key twice. The **P2nd** 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 ![key] key;

- Long press the ![key] key. The radio will switch to the present second priority channel and P2nd will be displayed.

- Long press the ![key] key again. P2nd will disappear, Set P-2nd CH be displayed the channel number will flash.

- Rotate the multi-function knob to select the desired channel.

- Long press the ![key] key again. P2nd 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 ![key] key twice. The P2nd 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 **TRIW** icon will appear and the channel number will quickly alternate between 16, the second priority channel and the selected channel.

- IIf 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.

- IIf a signal appears on channel 16 it will take priority over any signals on the other two channels.

- IIf 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 GX875 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.

CH1 - CH2 - CH3 . . . . CH87 - CH88
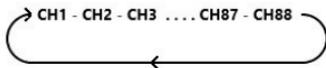
Priority Scan

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.

CH1 - CH16 - CH2 - CH16 . . . . CH88 - CH16
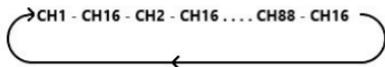
Memory Scan

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 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 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.

M1 - M2 - M3 - M4 ....
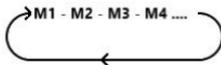
Priority Memory Scan

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 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 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 key again.

- To exit the Memory mode, short press the 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.
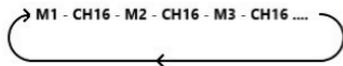
M1 - CH16 - M2 - CH16 - M3 - CH16 .....

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 🔦 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 🔦 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.

Note the torch colour can also be set via the System Config option in the Main Menu.

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/PLAY key. The **REC** icon appears.

To disable Recording

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

To Play the recording

Long press the REC/PLAY key. A **Play List** appears showing 5 recording memories labelled REC1 – REC5 (fig 1). The number in the right column represent the length of each recording in seconds. A value of 00 indicates the memory is empty. If **K** is displayed, that memory has been 'write protected' and will not be overwritten by new recordings.

Figure 1

1. Rotate the multi-function knob to select the desired memory.

2. Press **Play** to play the recording in the selected memory.

3. Press **Enter** to access the **Audio Play** menu (fig 2).

4. Rotate the multi-function knob to select Keep Audio or not Keep Audio .

   i. Choose **not Keep Audio** to allow the selected memory to be overwritten by new recordings

   ii. Choose **Keep Audio** to protect that memory from being overwritten. If **Keep Audio** is chosen, the selected memory displays **K** in the middle column on the Play List screen..

5. Press **Enter** to confirm. ✓ will appear next to your selection.

Figure 2

• Press Loop to play the selected memory in a loop.

• Press Exit to return to the Play List.

• Press Exit again to return to normal operation.

SHOCK WAVE FEATURE

If your GX875 becomes immersed in water, the **Shock Wave** feature 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 Shock Wave

• Ensure your radio is switched Off.

• Long press the SCAN key while short pressing the multi-function knob. The radio will switch on and **Shock Wave** will be displayed.

• Release the SCAN key to activate **Shock Wave**. A loud tone will be emitted from the speaker. Hold the GX875 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. Long press the multi-function knob when complete to shut down the GX875.

It is recommended to use the Shock Wave feature whenever the GX875 has been submersed in water.

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/★ WX 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/★ WX 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 ⬛ 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 ⬛ key.

GPS RECEIVER

Your GX875's GPS receiver receives real time satellite data from the Global Positioning System to provide date, time and your precise location. This can be used to provide position information for DSC transmissions and for navigational data.

Instructions for setting up the following features can be found in **GPS Setup** under the **MAIN MENU** (see further below).

GPS Type

The GX875 supports both the US Global Positioning System (GPS) and the Chinese BeiDou or BDS system. You can choose to use either GPS, BeiDou or both systems together.

GPS Date and Time

When the GX875 is not receiving GPS signals, the screen can be set to display the time and date in either UTC or Local time format. To display in Local time, set the UTC Offset value in hours to match your local region. For example, in Sydney set the UTC Offset to +10:00 (or +11:00 during daylight saving). You can also choose to switch off the display of date and time.

GPS Satellite Status

The GPS Satellite status page provides a 'sky view' of the GPS satellites showing their signal strength and location in the sky. Press Menu to select GPS Satellite Status page

COG/SOG display

The COG/SOG page displays navigation information about your vessel's GPS position in Lat/Long, the date and time as well as your speed (in knots or km/h) and course (in degrees) across the ground.

WAYPOINTS

Creating Waypoints

1. Short press the ⬛ key. The waypoint page is displayed (fig 3).

2. Select **New Entry** to create a new waypoint then press **Enter.** The waypoint entry screen appears (fig 2).

3. If your GX875 currently has a GPS fix, it will automatically fill the latitude and longitude fields for you, so you will only need to enter a name for the waypoint. In this case follow the instructions immediately below.

If your GX875 does not have a GPS fix, you will need to manually enter your waypoint's latitude and longitude – Go to step 4 further below.

  i. The latitude field should contain your position's latitude. Press ▶ repeatedly to move the cursor to the end of that line without changing anything. When **Enter** appears, press **Enter.**

  ii. The cursor will move to the longitude field and your position's longitude should appear automatically. Once again, press ▶ repeatedly to move the cursor to the end of that line without changing anything until **Enter** appears, then press **Enter**.

  iii. The cursor with then move down to the **Input Name** field.

iv. Rotate the multi-function knob to select characters for your waypoint name then press ▶ to move to the next character (fig 4). After entering your desired name, press ▶ repeatedly to move the cursor to the end of the line until **Enter** appears, then press **Enter**. Your waypoint is saved and the display returns to the waypoint page (fig 5).
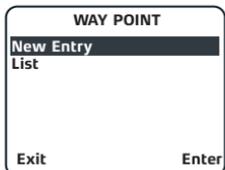
```
       WAY POINT
New Entry
List


Exit              Enter
```
Figure 3

```
       NEW ENTRY
Input Position
            31°26.95562S
            151°32.25530E
Input Name
            WPT1--------
Exit                    ▶
```
Figure 4
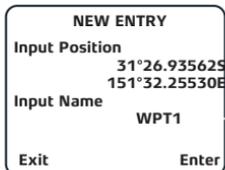
```
       NEW ENTRY
Input Position
            31°26.93562S
            151°32.25530E
Input Name
            WPT1

Exit              Enter
```
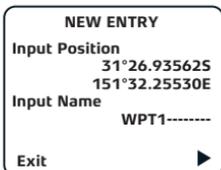Figure 5

4. If your GX875 does not have a GPS fix the latitude and longitude in the **Input Position** fields will be blank and you will need to enter the position of your waypoint manually as follows;

i. Rotate the multi-function knob to select numbers for your waypoint's latitude then press ▶ to move to the next number position. Repeat until you have completely filled the top line. When **Enter** appears, press **Enter.**

ii. The cursor will move to the next line. Repeat step (i) above to enter the desired longitude. When **Enter** appears, press **Enter**.

iii. The cursor with then move down to the **Input Name** field.

iv. Rotate the multi-function knob to select characters for your waypoint name then press ▶ to move to the next character. After entering your desired characters, press ▶ repeatedly to move the cursor to the end of the line. When **Enter** appears, press **Enter**. Your waypoint is saved and the display returns to the waypoint page.

Listing Waypoints

1. Short press the [WP GOTO] key. The waypoint page is displayed.

2. Select **List** to view the saved waypoints then press **Enter**. The waypoint list screen appears (fig 6).

3. Rotate the multi-function knob to select a waypoint then press **Enter** (fig 7).

4. The options **View, Edit** and **Delete** are offered (fig 8).

5. Select **Exit** to return to the previous screen OR

• Select **View** then press **Enter** to view the waypoint's contents.

• Select **Edit** then press **Enter** to make changes to the waypoint.

• Select **Delete** then press **Enter** to erase the waypoint. When asked **Are you sure?**, select **Yes** or **No.**

```
       WAY POINT
New Entry
List


Exit              Enter
```
Figure 6

```
List
  WPT1
  REEF
  FISH
  BUOY


Exit              Enter
```
Figure 7

```
List
  View
  Edit
  Delete


Exit              Enter
```
Figure 8

The GOTO Function

Use the **GOTO** function to navigate to a saved waypoint.
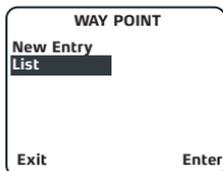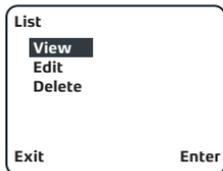
1. Short press the **GOTO** key then select **List** (fig 6) and press **Enter**. The waypoint list appears (fig 7).

2. Rotate the multi-function knob to select the desired waypoint then press **Enter.** The **View**, **Edit** and **Delete** options are listed (fig 8).

3. Press **Exit** repeatedly to return to normal operation.

4. Now long press the **GOTO** key. The navigation screen appears (fig 9) showing the position details of your selected waypoint along with navigational data such as distance and bearing from your present position to the waypoint. SOG (Speed Over Ground) indicates your current speed. COG (Course Over Ground) indicates your current heading.

```
WTP1
    POS: 31°26.93562S
    151°32.25530E
    DISTANCE: 26.4
    BEARING: 136°
    SOG: 12 KITS
    COG: 136°
    UTC: 1354
Exit            Enter
```
Figure 9

To navigate to the waypoint, adjust your course so that your COG matches the bearing to the waypoint. The distance will get smaller as you move towards the waypoint.

Note: If there are no waypoints saved in your radio, a long press of the **GOTO** key will give an error beep.

DIGITAL SELECTIVE CALLING (DSC)

The Digital Selective Calling (DSC) feature on your GX875 uses pre-formatted digital messages instead of voice to transmit urgent or important information to another radio. In

times of an emergency, DSC can alert all radios within range to a distress message even when a listening watch is not being maintained. This increases the chances of your signal

being heard. DSC can also be used to make All Ships Calls, Group Calls and Position Requests as well as routine calls to individual radios. DSC is part of the

Global Maritime Distress and Safety System (GMDSS) which is expected to eventually replace listening

watches on distress frequencies and will be used to announce all routine and urgent maritime safety information broadcasts.

DSC AND GPS

DSC operation is enhanced by the in-built GPS receiver in your GX875. By using GPS, your distress call can automatically include your current position and time. If a GPS position cannot be obtained, DSC calls can still be sent and received to alert the operator of another vessel for subsequent voice communication.

DSC calls are automatically sent and received on CH70. The GX875 has two receivers, one of which is dedicated to CH70. Therefore, regardless of which channel you are operating on, the GX875 will not miss a DSC call.

USER MMSI (MARINE MOBILE SERVICE IDENTITY)

A User MMSI is a unique 9-digit number used to identify a DSC capable radio. An MMSI is used to selectively call other vessels. Before you can use DSC, you must enter your User

MMSI number into the 'My MMSI ID' option in the DSC Menu. If you don't yet have a User MMSI, please register with your local Maritime Authority (AMSA in Australia – go to http://www.amsa.gov.au/mmsi/ for more details and to download an application form) who will then issue a unique MMSI number.

Please refer to the 'My MMSI ID' option further below for instructions on entering your User MMSI.

DISTRESS CALLS

To make a Distress Call use the button under the DISTRESS cover on the side of the GX875. To make any other DSC call, use the **CALL MENU** key on the main keypad.

Making a Distress Call

1. Lift the bottom end of the DISTRESS cover on the side of the radio.

2. Briefly press the **Distress** button. The display shows the 'Distress' Menu list (fig 10).

3. Rotate the multi-function knob to select a pre-formatted distress message. The list includes: Undesignated, Fire, Explosion, Flooding, Collision, Grounding, Capsizing, Sinking, Adrift, Abandoning, Piracy and Man Overboard. You will need to scroll past the bottom of the displayed list to reveal all of the available options.

4. Press and hold the **Distress** button. The display will flash and the radio will beep as it counts down from 3 to 1 (fig 11).

Note: To cancel the distress call, release the Distress button before the countdown is completed. The radio will return to normal operation.

When the countdown is complete, the Distress call will be sent. The radio will then switch to CH16 and the display will show **DISTRESS** to indicate it is now in the distress mode and is waiting for an acknowledgement from another radio (fig 12). The distress call mode will be cancelled when a **DISTRESS ACKNOWLEDGE** is received and the radio will then return to normal operation.

```
Distress Menu
    Undesignated
    Fire Explosion
    Flooding
    Collision
    Grounding
    Capsizing

Exit
```
Figure 10

```
Distress Call
    Sinking

    Push the key
    for 3 seconds!
```
Figure 11
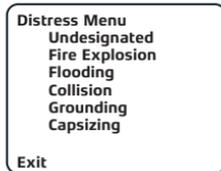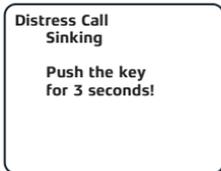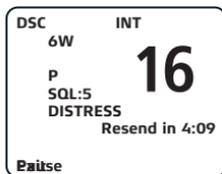
```
DSC        INT
    6W
                16
P
SQL:5
DISTRESS
          Resend in 4:09

Pause Exit
```
Figure 12

If an acknowledgement is not received, the distress call will be re-sent at around 4 minute intervals for as long as the radio remains in the distress call mode. Select **PAUSE** to delay the resending of the distress call or **Exit** to cancel.

NOTE: A Distress Acknowledge response is generally sent by a coastal base station.

Receiving a Distress Call

When a Distress Call is received, an audible Distress Alert alarm will be generated and, if the Auto Channel Change option in the **DSC Setup** Menu set to Automatic, the GX875 will switch to CH16.

Note: To view all received DSC messages, see **Receive Call Log** under **DSC MENU** immediately below.

DSC MENU

Apart from distress calls, all other DSC calls are made using the **DSC Menu**. To access the DSC menu short press the **CALL MENU** key.

```
DSC Menu
    Individual Call
    Position Request
    All Ship Call
    Group Call
    Test Call
    Recieve Call Log
    Send Call Log
Exit               En-
```
Figure 13

Note: The last few menu items will not be immediately visible until you scroll past the bottom of the list.

MY MMSI ID SETUP

Before using the DSC function you must set up your user DSC MMSI ID. If you don't yet have a user DSC MMSI ID, please register with your local Maritime Authority.

Note: You do not require a user MMSI to receive distress calls but you will if you want to transmit them.

IMPORTANT: It is a requirement of the regulations that the User MMSI can only be entered ONCE. For this reason take special care when entering your user MMSI number to ensure it is entered correctly before saving it. You will be required to enter your MMSI twice as confirmation of the correct number before it is stored by the radio. If you need to change the MMSI (due to an entry error or after purchasing a second hand GX875) please contact GME to arrange for the MMSI code to be reset.

To enter the 9 digit User MMSI number issued to you by your local authority:

1. Briefly press the [CALL MENU] key to enter the DSC menu.

2. Rotate the multi-function knob to select **My MMSI ID** then press **Enter**.

3. Rotate the multi-function knob to select the number in the first digit position then press ▶ to advance to the next digit.

4. Repeat step 3 to enter the full 9 digit MMSI number. Once you have been entered all 9 digits, press **Enter** (fig 14).
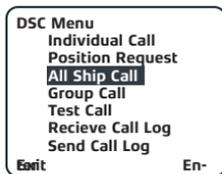
5. You will be asked to enter the MMSI again. Repeat step 3 to re-enter the MMSI then press **Enter** to store or press **Exit** to cancel without saving.
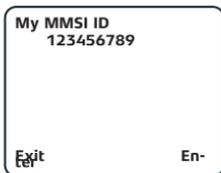
```
┌─────────────────────────────┐
│  My MMSI ID                 │
│    123456789                │
│                             │
│                             │
│                             │
│                             │
│  Exit                 En-   │
│  ter                        │
└─────────────────────────────┘
```
Figure 14

To make an INDIVIDUAL CALL, POSITION REQUEST, GROUP CALL or TEST CALL

The **Individual Call** option is used to alert a specific vessel that you wish to communicate with them on a specified channel. If the called vessel's radio is on a different channel, their radio will change to the channel you specify.

A **Position Request** (or position polling) is used to obtain the position of another vessel. If the receiving vessel is in range, an acknowledgement will be received from them that will include their position. If there is no acknowledgement, either the receiving boat is not in your communication area or it has chosen to ignore your request.

A **Group Call** is used to contact a group of vessels that are using the same Group MMSI. All ships in the group who receive the Group call will change to the specified channel. For example, this feature could be used to alert all yachts in a race to announce a change in the race conditions. Any number with a leading zero can be used as a Group MMSI, and they do not need to be registered, but the entity deciding on a Group MMSI must use the MID of the host country or country of vessel registration (503 in Australia). The Group ID should be based on a key vessel in the Group, and the recommended system is to drop the last digit of the key vessel's MMSI and place a zero in front.

e.g. A fleet of vessels that has a lead vessel with a DSC self-ID of 503080110 could use the Group MMSI of 050308011. This would then be programmed into all fleet vessels as the special event Group MMSI.

The **Test Call** option can be used to make a test call to your local Coast Station. The coast station should provide an automated response to confirm that your radio's DSC is operating correctly.

The operations of the call options described above are all very similar.

1. Briefly press the [CALL MENU] key to enter the **DSC menu.**

2. Rotate the multi-function knob to select **Individual Call, Position Request, Group Call** or **Test Call** then press **Enter.**

3. Input the other radio's MMSI Manually or select it from your Phone Book.

a) To manually enter the radio's MMSI;

i. Select 'Input Address' and press **Enter** (fig 15).

ii. Rotate the multi-function knob to select the number in the flashing digit position then press ▶ to move to the next digit.

iii. Repeat to enter all 9 digits of the MMSI number then press Enter.
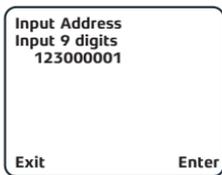
```
Input Address
Input 9 digits
  123000001



Exit                    Enter
```
Figure 15

b) To recall the radio's MMSI from the phone book;

i. Select 'From Phonebook' and press **Enter.**

ii. Select **Group List** if making a Group Call otherwise select **Buddy List** and press **Enter** (fig 16).

iii. Rotate the multi-function knob to select the desired name from the list then press **Enter** (fig 17).

```
Phone Book
  Buddy List
  Group List




Exit                    Enter
```
Figure 16
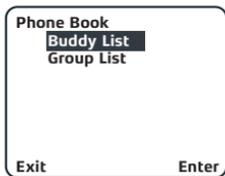
```
Buddy List
     Bluewave
     Seadog
     Seaspray



Exit                    Enter
```
Figure 17

4. Select the call type from Routine, Safety or Urgency (fig 18).

5. For Individual and Group Calls select a suitable channel from the list provided then press Enter (fig 19).

```
Individual Call
  Routine
  Safety
  Urgency



Exit                    Enter
```
Figure 18
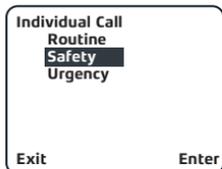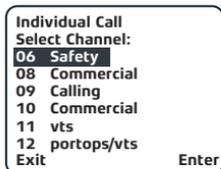
```
Individual Call
Select Channel:
  06  Safety
  08  Commercial
  09  Calling
  10  Commercial
  11  vts
  12  portops/vts
Exit                    Enter
```
Figure 19

6. A summary of your selected options are displayed. If everything is correct press Enter to call or Exit to cancel (fig 20).
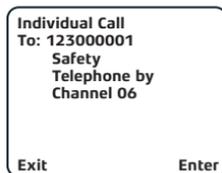
```
Individual Call
To: 123000001
     Safety
     Telephone by
     Channel 06


Exit                    Enter
```
Figure 20

All Ships Call

An All Ships Call allows your radio to establish contact with all the other ships in your area without needing to enter their MMSI. All Ships calls are classified as **ROUTINE, SAFETY** or **URGENCY**. URGENCY calls (similar to a PAN PAN call) may be sent when a vessel is not in immediate distress but has a problem that may lead to a distress situation. SAFETY calls (similar to SECURITY calls) may be sent when safety information needs to be transmitted to other vessels.

To send an All Ships Call;

1. Briefly press the CALL MENU key to enter the DSC menu.

2. Rotate the multi-function knob to select **All Ship Call** and press **Enter** (fig 21).

3. Select from **Routine, Safety** or **Urgency** and press **Enter** (fig 22).

4. Select the required channel (fig 23).

5. A summary of your selected call options is displayed. If everything is correct press **Call** to call or **Exit** to cancel.

```
DSC Menu
    Individual Call
    Position Request
    All Ship Call
    Group Call
    Test Call
    Recieve Call Log
    Send Call Log
Exit                        En-
```
Figure 21

```
All Ship Call
    Routine
    Safety
    Urgency
Exit                        En-
```
Figure 22

```
Individual Call
Select Channel:
01  port ops/vts
03  unauthorized
05  port ops/vts
06  inter ship
07  commercial
08  commercial
Exit                        En-
```
Figure 23

```
Recieved DSC
    Distress Call
    Undesignated
    From: 123456789
    GPS POS: Unknown
    Time: Unknown


Exit                     Enter
```
Figure 26
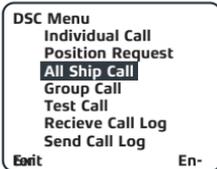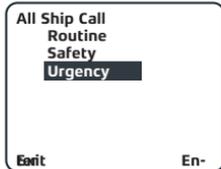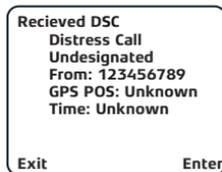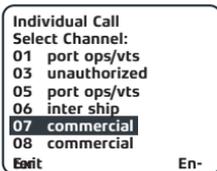
Receive Call Log

All incoming DSC calls are logged allowing you to review past messages. To review these messages;

1. Short press the **CALL MENU** key to access the DSC menu.

2. Rotate the multi-function knob to select **Receive Call Log** then press **Enter** (fig 24).

3. Rotate the multi-function knob to select the desired call from the list then press **Enter** (fig 25).

4. The selected call details will be displayed (fig 26).

5. Press **Delete** to delete the logged call or press **Exit** to return to the previous page.

```
DSC Menu
    Individual Call
    Position Request
    All Ship Call
    Group Call
    Test Call
    Recieve Call Log
    Send Call Log
Exit                        En-
```
Figure 24
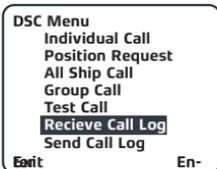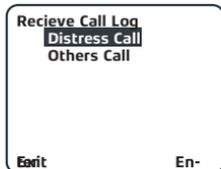
```
Recieve Call Log
    Distress Call
    Others Call



Exit                        En-
```
Figure 25

Send Call Log

All outgoing DSC calls are logged. To view your outgoing messages;

1. Briefly press the **CALL MENU** key to enter the DSC menu.

2. Rotate the multi-function knob to select **Send Call Log** and press **Enter** (fig 27).

3. Rotate the multi-function knob to select from **Distress Call, MOB Call** or **Others Call** then press **Enter** to display your outgoing calls (fig 28).

```
DSC Menu
    Individual Call
    Position Request
    All Ship Call
    Group Call
    Test Call
    Receive Call Log
    Send Call Log
Exit                     Enter
```
Figure 27
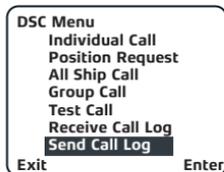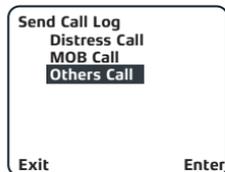
```
Send Call Log
    Distress Call
    MOB Call
    Others Call



Exit                     Enter
```
Figure 28

Phone Book

The Phone Book provides access to your stored MMSI's. Normal MMSI's for ships or coast stations can be stored in the Buddy List while Group MMSI's can be stored in the Group List.

To add an MMSI to your phone book

1. Briefly press the **CALL MENU** key to enter the DSC menu.

2. Rotate the multi-function knob to select **Phone Book** and press **Enter** (fig 29).

3. Select from **Buddy List** or **Group List** and press **Enter** (fig 30).

4. Select **New Entry** to add a new MMSI (or select **List** to see your current list of stored MMSI's) (fig 31).

5. Under **Input MMSI**, rotate the multi-function knob to select the number in the first digit position then press ▶ (fig 32).

6. Repeat step 5 to enter the full 9 digit MMSI number then press Enter.

7. Under Input Name, rotate the multi-function knob to select the character in the first name position then press ▶

8. Repeat step 7 to enter the name of the vessel then press **Enter** to save it (fig 33).
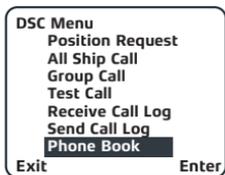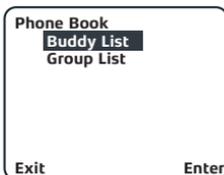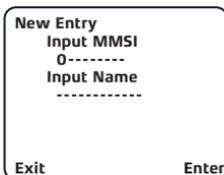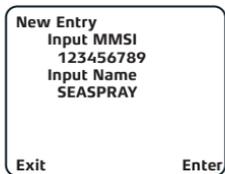
To View, Edit or List the saved MSSIs

1. Select **List** and press **Enter** (fig 34).

2. Select the required ship's name and press **Enter** (fig 35).

3. Select **View** to view the selected entry, **Edit** to change the entry or **Delete** to remove the entry from the Phone Book (fig 36).

```
Buddy List
   New Entry
   List



Exit              Enter
```
Figure 34

```
List
   SEASPRAY




Exit              Enter
```
Figure 35
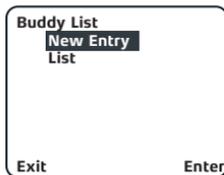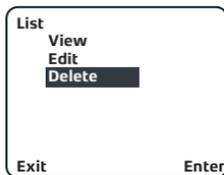
```
List
   View
   Edit
   Delete



Exit              Enter
```
Figure 36

DSC Setup

Use the DSC Setup menu to set the default operation of the DSC feature in your radio.

```
DSC Menu
   Position Input
   Auto Ch Change
   Position Reply
   Test Ack


Exit              Enter
```
Figure 37

```
DSC Menu
   Position Request
   All Ship Call
   Group Call
   Test Call
   Receive Call Log
   Send Call Log
   Phone Book
Exit              Enter
```
Figure 29

```
Phone Book
   Buddy List
   Group List




Exit              Enter
```
Figure 30

```
Buddy List
   New Entry
   List




Exit              Enter
```
Figure 31

```
New Entry
   Input MMSI
   0--------
   Input Name
   ------------



Exit              Enter
```
Figure 32

```
New Entry
   Input MMSI
   123456789
   Input Name
   SEASPRAY




Exit              Enter
```
Figure 33

DSC Setup

Use the DSC Setup menu to set the default operation of the DSC feature in your radio.
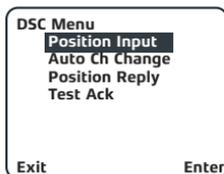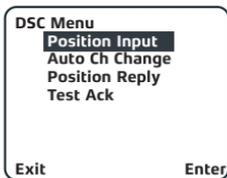
```
DSC Menu
   Position Input
   Auto Ch Change
   Position Reply
   Test Ack


Exit              Enter
```
Figure 38

Position Input

The Position Input allows you to manually enter a position in Latitude and Longitude and a time in UTC.

Auto Channel Change

The Auto Channel Change option will determine whether your radio will change channels automatically when requested by another radio. When set to **Automatic** the DSC system can guide to you a specific channel after receiving a DSC call. However, there may be times when this is not desirable, in which case set this feature to **Manual.**

IMPORTANT: IN AN EMERGENCY SITUATION YOU SHOULD SET THE AUTO CHANNEL CHANGE TO MANUAL. THIS WILL ENSURE THAT AN INCOMING DSC CALL CANNOT INADVERTANTLY SWITCH YOU AWAY FROM THE EMERGENCY CHANNEL AT THE WRONG TIME. Once the emergency is over, you can switch the feature back to Automatic if desired.

Position Reply

Position Reply determines whether your radio will respond automatically to a Position Request. If set to **Automatic**, your radio will automatically respond to a Position Request by transmitting your location back to the caller.

If you do not wish to allow other radios to request your position, set this option to **Manual.**

Test Ack

Test Acknowledge determines if your radio will respond automatically to a Test call. Test calls sent to a coast station or to another ship can be used to check if the DSC function on your radio is working correctly. If set to **Automatic**, a Test call that is sent to your User MMSI will cause your radio to automatically respond to the caller allowing them to confirm their radio is operating correctly.

To disable the Test Acknowledge feature, set this to **Manual.**

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.

NOTE: To use the **ATIS** function you will need to disable the **DSC** function. DSC and ATIS cannot operate together.

To disable DSC;

1. Select **DSC Operation** from the **Main Menu**, then select DSC Function.

2. Rotate the multi-function knob to select **Disable** then press **Enter.**

3. When asked **Are you sure?** select **Yes**.

4. Press **Exit** to return back to the main screen.

ATIS ID

The use of ATIS requires a unique 10 digit ATIS ID.

NOTE: The ATIS ID is completely separate to the DSC MMSI required for the DSC functionality). Radio operators in Europe who require the ATIS function should obtain their unique ATIS ID from their local Maritime Authority.

IMPORTANT: Once your ATIS ID has been programmed into the radio, the ID becomes a permanent part of the radio's operation. It cannot be cleared, disabled or changed by the user. If you need to change your ATIS ID (due to an entry error or after purchasing a second hand GX875), please contact GME to arrange for the ATIS ID to be reset.

Programming the ATIS ID

1. Select **ATIS Operation** from the Main Menu and

press **Enter** (fig 38).

2. Select **My ATIS ID** and press **Enter** (fig 39).
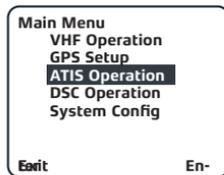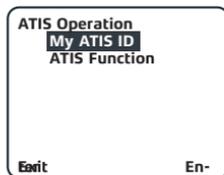
```
┌─────────────────────┐   ┌─────────────────────┐
│ Main Menu           │   │ ATIS Operation      │
│    VHF Operation    │   │    My ATIS ID       │
│    GPS Setup        │   │    ATIS Function    │
│    ATIS Operation   │   │                     │
│    DSC Operation    │   │                     │
│    System Config    │   │                     │
│                     │   │                     │
│ Exit            En- │   │ Exit            En- │
└─────────────────────┘   └─────────────────────┘
```
Figure 38   Figure 39

3. The first digit of the ATIS ID always starts with 9 and cannot be changed. Rotate the multi-function knob to select the desired number in the next character position then press ▶.

4. Repeat step 3 to enter the full 10 digit ATIS ID number.

5. Once all 10 digits have been entered, press **Enter**. You will then be asked to enter them again.

6. Repeat step 3 to re-enter the ATIS ID then press **Enter** to store or **Exit** to cancel without saving

Enable or Disable ATIS

To enable or disable the ATIS operation;

1. Select **ATIS Operation** from the Main Menu then select **ATIS Function.**

2. Select **Enable** or **Disable**. You will be asked **Are you sure?**

3. Select **Yes** or **No.**

4. Select **Exit** to return to the previous menu

When the ATIS Function is enabled, your ATIS ID will be attached to the end of your transmissions allowing your vessel to be identified whenever you transmit.

The Main Menu provides access to significant settings within the radio. To access the Main Menu long press the key. The following menu appears.

```
Main Menu
  VHF Operation
  GPS Setup
  ATIS Operation
  DSC Operation
  System Config


Exit            En-
```
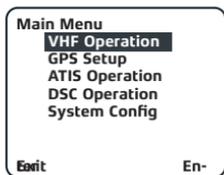
Figure 40

The table below lists the options available from the Main Menu.

MAIN MENU		
MENU ITEM	**SUB MENU**	**SETTINGS**
VHF Operation	Channel Band	Set USA, International or Canada band set
	Priority 2nd Channel	Set the 2nd Priority channel(also available via the ⬛ key.
GPS Setup	GPS Type	Choose between the US or Chinese (BeiDou) GPS systems (or use both)
	GPS Setting	Time Display: • Enable GPS Time on the LCD. Time Offset: • Set the UTC Time Offset. COG/SOG: • Display the Course across the Ground (COG) or Speed across the Ground (SOG). • Rotate the multi-function knob to display satellite reception status. Speed Unit: • Display speed in knots or km/h.
	GPS On/Off	Switch GPS On/Off.

MAIN MENU		
MENU ITEM	**SUB MENU**	**SETTINGS**
ATIS Operation	My ATIS ID	Input your personal ATIS MMSI ID.
	ATIS Function	Enable/Disable ATIS.
DSC Operation	My MMSI ID	Input your personal DSC MMSI ID.
	DSC Function	Enable/Disable DSC.
System Configuration	LCD Backlight	Set the backlight Brightness.
	Backlight Time	Set the Backlight Timeout.
	LCD Contrast	Set the LCD Contrast.
	Key Beep	Set Key Beep level: Off / Quiet / Middle / Loud.
	Torch Colour	Set the Torch Colour: White / Red.
	Version Info	Displays the GX875's current firmware and hardware Versions.
	Factory Reset	Enable/Disable. When enabled resets the settings to the factory default.

VHF OPERATION

Channel Band

The GX875 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:

1. From the Main Menu, select **VHF Operation / Channel Band Set.**

2. Choose **USA, INT or CAN** then press **Enter** to select.

3. Press **Exit** to return to the previous screen.

Priority 2nd 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 via a long press of the   key (see Priority Channel description earlier in this manual)

1. From the Main Menu, select **VHF Operation / Priority 2nd Channel.**

2. Select your desired channel then press **Enter.**

3. The channel you've selected will be displayed. Press **Enter** again to confirm.

4. Press Exit to return to the previous screen.

GPS SETUP

GPS Type

Select **GPS Type** to choose your preferred Global Positioning System. The GX875 supports both the US Global Positioning System (GPS) and the Chinese BeiDou, or BDS system.

- Select **GPS Only** to use only the US GPS system

- Select **BeiDou Only** to use only the Chinese BeiDou system.

- Select **GPS+BeiDou** to use both systems.

GPS Setting

- Select **Time Display** to display the time on the LCD. The time will be displayed whenever there is no GPS reception.

- Select **Time Offset** to set your local time offset from UTC. For example, in Sydney set the time offset to +10:00 (or +11:00 during daylight saving time).

A time offset of UTC 00:00 will cause the time to be displayed in UTC.

- Select **COG/SOG** to display your present GPS position, time, Course Over Ground (COG) and Speed Over Ground (SOG) (fig 41). While on the COG/SOG page, rotate the multi-function knob to switch to a sky view showing your current satellite reception status (fig 42).
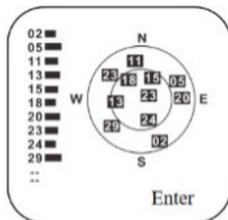
- Select Speed Unit to display the speed in knots or km/h.

GPS On/Off

Select **On** or **Off** to switch the GPS feature On or Off.

ATIS OPERATION

My ATIS ID

Select My ATIS ID to input your personal ATIS ID. See ATIS earlier in the manual for detailed instructions.

ATIS Function

Select ATIS Function to Enable or Disable the ATIS function in your radio.

Important: When disabled, your ATIS ID will not be attached to your transmission and your vessel will no longer be identifiable.

DSC OPERATION

My MMSI ID

Select **My MMSI ID** to input your personal DSC MMSI ID. See **My MMSI Setup** under **DSC MENU** earlier in this manual for detailed instructions.

DSC Function

Select DSC Function to **Enable** or **Disable** the DSC function in your radio. You will need to disable DSC when using ATIS.

IMPORTANT: When DSC is disabled you will not be able to make or receive DSC calls if an emergency arises.

SYSTEM CONFIGURATION

LCD Backlight

Adjusts the brightness of the LCD backlight from 0 (minimum) to 9 (maximum).

Backlight Time

Adjusts the length of time before the backlight switches off from 0 to 9 seconds.

LCD Contrast

Adjusts the LCD contrast from 0 (minimum) to 9 (maximum). Select a value that gives good clarity without causing the background to become dark.

Key Beep

Adjusts the loudness of the key beeps. Select between **Off, Quiet, Middle and Loud.**

Torch Colour

Toggles the torch colour from **Red** to **White.**

Version Info

Displays the radio's firmware and hardware versions.

Factory Reset

Resets the radio back to factory settings.

CHARGING THE BATTERY

Lift the tab on the lower end of the rubber flap below the DISTRESS button 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. When the battery is full the animation will stop and the 'battery full' icon will be displayed. For the fastest change, switch the radio off while charging.

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.

CH	TX Freq	RX Freq	Simplex	Use

	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

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		Public Correspondence (Marine Operator)
25	157.250	161.850		Public Correspondence (Marine Operator)
26	157.300	161.900		Public Correspondence (Marine Operator)
27	157.350	161.950		Public Correspondence (Marine Operator)
28	157.400	162.000		Public Correspondence (Marine Operator)

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		Public Correspondence (Marine Operator)
85	157.275	161.875		Public Correspondence (Marine Operator)
86	157.325	161.925		Public Correspondence (Marine Operator)
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

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.

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.

CANADIAN MARINE VHF CHANNELS AND FREQUENCIES cont.

WEATHER CHANNELS

CH	TX Freq	RX Freq						Use	Restrictions
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

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), DSC(16K0G2B)
Channel Spacing	25 kHz
Frequency Stability	±5 PPM
Digital Selectivity Calling (DSC)	Class "H"
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
Torch current	0.7 A
Charging current	1500 +/-200 mA
Antenna Socket	SMA (Male)
Display	Dot-Matrix 128*108, 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)

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: @3KHz:	 13.5 ~ -9.5 dB 3.0 ~ 7.0 dB 6.5 ~ +10.5 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

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
DSC(CH70) Sensitivity (1% BER): Intermediate frequency: Intermodulation rejection ratio: Adjacent channel selectivity:	≤ 0 dBµ (EMF) 1st 19.65 MHz, 2nd 450 kHz ≥ 68 (1% BER) ≥ 70 dB (1% BER)

General Standard

1. Floating & Flash
2. Waterproof: IPX8
3. Communication Range: Approximately 5 nautical miles @5watts line of sight
4. Build in Battery

Dimension & Weight

Type	Description
Dimension (L/W/H)	155 x 60 x 40 mm
Weight	287 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
gme.net.au
GME Pty Ltd