MARINE VHF RADIO

25 / 1-Watt Marine Radio

GX710D / GX720AD

INSTRUCTION MANUAL

CONTENTS

WARNING / SAFETY INFORMATION 3

OPERATOR QUALIFICATIONS 3

INTRODUCTION 3

MODEL DIFFERENCES 4

SUPPLIED WITH 4

INSTALLATION 5

Selecting a Location 5

Installing the Unit 5

DC Connections 6

Back Panel Power and Antenna Installation 6

FRONT AND BACK PANEL DESCRIPTION 7

Front Panel Functions and Operations 7

Back Panel Connections 10

MICROPHONE HANDSET FUNCTIONS 11

Microphone Functions and Operations 11

SCREEN FUNCTIONS 12

Liquid Crystal Display (LCD) Features 12

SETTING UP YOUR RADIO MENUS 13

Power Up Your Radio 13

MY MMSI ID Setup 13

GPS Setup 13

AIS Setup 15

ON-SCREEN MENU OPERATIONS 16

DSC Menu 16

AIS Menu (Only AIS VHF) 19

Main Menu 20

Distress Menu 23

SOFTWARE KEY AND KNOB FUNCTIONS 24

Selecting a Software Key function 24

Other Useful Functions 25

European-specific Operation 25

Programming ATIS ID 25

MUTE Feature for Internal Speaker 25

Power-on and Power-off Memory Function 25

NMEA2000 PGNS 26

N2K or AIS VHF NMEA2000 COMMUNICATION PGN ... 26

AIS VHF SEND NMEA2000 PGN 27

AIS VHF RECEIVE NMEA2000 PGN 27

SPECIFICATIONS 38

DIMENSION DIAGRAMS 40

Radio Case Dimensions 40

Microphone Dimensions 42

GME CONTRACT WARRANTY AGAINST DEFECTS . 44

WARNING / SAFETY INFORMATION

The GX710D / GX720AD are radio transmitting devices.

- When transmitting, keep any part of your head or body more than 20 cm from the antenna.
- Do not transmit near electrical blasting equipment or in explosive atmospheres.
- Do not allow children to operate a radio transmitter unsupervised.
- Always operate the radio in accordance with the instructions supplied.
- Always ensure an antenna is connected before transmitting to prevent possible damage to the radio.

OPERATOR QUALIFICATIONS

Most countries require operators of VHF marine radios to hold a valid certificate of proficiency, typically earned through a training course and examination. This ensures proper use of radio equipment and compliance with local regulations. Always check your local maritime authority for specific requirements.

As an example, In Australian a person should possess at least a Marine Radio Operators VHF Certificate of Proficiency (MROVCP). Alternatively, operators may obtain a Marine Radio Operators Certificate of Proficiency (MROCP), which covers the operation of both VHF and MF/HF equipment.

Many TAFEs and marine organisations offer courses leading to examination for the MROVCP and MROCP although such courses are not compulsory. Persons wishing to obtain the MROVCP or MROCP should first purchase a copy of the Maritime Radio Operator 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 Australian Communications and Media Authority (ACMA). The AMC can provide the details of organisations and individuals offering courses and or conducting exams.

For further information contact your local Maritime Authority.

INTRODUCTION

Congratulations. You have just purchased one of the most technically advanced VHF marine radios available.

The GX710D /GX720AD are professional marine VHF FM radios developed to meet international marine radio standards. Thes radios are designed to transmit and receive all VHF channels used by international vessels, such as those specified by the International Telecommunication Union (ITU).

The radios feature a built-in GPS receiver which provides location data for Digital Selective Calling (DSC) calls and displays your current position and time.

Both radios are IP67-rated employing high-quality materials, meeting or exceeding industry standards for providing reliable communication.

SPEC COMPARISON

Feature	GX710D	GX720AD
Power Output	25/1W	25/1W
Integrated GPS Receiver	x	x
US, CA, INT, Channels	x	x
DSC (Digital Select Calling)	x	x
Waterproof Speaker Mic	x	x
Compact Design	x	x
IP67 Ingress Protection	x	x
Dual & Triple Watch	x	x
NMEA 0183	x	x
NMEA 2000		x
AIS Receiver		x

SUPPLIED WITH

- Transceiver
- Mounting bracket
- Mounting hardware
- Hand microphone
- Microphone bracket
- DC power lead

NOTE: Your radio is designed for connection to negative earth electrical systems only.

Selecting a Location

It is advisable to carefully select a suitable location for installation of the radio and antenna. The radio can be mounted to a shelf or panel using the supplied bracket.

Keep the following points in mind when choosing a location:

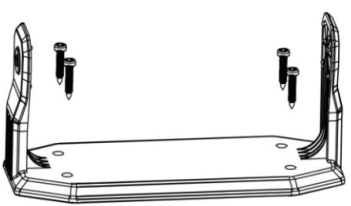
- The radio is designed to meet the IP67 standard which provides a high level of water ingress protection. We recommended you select a location that will minimize excessive exposure to continuous rain or spray
- Select a location that will not expose your radio to continuous direct sunlight which could cause overheating.
- Ensure the location allows a free flow of air around the heat sink on the back of the radio.
- Ensure the microphone and all controls are readily accessible.
- Ensure the loudspeaker is easily heard above the normal steering or driving position. An extension speaker can be installed if required.
- Components and currents in the radio create magnetic fields. To avoid interference to compasses, ships autopilot sensors etc., the Radio should be mounted at least 300 mm from such devices.
- Avoid a position where the radio may be subjected to high pressure water, such as pressure washers.

Installing the Unit

GIMBAL MOUNTING

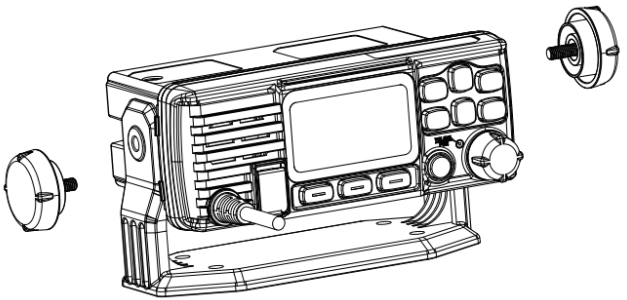
The mounting bracket can be rotated above or below the radio enabling the radio to be mounted to a wide range of locations.

1. Choose a suitable location within easy reach of other controls.
2. With the mounting bracket attached, hold the unit to the desired position and mark the location with a pencil. There will be four holes.
3. Remove the mounting bracket from the radio and drill the mounting holes using a 3/32 or 2.5mm drill
4. Bolt or screw the bracket in place using hardware suitable for the mounting surface. The unit is supplied with stainless steel screws; however, if the mounting surface is unsuitable for screws you may need to replace these with stainless steel bolts.



Remember, the fixings for overhead mounted units may have to withstand heavy pounding when a vessel is in rough water or being towed on a trailer over a rough road.

5. Mount the radio onto the bracket and attach the supplied mounting knobs through the hole on each side of the bracket to fix the base radio securely.



NOTE: The mounting bracket, mounting knobs and 4 screws (M4x20) are in the radio's package.

DC Connections

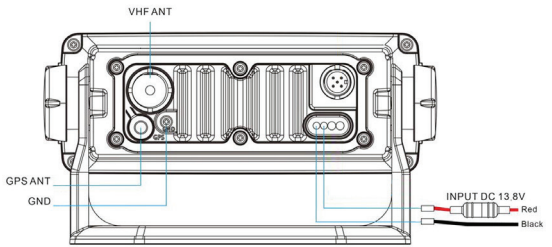
The radio requires 13.8 volts.

1. Connect the **RED** power lead to the Positive (+) side of the battery or to an accessory point in the vessel or vehicle's fuse box.
2. Connect the **BLACK** power lead to the Negative (-) side of the battery or to a ground point in your vessel or vehicle.

IMPORTANT: The **RED** power lead is fitted with a 10 Amp fuse. If the fuse blows, use only the same standard 10 Amp (3AG) fuse as a replacement. Use of a higher rated fuse or a slow-blow type could result in damage to your radio which would void the warranty.

Back Panel Power and Antenna Installation

The following diagram illustrates the back panel antenna and power connections. A full description of the front and back panel functions and connections is provided on the following pages.



ANTENNA INSTALLATION

It is essential to select a good quality, high efficiency, VHF Marine antenna. A poor-quality antenna or one not designed for the specific frequency band you are using will give very poor performance and may damage the radio.

GME have a range of suitable VHF Marine antennas to suit most installations and applications. We recommend you contact your local dealer for advice.

- Connect the VHF antenna's feedline cable to the rear antenna socket (SO239) using a PL259 coaxial connector.
- Connect the optional GPS antenna to the smaller GPS antenna socket located below the SO239 socket.
- Connect a lead from GND to the vessel's ground to prevent electrical shocks and reduce interference from other equipment. Use a stainless M3 x 6 screw (not supplied).

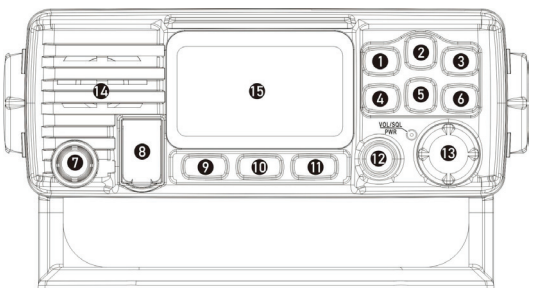
NOISE SUPPRESSION

The inherent design of VHF FM radios results in a high level of resistance to ignition and electrical interference. However, in some installations it may be necessary to take additional steps to help reduce or eliminate noise interference.

- Raise the Squelch control threshold to blank out low-level noise.
  NOTE: increasing the preset squelch level will require stronger signals to overcome the squelch and may result in missed calls from weaker signals. The optimum setting is the minimum one required to reliably keep the receiver quiet.
- During installation, try to route the DC battery leads, the antenna cable or any accessory wires away from the engine compartment, ignition or alternator wiring.
- If the noise continues, it may be necessary to fit a suppression kit. Contact your local marine dealer for more information.
- Similarly, if the interference you are experiencing is from other electronic equipment such as a depth sounder, try to keep the depth sounder's DC leads and transducer cable well away from your radio's wiring.
- It may be necessary to turn on one piece of equipment at a time to determine the sources of any electrical noise is coming from.

FRONT AND BACK PANEL DESCRIPTION

Front Panel Functions and Operations



1. CLEAR MENU Key

- At normal mode, long press to enter the menu setup.
- At menu mode, short press to return previous menu level.

2. CHANNEL UP Key

- At normal mode, short press to go up one channel; hold down on the key to quickly go up the channels.
- At menu mode, short press to navigate up the menu.

3. ENT AIS Key (GX720AD)

- At normal mode, short press to enter DSC menu.
- At menu mode, short press to enter next level menu.
- At normal mode, long press to enter AIS function (only AIS VHF).

4. SHIFT LEFT Key

- At normal mode, short press to enter the loop to select the software key function.
- At software key mode, short press the software key to shift left.

5. CHANNEL DOWN Key

- At normal mode, short press to go down one channel; hold on the key to quickly go down the channels.
- At menu mode, short press to turn down the menu.

6. SHIFT RIGHT Key

- At normal mode, short press to enter software key function.
- At software key mode, short press the software key to shift right.

7. STANDARD MICROPHONE HANDSET PTT

- Hold the microphone with the speaker facing you and press down the PTT button. The handset enters transmit mode.
- There are also convenient microphone function keys; please refer to the Microphone Handset Functions section.

8. DISTRESS Key

- Short press or long press to enter transmission DISTRESS mode.

9. KEY L (left)

- At normal mode, short press to enter software key mode.
- At software key mode, short press to select the left function.
- At menu mode, short press to return the previous menu.

10. KEY C (centre)

- At normal mode, short press to enter software key mode.
- At software key mode, short press to select the middle function.

11. KEY R (right)

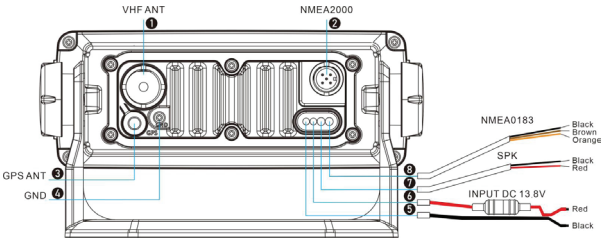
- At normal mode, short press to enter software key mode.
- At software key mode, short press to select the right function.
- At menu mode, short press to enter next level menu.

12. 16/C Priority Channel Key

- If not currently in the priority channel, short press **16/C** once to enter the priority channel, CH16. The screen displays **P-CH**.
- In **P-CH** mode, short press **16/C** again to exit the priority channel and return to normal mode.
- If not currently in the second priority channel, long press **16/C** once to access the second priority channel; the screen displays **P-2nd**. Short press **16/C** once to access the priority channel.

13. Power On/Off (Multi-Function Knob)

- To power on or off, long press **Power On/Off** to cycle power to your transceiver.
- To adjust volume, at normal mode rotate the multifunction knob clockwise or anticlockwise.
- To adjust the squelch level, at normal mode (or when adjusting the volume level mode), short press the multifunction knob to enter the **SQL** level adjustment mode and then press Up/Down, or rotate the multifunction knob clockwise/anticlockwise to select an appropriate squelch level.
- To change the channel, at the adjustment **SQL** level mode, short press the multifunction knob to enter the change channel mode. Press Up/Down or rotate clockwise/anticlockwise to change the channel.
- Press the multifunction knob to exit the change channel mode and return to normal mode.



1. VHF Antenna Socket (SO239)

- Connects to a marine VHF antenna cable's PL-259 connector.
  WARNING: Transmitting without an antenna will damage the transceiver and void your warranty

2. NMEA2000 (GX720AD)

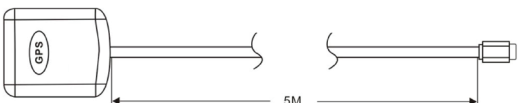
- The AIS and GPS position data from the external devices is sent through the NMEA2000 network.

3. NMEA0183

- GPS position data from the external devices is sent to the radio, through the NMEA0183 network.

4. GPS Antenna Socket

- Connects an optional GPS antenna. A diagram of an example GPS puck is shown below. Ensure you have enough cable to reach your radio.



NOTE:

- The GPS sentence packet input from this connector takes precedence over the sentence packet input from the built-in GPS receiver.
- Be sure the GPS antenna is positioned where it has a clear view to receive signals from satellites, typically outside the cabin.
- An optional plug and play GPS antenna can be connected directly to the transceiver's GPS antenna socket. 4. Ground Terminal

5. Ground Terminal

- Connects to the vessel's ground to prevent electrical shocks and interference from other equipment occurring. Use a PH M3 x 6 screw (not supplied).

6. DC Power Connector

- Connects to a DC power source. Input should be 13.8V.

7. Audio Out

- Connects to an external speaker. Red: Positive (+), Black: Negative (-).

Microphone Functions and Operations

1. PTT Button

- Press and hold the **PPT** button to transmit.

2. Speaker

3. Microphone opening

4. 5. UP/DOWN Keys

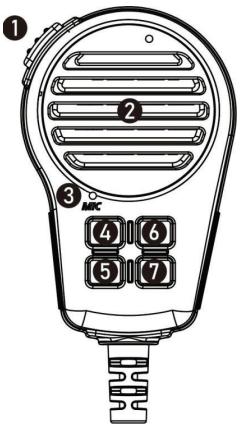
- Press UP to go up a channel.
- Press DOWN to go down a channel.

6. Channel 16 Key

- Short press to enter priority channel CH16.
- Long press to enter the second priority channel.

7. High/Low Power Key

- Short press to switch between high and low power.
- Long press for three seconds to lock the screen. The screen displays a lock icon. All keys are invalid except the PTT and DISTRESS keys.
- Long press and hold the **HI/LO LOCK** key again to release the key lock.



Liquid Crystal Display (LCD) Features

1. DSC is enabled

2. Unread message

3. Channel set indicator

4. Current channel display

5. Channel name

6. Ship GPS Date

7. Ship GPS time

8. Ship GPS Position

9. Volume level indicator

10. Squelch level indicator

11. First priority channel

12. RX (receive) carrier is received

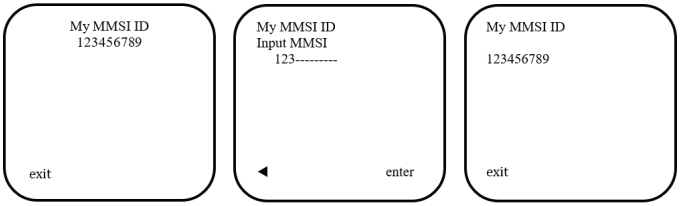
13. Power indicator
- 25W indicates transmission power is 25 watts.
- 1W indicates transmission power is one watt.

Power Up Your Radio

1. Ensure you have correctly installed your VHF transceiver and that the radio is correctly connected to a reliable 13.8v power supply source, and your antenna is correctly connected to the radio's SO239 socket.
2. Press the rotary power button to turn on VHF.
3. Use the rotary power button to adjust VOL, SQL, and channel.
   WARNING: Transmitting without an antenna will damage the transceiver.

MY MMSI ID Setup

1. Long press the **CLR/MENU** key to enter the Main Menu.
2. Select **DSC Operation** to enter **MY MMSI ID.**
3. Set up your related MMSI ID as shown below.



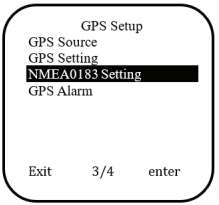
Input all numbers from the left to right, one by one, until all finished. Use the UP/DOWN buttons for choosing the number from 1 to 9. Once you have entered all nine digits, press **ENTER** to confirm.

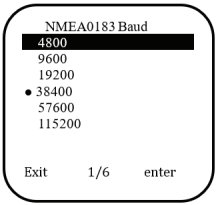
NOTE: You must enter your user **MMSI** before you can access the DSC functions. This is a once-only operation. You need to double-check and confirm the **MMSI ID** is correct. Once confirmed, your **MMSI ID** will be locked in the radio.

GPS Setup

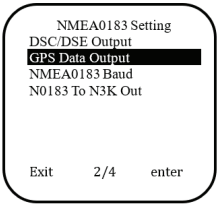
1. Long press the **CLR/MENU** key to enter the **GPS Setup** item for setup as follows:

2. If connected to the GPS source of NMEA 0183, select **NNME0183**.
3. The GPS Setup **NMEA 0183** is connected as follows:
   Connect the **NMEA0183** cable to the transceiver.
4. Select the data transfer rate in **GPS Setup**.

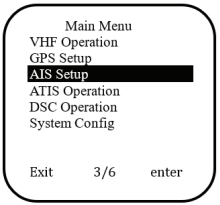


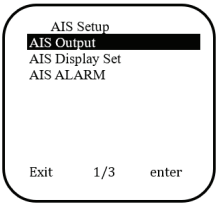


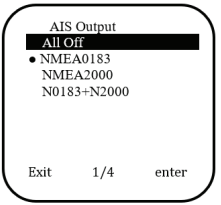
5. Check that the GPS location is displayed on the VHF home screen.
6. When **GPS Data Output** in the menu is set to **Enable**, the received GPS data will be output via NMEA0183 as follows:

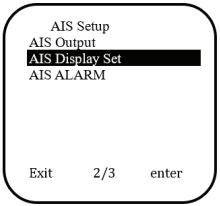


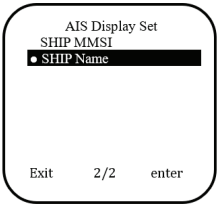
The following screens show the AIS (only AIS VHF) configurations.

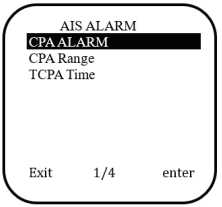


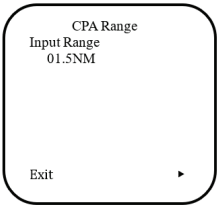


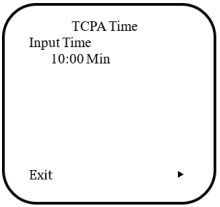












DSC Menu

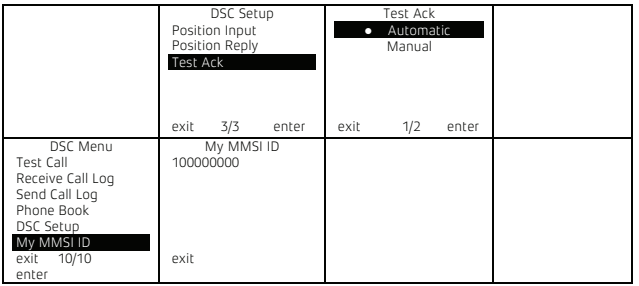
The following screens describe the DSC (Digital Selective Calling) menu options.

- At normal mode, short press to enter the DSC Menu to operate.

DSC Menu **Individual Call** Position Request All Ship Call Group Call Test Call Receive Call Log exit 1/10 enter	Individual Call **Input Address** From Phone book exit 1/2 enter	Input Address Input 9 digits 123------ ◀ ▶	Individual Call Routine exit 1/1 enter
	Individual Call **Input Address** From Phone book exit 2/2 enter	Buddy List **4** 1/1	Individual Call **Routine** exit 1/1 enter
DSC Menu **Individual Call** Position Request All Ship Call Group Call Test Call Receive Call Log exit 2/10 enter	Position Request **Input Address** From Phone book exit 1/2 enter	Input Address Input 9 digits 123------ ◀ ▶	Position Request TO:123------ Safety exit call
	Position Request Input Address **From Phone book** exit 2/2 enter	Buddy List **4** 1/1	Position Request TO:400000004 4 Safety exit call
DSC Menu Individual Call Position Request **All Ship Call** Group Call Test Call Receive Call Log exit 3/10 enter	All Ship Call **Safety** Urgency exit 1/2 enter	Safety Select Channel: **0016 distress** 0017 sar 0018 port ops 0019 commercial 1019 commercial exit enter	All Ship Call TO: All Ship Safety Telephone by Channel 0016 exit call
	All Ship Call Safety Urgency exit 2/2 enter	Urgency Select Channel: **0016 distress** 0017 sar 0018 port ops 0019 commercial 1019 commercial exit enter	All Ship Call TO: All Ship Urgency Telephone by Channel 0016 exit call

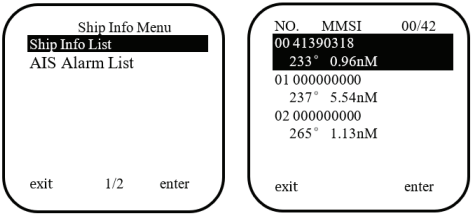
DSC Menu Individual Call Position Request All Ship Call **Group Call** Test Call Receive Call Log exit 4/10 enter	Group Call **Input Address** From Phone book exit 1/2 enter	Input Address Input 8 digits 0123-----	Input Address Input 8 digits 012345678
	Group Call Input Address **From Phone book** exit 2/2 enter		
DSC Menu Individual Call Position Request All Ship Call Group Call **Test Call** Receive Call Log exit 5/10 enter	Test Call **Input Address** From Phone book exit 1/2 enter	Input Address Input 9 digits 123------	Test Call TO:123------ Safety exit call
	Test Call Input Address **From Phonebook** exit 2/2 enter		
DSC Menu Individual Call Position Request All Ship Call Group Call Test Call **Receive Call Log** exit 6/10 enter	Receive Call Log **Distress Call** Others Call exit 1/2 enter	Distress Call **Distress alert** Distress alert Distress alert Distress cancel Distress alert Distress alert 1/50	Received DSC Distress call Undesignated From:100000000 22° 36.0560' N 113° 51.6467' E 08:57 UTC exit delete
	Receive Call Log Distress Call **Others Call** exit 2/2 enter	Others Call **All ships call** All ships call All ships call All ships call 1/4	Received DSC All ships call Safety From:000000002 Channel 0016 Is requested. exit delete
DSC Menu Position Request All Ship Call Group Call Test Call Receive Call Log **Send Call Log** exit 7/10 enter	Send Call Log **Distress Call** MOB Call Others Call exit 1/3 enter		

	Send Call Log Distress Call MOB Call Others Call exit 2/3 enter		
	Send Call Log Distress Call MOB Call Others Call exit 3/3 enter		
DSC Menu All Ship Call Group Call Test Call Receive Call Log Send Call Log Phone Book exit 8/10 enter	Phone Book Buddy List Group List exit 1/2 enter	Buddy List New Entry List exit 1/2 enter	New Entry Input MMSI 0-------- Input Name ---------- exit
	Phone Book Buddy List Group List exit 2/2 enter	Group List New Entry List exit 1/2 enter	New Entry Input MMSI 00------- Input Name ---------- exit
DSC Menu Group Call Test Call Receive Call Log Send Call Log Phone Book DSC Setup exit 9/10 enter	DSC Setup Position Input Position Reply Test Ack exit 1/3 enter	Position Input input Position °--. ----'N ---°--°----'E Input UTC Time --:-- UTC exit	
	DSC Setup Position Input Position Reply Test Ack exit 2/3 enter	Position Reply ● Automatic Manual exit 1/2 enter	
	DSC Setup Position Input Position Reply Test Ack exit 3/3 enter	Test Ack ● Automatic Manual exit 1/2 enter	

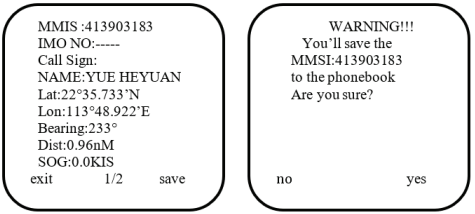


AIS Menu (Only AIS VHF)

1. Long press the ENT/AIS key to enter AIS interface.
2. The Ship Info list is displayed. It indicates the information about the received ship. When the ship information is received, press enter to check the information list.



3. AIS Alarm List is a list of alarms received from ships. Press the up ▲ or down ▼ key or turn the knob to check and select the boat information.
4. Press the **EXIT** key to return to the previous page, and then press **ENTER** to check the detailed ship information.
5. Press the **EXIT** key to return to the previous page, and then press **SAVE** to enter the prompt screen for saving the MMSI into the phonebook.
6. Press the **NO** key to return to the previous page, and then press **YES** to save MMSI into phonebook.



Long press the **CLR/MENU** key to enter display the Main Menu item. Setup is detailed below.

Main Menu **VHF Operation** GPS Setup AIS Setup ATIS Operation DSC Operation System config exit 1/6 enter	VHF Operation **Channel Band Set** Priority 2nd Ch exit 1/2 enter	Channel Band Set **USA** • INT CAN exit 1/3 enter	
	VHF Operation Channel Band Set **Priority 2nd Ch** exit 1/2 enter	Priority 2nd Ch Select Channel: 0016 distress 0017 sar 0018 port ops 0019 commercial 1019 commercial exit enter	Priority 2nd Ch New Priority Second Channel 0016 distress exit enter
Main Menu VHF Operation **GPS Setup** AIS Setup ATIS Operation DSC Operation System config exit 2/6 enter	GPS Setup **GPS Source** GPS Setting NMEA0183 Setting GPS Alarm exit 1/4 enter	GPS Source **• built-in GPS** NMEA0183 NMEA2000 exit 1/3 enter	
	GPS Setup GPS Source **GPS Setting** NMEA0183 Setting GPS Alarm exit 2/4 enter	GPS Setting **Time Display** Time off set COG/SOG Display Speed Unit exit 1/4 enter	Time Display **Disable** • Enable exit 1/2 enter

	GPS Setup GPS Source GPS Setting **NMEA0183 Setting** GPS Alarm exit 3/4 enter	NMEA0183 Setting **DSC/DSE Output** GPS Data Output NMEA0183 Baud N0183 To N2K Out exit 1/4 enter	DSC/DSE Output **Disable** ● Enable exit 1/2 enter
	GPS Setup GPS Source GPS Setting NMEA0183 Setting **GPS Alarm** exit 4/4 enter	GPS Alarm **On** ●Off exit 1/2 enter	
Main Menu VHF Operation GPS Setup **AIS Setup** ATIS Operation DSC Operation System config exit 3/6 enter	AIS Setup **AIS Output** AIS Display Set AIS Alarm exit 1/3 enter	AIS Output **All Off** ●NMEA0183 NMEA2000 N0183+N2000 exit 1/4 enter	
	AIS Setup AIS Output **AIS Display Set** AIS Alarm exit 2/3 enter	AIS Display Set **● SHIP MMSI** SHIP Name exit 1/2 enter	
	AIS Setup AIS Output AIS Display Set **AIS ALARM** exit 3/3 enter	AIS ALARM **CPA ALARM** CPA Range TCPA Time exit 1/3 enter	CPA ALARM **● Disable** Enable exit 1/2 enter
Main Menu VHF Operation GPS Setup AIS Setup **ATIS Operation** DSC Operation System config exit 4/6 enter	ATIS Operation **My ATIS ID** ATIS Function exit 1/2 enter	My ATIS ID Input ATIS ID 90-------- exit ▶	
	ATIS Operation My ATIS ID **ATIS Function** exit 2/2 enter	ATIS Function **● Disable** Enable exit 1/2 enter	

Main Menu VHF Operation GPS Setup AIS Setup ATIS Operation **DSC Operation** System config exit 5/6 enter	DSC Operation **My MMSI ID** DSC Function exit 1/2 enter		
	DSC Operation My MMSI ID **DSC Function** exit 2/2 enter	DSC Function Disable **● Enable** exit 1/2 enter	
Main Menu VHF Operation GPS Setup AIS Setup ATIS Operation DSC Operation **System config** exit 6/6 enter	System Config **LCD Contrast** Key Beep Dimmer Version Info Factory Reset Language Select exit 1/6 enter	LCD Contrast Contrast:4 exit enter	
	System Config LCD Contrast **Key Beep** Dimmer Version Info Factory Reset Language Select exit 2/6 enter	Key Beep Off **●Quiet** Middle Loud exit 2/4 enter	
	System Config LCD Contrast Key Beep **Dimmer** Version Info Factory Reset Language Select exit 3/6 enter	Dimmer Back Light:5 exit enter	
	System Config LCD Contrast Key Beep Dimmer **Version Info** Factory Reset Language Select exit 4/6 enter	Version Info PCBA Ver: xxxx Boot Loader: xxxx Main SW: xxxx Clone SW: xxxx exit	

	System Config LCD Contrast Key Beep Dimmer Version Info **Factory Reset** Language Select exit 5/6 enter	Factory Reset **Enable** exit 1/1 enter	
	System Config LCD Contrast Key Beep Dimmer Version Info Factory Reset **Language Select** exit 6/6 enter	Language Select ● English François Español exit 1/3 enter	

Distress Menu

1. Lift the **DISTRESS** red cover and press the **DISTRESS** key. The Distress Menu will be displayed on LCD.
2. Choose one distress item, for example, Collision and then press and hold for more than three seconds. A collision

- You can also choose to resend, pause or exit after the message is sent.

SOFTWARE KEY AND KNOB FUNCTIONS

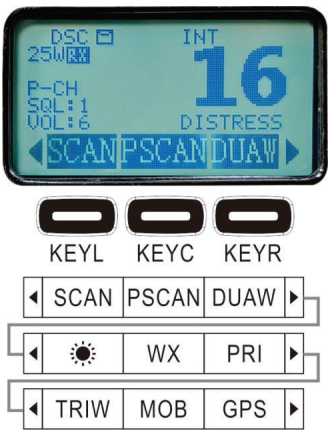
Various often-used functions are assigned to the Software Keys for easy access. The functions' icons are displayed above Software Keys, as shown below.

• Keys are selected in normal mode. These are ◄◄KEYL, KEYC, or KEYR as shown below,

Selecting a Software Key function

Press ◄ or ► to slide through the selectable functions that are assigned to the Software Keys.

Press **KEYL**, **KEYC**, or **KEYR** to enter the function.



SCAN	Monitor all working channels.
CH1-CH2-CH3-...-CH88	When a signal is detected, the scan pauses until the signal disappears.
PSCAN	CH1-CH16-CH2-CH16-CH3-CH16-.....CH88-CH16-L1-CH16-
DUAW	Monitor the current channel and CH16 in cycle.
☀	Any key press will turn on the backlight (if backlit setting is ON) except the PTT key. The backlit will remain on for five seconds if no keys pressed. The time out will be reset if any key is pressed within the time frame.
WX	Enter WX channels.
PRI	Enter private channel. If there is no private channel, a warning message will appear.
TRIW	Monitor CH16, current channel and one programmed channel in cycle.
MOB	Enter the Man Overboard (MOB) Distress Broadcast interface.
GPS	Enter to display GPS.

Other Useful Functions

TX Time Out

Transmission automatically stops after the **PTT** key has been held down for over five consecutive minutes. That is, the transmit mode will revert to receive mode.

Once the **PTT** key is released, the TX time out timer will be reset. The **PTT** key will then function normally.

TX Indicator

When the radio is transmitting, the **TX** icon will be illuminated.

RX Indicator

When the VHF receives a signal, the **RX** icon will be illuminated.

European-specific Operation

Most of the radio functions are the same as American (US). Only some features work differently.

Programming ATIS ID

The ATIS feature is only available in European models. Therefore, it only works when tuned to the International Frequency Group. The ATIS function is always enabled when the ATIS ID is written to the radio by pressing a key or cloning software. Users cannot disable it.

In order to enable a user to input ATIS ID into the radio using the key, the checkbox next to the user's ATIS input items on the cloning software must be checked.

MUTE Feature for Internal Speaker

When the crew is resting inside, you can choose to operate only the external speaker by turning ON the MUTE feature. The internal speaker will have no sound when the MUTE feature works normally so as not to disturb the crew.

This feature is enabled or disabled in the VHF menu.

Power-on and Power-off Memory Function

Your transceiver will remember it's on/off state in case of a sudden power outage; when power is restored, the VHF RADIO will return to its previous on or off state.

NMEA2000 PGNS

The following tables provide NMEA2000 Parameter Group Number (PGN) lists for N2K or AIS VHF, AIS VHF SEND and AIS VHF RECEIVE.

N2K or AIS VHF NMEA2000 COMMUNICATION PGN

Number	Description
59392	ISO acknowledgement
60928	ISO Address Claim
126208	NMEA request/command/acknowledge Group function
126464	PGN List
126720	Fast data packet, multi-frame, proprietary PGN
126996	Product information
129799	Radio frequency/Mode/power
129025	Position, rapid update
129026	COG/SOG Rapid update
129033	Time & date update
129038	Class A position report (Rx, Tx) note: ais msg 1/2/3
129039	Class B position report (Rx, Tx) note: ais msg 18
129040	Class B ext-position report (Rx, Tx) note: ais msg 19
129793	UTC and date report (Tx) note: ais msg 4/11
129794	Class A static and voyage related data (Rx, Tx) note: ais msg 5
129801	Addressed safety msg (Rx, Tx) note: ais msg 12
129802	Broadcast safety msg (Rx, Tx) note: ais msg 14
129808	DSC call information
129809	AIS Class B 'CS' Static Data Report, Part A note: ais msg 24A
129810	AIS Class B 'CS' Static Data Report, Part B note: ais msg 24B

AIS VHF SEND NMEA2000 PGN

Number	Description
59392	ISO acknowledgement
60928	ISO Address Claim
126208	NMEA request/command/acknowledge Group function
126464	PGN List
126720	Fast data packet, multi-frame, proprietary PGN
126996	Product information
129025	Position, rapid update
129026	COG/SOG Rapid update
129033	Time & date update
129799	Radio frequency/Mode/power
129808	DSC call information

AIS VHF RECEIVE NMEA2000 PGN

Number	Description
59392	ISO acknowledgement
59904	ISO request
60928	ISO Address Claim
126208	NMEA request/command/acknowledge Group function
126464	PGN List
129026	COG/SOG Rapid update
129029	GNSS Position data

INTERNATIONAL MARINE VHF CHANNEL AND FREQUENCIES				
CH	**TX Freq**	**RX Freq**	**Simplex**	**Use**
6	156.3	156.3	x	Inter-ship [1]
8	156.4	156.4	x	Inter-ship
9	156.45	156.45	x	Public Correspondence, Port Operations and Ship Movement
10	156.5	156.5	x	Public Correspondence, Port Operations and Ship Movement [2]
11	156.55	156.55	x	Port Operations and Ship Movement
12	156.6	156.6	x	Port Operations and Ship Movement
13	156.65	156.65	x	Inter-ship Safety, Port Operations and Ship Movement [3]
14	156.7	156.7	x	Port Operations and Ship Movement
15	156.75	156.75	x	Inter-ship and On-board Communications at 1W only [4]
16	156.8	156.8	x	Distress, Safety and Calling
17	156.85	156.85	x	Inter-ship and On-board Communications at 1W only [4]
1019	156.95	156.95	x	Public Correspondence, Port Operations and Ship Movement
2019	161.55	161.55		Public Correspondence, Port Operations and Ship Movement
1020	157	157	x	Public Correspondence, Port Operations and Ship Movement
2020	RX Only	161.6		Public Correspondence, Port Operations and Ship Movement
1027	157.35	157.35	x	Channel is divided into 2027 (Licenced analogue communication) and 2028 (Analogue communication forbidden)
1028	157.4	157.4	x	
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
77	156.875	156.875	x	Inter-ship
1078	156.925	156.925	x	Public Correspondence, Port Operations and Ship Movement
2078	RX Only	161.525	x	Public Correspondence, Port Operations and Ship Movement
1079	156.975	156.975	x	Public Correspondence, Port Operations and Ship Movement
2079	RX Only	161.575		Public Correspondence, Port Operations and Ship Movement
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**
1001	156.05	156.05	X	Port Operations and Commercial, VTS. Available only in New Orleans / Lower Mississippi area.
1005	156.25	156.25	X	Port Operations or VTS in the Houston, New Orleans and Seattle areas
6	156.3	156.3	X	Intership Safety
1007	156.35	156.35	X	Commercial
8	156.4	156.4	X	Commercial (Intership only)
9	156.45	156.45	X	Boater Calling. Commercial and Non-Commercial
10	156.5	156.5	X	Commercial
11	156.55	156.55	X	Commercial. VTS in selected areas
12	156.6	156.6	X	Port Operations. VTS in selected areas
13	156.65	156.65	X	Intership Navigation Safety (Bridge-to-bridge). Ships >20m length
14	156.7	156.7	X	Port Operations. VTS in selected areas
15	--	156.75		Environmental (Receive only). Used by Class C EPIRBs
15	RX Only	156.75	X	Inter-ship and On-board Communications at 1W only
16	156.8	156.8	X	International Distress, Safety and Calling. Ships required to carry radio, USCG, and most coast stations maintain a listening watch
17	156.85	156.85	X	State & local govt maritime control
1018	156.9	156.9	X	Commercial
1019	156.95	156.95	X	Commercial
20	157	161.6		Port Operations (duplex)
1020	157	157	X	Port Operations
1021	157.05	157.05	X	U.S. Coast Guard only
1022	157.1	157.1	X	Coast Guard Liaison and Maritime Safety Information Broadcasts.
1023	157.15	157.15	X	U.S. Coast Guard only
24	157.2	161.8		Digital – Channel is blocked for analogue communication
25	157.25	161.85		Digital – Channel is blocked for analogue communication
26	157.3	161.9		Satellite – Channel is blocked for analogue communication
27	157.35	161.95		Channel is divided into 2027 (Licenced analogue communication) and 2028 (Analogue communication forbidden)

U.S. MARINE VHF CHANNELS AND FREQUENCIES cont.				
CH	**TX Freq**	**RX Freq**	**Simplex**	**Use**
27	157.35	161.95		
28	157.4	162		Channel is divided into 2027 (Licenced analogue communication) and 2028 (Analogue communication forbidden)
1063	156.175	156.175	X	Port Operations and Commercial, VTS. Available only in New Orleans / Lower Mississippi area.
1065	156.275	156.275	X	Port Operations
1066	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
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)
1078	156.925	156.925	X	Non-Commercial
1079	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
1080	157.025	157.025	X	
1081	157.075	157.075	X	U.S. Government only - Environmental protection operations.
1082	157.125	157.125	X	U.S. Government only
1083	157.175	157.175	X	U.S. Coast Guard only
84	157.225	161.825		Digital – Channel is blocked for analogue communication
85	157.275	161.875		Digital – Channel is blocked for analogue communication
86	157.325	161.925		Satellite – Channel is blocked for analogue communication
2086	161.925	161.925	X	
87	157.375	157.375	X	Public Correspondence (Marine Operator)
88	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**	**Simplex**	**Use**
1	156.05	160.65		PC Public Correspondence
2	156.1	160.7		PC Public Correspondence
3	156.15	160.75		PC Public Correspondence
1004	156.2	156.2	x	PC Inter-ship, Ship/Shore and Safety: Canadian Coast Guard S&R
1005	156.25	156.25	x	Ship Movement
6	156.3	156.3	x	All areas Inter-ship, Commercial, Non-commercial and Safety: May Be used for search and rescue communications between ships and aircraft.
1007	156.35	156.35	x	All areas Inter-ship, Ship/Shore, Commercial
8	156.4	156.4	x	WC, EC Inter ship, Commercial and Safety: Also assigned for operations in the Lake Winnipeg area.
9	156.45	156.45	x	AC Inter-ship, Ship/Shore, Commercial, Non-commercial and Ship Movement: May be used to communicate with aircraft and Helicopters in predominantly maritime support operations.
10	156.5	156.5	x	AC, GL Inter-ship, Ship/Shore, Commercial, Non-commercial, Safety and Ship Movement: May also be used for communications with aircraft engaged in coordinated search and rescue and antipollution operations.
11	156.55	156.55	x	PC, AC, GL Inter-ship, Ship/Shore, Commercial, Non-commercial and Ship Movement: Also used for pilotage purposes.
12	156.6	156.6	x	WC, AC, GL Inter-ship, Ship/Shore, Commercial, Non-commercial and Ship Movement: Port operations and pilot information and messages.
13	156.65	156.65	x	All areas Inter-ship, Commercial, Non-commercial and Ship Movement: Exclusively for bridge-to-bridge navigational traffic. Limited to 1-watt maximum power.
14	156.7	156.7	x	AC, GL Inter-ship, Ship/Shore, Commercial, Non-commercial and Ship Movement: Port operations and pilot information and Messages.
15	156.75	156.75	x	All areas Inter-ship, Ship/Shore, Commercial, Non-commercial and Ship Movement: All May also be used for on-board Communications.
15	156.75	156.75	x	Inter-ship and On-board Communications at 1W only [4]
16	156.8	156.8	x	All areas International Distress, Safety and Calling.
17	156.85	156.85	x	All areas Inter-ship, Ship/Shore, Commercial, Non-commercial and Ship Movement: All operations limited to 1-watt maximum power. May also be used for on-board Communications.
17	156.85	156.85	x	Inter-ship and On-board Communications at 1W only [4]
1018	156.9	156.9	x	All areas Inter-ship, Ship/Shore and Commercial: Towing on the Pacific Coast.

CANADIAN MARINE VHF CHANNELS AND FREQUENCIES				
CH	**TX Freq**	**RX Freq**	**Simplex**	**Use**
1019	156.95	156.95	x	All areas except PC Inter-ship and Ship/Shore: Canadian Coast Guard only.
20	157	161.6		All areas Ship/Shore, Safety and Ship Movement: Port operation
1021	157.05	157.05	x	All areas Inter-ship and Ship/Shore: Canadian Coast Guard only.
2021	RX Only	161.65		All areas Safety: Continuous Marine Broadcast (CMB) service.
1022	157.1	157.1	x	All areas Inter-ship, Ship/Shore, Commercial and Non-commercial: For communications between Canadian Coast Guard and non-Canadian Coast Guard stations only.
23	157.15	161.75		PC Ship/Shore and Public Correspondence: Also in the inland waters of British Columbia and the Yukon.
2023	RX Only	161.75		
24	157.2	161.8		PC Public Correspondence
25	157.25	161.85		PC Public Correspondence
2025	RX Only	161.85		PC Public Correspondence
26	157.3	161.9		PC Public Correspondence
27	157.35	161.95		PC Public Correspondence
28	157.4	162		PC Public Correspondence
60	156.025	160.625		PC Ship/Shore and Public Correspondence.
1061	156.075	156.075	x	EC Inter-ship, Ship/Shore and Commercial: Commercial fishing only.
1061	156.75	156.075	x	
1062	156.125	156.125	x	EC Inter-ship, Ship/Shore and Commercial: Commercial fishing only.
1063	156.175	156.175	x	Tow Boats - BCC area
1063	156.175	156.175	x	
64	156.225	160.825	x	PC Ship/Shore and Public Correspondence
1064	156.225	156.225	x	EC Inter-ship, Ship/Shore and Commercial: Commercial fishing only.
1065	156.275	156.275	x	Inter-ship, Ship/Shore, Commercial, Non-commercial, Safety: Search & rescue and antipollution operations on the Great Lakes. Towing on the Pacific Coast. Port operations only in the St. Lawrence River areas with 1W maximum power. Pleasure craft in the inland waters of Alberta, Saskatchewan and Manitoba (excluding Lake Winnipeg and the Red River).
1066	156.325	156.325	x	Inter-ship, Ship/Shore, Commercial, Non-commercial, Safety and Ship Movement:Port operations only in the St.Lawrence River/Great Lakes Areas with 1-watt maximum power.

CANADIAN MARINE VHF CHANNELS AND FREQUENCIES				
CH	**TX Freq**	**RX Freq**	**Simplex**	**Use**
67	156.375	156.375	x	All areas except EC Inter-ship, Ship/Shore, Commercial, Non-commercial, Safety:May also be used for communications with aircraft engaged in coordinated search and rescue and antipollution operations.
68	156.425	156.425	x	All areas Inter-ship, Ship/Shore and Non-commercial: For marinas and yacht clubs.
69	156.475	156.475	x	All areas except EC Inter-ship, Ship/Shore, Commercial and Non-commercial
71	156.575	156.575	x	PC Inter-ship, Ship/Shore, Commercial, Non-commercial, Safety and Ship Movement the East Coast and on Lake Winnipeg.
72	156.625	156.625	x	EC, PC Inter-ship, Commercial and Non-commercial: May be used to communicate with aircraft and helicopters in predominantly maritime support
73	156.675	156.675	x	All areas except EC Inter-ship, Ship/Shore, Commercial, Non-commercial, Safety:May also be used for communications with aircraft engaged in coordinated search and rescue and antipollution operations.
74	156.725	156.725	x	EC, PC Inter-ship, Ship/Shore, Commercial, Non-commercial and Ship Movement.
75	156.775	156.775	x	Simplex port operation, Ship movement and navigation related communication only. 1 watt maximum
76	156.825	156.825	x	Simplex port operation, Ship movement and navigation related communication only.1 watt maximum
77	156.875	156.875	x	Inter-ship, Ship/Shore, Safety and Ship Movement: Pilotage on Pacific Coast. Port operations only in the St. Lawrence River/Great Lakes areas with 1W maximum power.
1078	156.925	156.925	x	EC, PC Inter-ship, Ship/Shore and Commercial
1078	156.925	156.925	x	
1079	156.975	156.975	x	EC, PC Inter-ship, Ship/Shore and Commercial
1080	157.025	157.025	x	EC, PC Inter-ship, Ship/Shore and Commercial
1080	157.025	157.025	x	
1081	157.075	157.075	x	Inter-ship and Ship/Shore: Canadian Coast Guard use only in the St. Lawrence River/ Great Lakes areas.
1082	157.125	157.125	x	Inter-ship and Ship/Shore: Canadian Coast Guard use only in the St. Lawrence River/ Great Lakes areas.
1083	157.175	157.175	x	EC Inter-ship and Ship/Shore: Canadian Coast Guard and other Government agencies.
2083	RX Only	161.775		AC, GL Safety: Continuous Marine Broadcast (CMB) Service.
84	157.225	161.825		Non-Commercial
85	157.275	161.875		Non-Commercial

CANADIAN MARINE VHF CHANNELS AND FREQUENCIES				
CH	**TX Freq**	**RX Freq**	**Simplex**	**Use**
86	157.325	161.925		Non-Commercial
87	157.375	157.375	x	AC, GL, NL Ship/Shore and Public Correspondence
88	157.425	157.425	x	AC, GL, NL Ship/Shore and Public Correspondence

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

SPECIFICATIONS

General

Type	Description
Transmit frequency 156.025 – 157.55MHz	156.025 – 157.425MHz
Receive frequency 156.300 – 162.15MHz	156.300 – 162.025MHz
Digital Selectivity Calling (DSC)	Class D with dual receiver (individual CH70)
CH70	156.525MHz
Channel spacing	25kHz
Modulation mode	FM (16K0G3E), DSC/ATIS (16K0G2B)
Frequency stability	±5 ppm
Compass safe distance	1.0m
DSC Buddy List	25/50/100
Antenna impedance	50Ω (nominal)
Power supply	13.8v DC

Receiver

Type	Description
Receive system	Double-conversion superheterodyne
Intermediate frequency	1st 38.85 MHz, 2nd 450 kHz
Sensitivity @ 12dB SINAD	≤ +6dBμV (e.m.f)
Squelch sensitivity	≤ +6dBμV (e.m.f)
Spurious response/rejection	≥70 dB
Adjacent channel rejection	≥70 dB
Intermodulation	≥68 dB
Audio frequency response +1 dB to –3 dB of 6 dB Octave from	+1 dB to –3 dB of 6 dB Octave from 300–3000Hz
Audio output power	10W @ 4Ω
Audio distortion	≤ 5%
AIS Receiver	Dual channels

SPECIFICATIONS

Transmitter

Type	Description
RF output power	High:25W / Low:1W
Harmonic emissions	< 0.25μW
Residual modulation	≤40dB
Current drain, Stdby / TX (high) / RX	0.5A/ 5A / 1A (@ 13.8V
Maximum frequency deviation	±5.0kHz
Local oscillator mode	PLL (Phase-locked Loop)
Audio frequency response\	+1 dB to –3 dB of 6 dB oct. from 300–3000 Hz
Frequency Error	<± 1.5kHz
Current drain Transmit(High): Transmit(Middle): Transmit(Low):	 ≤ 3.2A ≤ 2A ≤ 1.2A

Communications

Type	Description
Comm. port NMEA 0183	Default 38400 baud
Comm. port NMEA 2000 (N2K or AIS VHF)	National Marine Electronics Association (NMEA) 2000
NMEA 0183 input (receive)	GGA, GLL, GSV, RMC, VTG, ZDA
NMEA 0183 output (transmit)	DSC (for DSC call), DSE (for enhanced position) AIVDM (AIS)

AIS Receiver (only AIS VHF)

Type	Description
Frequency	161.9750MHz / 162.025MHz
Number of channels	Dual channels

Dimensions and Weight

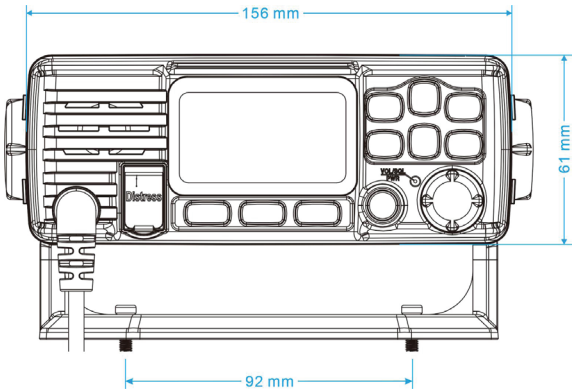
Type	Description
Fixed unit dimensions (LxWxH)	156 mm x 61 mm x 95 mm (6.14”x2.40”x 3.74”)
Fixed unit dimensions on mounting bracket	170 mm x 91 mm x 95 mm (6.69”x 3.58”x3.74”)
Fixed unit weight	0.95 kg

DIMENSION DIAGRAMS

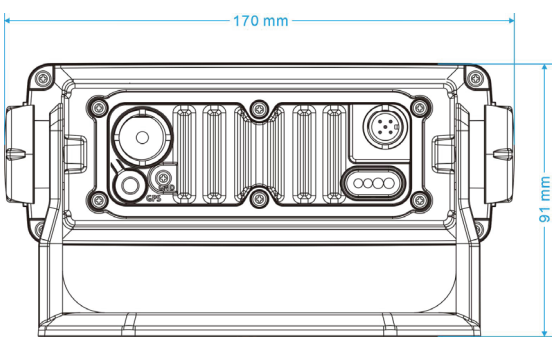
The following diagrams detail the radio and microphone measurements in millimeters. These may help you determine suitable mounting locations.

Radio Case Dimensions

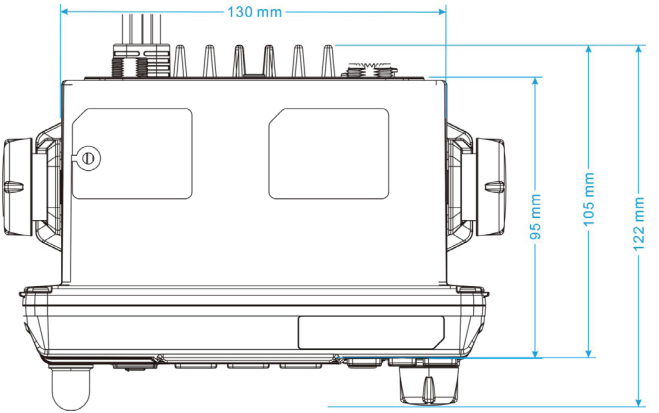
Fixed unit (front, with bracket)



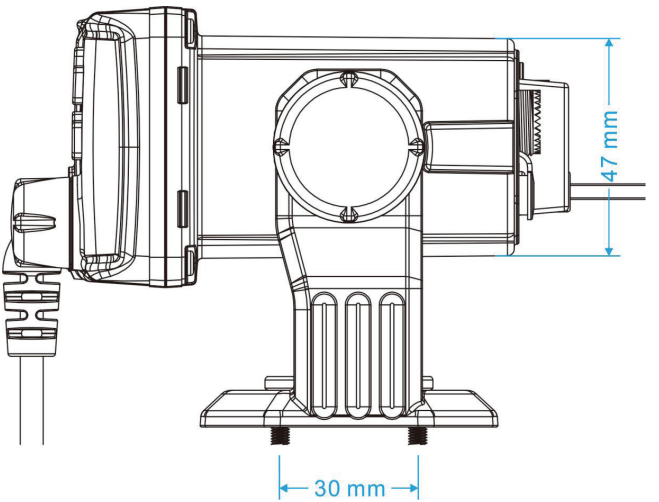
Fixed unit (rear, with bracket)



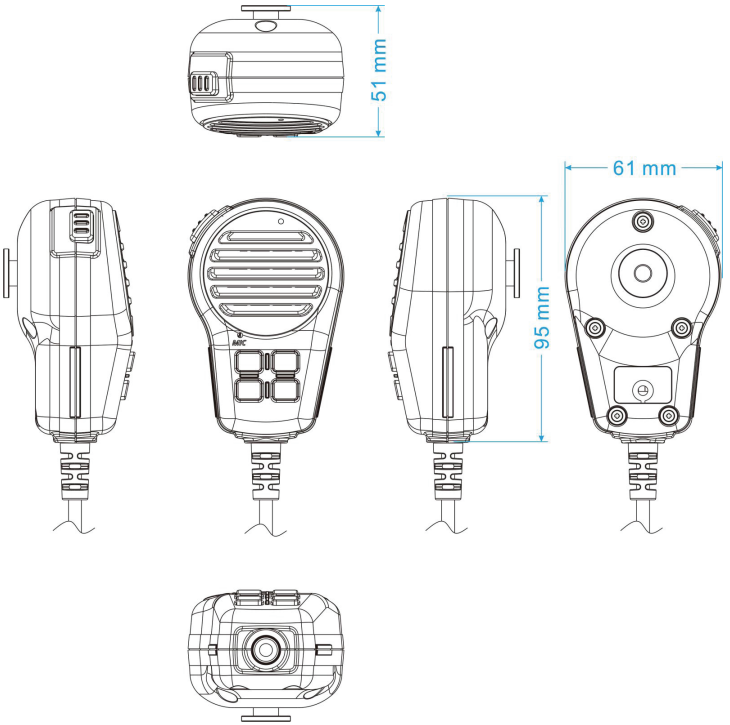
Fixed unit (top view)



Fixed unit (side view)



Standard handset



Regulator Information

Hereby, GME PTY LTD. Declare that the version of GX710D and GX720AD which have the CE symbol on the product, comply with the essential requirements of the Radio Equipment Directive 2014/53/EU, and the restrictions of the use of Certain hazardous substances in electrical and electronic equipment Directive 2011/65/EU. The full set of EU declaration of conformity is available at the following internet address: https://www.gme.net.au

UKCA

GME Pty Ltd hereby certify and declare that GX710D/GX720AD complies with the Essential requirements of Radio Equipment Regulations 2017 and Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.

Disposal and Recycling

The crossed-out wheeled-bin symbol displayed on your product, accompanying literature, or packaging indicates that, within the European Union, all electrical and electronic equipment, including batteries and rechargeable accumulators, must be taken to designated collection facilities at the end of their service life. These items must not be disposed of as unsorted municipal waste. Always follow local regulations regarding the proper disposal of electronic products.

To ensure responsible environmental management:

- Do not dispose of electronic equipment in general household waste bins.
- Return the product to an authorized e-waste collection point, recycling center, or retailer offering recognized take-back programs.
- Remove any batteries, where applicable, and dispose of them through designated battery recycling facilities.
- Follow the guidance provided by your local council or regional authorities to ensure safe and compliant disposal practices.

Australia & New Zealand

This VHF radio complies with all applicable Australian and New Zealand radiocommunications requirements, including the Radiocommunications Act, ACMA technical standards, and AS/NZS marine radio standards. The RCM mark indicates compliance with Australian and New Zealand regulatory requirements.

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
GX710D / GX720AD Marine radios	3 years

gme.net.au
GME Pty Ltd
17 Gibbon Road, Winston Hills NSW 2153, Australia

PN: 311219 DN: 55056-1