GME

G•COM

GX660 MARINE HANDHELD RADIO

INSTRUCTION MANUAL

www.gme.net.au

INTRODUCTION

Congratulations on purchasing this GME fully featured VHF Marine radio.

Your GX660 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 radio and in order to obtain the best performance, please read this manual thoroughly before operation.

CAUTION

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

NEVER: connect the radio to a power source other than the supplied battery. This may damage your product.

NEVER: transmit with the antenna less than 5 cm from exposed parts of the body.

NEVER: use the radio in or near a mining facility or other area which uses remotely triggered explosives or an area labelled 'Blasting Area'.

NEVER: use or charge your radio in a potentially explosive atmosphere.

DO NOT: place your radio in front of a vehicle air bag.

DO NOT: operate your radio on board an aircraft.

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 -15° C or above +55° C.

WATERPROOF (IPX7)

The GX660 is waterproof and meets IPX7 rating (see www2.gme.net.au/IPRatings for standards chart). However, if the GX660 is dropped, waterproofing cannot be guaranteed due to the fact that damage to the external chassis may occur.

ANTENNA AND BATTERY PACK

Make sure the flexible antenna and battery pack are securely attached to the GX660 and that the antenna and battery pack are dry before attachment. Exposing the inside of the GX660 to water will result in serious damage to the radio.

ELECTRONIC RECYCLING

Please ensure this unit is disposed of correctly when no longer required for use.

SAFETY INSTRUCTIONS

Please read through this manual before the first operation. If you have any questions, please contact GME service or your local dealer.

Extensive exposure to heat may result in damage to the radio.

Connection to the power source with reversed polarity will damage the radio severely. This damage is not covered by the warranty.

Do not disassemble.

Avoid overheating which may cause loss of contrast and in extreme cases, a darkening of the screen. Problems which occur from over heating are reversible when the temperature decreases.

IN CASE OF EMERGENCY

If your life or the safety of your vessel is in imminent danger you should contact other vessels in your area or the Coast Guard by sending a distress call on Channel 16.

USING THE CHANNEL 16 DISTRESS CALL PROCEDURE

1. "MAYDAY MAYDAY MAYDAY."

2. "THIS IS ....." (name of vessel)

3. Your call sign or other indication of the vessel.

4. "LOCATED AT ....." (your position)

5. The nature of the distress and assistance required.

6. Any other information which might facilitate the rescue.

CONTENTS

Important

It is the owner's sole responsibility to use the unit in a manner that will not cause accidents, personal injury or property damage. The user of this product is solely responsible for observing safe boating practices.

GME DISCLAIMS ALL LIABILITY FOR ANY USE OF THIS PRODUCT IN A WAY THAT MAY CAUSE ACCIDENTS, DAMAGE OR THAT MAY VIOLATE THE LAW.

OPERATOR QUALIFICATIONS

Any person in Australia operating a VHF marine radio 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 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

INTERNATIONAL CUSTOMERS

Local requirements will vary throughout the world with regard to operator qualification.

International customers should contact their local regulatory body.

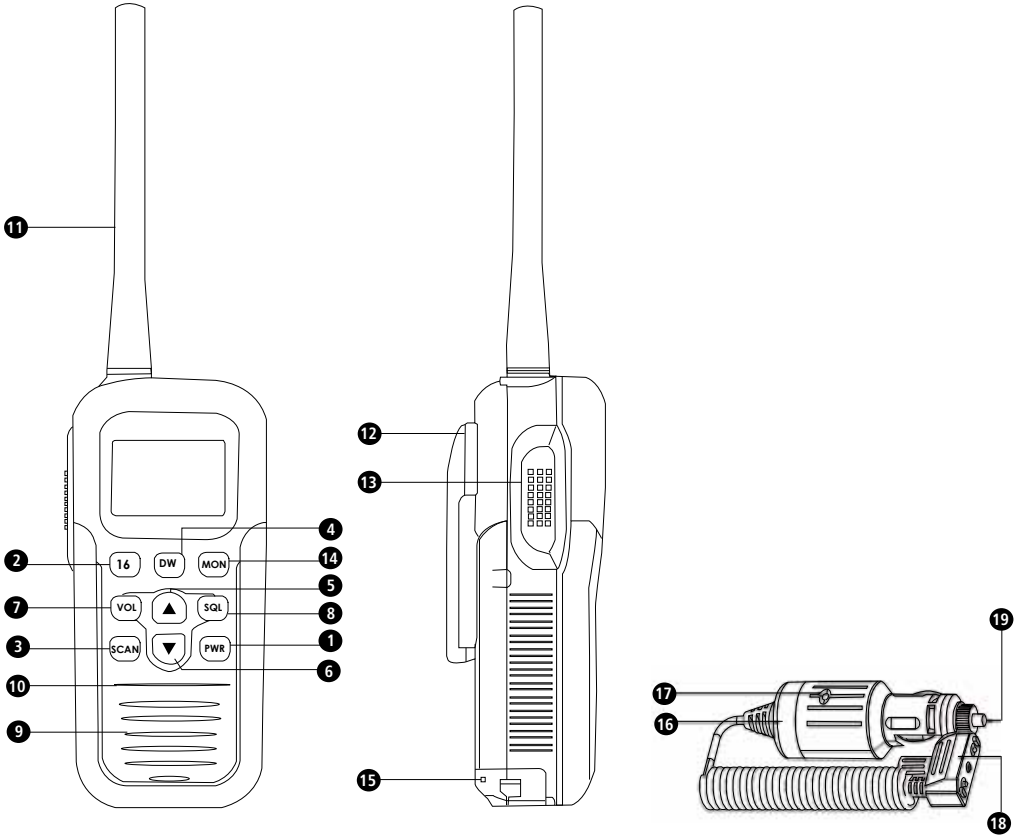
SUPPLIED ACCESSORIES

Handheld VHF GX660
Li-Ion battery pack
12V cigarette lighter adapter charger
Belt clip
Detachable antenna
Instruction manual

FEATURES

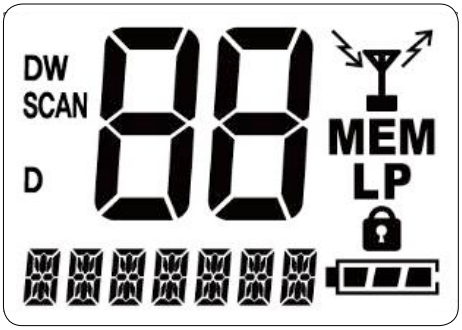
- Complete International, USA, Canadian, UK, Scandinavian and Hungarian channel sets
- Dual watch function
- Easy to read large backlit LCD
- Simple 5/1 Watt switchable power
- Floating IPX7 construction
- Flexible antenna

CONTROLS



1. Pwr (Power) key
2. Channel 16 'emergency' key
3. SCAN/MEM (Scan/Memory) Key
4. DW (Dual Watch) key
5. Up Key
6. Down key
7. VOL/INT (Volume/Country) key
8. SQL/HL (Squelch/Hi Lo) key
9. Speaker
10. Microphone
11. Antenna
12. Belt Clip attachment
13. PTT (Push to Talk) key
14. MON/LK (Monitor/Lock) key
15. Battery compartment
16. Battery charger
17. Battery charging indicator
18. Charge connector to radio
19. Cigarette lighter adaptor 12-24VDC

LCD DISPLAY



	Channel Display
	Displays country mode and other information.
LP	Low Power: <1W
SCAN	Channel SCAN enabled
MEM	Channels in Scan memory
DW	Dual Watch is enabled
D	Indicates Duplex frequency
	TX active
	RX active
	Key Lock button enabled
	Battery Level display icon → 3 Levels.

POWER ON/OFF

Press the **POWER** key for 2 seconds to switch the radio on.

When on, press the **POWER** key for 1.5 seconds to switch the unit off.

When the unit powers up, a power-on beep tone will be heard.

CHANNEL SELECTION

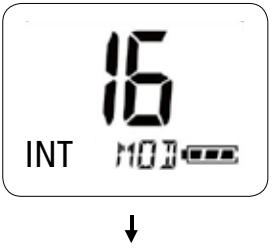
Press the ▲ or ▼ keys in RX or RX standby modes to change the current channel. Hold the ▲ or ▼ keys for more than 1 second to step up or down through the channels continuously.

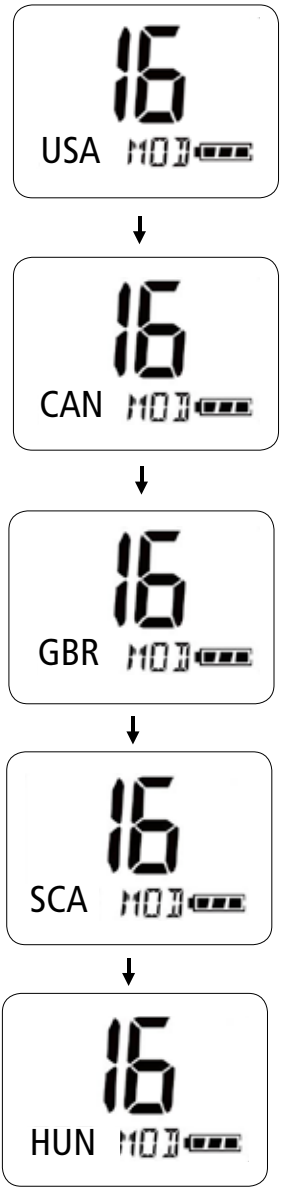
MODE CHANGES

The GX660 can be set to various country modes. The default is INT (International - used in Australia and New Zealand).

To change the country mode

Press the **VOL/INT** Key for 2 seconds while in standby mode to select the next available Country mode. The country modes available are USA (United States), CAN (Canada), GBR (Great Britain), SCA (Scandinavia), HUN (Hungary) and INT (International) country modes.





ADJUSTING THE VOLUME LEVEL

Press the **VOL/INT** key momentarily to select the volume level setting mode. While in this mode, press the ▲ or ▼ keys to change the volume level. The volume level range is 00 ~ 16.

To save the adjusted volume level either press the **VOL/INT** key again or do not press any key for 3 seconds.

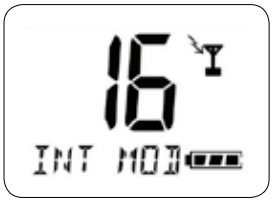
TRANSMITTING (TX)

1. Use Push-To-Talk (**PTT**) key to transmit on the selected channel.

2. If the **PTT** Key is pressed when on a **TX** inhibited channel (such as channel 70), an error bleep will sound and '**RX** ONLY' will appear at the bottom of the screen.

RECEIVING (RX)

When receiving, the Busy icon is displayed.



MONITOR OPERATION

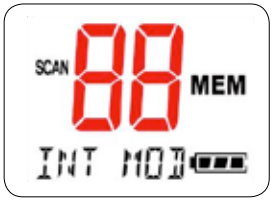
Press the **MON/LK** key to activate the Monitor function. The Monitor function turns the squelch to its lowest setting and allows the user to listen to all radio traffic on the selected channel. If any key is pressed while in the Monitor Mode, the radio will return to the Channel Selection mode.

SCAN OPERATION

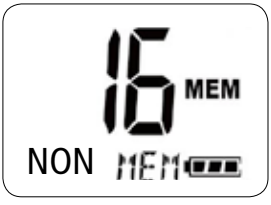
Press the **SCAN (MEM)** key momentarily to scan the channels in memory.

e.g. For memory channels: 1, 10, 15, 65 & 77

Scan sequence: Ch1 → Ch10 → Ch15 → Ch65 → Ch77 → Ch1 → Ch10 → •••



1. If there are no channels stored in the memory, no scanning will occur and an error beep will sound.



2. If only one channel is stored in the scan memory, an error beep will sound and the radio will switch to that memory channel.

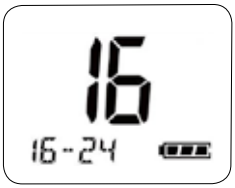
3. If there is traffic on a channel being scanned, scanning will stop on that channel until the traffic disappears. Scanning will then resume 3 seconds later
4. If the scan is paused on a busy channel and you don't wish to listen to that traffic, briefly press the ▲ key to skip that channel and continue scanning.
5. The PTT cannot be used while the radio is scanning. If pressed, an error beep will be heard.
6. If the **16** key is pressed briefly whilst scanning, the radio will switch to channel 16 and scanning is paused. If the **16** key is pressed again, the scan resumes.
7. If the **Scan** key is pressed during scanning, scanning will stop and radio will return to the start channel.
8. Pressing the **SQL/HL** key momentarily while scanning will pause the SCAN and activate the Squelch Level Change mode. The LCD display will show the current squelch level setting. To change the squelch level press the ▲ or ▼ keys. A few seconds after the squelch level has been changed the scan function will resume.
9. Pressing the **VOL/INT** key momentarily while scanning will pause the SCAN and activate the Volume Level Change mode. The LCD display will show the current volume Level. To change the Volume level press the ▲ or ▼ keys. A few seconds after the volume level has been changed, the scan function will resume.
10. Pressing the **VOL/INT** key for more than 2 seconds while scanning will stop the SCAN and enter the Country Selection mode
11. If the **SQL/HL** key is pressed for more than 2 seconds while scanning, an error beep will be heard and the key press will be ignored.

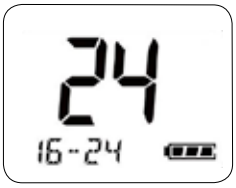
MEMORY MODE

To store a channel into the Scan Memory, select the required channel then press the **SCAN/MEM** for 2 seconds. The MEM icon is displayed on that channel. To remove a channel from the memory, select the required channel in the Scan memory and press **SCAN/MEM** for 2 seconds. The MEM icon disappears on that channel.

CHANNEL 16 MODE

Press the **16** key to toggle between Channel 16 and your previously selected channel.





1. If the radio was scanning, the scanning will pause.
2. If radio was in Dual Watch Mode, the Dual Watch function will pause.
3. If the ▲ or ▼ keys are pressed while on Channel 16, the channel will change as normal and Channel 16 mode will be released.
4. If the **VOL/INT** key is pressed over 2 seconds on the above status, it will change to the country mode and the Channel 16 mode will be released.

DUAL WATCH MODE

The Dual Watch function is a 2 channel scan feature where the GX660 switches between Channel 16 and any other selected channel. This allows you to monitor a working or club channel whilst still being able to receive important broadcasts on Channel 16.

To use the Dual Watch function

Select your preferred working channel by pressing the ▲ or ▼ keys, then press the **DW** key briefly. The DW icon appears. Channel 16 will be checked every 2 seconds. When a signal is received on either channel the unit will pause before resuming dual watch.

To deactivate Dual Watch press the **DW** key briefly.

POWER SETTING MODE

If the **SQL/HL** key is pressed for 2 seconds, the radio's transmitter power is toggled between Hi and Low power. Low power can be used for local communications to conserve battery life. For long distance communications use the Hi Power setting.

*High power ➡ 5W *Low power ➡1 W (icon displays: LP)

LCD BACK-LIGHT

When any key is pressed, the LCD and keypad will illuminate for 6 seconds.

KEY-PAD LOCK

Press the **MON/LK** key for 2 seconds to lock the keypad.

Press **MON/LK** again for 2 seconds to re-activate the keypad.

When the Key Lock is on, the **PTT** button, **MON/LK** and **Power** keys are still active but all other keys are disabled.

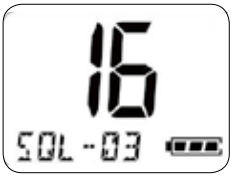
ADJUSTING THE SQUELCH LEVEL

Briefly press the **SQL/HL** key. The Squelch level setting appears. Press the ▲ or ▼ keys to change the Squelch level.

The Squelch level range is: 00 ~ 08

1. **Level 00:** The Squelch is set to minimum and all signals (including background noise) will be heard.
2. **Level 08:** The Squelch is set to maximum and only strong signals will be heard.

The new Squelch Level will be saved automatically if no further adjustment is made within 3 seconds.



BATTERY LEVEL DISPLAY

We recommend that you check the Battery Level icon periodically. If the battery level drops below a minimum voltage, the radio displays a low battery warning.

The Low Battery icon is displayed as shown below.

1. If the **PTT** key is pressed when the battery level is low, the first transmission will be allowed and an error tone will be heard and LOW BAT will be displayed. After that, no further transmissions will be allowed until the battery is recharged.

RADIO DEFAULT SETTINGS

To restore the radio to its default settings, first turn the radio off, then press and hold the **DW** key while turning the radio on again.

The defaults settings are:

Country Mode: INT (International) Mode

Last Used Channel: 16

Key Lock: Unlocked

Dual Watch: Off

All Channels MEM: Set

Squelch Level: 4

Volume Level: 13

BATTERY OPTIONS

The GX660 comes with a Li-Ion (Lithium Ion) rechargeable battery. The GX660 battery pack will provide convenient, long life service, and will operate your radio for approximately 12 hours on a single charge. The length of service depends largely on how much time you spend transmitting, and what transmit power you use.

Charging

A feature of the Li-Ion pack is that you can recharge at any time. The standard charger will completely recharge the GX660 battery pack in approximately 12 hours. The GX660 radio can be used with the charger attached or removed. The GX660 will not be damaged by extended charge times. When the radio is connected to the charger and power is present, the LED on the outside of the charger will be red. When battery is fully charged the 'LED' will turn to green.

NOTE: The battery charger does not act as a primary power source.

Battery pack assembling instructions

When you insert the battery pack, make sure you follow the directions on page 18. Otherwise, the radio will not work.

INT FREQUENCY CHART

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
1	160.6500	156.0500
2	160.7000	156.1000
3	160.7500	156.1500
4	160.8000	156.2000
5	160.8500	156.2500
6	156.3000	156.3000
7	160.9500	156.3500
8	156.4000	156.4000
9	156.4500	156.4500
10	156.5000	156.5000
11	156.5500	156.5500
12	156.6000	156.6000
13	156.6500	156.6500
14	156.7000	156.7000
15	156.7500	156.7500
16	156.8000	156.8000
17	156.8500	156.8500
18	161.5000	156.9000
19	161.5500	156.9500
20	161.6000	157.0000
21	161.6500	157.0500
22	161.7000	157.1000
23	161.7500	157.1500
24	161.8000	157.2000
25	161.8500	157.2500
26	161.9000	157.3000
27	161.9500	157.3500
28	162.0000	157.4000

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
60	160.6250	156.0250
61	160.6750	156.0750
62	160.7250	156.1250
63	160.7750	156.1750
64	160.8250	156.2250
65	160.8750	156.2750
66	160.9250	156.3250
67	156.3750	156.3750
68	156.4250	156.4250
69	156.4750	156.4750
70	156.5250	Inhibit
71	156.5750	156.5750
72	156.6250	156.6250
73	156.6750	156.6750
74	156.7250	156.7250
75	156.7750	156.775
76	156.8250	156.825
77	156.8750	156.8750
78	161.5250	156.9250
79	161.5750	156.9750
80	161.6250	157.0250
81	161.6750	157.0750
82	161.7250	157.1250
83	161.7750	157.1750
84	161.8250	157.2250
85	161.8750	157.2750
86	161.9250	157.3250
87	157.3750	157.3750
88	157.4250	157.4250

USA FREQUENCY CHART

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
1	156.050	156.050
3	156.150	156.150
5	156.250	156.250
6	156.300	156.300
7	156.350	156.350
8	156.400	156.400
9	156.450	156.450
10	156.500	156.500
11	156.550	156.550
12	156.600	156.600
13	156.650	156.650
14	156.700	156.700
15	RX Only	156.750
16	156.800	156.800
17	156.850	156.850
18	156.900	156.900
19	156.950	156.950
20	157.000	157.000
21	157.050	157.050
22	157.100	157.100
23	157.150	157.150
24	161.800	157.200
25	161.850	157.250
26	161.900	157.300
27	161.950	157.350
28	162.000	157.400

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
61	156.075	156.075
63	156.175	156.175
64	156.225	156.225
65	156.275	156.275
66	156.325	156.325
67	156.375	156.375
68	156.425	156.425
69	156.475	156.475
70	156.525	RX Only
71	156.575	156.575
72	156.625	156.625
73	156.675	157.675
74	156.725	156.725
77	156.875	156.875
78	156.925	156.925
79	156.975	156.975
80	157.025	157.025
81	157.075	RX Only
82	161.725	157.125
83	157.175	RX Only
84	161.825	157.225
85	161.875	157.275
86	161.925	157.325
87	161.975	157.375
88	157.425	157.425

CANADA FREQUENCY CHART

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
1	160.650	156.050
2	160.700	156.100
3	160.750	156.150
4	156.200	156.200
5	156.250	156.250
6	156.300	156.300
7	156.350	156.350
8	156.400	156.400
9	156.450	156.450
10	156.500	156.500
11	156.550	156.550
12	156.600	156.600
13	156.650	156.650
14	156.700	156.700
15	156.750	156.750
16	156.800	156.800
17	156.850	156.850
18	161.500	156.900
19	161.550	156.950
20	161.600	157.000
21	157.050	157.050
22	157.100	157.100
23	157.150	161.750
24	157.200	161.800
25	157.250	161.850
26	157.300	161.900
27	157.350	161.950

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
28	157.400	162.000
60	156.025	160.625
61	156.075	156.075
62	156.125	156.125
64	156.225	156.225
65	156.275	156.275
66	156.325	156.325
67	156.375	156.375
68	156.425	156.425
69	156.475	156.475
70	RX Only	156.525
71	156.575	156.575
72	156.625	156.625
73	157.675	156.675
74	156.725	156.725
77	156.875	156.875
78	156.925	156.925
79	156.975	156.975
80	157.025	157.025
81	157.075	157.075
82	157.125	157.125
83	157.175	157.175
84	157.225	161.825
85	157.275	161.875
86	157.325	161.925
87	157.375	161.975
88	157.425	162.025

UK & INT FREQUENCY CHART

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
1	160.6500	156.0500
2	160.7000	156.1000
3	160.7500	156.1500
4	160.8000	156.2000
5	160.8500	156.2500
6	156.3000	156.3000
7	160.9500	156.3500
8	156.4000	156.4000
9	156.4500	156.4500
10	156.5000	156.5000
11	156.5500	156.5500
12	156.6000	156.6000
13	156.6500	156.6500
14	156.7000	156.7000
15	156.7500	156.7500
16	156.8000	156.8000
17	156.8500	156.8500
18	161.5000	156.9000
19	161.5500	156.9500
20	161.6000	157.0000
21	161.6500	157.0500
22	161.7000	157.1000
23	161.7500	157.1500
24	161.8000	157.2000
25	161.8500	157.2500
26	161.9000	157.3000
27	161.9500	157.3500
28	162.0000	157.4000
60	160.6250	156.0250
61	160.6750	156.0750

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
62	160.7250	156.1250
63	160.7750	156.1750
64	160.8250	156.2250
65	160.8750	156.2750
66	160.9250	156.3250
67	156.3750	156.3750
68	156.4250	156.4250
69	156.4750	156.4750
70	156.5250	Inhibit
71	156.5750	156.5750
72	156.6250	156.6250
73	156.6750	156.6750
74	156.7250	156.7250
75	X	X
76	X	X
77	156.8750	156.8750
78	161.5250	156.9250
79	161.5750	156.9750
80	161.6250	157.0250
81	161.6750	157.0750
82	161.7250	157.1250
83	161.7750	157.1750
84	161.8250	157.2250
85	161.8750	157.2750
86	161.9250	157.3250
87	157.3750	157.3750
88	157.4250	157.4250
M1	157.8500	157.8500
M2	161.4250	161.4250

SCANDINAVIA & INT FREQUENCY CHART

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
1	160.6500	156.0500
2	160.7000	156.1000
3	160.7500	156.1500
4	160.8000	156.2000
5	160.8500	156.2500
6	156.3000	156.3000
7	160.9500	156.3500
8	156.4000	156.4000
9	156.4500	156.4500
10	156.5000	156.5000
11	156.5500	156.5500
12	156.6000	156.6000
13	156.6500	156.6500
14	156.7000	156.7000
15	156.7500	156.7500
16	156.8000	156.8000
17	156.8500	156.8500
18	161.5000	156.9000
19	161.5500	156.9500
20	161.6000	157.0000
21	161.6500	157.0500
22	161.7000	157.1000
23	161.7500	157.1500
24	161.8000	157.2000
25	161.8500	157.2500
26	161.9000	157.3000
27	161.9500	157.3500
28	162.0000	157.4000
60	160.6250	156.0250
61	160.6750	156.0750
62	160.7250	156.1250
63	160.7750	156.1750

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
64	160.8250	156.2250
65	160.8750	156.2750
66	160.9250	156.3250
67	156.3750	156.3750
68	156.4250	156.4250
69	156.4750	156.4750
70	156.5250	Inhibit
71	156.5750	156.5750
72	156.6250	156.6250
73	156.6750	156.6750
74	156.7250	156.7250
75	X	X
76	X	X
77	156.8750	156.8750
78	161.5250	156.9250
79	161.5750	156.9750
80	161.6250	157.0250
81	161.6750	157.0750
82	161.7250	157.1250
83	161.7750	157.1750
84	161.8250	157.2250
85	161.8750	157.2750
86	161.9250	157.3250
87	157.3750	157.3750
88	157.4250	157.4250
L1	155.5000	155.5000
L2	155.5250	155.5250
L3	155.6500	155.6500
F1	155.6250	155.6250
F2	155.7750	155.7750
F3	155.8250	155.8250

HUNGARY & INT FREQUENCY CHART

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
1	160.6500	156.0500
2	160.7000	156.1000
3	160.7500	156.1500
4	160.8000	156.2000
5	160.8500	156.2500
6	156.3000	156.3000
7	160.9500	156.3500
8	156.4000	156.4000
9	156.4500	156.4500
10	156.5000	156.5000
11	156.5500	156.5500
12	156.6000	156.6000
13	156.6500	156.6500
14	156.7000	156.7000
15	156.7500	156.7500
16	156.8000	156.8000
17	156.8500	156.8500
18	161.5000	156.9000
19	161.5500	156.9500
20	161.6000	157.0000
21	161.6500	157.0500
22	161.7000	157.1000
23	161.7500	157.1500
24	161.8000	157.2000
25	161.8500	157.2500
26	161.9000	157.3000
27	161.9500	157.3500
28	162.0000	157.4000
60	160.6250	156.0250
61	160.6750	156.0750

Ch No.	Rx Frequency (MHz)	Tx Frequency (MHz)
62	160.7250	156.1250
63	160.7750	156.1750
64	160.8250	156.2250
65	160.8750	156.2750
66	160.9250	156.3250
67	156.3750	156.3750
68	156.4250	156.4250
69	156.4750	156.4750
70	156.5250	Inhibit
71	156.5750	156.5750
72	156.6250	156.6250
73	156.6750	156.6750
74	156.7250	156.7250
75	X	X
76	X	X
77	156.8750	156.8750
78	161.5250	156.9250
79	161.5750	156.9750
80	161.6250	157.0250
81	161.6750	157.0750
82	161.7250	157.1250
83	161.7750	157.1750
84	161.8250	157.2250
85	161.8750	157.2750
86	161.9250	157.3250
88	157.4250	157.4250
H1	155.4250	155.4250
H2	155.4750	155.4750
H3	155.5000	155.5000
H4	155.5250	155.5250

SPECIFICATIONS

General

Channel Spacing:	25KHz
Supply Voltage:	7.4V DC 1400mAh Li-Ion rechargeable battery
Current Drain:	Standby: 40mA RX: 200mA at 0.6W audio output (1kHz) TX: 1.5A at 5W, 0.8A at 1W.
Battery Life:	11hrs at 5W (high)/15hrs at 1W (low) (TX: 5%, RX: 5%, Standby: 90%)
Dimensions:	137.2mm (h) x 63mm (w) x 41mm (d)
Weight:	283g

Transmitter

Frequency Range:	155.425~162.425 MHz
RF Output Power:	Selectable : Hi = 5W at 7.4Vdc, Low = 1W at 7.4Vdc
Conducted Spurious Emission:	< -36dBm
AF Distortion:	< 5%
MAX Deviation:	+/- 5 kHz
Frequency Stability:	+/- 1.5 kHz
FM Noise:	> 40dB

Receiver

Frequency Range:	155.425~162.425 MHz
Sensitivity:	1uV at 20dB SINAD
Adjacent Channel Selectivity:	> 70dB
Intermodulation Distortion:	> 68dB
Spurious Response Rejection:	> 70dB
Audio Output Power:	0.6W
Speaker Impedance:	24 ohm

NOTE: Performance specifications are nominal value, unless otherwise indicated, and are subject to change without notice

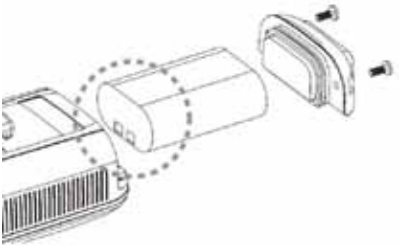
ATTENTION

The battery for your GX660 has been factory installed. Caution should be exercised opening the battery compartment as the water tight integrity of the radio could be compromised if not properly assembled. Applying a thin coat of organic vegetable oil to the 0-ring may assist in assembly.

Maintenance and caution

The GX660 is designed to provide years of trouble free operation with virtually no maintenance. Follow these simple procedures to ensure that the GX660 continues to deliver top performance:

- Rinse the GX660 lightly with fresh water after exposure to salt water or the radio's keys may become inoperable due to salt crystallisation.
- **BE CAREFUL!** Extreme shock (dropping, etc.) may crack the case or dislodge or damage the seals. Additionally, wear or improper battery pack installation can damage the battery compartment seal.
- Never transmit without an antenna attached to avoid any damage to the radio.
- Avoid using or placing the GX660 in areas with temperature below -15°C or above + 55°C. Do not place on windshields, etc.



1. Statutory Warranties

1.1 The Trade Practices Act Part V, Division 2A and other legislation imply conditions, warranties and other obligations on us to consumers that cannot be excluded, restricted or modified. Those provisions apply to the extent required by law.

1.2 We exclude all other conditions, warranties and obligations which would otherwise be implied concerning the activities covered by this agreement.

1.3 We limit our liability where we are allowed to do so. Examples of where we are allowed to limit liability are

(a) you acquire goods from us for re-supply;

(b)the goods or services we supply are not of a kind ordinarily acquired for personal, domestic or household use or consumption.

1.4 Where we are allowed to limit our liability, 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 payment of the cost of repairing the goods or of acquiring equivalent goods;

(iv) the payment of the cost of having the goods repaired; or

(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 payment of the cost of having the services supplied again.

2. Additional Warranties

2.1 The warranties in this clause are in addition to the statutory warranties referred to in the previous clause.

2.2 We warrant our goods to be free from defects in materials and workmanship for two years from the date of original sale (or another period we agree to in writing). During this period and as our sole liability to you under this warranty, we agree to, at our option, either repair or replace goods which we are satisfied are defective. We warrant replacement parts for the remainder of the period of warranty for the goods into which they are incorporated.

2.3 We warrant our other repairs to be free from defects in materials and workmanship for three months from the date of the original repair. During this period and as our sole liability to you for the repair, we agree to repair or replace (at our option) repaired goods which we are satisfied are defective.

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

2.5 If you want warranty service under this clause you must give us an original or copy of the sales invoice from the transaction or some other evidence showing details of the transaction.

3. Other Limitations

3.1 You may not rely on any representation, warranty or other provision by or for us which is not covered by clause [1] or repeated in this agreement in clear terms.

3.2 We are not liable (nor are our employees, contractors and agents) for any damage, economic loss or loss of profits whether direct, indirect, general, special or consequential -

(a) arising out of any breach of any implied or express term, condition or warranty; or

(b) suffered as a result of our negligence (or that of our employees, contractors or agents)

- apart from liability as set out in the previous two clauses.

3.3 The liability of a party under this agreement (whether arising in contract, tort or by statute) is to be reduced by the same proportion as represents the proportion of the loss or damage caused or contributed to by the other party, its contractors or agents.

GME AFTER SALES SERVICE

Your GME GX660 is especially designed for the environment encountered in portable or marine applications. The use of all solid state circuitry, careful design and rigorous testing, result in high reliability. Should failure occur however, GME maintain a fully equipped service facility and spare parts stock to meet the customer's requirements long after expiry of the warranty period.

A division of **Standard Communications Pty. Ltd.**

Head Office: SYDNEY- Locked Bag 2086, North Ryde, NSW 1670, Australia. Tel: +61 (0)2 9844 6666 Fax : +61 (0)2 9844 6600

MELBOURNE
7 Micro Circuit
DANDENONG STH 3175
Tel: (03) 9798 0988
Fax: (03) 9798 0177

ADELAIDE
14 Phillips Street
THEBARTON 5031
Tel: (08) 8234 2633
Fax: (08) 8234 5138

PERTH
Unit 1
10-12 Harvard Way
CANNING VALE 6155
Tel: (08) 9455 5744
Fax: (08) 9455 3110

BRISBANE
Unit 1
89-101 Factory Road
OXLEY 4075
Tel: (07) 3278 6444
Fax: (07) 3278 6555

SYDNEY
Unit B
22-24 College Street
GLADESVILLE 2111
Tel: (02) 9879 8888
Fax: (02) 9816 4722

AUCKLAND
Unit 2, 24 Bishop Dunn Pl.
East Tamaki
MANUKAU 2013 NZ
Tel: (09) 274 0955
Fax: (09) 274 0959

For customers outside Australia and New Zealand please contact your local GME distributor or email: export@gme.net.au

www.gme.net.au