

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [ICOM](#) /

› [Icom M330G VHF Marine Radio with GPS User Manual](#)

ICOM M330G

Icom M330G VHF Marine Radio with GPS User Manual

1. INTRODUCTION

The Icom M330G is a compact VHF marine radio designed for reliable communication on the water. This device integrates a built-in GPS receiver for accurate positioning and Digital Selective Calling (DSC) functionality, enhancing safety and communication capabilities. Its small footprint allows for flexible installation in vessels with limited space. The clear dot-matrix display and intuitive controls ensure ease of use for all marine operators.

This manual provides essential information for the proper installation, operation, and maintenance of your Icom M330G VHF Marine Radio. Please read it thoroughly before using the radio to ensure optimal performance and to understand all safety precautions.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your product package:

- Icom M330G VHF Marine Radio Unit
- External GPS antenna with 5-meter cable
- DC Power Cord
- Mounting Bracket and Hardware
- Microphone

3. KEY FEATURES

The Icom M330G VHF Marine Radio offers a range of features designed for marine communication:

- **AquaQuake Draining Function:** Emits a vibrating sound to clear water from the speaker grille, maintaining clear audio.
- **Built-in Class D DSC:** Includes a dedicated CH70 receiver for Digital Selective Calling, allowing for automated distress calls and other safety-related communications.
- **Common NMEA Interface:** Provides connectivity for external GPS/NAV devices, ensuring compatibility with various marine electronics.
- **Tag Scan and Favorite Channel Functions:** Allows users to quickly scan and access frequently used channels.
- **Dual/Tri-Watch Function:** Enables monitoring of Channel 16 (distress channel) and/or a call channel simultaneously.

- **Priority Scan Function:** Scans selected channels while continuously monitoring a priority channel.
- **Integrated GPS Receiver:** Provides accurate position, course, and speed data using GPS, GLONASS, and SBAS for enhanced navigation and DSC functionality.
- **IPX7 Waterproof Rating:** Ensures the radio can withstand immersion in water up to 1 meter for 30 minutes.

4. CONTROLS AND DISPLAY OVERVIEW

Familiarize yourself with the radio's front panel controls and display indicators.



Figure 4.1: Front Panel of the Icom M330G VHF Marine Radio

4.1. Front Panel Controls

- **Speaker Grille:** Located on the left side, for audio output.
- **DISTRESS Button:** Red button under a protective cover, used for initiating a DSC distress call.
- **Microphone Connector:** Port for connecting the coiled microphone cable.
- **Display Screen:** Shows channel number (e.g., '16'), GPS coordinates (e.g., '25°48N 80°12W'), time (e.g., '12:00 I'), power setting ('25W USA'), and status indicators ('STBY', 'SCAN', 'DW', 'HILO', 'CHAWXD').
- **Soft Keys (Bottom Row):** Five programmable buttons whose functions are indicated by the labels directly above them on the display (e.g., 'SCAN', 'DW', 'HILO', 'CHAWXD').
- **Channel Up/Down Buttons (CH ▲ / ▼):** Used to change operating channels.
- **ENT Button:** Enter or confirm selections.
- **Left/Right Arrow Buttons (◀ / ▶):** Used for navigation within menus or adjusting settings.
- **MENU Button:** Accesses the radio's menu system.
- **CLR Button:** Clears entries or exits a menu.
- **VOL/PWR Knob:** Rotates to adjust volume; press and hold to turn the radio on/off.
- **16/C Button:** Instantly selects Channel 16 (distress/calling channel) or a user-defined call channel.

5. INSTALLATION AND INITIAL SETUP

5.1. Mounting the Radio

Select a secure location on your vessel that is protected from direct sunlight and excessive vibration. Use the provided mounting bracket and hardware to securely fasten the radio. Ensure adequate space around the unit for ventilation and cable connections.

5.2. Power Connection

Connect the supplied DC power cord to a 12V DC power source on your vessel. Ensure correct polarity: red wire to positive (+), black wire to negative (-). It is recommended to connect the radio directly to the battery or through a dedicated fuse panel to minimize electrical interference.

5.3. Antenna Connection

Connect a suitable VHF marine antenna to the radio's antenna connector. For optimal performance, ensure the antenna is properly tuned and mounted as high as possible, clear of obstructions.

5.4. GPS Antenna Connection

Connect the external GPS puck antenna to the designated GPS input on the radio. Mount the GPS antenna in a location with a clear, unobstructed view of the sky to ensure reliable satellite signal reception. The 5-meter cable provides flexibility for placement.

5.5. MMSI Number Registration

The M330G features Digital Selective Calling (DSC) and requires a unique 9-digit Maritime Mobile Service Identity (MMSI) number. This number must be programmed into the radio. Contact your national telecommunications authority or a relevant marine organization to obtain an MMSI number. **Note:** The MMSI number can typically only be entered once. If an error occurs during entry, the radio may need to be returned to the manufacturer for reprogramming.

6. BASIC OPERATION

6.1. Power On/Off and Volume Adjustment

- **Power On:** Press and hold the VOL/PWR knob until the display illuminates.
- **Power Off:** Press and hold the VOL/PWR knob until the display turns off.
- **Volume Adjustment:** Rotate the VOL/PWR knob clockwise to increase volume, counter-clockwise to decrease.

6.2. Channel Selection

- Use the **CH ▲** and **CH ▼** buttons to scroll through available channels.
- Press the **16/C** button to instantly switch to Channel 16. Press it again to return to the previously selected working channel or a user-programmed call channel.

6.3. Transmitting and Receiving

- To transmit, select an appropriate channel and press the Push-To-Talk (PTT) button on the microphone. Speak clearly into the microphone.

- Release the PTT button to receive.

6.4. DSC Functions

The M330G supports various DSC functions, including distress calls, individual calls, group calls, and all ships calls. Refer to the detailed instructions in the full manual for specific DSC operation procedures after your MMSI is programmed.

6.5. AquaQuake Draining

If the speaker sounds muffled due to water ingress, activate the AquaQuake draining function. This is typically accessed via a soft key or menu option. The radio will emit a vibrating sound to expel water from the speaker grille.

7. CARE AND MAINTENANCE

- **Cleaning:** Wipe the radio with a soft, dry cloth. For stubborn dirt, use a cloth lightly dampened with fresh water. Avoid using harsh chemicals or abrasive cleaners.
- **Water Exposure:** Although the radio is IPX7 waterproof, always ensure the microphone connector cover is securely in place when not in use to prevent water ingress. After exposure to saltwater, rinse the radio thoroughly with fresh water and dry it completely.
- **Storage:** When not in use for extended periods, store the radio in a cool, dry place.
- **AquaQuake:** Regularly use the AquaQuake function after the radio has been exposed to water to maintain clear audio output.

8. TROUBLESHOOTING

This section addresses common issues you might encounter with your Icom M330G radio.

Problem	Possible Cause	Solution
Radio does not power on.	No power supply; incorrect wiring; blown fuse.	Check power cable connections; verify fuse integrity; ensure battery voltage is sufficient.
No audio from speaker or muffled sound.	Volume too low; water in speaker; speaker damaged.	Increase volume; activate AquaQuake function; if problem persists, contact service.
Cannot transmit or receive.	Antenna not connected; antenna damaged; incorrect channel selected.	Check antenna connection; inspect antenna for damage; ensure correct channel and power setting.
GPS position not displayed or inaccurate.	GPS antenna obstructed; antenna not connected; poor satellite reception.	Ensure GPS antenna has clear view of sky; check antenna connection; wait for satellite acquisition.
MMSI entry error.	Incorrect MMSI entered during initial setup.	Contact Icom service for assistance. MMSI numbers are typically single-entry and require factory reset for correction.

9. SPECIFICATIONS

Model Number:

M330G

Frequency Range:

156.000 to 174 MHz

Output Power:

25 Watts (High), 1 Watt (Low)

Number of Channels:

16

Voltage:

13.8 Volts DC

Water Resistance Level:

IPX7 (1 meter depth for 30 minutes)

Dimensions (W x H x D):

Approximately 9.65 x 8.98 x 3.7 inches (Package Dimensions)

Item Weight:

3 Pounds

Human Interface Input:

Keypad

Color:


White

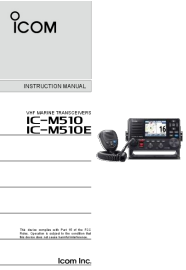




10. WARRANTY AND SUPPORT

Your Icom M330G VHF Marine Radio is covered by a manufacturer's warranty. For specific details regarding warranty coverage, duration, and terms, please refer to the warranty card included with your product or visit the official Icom website.

For technical support, service, or inquiries about your product, please contact Icom customer service through their official website or authorized service centers. Always provide your product model number (M330G) and serial number when seeking support.

Related Documents - M330G

	<p>Icom IC-M330 Series VHF Marine Transceiver Instruction Manual</p> <p>This instruction manual provides comprehensive operating instructions, features, safety precautions, and technical specifications for the Icom IC-M330, IC-M330E, IC-M330G, and IC-M330GE VHF marine transceivers.</p>
---	--

 <p>The cover of the instruction manual for the Icom IC-M510 and IC-M510E VHF Marine Transceivers. It features the ICOM logo at the top, the title 'INSTRUCTION MANUAL' below it, and the model numbers 'IC-M510' and 'IC-M510E' prominently. A small image of the transceiver is shown on the right side.</p>	<p>Icom IC-M510/IC-M510E VHF Marine Transceiver Instruction Manual</p> <p>Comprehensive instruction manual for the Icom IC-M510 and IC-M510E VHF Marine Transceivers, covering operation, installation, safety, features, and specifications for reliable marine communication.</p>
 <p>The cover of the instruction manual for the Icom IC-M605 and IC-M605EURO VHF Marine Transceivers. It features the ICOM logo at the top, the title 'INSTRUCTION MANUAL' below it, and the model numbers 'IC-M605' and 'IC-M605EURO' prominently. A small image of the transceiver is shown on the right side.</p>	<p>Icom IC-M605 / IC-M605EURO VHF Marine Transceiver Instruction Manual</p> <p>Comprehensive instruction manual for the Icom IC-M605 and IC-M605EURO VHF Marine Transceivers, covering installation, operation, DSC functions, safety precautions, and troubleshooting.</p>
 <p>The cover of the instruction manual for the Icom IC-M400BB VHF Marine Transceiver. It features the ICOM logo at the top, the title 'INSTRUCTION MANUAL' below it, and the model number 'IC-M400BB' prominently. A small image of the transceiver is shown on the right side.</p>	<p>Icom IC-M400BB VHF Marine Transceiver Instruction Manual</p> <p>This document provides comprehensive instructions for the Icom IC-M400BB VHF Marine Transceiver, covering its features, installation, operation, and troubleshooting. It includes details on DSC functionality, AIS transponder integration, and important safety warnings regarding RF exposure.</p>
 <p>The cover of the instruction manual for the Icom IC-M127 VHF Marine Transceiver. It features the ICOM logo at the top, the title 'INSTRUCTION MANUAL' below it, and the model number 'IC-M127' prominently. A small image of the transceiver is shown on the right side.</p>	<p>Icom IC-M127 VHF Marine Transceiver Instruction Manual</p> <p>This manual provides detailed instructions for operating the Icom IC-M127 VHF Marine Transceiver, including panel descriptions, basic operations, digital selective calling, and troubleshooting.</p>
 <p>The cover of the instruction manual for the Icom IC-M220 and IC-M220G VHF Marine Transceivers. It features the ICOM logo at the top, the title 'INSTRUCTION MANUAL' below it, and the model numbers 'IC-M220' and 'IC-M220G' prominently. A small image of the transceiver is shown on the right side.</p>	<p>Icom IC-M220/IC-M220G VHF Marine Transceiver Instruction Manual</p> <p>Comprehensive instruction manual for the Icom IC-M220 and IC-M220G VHF marine transceivers. Learn about features, operation, safety precautions, and specifications.</p>