

ICOM IC-M25 21

ICOM IC-M25 21 Handheld VHF Radio User Manual

Model: IC-M25 21

Brand: ICOM

1. INTRODUCTION

This manual provides essential information for the safe and effective operation of your ICOM IC-M25 21 Handheld VHF Radio. Please read this manual thoroughly before using the radio to ensure proper functionality and to prevent damage. The ICOM IC-M25 21 is a compact and lightweight handheld VHF marine radio designed for reliable communication on the water. Key features include its ability to float and flash when dropped in water, USB charging capability, and a clear LCD display.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your product packaging:

- ICOM IC-M25 21 Handheld VHF Radio (Blue Trim)
- Lithium-Ion Battery (pre-installed or separate)
- USB Charging Cable
- Belt Clip
- Antenna
- User Manual (this document)

3. SAFETY INFORMATION

Observe the following safety precautions to prevent injury, electric shock, or damage to the radio:

- Do not operate the radio in explosive atmospheres.
- Do not disassemble or modify the radio. Unauthorized modifications can void your warranty and may be dangerous.
- Use only ICOM approved accessories.
- Keep the radio away from extreme temperatures and direct sunlight.
- Ensure the USB port cover is securely closed when the radio is near water to maintain its water resistance.
- If the radio floats and flashes in water, retrieve it promptly. Prolonged submersion, especially in saltwater, can cause

damage.

4. SETUP

4.1 Attaching the Antenna

1. Align the antenna connector with the antenna port on top of the radio.
2. Gently screw the antenna clockwise until it is finger-tight. Do not overtighten.

4.2 Charging the Battery

The IC-M25 21 features convenient USB charging.

1. Locate the USB charging port on the side of the radio.
2. Open the rubber cover protecting the USB port.
3. Connect the supplied USB charging cable to the radio's USB port.
4. Connect the other end of the USB cable to a 5V USB power source (e.g., a USB wall adapter, computer USB port, or portable power bank).
5. The charging indicator on the radio will illuminate. Charging typically takes approximately 3 hours for a full charge.
6. Once fully charged, disconnect the USB cable and securely close the rubber cover to maintain water resistance.





Figure 1: Front view of the ICOM IC-M25 21 Handheld VHF Radio, highlighting the main display and control buttons.

4.3 Attaching the Belt Clip

1. Align the belt clip with the two screw holes on the back of the radio.
2. Secure the belt clip using the provided screws. Do not overtighten.

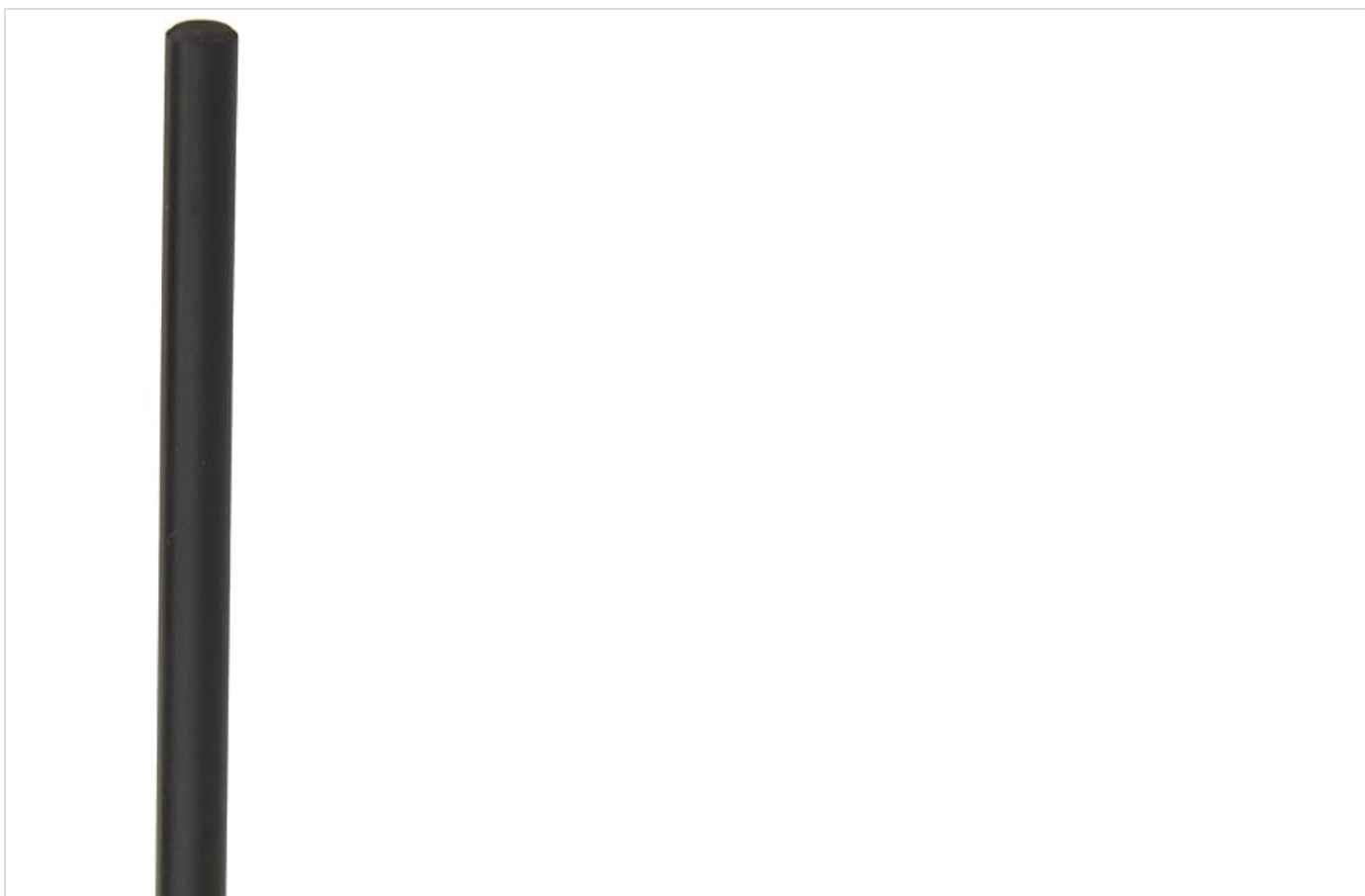




Figure 2: Back view of the ICOM IC-M25 21 Handheld VHF Radio, illustrating the belt clip attachment point.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

- To turn on: Press and hold the **POWER** button until the display illuminates.
- To turn off: Press and hold the **POWER** button until the display turns off.

5.2 Adjusting Volume

Press the **VOL/SQL** button, then use the **UP/DOWN** arrow keys to adjust the volume level. Press **VOL/SQL** again to confirm or wait for the setting to time out.

5.3 Selecting Channels

Use the **UP/DOWN** arrow keys to navigate through available channels. The radio supports 12 channels within the 156-174 MHz frequency range.

5.4 Transmitting (Talking)

1. Select the desired channel.
2. Press and hold the **PTT (Push-To-Talk)** button located on the side of the radio.
3. Speak clearly into the microphone, which is located at the bottom front of the radio.
4. Release the **PTT** button to listen for a response.

Note: The radio operates at 5W/1W selectable power output. For short-range communication, 1W is sufficient and conserves battery life. For longer distances, use 5W.

5.5 Dual/Tri Watch and Scan Functions

The IC-M25 21 includes Dual Watch, Tri Watch, and Scan functions for monitoring multiple channels. Refer to the on-screen menu or quick reference guide for detailed instructions on activating and configuring these features.

5.6 Float 'n Flash Feature

If the radio is accidentally dropped into water, it will float to the surface and an LED light will flash, making it easier to locate and retrieve, especially in low light conditions.

6. MAINTENANCE

6.1 Cleaning the Radio

- Wipe the radio with a soft, damp cloth.
- Do not use harsh chemicals or abrasive cleaners.
- After exposure to saltwater, rinse the radio thoroughly with fresh water and dry it completely before charging or opening any covers.

6.2 Battery Care

- Charge the battery fully before first use.
- Avoid overcharging or completely draining the battery.
- If storing the radio for an extended period, charge the battery to approximately 50% and store in a cool, dry place.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on.	Battery is depleted.	Charge the battery fully.
No audio or low audio.	Volume is too low; Squelch level too high; Speaker blocked.	Increase volume; Adjust squelch; Check for debris in speaker grille.
Cannot transmit or receive.	Incorrect channel selected; Antenna not properly attached; Out of range.	Verify channel; Re-attach antenna; Move closer to other station.
Radio floats but does not flash.	Battery is completely dead; LED malfunction.	Charge battery; Contact support if issue persists.

8. SPECIFICATIONS

- **Model:** IC-M25 21
- **Dimensions (H x W x D):** 5.3 x 2.2 x 1.2 inches (134.6 x 55.9 x 30.5 mm)
- **Weight:** 7.8 ounces (221 grams)
- **Frequency Range:** 156-174 MHz (VHF Marine Channels)
- **Output Power:** 5W / 1W (selectable)
- **Battery Life:** Approximately 11 hours (typical use, 5W output)
- **Battery Type:** Lithium Ion (included)
- **Charging:** 5V USB socket
- **Water Resistance:** Floats, flashes when in water (IPX7 equivalent for 30 minutes at 1 meter depth)
- **Number of Channels:** 12
- **Talking Range Maximum:** 5 Mile (approximate, varies with conditions)

9. WARRANTY AND SUPPORT

ICOM products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your product or visit the official ICOM website. Keep your proof of purchase for warranty claims. For technical support, troubleshooting assistance, or service, please contact ICOM customer service. Contact details can typically be found on the ICOM website or in the product packaging.

Online resources may be available at the [ICOM Store on Amazon](#) or the official ICOM website.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question