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› Retevis RM40 Marine Walkie-Talkie User Manual

Retevis RM40

Retevis RM40 Marine Walkie-Talkie User Manual

Model: RM40

Brand: Retevis

1. INTRODUCTION

The Retevis RM40 is a professional IP67 waterproof marine VHF radio designed for reliable communication and safety at sea. Featuring an integrated GPS, Digital Selective Calling (DSC), and Man Overboard (MOB) functions, this portable device is suitable for various marine activities, including rescue operations and coast guard use. Its robust design ensures performance even when submerged, and its floating capability aids in recovery.

2. WHAT'S IN THE BOX

- 1 x RM40 Marine Radio
- 1 x 1500mAh Battery
- 1 x Antenna
- 1 x Car Charger
- 1 x Belt Clip

3. KEY FEATURES

- **IP67 Waterproof and Floating:** The radio is fully submersible and designed to float, making it easy to retrieve if dropped in water. It also features a flashing alarm when wet.
- **Integrated GPS:** Quickly locates your position with an error range of less than 100 meters, crucial for navigation and emergency situations.
- **Digital Selective Calling (DSC):** Allows for quick distress calls and other selective calls to specific vessels or groups.
- **Man Overboard (MOB) Function:** Marks the current location based on GPS information after activation, assisting in recovery efforts.
- **Weather Channel:** Provides access to weather information for safer travel.
- **Dual Watch / Tri-Watch:** Monitors reception on multiple channels simultaneously.
- **High-Gain Flexible Antenna:** Ensures stable signal transmission and reception capabilities.

- **Large Buttons and LCD Backlight:** Facilitates easy operation, even at night.
- **Vibration Draining Function:** Helps to clear water from the speaker.
- **Rechargeable Battery:** 1500mAh battery provides approximately 3 hours of continuous operation and 12 hours of standby time. Includes both car and base chargers for convenience.

4. SETUP

4.1. Battery Installation

1. Ensure the radio is powered off.
2. Align the battery pack with the battery compartment on the back of the radio.
3. Press the battery firmly into place until it clicks securely.

4.2. Antenna Attachment

1. Screw the antenna clockwise onto the connector at the top of the radio until it is finger-tight. Do not overtighten.

4.3. Charging the Battery

Before first use, fully charge the battery.

1. Connect the AC adapter to the charging base, or use the car charger directly.
2. Place the RM40 radio into the charging base. Ensure the charging contacts align.
3. The charging indicator light will show the charging status. A full charge typically takes several hours.





Figure 1: Retevis RM40 Marine Walkie-Talkie in its charging cradle, connected to a car charger. This image illustrates the primary charging method for the device.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off and Volume Control

- **Power On:** Press and hold the **Power** button (usually red) until the LCD screen illuminates.
- **Power Off:** Press and hold the **Power** button until the screen turns off.
- **Volume Adjustment:** Use the **VOL/SQL** knob or dedicated up/down buttons to adjust the audio output level.

5.2. Channel Selection

- Use the **Up/Down arrow** buttons to cycle through available channels.
- Press the **16/C** button to quickly switch to Channel 16 (distress and calling channel) or to return to the last selected working channel.

5.3. GPS Function

The integrated GPS provides real-time location data.

- To view GPS information, navigate through the menu using the **MENU** button and select the GPS information option.

- The display will show your current latitude, longitude, and time.



Figure 2: The Retevis RM40 displaying GPS information on its screen while in use on a boat, highlighting its navigation capabilities.

5.4. Digital Selective Calling (DSC)

DSC allows for automated distress alerts and routine calls.

- **MMSI Programming:** To utilize DSC functions, a Maritime Mobile Service Identity (MMSI) number must be programmed into the radio. This is a unique nine-digit number assigned to your vessel. **Note:** Some users report that the MMSI can only be entered once. Ensure accuracy during programming. If an error occurs, specialized software and a cable may be required to reset it.
- **Distress Call:** In an emergency, lift the protective cover and press the **DISTRESS** button (usually on the back or top of the radio) for several seconds. The radio will automatically transmit a distress alert with your vessel's identity and position (if GPS is active).



Figure 3: A close-up view of the prominent red DISTRESS button on the Retevis RM40, designed for quick activation in emergency situations.

5.5. Man Overboard (MOB) Function

The MOB function helps mark the location where a person fell overboard.

- To activate MOB, press the designated **MOB** button or select it from the menu. The radio will record the current GPS coordinates.

- The radio may then provide navigation guidance back to the MOB position.



Figure 4: The Retevis RM40 displaying the MOB (Man Overboard) function, with rescue boats in the background, illustrating its utility in emergency scenarios.

5.6. Weather Channel

Access local weather forecasts for safe navigation.

- Navigate through the menu to find the Weather Channel option.
- Select the appropriate weather channel to receive broadcasts.

5.7. Dual Watch / Tri-Watch

Monitor multiple channels for important communications.

- **Dual Watch:** Monitors Channel 16 and one user-selected channel.
- **Tri-Watch:** Monitors Channel 16, Channel 9, and one user-selected channel.
- Activate these functions via the **MENU** or dedicated buttons to ensure you don't miss important calls.



Figure 5: An illustration demonstrating the Dual-Watch and Tri-Watch features, showing how the radio monitors Channel 16 and other selected channels simultaneously.

6. MAINTENANCE

6.1. Cleaning

- Wipe the radio's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure the charging contacts are clean and dry before placing the radio in the charger.

6.2. Water Draining Function

If the radio has been submerged, use the vibration draining function to expel water from the speaker grille for optimal audio clarity.

- Refer to the radio's menu or dedicated button for activating the water draining feature.



Vibration Draining Function

Figure 6: The Retevis RM40 with water droplets, illustrating its Vibration Draining Function which helps clear water from the speaker for clear audio after submersion.

6.3. Battery Care

- Avoid fully discharging the battery frequently to prolong its lifespan.
- Store the radio and battery in a cool, dry place when not in use for extended periods.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Radio does not power on	Low or depleted battery; Incorrect battery installation	Charge the battery; Reinstall the battery correctly

Problem	Possible Cause	Solution
No audio or distorted audio	Volume too low; Squelch level too high; Water in speaker	Increase volume; Adjust squelch; Use vibration draining function
Cannot transmit or receive	Incorrect channel selected; Antenna not properly attached; Out of range	Verify channel; Check antenna connection; Move closer to other stations
GPS not acquiring signal	Obstructed view of sky; Initial acquisition time	Move to an open area; Allow several minutes for initial fix
MMSI programming issue	Incorrect entry; One-time programming limitation	Ensure correct MMSI entry. If locked, contact Retevis customer support for assistance with reset tools.

8. SPECIFICATIONS

Feature	Detail
Brand	Retevis
Model Number	RM40
Color	Black
Screen Size	4 Centimeters (2 inches)
Special Features	DSC, GPS Function, IP67 Waterproof, MOB
Compatible Devices	Smartwatch (<i>Note: This may refer to connectivity features, not direct compatibility for control.</i>)
Battery Type	Lithium-ion
Rechargeable Battery	Yes
Number of Channels	88
Frequency Range	VHF
Maximum Range	4 Kilometers
Voltage	7.4 Volts
Water Resistance Level	Waterproof (IP67)
Product Dimensions	4.3D x 14.1W x 4.3H Centimeters

Feature	Detail
Number of Batteries	1 Lithium-ion (required)

9. WARRANTY AND SUPPORT

9.1. Manufacturer's Warranty

Retevis offers a 2-year warranty for the radio body and a 1-year warranty for accessories. A 30-day return policy is also provided without requiring a specific reason.

Beyond the warranty period, maintenance services are still available, with buyers responsible for associated costs.

9.2. Customer Support

For any questions, technical assistance, or warranty claims, please contact Retevis customer service through the Amazon platform. Responses are typically provided within 12 hours.

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