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YDC TECH MR36M

YDC TECH MR-36M Handheld Waterproof VHF Marine Radio

USER MANUAL

1. Introduction

This user manual provides comprehensive instructions for the safe and efficient operation of your YDC TECH MR-36M Handheld Waterproof VHF Marine Radio. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage. Keep this manual for future reference.

2. Product Overview





Figure 2.1: Front view of the YDC TECH MR-36M Handheld VHF Marine Radio.

2.1 Components

- MR-36M Handheld VHF Marine Radio unit
- Rechargeable Lithium-Ion Battery Pack
- Antenna
- AC Adapter/Charger
- Belt Clip
- Wrist Strap



Figure 2.2: The MR-36M radio with its standard accessories, including the antenna, battery, charger, belt clip, and wrist strap.

2.2 Controls and Display

The MR-36M features an intuitive layout for ease of use. Key controls include:

- **Power Button ( )**: Turns the radio on or off.
- **CH Button**: Selects channels.
- **FAV/TAG Button**: Accesses favorite channels or tags channels.
- **VOL/SQL/MONI Button**: Adjusts volume, squelch level, or monitors channels.
- **SCAN/DUAL Button**: Initiates channel scanning or activates Dual/Tri-Watch functions.
- **Hi/Lo Button**: Toggles between high and low transmit power.
- **Up/Down Arrow Buttons**: Navigates menus and adjusts settings.
- **Push-To-Talk (PTT) Button**: Located on the side, used for transmitting.



Figure 2.3: Detailed view of the large, easy-to-read LCD screen, showing channel information and signal strength.

3. Setup

3.1 Battery Installation

1. Ensure the radio is powered off.
2. Locate the battery compartment cover on the rear of the radio.
3. Unscrew the two screws securing the battery cover.
4. Carefully remove the cover. Note the waterproof rubber gasket.
5. Insert the Lithium-Ion battery pack, aligning the contacts with those in the compartment.
6. Replace the battery cover, ensuring the rubber gasket is properly seated to maintain waterproofing.
7. Secure the cover by tightening the two screws. Do not overtighten.



Figure 3.1: The waterproof rubber seal ensures the battery compartment is protected from water ingress.

3.2 Charging the Battery

1. Connect the AC adapter to a power outlet.
2. Plug the charging cable into the charging port on the radio. Ensure the connection is secure.
3. The charging indicator on the radio will illuminate, typically red, during charging.
4. Once fully charged, the indicator will change color, usually green.
5. Disconnect the charger when charging is complete.

Note: For optimal battery life, fully charge the battery before first use and avoid overcharging. Use only the supplied charger and battery pack.

4. Operating Instructions

4.1 Power On/Off

- To power on: Press and hold the Power button until the display illuminates.
- To power off: Press and hold the Power button until the display turns off.

4.2 Channel Selection

- Press the **CH** button to enter channel selection mode.
- Use the **Up/Down Arrow** buttons to scroll through available channels.
- Press **CH** again or wait a few seconds to confirm the selection.

4.3 Volume and Squelch Adjustment

- **Volume:** Briefly press the **VOL/SQL/MONI** button, then use the **Up/Down Arrow** buttons to adjust the listening

volume.

- **Squelch:** Press and hold the **VOL/SQL/MONI** button to enter squelch adjustment mode. Use the **Up/Down Arrow** buttons to set the squelch level. A higher level reduces background noise but may block weak signals.

4.4 Scan Function

- Press the **SCAN/DUAL** button once to initiate channel scanning. The radio will cycle through programmed channels.
- To stop scanning, press the **SCAN/DUAL** button again.

4.5 Dual/Tri-Watch

- Press and hold the **SCAN/DUAL** button to activate Dual-Watch or Tri-Watch mode. This allows monitoring of Channel 16 and another selected channel (Dual-Watch) or Channel 16, Channel 9, and another selected channel (Tri-Watch).
- Refer to the on-screen indicators for the active watch mode.

4.6 Transmit and Receive

- **Receive:** The radio automatically receives signals on the selected channel.
- **Transmit:** Press and hold the **PTT** button on the side of the radio. Speak clearly into the microphone. Release the **PTT** button to listen.

4.7 High/Low Power Selection

- Press the **Hi/Lo** button to toggle between high and low transmit power settings.
- Use high power for maximum range and low power to conserve battery or for short-range communication.

5. Special Features

5.1 IP-67 Waterproof Rating

The MR-36M radio is rated IP-67, meaning it is protected from dust ingress and can withstand immersion in water up to 1 meter (3.3 feet) for 30 minutes. This makes it suitable for marine environments.



Figure 5.1: The MR-36M radio demonstrating its robust design in a sandy, wet environment.

5.2 Float and Flash

Should the radio accidentally fall into water, its design allows it to float. Additionally, it features a flashing light function to aid in recovery, making it easier to spot in low light conditions or at night.

5.3 Vibration Water Draining

This feature uses vibrations to expel water from the speaker grille, ensuring clear audio quality even after exposure to water.

6. Maintenance

6.1 Cleaning

- 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.

6.2 Battery Care

- Store the radio and battery in a cool, dry place when not in use.
- If storing for extended periods, charge the battery to approximately 50% capacity.
- Avoid fully discharging the battery frequently.

7. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on	Battery is discharged or not installed correctly.	Charge the battery. Ensure the battery is correctly inserted and the cover is secured.
No audio or weak audio	Volume too low, squelch too high, or antenna not connected.	Increase volume. Lower squelch level. Ensure antenna is securely attached.
Cannot transmit	PTT button not pressed, or on a receive-only channel.	Press and hold PTT button firmly. Ensure you are on a transmit-enabled channel.
Poor reception/transmission range	Low power setting, antenna issue, or environmental interference.	Switch to high power. Check antenna connection. Move to an area with less obstruction.

8. Specifications

Feature	Specification
Model Number	MR36M
Frequency Range	156-174 MHz
Number of Channels	12
Waterproof Rating	IP67 (1 Meter depth for 30 minutes)
Talking Range Maximum	11.1 Kilometers
Battery Type	1 Lithium Ion battery required
Special Features	Float and Flash, Vibration Water Draining, Large LCD Screen, Dual/Tri-watch

Feature	Specification
Dimensions (Parcel)	22 x 19.9 x 7.2 cm
Weight (Parcel)	520 g
IC Certification	IC# 25058-MR36M
UPC	612677029958

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or contact YDC TECH customer service. Keep your proof of purchase for warranty claims.

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