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Uniden UM435BK

Uniden UM435BK Marine Radio User Manual

Model: UM435BK

Brand: Uniden

PRODUCT OVERVIEW

The Uniden UM435BK is a robust and reliable fixed mount VHF marine radio, engineered to provide essential communication and safety features for mariners. Its design prioritizes durability and ease of use, making it a vital tool for any vessel. The unit is fully submersible, ensuring performance even in challenging marine environments. Key features include comprehensive channel access (USA, International, Canadian, new 4-digit, and CDN "B" channels), selectable 1 Watt or 25 Watt transmit power, and advanced Digital Selective Calling (DSC) functionalities. The radio is equipped with a dedicated receiver for Channel 70 DSC calls, supporting distress, individual, urgency, safety, and position report functions. Its compact chassis allows for flexible installation options on various boats.



Figure 1: The Uniden UM435BK Advanced Fixed Mount VHF Marine Radio, showcasing its compact design and included microphone.

KEY FEATURES

- **Submersible Design:** IPX8/JIS8 waterproof rating ensures durability in marine conditions.
- **Channel Access:** All USA, International, and Canadian Marine Channels, including new 4-Digit and CDN “B” Channels.
- **Power Output:** Selectable 1 Watt or 25 Watt transmit power.
- **Digital Selective Calling (DSC):** Dedicated receiver for Channel 70 DSC calls, supporting distress, individual, urgency, safety, position report, send, and DSC test calls.
- **Triple Watch Plus:** Monitors Channel 16, Channel 9, and one user-selected channel simultaneously.
- **Scanning Functions:** Memory Channel Scan and Weather Scan for efficient monitoring.
- **A.M.E. Emergency/Weather Alert:** Provides critical weather and emergency alerts.
- **Display:** Larger LCD (25mm x 51mm) full dot matrix display with intuitive menus and adjustable backlight.
- **NMEA 0183:** In/Out connectivity for integration with other marine electronics.
- **Microphone:** Durable rubber grip microphone with integrated 16/09, channel up/down, and Scan/Mem keys.

SETUP AND INSTALLATION

The Uniden UM435BK is designed for fixed-mount installation, offering a shorter chassis for greater versatility in mounting locations. Proper installation is crucial for optimal performance and safety.

Mounting the Unit

Select a location that is dry, protected from direct sunlight, and allows for easy access to controls and clear visibility of the display. Ensure adequate space for cable connections at the rear of the unit. Use the supplied mounting bracket and hardware to securely fasten the radio to a flat surface.



Figure 2: Side view of the UM435BK, illustrating its compact form factor suitable for various mounting configurations.

Electrical Connections

- **Power:** Connect the red wire to the positive (+) terminal of a 12V DC power source and the black wire to the negative (-) terminal. Ensure an inline fuse is installed for protection.
- **Antenna:** Connect a marine VHF antenna to the antenna connector on the rear of the unit. A high-quality antenna is essential for effective communication range.
- **NMEA 0183:** If integrating with a GPS receiver or other NMEA 0183 compatible devices, connect the appropriate NMEA wires as per the wiring diagram in the full user manual. This enables features like position reporting for DSC.



Figure 3: Rear view of the UM435BK, highlighting the various connection ports for power, antenna, and NMEA 0183.

OPERATING INSTRUCTIONS

Familiarize yourself with the controls and display of the UM435BK for efficient operation.

Basic Operation

- **Power On/Off:** Press and hold the power button (usually integrated with the volume knob) to turn the unit on or off.
- **Volume and Squelch:** Adjust the VOLUME knob to control audio output. Rotate the SQUELCH knob to eliminate background noise; adjust until the noise disappears but you can still hear weak signals.
- **Channel Selection:** Use the CHANNEL up/down buttons on the unit or microphone to cycle through available channels. The display will show the current channel number and its description.
- **Channel Banks:** Press the 1W/25W button to toggle between USA, International, and Canadian channel banks.
- **Transmit Power:** Press the 1W/25W button to switch between 1 Watt (low power) and 25 Watt (high power) transmit modes. Use low power for short-range communication to conserve battery and reduce interference.

Advanced Functions

- **Digital Selective Calling (DSC):** The UM435BK supports various DSC calls. Press the CALL button to access the DSC menu. Ensure your MMSI (Maritime Mobile Service Identity) is programmed into the radio for DSC functionality.
- **Triple Watch Plus:** Activate Triple Watch Plus to monitor Channel 16, Channel 9, and a user-selected channel simultaneously.
- **Memory Scan:** Store frequently used channels in memory and activate Memory Scan to continuously monitor

them.

- **Weather Alert:** Access weather channels and enable the A.M.E. (All Hazards Message Encoding) Emergency/Weather Alert feature to receive critical weather warnings.



Figure 4: Close-up view of the UM435BK's LCD display and control knobs, showing channel information and function buttons.

MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your Uniden UM435BK marine radio.

- **Cleaning:** As the unit is IPX8 submersible, it can be rinsed with fresh water to remove salt residue after exposure to saltwater. Use a soft, damp cloth to clean the display and exterior. Avoid abrasive cleaners or solvents.
- **Microphone Care:** Periodically inspect the microphone and its cable for any signs of wear or damage. Ensure the screws holding the microphone gasket are tight to maintain its waterproof integrity.
- **Connections:** Regularly check all electrical and antenna connections to ensure they are secure and free from corrosion. Apply dielectric grease to connections if operating in a high-moisture environment.
- **Environmental Protection:** While the radio is waterproof, prolonged exposure to direct sunlight or extreme temperatures can affect its lifespan. When not in use, consider covering the unit if it's installed in an exposed area.

TROUBLESHOOTING

This section addresses common issues you might encounter with your UM435BK radio.

Problem	Possible Cause	Solution
No power	Loose power connection; Blown fuse; Faulty power source.	Check power cable connections; Inspect and replace fuse if necessary; Verify power source (e.g., boat battery).
No reception or poor reception	Antenna not connected or damaged; Squelch set too high; Incorrect channel selected.	Ensure antenna is securely connected and undamaged; Adjust squelch knob counter-clockwise; Verify correct channel and channel bank (USA/INT/CAN).
Volume is too low or distorted	Volume knob set too low; Speaker obstruction; Internal fault.	Increase volume; Check speaker for obstructions; If issue persists, contact Uniden support.
Cannot transmit	Microphone not connected; Low power setting; Antenna issue.	Ensure microphone is securely connected; Switch to 25 Watt power if needed; Check antenna connection and condition.
DSC not functioning	MMSI not programmed; Incorrect DSC settings.	Program your MMSI into the radio (refer to the full user manual); Review DSC menu settings.

SPECIFICATIONS

Detailed technical specifications for the Uniden UM435BK Marine Radio.

Specification	Value
Model Number	UM435BK
Product Dimensions	5 x 6.6 x 3 inches
Item Weight	3.85 pounds
Color	UM435BK (Black)
Number of Channels	40 (USA, International, Canadian)
Frequency Range	156-162 MHz
Talking Range Maximum	36 Miles (dependent on conditions)
Water Resistance Level	Waterproof (IPX8 Submersible)
Special Features	Waterproof, Digital Selective Calling (DSC), Triple Watch Plus, Memory Scan, Weather Alert
Tuner Technology	VHF
Voltage	12V DC nominal

WARRANTY INFORMATION

The Uniden UM435BK Marine Radio comes with a **3-year water protection warranty**, demonstrating Uniden's commitment to the durability and reliability of this product in marine environments. For specific details regarding the warranty terms, conditions, and claim procedures, please refer to the official warranty documentation included with your product or visit the Uniden support website.

SUPPORT AND CONTACT

For further assistance, technical support, or to access additional resources for your Uniden UM435BK Marine Radio, please utilize the following options:

- **Official User Manuals:**
 - User Guide (PDF)
 - User Manual (PDF)
- **Uniden Store:** Visit the official Uniden store on Amazon for product information and accessories: [Uniden Store](#)
- **Customer Service:** Refer to the contact information provided in your product packaging or on the official Uniden website for direct customer support.