

Uniden®

MHS235

FLOATING VHF MARINE RADIO

RADIO VHF MARITIME FLOTTANTE



OWNER'S MANUAL
GUIDE D'UTILISATION

MAKING A DISTRESS CALL

Lift the red cover. Press and hold the *DISTRESS* button for three seconds. Your radio transmits your boat's location every few minutes until you receive a response.



- ⚠ **NOTE:** If the radio displays *Enter User MMSI*, cancel the automatic distress call and make a normal voice distress call.

Making a Voice Distress Call

Speak slowly - clearly - calmly.

For future reference, write your boat's name & call sign here:

1. Make sure your radio is on.
2. Press the **16/9-TRI** button to switch to Channel 16 (156.8 MHz). (If the corner of the display does not show 16, press the **16/9-TRI** button again until it does.)
3. Press the **PUSH TO TALK** button and say: "**MAYDAY -- MAYDAY -- MAYDAY.**"
4. Say "**THIS IS** {name of your boat (three times) and call sign/boat registration number (once)}."
5. Repeat "**MAYDAY** {name of your boat}" once.
6. Tell where you are: (what navigational aids or landmarks are near, or read the latitude and longitude from your GPS).
7. State the nature of your distress (e.g. are you sinking, medical emergency, man overboard, on fire, adrift, etc.).
8. State the type of assistance you need (medical, towing, pumps, etc.).
9. Give number of persons aboard and conditions of any injured persons.
10. Estimate present seaworthiness of your ship (e.g. how immediate is the danger due to flooding or fire or proximity to shore).
11. Briefly describe your ship, giving ship name (e.g. "Blue Duck is 32 foot cabin cruiser, white hull, blue deck house").
12. Say: "**I WILL BE LISTENING ON CHANNEL 16.**"
13. End message by saying "**THIS IS** {name or call sign of your boat}, **OVER.**"
14. Release the **PUSH TO TALK** button and listen.

If you do not get an answer after 30 seconds, repeat your call, beginning at step 3, above.

FAIRE UN APPEL DE DÉTRESSE

Soulevez le couvercle noir. Maintenez **Distress** enfoncé pendant trois secondes. Votre radio transmettra l'emplacement de votre bateau toutes les quelques minutes jusqu'à ce que vous receviez une réponse.



Soulevez le couvercle noir et appuyez sur le bouton rouge **Distress** en dessous.

- B **Remarque** : Si la radio affiche **Enter User MMSI**, annulez l'appel de détresse automatique et effectuez un appel de détresse vocal normal.

Faire un appel de détresse

Parlez lentement – clairement – calmement.

Pour toute référence ultérieure, écrivez ci-dessous le nom et l'indicatif d'appel de votre bateau:

1. Vérifiez si votre radio est en marche.
2. Appuyez sur la touche **16/9-TRI** afin de commuter au canal 16 (156,8 MHz). (Si le canal 16 n'apparaît pas à l'affichage, appuyez de nouveau sur la touche **16/9-TRI** jusqu'à ce qu'il soit affiché.)
3. Appuyez sur le bouton **Push-to-Talk** et dites: "**MAYDAY -- MAYDAY -- MAYDAY**".
4. Donnez l'identité de votre navire en disant : "**ICI** {nom de votre bateau (trois fois) ou indicatif d'appel et le numéro d'identification de votre bateau (une fois)}".
5. Dites "**MAYDAY** {nom ou indicatif d'appel de votre bateau} une fois".
6. Donnez votre position : (quels sont les points de repère ou aides à la navigation près de vous ou lisez les coordonnées de longitude et de latitude apparaissant sur votre dispositif GPS).
7. Révélez la nature de votre détresse (par exemple, nous sommes en train de couler, urgence médicale, un homme à la mer, un incendie, nous sommes à la dérive, etc.
8. Révélez la nature de l'aide désirée (médicale, remorquage, essence, etc.)
9. Donnez le nombre de personnes à bord et les conditions des blessés, s'il y en a.
10. Donnez la condition de navigabilité actuelle de votre navire, tel que le degré de l'urgence par rapport une inondation, et une incendie.
11. Donnez une brève description de votre navire en donnant le nom du bateau (par exemple, "Blue Duck est un yacht de croisière de 32 pieds, avec une coque blanche et un rouffle bleu.)
12. Dites : "**JE VAIS ÉCOUTER SUR LE CANAL 16**".
13. Terminez le message en disant "**ICI** {nom ou indicatif d'appel de votre bateau}, **À VOUS**".
14. Relâchez le bouton **Push-to-Talk** du microphone et écoutez.

Si vous n'obtenez pas de réponse après 30 secondes, répétez l'appel en commençant à l'étape 3 ci-dessus.

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INTRODUCTION

FEATURES

Your radio provides the following key features:

- **Submersible design.** Complies with floating JIS8/IPX8 water-resistant standards, which means the radio can be submerged in 1.5 meters of water for 1 hour without damage.

 **Notes:**

The radio will only meet this rating if fully assembled and all rubber seals and bungs are well maintained and correctly fitted. This means that the speaker microphone bung is inserted, and the battery pack (or case) and antenna are attached and securely fastened.

After your radio is submerged in water, the sound might be distorted. This is because there is still water remaining in and around the speaker and microphone. Just shake the radio to clear excess water, and the sound should return to normal.

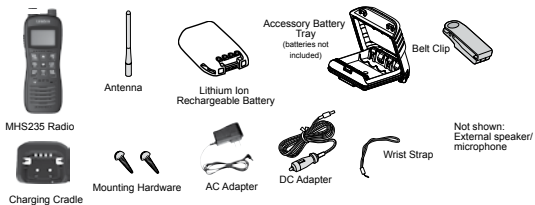
If your radio is exposed to salt water, clean it thoroughly with fresh water and dry it before turning it on.

The charger is not waterproof.

- **Memory Scan mode.** Lets you save channels to memory and monitor them in quick succession.
- **Transmitter power level select.** Lets you boost the transmitter power from 1W to 2.5 or 6W for added transmission distance.
- **Battery level display and low battery alert.**
- **Dual and Triple Watch operation.** These different watch modes let you monitor up to two Coast Guard Distress/Hailing channels and one weather channel along with one regular marine channel.
- All marine VHF channels for the U.S., Canada, and international waters
- **Emergency 16/09 Channel monitoring.** Set unit to scan one or both of these emergency channels regularly within normal scanning cycles.
- **Class D second receiver** is dedicated to monitoring the DSC watch channel 70 to ensure that no incoming messages are missed.
- **National Oceanic and Atmospheric Administration (NOAA) Weather Channel watch.** Sounds a warning tone when a hazard alert is issued.
- **SOS Strobe/Flashlight.** A high intensity strobe LED can be set to blink an SOS pattern or to be steady on.
- **Temperature.** The thermal sensor lets you measure both water and air temperature. You can display temperature in Fahrenheit or Celsius.
- **Key Lock.** Locks keys to prevent accidentally changing channels or entering data.
- **Selectable Backlight Timer.** Lets you select the length of time the backlight will be on.
- **Reversible LCD.** You can change the display from light characters on dark background to dark characters on light background.
- **DSC.** Lets you call other stations or groups using their unique identification code. This radio complies with International Class D DSC standards for Handheld GPS/VHF marine transceivers.
- **GPS (Favorite Position mode).** Lets you to save your current position as well as manually enter other positions. You can save positions into a directory to return to them as desired.
- **NMEA input/output.** Lets you connect to a chartplotter and determine what NMEA data you want to receive.
- **9 weather channels** available for monitoring.
- **Boost.** Allows you to instantly transmit at a full 6 Watts.
- **MOB (Man Overboard).** Lets you lock onto the current position when a Man Overboard situation occurs.
- **Compass Display.** Lets you determine the way you want the radio to display your course - by showing your course and direction or by showing location on a north-south-east-west display. Automatically auto-plots to a received DSC distress call.

GETTING STARTED

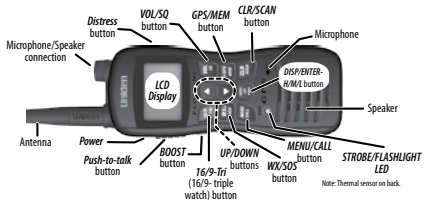
WHAT'S INCLUDED



If any pieces are missing or damaged, contact Uniden Customer Service (see back cover for contact information). For information on available accessories, visit www.uniden.com.

PARTS OF THE MHS235

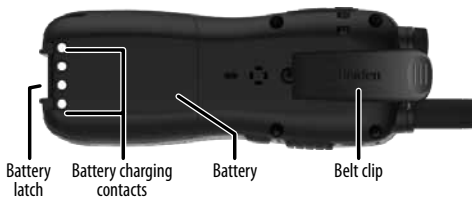
Front view



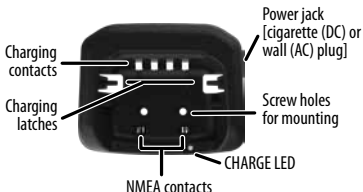
| Button | Press to... | Press and hold to... |
|---------------------|--|--|
| Push-to-Talk | N/A | Transmit on a current TX power. |
| Boost | N/A | Boost TX to 1.5w (NiMH rechargeable batteries) or 6W (TX power). |
| 16/9-Tri | 1st press: Go to CH 16. 2nd press: Go to CH 9. 3rd press: Go back to the starting channel. | Turn Triple or Dual Watch mode on and off. |
| ▲ / ▼ | Scroll up or down through one channel and data at a time when in Marine or Menu mode. | Quickly scroll up or down through channels and data when in Marine or Menu mode. |

| Button | Press to... | Press and hold to... |
|------------------------|--|--|
| WX/SOS ◀ | <ul style="list-style-type: none"> - Turn Weather mode on and off. - Return to last marine channel. - Move cursor to the left while in Menu mode. - Return to previous menu. | Turn on the strobe SOS signal. Press and hold again to change to the flashlight. Press and hold again to turn off the LED. |
| MENU/CALL | Access the Normal menu. | Access DSC call menu. |
| DISP/ENT H/M/L/ | <ul style="list-style-type: none"> - Scroll through the 5 available information display menus. - Select menu items. - Return to normal Marine mode when Marine channel list is displayed. | Change the TX power between LO (1W), MID (2.5W), and 6W (HI). |
| CLR/SCAN | Exit menu screens. | Enter or exit Scan mode. |
| GPS/MEM ▶ | <ul style="list-style-type: none"> - Enter or exit GPS menu. - Move cursor to the right while in Menu mode. | Store or delete the current channel into memory. |
| VOL/SQ | Enter or exit Volume Setting mode. | Enter or exit the Squelch setting mode. |
| Power | | Turn MHS235 on and off. |
| Distress | | Sends out emergency signal. |

Back view

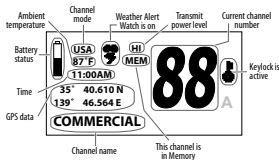


CHARGER






READING THE DISPLAY

The LCD display shows different information depending on what you are doing. Not all icons display on every screen. This dummy screen displays many of the possible icons. The table below shows possible icons and what they mean.



Display icons and what they mean

| Icon | What it means |
|------------------------|--|
| | The keys are locked. |
| | Weather Alert Watch is turned on. |
| | The battery is fully charged, mostly charged, half charged, mostly empty, or completely empty. |
| BRG | Bearing from boat's position to destination from Favorite's list. |
| COG | Current course (Course over Ground). COG displays when Favorite mode or Compass mode is active, or when a DSC distress call is received. |
| DIST | Distance from boat's position to destination. |
| LOW / MID / HI | The transmitter power is set to LOW (1W), MID (2.5W), or HI (6W). |
| USA / CAN / INT | Indicates Channel mode: US, CANadian, or INTernational channels. |
| MEM | The current channel is saved in memory. |
| °F / °C | Temperature display is active (Fahrenheit or Centigrade). |
| | Valid GPS data received from the GPS receiver. |
| | No valid GPS data received from the GPS receiver. |

| Icon | What it means |
|---|---|
|  | Automatic Channel Switch when receiving a DSC call is off. |
|  | Compass icon shows when a DSC distress call has been received, a Favorite location has been selected, or the Compass main display screen has been selected. |
|  | Position mark. Indicates the target point. |

HOW IT WORKS

DISPLAYS

Press the **DISP/ENT H/M/L** key to display the following screens:

- Marine mode
- Position mode
- Favorite mode
- Compass mode
- Temperature mode
- GPS Status mode

The last screen displayed will display again the next time the unit is powered up.

MENUS

Various menus let you establish guidelines and parameters for sending and receiving calls. Menus also let you set your radio's characteristics such as brightness, Code selection, and contrast.

The **MENU/CALL** button accesses menus that let you set the way your radio operates. The **GPS/MEM** button lets you set up your GPS features and save GPS locations to a favorites list to use again later.

MENU/CALL MENUS

You can set up the radio's physical displays and operation modes (*Normal menu*) and how you want to receive and send various types of calls (*Call menu*). The *Normal* menu provides access to the *Radio Setup* submenu and the *Call* menu provides access to the *DSC Setup* submenu.

Normal Menu

Press **MENU/CALL** to display the following *Normal* menu options:

| Menu Option | What it does |
|-------------|--|
| WX Alert | Enables the WX Alert function. |
| FIPS Codes | 30 FIPS codes for use with S.A.M.E. to ensure only the local alerts are heard. |

| Menu Option | What it does |
|---------------|---|
| Dual/TriWatch | Sets the radio for Dual Watch or Triple Watch. |
| USA/CAN/INT | Selects which channels and frequencies your radio will communicate with (USA, Canadian, or International) |
| Channel Name | 12 characters that allow custom channel names to be used. |
| Key Lock | Locks the keypad so the selected channel is not accidentally changed. |
| Radio Setup | Select this option from the <i>Normal</i> menu to set up the radio itself. |

Radio Setup Menu

Use this option from the *Normal* menu to set up physical requirements for the radio. The menu options are:

| Menu Option | What it does |
|---------------|--|
| Lamp Adjust | Set the backlight always off, timer, or always on. |
| Contrast/RVS. | You can adjust the brightness of the screen contrast higher or lower through 10 levels. Once you get to the bottom limit of the contrast, selecting it again reverses the contrasts. |
| Temperature | Set the air and water temperature reading to display in degrees Fahrenheit or Celcius. |
| Key Beep | Set unit to sound a beep tone with each key press (ON/OFF). |

Call Menu

Press and hold **MENU/CALL** to set the technical requirements for DSC function operations through the *Call* menus. The menu options are:

| Menu Option | What it does |
|---------------|--|
| Individual | Sends an individual call to an individual station. |
| Group | Sends a call to a group. |
| All Ships | Sends <i>URGENCY</i> or <i>SAFETY</i> message to all ships. |
| POS Request | Requests the position of an individual vessel. |
| Position Send | Transmits your position to an individual vessel. |
| Test | Sends a test call. |
| Standby | Places the radio in an unattended mode. |
| Receive Log | Displays a list of all received calls to the radio. The MHS235 stores log data for 10 distress calls and 50 other calls. |
| DSC Setup | Allows the user to set up Digital Selective Calling (DSC) service. |

DSC Setup Menu

This menu sets up DSC parameters.. The menu options are:

| Menu Option | What it does |
|-------------|--|
| Directory | Displays a list of up to 20 vessel IDs. Provides a means of entering a new vessel ID. |
| Auto CH SW | Select ON or OFF to enable/disable Automatic Channel Switch. Auto CH SW lets you automatically change channels if an Urgent or Safety DSC call comes in. |
| POS Reply | Lets you elect to respond automatically or manually. |
| Test Reply | Lets you elect to respond to a test request automatically or manually. |
| Group MMSI | Allows you to program the 9-digit Group MMSI setting. |
| User MMSI | Allows you to program the 9-digit User MMSI setting. |

GPS Menus

Press **GPS/MEM** to configure the GPS module through the *GPS* menu. See page E-28 for details.

| Menu Option | What it does |
|---------------------|--|
| MOB (Man Overboard) | Instantly saves your current position to the top of the Favorites list. |
| Favorite | Allows you to select a GOTO location and add new GOTO coordinates and name them. |
| GPS Setup | Sets up how the GPS will operate. |

GPS Setup Menu

This menu sets up GPS module parameters.. The menu options are:

| Menu Option | What it does |
|---------------|--|
| Unit Power | Allows you to turn the GPS module on or off to conserve battery life. |
| Power save | Turns the Battery Save feature on or off. |
| Time Adjust | Allows you to adjust to local time. |
| Daylight Save | Allows you to turn Daylight Savings Time on or off. |
| SOG Unit | Lets you set the Speed Over Ground measurement in knots, miles per hour, or kilometers per hour. |
| Compass | Set Compass display setting to either Course-Up or North Up. |
| NMEA Out | Allows you to select any or all of the following NMEA sentences for output: GGA, GSA, GSV, and RMC. The DSC and DSE sentences are always sent. |

OPERATION MODES

Your radio has three main operation modes: Normal, Scan, and Weather.

| Mode | What it does | Use it when you want to... | To turn it on/off |
|---------|---|---|---|
| Normal | Monitors a single marine channel and lets you talk on that channel. | Monitor a channel or talk to another radio. | (default mode) |
| Scan | Monitors all the channels you save into memory. | Check a small group of regularly-used channels for traffic. | Press and hold CLR/SCAN for 2 sec. |
| Weather | Monitors the selected NOAA weather channel. | Hear the current or forecasted weather. | Press WX/SOS |

In addition to the three operation modes, your radio provides four different watch modes which you can activate during any operation mode. In the watch modes, the radio briefly checks for activity on a specific channel, then returns to its previous operation.

| Watch mode | What it does | To turn it on/off |
|---------------------|---|---|
| Weather Alert Watch | Checks the last-used weather channel for hazard alerts every few seconds. | Select <i>on or off</i> from the <i>Normal/WX Alert</i> menu. |
| Dual Watch | Checks emergency channel 16 for activity every few seconds. | Select dual watch from the <i>Normal/Dual/TriWatch</i> menu and press and hold 16/9-Tri for 2 seconds. |
| Triple Watch | Checks emergency channels 16 and 9 for activity every few seconds. | Select triple watch from the <i>Normal/Dual/TriWatch</i> menu and press and hold 16/9-Tri for 2 seconds. |

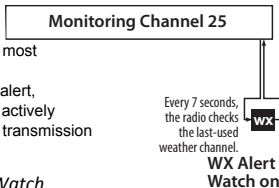
ⓘ **Note: Private boats must monitor channel 16. Whenever they are underway. Water-going vessels should have either Triple Watch or Dual Watch on at all times.**

Normal

- To transmit, remove the radio from the charger, then press and hold **Push to Talk**. Release the button when you are finished talking.
 - For the best sound quality, hold the microphone about two inches from your mouth while you're talking.
 - Press **Channel Up** to move up one channel at a time. Press and hold the button to scroll quickly up the channels.
 - Press **Channel Down** to move down one channel at a time. Press and hold the button to scroll quickly down the channels.
 - To change the transmit power, press and hold **DISP/ENT H/M/L**. The transmit power cycles through LOW (1W), MID (2.5W), and HI (6W), then back to LOW again. Press **BOOST** on the left side of the radio to boost the transmit power to 6W (Lithium Ion battery) or to 1.5W (NiMH batteries).
- ⓘ **if you are using NiMH batteries, 6W is not available.**

Normal Mode with Weather Alert Watch

If you activate Weather Alert Watch while operating in Normal mode, the radio checks the most recently used weather channel every seven seconds. If it detects a weather or other hazard alert, it will switch to that weather channel. (If you are actively transmitting, the radio waits until you finish your transmission before checking the weather channel.)

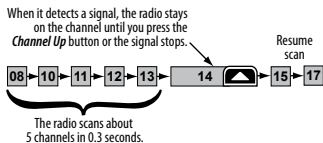


Normal Mode with Triple Watch or Dual Watch

If you activate Triple Watch while operating in Normal mode, the radio checks channels 16 and 9 every few seconds; with Dual Watch turned on, the radio only checks channel 16. The radio will not check channels 16 or 9 while you are actively transmitting; it waits until your transmission is finished and then checks the channels.

Scan

You can save any channel (except Weather channels) into memory and then use Scan mode to monitor those channels from lowest to highest. If the radio detects a signal on a channel, it stays on that channel as long as the signal is received; when the signal stops, the radio continues scanning.



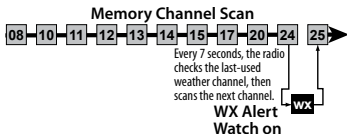
Using the Radio in Scan Mode

- To activate Scan mode, press and hold **CLR/SCAN**. The radio scans channels in memory.
- You must have at least two channels in memory to start a scan.
- You cannot transmit while in Scan mode.
- To save a channel into memory, select the channel, then press and hold the **GPS/MEM** button. The **MEM** icon displays whenever you tune to that channel.
- To remove a channel from memory, set the radio to that channel, then press and hold the **GPS/MEM** button. The **MEM** icon no longer displays.
- When the radio stays on a channel, press **Channel Up** to leave that channel and resume scanning.
- To end the scan, press and hold the **CLR/SCAN** button again; the radio remains on the last scanned channel. You can also press **WX/SOS** to change to Weather mode.

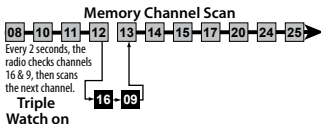
Scan Mode with Weather Alert Watch

When you activate Weather Alert Watch through the Normal menu while in Scan mode, the radio checks the most recently-used weather channel every seven seconds, then continues scanning the next channel in memory:

Scan Mode with Triple Watch or Dual Watch



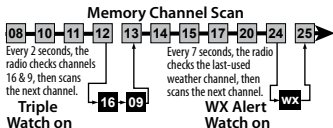
If you activate Triple Watch (press and hold **16/9 TRI**) while operating in Scan mode, the radio checks channels 16 and 9 every two seconds, then goes on to scan the next channel in memory. With Dual Watch turned on, the radio only checks channel 16:



Press **16/9 TRI** again to cancel Triple Watch mode.

Both Weather Alert and Triple/Dual Watch in Scan mode

You can activate Weather Alert Watch and Triple/Dual Watch at the same time. Press and hold **16/9 TRI** to turn on Triple Watch; turn on WX Alert through the Normal menu. The radio performs both checks at their scheduled time:



Weather

The NOAA weather channels now cooperate with the FCC to alert you of other hazards besides weather (child abduction alerts, nuclear, biological, etc.). In Weather mode, the radio monitors one of the 9 NOAA weather channels. If a weather alert signal is received in Weather Alert mode, the radio sounds an alert tone and the display blinks.

Using the Radio in Weather Mode

- You cannot transmit while in Weather mode.
- To enter Weather mode, press **WX/SOS**.
- To turn off the radio's alert tone, press any button.
- To cancel Weather mode and return to the previous marine channel, press **WX/SOS** again.

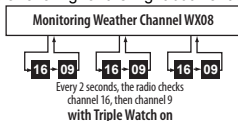
Weather Mode with Weather Alert Watch

If you activate Weather Alert Watch through the Normal menu while operating in Weather mode, it operates as a type of "sleep mode:" the radio stays on the weather channel and

mutes the speaker. If an alert is detected, the radio sounds an alert tone and turns the speaker back on. This mode is very useful when you are anchoring for the night but want to keep informed of hazards.

Weather Mode with Triple Watch or Dual Watch

If you activate Triple Watch (press and hold **16/9 TRI**) while operating in Weather mode, the radio checks channels 16 and 9 every few seconds; with Dual Watch turned on, the radio only checks channel 16.



SETTING UP THE HARDWARE

ATTACHING THE ANTENNA

The antenna detaches from the radio for easy shipping or storage. To attach the antenna to your radio, screw it tightly onto the anchor post at the top of the radio.

INSTALLING THE BATTERY

Your radio comes with a rechargeable Lithium Ion battery; for shipping safety, the battery is not installed at the factory. An empty accessory battery tray is installed as a placeholder.

1. Insert the hook on the battery into the notch at the top of the battery compartment.
- ⚠ **Note: Each time you remove the battery, check the rubber seal around the battery compartment. Make sure the seal is seated in the groove and there is no dirt or debris on it. If the seal looks worn or damaged, contact customer service to order a replacement (see back cover page for contact information).**
2. Lower the battery until it rests flat in the compartment.
3. Bring the battery latch up and snap it into place.

USING RECHARGEABLE BATTERIES

The radio also comes with an accessory battery tray that holds four AAA-type NiMH rechargeable batteries (not included). You can use rechargeable batteries as a backup when the Li-Ion battery (Uniden BT-895 or equivalent, 1.2V 900mAh) gets low and needs to be charged.

- ⚠ **NOTE: When using rechargeable batteries, transmit power is limited to a maximum of 1.5W.**

Follow these steps to use the accessory battery tray:

1. Hold the lower part of the tray in one hand with the three battery contacts facing down. Use your thumb to hold the notch on the lower part of the tray.
2. With your other hand, grip the upper part of the tray and lift the cover open.
3. Align the batteries' positive and negative terminals with the drawing on the case and snap each battery into place.
4. Insert the two hooks on the lower part of the tray into the notches on the cover; close the cover. (The cover fits snugly but you should not have to force it closed.)
5. Install the accessory battery tray in your radio just as you do the Li-Ion battery (see page E-12).

WARNING! The accessory battery tray is designed to prevent the accidental charging of non-rechargeable batteries. Never use rechargeable batteries in the radio without the accessory battery tray.

MOUNTING THE CHARGER

You can mount the charger on any flat surface.

1. Use the two holes at the base of the charger as a template to mark the drill holes.
2. Using a 1/8-inch (or 3 mm) drill bit, drill two holes 1/2 inch (13mm) deep.
3. Use the provided screws to attach the charger to the surface.

✎ **The charger must be mounted at least 2 feet (24 inches) from the compass to prevent magnetic interference with either device.**

CHARGING THE BATTERY

Your radio includes a charger and a rechargeable battery pack. Place your radio in the charger with the display facing forward. Make sure that the CHARGE LED on the charger turns orange. The battery is fully charged when the LED turns green.



Cautions:

- Use only the battery and charger supplied with this radio. Using a different charger or battery can damage the radio and create a risk of fire or shock.
- The charger is not waterproof. If the charger falls into the water, unplug it before attempting to remove it from the water. After you remove the charger from the water, please contact Customer Service (see the back cover page for contact information).
- Wipe off dirt or shake water from your radio before placing in the charger if your radio gets dirty or wet.

Important notes on charging the battery

- Charge the battery fully before using the radio.
- Don't use the charger when the ambient temperature is below 0° C (32° F) or above 45° C (113° F).
- If the radio is powered down, the battery can charge in about seven hours. (If the radio is powered on, the battery takes longer to charge.)

SETTING UP YOUR RADIO

TURNING IT ON

Press the **POWER** button for at least two seconds to turn the radio on. Press and hold it to turn the unit off.

ENTERING THE USER MMSI

When you power up your radio for the first time, it displays *MMSI Not Entered* and then displays a Marine mode screen. User MMSI numbers are unique and cannot be entered more than once. See page E-18 for general information about MMSI numbers and how to get

your specific User MMSI number and enter it.

- ⓘ If you must change your user MMSI, instructions are on the Uniden website (www.uniden.com). You can also call Uniden's Customer Care Line at 1-800-297-1023.

SETTING IT UP

Even though you can change your radio's settings at any time, you will probably want to establish initial settings when you have turned it on for the first time. You will adjust some of these settings on an as-needed basis, but some settings might only be set once and not need adjustment at all.

Acquiring GPS Location

The MHS235 automatically acquires your current GPS location when it is turned on. Turn on the radio and point the antenna towards the sky. It will triangulate your location and save it.

- ⓘ Do not let anything obstruct the antenna, such as a metal cabin ceiling.

Changing the Volume

To change the speaker volume, press **VOL/SQ** to enter Volume Setting mode. The **VOL** and **SQ** icons display at the bottom of the screen (**VOL** blinks). Press **Channel Up** or **Channel Down** to increase or decrease the volume levels (0 - 15).

Setting the Squelch Level

The MHS235 recognizes signals as transmissions if they exceed a signal strength threshold. Adjusting the squelch sets this threshold level. Increasing squelch requires a signal to be stronger to be seen as a transmission. If you set the squelch too high, you will risk not receiving transmissions that are lower than that threshold. Reducing the squelch allows weaker signals to be accepted. However, if you lower the squelch too much, you will hear white noise all the time.

The squelch feature reduces static on the speaker by filtering out any background channel noise. At the lowest squelch level, the speaker plays all signals, including any channel noise. Setting the squelch level higher filters out noise and lets only actual radio transmissions through.

While listening to a channel, press and hold **VOL/SQ** to enter Squelch Setting mode. The **VOL** and **SQ** icons display at the bottom of the screen (**SQ** blinks). Press **Channel Up** or **Channel Down** to increase or decrease the squelch levels (0 - 15).


- ⓘ **Note: Setting the squelch level too high may prevent you from hearing weaker transmissions. If you are having difficulty hearing a transmission, try setting the squelch level lower.**

Setting the UIC Channel Mode (USA/CAN/INT)

You can select marine channels for the USA, Canada, or International waters.

1. Press **MENU/CALL**. The *Normal* menu displays.
2. Select **USA/CAN/INT** and press **DISP/ENT H/M/L**. The **USA/CAN/INT** screen displays.
3. Select the mode you want and press **DISP/ENT H/M/L**.

Setting Key Lock

You can lock the keypad through the *Normal* menu. The  icon displays when Keylock is on. Unlock it by pressing and holding **MENU/CALL** for 2 seconds.

Setting WX Alert Mode

From the *Normal* menu, select *WX Alert* mode to turn this mode ON for the radio to monitor weather channels and alert you to any broadcast weather alerts or notifications. Turn *WX Alert* OFF through the *Normal* menu as well.

Setting FIPS Codes

FIPS codes identify counties in the United States. FIPS codes allow you to receive only the SAME alert occurring in a specific area. You can enter a maximum of 30 FIPS codes.

- ✎ For USA FIPS codes by state, see http://www.nws.noaa.gov/mirs/public/prods/maps/cnty_fips_list.htm. For Canadian FIPS codes, see http://www.msc.ec.gc.ca/msb/weatheradio/transmitter/index_e.cfm.
- 1. Press **MENU/CALL** to bring up the *Normal* menu.
- 2. Select *FIPS Codes*.
- 3. *[New]* and a list of previously entered FIPS codes display. Enter a new FIPS code or select from the list of existing FIPS codes to edit or delete.

Adjusting the Lamp

The backlight LCD function can be set to automatically dim after a set time.

1. Press **MENU/CALL** and select *Radio Setup/Lamp Adjust*.
2. Lamp Adjust options are *Always Off*, *Timer*, or *Always On*.
3. If you select *Always On*, the next screen lets you choose between *Green* and *Orange*. If you select timer, the options are
 - 10 sec
 - 30 sec
 - 1 min
 - 3 min
 - 5 min

Adjust the LCD Contrast

This feature lets you adjust the LCD's contrast level. It also permits you to reverse the contrast completely. You can choose to have dark characters on a light background or light characters on a dark background.

1. Press **MENU/CALL** and select *Radio Setup/Contrast/RVS*; press **Channel Up** or **Channel Down** to adjust the contrast.
2. Pressing **Channel Down** to turn the contrast all the way off will reverse the background/letters.

Setting the Air or Water Temperature Measurement

You can set the temperature to display in Celsius or Fahrenheit.

1. Press **MENU/CALL** and select *Radio Setup/Temperature*.
2. Temperature options are °C (*Celsius*) or °F (*Fahrenheit*).

- ✗ The temperature may not display correctly if the internal temperature of the radio is high (i.e., being out in the sun or a high receiver audio output).

Turning the Key Beep On and Off

Key beep is the tone that sounds when you press a key or a button. Press **MENU/CALL** to bring up the *Normal* menu. Select *Radio Setup/Key Beep*. Press **Channel Up** or **Channel Down** to turn the key beep on or off.

OPERATING THE RADIO

Making a Transmission

Select the channel you want to transmit on, then press and hold the **Push to Talk** button. Release the **Push to Talk** button when you're finished talking to let the other party respond.

- To prevent stuck microphone problems or situations where the **Push to Talk** button is pushed accidentally, the radio limits your talk time to 5 minutes in a single transmission.
- For the best sound quality, hold the microphone about two inches away from your mouth.
- See page E-23 for a list of receive-only channels.

Changing the transmission level

In most situations, 1W transmission power is all you need. If you find yourself far away from other stations and have trouble getting a response, you may need to increase the transmission power. If your radio is powered by a Li-Ion battery, you can press and hold the **BOOST** button to transmit at 6W; however, NiMH battery power boost is limited to 1.5W.

To increase the transmission power in increments:

1. Select the channel you want to transmit on.
2. Press and hold **DISP/ENT H/M/L** to switch to the next transmission power level (for example, from 1W to 2.5W, from 2.5W to 6W, or from 6W back to 1W).

| Current power level (W) | Press and hold DISP/ENT H/M/L to change to... (W) | Displays |
|-------------------------|--|------------|
| 1 | 2.5 | MID |
| 2.5 | 6 | 6W |
| 6 | 1 | LO |

3. The display shows the new transmission power as **6W**, **MID**, or **LOW**. The transmit power remains at the new setting until you change it again.
- ✗ **Note: Don't forget to change the transmission setting back to 1W when you move close to other stations.**

Some channels (for example, channels 13 and 67) limit the transmission power to 1W. When you tune to a limited-power channel, the radio automatically switches to 1W. See page E-33 for a list of power-restricted channels.

Changing the Channel

Press the **Channel Up** and **Channel Down** buttons briefly to scroll through the channels one channel at a time. Press and hold the **Channel Up** or **Channel Down** buttons to quickly scroll through the channels.

Saving the Channel into Memory

Press and hold **GPS/MEM**. **MEM** displays on the screen to indicate that that channel is now stored in memory. Press and hold **GPS/MEM** again to remove the channel from memory.

Using the Strobe/Flashlight

You can use this radio in an emergency. If you press and hold **WX/SOS**, the radio turns on the high-intensity LED strobe on your radio. The LED flashes “S O S” in international Morse Code.

☒ **NOTE:** Your radio operates normally when the SOS strobe is activated. However, the SOS key is disabled during Key Lock and MENU operation.

1. Press and hold **WX/SOS**. The LED lights in the SOS Morse Code pattern.
2. Press and hold **WX/SOS** again. The LED stays on.
3. Press and hold **WX/SOS** again. The LED goes off.

DIGITAL SELECTIVE CALLING FEATURES

WHAT IS DSC?

Digital Selective Calling (DSC) is a standard that allows you to call other stations using their unique identification code (the Maritime Mobile Service Identity or MMSI number), just like you would call a phone number. To call another station, just enter that station's MMSI number and choose the voice channel you want to talk on. The radio uses channel 70 to transmit your MMSI number to the other station along with the voice channel you requested. If the other station accepts your call, both radios automatically switch to the requested voice channel so you can talk to the other station.

DSC provides a system for automated distress calls. At the touch of a button, the radio can transmit your MMSI number, the nature of your distress, and your current position based on data from your GPS receiver. The radio repeats the distress call every few minutes until it receives an acknowledgement.

The DSC standard dedicates a VHF channel—channel 70—to digital transmissions only. Since digital transmissions require less bandwidth voice transmissions, channel 70 avoids the problems of busy voice channels.

ADVANCED DSC FEATURES

Your radio supports the following DSC features:

| Feature | Menu Item | Function |
|-----------------|------------|--|
| Individual Call | Individual | Contact another vessel from your directory. |
| Group Call | Group | Contact all vessels that share your group MMSI code. |

| Feature | Menu Item | Function |
|------------------|---------------|---|
| All Ships Call | All Ships | Broadcast to all vessels within range (used for Safety or Urgency messages). |
| Position Request | POS Request | Request the current location of another vessel. |
| Position Send | Position Send | Transmit your current location to another vessel. |
| Test Call | Test | Make sure your radio is working and configured correctly. |
| Standby Mode | Standby | Automatically respond to all DSC calls with "Unavailable" status. |
| Receive Log | Receive Log | Displays last 10 distress calls and last 50 general calls the radio received. |
| DSC Setup | DSC Setup | Accesses DSC menus. <ul style="list-style-type: none"> - Directory - Auto CH SW - POS Reply - Test Reply - Group MMSI - User MMSI |

MMSI NUMBERS

In order to use DSC features, you must be assigned a User MMSI number and program that number into your radio. There are two kinds of MMSI numbers: individual numbers for use by single boats and group numbers for use by fleets, boating organizations, event coordinators, etc.

You can get more information on MMSI numbers at these resources:

- The dealer where you purchased the radio
- Recreational boaters can obtain an MMSI number from the Boat Owner's Association of the U.S. (<http://www.boatus.com/mmsi/> or call 800-536-1536) or Sea Tow Services International (http://seatow.com/boating_safety/mmsi.asp)
- Commercial boaters need a ship station license to get an MMSI number. For more information, visit the Federal Communications Commission (FCC) website at <http://wireless.fcc.gov/marine/fctsht14.html>.

Entering MMSI numbers

Use the **Channel Up** and **Channel Down** keys to scroll through numbers (and letters when entering names). When you see the number/letter you want, press the right arrow (**GPS/ MEM**) to move the cursor to the next space. Press the left arrow (**WX/SOS**) to back up.

When using the **Channel Up** and **Channel Down** keys to enter a name, the alphabetic and numeric characters display in the following order:

- Capital letters (A through Z)
- Lower-case letters (a through z)
- Punctuation (/ ' + -)
- Numbers (0 through 9)
- One blank space

Entering Your User MMSI Number

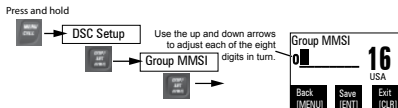
- NOTE: Be sure you have the correct User MMSI number before entering it in the radio. The radio only allows you to enter the User MMSI once. If you need to re-enter the User MMSI number, contact customer service (see back page for contact information).

When you power up your radio for the first time, it displays *MMSI Not Entered* and then displays a Marine mode screen.

1. Press and hold **MENU/CALL**; the *Enter User MMSI* screen displays.
2. Press **DISP/ENT H/M/L**. The *User MMSI* screen displays.
3. Enter the MMSI number as described previously to scroll through the numbers. When the ninth digit is entered, the radio asks if you want to save the number and confirm it. Press **DISP/ENT H/M/L** to save it.
4. Before saving the number, the radio displays the message *Confirm number! User MMSI data is Permanent!* At this point you can edit the number (press **MENU/CALL**), save the number (press **DISP/ENT H/M/L**), or return to the Marine mode screen (press **CLR/SCAN**),

Entering a group MMSI number

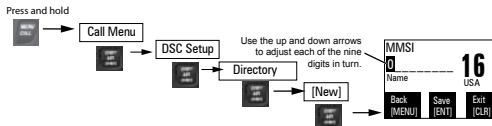
You can change the group MMSI number as often as you want. The first digit of a group MMSI is fixed at "0." Follow the steps below to enter a group MMSI number into the radio:



1. Press and hold **MENU/CALL** to display the *Call Menu*.
2. Select *DSC Setup/Group MMSI* and press **DISP/ENT H/M/L**. The *Group MMSI* screen displays.
3. Group MMSI numbers always start with a 0, so that digit is already entered for you. Enter the MMSI number as described previously. When the ninth digit is correct, press **DISP/ENT H/M/L**. The radio asks you to confirm.
4. To save this MMSI number, press **DISP/ENT H/M/L**. To cancel this MMSI number, press **CLR/SCAN**.

Entering an individual MMSI number

Follow the steps below to enter individual MMSIs and names of other vessels into the directory:



1. Press and hold **MENU/CALL** to display the *Call Menu*.

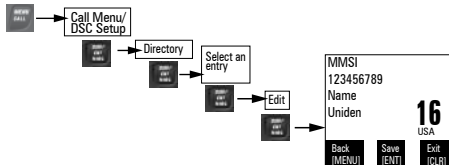
2. Scroll to *DSC Setup* and press **DISP/ENT H/M/L**. The *DSC Setup* menu displays.
3. Scroll to *Directory* and press **DISP/ENT H/M/L**. The *Directory* menu displays.
4. Select *[New]* and press **DISP/ENT H/M/L**.
5. Enter the MMSI number as described previously. When the ninth digit is correct, press **DISP/ENT H/M/L** and the cursor moves to the *Name* field.
6. Enter the name as described previously. When you have entered the name, press **DISP/ENT H/M/L**.
7. The radio displays the new MMSI number and name and asks you to confirm. To save this MMSI number and name, press **DISP/ENT H/M/L**. To cancel this MMSI number, press **CLR/SCAN**.

USING THE DIRECTORY

The directory lets you store up to 20 MMSI numbers of other stations so you can call them quickly. From the directory, you can edit or delete MMSI numbers.

Follow the steps below to edit the MMSI numbers in your directory:

Press and hold



1. Press and hold **MENU/CALL** to display the *Call* menu.
2. Scroll to *DSC Setup* and press **DISP/ENT H/M/L**. The *DSC Setup* menu displays.
3. Scroll to *Directory* and press **DISP/ENT H/M/L**. The *Directory* screen displays. This screen lets you add a new MMSI or edit/delete an existing MMSI.
4. To enter a new MMSI, select *[NEW]* and follow the procedures for entering an individual MMSI number.
5. To edit an existing MMSI number/name, select the entry and press **DISP/ENT H/M/L**.
6. Select *Edit* and press **DISP/ENT H/M/L**. The MMSI number and name display. Edit accordingly and press **DISP/ENT H/M/L** when complete. A confirmation screen displays.
7. Press **DISP/ENT H/M/L** to accept the edits or **CLR/SCAN** to cancel. The radio returns to the *DSC Directory Edit* screen.
8. To delete the directory entry, select *Delete*.
When you are satisfied with the directory list, press **CLR/SCAN** to close the menu screen.

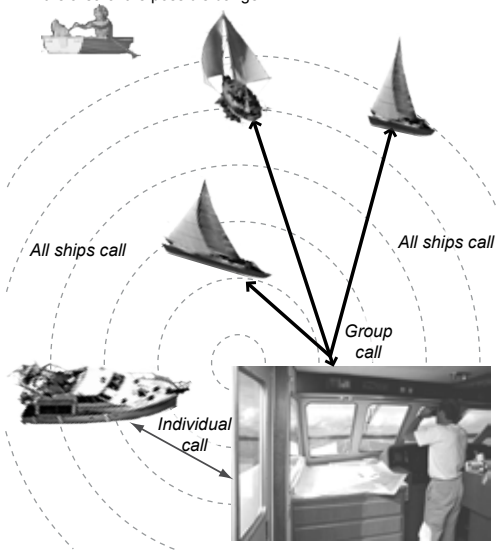
MAKING DSC CALLS

There are essentially four different types of DSC voice calls:

| Call type | What it does | When to use it |
|------------|--|---|
| Distress | Alerts all stations that you need assistance and sends them your current position. | In an emergency only. |
| Individual | Calls a single station using the User MMSI. | When you want to talk to another station. |
| Group | Calls all the stations that have the same Group MMSI as yours. | Any time you want to talk with the whole group you are traveling with at the same time. |
| All Ships | Calls all stations within range of your radio. | Safety warnings (e.g., debris in the water) or any urgent situation. |

Suppose you are coordinating safety for a sailboat race. Before the race starts, you instruct all the racers to enter your group MMSI number into their radios. During the race:

- Throughout the race, you use group calling to update the racers on the time, race status, and any course corrections.
- A power boat full of spectators comes too close to the race path. You use individual calling to contact the power boat and advise them to stay clear of the race.
- You see a rowboat entering the area, but since it doesn't have a radio, you can't communicate with the rowboat. You use all ships calling to alert all the other boats in the area of the possible danger.



Calling a single station (Individual Call)

To call a single station with DSC, follow these steps:

1. Press and hold **MENU/CALL** to display the *Call* menu.
2. Select *Individual*.
3. The radio displays the names listed in your directory; use **Channel Up** and **Channel Down** to choose the directory entry you want to call and press **DISP/ENT H/M/L**. If you want to call a station that is not in your directory, select *Manual*. The radio prompts you to enter the MMSI number you want to call. Enter the MMSI number the same way you enter directory entries (see page 22) Enter all nine digits and press **DISP/ENT H/M/L**.
4. The radio prompts you to select a response channel. Use **Channel Up** and **Channel Down** to scroll through the available channels. When you reach the channel you want to use for a response, press the **DISP/ENT H/M/L** button.
5. The radio displays the MMSI number you are about to call and asks you to confirm. If you want to call the displayed MMSI number, select *Send* (press **GPS/ISP/ENT H/M/L**). To cancel the call, select *Exit* (press **CLR/SCAN**).
6. The radio automatically switches to channel 70 to transmit the call request.
 - When the other station accepts the call, both radios switch to the selected response channel for voice transmission.
 - If the other station cannot respond on the channel you selected, the radio displays *Not support CH*.

Calling a particular group of stations (Group Call)

Group calling calls all the stations that share your group MMSI. You must have a group MMSI programmed into the radio to make a group call, and the stations (boats) you are calling must have this same group MMSI programmed into their radios.

1. Press and hold **MENU/CALL** to display the *Call* menu.
2. Select *Group*.
3. The radio prompts you to select a response channel. Use **Channel Up** and **Channel Down** to scroll through the available channels. When you reach the channel you want to use for a response, press **DISP/ENT H/M/L**.
4. The radio asks you to confirm the call. Select *Send* (press **DISP/ENT H/M/L**) to continue with the call or select *Exit* (press **CLR/SCAN**) to cancel the call.
5. The radio switches to channel 70 to transmit the call request then automatically switches to the designated response channel.

Calling all stations (All-Ships Call)

All ships calling contacts all DSC radios within range of your boat. You should only use all ships calling in the event of a Safety warning (such as debris in the water) or to request assistance in an Urgency (any situation where your vessel has a serious problem but is not yet in distress).

1. Open the *Call* menu.
2. Select *All Ships*, and then choose whether this is an Urgency call or a Safety call.
3. The radio asks you to confirm the call. Select *Send* (press **DISP/ENT H/M/L**) to continue with the call or select *Exit* (press **CLR/SCAN**) to cancel the call.

- The radio automatically switches to channel 70 to transmit the call request then automatically switches to channel 16, the designated response channel for all-ships calling.

MAKING AN AUTOMATIC DISTRESS CALL

If you have programmed your MMSI number, your radio can transmit an automated distress call with your current location and nature of the distress. The radio then monitors channel 16 for a response and repeats the distress call every few minutes until it receives an acknowledgement.

To send an automatic distress call, press and hold DISTRESS for three seconds. If no MMSI number has been programmed, the radio prompts you to enter your MMSI number.

If you want to include the nature of your distress in the distress call, use the following distress procedure:

- Press **DISTRESS**.
- The radio displays the list of distress conditions; use **Channel Up** and **Channel Down** to choose the nature of your distress, then press and hold **DISTRESS** for three seconds.

| | | | |
|--------------|---------------|------------|-----------|
| Undesignated | Sinking | Fire | Overboard |
| Adrift | Flooding | Abandoning | Capsizing |
| Collision | Piracy, Armed | Grounding | |

Canceling an automatic distress call

While the radio is waiting for a response, it gives you the option of canceling the call. To cancel the distress call, choose *Exit* and press **CLR/SCAN**.

RECEIVING A DSC CALL

If your radio receives an individual DSC call from another station, it sounds an incoming call tone and displays the name/MMSI number of the station calling you. To respond to the call, select *Send: Able-Comply*; the radio sends an acknowledgement and automatically switches to the designated response channel. To reject the call, select *Send: Unable-Comply*; the radio advises the other station that you are unable to respond to the call.

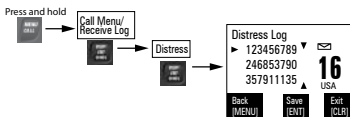
If the DSC request contains a response channel that you are not allowed to use, the radio displays *Not Support CH*; your only response option is *Send: Unable-Comply*.

If the radio receives a group or all ships call, it sounds an incoming call tone and automatically switches to the designated response channel.

Receive log

Just like your telephone's caller ID list, your radio keeps track of the calls you receive. The receive log is useful if you have been off your boat or away from your radio and want to see who has tried to contact you. The radio displays the last 10 distress calls and the last 50 non-distress calls that it received. If you have unread incoming DSC calls, the radio displays a Message icon. When you display all Distress and Other receiving logs, the message icon disappears.

1. Press and hold **MENU/CALL** to display the *Call* menu.



2. Select *Receive Log*.
3. Select *Distress* to see the last 10 distress calls received by the radio. Select *Other* to see the last 50 normal calls received by the radio, then choose from *Individual*, *Group*, or *All Ships* calls.
4. Calls are listed in the order they were received, with the newest call shown first. The display blinks if there are new calls you have not reviewed. The Message icon also displays.
5. Select the call you want to see the details of. Use **Channel Up** and **Channel Down** to see all of the information. The log displays different information depending on type of call received. See the table below for the information stored for each type of call:

| DSC Call Type | Receive Log Information |
|------------------------|--|
| Distress | MMSI (or name), position, time, nature code. |
| Distress Acknowledge | MMSI (or name), distress MMSI, position, time, nature code. |
| All Ships | MMSI (or name), category code, communication channel number. |
| Group | MMSI (or name), category code, communication channel number. |
| Individual | MMSI (or name), category code, communication channel number. |
| Individual Acknowledge | MMSI (or name), Completed/Unattended, category code, communication channel number. |
| Test | MMSI (or name), category code. |
| Test Acknowledge | MMSI (or name), category code. |
| Pos Reply | MMSI (or name), position, time, category code. |
| Pos Request | MMSI (or name), category code. |
| Pos Send | MMSI (or name), position, time, category code. |

6. From the log menu, select *Exit* to close the receive log and return to the mode you were in.

Returning a call from the Receive Log

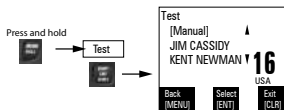
You can return individual calls directly from the Receive Log. From the call detail screen, press **Channel Down** until *Call Back* appears at the bottom of the display. Press **DISP/ENT H/M/L** to return that station's call.

TEST CALLS

Making Test Calls (Test)

☞ You can use the test call feature to make sure your radio is working and configured correctly. To avoid overloading coastal receiving stations, you should limit test calls to these stations to once a week.

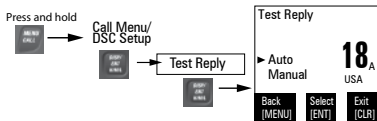
NOTE: Many coastal stations have specific frequencies and MMSI numbers you should use for making test calls. Before making a test call to a coastal station, be sure to check the Local Notice to Mariners (LNM), issued every week by the US Coast Guard. The LNMs for each region are available online at <http://www.navcen.uscg.gov/?pageName=lnmMain>.



1. Press and hold **MENU/CALL** to display the *Call* menu.
2. Select *Test*.
3. The radio displays the names listed in your directory; use **Channel Up** and **Channel Down** to choose the directory entry you want to send a test call to and press **DISP/ENT H/M/L**.
4. If you want to send a test call to a station that is not in your directory, select *Manual*. The radio prompts you to enter the MMSI number you want to call. Enter the MMSI number the same way you enter directory entries (see page 22). Enter all nine digits and press **DISP/ENT H/M/L**.
5. The radio displays the MMSI number you are about to call and asks you to confirm. If you want to call the displayed number, select *Send*. To cancel the call, select *Exit*.
6. The radio automatically switches to channel 70 to transmit the test call request, then switches back to the last-used channel.
7. When the other station acknowledges the test call, the radio displays an acknowledgement screen.

Receiving Test Call Setup

When another station sends you a test call, you can select options to answer the test call manually or have the radio answer automatically.



Press and hold **MENU/CALL** to display the *Call* menu.

8. Select *DSC Setup* and then *Test Reply*.
9. Choose *Auto* and press **DISP/ENT H/M/L**. The radio will automatically send an

acknowledgement when it receives a test call.

- To disable automatic test call reply, repeat the steps above and select *Manual*.

Acknowledging Test Call Receipt

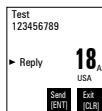
Different screens display depending on whether you set the *Test Reply* to *Auto* or *Manual*.

If *Test Reply* is set to *Auto*:



No action is necessary.

If *Test Reply* is set to *Manual*:



Select *Send* to send a reply.

POSITION REQUEST AND REPLY

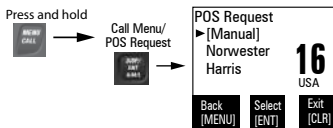
Enabling Automatic Position Reply

If you want the radio to automatically transmit your current position whenever it receives a position request, you can enable automatic position reply. Most boaters activate automatic position reply for safety reasons or because they subscribe to a marine towing service. Sometimes—for example, in some competitive situations—you may not want other stations to get your position without your manual confirmation

- Press and hold **MENU/CALL** to display the *Call* menu.
- Select *DSC Setup* and then *Position Reply*.
- Choose *Auto* and press **DISP/ENT H/M/L**. The radio will automatically transmit your position when it receives a position request.
- To disable automatic position reply, repeat the steps above and select *Manual*.

POS Request

Any time you need to know where another boat currently is—to find your boating partners, to respond to a request for assistance, etc.—you can send a position request to their radio:



- Press and hold **MENU/CALL** to display the *Call* menu.
- Select *POS Request* and press **DISP/ENT H/M/L**.
- The radio displays the names listed in your directory; use **Channel Up** and **Channel Down** to choose the directory entry you want to contact and press **DISP/ENT H/M/L**. If you want to contact a station that is not in your directory, select *Manual*. The radio prompts you to enter the MMSI number you want to call. Enter the MMSI number the

same way you enter directory entries (see page **22**). Enter all nine digits and press **DISP/ENT H/M/L**.

- The radio displays the MMSI number you are about to contact and asks you to confirm. If you want to request the position of the displayed MMSI number, select **Send**. To cancel the request, select **Exit**.
- When the other station responds, the radio displays the MMSI number, the longitude, and the latitude of the other station. If your radio is connected to a chartplotter through the NMEA OUT connection (see page **34**), the position information will also be displayed on the plotter screen.
- If the other station does not have valid GPS data, the radio displays *No Position*.

Position Reply

When another station requests your current position, different screens display depending on whether you set *Position Reply* to *Auto* or *Manual*.

If *Position Reply* is set to *Auto*:



No action is necessary.

If *Position Reply* is set to *Manual*:



Select **Send** to send a reply or **Exit** to reject the request.

Position Send

If you are requesting assistance or using an all ships call to give a safety warning, you can send your current position so other stations know where you are:

- Press and hold **MENU/CALL** to display the *Call* menu.
- Select *Position Send*.
- The radio displays the names listed in your directory; use **Channel Up** and **Channel Down** to choose the directory entry you want to contact and press **DISP/ENT H/M/L**. If you want to contact a station that is not in your directory, select *Manual*. The radio prompts you to enter the MMSI number you want to call. Enter the MMSI number the same way you enter directory entries (see page 22). Enter all nine digits and press **DISP/ENT H/M/L**.
- The radio displays the MMSI number you are about to contact and asks you to confirm. If you want to transmit your position to the displayed MMSI number, select **Send**. To cancel the transmission, select **Exit**.
- The radio transmits your MMSI number, your longitude, and your latitude to the other station.

PUTTING THE RADIO INTO STANDBY

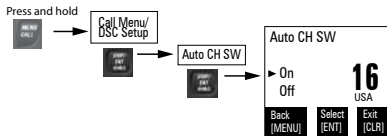
If you are leaving your radio or do not wish to answer any DSC calls, you can put your radio in standby mode. If your radio receives an individual call, it will automatically respond with

a message that indicates your radio is currently unattended. Follow the steps below to put your radio in standby:

1. Press and hold **MENU/CALL** to display the *Call* menu.
2. Select *Standby* to place your radio in standby mode.
3. To cancel standby and return to the mode your radio was in, press any button.

DISABLING AUTOMATIC CHANNEL SWITCHING

If you are involved in a bridge-to-bridge call, you may not want the radio to automatically switch channels when it receives a DSC call. In cases like this, you can disable automatic channel switching. If you receive an individual call, the radio will respond with an unattended code, just as if the radio were in Standby.



1. Press and hold **MENU/CALL** to display the *Call* menu.
2. Select *DSC Setup*, then *Auto CH SW*.
3. Select *Off* and press **DISP/ENT H/M/L**. The radio will not automatically switch channels until you reactivate this feature.

⚠ **NOTE: Use this feature with caution. Deactivating automatic switching and then forgetting it can make it hard for you to receive DSC calls.**

If you have unread incoming DSC calls, the radio displays a message icon. You will be able to review who has called. The radio displays the last 10 distress calls and the last 50 non-distress calls it received (see page E-23).

GPS FEATURES

GPS OPERATION OVERVIEW

Your GPS system provides more than just your specific location. The *MOB* (Man Overboard) menu lets you immediately save your current position so rescuers can converge on the exact man overboard location. The *Favorites* menus let you create a directory of favorite places and their coordinates so you can easily return there. Using the *GPS Setup* menus, you can determine power-saving options, measurement increments, and time settings.

The radio is factory-preset to search for your geographic location when it is turned on for the first time.

MOB MENU

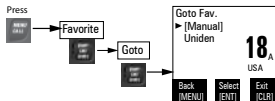
The *MOB* menu lets you quickly save your current selection so you can easily navigate back to it. It will be saved in the first position of the Favorites list.

FAVORITE MENU

The *Favorite* menu is comprised of the *Goto* menu and the *Add* menu. The *Goto* menu adds (saves) the current GPS position as well as recalls that position and others you have saved to sail back to it.

Goto Menu

The *Goto* menu allows you to select from a list of saved coordinates or to input coordinates manually.



To input coordinates

1. From the *Goto Fav.* screen, select *[Manual]*.
2. Manually input coordinates. When the last digit is entered, the screen displays *Go* and *Save*.
3. Select *Go* to display the coordinates and the compass bearing and begin traveling towards that destination.
4. Select *Save* to save the location into a Favorites directory. When you select *Save*, the screen prompts you to name these coordinates.
5. When you have entered a name for the saved coordinates, they will appear on the *Goto* screen as a selection.

To select a Goto entry

1. From the *Goto Fav.* screen, select from the directory entries listed.
2. The screen displays three options: *Go*, *Delete*, and *Edit*.
3. Select *Go* to display the coordinates and the compass bearing and begin traveling towards that destination.
Select *Delete* to delete the entry.
Select *Edit* to change the entry.

NMEA FEATURES

Your radio supports NMEA0183, a standard for data communication between marine instruments. If you are connected to a chartplotter and the radio receives another boat's position data (sentences) in a DSC call, the radio sends the position data to the chartplotter so you can see the location.

NMEA sentences contain different sets of data. The MHS235 supports the following sentences:

| DATA | RMC | GLL | GNS | GGA | ZDA |
|----------|-----|-----|-----|-----|-----|
| UTC Time | 0 | 0 | 0 | 0 | 0 |

| DATA | RMC | GLL | GNS | GGA | ZDA |
|------------------------|-----|-----|-----|-----|-----|
| Status (Valid/Invalid) | 0 | 0 | 0 | 0 | X |
| Latitude/Longitude | 0 | 0 | 0 | 0 | X |
| Speed | 0 | X | X | X | X |
| Course | 0 | X | X | X | X |
| Date | 0 | X | X | X | 0 |

The radio can output the following NMEA sentences:

GGA GSV DSC GSA RMC DSE

To connect to a chartplotter:



1. Connect the WHITE wire to the NMEA positive (+) output.
2. Connect the BLACK wire to the NMEA ground.
3. Connect the YELLOW wire to the NMEA positive (+) input.

✎ **NOTE:** Use waterproof tape to seal electrical connections.

ADDITIONAL FEATURES

RENAMING CHANNELS

If you discover that a marine radio channel has a different common name in your local area, you can change the name of that channel to make it easier for you to use (see the channel lists beginning on page E-33 for the default channel names). To rename a channel, follow the steps below:

1. Press **MENU/CALL** and select *Channel Name* from the *Normal* menu. The screen displays the list of channels.
2. Use **Channel Up** and **Channel Down** to choose the channel you want to change and press **DSP/ENT H/M/L**.
3. Select **Rename** to enter a new name for this channel. The radio prompts you to enter a new name for this channel. Each name can be up to 12 characters. Use **Channel Up** and **Channel Down** to change the name.
4. When you finish entering the name, the radio displays the new channel name and asks you to confirm. To save this new channel name, select **Save**; to cancel the

change, select *Exit*. The radio returns to the channel list.

- To restore a channel back to its original name, select the channel and choose *Default*.
- When you are satisfied with the channel list, select *Exit*.

MAINTENANCE AND TROUBLESHOOTING

Due to its rugged design, your radio requires very little maintenance. However, it is a precision electronic instrument, so you should follow a few precautions:

- If the antenna has been damaged, do not transmit except in an emergency situation. Doing so may cause further radio damage.
- You are responsible for continued FCC technical compliance of your radio.
- Arrange for periodic performance checks with your Uniden dealer.

COMMON QUESTIONS

| Problem | Things to Try |
|---|--|
| The radio won't turn on. | Charge the radio. |
| The power LED on the charger doesn't turn on. | <ul style="list-style-type: none">Don't use the charger when the ambient temperature is below 0° C (32° F) or above 45° C (113° F).Make sure the charging contacts on the radio and charger are clean.Replace the battery. |
| The radio won't transmit. | <ul style="list-style-type: none">Make sure you are not in Weather or Scan mode.Make sure you are not trying to transmit on a receive-only channel or transmit at the wrong power level for this channel (see the channel lists starting on page E-33).Check the battery power level; if it's low, charge the battery before trying to transmit.Make sure the duration of each transmission is less than 5 minutes. |
| I can't hear anything from the speaker. | Adjust the squelch level; it is probably too high. |
| Noise comes out of the speaker all the time | Adjust the squelch level; it is probably too low. |
| I can transmit, but no one can hear me. | Check your UIC channel settings: does the area you are in use different channel assignments? |
| I'm not getting hazard alerts. | Make sure Weather Alert Watch is turned on. |
| The display flashes, and I don't know why. | The channel number on the display will flash if the radio is in a Watch mode or in Scan mode. Try turning off scanning, Weather Alert Watch, Triple Watch, or Dual Watch beginning on page E-10. |
| Where can I find my radio's serial number? | The serial number is on a plate inside the battery compartment. |

SPECIFICATIONS

| General | |
|------------------------------|---|
| Channels | All US/International/Canada marine channels |
| | 9 Weather channels |
| Freq. Control | PLL |
| Freq. Tol. | Transmit: 1.5 PPM (at 77°F/25°C) |
| | Receive: 1.5 PPM (at 77°F/25°C) |
| Oper. Temp. | -4°F (-20°C) to +122°F(+50°C) |
| Antenna | Flexible Whip |
| Microphone | Built-in Electret type |
| Display | Liquid Crystal Display |
| Speaker | 8Ω 1.0 W |
| Power Source | Rechargeable Lithium Ion Battery 7.4V 1160 mAh |
| Size (without antenna) | 6.29 (H) x 2.40 (W) x 1.61 (D) inch |
| | 160 (H) x 61 (W) x 41 (D) mm |
| Weight | 10.9 oz (309g) (w/battery and antenna) |
| Transmitter | |
| Frequency Range | 156~158 MHz |
| Frequency Stability | ±2.5 PPM max |
| Power Output | 1W, 2.5W, and 6W |
| Spurious Emissions | -30 dBm @ HI; -30 dBm @ LO (nominal) |
| Current Drain | 1.5 A (6W) |
| Receiver | |
| Type | Double Conversion Super Heterodyne Phase Locked Loop system for Local Oscillator |
| Frequency Range | 156~164 MHz |
| Sensitivity | 0.24 μV for 12dB SINAD |
| Squelch Sensitivity | Threshold 0.2μV |
| Audio Frequency Response | +5.5 dB @ 500 Hz; -6 dB @ 2000Hz |
| Adjacent Channel Selectivity | 73 dB @ ±25 kHz |
| Audio Output Power | 1.0 W @MAX VOLUME |
| Current Drain | Squelched: 36mA; Max. Audio: 250mA |

CHANNELS AND FREQUENCIES (MHZ)

US channel frequencies and names

| US Marine Channels | | | | |
|--------------------|------------|------------|--------------|----------------------------------|
| Ch | RX Freq | TX Freq | Status | Name |
| 1A | 156.050 | 156.050 | Simplex | Vessel traffic system/commercial |
| 5A | 156.250 | 156.250 | Simplex | Vessel traffic system/commercial |
| 6 | 156.300 | 156.300 | Simplex | Inter-ship safety |
| 7A | 156.350 | 156.350 | Simplex | Commercial |
| 8 | 156.400 | 156.400 | Simplex | Commercial |
| 9 | 156.450 | 156.450 | Simplex | Non commercial |
| 10 | 156.500 | 156.500 | Simplex | Commercial |
| 11 | 156.550 | 156.550 | Simplex | Vessel traffic system |
| 12 | 156.600 | 156.600 | Simplex | Vessel traffic system |
| 13 | 156.650 | 156.650 | Simplex, 1W | Bridge to bridge |
| 14 | 156.700 | 156.700 | Simplex | Vessel traffic system |
| 15 | 156.750 | Inhibit | Receive only | Environmental |
| 16 | 156.800 | 156.800 | Simplex | Distress, safety, and calling |
| 17 | 156.850 | 156.850 | Simplex, 1W | Govt maritime control |
| 18A | 156.900 | 156.900 | Simplex | Commercial |
| 19A | 156.950 | 156.950 | Simplex | Commercial |
| 20 | 161.600 | 157.000 | Duplex | Port operation |
| 20A | 157.000 | 157.000 | Simplex | Port operation |
| 21A | 157.050 | 157.050 | Simplex | Coast guard only |
| 22A | 157.100 | 157.100 | Simplex | Coast guard |
| 23A | 157.150 | 157.150 | Simplex | Coast guard only |
| 24 | 161.800 | 157.200 | Duplex | Marine operator |
| 25 | 161.850 | 157.250 | Duplex | Marine operator |
| 26 | 161.900 | 157.300 | Duplex | Marine operator |
| 27 | 161.950 | 157.350 | Duplex | Marine operator |
| 28 | 162.000 | 157.400 | Duplex | Marine operator |
| 63A | 156.175 | 156.175 | Simplex | Vessel traffic system |
| 65A | 156.275 | 156.275 | Simplex | Port operation |
| 66A | 156.325 | 156.325 | Simplex | Port operation |
| 67 | 156.375 | 156.375 | Simplex, 1W | Bridge To Bridge |
| 68 | 156.425 | 156.425 | Simplex | Non Commercial |
| 69 | 156.475 | 156.475 | Simplex | Non Commercial |
| 70 | (156.5250) | (156.5250) | DSC Only | DSC |
| 71 | 156.575 | 156.575 | Simplex | Non Commercial |
| 72 | 156.625 | 156.625 | Simplex | Non Commercial (Ship-Ship) |
| 73 | 156.675 | 156.675 | Simplex | Port Operation |

| US Marine Channels | | | | |
|--------------------|---------|---------|-------------|----------------------------|
| Ch | RX Freq | TX Freq | Status | Name |
| 74 | 156.725 | 156.725 | Simplex | Port Operation |
| 75 | 156.775 | 156.775 | Simplex, 1W | Port Operation |
| 76 | 156.825 | 156.825 | Simplex, 1W | Port Operation |
| 77 | 156.875 | 156.875 | Simplex, 1W | Port Operation (Ship-Ship) |
| 78A | 156.925 | 156.925 | Simplex | Non Commercial |
| 79A | 156.975 | 156.975 | Simplex | Commercial |
| 80A | 157.025 | 157.025 | Simplex | Commercial |
| 81A | 157.075 | 157.075 | Simplex | Government |
| 82A | 157.125 | 157.125 | Simplex | Government |
| 83A | 157.175 | 157.175 | Simplex | Coast Guard |
| 84 | 161.825 | 157.225 | Duplex | Marine Operator |
| 85 | 161.875 | 157.275 | Duplex | Marine Operator |
| 86 | 161.925 | 157.325 | Duplex | Marine Operator |
| 87 | 157.375 | 157.375 | Simplex | Marine Operator |
| 88 | 157.425 | 157.425 | Simplex | Commercial (Ship-Ship) |

Canadian channel frequencies and names

| Canadian Marine Channels | | | | |
|--------------------------|---------|---------|-------------|---------------------------|
| Ch | RX Freq | TX Freq | Status | Name |
| 1 | 160.650 | 156.050 | Duplex | Marine Operator |
| 2 | 160.700 | 156.100 | Duplex | Marine Operator |
| 3 | 160.750 | 156.150 | Duplex | Marine Operator |
| 4A | 156.200 | 156.200 | Simplex | Canadian Coast Guard |
| 5A | 156.250 | 156.250 | Simplex | Vessel Traffic System |
| 6 | 156.300 | 156.300 | Simplex | Inter-Ship Safety |
| 7A | 156.350 | 156.350 | Simplex | Commercial |
| 8 | 156.400 | 156.400 | Simplex | Commercial |
| 9 | 156.450 | 156.450 | Simplex | Boater Calling Channel |
| 10 | 156.500 | 156.500 | Simplex | Commercial |
| 11 | 156.550 | 156.550 | Simplex | Vessel Traffic System |
| 12 | 156.600 | 156.600 | Simplex | Vessel Traffic System |
| 13 | 156.650 | 156.650 | Simplex, 1W | Bridge To Bridge |
| 14 | 156.700 | 156.700 | Simplex | Vessel Traffic System |
| 15 | 156.750 | 156.750 | Simplex, 1W | Environmental |
| 16 | 156.800 | 156.800 | Simplex | Distress, safety, calling |
| 17 | 156.850 | 156.850 | Simplex, 1W | State Control |
| 18A | 156.900 | 156.900 | Simplex | Commercial |
| 19A | 156.950 | 156.950 | Simplex | Canadian Coast Guard |
| 20 | 161.600 | 157.000 | Duplex, 1W | Port Operation |
| 21A | 157.050 | 157.050 | Simplex | Canadian Coast Guard |

| Canadian Marine Channels | | | | |
|--------------------------|------------|------------|-------------|----------------------|
| Ch | RX Freq | TX Freq | Status | Name |
| 22A | 157.100 | 157.100 | Simplex | Canadian Coast Guard |
| 23 | 161.750 | 157.150 | Duplex | Marine Operator |
| 24 | 161.800 | 157.200 | Duplex | Marine Operator |
| 25 | 161.850 | 157.250 | Duplex | Marine Operator |
| 26 | 161.900 | 157.300 | Duplex | Marine Operator |
| 27 | 161.950 | 157.350 | Duplex | Marine Operator |
| 28 | 162.000 | 157.400 | Duplex | Marine Operator |
| 60 | 160.625 | 156.025 | Duplex | Marine Operator |
| 61A | 156.075 | 156.075 | Simplex | Canadian Coast Guard |
| 62A | 156.125 | 156.125 | Simplex | Canadian Coast Guard |
| 63A | 156.175 | 156.175 | Simplex | Port Operation |
| 64 | 160.825 | 156.225 | Duplex | Marine Operator |
| 64A | 156.225 | 156.225 | Simplex | Port Operation |
| 65A | 156.275 | 156.275 | Simplex | Port Operation |
| 66A | 156.325 | 156.325 | Simplex, 1W | Port Operation |
| 67 | 156.375 | 156.375 | Simplex | Bridge To Bridge |
| 68 | 156.425 | 156.425 | Simplex | Non Commercial |
| 69 | 156.475 | 156.475 | Simplex | Non Commercial |
| 70 | (156.5250) | (156.5250) | DSC Only | DSC |
| 71 | 156.575 | 156.575 | Simplex | Non Commercial |
| 72 | 156.625 | 156.625 | Simplex | Non Commercial |
| 73 | 156.675 | 156.675 | Simplex | Port Operation |
| 74 | 156.725 | 156.725 | Simplex | Port Operation |
| 75 | 156.775 | 156.775 | Simplex, 1W | Port Operation |
| 76 | 156.825 | 156.825 | Simplex, 1W | Port Operation |
| 77 | 156.875 | 156.875 | Simplex, 1W | Port Operation |
| 78A | 156.925 | 156.925 | Simplex | Inter Ship |
| 79A | 156.975 | 156.975 | Simplex | Inter Ship |
| 80A | 157.025 | 157.025 | Simplex | Inter Ship |
| 81A | 157.075 | 157.075 | Simplex | Canadian Coast Guard |
| 82A | 157.125 | 157.125 | Simplex | Canadian Coast Guard |
| 83 | 161.775 | 157.175 | Duplex | Canadian Coast Guard |
| 83A | 157.175 | 157.175 | Simplex | Canadian Coast Guard |
| 84 | 161.825 | 157.225 | Duplex | Marine Operator |
| 85 | 161.875 | 157.275 | Duplex | Marine Operator |
| 86 | 161.925 | 157.325 | Duplex | Marine Operator |
| 87 | 157.375 | 157.375 | Simplex | Port Operation |
| 88 | 157.425 | 157.425 | Simplex | Port Operation |

International channel frequencies and names

| Ch | RX Freq | TX Freq | Status | Name on display |
|-----------|----------------|----------------|---------------|---------------------------|
| 1 | 160.6500 | 156.0500 | Duplex | Marine operator |
| 2 | 160.7000 | 156.1000 | Duplex | Marine operator |
| 3 | 160.7500 | 156.1500 | Duplex | Marine operator |
| 4 | 160.8000 | 156.2000 | Duplex | Marine operator |
| 5 | 160.8500 | 156.2500 | Duplex | Marine operator |
| 6 | 156.3000 | 156.3000 | Simplex | Inter-ship safety |
| 7 | 160.9500 | 156.3500 | Duplex | Marine operator |
| 8 | 156.4000 | 156.4000 | Simplex | Commercial (ship-ship) |
| 9 | 156.4500 | 156.4500 | Simplex | Boater calling channel |
| 10 | 156.5000 | 156.5000 | Simplex | Commercial |
| 11 | 156.5500 | 156.5500 | Simplex | Vessel traffic system |
| 12 | 156.6000 | 156.6000 | Simplex | Vessel traffic system |
| 13 | 156.6500 | 156.6500 | Simplex | Bridge to bridge |
| 14 | 156.7000 | 156.7000 | Simplex | Vessel traffic system |
| 15 | 156.7500 | 156.7500 | Simplex, 1W | Environmental |
| 16 | 156.8000 | 156.8000 | Simplex | Distress, Safety, Calling |
| 17 | 156.8500 | 156.8500 | Simplex, 1W | Govt maritime control |
| 18 | 161.5000 | 156.9000 | Duplex | Port operation |
| 19 | 161.5500 | 156.9500 | Duplex | Commercial |
| 20 | 161.6000 | 157.0000 | Duplex | Port operation |
| 21 | 161.6500 | 157.0500 | Duplex | Port operation |
| 22 | 161.7000 | 157.1000 | Duplex | Port operation |
| 23 | 161.7500 | 157.1500 | Duplex | Marine operator |
| 24 | 161.8000 | 157.2000 | Duplex | Marine operator |
| 25 | 161.8500 | 157.2500 | Duplex | Marine operator |
| 26 | 161.9000 | 157.3000 | Duplex | Marine operator |
| 27 | 161.9500 | 157.3500 | Duplex | Marine operator |
| 28 | 162.0000 | 157.4000 | Duplex | Marine operator |
| 60 | 160.6250 | 156.0250 | Duplex | Marine operator |
| 61 | 160.6750 | 156.0750 | Duplex | Marine operator |
| 62 | 160.7250 | 156.1250 | Duplex | Marine operator |

| Ch | RX Freq | TX Freq | Status | Name on display |
|-----|------------|------------|-------------|----------------------------|
| 63 | 160.7750 | 156.1750 | Duplex | Marine operator |
| 64 | 160.8250 | 156.2250 | Duplex | Marine operator |
| 65 | 160.8750 | 156.2750 | Duplex | Marine operator |
| 66 | 160.9250 | 156.3250 | Duplex | Marine operator |
| 67 | 156.3750 | 156.3750 | Simplex | Bridge to bridge |
| 68 | 156.4250 | 156.4250 | Simplex | Non commercial |
| 69 | 156.4750 | 156.4750 | Simplex | Non commercial |
| 70 | (156.5250) | (156.5250) | DSC Only | DSC |
| 71 | 156.5750 | 156.5750 | Simplex | Non commercial |
| 72 | 156.6250 | 156.6250 | Simplex | Non commercial |
| 73 | 156.6750 | 156.6750 | Simplex | Port operation |
| 74 | 156.7250 | 156.7250 | Simplex | Port operation |
| 75 | 156.7750 | 156.7750 | Simplex, 1W | Port operation |
| 76 | 156.8250 | 156.8250 | Simplex, | Port operation |
| 77 | 156.8750 | 156.8750 | Simplex | Port operation (ship-ship) |
| 78 | 161.5250 | 156.9250 | Duplex | Port operation |
| 79 | 161.5750 | 156.9750 | Duplex | Port operation |
| 80 | 161.6250 | 157.0250 | Duplex | Port operation |
| 81 | 161.6750 | 157.0750 | Duplex | Port operation |
| 82 | 161.7250 | 157.1250 | Duplex | Port operation |
| 83 | 161.7750 | 157.1750 | Duplex | Port operation |
| 84 | 161.8250 | 157.2250 | Duplex | Marine operator |
| 85 | 161.8750 | 157.2750 | Duplex | Marine operator |
| 86 | 161.9250 | 157.3250 | Duplex | Marine operator |
| 87* | 157.3750 | 157.3750 | Simplex | Marine operator |
| 88* | 157.4250 | 157.4250 | Simplex | Marine operator |

Weather channel frequencies and names

| Channel | RX | Channel | RX |
|---------|----------|---------|----------|
| WX01 | 162.5500 | WX06 | 162.5000 |
| WX02 | 162.4000 | WX07 | 162.5250 |
| WX03 | 162.4750 | WX08 | 161.6500 |
| WX04 | 162.4250 | WX09 | 161.7750 |
| WX05 | 162.4500 | | |

REGULATIONS AND SAFETY WARNINGS

WARNING! Read this information before using the radio.

MARITIME RADIO SERVICES OPERATION

Warning! This transmitter will operate on channels/frequencies that have restricted use in the United States. The channel assignments include frequencies assigned for exclusive use of the U.S. Coast Guard, use in Canada, and use in international waters. Operation on these frequencies without proper authorization is strictly forbidden. See page E-33 for tables of the available channels and their uses. If you are still not certain which channels to use, see the FCC maritime radio page at the FCC website

(<http://wireless.fcc.gov/marine/>) or contact the FCC Call Center at 1-888-CALL-FCC. For individuals requiring a license, such as commercial users, you should obtain a license application from your nearest FCC field office (for US users) or Industry Canada (for Canadian users).

BASIC RADIO GUIDELINES

You should familiarize yourself with the rules on marine radios and be aware of which rules apply to your boat. Complete guidelines for all ship and marine radio types can be found at the US Coast Guard website under the topic Radio Info for Boaters (the direct link is <http://www.navcen.uscg.gov/?pageName=mtBoater>). Here are a few guidelines that affect nearly all boaters.

- If you have a VHF radio on your boat, you must maintain a watch on channel 16 (156.800 MHz) whenever the radio is not being used to communicate. Starting in 2004, if a radio is carried, it must be on and set to channel 16. Whenever your boat is underway.
- If you hear a distress call, wait a few minutes to let a shore station or Coast Guard vessel respond. If no other station has responded after 5 minutes, you must respond to the distress call.
- Do not make false mayday or distress calls as a prank or to test your radio. (This is essentially like making a false 9-1-1 call; you may be subject to fines.)

FCC/Industry Canada Information

Certification: FCC Part 80 or RSS-182

Output Power: 6W

Emission: 16K0F3E

Transmitter Frequency Range: 156.025-157.425 MHz

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

Unauthorized changes or modifications to this equipment may void compliance with the FCC Rules. Any change or modification must be approved in writing by Uniden. Changes or modifications not approved by Uniden could void the user's authority to operate the equipment.

FCC RF Exposure Information

In August 1996 the Federal Communications Commission (FCC) of the United States with its action in Report and Order FCC 96-326 adopted an updated safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated transmitters. Those guidelines are consistent with the safety standard previously set by both U.S. and international standards bodies. The design of the radio complies with the FCC guidelines and these international standards.

Never allow children to operate the radio without adult supervision and the knowledge of the follow-

ing guidelines.

WARNING! It is up to the user to properly operate this radio transmitter to insure safe operation. Please adhere to the following:

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the radio, or violate FCC regulations.

Do not use the radio with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for a replacement antenna.

To maintain compliance with FCC RF exposure requirements, the radio must be used with a maximum duty cycle not exceeding 50% in a typical push-to-talk radio use time. DO NOT transmit for more than 50% of total radio use time.

Body-Worn Operation

This device was tested for typical body-worn operations using the supplied belt-clip. To maintain compliance with FCC RF exposure requirements, body-worn operations are restricted to the supplied belt-clip. For hand-held operation, the radio should be held 1 inch from the user's face. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements and should be avoided. For more information about RF exposure, please visit the FCC website at www.fcc.gov.

Lithium Ion Battery Warning

This equipment contains a rechargeable Lithium Ion battery. The rechargeable Lithium Ion battery contained in this equipment may explode if disposed of in a fire.

Do not short-circuit the battery.

Do not charge the rechargeable battery used in this equipment in any charger other than the one specified in the owner's manual. Using another charger may damage the battery or cause the battery to explode.

NOTE: Li-Ion batteries must be recycled or disposed of properly.

Avoid exposing the battery (whether attached to the radio or not) to direct sunlight, heated cars, or temperatures below -4°F (-20°C) or above +140°F (+60°C). Exposing the chemical contained within the battery pack to temperatures above +140°F (+60°C) may cause the battery to rupture, fail, or reduce performance.

In case of exposure to the cell contents, wash the affected area thoroughly, and seek medical attention.

RBRC INFORMATION

As part of our commitment to protect the environment and conserve natural resources, Uniden voluntarily participates in an RBRC® industry program to collect and recycle used Li-Ion batteries within the US.

Please call 1-800-8-BATTERY for information on Li-Ion battery recycling in your area.

(RBRC® is a registered trademark of the Rechargeable Battery Recycling Corporation.)



THREE YEAR LIMITED WARRANTY

WARRANTOR: UNIDEN AMERICA CORP. ("Uniden")

ELEMENTS OF WARRANTY: Uniden warrants, for three years, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or ex-

clusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate and be of no further effect 36 months after the date of original retail sale. The warranty is invalid if the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the Operating Guide for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will repair the defect and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its representatives in connection with the performance of this warranty. THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in this Operating Guide you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, or delivered, to warrantor at:

Uniden America Corporation
Parts and Service Division
4700 Amon Carter Boulevard
Fort Worth, TX, 76155
(800) 554-3988



QUESTIONS?

Visit our website at
www.uniden.com or
call 1-800-297-1023.

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appelez 1-800-297-1023.