Uniden®

MHS338BT

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*** key for three seconds. Your radio transmits your ship's location every few minutes until you receive a response.

Lift the red cover and press the white DISTRESS button underneath.

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 ship's name & call sign here:

1. Make sure your radio is on.
2. Press the ***16/P*** key to switch to Channel 16 (156.8 MHz). (If the corner of the display does not show 16, press the ***16/P*** key again until it does.)
3. Press the ***PUSH-TO-TALK*** key and say: "**MAYDAY -- MAYDAY -- MAYDAY**."
4. Say "**THIS IS {name of your ship (three times)} and call sign/ship registration number (once).**"
5. Repeat "**MAYDAY {name of your ship}**" 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 ship}, OVER.**"
14. Release the ***PUSH-TO-TALK*** key 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 et appuyez sur le bouton ***DISTRESS*** blanc en dessous.

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/P*** 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/P*** 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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UNIDEN®

FLOATING VHF MARINE RADIO

MHS338BT

INTRODUCTION

Uniden's MHS338BT is a floating, hand-held class D DSC radio with an integrated GPS receiver. It is also Bluetooth-capable so you can use Uniden's smartphone app (iOS and Android) to set up the radio and to text message other VHF text message capable radios. You can also enter other information such as DSC directory information.

FEATURES

Your radio provides the following key features:

- **10 weather channels** available for monitoring
- All Channel Scan
- All marine VHF channels for the U.S., Canada, and international waters
- **Backlight Level** (Off + 8 steps) and **Backlight Color Select** (White, Amber)
- **Battery level display** and **low battery alert**
- **Channel Name.** 16 character maximum
- **Class D second receiver** is dedicated to monitoring the DSC watch channel 70 to ensure that no incoming messages are missed.
- **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.
- **DSC**. Lets you call other ships or groups using their unique identification code (MMSI). This radio complies with International Class D DSC standards for handheld GPS/VHF marine transceivers.
- **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.
- **Emergency Channel (16) Monitoring**. Check this emergency channel while scanning..
- **GPS (Favorite Position mode).** Lets you save your current position as well as manually enter other positions. You can save positions into a directory to return to them as desired.
- **High/LO power level select.** Lets you boost the transmitter power from 1.0W to 2.5W to 6.0W for added transmission distance.
- **Inactivity Timer.** Set timer to exit from the menu screen after 1, 2, 3, 5, 8, or 10 minutes of inactivity.
- **Key Beep Control.** Off + 7 steps
- **Key Lock**. Locks keys to prevent accidentally changing channels or entering data.
- **LCD Contrast Control.** 15 Steps
- **LCD** and **Key Backlight/Flashlight/SOS Strobe**. Pressing the ***Light/Lock***

(☼/*LOCK)* key initiates various light options (see page E-8).

- **Memory Scan mode.** Lets you save channels to memory and monitor them in quick succession.
- **MOB** (Man Overboard). Lets you lock onto the current position when a Man Overboard situation occurs. Water-activated automatic MOB is also featured.
- **National Oceanic and Atmospheric Administration (NOAA) Weather Channel watch.** Sounds a warning tone when a hazard alert is issued.
- **Navigation**
  - Waypoint Navigation (250 directory inputs maximum)
  - Route Navigation (Maximum 10 directories, 10 Waypoints per directory)
  - Man Overboard. Lets you lock onto the current position when a Man Overboard situation occurs.
  - Mark Position.
  - Selectable Arrival, Display, and Ranges
- **NMEA0183 Output**. Lets you connect to an NMEA0183-compatible chartplotter.
- **Selectable Backlight Timer**. Lets you select the length of time the backlight will be on.
- **Scan Pause Timer**. 1, 2, 3, 4, 5, or 10 seconds
- **Soft Key Assignability**
- **SOS Strobe Light**
- **Squelch control.** Open and 15 steps
- **Submersible design**. Complies with floating JIS8/IPX8 water-resistant standards, which means the radio can be submerged in 4.9 feet of water for up to 30 minutes 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 alkaline battery 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. Scroll to and press the **SPKR** soft key; the radio sounds a tone to clear excess water. The sound should return to normal.

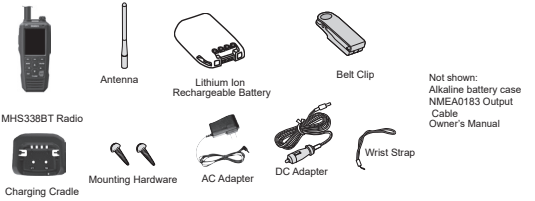
If your radio is exposed to salt water, clean it thoroughly with fresh water and dry it before turning it on.

The charger is not waterproof.

- **Text Messaging.** Text messaging through Uniden's Marine II app via Bluetooth function.
- **Water Removal Tone.** Special tone to remove water from speaker.

WHAT'S INCLUDED

NOTE: Some of the graphics in this manual may vary slightly from the actual product.



If any pieces are missing or damaged, contact Customer Service at **www.uniden.com**.

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 LITHIUM ION BATTERY

Your radio comes with a rechargeable Lithium-Ion battery; for shipping safety, the battery is not installed at the factory.

1. Insert the hook on the Li-Ion battery into the notch at the top of the radio's battery compartment.
2. Lower the battery until it rests flat in the compartment.
3. Bring the battery latch up and snap it into place.

USING THE ALKALINE BATTERY TRAY

The radio also comes with an alkaline battery tray that holds four AAA-type alkaline batteries (not included). You can use alkaline batteries as a backup for the Li-Ion battery so you can still use your radio while your Li-Ion battery is recharging.

When using alkaline batteries, transmit power is limited to a maximum of 2.5W.

Follow these steps to use the alkaline 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

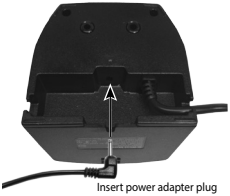
drawing on the tray and snap each battery into place.

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 alkaline battery tray in your radio just as you do the Li-Ion battery (see page E-5).

NOTE: The tray is designed to prevent the accidental charging of alkaline batteries.

CONNECTING POWER

Plug the AC or DC Power Adapter into the charger through a slot on the bottom of the charger.



Insert power adapter plug into the adapter jack.

MOUNTING THE CHARGER

Connect power to the charger before mounting the charger into position.

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 (3 mm) drill bit, drill two holes 1/2 inch (13 mm) deep.
3. Use the provided screws to attach the charger to the surface.

NOTE: 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. You can recharge the battery pack in the charger by itself or installed in the radio. Being able to charge the battery pack by itself is especially useful if you purchase a second rechargeable battery; you can always have a charged battery available.

Charging the Radio with Battery Pack Installed

1. Insert the radio into the charger, making sure that it slots into the guide bars and the CHARGE LED on the charger turns red (charging).
2. The battery is fully charged when the LED turns green.

Charging the Battery Pack Only

1. Unlatch the battery pack from the radio case. Remove it.
2. Insert the battery pack into the charger, making sure that it slots into the guide bars and the CHARGE LED on the charger turns red (charging).
3. The battery is fully charged when the LED turns green.

Cautions:

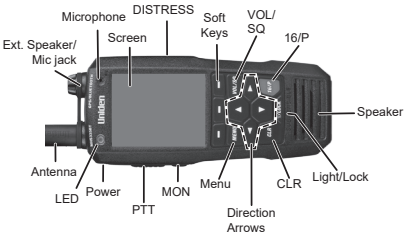
- Use only the battery pack and charger supplied with this radio. Using a different charger or battery pack can damage the radio and create a risk of fire or shock.
- The charger is not waterproof. If the charger falls into the water, unplug it before attempting to remove it from the water. After you 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 32° F (0° C) or above 113° F (45° C).
- If the radio is powered down, the battery can charge in about five hours. If the radio is powered on, the battery takes longer to charge.

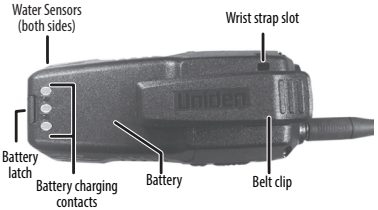
PARTS OF THE MHS338BT

Front View

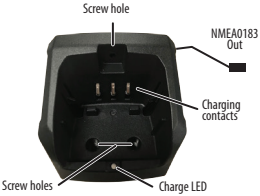


Key	Press to...	Press and hold to...
POWER	N/A	Turn radio on and off.
PTT (Push-to-Talk)	N/A	Transmit on current TX power.
MON (Monitor)	Briefly open squelch to listen to the current channel.	Enter into Squelch Open mode and listen to the current channel. Press again to exit.
Soft Function Keys (3)	Activate function assigned to that key. Function displays on screen above key. See page E-18.	NA
MENU	Open the menus or return to the previous menu item.	NA
◄ / ▲ / ► / ▼	- Move curser left, up, right, or down on a screen.	NA
CLR	Returns to the IDLE screen.	NA
Light/LOCK (☼***/LOCK)***	- Press once to activate the LCD and key backlight. - Press twice to activate LED steady on (Flashlight). - Press three times to activate the SOS strobe light. - Press a fourth time to turn the LED and backlight off.	Lock/unlock key input to prevent input errors.
16/P	Cycle through call channel, channel 16, priority channel, and back to the starting channel.	NA
VOL/SQ	Press once to adjust volume. Press twice to adjust squelch.	
DISTRESS	Activate DISTRESS screen.	Send out distress signal.

Back View



Charger



NMEA Output Cable

Wire Color	Description	Connects to...
White	NMEA Out (+)	NMEA Data In (+) on Chartplotter
Brown	NMEA Out (-)	NMEA Data In (-) on Chartplotter
Yellow	NC	
Black	NC	

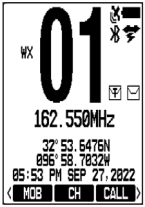
HOW IT WORKS

The MHS338BT uses a 3-part operating structure: Menus, Soft Keys, and a pop-up keyboard. These elements work with each other to quickly set up and operate your radio.

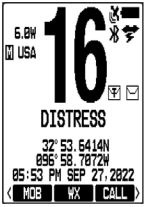
- Menus - Press the ***MENU*** key to access the menus (see page E-12).
- Soft Keys - The soft keys relate to the three keys on the bottom of the screen. Many of these keys can access functions that are set up through the menus (see page E-18).
- Pop-Up Keyboard - Some of the menus and soft keys require alphanumeric input; the radio brings up various keyboards depending on the input required. You can change the keyboard from alphanumeric characters to special characters.

IDLE SCREEN

The Idle screen shows different information depending on what you are doing. Not all icons display on every screen. These dummy Idle screens (Channel and Weather Channel) display many of the possible icons. The table below shows possible icons and what they mean.



Weather Channel Screen



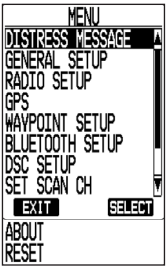
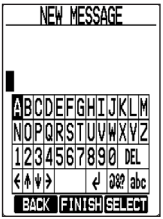
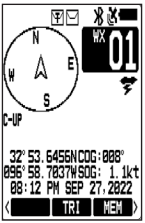
Channel Idle Screen

Display Icons and What They Mean

Icon	What it means
	Battery level
USA	Channel mode (USA, INTL, or CAN). Does not display in Weather Mode.
	Displays when there are unread messages in the Text Message Log.
	Displays when there are unread messages in the DSC Log.
	Displays when Weather Alert is activated.
ALT	Displays when a weather alert is received.
	Flashes when acquiring; solid when acquired.
	Displays when Bluetooth is turned on.
1.0W, 2.5W, or **6.0W**	Power output. Does not display in Weather Mode.
TX or **BUSY**	Indicates Transmitting (TX) or Receiving (BUSY). TX is disabled in Weather mode and does not display.
Various Text	Channel Name
Soft Key #3	Name of soft key (see page E-18).
Soft Key #2	Name of soft key (see page E-18).
Soft Key #1	Name of soft key (see page E-18).
GPS Data	Latitude, Longitude, Time, and Date at current position.

Icon	What it means
WX	Displays when Weather mode active. Does not display in Channel Mode.
MEM	Displays when a channel is saved into memory. Does not display in Weather Mode.
TRI (or **DUAL**)	Displays **TRI** (Triple) or **DUAL** (Dual) watch mode as set in Menus. Does not display in Weather Mode.
Channel Number	Current channel number.

TYPES OF SCREENS

MENU SCREEN	KEYBOARD SCREEN	COMPASS SCREEN
		
Various menus let you access radio settings and functions using a combination of controls, such as the ▲, ▼, ►, and ◄ keys or dynamic soft key options that appear.	Keyboard screens appear when a setting requires a text entry. Use the ▲, ▼, ►, and ◄ keys and dynamic soft key options that appear with the keyboards to enter text.	The compass screen appears when you press the **COMP** soft key. Its appearance will vary depending on your unique radio settings.

USING THE POP UP KEYBOARD

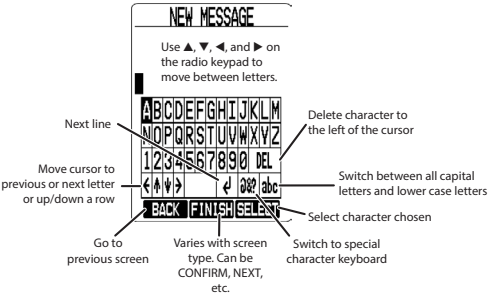
When you need to enter text, a digital keyboard pops up. "Type" on this keyboard by using the ▲, ▼, ►, and ◄ keys on the radio's keypad to move a cursor through the keyboard. Choose **SELECT** to select that character and move to the next letter.

- The **ABC/abc** key switches between capital and lower case letters.
- Select the **@&?** key to switch to the special character keyboard. Select **ABC/abc** to switch back to the alphanumeric keyboard.
- After using the ▲, ▼, ►, and ◄ keys on the radio's keypad to select a letter, choose **SELECT** to "type" the letter. The letter then displays on the screen.
- Select the ◄ and ► keys to move the cursor backwards or forwards in the entry to

add a letter, etc.

- Select **ENTER** to move the cursor to the next line.
- Select **DEL** to delete the character to the left of the cursor.

NOTE: Keyboard layout may change slightly depending on previous selections.

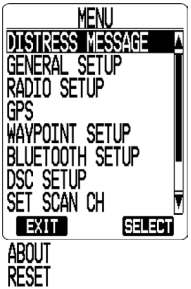


MENUS

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*** key accesses menus that let you set the way your radio operates.

Use the UP (▲) and DOWN (▼) keys to scroll through the menu options. Choose the **SELECT** soft key to select and go to that menu.



MAIN Menu

MENU	DESCRIPTION	REF. PAGE
DISTRESS MESSAGE	Opens a submenu to select a distress message type to transmit when you press the radio's ***DISTRESS*** button. See inside front cover of this manual for detailed instructions on how to make a distress call.	Page E-13
GENERAL SETUP	Allows basic radio configuration setup such as backlight and key beep functions, etc.	Page E-14
RADIO SETUP	Accesses settings for radio functions, such as priority and weather alert watches.	Page E-15
GPS	Your GPS system provides more than just your specific location. You can determine power-saving options, measurement increments, and time settings.	Page E-16
WAYPOINT SETUP	Waypoints (landmarks) mark specific points between two locations. They serve as directional indicators.	Page E-16
BLUETOOTH SETUP	Accesses basic configuration of Bluetooth functions.	Page E-16
DSC SETUP	Accesses settings for Digital Selective Calling functions, such as setting up contacts for ship-to-ship and group communications.	Page E-17
SET SCAN CH	Lets you turn scanning on or off for specific channels. (Default = Off)	Page E-18
ABOUT	Displays the model number, software and hardware versions and MMSI number.	Page E-18
RESET (To Factory Defaults)	Resets factory defaults, except for the MMSI number.	Page E-18

DISTRESS MESSAGE *Menu*

Select a distress message type to transmit when you use the ***DISTRESS*** key on the side of the radio. See page E-48 for information on how to select and send a distress message.

MENU ITEM	DESCRIPTION
UNDESIGNATED	Send this message type when you, your crew, and/or your ship are in clear danger and there is no time to search for a more inclusive designation to use.

MENU ITEM	DESCRIPTION
FIRE, EXPLOSION	Send this message type if there has been an explosion or a fire on the ship and you are in immediate danger.
FLOODING	Send this message type if your ship is taking on water and you are in immediate danger.
COLLISION	Send this message type if your ship has collided with another ship or obstruction.
GROUNDING	Send this message type if the ship has run aground.
CAPSIZING	Send this message type if the ship is capsizing.
SINKING	Send this message type if the ship is sinking.
ADRIFT	Send this message type if the ship is adrift and unable to navigate on its own.
ABANDONING SHIP	Send this message type if you and the crew must evacuate the ship.
PIRACY	Send this message type if your ship is under attack or unauthorized boarding.
MAN OVERBOARD	Use this message type if someone has gone overboard and you are unable to assist/locate them.

Distress messages are always transmitted on channel 70 at maximum RF power (6W).

NOTE: Since CH70 is a DSC-only channel, you cannot select it with the CH button.

GENERAL SETUP *Menu*

You can set up how your radio operates through the **GENERAL SETUP** menu. (Refer to page E-21 for detailed radio setup procedures.)

MENU ITEM	DESCRIPTION
BACKLIGHT	Set how bright and what color the backlight is and how long the backlight stays on (see page E-22). - Backlight level: Off, 1 - 8 (Default = 6). - Backlight Color: White or Amber - Backlight Timeout: 5 sec, 10 sec, 30 sec, 1 min, 5 min, or Always On
CONTRAST/RVS	Set how dark the screen images are against the background. Contrast levels are 1 - 15 (Default = 6). (See page E-22.) The contrast level changes as you scroll through the options. Soft keys change to **BACK**, **RVS**, and **SELECT**. Press **RVS** to reverse the background and foreground contrast.

MENU ITEM	DESCRIPTION
KEY BEEP	Select a key beep volume level (1 - 7) or turn key beep off.
SOS STROBE	The LED on the front of the radio acts as a strobe light. Set water activation and timeout duration here. Timeout durations are: 10 sec, 20 sec, 30 sec, or 1 min.
INACTIVITY TIMER	Set how long the radio remains inactive before it times out. Timeout lengths are: 1, 2, 3, 5, 8, or 10 min.
KEY ASSIGNMENT	Reassign soft key functions to different soft keys. (See page E-18 for details.)

RADIO SETUP *Menu*

Use the *RADIO SETUP* menu to fine tune how the radio will operate. For example, you can rename channels, set channel modes, etc.

MENU ITEM	DESCRIPTION
CHANNEL MODE	Setting the UIC Channel mode (USA/CAN/INTL) You can select marine channels for the USA, Canada, or International waters. 1. Press ***MENU***, then select **RADIO SETUP/CHANNEL MODE**. The **CHANNEL MODE** screen displays 2. Select **USA**, **CAN**, or **INTL** and press **SELECT** soft key.
WEATHER RADIO	Turn weather alerts on or off (see page E-28) and add, edit, or delete S.A.M.E. FIPS codes (see page E-29).
DUAL/TRI WATCH	Toggle between Dual and Triple Watch activation (see page E-30).
PRIORITY CHANNEL	Select a channel to be the priority channel for Triple Watch and EMG mode. (See page E-30.)
SCAN PAUSE TIMER	Set how long scanning will pause after the channel is cleared. Scan Pause durations are: 1, 2, 3, 4, 5, or 10 sec.
CHANNEL NAME	Rename a channel. 1. Press ***MENU***, then select **RADIO SETUP/CHANNEL NAME**. The **CHANNEL NAME** screen displays 2. Use the ▲ and ▼ keys to select a channel. Then press ***RENAME***. 3. The **CHANNEL NAME** text edit screen displays. Enter the new channel name using the ▲, ▼, ►, and ◄ keys. Press ***SELECT*** after each letter entry and then ***SAVE*** when finished.

MENU ITEM	DESCRIPTION
NOISE CANCEL	Activate noise cancelling for received or transmitted signals.
RECEIVE AUDIO PITCH	Set receiving audio pitch. - Normal - Mid Range - High Boost - Low Boost

GPS *Menu*

The GPS section on page E-50 provides an overview of the GPS menu options and how they work.

WAYPOINT SETUP *Menu*

Waypoints (also called landmarks) mark specific points in traveling between locations. They serve as directional indicators. For example, once you reach a specific waypoint, you need to adjust your course to reach the next waypoint (and, as you continue, your destination). See page E-53 for details on setting up waypoints.

You can also create a route using specific waypoints saved in the Waypoint Directory. See page E-55 for details on creating and using routes.

MENU ITEM	DESCRIPTION
WAYPOINT DIRECTORY	Add, edit, and delete a Waypoint's name, latitude, and longitude.
ROUTE DIRECTORY	This menu uses the waypoints created in the Waypoint Directory to create a navigation course (route) between starting and ending points. (See page E-55.)
ROUTING METHOD	Select **AUTO** or **MANUAL** to determine how the vessel navigates to the next destination in the route. AUTO - When the vessel arrives at the destination, it automatically displays the next destination in the route. MANUAL - When the vessel arrives at the destination, it prompts for the user to manually select the next destination.
DISPLAY RANGE	Sets the distance displayed on the Compass screen.
ARRIVAL ALARM	Enter the distance at which you want the radio to alert you that you are close to the destination.

BLUETOOTH *Menu*

Smart phones can discover your radio when you turn Bluetooth on with this menu. You can also change your radio's broadcast identifier (name).

NOTE: BT Radio Set on the TXT soft key menu can also turn the Bluetooth function on and off.

MENU ITEM	DESCRIPTION
BT RADIO	Turn the Bluetooth function on and off.
FRIENDLY NAME	Create a name for your radio; this will identify you when you use the UNIDEN Marine II app (see page E-50).

DSC SETUP *Menu*

You can configure your DSC operation through this menu.

MENU ITEM	DESCRIPTION
RADIO MMSI NUMBER	Displays the radio's 9-digit MMSI number if it was set at initial start-up. Allows MMSI number entry if it was not set at initial start-up (see page E-21).
CURRENT POSITION	Select **CURRENT POSITION** to verify your current position or to enter it manually.
INDIVIDUAL DIR.	Create an individual directory entry for a vessel by using the vessel's MMSI number and a unique name. Edit and delete these entries (See page E-34.)
GROUP DIRECTORY	Create a Group MMSI number and share it with other ships to create a Group (see page E-35.)
INDIVIDUAL REPLY	Set whether incoming individual calls, position requests, and test calls receive an automatic acknowledgement or must be acknowledged manually.
INDIVIDUAL ACK	Select **ABLE** to allow individual acknowledgement messages to be automatically sent or **UNABLE** to prevent them from sending.
INDI. CALL RING	Set the amount of time a call will ring before it times out. Options are 5 sec, 10 sec, 15 sec, 1 min, or 2 min.
AUTO MOB SET	Turn Auto MOB on and off. If the radio falls into the water and Auto MOB is ON, the radio displays MOB information and the strobe light flashes. If Auto MOB is OFF, the radio still flashes the strobe light but does not collect MOB data.
WAIT FOR POS FIX	Set how long the radio waits to transmit a distress call without valid position data. Options are 15 sec, 30 sec, 45 sec, 1 min, 2 min, or 5 min.

MENU ITEM	DESCRIPTION
AUTO POLLING TIME	When Auto Polling is activated, set the interval for sending or receiving location information. Options are 30 sec, 1 min, 2 min, 3 min, or 5 min.
AUTO POS POLLING	Set **AUTO POSITION REQUEST** or **AUTO POSITION REPORT**.
DSC ALARM SETUP	Mutes specific DSC alarm types. ***NOTE: Distress calls cannot be muted.***

SET SCAN CH *Menu*

Use this menu to select channels to be included in a memory scan.

NOTE: Select Reset to change all scan channels to OFF.

ABOUT *Menu*

This menu displays the radio's MMSI number and the current SW and HW versions.

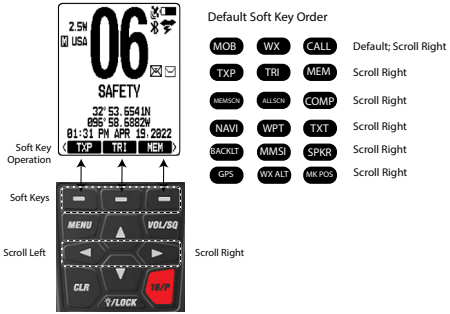
RESET (To Factory Defaults) *Menu*

Using this menu resets the unit to factory defaults, except for the MMSI number and the SW/HW version. Select **YES** to confirm the reset and restart the radio. Otherwise, select **NO** to cancel.

USING SOFT KEYS

Menu operations can set up the radio's configuration and databases. Soft keys use that information to perform quickly accessed procedures. For example, you can add ships to call (name and MMSI numbers) through ***MENU*/DSC SETUP/INDIVIDUAL DIRECTORY**. Then select **CALL/INDIVIDUAL CALL** through the soft keys and the ship you added through the menus displays.

Assign Soft Keys

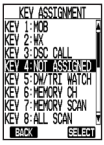


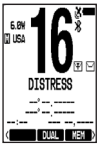
This graphic shows the default soft key assignment and then changing the default soft key 4 to "Not Assigned" (blank). You can change soft key assignment to group your more frequently used functions together.

1. Go to ***MENU***/**GENERAL SETUP**/**KEY ASSIGNMENT**. The **KEY ASSIGNMENT** screen displays the key number and default key assignment.

2. Scroll to the key whose function you want to reassign and press **SELECT**. The **SELECT KEY X** screen displays options for that key.

3. Scroll to the option you want for that key then press **SELECT**. The **KEY ASSIGNMENT** screen displays again with the key's new assignment displayed.





4. Repeat Steps 2 and 3 to assign other soft keys. Press **BACK** when finished with key assignments.

Soft Key Descriptions

Soft Key	Description
MOB	Man Overboard. The GPS automatically marks your current location as MOB and displays the latitude, longitude, time, BRG (Bearing to Destination), and DST (Distance to Destination), saved in the Waypoint directory as MOBXXX. The saved position can be used as a waypoint.
WX	Select the ***WX*** soft key to display the last WX channel accessed; while scrolling through weather channels, the ***WX*** soft key changes to ***CH***. The screen displays the Weather channel/ frequency and time. Press ▲ and ▼ to scroll through weather channels. Select ***CH*** to return to the last marine channel.

Soft Key	Description
CALL	The ***CALL*** soft key opens a **CALL** menu. You can use this menu as a “shortcut” to make different kinds of calls, access DSC logs, and set Auto Polling. ***NOTE: Some call types use the information previously set up in the menus to configure the call parameters. For example, if you select* INDIVIDUAL CALL *through the CALL soft key, a list of ships that were set up through MENU/*DSC SETUP/INDIVIDUAL DIRECTORY *displays.*** You can also manually enter the other party's location.
TXP	Transmit Power. This soft key changes the transmit power from 6.0W to 2.5W to 1.0 Watts. The transmit power level displays on the LCD screen. ***NOTE: If you try to change transmission power output but the channel is limited to 1.0W or less by regulation, the radio sounds an error tone and stays at 1.0W.***
TRI	Triple/Dual Watch. This soft key activates or deactivates Dual or Triple watch mode that was assigned through the menus. See page E-30 to assign the watch mode through the menu and to activate the mode through the soft keys. Dual Watch monitors the current channel and CH16. Triple Watch monitors the current channel, CH16, and the Priority channel. ***NOTE: The soft key only turns the currently set mode on or off; it does not switch between TRI and DUAL modes.***
MEM	Memory. Press this soft key to save the current channel into memory. The ***M*** icon displays. Press it again to remove the current channel from memory; the ***M*** icon does not display.
MEMSCN	Memory Scan. Select the ***MEMSCN*** soft key to start or stop scanning channels saved into memory. **MEMSCN** displays on the LCD.
ALLSCN	All Scan. Select the ***ALLSCN*** soft key to start or stop scanning all channels. **A-SCAN** displays on the LCD.

Soft Key	Description
COMP	The COMPASS (***COMP***) soft key activates the compass screen. **C-UP** (Course Up) or **N-UP** (North Up) displays on the LCD. Select **C-UP** or **N-UP** in ***MENU***/**GPS**/**DIRECTION**.
NAVI	Select this soft key to select a previously stored route or waypoint as your destination.
WPT	Waypoints are location coordinates you've saved to the Waypoint Directory from ***MENU***/**WAYPOINT SETUP**. Select the ***WPT*** soft key to select waypoints from the Waypoint Directory to navigate to. ***NOTE: You can save up to 250 directories. If that limit is exceeded,*** **MEMORY FULL** ***displays.***
TXT	TEXT. You can send and receive text messages, review text messages, and turn Bluetooth on and off through this soft key. ***NOTE: You can send texts from your radio or from your mobile device using the Uniden Marine II app, available for Android and iOS.***
BACKLT	Backlight. Press the ***BACKLT*** soft key to change the backlight color (white or amber)
MMSI	Press this soft key to display the radio's MMSI number.
SPKR	If you drop the radio in water, select the ***SPKR*** soft key to sound a loud tone. The vibrations from this tone help remove water from the speaker.
GPS	The **GPS SAT SIGNAL** screen displays satellites' locations, numbers, and signal strengths. ***NOTE: Satellites with valid signal data display as black bars and black dots. Satellites with invalid signal data display as white bars and white dots.***
WX ALT	Weather Alert. Press to turn Weather Alert on and off. The WX Alert icon ( ) displays when Weather Alert is turned on.
MK POS	Mark Position. The ***MK POS*** soft key saves your current location in the Waypoint Directory as **Mark xxx** unless you change the position name.

SETTING UP THE RADIO

Procedures in this section help you establish your radio's performance basics. Once these are set up, you will probably not need to change them again.

SET BACKLIGHT

1. From the **GENERAL SETUP** menu, select **BACKLIGHT** and then **BACKLIGHT LEVEL.** Press ▲ or ▼ to adjust the brightness (Off, 1 - 8) and press ***SELECT***. The **BACKLIGHT** menu displays.
2. Select **BACKLIGHT COLOR** and press ▲ or ▼ to select between White or Amber; press ***SELECT***. The **BACKLIGHT** menu displays.
3. Select **BACKLIGHT TIMEOUT** and press ▲ or ▼ to select the length of time that the backlight stays on. Timeout durations are 5 sec, 10 sec, 30 sec, 1 min, 5 min, and Always On. Press ***SELECT***. The **BACKLIGHT** menu displays.

SET CONTRAST/REVERSE (RVS)

1. From the **GENERAL SETUP** menu, select **CONTRAST/RVS**. Press ▲ or ▼ to select a contrast level (1 - 15, Default = 6)**.**
2. Select the **RVS** soft key to reverse the background and foreground contrast if desired.
3. After selecting the contrast level and reverse status, press ***SELECT***. The **GENERAL SETUP** menu displays again.

SET KEY BEEP

1. From the **GENERAL SETUP** menu, select **KEY BEEP.**
2. Press ▲ or ▼ to select a contrast level (1 - 7, Off) and press ***SELECT.***
3. The **GENERAL SETUP** menu displays again.

SET SOS STROBE

1. From the **GENERAL SETUP** menu, select **SOS STROBE.**
2. Select **WATER ACTIVATED** to turn that feature on or off.
3. Select **STROBE TIMEOUT** to select the length of time the strobe like is activated before turning off (10, 20, 30 seconds or 1 minute)**.**
4. The **GENERAL SETUP** menu displays again.

SET INACTIVITY TIMER

Set how long the radio remains inactive before it times out and returns to the main screen. Timeout durations are: 1, 2, 3, 5, 8, or 10 min.

1. From the **GENERAL SETUP** menu, select **INACTIVITY TIMER.**
2. Press ▲ or ▼ to select how long the radio remains inactive before it times out and returns to the main screen. Options are 1, 2, 3, 5, 8, and 10 minutes. Press ***SELECT***.
3. The **GENERAL SETUP** menu displays again.

SET KEY ASSIGNMENT

Reassign soft key functions to different soft keys. (See page E-18 for details.)

SET CHANNEL MODE

1. From the **RADIO SETUP** menu, select **CHANNEL MODE.**
2. Press ▲ or ▼ to select between USA, CANADA, or INTERNATIONAL. Press ***SELECT.***
3. The **RADIO SETUP** menu displays again.

SET WEATHER RADIO

1. From the **RADIO SETUP** menu, select **WEATHER RADIO.**
2. Press ▲ or ▼ to select a **WX ALERT** (turn alerts on and off; see page E-28) or **S.A.M.E. FIPS CODE (ADD, EDIT,** or **DELETE** FIPS codes; see page E-29). Press ***SELECT.***
3. The **RADIO SETUP** menu displays again.

SET DUAL/TRIPLE WATCH

1. From the **RADIO SETUP** menu, select **DUAL/TRI WATCH.**
2. Press ▲ or ▼ to select either **TRIPLE** or **TRIPLE**. Press ***SELECT.***
3. The **RADIO SETUP** menu displays again.

NOTE: Setting Dual or Triple watch through the menus turns Triple and Dual Watch on. The function still needs to be activated. Activate through the DUAL/TRI soft key (see page E-30).

SET PRIORITY CHANNEL

1. From the **RADIO SETUP** menu, select **PRIORITY CHANNEL**. A channel list displays.
2. Press ▲ or ▼ to select a channel; press ***SELECT***. That channel is now the priority channel and the **RADIO SETUP** menu displays again.
1. Press ***MENU***, then select **RADIO SETUP/CHANNEL NAME**. The **CHANNEL NAME** screen displays
2. Use the ▲ and ▼ keys to select a channel. Then press ***SELECT***.
3. The **CHANNEL NAME** text edit screen displays. Enter the new channel name using the ▲, ▼, ►, and ◄ keys. Press ***SELECT*** after each letter entry and then ***SAVE*** when finished.

SET SCAN PAUSE TIMER

1. From the **RADIO SETUP** menu, select **SCAN PAUSE TIMER.**
2. Use the ▲ and ▼ keys to set how long scanning will pause after a channel is cleared. Press ***SELECT***.
3. The radio returns to the **MENU** screen.

SET CHANNEL NAME

1. From the **RADIO SETUP** menu, select **CHANNEL NAME**
2. Use the ▲ and ▼ keys to select a channel; press ***RENAME***.
3. The **CHANNEL NAME** text edit screen displays. Enter the new channel name using the ▲, ▼, ►, and ◄ keys. Press ***SELECT*** after each letter entry and then ***SAVE*** when finished.

SET NOISE CANCEL

1. From the **RADIO SETUP** menu, select **NOISE CANCEL**. The **NOISE CANCEL** screen displays.
2. Use the ▲ and ▼ keys to select **RX** or **TX** and then press **SELECT** to turn it on or off.
3. Press ***BACK*** to return to the **RADIO SETUP** menu.

SET RECEIVE AUDIO PITCH

1. From the **RADIO SETUP** menu, select **RECEIVE AUDIO PITCH**. The **RECEIVE AUDIO PITCH** screen displays.
2. Use the ▲ and ▼ keys to select between normal, mid-range, high boost, and low boost
3. Press ***BACK*** to return to the **RADIO SETUP** menu.

SET LOCAL TIME

1. From the **GPS** menu, select **TIME DISPLAY**. The **TIME DISPLAY** screen displays **LOCAL TIME** and **UTC (24H)** (Coordinated Universal Time).
2. Select **LOCAL TIME** to set the local time display format, adjust ± 1 hour, and set Daylight Saving Time.
3. Select **UTC (24H)** to display time in a 24-hour format.
4. Press ***BACK*** to return to the **RADIO SETUP** menu.

TURN ON BLUETOOTH

1. From the **BLUETOOTH SETUP** menu, select **BT RADIO**. The **BT Radio** screen displays.
2. Select **ON** to turn on Bluetooth capabilities. The **BLUETOOTH SETUP** screen displays again.

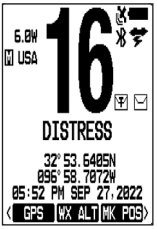
OPERATING THE RADIO

In order to customize your radio to your specific needs, it is important to understand its basic operation. Your radio has three main operation modes:

- Normal. Monitors a single channel and lets you talk on that channel to another radio.
- Scan. Sequentially checks for transmissions on all channels or channels saved in memory.
- Weather. Monitors the selected NOAA weather channel. Hear the current or forecasted weather.

To monitor a channel, press either of the ***CH*** keys to select the desired channel (press and hold to scroll quickly). The radio will remain on that channel, and you will be able to hear any transmission on that channel.

To save the current channel into memory, press the ***MEM*** soft key; MEM appears on screen for saved channels. (To remove a saved channel from memory, press the ***MEM*** soft key again.)



NOTE: Saving specific channels to memory enables your radio to scan those channels, expanding your ability to listen for transmissions in your area. If you discover that a saved channel has a different common name in your local area, you can change the channel name using the *RADIO SETUP* ***menu.***

SETTING UP YOUR MMSI NUMBER

In order to use DSC features, you must be assigned an individual User MMSI number and program that number into your radio. User MMSI numbers are unique and cannot be entered more than once

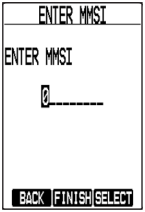
You can get more information on MMSI numbers at these resources:

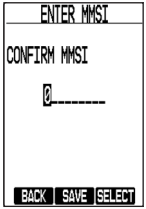
- The dealer where you purchased the radio.
- Recreational boaters can obtain an individual MMSI number from the Boat Owner's Association of the U.S. (http://www.boatus.com/mmsi/, or call 800-563-1536) or Sea Tow Services International (http://seatow.com/boating_safety/mmsi.asp)
- Commercial boaters 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.

When you power up your radio for the first time, it displays **MMSI NOT ENTERED** followed by an ATTENTION! screen with the option to enter the MMSI at that point.

To Enter Your MMSI Number

1. Press and hold the ***POWER*** key until the unit turns on. An **ATTENTION** message displays.
2. Press the **PROG** soft key. The **ENTER MMSI** screen displays.
3. Use the ▲, ▼, ◄, and ► keys to enter each digit of your MMSI number and press **SELECT** after each number.
4. Press the **FINISH** soft key to save the MMSI number you just entered. A confirmation screen displays.
5. Re-enter the MMSI number. Press **SELECT** after each number and then press **SAVE**. A message screen displays, indicating that the MMSI number cannot be changed after accepting the entry.
6. Select **FINISH**. The Idle screen displays.





If you choose to not enter your specific MMSI number at initial start up, you can still use many of your radio's features; however, you cannot use DSC features. Go to ***MENU/DSC SETUP/RADIO MMSI NUMBER*** to enter the MMSI number after initial turn-up.

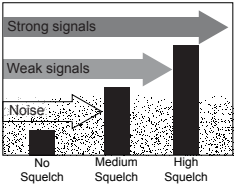
SETTING THE SQUELCH LEVEL

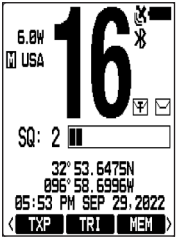
The MHS338BT recognizes signals as transmissions if they exceed a signal strength threshold. Adjusting the squelch sets this threshold level. Increasing squelch requires a

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.

1. While listening to a channel, press ***VOL/SQ*** twice to enter Squelch Setting mode.
2. Press ▲ to increase the squelch or ▼ to decrease it (squelch levels = 0 - 15).
3. Press the ***CLR*** key or press ***VOL/SQ*** again to set that level and return to the Idle screen.





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

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

1. Press ***MENU***, then select **RADIO SETUP/CHANNEL MODE**. The **CHANNEL MODE** screen displays.
2. Select **USA**, **CANADA**, or **INTERNATIONAL** and press the **SELECT** soft key. The **RADIO SETUP** screen displays again.

SETTING KEY LOCK

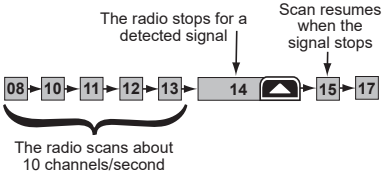
You can lock the keypad through pressing and holding the ***/LOCK*** key. **KEY LOCK** displays if you press a key while keylock is on.

Unlock it by pressing and holding the ***/LOCK*** key again. **UNLOCK** displays.

NOTE: Key Lock does not affect the PTT, MON, or DISTRESS keys. If DISTRESS is pressed, **KEY LOCK** ***turns off and*** **UNLOCK** ***displays.***

SCANNING RADIO CHANNELS

Scan mode sequentially checks channels that you have saved in memory. You must have at least two channels saved in memory to start a scan.



To scan channels saved to memory, press the ***MEMSCAN*** soft key.

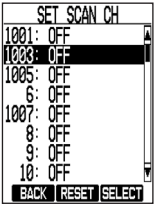
To scan all channels, press the ***ALLSCAN*** soft key.

The radio scans channels according to your radio settings, including Priority and Weather Alert watch, if set. If the radio detects a transmission, it stays on that channel; when the signal stops, the radio resumes scanning. When the radio receives a transmission, it pauses the scan and stays on the transmitting channel. Press ▲ or ▼to leave that channel and resume scanning.

To end the scan, press the SCAN soft key. The radio remains on the last scanned channel

To Save Channels for Memory Scan

1. Press the ***MENU*** key on your radio and then use the ▲ and ▼ keys to access the **SET SCAN CH** menu. The **SET SCAN CH** screen displays.
2. From here, use the ▲ and ▼ keys to select a channel. Press the ***SELECT*** soft key to toggle the channel on or off for scanning.
3. (Optional) Press ***RESET*** to turn all channels off.



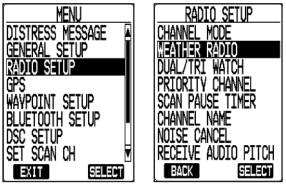
MONITORING WEATHER CHANNELS

To monitor saved weather channels, press the WX soft key. The radio tunes to one of the 10 NOAA weather channels. If a weather alert signal is received in Weather Alert mode, the radio sounds an alert tone. The NOAA weather channels cooperate with the FCC to alert you to other hazards besides weather.

- You cannot transmit while in Weather mode.
- To turn off the radio's alert tone, press any key.

To Set Weather (WX) Alerts

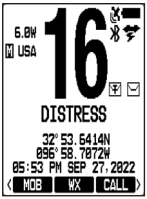
1. Press ***MENU***, then select **RADIO SETUP/WEATHER RADIO.**



2. Select **WX ALERT**. The **WX ALERT** screen displays with the options to turn this alert on or off.

3. Select **ON** soft key; the WX Alert screen displays again.

NOTE: The WX Alert icon ( ) displays when WX Alert is on.



4. Turn WX Alert off through these same menus.

NOTE: You can also set ON /OFF through the WX ALT soft key.

To Program FIPS Codes

1. Press ***MENU***, select **RADIO SETUP,** and press ***SELECT***. The **RADIO SETUP** screen displays.
2. Select **WEATHER RADIO** and press ***SELECT***. The **WEATHER RADIO** screen displays.
3. Select **S.A.M.E. FIPS CODE** and press ***SELECT***. The **S.A.M.E. FIPS CODE** screen displays.
4. Select **ADD** and press ***SELECT***. The **ADD FIPS CODE** screen displays.

5. Use the radio controls to enter the FIPS code. Press ***SAVE*** when complete.

NOTE: To modify an existing FIPS code, select EDIT in Step 4 and select the name from the list. To delete a FIPS code, select DELETE, select the name from the list, and then confirm deletion.

NOTE: FIPS codes identify counties in the United States. They allow you to receive only the Specific Area Message Encoding (S.A.M.E.) alerts occurring in a specific area. You can enter a maximum of 30 FIPS codes. For USA FIPS codes by state, see https://www.nws.noaa.gov. For Canadian FIPS codes, see https://www.ec.ga.ca.

6. Use the radio controls to enter the FIPS code. Press ***SAVE*** when complete.

PRIORITY AND WEATHER ALERT WATCH

In addition to the three operation modes, your radio provides two watch functions that set the radio to quickly and regularly check for activity on specific channels.

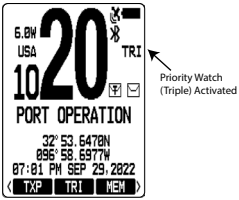
- Priority Watch - Checks 1 - 2 designated Priority channels for activity every 1.5 seconds.
- Weather Alert Watch - Checks the weather channel for alerts every 6 seconds.

Priority Watch

Your radio comes with a preprogrammed Priority channel. Your radio will function normally and will also check the Priority channel(s) every 1.5 seconds. If the radio detects a transmission, it will stay on that channel; when the signal stops, the radio resumes scanning.

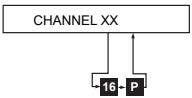
SETUP

1. Go to ***MENU*/RADIO SETUP/DUAL/TRI WATCH**. Select **TRIPLE** or **DUAL**. That selection is now assigned and displays on the soft key, but not on the screen.
2. Next, select ***TRI*** (or ***DUAL***) soft key. That designation should now display on the screen and is now activated (on).



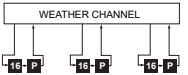
NOTE: Private ships MUST monitor channel 16 whenever they are underway. Water-going ships should have a Priority Watch on at all times.

During Normal mode, monitors one channel, checking channel 16 and the Priority channel every 1.5 seconds.



During Scan mode, scans multiple channels, checking channel 16 and the Priority channel every 1.5 seconds.

During Weather mode, monitors a weather channel, checking channel 16 and the Priority channel every 1.5 seconds.



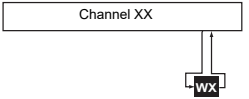
Weather Alert Watch

When Weather Alert watch is active, your radio will function normally and check the most recent weather channel every 6 seconds. If the radio detects a transmission, it will stay on that channel; when the signal stops, the radio resumes scanning.

To activate Weather Alert Watch, press ***MENU***, and then use ▲ or ▼ to access the **RADIO SETUP/WEATHER RADIO** menu.

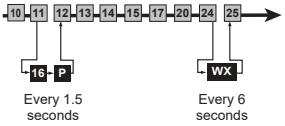
NOTE: You can also activate WX Alert through the WX ALT soft key.

During Normal mode, checks a weather channel every 6 seconds.



During Scan mode, checks a weather channel every 6 seconds.

During Weather mode, The WX Alert function operates as a type of "sleep mode." The radio stays on the weather channel and mutes the speaker; if the radio detects an alert, it sounds an alert tone, switches to that weather channel, and turns the speaker back on. This function is useful if you want to anchor for the night but want to keep informed of hazards.



To activate both WX Alert Watch and Priority Watch at the same time, activate WX Alert Watch using **RADIO SETUP/ WEATHER RADIO** menu and then press ***TRI*** (or ***DUAL***) soft key while scanning.

DIGITAL SELECTIVE CALLING FEATURES (DSC)

WHAT IS DSC?

Digital Selective Calling (DSC) is a standard that allows you to call other ships using their MMSI number, just like you would call a phone number. To call another station, enter that station's MMSI number and choose the voice channel you want to talk on. The radio uses a dedicated a VHF channel—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 each other.

MAKING DSC CALLS

There are essentially four different types of DSC voice calls:

Call type	What it does	When to use it
Individual (See page E-37.)	Calls a single station using the User MMSI.	When you want to talk to another station.
Group (See page E-38.)	Calls all the ships 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 (See page E-38.)	Calls all ships within range of your radio.	Safety warnings (e.g., debris in the water) or any urgent situation.

Call type	What it does	When to use it
Distress (See page E-48.)	Alerts all ships that you need assistance and sends them your current position.	In an emergency only.

MANAGING DSC SETTINGS

Even though you can change your DSC settings as needed, you will want to establish initial settings.

Press the ***MENU*** key, select **DSC SETUP**, and press **SELECT**. The **DSC SETUP** menu displays.

From here you can customize settings for your radio:

- **RADIO MMSI NUMBER** - Displays your MMSI number.
- **CURRENT POSITION** - Displays your current position. You can set your current position manually but manual information will be overwritten by GPS data if available.
- **INDIVIDUAL DIRECTORY** - Manages individual MMSI numbers for making calls.
- **GROUP DIRECTORY** - Manages MMSI groups for making calls.
- **INDIVIDUAL REPLY** - Select **AUTO** or **MANUAL** for replies to calls. This screen displays:
  - Individual Call ACK. If you want the radio to automatically reply to individual calls, you can enable Individual Call to AUTO.
    If set to AUTO, the response that is selected in INDIVIDUAL ACK (ABLE or UNABLE) will also be sent.
    If set to MANUAL, you can manually choose whether or not to reply.
  - Position Request ACK. If you want the radio to automatically transmit your current position whenever it receives position request, you can enable POSITION REQUEST ACK to AUTO.
    Most boaters activate automatic position reply for safety reasons because they subscribe to a marine towing service.
    Sometimes, for example (in competitive situations) you may not want other ships to get your position without your manual confirmation.
  - Test Call ACK.
- **INDIVIDUAL ACK** - Select a response to an individual call.
  ABLE: The radio sends an acknowledgement and automatically switches to the designated response channel.
  UNABLE: The radio advises other stations that you are unable to respond to the call.

This information is sent automatically if INDIVIDUAL CALL is set to AUTO.

- **INDI. CALL RING** - Sets how long the alarm will sound for individual calls (5, 10, or 15 sec, or 1 or 2 min).
- **AUTO MOB SET** - When AUTO MOB is set to ON, the radio will automatically send out a distress call (MAN OVERBOARD) after the countdown when the radio is submerged in water.

CAUTION: If you turn this setting ON, a Distress Call will be sent even if you drop the radio in a bucket of water; handle the radio with care.

- **WAIT FOR POS FIX** - Sets how long the radio waits for location information to become available when the ***DISTRESS*** button is pressed to sent a Distress call without location information. (15, 30, or 45 sec, or 1, 2, or 5 min).
- **AUTO POLLING TIME** - Set the auto polling time interval. (30 sec or 1, 2, 3, or 5 min)
- **AUTO POS POLLING** - Sets **POSITION REQUEST** or **POSITION REPORT** as the message to be sent by Auto Polling.
  This setting is used when activating AUTO POLLING from the ***CALL*** soft key.
  - AUTO POS REQUEST - Requests position from other individuals.
  - AUTO POS REPORT - Reports your position to other individuals.
- **DSC ALARM SETUP** - Turns alarms on and off for specific call types.

NOTE: You cannot turn off alarms for Distress call types.

SETTING UP DSC INDIVIDUAL DIRECTORY

Much like traditional contacts in a phone, DSC directories let you store up to 100 individual MMSI numbers of other ships and up to 50 group MMSI numbers. From the directories, you can add, edit, or delete MMSI numbers.

Managing Individual Directories

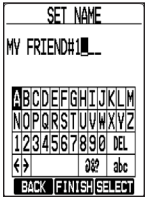
1. Press ***MENU***, then select the **DSC SETUP** menu. Press ***SELECT***. The **DSC SETUP** menu displays.
2. Select **INDIVIDUAL DIR.** and press ***SELECT***. The **INDIVIDUAL DIR.** screen displays.

3. Select **ADD** and press ***SELECT***. **NAME** and **MMSI** options display.

NOTE: To edit an existing individual, select EDIT in this step and select the name from the list that appears. To delete an individual, select DELETE, select the individual, and then confirm.

4. Select **NAME** and press ***SELECT***. A pop-up keyboard to enter a name displays.

5. Use the keyboard to enter a name for the individual. Press ***SELECT*** for each letter and press ***FINISH*** when complete. The **ADD INDIVIDUAL DIR.** screen displays again.



6. Select **MMSI** and press ***SELECT***. The **SET MMSI** screen displays.

7. Use the keyboard to enter the MMSI for the individual. Press ***SELECT*** for each number and press ***FINISH*** when complete. The **INDIVIDUAL DIR.** screen displays again.

8. Press ***SAVE*** to save the new Individual name and MMSI number.

Managing Group Directories

Unlike the user MMSI number, you can create a group MMSI number yourself, and you can also change the group MMSI number as often as you want. You don't have to get a group

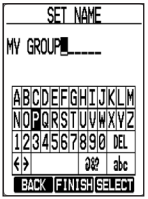
MMSI number from a specific organization. For example, if you are part of a boating club, your club's leadership may have a list of approved group MMSI numbers to use.

1. Press ***MENU***, then select the **DSC SETUP** menu. Press ***SELECT***. The **DSC SETUP** menu displays.

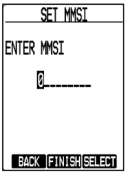
2. Select **GROUP DIRECTORY** and press ***SELECT***. The **GROUP DIRECTORY** screen displays.
3. Select **ADD** and press ***SELECT***. **NAME** and **MMSI** options display.

NOTE: To edit an existing group, select EDIT in this step and select the group from the list that appears. To delete a group, select DELETE, select the individual, and then confirm.

4. Select **NAME** and press ***SELECT***. A pop-up keyboard to enter a name displays.
5. Use the radio controls to enter a name for the group. Press ***SELECT*** for each letter and press ***FINISH*** when complete. The **GROUP DIRECTORY** screen displays again.



6. Select **MMSI** and press ***SELECT***. The **SET MMSI** screen displays.



7. Use the radio controls to enter the group MMSI. Press ***SELECT*** for each number and press ***FINISH*** when complete.

NOTE: The Group MMSI number must have 9 digits and the first digit is fixed at 0.

8. The **INDIVIDUAL DIR.** screen displays again with the newly added group name and MMSI displayed.

9. Press ***SAVE*** to save the new Group name and MMSI number.

Calling an Individual Station

1. Press the ***CALL*** soft key; the **CALL** menu appears.

2. Use the ▲ or ▼ keys to scroll to the **INDIVIDUAL CALL** option. Press ***SELECT***. The **INDIVIDUAL CALL** menu displays a list of your saved stations.

3. Select the station you want to call. The radio displays the ship's MMSI number and the transmission channel.

4. Use the ▲ and ▼ keys to select a different transmission channel if desired.

NOTE: You can switch between inter ship channels and all voice channels by pressing the MANUAL soft key.

5. Press **SEND**. The radio transmits the call request on the selected channel. When the other station accepts the call, both radios switch to the selected response channel for voice transmissions.

6. If the other station does not respond, press ***RESEND*** or ***EXIT***

Calling a Group

1. Press ***the CALL*** soft key; the **CALL** menu appears.
2. Use the ▲ or ▼ keys to scroll to the **GROUP CALL** option. Press ***SELECT***. The **GROUP CALL** menu displays a list of your saved groups.

3. Select the station you want to call. The radio displays the ship's MMSI number and the transmission channel.

4. Use the ▲ and ▼ keys to select a different transmission channel if desired.

NOTE: You can switch between inter ship channels and all voice channels by pressing the MANUAL soft key.

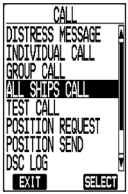
5. Press **SEND**. The radio transmits the call request on the selected channel. When the other station accepts the call, both radios switch to the selected response channel for voice transmissions.
6. If the other station does not respond, press ***RESEND*** or ***EXIT***

Calling All Ships

An All Ships call contacts all DSC radios within range of your ship.

CAUTION! 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 ship has a serious problem but is not yet in distress.

1. Press ***the CALL*** soft key; the **CALL** menu appears.
2. Use the ▲ or ▼ keys to scroll to the **ALL SHIPS CALL** option. Press ***SELECT***. The **ALL SHIPS CALL** screen displays, showing two options: **SAFETY** and **URGENCY**.



3. Use the ▲ or ▼ keys to select either option. On the next screen, enter the channel to transmit on. Press ***SEND***.

4. The next screen displays the type (category) of All Ships Call sent, the channel the call was sent on, and elapsed time.

Responding to Calls (Individual/Group/All Ships)

If your radio receives a DSC call from another station, it sounds an incoming call alarm and displays the MMSI number of the calling station or group and the transmitting channel for the call.

NOTE: This radio does not have the ability to acknowledge a distress call. Only the Coast Guard or an authorized Search and Rescue agency can acknowledge a DSC distress call.

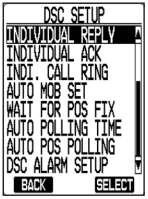
1. Press the ***STOP ALARM*** soft key to stop the alarm. The radio returns to the main screen with the channel selected.

2. To speak to the other ship, press and hold the ***PUSH TO TALK*** key on the microphone while speaking.
   When you are finished speaking, release the ***PUSH TO TALK*** key and listen for a response.

Automatically Responding to Calls

When another station sends you a range of calls, including test calls and position requests, you can select options to answer those calls manually or have the radio answer automatically.

1. Press ***MENU***. Select the **DSC SETUP** menu and press ***SELECT***. The ***DSC SETUP*** menu displays.



2. For each type of call selected (Individual Call, Position Request, or Test Call), select the call type and press ***SELECT***. The call type options screen displays.
3. Use the ▲ or ▼ keys to scroll to the **AUTO** option and press ***SELECT***. The scanner returns to the **INDIVIDUAL REPLY** screen.

Making a Test Call

You can use the test call feature to make sure your radio is working and configured correctly. Limit test calls to once a week to avoid overloading coastal receiving stations.

NOTE: Many coastal stations have specific frequencies and MMSI numbers 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://navcen.uscg.gov.

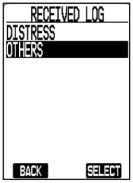
1. Press the ***CALL*** soft key. The **CALL** menu displays.
2. Use the ▲ or ▼ keys to scroll to **TEST CALL** and press ***SELECT***.

3. The TEST CALL screen displays the stations in your directory. Use the ▲ or ▼ keys to select a ship. Information for that selected station displays. Press ***SEND***.
4. A **WAITING FOR ACK** message displays on the **TEST CALL** screen. If you do not receive an acknowledgement, resend the transmission or select ***BACK*** to return to the IDLE screen.

DSC Call Logs

Your radio keeps track of the last 20 transmitted Distress calls and the last 40 received Distress calls in the DSC log. If you have unread received DSC calls, the radio displays a message icon. This is useful if you have been away from the radio and want to see who has tried to contact you.

1. Press the ***CALL*** soft key. The **CALL** menu displays.
2. Use the ▲ or ▼ keys to select the **DSC LOG**. The **DSC LOG** screen displays showing 2 call logs: **TRANSMITTED LOG** and **RECEIVED LOG**.
3. Select either of the logs. That log displays with **DISTRESS** and **OTHERS** options.
4. Select an option to see transmitted or received calls for that option.



NOTE: The maximum number of logs that can be saved in the radio are as follows:

- ***Transmitted Distress Calls: 20 logs***
- ***Transmitted Other DSC Calls: 100 logs***
- ***Received Distress Calls: 40 logs***
- ***Received Other DSC Calls: 100 logs***

5. Use the ▲ or ▼ keys to select a call and review the call details. Information varies, depending on the call type.

DSC Call Type	Receive Log Information
Distress	MMSI (or name), position, time, nature code
Distress Call Acknowledge	MMSI (or name), distress MMSI, position, time, nature code
All Ships Call	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 Call Acknowledge	MMSI (or name), Completed/Unattended, category code, communication channel number
Test Call	MMSI (or name), category code
Test Call Acknowledge	MMSI (or name), category code
Pos Request 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. To make a call from the call log, press the ***CALL*** soft key on the log screen.
7. To delete entries in a specific log, press **DELETE LOG**.
8. To close the log, press **EXIT**.

POSITION REQUESTS

Requesting a Position

Any time you need to know another ship's position – to find your boating partners, to respond to a request for assistance, etc. – you can send a position to their radio.

1. Press the ***CALL*** soft key. The **CALL** menu displays.
2. Use the ▲ or ▼ keys to select **POSITION REQUEST**. The **POSITION REQUEST** screen displays, showing the list of ships entered in to the Individual directory.

3. Use the ▲ or ▼ keys to select a ship (if you want to contact a station that is not in your directory, press MANUAL and enter the MMSI number you want to call). Press ***SELECT***. The **POSITION REQUEST** screen displays for confirmation.

4. Press ***SEND***. The radio sends a position request to that ship and waits for acknowledgement.
5. If you do not receive an acknowledgement, press ***EXIT*** and return to the Idle screen.

Sending Your Position

If you are requesting assistance using an All Ships Call or have received a Position Request, you can send your current position so other ships know where you are.

1. Press the ***CALL*** soft key. The **CALL** menu displays.

2. Use the ▲ or ▼ keys to select **POSITION SEND**. The **POSITION SEND** screen displays, showing the list of ships entered in to the Individual directory.

3. Use the ▲ or ▼ keys to select a ship (if you want to contact a station that is not in your directory, press ***MANUAL*** and enter the MMSI number you want to call).

4. Press ***SELECT***. The radio displays the name and MMSI number of the station you are about to contact along with your current position information.

5. Press ***SEND***. The radio transmits your current position information to the other station.

6. If you do not receive an acknowledgement, press ***EXIT*** and return to the Idle screen.

TEXT MESSAGES

To Send a Text Message

To send a text message, you must save the other party's information (MMSI) in the Individual directory. (See page E-34.)

1. Press the ***TXT*** soft key and select **NEW MESSAGE**. A list of your DSC contacts displays.

2. Use the ▲ or ▼ keys to select an individual contact to send a message. A pop-up keyboard screen displays.

3. Enter your text message, pressing ***SELECT*** after each character.

4. When complete, press the ***FINISH*** soft key. The **TXT MESSAGE** (transmitting to) screen displays the name and MMSI number of the vessel you are sending the message to and the channel the message is being sent on.

5. Press the ***SEND*** soft key.

6. To review sent and received messages, press the ***TEXT*** soft key and select **TX** (sent) or **RX** (received) **MESSAGE**.

AUTO POLLING

Auto Polling lets you request an automatic position update from (or send your position automatically to) up to 7 individuals.

1. Press the ***CALL*** soft key. The **CALL** menu displays.

2. Use the ▲ or ▼ keys to select **AUTO POLLING**. The **AUTO POLLING** screen displays.

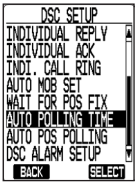
3. Select **SELECTED ID**. and press ***SELECT***. The **SELECT ID** screen displays.

4. Use the ▲ or ▼ keys to select a row and press ***SELECT***. The **SELECT ID** screen displays your saved Individual Directory List.

5. Use the ▲ or ▼ keys to select a ship and press ***SELECT***. The **SELECT ID** screen displays again with that contact displayed.

6. Repeat steps 4 and 5 above for up to 7 contacts.

7. Press ***MENU*** to return to the **MENU screen**. Select **DSC SETUP**, then **AUTO POLLING TIME**. The Auto Polling Time selections display.



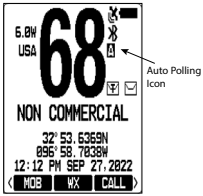
8. Use the ▲ or ▼ keys to select a polling duration and press ***SELECT***. The **DSC SETUP** menu displays again. Press ***BACK*** to return to the **MENU**.

9. Press the ***CALL*** soft key. The **CALL** menu displays. Select the **AUTO POLLING** option. The **AUTO POLLING** screen displays.

10. Use the ▲ or ▼ keys to select **ACTIVATION** and press ***SELECT***. The **ACTIVATION** screen displays.

11. Use the ▲ or ▼ keys to select ***START*** to begin or ***STOP*** to end auto polling. The **ACTIVATION** screen displays again.

NOTE: An "A" icon displays on the Idle screen when Auto Polling starts.



DSC SELF TEST

Perform a DSC self test. If it fails, contact Uniden Customer Support.

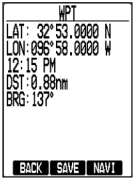
RECEIVING A DISTRESS CALL

If you receive a distress call, your radio will sound a Distress Call tone and display the name (or MMSI), distress message, latitude, longitude, time, and elapsed time for the vessel that sent the Distress call. Press any key to stop the Distress Call tone.

If there is data that matches an MMSI in your Individual directory, that name displays; otherwise, the MMSI displays.

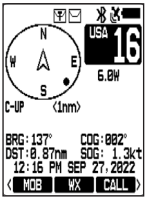
1. Press the ***STOP ALARM*** soft key.

2. The soft keys change. Press the ***ACCEPT*** soft key to plot a waypoint to the location data in the distress call. The **WPT** screen displays.



3. Press the ***SAVE*** key to save the coordinates as a waypoint.

4. Press the ***NAVI*** soft key to start navigating to the vessel that sent the distress call. The **COMPASS** screen displays.



MAKING AN AUTOMATIC DISTRESS CALL

After you have programmed your MMSI number, your radio can transmit an automated distress call on channel 16 at 6W with your current location and the nature of the distress. The Distress Alert alarm sounds and the radio then monitors channel 16 for a response and repeats the distress call every few minutes until it receives an acknowledgement.

1. If you have time to select a distress message type, press the ***MENU*** key and use the ▲ and ▼ keys to select **DISTRESS MESSAGE**. The **DISTRESS MESSAGE** screen displays.

2. Use the ▲ and ▼ keys to select the emergency type that most closely matches the nature of your emergency. The screen returns to the Main menu.

Undesignated	Sinking	Fire Explosion	Man Overboard
Adrift	Flooding	Abandoning Ship	Capsizing
Collision	Piracy	Grounding	

3. Press and hold the ***DISTRESS*** key on the side of the radio for about 3 seconds. The Distress Alert alarm sounds and the radio acquires GPS location if needed.

4. After 10 seconds, the radio transmits the distress call, starts a countdown timer, and waits for an acknowledgement. After the timer counts down, another countdown timer begins unless you take action using the ***PAUSE***, ***CANCEL***, or ***RESEND*** soft keys.

5. After you receive an acknowledgement that the distress call was received,, use the ***MUTE*** soft key to stop the acknowledgement alarm.

NOTE: If no MMSI number has been programmed, the radio prompts you to enter your MMSI number.

MOB SOFT KEY

The Man Overboard (MOB) soft key does not require setup through the menus. Your radio immediately displays and saves the latitude, longitude, time, Bearing to Destination (BRG), and Distance to Destination (DST).

1. Select the **MOB** soft key and the screen automatically marks your current location as MOB. The soft keys change to **BACK, SAVE**, and **NAV**.
2. Select **BACK** to return to the previous mode and keep the current MOB information.
3. Select **SAVE** to save the MOB information into the Waypoint Directory.
4. Select **NAVI** to activate the **COMPASS** screen and navigate to the MOB location.

BLUETOOTH

Setting Up Bluetooth

Uniden's Marine Radio app (Uniden Marine II) lets you configure your MHS338BT and send text messages from your mobile phone (Android and iOS). Refer to the Uniden Marine II manual for app operation instructions.

NOTE: iPad iOS is not supported.

1. Press the ***MENU*** key, and then use the ▲ or ▼ keys to select **BLUETOOTH SETUP**. The **BLUETOOTH SETUP** menu displays.

2. Use the ▲ or ▼ keys to select **BT RADIO** and then activate Bluetooth.

3. (Optional) To change your radio's name, use the ▲ or ▼ keys to select **FRIENDLY NAME** and then use the keyboard screen to set or edit the name.
4. Open the Uniden Marine II app on your device and follow the on-screen instructions.
5. In the app, press ***SEARCH***. The **SEARCHING** screen displays, followed by a list of available radios.
6. Select your radio's name. If it does not display, move your device closer to the radio and try again.
7. Once paired, you will be able to review contacts and text messages (received and sent) and to send messages to your radio contacts.

GPS MENU

GPS OPERATION OVERVIEW

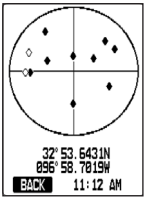
Your GPS system provides more than just your specific location. The ***MOB*** (Man Overboard) soft key (page E-49) lets you immediately save your current position so rescuers can converge on that exact man overboard location. The WAYPOINT menus let you create a directory of places and their coordinates so you can easily return there. Using the GPS Setup menus, you can determine power-saving options, measurement increments, and time settings.

NOTE: Since it is preset at the factory, it will take a while to acquire satellites the first time you turn on the radio.

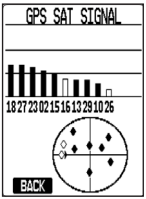
GPS MENU

The GPS menu options are:

MENU OPTION	DESCRIPTION
GPS SIGNAL COVERAGE	Displays latitude, longitude, and time of coverage check as well as a map of active satellites within range. (Active satellites display as black dots; inactive satellites display as white dots.)



SATELLITE SIGNAL	Displays a list of satellite numbers, signal strength, and a graphic display of signal strength.



GPS POWER SAVE	Select **AUTO** to let the radio determine how best to reserve power (minimize background tasks, etc.) or **OFF**.
TIME DISPLAY	Select **LOCAL TIME** to set and adjust the local time format (12 or 24 hour format), adjust the time ± an hour (If GPS not available to automatically adjust for daylight savings time), and turn daylight savings time on and off. Select **UTC** to set the current time display format to 24-hour format.

MENU OPTION	DESCRIPTION
DIRECTION	Choose **Course Up** (oriented by your course direction) or **North Up** (oriented to compass north).
LOCATION ACCURACY	Select the location display format. Location in ddd° mm.mmmm (degree/decimal minutes) or ddd° mm ss (degree/minute/seconds).
UNITS OF MEASURE	Set **SPEED** (Knots, MPH, or KM/H) or **DISTANCE** (Nautical Mile, Statute Mile, or Kilometer) measurement type.
STATIONARY POSITION	Turn stationary positioning on to update the vessel's location if SOG is 0.4 knot or less..
POS DATA OUTPUT	This menu selects the connection device to receive output position data.
NMEA0183 OUTPUT	Select the sentences to be output to the NMEA0183 (see page E-53).
NMEA0183 DATA SPEED	Set the NMEA0183 baud rate for GPS and DSC output: 4800 bps or 38400 bps.
INTERNAL GPS	Turn internal GPS module power on or off and activate D-GPS. D-GPS is a means of correcting GPS variances and should be turned off in the southern hemisphere.

NMEA FEATURES

Your radio supports NMEA0183 (version 4.10), a standard for data communication between marine instruments.

NMEA sentences contain different sets of data related to your ship. The MHS338BT supports the following sentences: RMC, GLL, GGA, GSV, GSA, and DSC/DSE.

CHARTPLOTTER CONNECTION

Connect to chartplotter via NMEA0183 output cable.

If you have difficulty getting your chartplotter to receive data from your radio, check the chartplotter's configuration. It should be set to the following parameters:

Baud rate	4800 bps
Data bits	8
Parity	None
Stop bits	1

NMEA OUTPUT

When the radio receives a DSC call (Distress, Position Reply, or Position Send), it outputs DSC/DSE sentences from the NMEA output port in the following formats:

- $CDDSC,12,3081234000,,07,00,0354013946,0657,,,S,E*6D
- $CDDSE,1,1,A,3081234000,00,60875646*13

NAVIGATION

WAYPOINTS AND ROUTES

You can search the internet for the latitude and longitude of the location you want and save it as a destination. For example, search for "Key West Naval Hospital Coordinates."

You can save up to 250 waypoints in your Waypoint Directory. You can also use the positions stored in **MK POS** and **MOB**.

To Set Up a Waypoint

1. Press the ***MENU*** key and use the ▲ and ▼ keys to select the main **WAYPOINT SETUP** menu. From this menu, you can use the ▲ and ▼ keys to define waypoints for your radio.

2. Select **WAYPOINT DIRECTORY** and press ***SELECT***. The **WAYPOINT DIRECTORY** screen displays available options..

3. Select **ADD** and press ***SELECT*** soft key. The **WAYPOINT SETUP** screen displays **NAME**, **LAT**, and **LONG**.

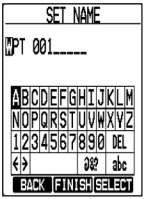
NOTE: WPT 00X is the default waypoint name.

NOTE: To modify an existing waypoint, select EDIT in Step 3 above and then select the waypoint name from the list. To delete a waypoint from your directory, select DELETE, the waypoint to be deleted, and then confirm.

4. Use the ▲ and ▼ keys to select NAME and then press the ***SELECT*** soft key. The pop-up keyboard displays.

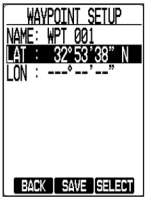
5. Use the keyboard to enter a name for the waypoint. Press ***SELECT*** after each letter and then ***FINISH*** when done. The **WAYPOINT SETUP** screen displays again with the new name. Press ***SAVE*** to keep that entry.

NOTE: The name was not changed in this example.



6. Select **LAT** and press ***SELECT***. Use the ▲ and ▼ keys to enter each number (followed by ***SELECT*** after each number entry). Press ***SAVE*** to keep that entry.

7. When done, press ***FINISH***. The **WAYPOINT SETUP** screen displays again with the latitude displayed.



8. Select **LON** and press ***SELECT***. Use the ▲ and ▼ keys to enter each number (followed by ***SELECT*** after each number entry). Press ***SAVE*** to keep that entry.

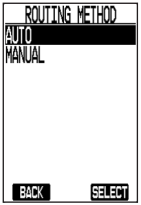
9. When done, press ***FINISH***. The **WAYPOINT SETUP** screen displays again with that entry displayed. Press ***SAVE*** to keep that entry and save it to the Waypoint Directory.

To Set Up a Route

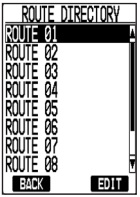
A route is a collection of waypoints that create a navigational path between points. Set up a route through the **NAVI** soft key.

1. From **MENU**, select the **WAYPOINT SETUP** menu.

2. Use the ▲ and ▼ keys to select **ROUTING METHOD** and press ***SELECT***. **AUTO** and **MANUAL** display.
   - If AUTO selected, the screen automatically changes to the next destination.
   - If MANUAL is selected, navigation will not start until you press ***NEXT***.



3. Select **ROUTE DIRECTORY** from the **WAYPOINT SETUP** screen and press ***SELECT***. The **ROUTE DIRECTORY** screen displays a list of available routes.

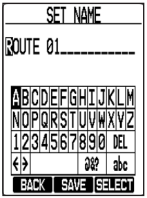


NOTE: These settings cannot be set or changed during navigation. To make any changes, first exit Navigation mode.

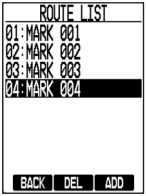
4. Use the ▲ and ▼ keys to select a route and press ***EDIT***. The **EDIT** screen displays again.

5. Use the ▲ and ▼ keys to select **NAME** and press ***SELECT***. The **SET NAME** popup keyboard displays.

6. Enter a name for the Waypoint. When complete, press ***SAVE***. The **EDIT** screen displays again.



7. Select **LIST** and press ***SELECT***.
   The **ROUTE LIST** screen displays.



8. Use the ▲ and ▼ keys to move the cursor to the waypoint route insertion point and press the ***ADD*** soft key. The **ROUTE LIST** displays a list of saved waypoints.
9. To add a waypoint, use the ▲ and ▼ keys to select a Waypoint and press ***ADD***.
10. Repeat Steps 8 and 9 for each waypoint you want to add to the route.
11. Press **BACK** to exit.

NOTE: The Waypoint selected for the 01 position will be the first point to which your radio will navigate. When you reach that waypoint, the radio will navigate to the next waypoint (02) and continue through the list of waypoints until you return to your beginning waypoint (04).

ACCESSING NAVIGATION

When you press the ***NAVI*** soft key, the following two menus display:

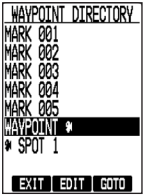
- **WAYPOINT DIRECTORY** - Displays your waypoint directory for access or editing. This includes information saved by ***MOB*** and ***MK POS*** keys. (MOB displays as MOB 001, 002, etc. if they were saved without being edited.
- **ROUTE DIRECTORY** - Displays your route directory for access or editing.

NOTE: You can save up to 10 route directories and up to 10 waypoints for each directories.

To Start Waypoint Navigation

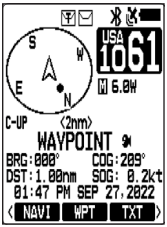
1. Press the ***NAVI*** soft key, then select **WAYPOINT DIRECTORY** from the **NAVIGATION** menu.

2. Select the desired waypoint and press the ***GOTO*** soft key to start navigating to your destination.



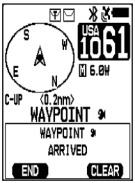
NOTE: Navigation cannot begin without the GPS location information. You can operate the radio during navigation, but you cannot edit or change location information (destination or route) during navigation.

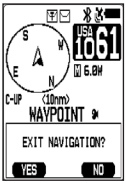
3. As you navigate, the screen displays your position information.



4. When you arrive at the destination, an arrival message displays and the arrival alert sounds. You can select whether to continue or to end navigation by pressing either the ***END*** or ***CLEAR*** soft keys.

   If you select ***CLEAR***, navigation continues; once you go out of range and return to the range, the arrival message displays and the arrival alert sounds again

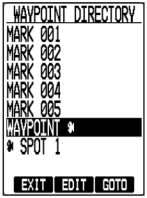




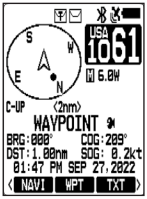
NOTE: You can stop navigating anytime by pressing the CLEAR key.

To Start Route Navigation

1. Select ***ROUTE***. The **ROUTE DIRECTORY** displays.



2. Select the desired route and press the ***GOTO*** soft key. The Compass screen displays and you can begin navigating to your first destination. (You can skip that destination by pressing the ***NEXT*** soft key.)



3. When you arrive at your first destination, the arrival alert will sound.
   - If the Routing method is set to MANUAL, navigation to the next destination will not start unless you press the NEXT soft key each time you reach a destination.
   - If the Routing method is set to AUTO, navigation to the next destination will automatically start after arriving at your first destination. (See page E-55.)

4. When you arrive at a destination, an arrival destination displays and the arrival alert sounds. You can select whether to continue or to end navigation by pressing the ***END*** or ***CLEAR*** keys.
   If you press the ***CLEAR*** soft key, navigation continues. When you go out of range and return to the range, the arrival message will display and the arrival alert will sound.

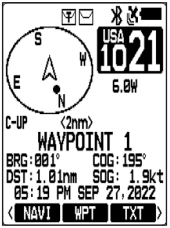
PARAMETER SETTINGS

You can select the compass display range and whether the compass display is based on the Course or North using the GPS settings. The distance at which the navigation system determines that the ship has arrived at its destination can be customized in the GPS settings. For more information, see page E-50. A dot representing the destination displays on the screen. If the distance to the destination exceeds the display range (indicated by the dot reaching the circle's edge), you will need to adjust the display range manually or set the GPS to **AUTO**.

When set to **AUTO**, the range will automatically adjust as needed to keep the destination on screen.

When navigating, the screen displays the following information:

- BRG - Bearing
- COG - Course over ground
- C-UP (or N-UP) - Course Up (or North Up)
- Destination - Indicated by a dot in the compass
- Destination - (Waypoint 1)
- Display Range (Distance from Center) - (2nm)
- DST - Distance
- HH:MM AM/PM - Current time
- SOG - Speed over ground



NMEA Operation

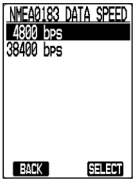
Your radio supports NMEA0183 (version 4.10), a standard for data communication between marine instruments. NMEA sentences contain different sets of data related to your ship. When your radio received another boat's position data in a DSC call, the radio sends the position data to the chart plotter so you can see the location.

When the radio receives a DSC call (Distress, Position Reply, or Position Send), it outputs DSC/DSE sentences from the NMEA output port in the following formats:

- $CDDSC,12,3081234000,,07,00,0354013946,0657,,,S,E*6D
- $CDDSE,1,1,A,3081234000,00,60875646*13

POSITION (POS) DATA OUTPUT

- NMEA DATA OUTPUT - NMEA data output ON or OFF.
- NMEA0183 OUTPUT - NMEA sentence to send.
- NMEA0183 Data Speed - Set which NMEA data out speed to use (4800 or 38400)



If your NMEA device does not initially receive data from your radio, check the accessory cable connection and NMEA0183 parameters.

Make sure the NMEA0183 is ON in the **POS DATA OUTPUT** menu.

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.

Problem	Things to Try
The radio won't turn on.	- Verify that the battery is installed correctly. - Charge the radio.
The power LED on the charger doesn't turn on.	- 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.	- 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-64. - 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. - Try transmitting on a different channel.
I can't hear anything from the speaker.	- Adjust the squelch level; it is probably too high. - Adjust the volume level; it is probably too low. - If the radio has been exposed to water, there may be water on the speaker. Press **SPKR** soft key to sound a tone that will help remove the water. Allow the radio to dry out.
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.
Scan won't start.	Be sure you have channels saved into Memory.
No beeps sound.	Key beep is set to OFF. Turn Key Beep on.
I cannot send DSC calls.	- Make sure the MMSI (DSC self ID) is entered.
I cannot receive GPS position data.	Reposition the radio so that nothing blocks the internal GPS antenna from the satellite signal. Verify that **MENU/GPS/INTERNAL GPS/UNIT POWER** = ON.
Where can I find my radio's serial number?	The serial number is on a plate inside the battery compartment.
When I turn on the radio, I get a message that "positioning data is not acquired."	Be sure there are no obstructions between the radio's antenna and the sky. If you are inside the cabin, move outside.

SPECIFICATIONS

General	
Channels	All US/International/Canada marine channels
	10 Weather channels
Freq. Control	PLL
Freq. Tolerance at 77°F/25°C	± 0.1PPM
Oper. Temp.	-4°F (-20°C) to +131°F(+55°C)
Storage Temp.	-22°F (-30°C) to +140°F(+60°C)
Antenna Impedance	50 ohm
Microphone	Built-in Electret type
Regulation	FCC, IC
Speaker	Bult-in 36mm 1W 16 ohm
Power Source	Li-Ion Polymer Recharge Battery 7.4V 1,800mAh or 4 AAA Alkaline batteries
Size (without antenna, and belt clip)	6.122(H) x 2.562(W) x 1.633(D) inch 145.498(H) x 65.074(W) x 41.478(D) mm
Weight (with battery, antenna, and belt clip)	11oz (included Li-Ion battery pack and antenna) (approx. 313g)
Transmitter	
Power Output	With Li-Ion Battery Pack: H/M/L = 6W/2.5W/1W With AAA Alkaline Batteries : M/L = 2.5W/1W
Frequency Tolerance @77°F (25°C)	+/-0.1PPM
Spurious Emission	-30dBm
Max. Deviation @50mV input	+/-4.6KHz
Current Drain @ high power 6W	1.7A max
Receiver	
Sensitivity for 20dB SINAD	0.24uV
Squelch Sensitivity (Level 1)	0.22uV
Audio Frequency Response 1KHz ref.	+5.5dB @500Hz -6.2dB@2KHz

Adjacent Channel Selectivity +/- 25KHz	73dB
Intermodulation	69dB
Ham and Noise Ratio	50dB
Audio Output Power Max. (Internal SP)	0.7W
Current Drain @ no signal	160mA (RF 1uV W/O Mod. VOL=1(GPS, LED OFF) 430mA (RF 1mV W/Mod. VOL=15 (GPS, LED OFF)
GPS	
Acquisition Sensitivity ON	51 dB (input -103dBm @GPS anechoic box)
Acquisition Time	30 sec (input -103dBm @GPS anechoic box
Bluetooth	
Sensitivity	-85dBm (input -60dBm, 1Mbps BLE IDLE TX BT anechoic box)
TX Power	1dBm (@BT anechoic box)
Charger	
Power Supply Voltage	DC12V (DC10V ~ 15V)
Pre Charge Current	75mA
Rapid Charge Current	650mA

Features and specifications are all subject to change without notice.

REFERENCE TABLES

Channel Descriptions and What They Mean

The table below lists the display name or channel description used in the following tables and what each description means.

Channel name/description	Used for
DISTRESS SAFETY AND CALLING	primarily emergency messages and distress calls
INTERSHIP SAFETY	safety messages from one ship to another, or from a ship to Coast Guard aircraft
NON-COMMERCIAL (recreational or voluntary ships only)	messages about the needs of the ship, including fishing reports, rendezvous, scheduling repairs and berthing information
COMMERCIAL (working ships only)	messages about the needs of the ship or the business the ship is engaged in
PUBLIC CORRESPONDENCE/ MARINE OPERATOR	calls to the marine operator at a public coast station. Marine operators can connect you to the telephone network so you can make and receive calls. (There is usually a charge for this service.)

Channel name/description	Used for
PORT OPERATIONS/VTS (ship traffic system)	messages about the movement and safety of ships in or near ports, locks or waterways. In certain major ports, some channels may be restricted to specific types of port operations messages.
NAVIGATIONAL/BRIDGE TO BRIDGE	messages about ship navigation, for example, passing or meeting other ships, maneuvering through locks, or navigating around drawbridges. Messages must be short!
STATE CONTROL	messages about government regulation and control, boating activities, or assistance to ships; also used to talk to ships and coastal stations operated by state or local governments
DIGITAL SELECTIVE CALLING	DSC signals only (no voice communications allowed at any time)

MARINE RADIO CHANNEL CHART

Ch No.	U	I	C	TX	RX	S/D	Channel Type/Name
01		x	x	156.050	160.650	D	Marine Operator
1001	x			156.050	156.050	S	Vessel Traffic System/ Commercial
02		x	x	156.100	160.700	D	Marine Operator
03		x	x	156.150	160.750	D	Marine Operator
1003	x			156.150	156.150	S	US Gov't only; Coast Guard
04		x		156.200	160.800	D	Marine Operator
1004			x	156.200	156.200	S	Canadian Coast Guard
05		x		156.250	160.850	D	Marine Operator
1005	x		x	156.250	156.250	S	Vessel Traffic System/ Commercial
06	x	x	x	156.300	156.300	S	Inter-ship safety
07		x		156.350	160.950	D	Marine Operator
1007	x		x	156.350	156.350	S	Commercial
08	x	x	x	156.400	156.400	S	Commercial (International: Inter-Ship)

Ch No.	U	I	C	TX	RX	S/D	Channel Type/Name
09	x	x	x	156.450	156.450	S	INT and CAN: Boater Calling Channel US: Non-Commercial
10	x	x	x	156.500	156.500	S	Commercial
11	x	x	x	156.550	156.550	S	Vessel Traffic System
12	x	x	x	156.600	156.600	S	Vessel Traffic System
13	x	x	x	156.650	156.650	S	Bridge to Bridge US and CAN: 1W
14	x	x	x	156.700	156.700	S	Vessel Traffic System
15	x			INHIBIT	156.750	Receive Only	Environmental
15		x	x	156.750	156.750	S	Environmental INT and CAN: 1W
16	x	x	x	156.800	156.800	S	Distress, Safety, Calling
17	x	x	x	156.850	156.850	S	Government Maritime Control (1W) CAN: State Control (1W)
18		x		156.900	161.500	D	Port Operation
1018	x		x	156.900	156.900	S	Commercial
19		x		156.950	161.550	D	Port Operation, Ship Movement
1019	x	x	x	156.950	156.950	S	US: Commercial CAN: Canadian Coast Guard
2019		x		161.550	161.550	S	
20	x	x	x	157.000	161.600	D	Port Operations CAN: Canadian Coast Guard (1 W)
1020	x	x		157.000	157.000	S	Port Operations
2020		x		161.600	161.600	S	
21		x		157.050	161.650	D	Port Operations

Ch No.	U	I	C	TX	RX	S/D	Channel Type/Name
1021	x		x	157.050	157.050	S	US: Coast Guard Only CAN: Canadian Coast Guard
2021			x	INHIBIT	161.650	S	Continuous Marine Broadcast (CMB) Service
22		x		157.100	161.700	D	Port Operations, Ship Movement
1022	x		x	157.100	157.100	S	US Coast Guard Liaison and Canadian Airtime Safety Information Broadcasts Announced on Channel 16
23		x	x	157.150	161.750	D	Marine Operator
1023	x			157.150	157.150	S	US Coast Guard Only
2023			x	INHIBIT	161.750	S	MB Service
24	x	x	x	157.200	161.800	D	Marine Operator
25	x	x	x	157.250	161.850	D	Marine Operator
2025			x	INHIBIT	161.850	S	CMB Service
26	x	x	x	157.300	161.900	D	Marine Operator
27	x	x	x	157.350	161.950	D	Marine Operator
28	x	x	x	157.400	162.000	D	Marine Operator
2028			x	INHIBIT	162.000	S	CMB Service
60		x	x	156.025	160.625	D	Marine Operator
61		x		156.075	160.675	D	Marine Operator
1061	x		x	156.075	156.075	S	Public Coast: Coast Guard East Coast: Commercial Fishing Only CAN: Canadian Coast Guard
62		x		156.125	160.725	D	Marine Operator
1062			x	156.125	156.125	S	Canadian Coast Guard
63		x		156.175	160.775	D	Marine Operator
1063	x		x	156.175	156.175	S	VTS

Ch No.	U	I	C	TX	RX	S/D	Channel Type/Name
64		x	x	156.225	160.825	D	Marine Operator
1064	x		x	156.225	156.225	S	Marine Operator Port Operation, Ship Movement
65		x		156.275	160.875	D	Marine Operator
1065	x		x	156.275	156.275	S	Port Operation
66		x		156.325	160.925	D	Marine Operator
1066	x		x	156.325	156.325	S	Port Operations CAN: 1W
67	x	x	x	156.375	156.375	S	Bridge-to-Bridge International: Port Operations US: 1W
68	x	x	x	156.425	156.425	S	Non -Commercial
69	x	x	x	156.475	156.475	S	Non-Commercial
70	x	x	x	156.525	156.525	DSC Only	DSC
71	x	x	x	156.575	156.575	S	Non-Commercial
72	x	x	x	156.625	156.625	S	Non-Commercial US: Non-Commercial, Ship-to-Ship
73	x	x	x	156.675	156.675	S	Port Operations
74	x	x	x	156.725	156.725	S	Port Operations
75	x	x	x	156.775	156.775	S	Port Operations (1 Watt Only)
76	x	x	x	156.825	156.825	S	Port Operations (1 Watt Only)
77	x	x	x	156.875	156.875	S	Port Operations US and INT: Ship to Ship US and CAN: 1 Watt Only
78		x		156.925	161.525	D	Port Operations
1078	x	x	x	156.925	156.925	S	Non-Commercial
2078		x		161.525	161.525	S	
79		x		156.975	161.575	D	Port Operations
1079	x	x	x	156.975	156.975	S	Commercial
2079		x		161.575	161.575	S	

Ch No.	U	I	C	TX	RX	S/D	Channel Type/Name
80		x		157.025	161.625	D	Port Operations
1080	x		x	157.025	1570.25	S	Commercial
81		x		157.075	161.675	D	Port Operations
1081	x		x	157.075	157.075	D	Government CAN: Canadian Coast Guard
82		x		157.125	161.725	D	Port Operations
1082	x		x	157.125	157.125	S	Government CAN: Canadian Coast Guard
83		x		157.175	161.775	D	Port Operations
1083	x		x	157.175	157.175	S	Coast Guard CAN: Canadian Coast Guard
2083			x	INHIBIT	161.775	S	Canadian CG Continuous Marine Broadcast (CMB) Service
84	x	x	x	157.225	161.825	D	Marine Operator
85	x	x	x	157.275	161.875	D	Marine Operator
86	x	x	x	157.325	161.925	S	Marine Operator
87	x	x	x	157.375	157.375	S	Marine Operator
88	x	x	x	157.425	157.425	S	U: Commercial (Ship-to-ship) I: Marine Operator C: Port Operation

WEATHER CHANNELS AND FREQUENCIES (US, CAN, AND INTL)

Ch No.	RX Freq	Name on display
WX01	162.5500	162.550 MHz
WX02	162.4000	162.400 MHz
WX03	162.4750	162.475 MHz
WX04	162.4250	162.425 MHz
WX05	162.4500	162.450 MHz
WX06	162.5000	162.500 MHz
WX07	162.5250	162.525 MHz
WX08	161.6500	161.650 MHz
WX09	161.7750	161.775 MHz

Ch No.	RX Freq	Name on display
WX10	163.2750	163.275 MHz

EMERGENCY ALERT (SAME) SYSTEM

Types of Events

- A WARNING is an event that alone poses a significant threat to public safety and/or property, probability of occurrence and location is high, and the onset time is relatively short.
- A WATCH meets the classification of a warning, but either the onset time, probability of occurrence, or location is uncertain.
- An EMERGENCY is an event that, by itself, would not kill or injure or do property damage, but indirectly may cause other things to happen that result in a hazard. For example, a major power or telephone loss in a large city alone is not a direct hazard, but disruption to other critical services could create a variety of conditions that could directly threaten public safety.
- A STATEMENT is a message containing follow up information to a warning, watch, or emergency.

Event	SAME Code	Type
Test Message	ADR	Test
Avalanche Watch	AVA	Watch
Avalanche Warning	AVW	Warning
Biological Hazard Warning	BHW	Warning
Boil Water Warning	BWW	Warning
Blizzard Warning	BZW	Warning
Child Abduction Emergency	CAE	Advisory
Civil Danger Warning	CDW	Warning
Civil Emergency Message	CEM	Emergency
Coastal Flood Watch	CFA	Watch
Coastal Flood Warning	CFW	Warning
Chemical Hazard Warning	CHW	Warning
Contaminated Water Warning	CWW	Warning
Dam Break Watch	DBA	Watch
Dam Break Warning	DBW	Warning
Contagious Disease Warning	DEW	Warning
Practice/Demo Warning (*1)	DMO	Advisory
Dust Storm Warning	DSW	Warning
Emergency Action Notification	EAN	Warning

Event	SAME Code	Type
Emergency Action Termination	EAT	Advisory
Earthquake Warning	EQW	Warning
Evacuation Immediate	EVA	Watch
Evacuation Immediate	EVI	Warning
Extreme Wind Warning	EWW	Warning
Flood Contamination Warning	FCW	Warning
Flash Flood Watch	FFA	Watch
Flash Flood Statement	FFS	Advisory
Flash Flood Warning	FFW	Warning
Flood Watch	FLA	Watch
Flood Statement	FLS	Statement
Flood Warning	FLW	Warning
Fire Warning	FRW	Warning
Flash Freeze Warning	FSW	Warning
Freeze Warning	FZW	Warning
Hurricane Statement	HLS	Statement
Hazardous Materials Warning	HMW	Warning
Hurricane Watch	HUA	Watch
Hurricane Warning	HUW	Warning
High Wind Watch	HWA	Watch
High Wind Warning	HWW	Warning
Iceberg Warning	IBW	Warning
Industrial Fire Warning	IFW	Warning
Local Area Emergency	LAE	Emergency
Law Enforcement Warning	LEW	Warning
Landslide Warning	LSW	Warning
National Audible Test	NAT	Advisory
National Information Center	NIC	Advisory
National Message Notification	NMN	Advisory
National Periodic Test	NPT	Advisory
National Silent Test	NST	Advisory
Nuclear Power Plant Warning	NUW	Warning
Power Outage Advisory	POS	Advisory
Radiological Hazard Warning	RHW	Warning

Event	SAME Code	Type
Required Monthly Test	RMT	Test
Required Weekly Test	RWT	Test
Special Marine Warning	SMW	Warning
Special Weather Statement	SPS	Statement
Shelter in Place Warning	SPW	Warning
Storm Surge Watch	SSA	Advisory
Storm Surge Warning	SSW	Warning
Severe Thunderstorm Watch	SVA	Watch
Severe Thunderstorm Warning	SVR	Warning
Severe Weather Statement	SVS	Statement
Tornado Watch	TOA	Watch
911 Telephone Outage Emergency	TOE	Advisory
Tornado Warning	TOR	Warning
Tropical Storm Watch	TRA	Watch
Tropical Storm Warning	TRW	Warning
Tsunami Watch	TSA	Watch
Tsunami Warning	TSW	Warning
Volcano Warning	VOW	Warning
Wild Fire Watch	WFA	Watch
Wild Fire Warning	WFW	Warning
Winter Storm Watch	WSA	Watch
Winter Storm Warning	WSW	Warning
Unrecognized Warning	**W	Warning
Unrecognized Watch	**A	Watch
Unrecognized Emergency	**E	Advisory
Unrecognized Statement	**S	Advisory

(*1) The SAME Alert Tone will not sound when the radio detects DMO.

No Response Event Code

TXB	Transmitter Backup On
TXF	Transmitter Carrier On
TXO	Transmitter Carrier On
TXP	Transmitter Primary On

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-64 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 ship. 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 ship, 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 ship is underway.
- If you hear a distress call, wait a few minutes to let a shore station or Coast Guard ship 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: 16K0G3E

Transmitter Frequency Range: 156.025-161.600 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 following 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.

Front of Mouth Operation

This device was tested for typical front of mouth operations. To comply with RF exposure requirements, a minimum separation distance of 1 inch (25 mm) must be maintained between the user's face and the handset, including the antenna. 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 and Canada.

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

(RBRC® is a registered trademark of Call2Recycle.)

COMPLIANCE

FCC PART 15

The equipment has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment. Any change or modification must be approved in writing by Uniden.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Tout changement ou modification non approuvé expressément par la partie responsable pourrait annuler le droit à l'utilisateur de faire fonctionner cet équipement. Tout changement ou modification doit être approuvé par écrit par Uniden.

Avis de conformité à la FCC : Ce dispositif a été testé et s'avère conforme à l'article 15 des règlements de la Commission fédérale des communications (FCC). Ce dispositif est soumis aux conditions suivantes: 1) Ce dispositif ne doit pas causer d'interférences nuisibles et; 2) Il doit pouvoir supporter les parasites qu'il reçoit, incluant les parasites pouvant nuire à son fonctionnement.

IC

This device complies with Industry Canada's license-exempt RSSs. Operation is subject to the following two conditions:

(1) this device may not cause interference, and

(2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux normes CNR d'Industrie Canada destinés aux appareils radio exempts de licence. Son fonctionnement est soumis aux deux conditions suivantes :

1) Cet appareil ne doit pas causer d'interférences nuisibles et;

2) Il doit pouvoir accepter les interférences, incluant celles pouvant nuire à son fonctionnement normal.

RF EXPOSURE COMPLIANCE

This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other

antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body, with 0mm separation.

CONFORMITÉ À l'EXPOSITION AUX RF

Cet équipement est conforme aux limites d'exposition aux radiations FCC/ISED définies pour un environnement non contrôlé. L'utilisateur final doit suivre les instructions d'utilisation spécifiques pour satisfaire à la conformité d'exposition RF. Cet émetteur ne doit pas être situé au même endroit ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

L'appareil portable est conçu pour répondre aux exigences d'exposition aux ondes radio établies par l'ISED. Ces exigences fixent une limite de DAS de 1,6 W/kg en moyenne sur un gramme de tissu. La valeur SAR la plus élevée signalée dans le cadre de cette norme lors de la certification du produit pour une utilisation lorsqu'il est correctement porté sur le corps, avec une séparation de 0 mm.

ISED ANTENNA STATEMENT

This radio transmitter (MHS338BT – IC: 513C-UT665) has been approved by Innovation, Science and Economic Development Canada to operate with the antenna type listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device. The following antenna type can be used at the maximum 3.0 dBi gain with a 50 Ohm impedance required for each antenna type:

- Supplied Rubber Flex Antenna

ÉNONCÉ D'ANTENNE ISED

Cet émetteur radio (MHS338BT – IC: 513C-UT665) a été approuvé par Innovation, Science et Développement économique Canada pour fonctionner avec les types d'antennes listés ci-dessous, avec le gain maximum autorisé indiqué Les types d'antennes non inclus dans cette liste qui ont un gain supérieur au gain maximum indiqué pour tout type listé sont strictement interdits d'utilisation avec cet appareil.

Les types d'antennes suivants peuvent être utilisés avec un gain maximal de 3 dBi et une impédance de 50 Ohms est requise pour chaque type d'antenne :

- Antenne flexible en caoutchouc fournie

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 exclusions 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
C/O Saddle Creek
743 Henrietta Creek Rd., Suite 100
Roanoke, TX, 76262

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