148mm

210mm

210mm

Uniden®

UM625c

FIXED MOUNT VHF MARINE TWO-WAY RADIO

ENGLISH
FRANÇAIS
ESPAÑOL

OWNER'S MANUAL

Uniden advanced marine technology-www.uniden.com

front

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. For frequencies/ channels that are currently for use in the U.S. without an individual license, please 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).

FCC / Industry Canada Information

Certification FCC Part 80 or RSS-182/188

Output Power 1 Watt (low) and 25 Watts (high)

Emission 16K0F3E, 16K0F2D

Transmitter Frequency Range 156.025 to 157.425 MHz

FCC Identifier AMWUT601

IC Certification Number 513C-UT601D

This device complies with the GMDSS provisions with Part 80 of the *FCC Rules*, as well as 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 Corporation. Changes or modifications not approved by Uniden could void the user's authority to operate the equipment.

The cords on this product and/or accessories contain lead, a chemical known to the State of California to cause birth defects or other reproductive harm. *Wash hands after handling.* Uniden works to reduce lead content in our PVC coated cords in our products and accessories.

Installer Instructions

To connect an optional external antenna to the radio for your WHAM x 4, you will need a 2.4GHz antenna with mounting bracket and a cable with N-type male connectors. Keep the antenna lead-in wire as short as possible.

Follow these steps to connect an optional external antenna to the radio.

1. Use a mounting bracket to mount the antenna on a vertical mast or pole.
2. Run the cable from the antenna to the radio.
3. Attach one end of the cable to the connector lug on the antenna, then connect the other end to the External Antenna Connector jack on the back of the radio.

Contents

About Digital Selective Calling

Digital Selective Calling
DSC is a technique used by marine radio systems to augment calling the another station by voice. It permits other vessels to be called up by keying in a unique identity number known as the MMSI. It also provides a button that will generate a distress alert identifying the vessel in distress, the nature of the problem and a position derived from an installed, optional Global Positioning Satellite (GPS) device.

The feature was implemented in February 1999 as an integral part of the Global Maritime Distress and Safety System (GMDSS).

Digital Selective Calling (DSC) lets mariners instantly send automatically formatted distress alerts to rescue authorities anywhere in the world. Digital selective calling also lets mariners initiate or receive distress, urgency, safety and routine radiotelephone calls to or from any similarly equipped vessel or shore station, without requiring either party to be near a radio loudspeaker. DSC acts like the dial and bell of a telephone, allowing you to “direct dial” and “ring” other radios, or allow others to “ring” you, without having to listen to a speaker.

Your radio's DSC Call feature lets you transmit and receive DSC Calls based on ITU-R M.493-11. For a detailed discussion of this standard, you can refer to the following web site document: *http://www.gmdss.com.au/ITU%20DSC%20tech%20spec.pdf* and read a full explanation on line.

If you have an optional GPS installed, you can send a distress message in an emergency situation which includes your position. You can also send and receive position data to and from other vessels. Additionally, you can set up and use a directory of other vessels with DSC radios.

The radio's NMEA input and output feature lets you display and use vessel information. When equipped with an optional GPS, the UM625c can send and receive DSC calls that include the following information: distress, individual, individual ack(nowledgement), all ships, group, position request, position reply, and position send. DSC calls to your radio can receive include distress ack, geographic, distress relay, and distress relay ack.

Mobile Maritime Service Identity (MMSI)

This refers to a unique nine digit identification number designated for each qualified vessel or shore station. It is in a way, a maritime equivalent of a telephone number. You must obtain your personal MMSI before you can program and or transmit data mentioned above. If you have access to the web, open either http://*www.boatus.com* and navigate to the convenient MMSI application form provided. Or, go to http://www.seatow/boatingsafety/mmsi/mmsiRegister.asp and complete the on-line form provided. If you do not have web access, you can call, toll free, BoatUS, in Alexandra, VA at 1-800 563-1536 and request that the MMSI form be mailed or faxed to you. This presumes you use a recreational vessel in domestic U.S. waters and that you are not otherwise required to be licensed. Because BoatUS is set up to take advantage of an electronic registration system, using standard mail or fax will be much slower. You can also call the FCC Forms Distribution Center at 1-800 418-3676 who then will provide you with the form types they require.

Introduction

Your Uniden UM625c Marine Radio combines state-of-the-art technology with rugged durability and ease of use. The radio's all solid-state design and conservatively-rated components and materials make it an ideal choice for harsh marine environments. The radio's large color display and backlit control buttons make it easy to use even in extreme lighting and weather conditions.

The radio's memory channel scan feature lets you set it so it quickly scans and tunes only the channels you select. The Triple Watch feature lets you easily scan Coast Guard calling, hailing, and distress channels along with any channel you want, and you can tune Coast Guard calling, hailing, and distress channels by pressing a single button. The weather alert features let you monitor weather alert broadcasts and even sound an audible alarm if bad weather is reported in an area you specify.

You can connect an optional GPS module to the radio to help keep track of your current location with space-age precision. You can connect and use a wide variety of optional equipment with the radio, including an FMB321 flush mount, 2 hailer horns, GPS module, wireless microphones, and a plotter. You can connect and use up to two WHAM or four WHAM x 4 wireless microphones with the radio, making onboard communications as flexible as you need them to be. You can even install an optional scrambler board in the radio letting you communicate privately with other vessels that have a scrambler installed.

You should read the rest of this Operating Guide thoroughly to acquaint yourself with all of your radio's features and functions. Save your receipt as proof-of-purchase in case you need to obtain warranty service. Features, specifications, and availability of optional accessories are all subject to change without notice.

Note: Your radio meets the stringent JIS7 waterproof specification. This means that the radio and microphone can be submerged to a depth of 1 meter for up to 30 minutes without incurring damage.

Feature Highlights

General Features

Channel Scan - You can set the radio so it scans only the channels you select or all channels.

Triple Watch - The radio lets you scan Coast Guard/Distress/Hailing Channel 16, secondary Coast Guard/Distress/Hailing Channel 9, and the currently selected channel in order.

Memory Channel Step - You can set the radio so it quickly tunes channels saved in the radio's memory.

Help Screen - The radio has help information built into it, making it easy to find out about any of the radio’s features or operations.

Demo Mode - In RADIO mode, press and hold **MENU** and **HI-LO** at the same time. The radio’s automatic demo mode starts. Do nothing further while the demonstration runs. To exit the demo, press and hold **MENU** and **HI-LO** again.

One-Touch Emergency Channel - You can quickly tune the radio to Coast Guard/Distress/Hailing Channel 16 and secondary Coast Guard/Distress/Hailing Channel 9 by pressing a single button.

Hi/Lo Transmit Power - You can set the radio's transmit power to 25 watts or 1 watt.

Channel Mode - You can set the radio's channel mode to USA, INT (international), or CAN (Canada).

Automatic and Manual Display Backlight Adjustment - The display automatically sets its brightness for day or night operation, to make it easier to see in extreme conditions. You can also manually adjust the backlight.

LCD Color Adjustment - You can adjust the LCD colors on the display to let you see them easier at night.

Key Beep Adjustment - You can adjust the volume of the tone you hear when you press a key.

Self Test - The radio automatically tests its hardware and displays the test results.

Channel Name - Lets you change the channel name that appears when you tune a channel.

Auto Position Reply Disable - You can set the radio so when it receives a position request call, it does not automatically reply with your current position.

Attenuator - You can set the radio so it attenuates (reduces) reception of strong signals.

Standby - You can set the radio to its unattended mode.

Receive Log - You can view the receive log, making it easy to see when somebody calls your vessel.

Weather Features

WX Alert Decode Mode - You can set your radio to monitor a selected weather radio channel for weather emergency signals or SAME (Specific Area Message Encoding) alerts for areas you specify. This lets you receive early warning when bad weather is in the area or a national, regional, or local emergency has been detected.

FIPS Code Programming - You can program your radio with up to 30 FIPS (Federal Information Processing Standard) codes for the areas you desire. If the radio receives a SAME alert tone, it checks it against the FIPS codes you programmed and alerts you if it finds a match.

DSC Features

DSC Call - You can use the radio to transmit and receive DSC Call information. See “Using the DSC Call Menu” on Page 26 for more information.

DSC Directory - You can set up a directory of other vessels that have a DSC-capable radio with a Maritime Mobile Service Identity (MMSI) number.

Auto Channel Switch Disable - You can set the radio so it does not automatically change the working channel when it receives a DSC Call. The radio automatically sends a signal to

the calling vessel that shows that your vessel's radio is unattended, and does not tune to the requested channel.

Optional Features

Scrambler - Install an optional scrambler board in the radio, so you can set the radio to scramble your voice when you transmit, helping you avoid being overheard by other vessels.

Hailer Features - You can use these features if you connect one or two optional hail horns to the radio.

- **Loud Hailer** - You can use the radio to talk and listen using the speaker.
- **Fog Horn** - You can use the radio to sound a fog horn. If you connect an optional GPS receiver to the radio, the radio can even sound the appropriate fog horn sound based on the type of vessel where the radio is installed (sail, power, or tow), and whether the vessel is moving or stopped.

GPS Features - You can use these features if you connect an optional GPS receiver to the radio.

- **GPS Intuitive** - The radio automatically suggests the correct channel mode based on its current location (USA, International, and Canadian channels).
- **Automatic Local Time Setting** - The radio sets itself to the correct local time.
- **Automatic Fog Horn** - The radio sounds the appropriate fog horn sound based on the type of vessel where the radio is installed (sail, power, or tow), and whether the vessel is moving or stopped.
- **NMEA Input** - Connect an optional GPS receiver to the radio, to display information such as your vessel's latitude and longitude, speed and course, and the date and time. You can also send position information and use GPS Intuitive data using this feature.
- **NMEA Output** - The radio automatically passes received DSC information to an optional connected chart plotter.

WHAM Input - If you connect up to two optional 900 MHz analog WHAM microphones to the radio, you can use it to control the radio from almost anywhere aboard your vessel.

WHAM x 4 Input - Connect up to four optional 2.4 GHz digital WHAM x 4 microphones to the radio, that you can use it to control the radio from almost anywhere aboard your vessel, and each WHAM x 4 user can communicate with another WHAM x 4 user. You can also use the radio's intercom function to communicate with each WHAM x 4 user. You can even use a second base radio as an intercom.

Understanding Your Radio

About This Manual

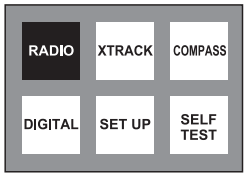
The screen displays used in this manual are representations of what might appear when you use your radio. Since what you see depends on the frequencies for your area and the settings you select, you might notice some differences between what is in this manual and what appears on your radio's display. Buttons you press appear in **BOLD** type, icons that appear on the display appear in **BOLD REVERSED** type, and text that appears on the display appears in *italic* type.

How The Radio's Controls Appear in This Manual

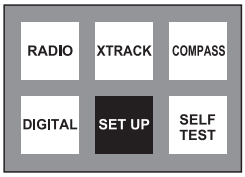
To help navigate the radio's menus, the steps shown in this manual describe the displays you see and the keys you press or control you operate to get a desired result.

This example shows you how to use the radio's menu to program a user MMSI for the first time. The MMSI is a unique nine digit identification number allocated to each vessel or shore station. It is analagous to a normal telephone number. This example shows you the button to press (**PUSH/SELECT**) to view a series of choices, the control to use (**PUSH/SELECT**) to view and select more choices, and the correct options to select (*SETUP* and *USER MMSI*) as you rotate **PUSH/SELECT**. It also instructs you to press **PUSH/SELECT** to select the options.

Important: If you have already set the user MMSI, **DO NOT CHANGE IT** unless you have received a new user MMSI. After you program a user MMSI for the first time, you can only change it once more. If you try to change the user MMSI a third time, the radio will not accept the change. To change the user MMSI again, you must return the radio to Uniden for reprogramming.



1. Quickly press and release **PUSH/SELECT**. A screen appears containing options you can select to work with the radio's features.



2. Rotate **PUSH/SELECT** to select *SET UP*, then press **PUSH/SELECT** to select it.
3. Press **PUSH/SELECT** to select *INITIALIZE*.
4. Rotate **PUSH/SELECT** to select *USER MMSI*, then press **PUSH/SELECT** to select it.

   If a user MMSI has already been programmed once or twice, it appears on the screen. **Stop here**.

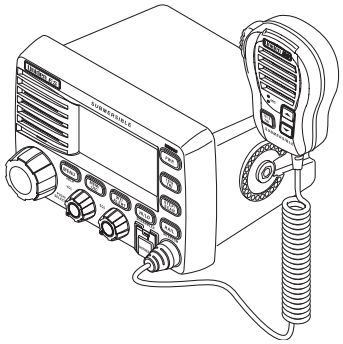
Otherwise, if a user MMSI has not been programmed, the first digit of the blank user MMSI flashes.

5. To enter the first digit of the user MMSI, rotate **PUSH/SELECT** until the digit appears, then press **PUSH/SELECT**. The digit you entered appears on the display and the flashing cursor moves to the next position.
6. Repeat Step 5 for each of the user MMSI's digits.
7. If the displayed user MMSI is correct, rotate **PUSH/SELECT** to select *YES*, then press **PUSH/SELECT** again to confirm it. The setup menu appears.

   If the displayed user MMSI is not correct, rotate **PUSH/SELECT** to select *NO*, then press **PUSH/SELECT** to confirm it. Then repeat Steps 4 through 6 to enter the correct user MMSI.

If you are new to using a marine radio, be sure to read “About Digital Selective Calling” on Page 5 for a quick DSC technology background. First you need to connect an antenna and power to the radio. Then you need to install the radio aboard your vessel. For help with this operation, see “Connecting the Antenna” on Page 13, “Connecting Power” on Page 13, and “Installation” on Page 13.

Included With the Radio

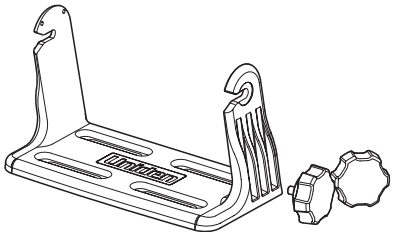


Radio (With Microphone Attached)

Mounting Hardware

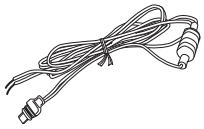
Microphone Mounting Bracket

Spare Fuse



Mounting Bracket

GPS/External Speaker Cable



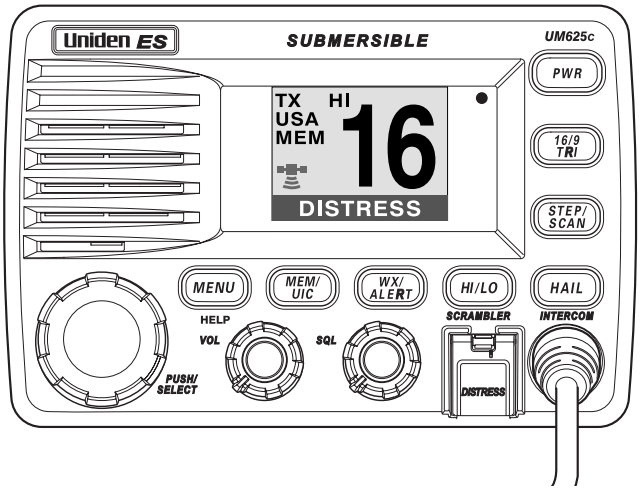
DC Power Cord

Hailer Cable

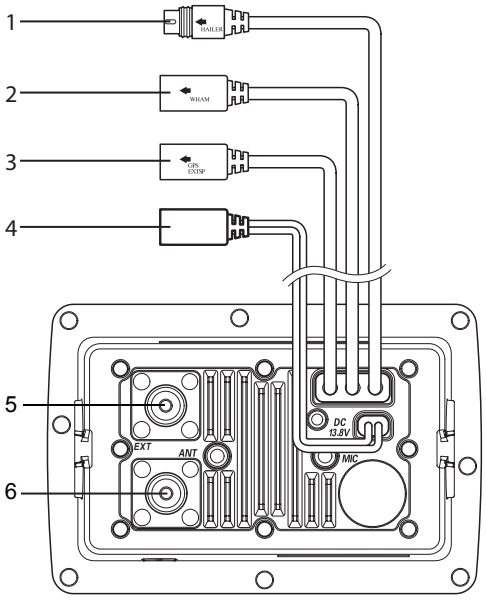
Owner’s Manual (not shown)

Controls, Connections, and Indicators

Front Panel



Rear Panel Connectors



1 **HAILER connector**

2 **WHAM connector**

3 **GPS EXTSP** (External Speaker) **connector**

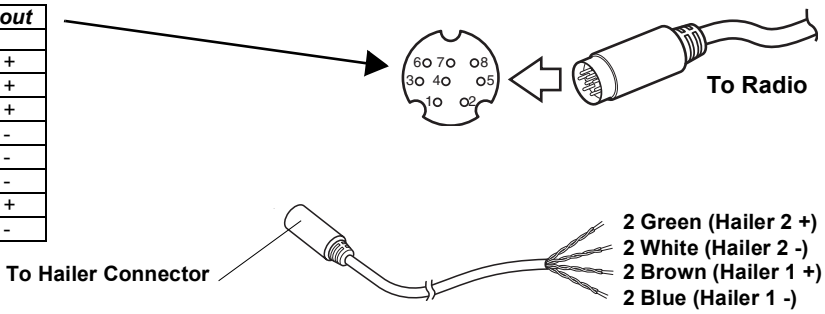
4 **DC jack**

5 **2.4GHz External WHAM x 4 Antenna**

6 **VHF Whip Antenna**

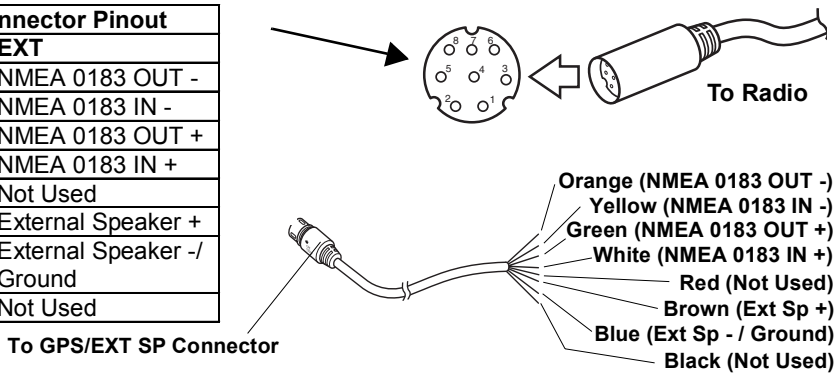
Hailer Connector/Cable

Connector Pinout	
PIN	**EXT**
1	Hailer 2 +
2	Hailer 2 +
3	Hailer 1 +
4	Hailer 2 -
5	Hailer 2 -
6	Hailer 1 -
7	Hailer 1 +
8	Hailer 1 -



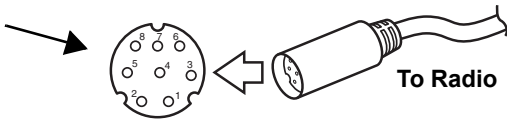
GPS/External Speaker Connector/Cable

Connector Pinout	
PIN	**EXT**
1	NMEA 0183 OUT -
2	NMEA 0183 IN -
3	NMEA 0183 OUT +
4	NMEA 0183 IN +
5	Not Used
6	External Speaker +
7	External Speaker -/ Ground
8	Not Used



WHAM Control Unit Connector

Connector Pinout	
PIN	**EXT**
1	Ground
2	DATA TX
3	DATA RX
4	Ground
5	13.8VDC
6	AUDIO TX (Signal AF received at transceiver to WHAM base station)
7	AUDIO RX (Signal MIC_AF received from WHAM base station to transceiver)
8	Ground



Setting Up The Radio

Connecting the Antenna

Your UM625c has been designed to accommodate all of the popular marine VHF antennas. However, the selection and the installation of the antenna is the responsibility of the user or installer. A variety of antennas are available from a number of quality suppliers. In general, we recommend an 8' antenna rated at 6dB for powerboats, and a 4' antenna rated at 3dB for sailboats.

In general, you can increase your communication range by using a high-gain antenna placed as high as possible above the water line. Locate the antenna away from metal objects. Keep coax feed cables as short as practical.

The FCC has determined that excessive radiation poses a health risk to people near radio transmitting antennas. Therefore, the antenna used with this radio should be installed using the following guidelines to ensure a suitable distance between the antenna and persons close by.

- Small whip antennas (3 dB or smaller) should be installed keeping at least 3 feet separation distance between the radiating element and people.
- Larger antennas (6 dB or 9 dB) should be installed with at least a 6 feet separation distance.
- No person should touch the antenna or come closer than the separation distance when the radio is transmitting.

To connect the antenna to the radio, screw its connector onto the antenna jack on the back of the radio.

Connecting Power

1. Connect the red wire of the supplied power cord to the positive (+) side of your distribution circuit or battery.
2. Connect the black wire of the supplied power cord to the negative (-) side of your distribution circuit or battery.

   Note: The power cord is equipped with a fuse to protect the radio. Use only a six (6) amp fast blow fuse for replacement.
3. Connect the power cord to the keyed connector on the power “pigtail”.

Installation

Caution: The UM625c is designed to use a nominal 13.8 volt negative ground battery system for power. Do not use a positive ground battery system to power the UM625c.

Keep in mind the flexibility designed into the UM625c so that you can most conveniently use it. Features which should be considered are:

- The universal mounting bracket may be installed on either the top or bottom of a shelf, on a bulkhead, or for overhead mounting.

- The remote speaker wires can be used with an auxiliary speaker.
- All connections are “plug-in” type for easy removal of the radio.
- By using an optional WHAM or WHAM x 4 (Wireless Handheld Access Microphone), the UM625c can be mounted completely out of the way.
- An accessory flush mount bracket (FMB321) is optional.

Choosing a Location

Here are some important factors to consider in selecting the location for your UM625c.

- While the UM625c is completely waterproof, it will last longer if protected from spray and splash.
- Connect the UM625c directly to the battery for best operation. Always keep the battery leads as short as possible. If a direct connection can not be made with the supplied power lead, any extension should be made using #12-14 AWG wire. Use larger gauge wire for longer extensions.
- Keep the antenna lead-in wire as short as possible. If you must use a long lead-in wire as in the case of a sailboat masthead antenna installation, we recommend you upgrade your lead-in wire according to the following table:

  Use RG-58 for distances less than 20 feet.

  Use RG-8X for distances less than 35 feet.

  Use RG-8U for distances less than 60 feet.
- Locate your antenna as high as possible and clear of metal objects. The reliable coverage range is a direct function of the antenna height.
- Select a location that allows free air flow around the heat sink on the rear of the radio.
- Select a location well away from the ship's compass. Auxiliary speakers also should be located away from the compass.

Engine Noise Suppression

Interference from the noise generated by the electrical systems of engines can sometimes be a problem with radios. The UM625c has been designed to be essentially impervious to ignition and alternator noise. However, in some installations it may be necessary to take measures to further reduce the effect of noise interference. The UM625c radio DC battery wires, antenna lead, and accessory cables should be routed away from the engine and engine compartment, and from power cabling carrying high currents. In severe cases of noise interference, it may be necessary to install a noise suppression kit. Contact the dealer from whom you purchased the radio for more information.

Installing the Radio

After you have carefully considered the various factors affecting your choice of location, follow these steps to install the radio.

1. Position the radio (with the bracket, microphone, power cord, antenna and any auxiliary cables installed) into the selected location to assure there is no interference with the surrounding items.

2. Mark the location of the mounting bracket.
3. Remove the bracket from the radio. Then use the bracket as a template to mark the holes to be drilled for the mounting hardware.
4. Drill the holes and mount the bracket with hardware compatible with the material of the mounting surface.

   Note: Do not use mounting knobs other than the ones supplied. Do not insert the knobs without attaching the bracket.
5. Connect all other auxiliary cables and accessories.

Important: Do not remove the protective rubber cover from any of the connectors on the back of the radio unless you are connecting another cable to them. These rubber covers are designed to prevent water from entering the radio.

6. Install the radio in the mounting bracket and connect all cables and accessories to the appropriate jacks and connectors.

Using a WHAM or WHAM x 4 Microphone With the Radio

To connect a WHAM or WHAM x 4 microphone to the radio, follow the steps listed in “Using the WHAM and WHAM x 4 Sub Menus” on Page 41. Then, follow the steps listed in “Setting a WHAM Base ID” on Page 42, and “Changing the Radio Link Channel for a WHAM x 4” on Page 42. Otherwise, if you are connecting a WHAM x 4 microphone, follow the steps listed in “Setting a WHAM x 4 Base ID” on Page 41, “Setting the WHAM x 4 Sub Radio Mode” on Page 41, and “Changing the Radio Link Channel for a WHAM x 4” on Page 42. Then refer to the owners manual provided with the WHAM or WHAM x 4 microphone for more information about connecting it to the radio.

Important: If you want to use an external antenna for your WHAM x 4 with your UM625c marine radio, it must be installed by a professional installer. Do not attempt to connect an external antenna to a radio yourself.

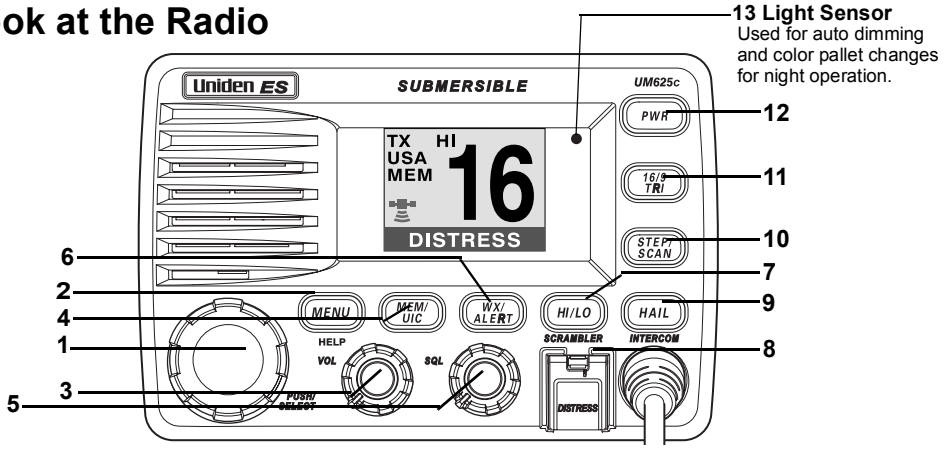
Note: You cannot use a WHAM or WHAM x 4 wireless microphone to set the user MMSI, WHAM setup, system setup, or self test on the radio. You cannot use a WHAM wireless microphone to use the scrambler, intercom, GPS display, channel tag, or status message display on the radio.

Using One or Two Hailer Horns With the Radio

Connect one or two hailer horns to the radio as shown in “Hailer Connector/Cable” on Page 12. Then follow the steps listed in “Using Hail” on Page 20.

Note: The hailer horns you connect to the radio should have a rated power output of at least 35 Watts and an impedance of 2 ohms.

A Look at the Radio



1. PUSH/SELECT - Rotate to tune channels and highlight menu items you want to select, then press to select the channel you tuned or the item you selected.

2. MENU/HELP - Press to use the menu for the DSC Call, and Fog Horn. Hold down for 2 seconds to use the radio's help function.

3. VOL - Rotate to adjust the volume.

4. MEM/UIC - Press to add to, or delete from the scan memory, the currently-tuned channel. Hold down for 2 seconds to change the channel's mode (USA/CAN/INT).

5. SQL - Rotate to adjust the squelch.

6. WX/ALERT - Press to listen to the active weather channel in your area. The radio automatically tunes to the active weather channel which it finds first. The weather channel's channel number appears on the display. Hold down for 2 seconds to set the radio to the weather alert mode (see "Using the Weather Function" on Page 23).

7. HI/LO/SCRAMBLER - Press to change the radio's output power. Hold down for 2 seconds to turn on the optional scrambler feature (see "Using the Scrambler" on Page 23).

8. DISTRESS - Lift the protective tab then hold down for 5 seconds to send a distress call (see Sending a DSC Distress Call on Page 24).

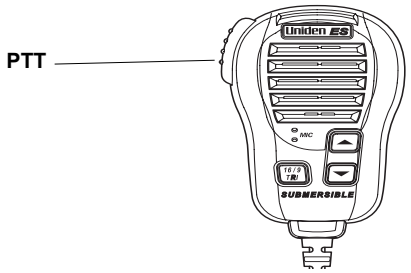
9. HAIL/INTERCOM - Press to turn on one or both hailers (see "Using Hail" on Page 20). Hold down for 2 seconds to use the radio's intercom feature (see "Using the Intercom" on Page 20).

10. STEP/SCAN - Repeatedly press to step through each channel in memory. Hold down for 2 seconds to use the radio's channel scan feature (see "Scanning Memory Channels" on Page 22).

11. 16/9 TRI - Press once to quickly tune to Coast Guard/Distress/Hailing Channel 16. Press again to quickly tune to Coast Guard/Distress/Hailing Channel 9. Press again to quickly tune to the previously-tuned channel. Hold down for 2 seconds to set the radio to the Triple Watch mode (see "Using Triple Watch" on Page 22).

12. PWR - Press to turn the radio on or off.

A Look at the Microphone



PTT - Press to send a transmission. Release to hear a transmission.

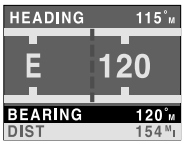
▲/▼ - Repeatedly press to tune channels and select menu items.

16/9 TRI - Press once to quickly tune to Coast Guard/Distress Channel 16. Press again to quickly tune to the secondary Hailing Channel 9. Press again to quickly tune to the previously-tuned channel. Press and hold to activate TRI Watch Channels 16/9 and the working channel.

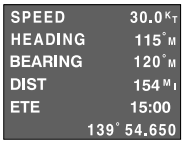
A Look At the Display

(1)

(2)



(3)



(4)

You can access each of the main screens by applying power, waiting about 4 seconds, then pressing the **PUSH/SELECT** control once to reach the menu selector screen. Rotate the **PUSH/SELECT** control until you see the desired screen highlighted. Then press the control to bring up the screen. The examples shown presume that you have connected an optional GPS unit.

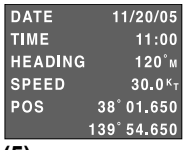
The RADIO screen **(1)** displays the selected channel and the channel name as well as other data you can select during setup. In this example, channel 16 is the Coast Guard/Distress/Hailing channel.

The XTRACK screen **(2)** displays direction, and bearing as well as Estimated Time Enroute if you have received a Distress, a position send from another vessel, or a position reply. The scale at the bottom is a guide to how far off course you might be. If the MMSI you receive has an associated name in your Directory, that name is automatically displayed.

The COMPASS screen **(3)** dynamically shows your heading and bearing. It is easily read rapidly as a convenience.

The DIGITAL screen **(4)** displays basic data regarding your vessel's movement, direction, ETE, and distance.

You can display a fifth screen **(5)** that is similar to screen 4 starting from the RADIO screen. Press and hold the **PUSH/SELECT** control for approximately 2 seconds. The screen to the right appears. To return to the RADIO screen, press and release the **PUSH/SELECT** control.



(5)

Basic Operation

Turning the Radio On and Off

Press **PWR** to turn on the radio. The radio sounds a tone and a screen showing the user MMSI appears if previously set.

If you have not set a user MMSI, see “Setting Up a User MMSI” on Page 34.

Note:If the radio is turned on for at least 3 seconds after you select a channel, it remembers the last channel you tuned when you turn it off.

Press **PWR** again to turn off the radio.

Selecting a Channel

Rotate **PUSH/SELECT** to select a channel. Rotating **PUSH/SELECT** clockwise tunes forward through the channels, while rotating **PUSH/SELECT** counterclockwise tunes backward through the channels. The currently-tuned channel appears on the display.

If the radio is set to marine mode, channel numbers appear as two digits. If the radio is set to WX mode, channel numbers appear as one digit.

Note: If *A* appears next to a channel number, this indicates the channel is in a simplex mode on the ship station transmit side of an international duplex channel.

Transmitting and Receiving

To transmit, hold down **PTT** on the microphone. TX appears on the display. Release **PTT** to receive. TX disappears.

Notes:

- If the channel is set to transmit at low power, you can change it to transmit at high power by pressing **HI/LO/SCRAMBLER.** If you are attempting to transmit on a normally power restricted channel while transmitting, press **HI/LO/SCRAMBLER** while holding down the **PTT** switch to overide the restriction. No other key except **HI/LO/SCRAMBLER** works.
- If you transmit continuously for longer than 5 minutes, TX and the channel number blink and the radio stops transmitting. This warns you that **PTT** might be stuck. To resume transmitting, release **PTT** then press it again.
- The radio cannot transmit on Channel 15 (USA).
- If you hold down **PTT** while turning on the radio, the radio sounds an error tone and TX and the channel number blink. No key except **HI/LO/SCRAMBLER** works.
- You cannot transmit while the radio is set to WX mode or Scan mode. If you press **PTT** while the radio is set to Scan mode, the radio cancels that mode but does not transmit.
- The radio cannot transmit voice data on Channel 70. Only DSC data such as a Distress Call can be transmitted on Channel 70.

Adjusting the Transmit Power

Press **HI/LO/SCRAMBLER** to adjust the transmit power. If the transmit power on the currently tuned channel is set to Hi (25W), pressing **HI/LO/SCRAMBLER** changes it to Lo (1W), and **LO** appears on the display. If the transmit power on the currently tuned channel is set to Lo, pressing **HI/LO/SCRAMBLER** changes it to Hi, and **HI** appears.

Important: The radio automatically sets itself to low transmit power if you tune to Channels 13, 67, 75, 76, 77 based on FCC rules. You cannot change the transmit power to high on Channel 75 or Channel 76. You can, in an emergency, overide the default setting on Channel 13 or Channel 67. Press **Hi/LO/SCRAMBLER** while holding in the **PTT** switch to switch to high.

Notes:

- You cannot change the transmit power while the radio is set to Scan mode.
- The radio automatically sets itself to high transmit power if you use **PUSH/SELECT** to tune to Channel 16, press **16/9 TRI**, or it receives a distress call. The radio sets itself back to low power if you use **PUSH/SELECT** to select another channel.

Using Scan

Note: If you hold down **STEP/SCAN** while the radio is set to WX mode or Coast Guard/ Distress/Hailing mode, it cancels that mode and starts memory channel scanning.

Using Triple Watch Scan

Triple Watch lets you easily scan emergency channels along with a channel you select. To use Triple Watch scan, hold down **STEP/SCAN** for about 2 seconds. The radio scans Channel 16, Channel 9, and the current memory channel. **TRI** appears on the display.

Using Normal Scan

Normal scan lets you quickly scan and tune only selected channels. To use normal scan, set the radio to Triple Watch scan then hold down **16/9 TRI** for about 2 seconds. The radio scans any channels you saved in memory and *SCANNING* appears.

Notes:

- If you use normal scan, the radio scans all channels except emergency channels. Use Triple Watch scan (see “Using Triple Watch Scan”) to scan emergency channels.
- You must save at least two or more channels in the radio's memory to use memory scan. See “Saving Channels in Memory” on Page 22 for more information.

Using All Channel Scan

In RADIO SETUP, set CHANNEL SCAN to ALL CH. Then, press and hold **16/9/TR** for 2 seconds during a Triple Watch scan setting. All channels are scanned except Emergency 16 and Emergency 9.

Using Step

Step lets you quickly tune through the channels you saved in the radio's memory. To use step, repeatedly press **STEP/SCAN**. The radio tunes a channel you stored in memory each time you press **STEP/SCAN**.

Using Hail

Note: You must connect one or two optional hailer horns to the radio to use the hail feature.

To enable the hail feature, press **HAIL/INTERCOM**. A selection screen appears. Then select the hailer you want to use (Hailer 1, Hailer 2, or both) then press **PUSH/SELECT** to select it.

Next, press **PTT** to speak. **TALK** appears. Release **PTT** to listen. **LISTEN** appears. You hear any response to your hail through the radio's speaker.

To adjust the hail outgoing volume, repeatedly press ▲ or ▼ on the microphone or rotate **PUSH/SELECT** on the radio. To exit hail, press **HAIL/INTERCOM** again.

Using the Intercom

The intercom feature lets you call optional WHAM x 4 microphones connected to the radio. You can select and call one microphone, or individually add each of several microphones to a temporary group using the Intercom Menu, or each microphone connected to the radio.

Notes:

- You cannot use a WHAM wireless microphone to use the intercom.
- WHAM x 4 microphone users can also call each other and the radio.
- If the WHAM x 4 microphone user cannot connect with the radio, the intercom feature does not work and the radio sounds an error tone.
- Intercom mode is cancelled if **16/9 TRI** or **DISTRESS** is pressed.

Follow these steps to use the intercom.

1. Hold down **HAIL/INTERCOM** for about 2 seconds.
2. Follow one of these steps to select one or all WHAM x 4 microphones connected.

   a. To select one WHAM x 4 microphone, rotate **PUSH/SELECT** until the WHAM x 4 microphone you want to talk to is highlighted on the INTERCOM screen then press **PUSH/SELECT** to select it.

   b. To create a temporary group of WHAM x 4 microphones, rotate **PUSH/SELECT** and select each mic listed. Rotate **PUSH/SELECT** and press the knob to add it to the group. A ***check*** icon appears for that mic.

   c. To select all the connected mics, rotate the **PUSH/SELECT** until ALL is highlighted. Press the knob to select all the mics.

   d. To call each microphone instead of all, rotate **PUSH/SELECT** to select *CALL*, then press **PUSH/SELECT** to select that mic. A ***check*** *icon* appears next to the selected mic on the radio's display and each selected microphone sounds an audible tone. When you select CALL and press **PUSH/SELECT**, you call another checked WHAM x 4 mic.

Notes:

- Only those WHAM x 4 microphones or sub radios with which the radio can communicate appear on the display.
- Only one pair of WHAM x 4 mics can be on the intercom unless you make a group or select all.
- No person in the group can hear the MRN signal except the main radio.
- If a DCS signal is received, or if 16/9/TRI is pressed, the Intercom mode reverts to Radio mode.
- A connected WHAM x 4 cannot change either the base or sub radio remotely.
- A connected WHAM x 4 unit cannot cancel INTERCOM mode remotely.

To exit intercom, hold down **HAIL/INTERCOM** for about 2 seconds.

Using GPS

Connect an external GPS unit to the NMEA0183 connection. The GPS unit then displays data and the UM625c displays its information in white to confirm valid data. If no valid data is represent, the information is displayed in red.

- To change to the GPS mode, press and hold **PUSH/SELECT** for 2 seconds. Date, time, speed, heading, latitude, and longitude are displayed.
- To change back to normal model, press and hold **PUSH/SELECT** for 2 seconds again.

  Note:

  If the radio fails to receive valid GPS data, no change is displayed on the radio.

  The local UTC time offset is automatically applied based on longitude and latitude data. It also takes into account the International Date Line.

  You can also adjust the time by TIME ADJUST and DAYLIGHT SAV.

  If no valid GPS data is present, any GPS information is displayed in red.

Using Battery Hi/Lo Detect

The radio automatically alerts you if the connected battery is providing too much or not enough voltage. If the battery is providing more than 16 volts, *CHECK BATTERY HIGH VOLTAGE* appears. If the battery is providing less than 11 volts, *CHECK BATTERY LOW VOLTAGE* appears. Press any key to delete the message temporarily. If the condition continues, the message returns.

Using 16/9 TRI

Press **16/9 TRI** once to quickly tune the radio to Channel 16. Press **16/9 TRI** again to quickly tune the radio to Channel 9. Press **16/9 TRI** a third time to quickly retune the radio to the previous channel.

Notes:

- Pressing **16/9 TRI** cancels WX mode if the radio is set to WX mode.

- Pressing **16/9 TRI** stops the radio from scanning if the radio is set to Scan mode.
- The radio cancels Coast Guard/Distress/Hailing mode if you press **WX**, **MENU/HELP**, **HAIL/INTERCOM**, or **STEP/SCAN**, hold down **STEP/SCAN** or **HAIL/INTERCOM**, or rotate **PUSH/SELECT**.

Using Memory Channel

Saving Channels in Memory

You can save channels you tune into the radio's memory. This makes it easy to quickly tune the channels again. To save a channel, tune to the channel then press **MEM/UIC** to save it.

MEM appears. To delete a channel from memory, tune to the channel then press **MEM/UIC**.

MEM disappears.

Notes:

- You cannot save a memory channel while in WX mode.
- You must store more than one channel in the memory for the memory channel scan to work.

Scanning Memory Channels

You can scan channels you saved in the radio's memory. This lets you quickly access and tune them. To scan memory channels, hold down **STEP/SCAN** for about 2 seconds. *SCANNING* appears. If the radio detects a transmission on a scanned channel, the channel number blinks. The radio waits 3 seconds after the transmission ends then resumes scanning. To stop scanning, hold down **STEP/SCAN** for about 2 seconds or press **PTT**.

Notes:

- Rotating **PUSH/SELECT** clockwise resumes scanning if the radio stopped on a transmission.
- Pressing **DISTRESS** also stops the radio from scanning.

Using Triple Watch

Triple Watch scans the selected working channel. Then, every 2 seconds, it moves to Channel 16 then Channel 9 in that order. If the radio detects a transmission on Channel 9 or Channel 16 while set to Triple Watch, the channel indicator blinks and the radio stops scanning for 2 seconds while you listen to that active channel.

Hold down **16/9 TRI** about 2 seconds to turn Triple Watch on or off. If Triple Watch is off, **TRI** appears and Triple Watch is enabled. If Triple Watch is on, **TRI** disappears and Triple Watch is disabled.

Notes:

- If Channel 9 is busy, the radio scans Coast Guard/Distress/Hailing Channel 9 and Coast Guard/Distress/Hailing Channel 16 in turn.
- If you turn on Triple Watch and Channel 16 is busy, the radio receives Coast Guard/Distress/Hailing Channel 16.

- If you turn on Triple Watch while the radio is set to Coast Guard/Distress/Hailing mode, the radio scans primary Coast Guard/Distress/Hailing Channel 16, secondary Coast Guard/
  Distress/Hailing Channel 9, and the last marine channel (Channel 16 or Channel 9).
- If you turn on Triple Watch while the radio is set to WX mode, the radio scans primary Coast Guard/Distress/Hailing Channel 16, secondary Coast Guard/Distress/Hailing Channel 9, and the WX channel.
- Triple Watch resumes if the signal of the channel you tuned is lost for 3 seconds.
- If the radio is scanning Coast Guard/Distress/Hailing Channel 9 or 16, the CH indicator changes.

Using the Scrambler

The radio's optional scrambler makes voice transmissions unintelligible to other radios without a scrambler or that are scrambler equipped but not set to the same scrambler code. The radio descrambles incoming scrambled voice transmissions if the transmitting radio is set to the same scrambler code.
If the scrambler is turned on, the radio can communicate only with other radios set to the same scrambler code.

You must install an optional scrambler board in the radio and set a scrambler code (see “Setting a Scrambler Code” on Page 43) to use the scrambler.

Note: You cannot enable scrambling using a WHAM microphone.

Hold down **HI/LO/SCRAMBLER** for 2 seconds to turn on the scrambler. **SCRAM** appears on the display. To turn off the scrambler, hold down **HI/LO/SCRAMBLER** for 2 seconds. **SCRAM** disappears.

Using the Weather Function

The FCC (Federal Communications Commission) has allocated channels for use by the National Oceanic and Atmospheric Administration (NOAA). Regulatory agencies in other countries have also allocated channels for use by their weather reporting authorities. NOAA and your local weather reporting authority broadcast your local forecast and regional weather information on one or more of these channels. To hear your local forecast and regional weather information, press **WX/ALERT**. Your radio scans through the weather band then stops on the first active weather frequency, and **WX** appears on the display. Rotate **PUSH/SELECT** to select another weather channel. To stop listening to the weather broadcast, press **WX/ALERT** again. The radio returns to the last channel you tuned before you selected the weather channel.

Using Weather Alert

To set the radio so it alerts you if it receives a weather alert, hold down **WX/ALERT** for 2 seconds. If the radio receives a weather alert, it sounds a tone. Press any key to listen to the weather broadcast. To turn off weather alert, hold down **WX/ALERT** for 2 seconds.

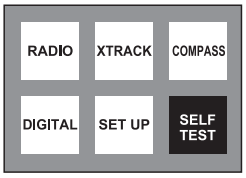
Note: You cannot listen to weather broadcasts while the weather alert mode is active.

Using SAME Alert

The National Weather Service precedes each weather alert with a digitally encoded SAME (Specific Area Message Encoding) signal, then a 1050 Hz tone. The SAME signal includes a FIPS (Federal Information Processing Standard) area code, and an event code that corresponds with the type of alert being sent. You can configure your radio to operate in SAME Standby mode, where it monitors a selected weather radio station for SAME alerts for areas you specify. You can program your radio with up to 30 FIPS codes for the areas you desire. The National Weather Service maintains a current list of FIPS codes at *http://www.nws.noaa.gov/nwr/*.

If the radio receives a SAME alert tone, it checks the tone against any FIPS codes you stored (see “Setting FIPS Codes” on Page 38 for more information). If the radio finds a match, it sounds a tone. Press any key to turn off the tone

Performing a Radio Self Test



Selecting this menu item performs a complete self test on the radio. The self test provides the following information.

- Hail Speaker Condition (Connect or Not Connected)
- GPS Condition (OK, Not Connected, No Data Flow, Sentences Not Supported)
- Battery Condition (OK,Voltage Too Low, Voltage Too High)

To run the self test, select *SELF TEST* then press **PUSH/SELECT**.

A screen appears showing the condition of each tested item. If *X* appears next to the item, the item did not pass the test. For more information about items that did not pass the test, rotate **PUSH/SELECT** to select the item, then press **PUSH/SELECT** to select it.

DSC Operation

Sending a DSC Distress Call

Important: Never test your radio’s distress feature under any circumstances. It is unlawful to send a false distress signal even for testing purposes.

Your radio’s distress feature lets you send a distress call using maximum (*HI*) power.

1. Lift the clear plastic protective tab over **DISTRESS.** If you momentarily press **DISTRESS**, the channel you were on at the time immediately changes to 16 and your power level changes to *HI*. If you hold down **DISTRESS** the radio beeps once per second. At the end of 5 seconds, a condition screen appears listing several distress condition choices. Rotate **PUSH/SELECT** to choose the appropriate distress condition or *EXIT* if you want to cancel.

2. If you have chosen the correct distress condition and you want to proceed, press **PUSH/SELECT**. The distress call is sent immediately. To cancel sending the call, rotate **PUSH/SELECT** to *CANCEL* and press the knob.

3. Once sent, the radio monitors transmission between CH 16 and CH 70. until it receives an acknowledgement signal (ACK)
4. The radio sounds an alert which lasts between 210 and 270 seconds. The sound ceases upon receipt of an ACK.

Notes:

- If your radio receives a DSC call from another radio, any message on your screen is replaced with the new one.
- If you press any key while there is a message displayed, the message disappears.
- The alert tone starts at a reduced volume and gradually becomes louder, reaching a maximum level after 10 seconds.
- The DCS tone for Routine or Distress stop automatically after 2 minutes when STANDBY mode is OFF. The Routine tone stops after 5 seconds while the Distress tone stops after 30 seconds when STANDBY is ON.
- When the radio receives a DSC call, it takes priority and all other modes/functions such as SCAN, TRIPLE WATCH, WX, WX ALERT and EMG are cancelled.

Receiving a DSC Distress Call

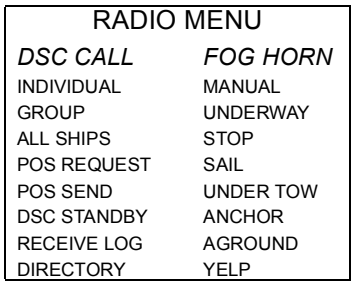
If the radio receives a DSC distress call, it sounds a distress tone up to 2 minutes. If the name of the vessel sending the distress call is programmed into the radio, the vessel's name appears. Otherwise, the vessel's MMSI, position, time, and the nature of their distress appear.

The Radio Menu Settings for DSC Call and Fog Horn

To enter settings for *DSC CALL* and *FOG HORN* options, press **MENU/HELP** while the radio is tuned to a frequency. A *RADIO MENU* screen appears listing *DSC CALL*, *FOG HORN* and *EXIT*.

Rotate **PUSH/SELECT** to highlight the desired item, then press **PUSH/SELECT** to select it. Unless you have no Fog Horn connected, you see several optional setting that you can make for each item. Without a Fog Horn connected, you see *HORN IS NOT CONNECTED*. To return to the previous menu, press **MENU/HELP**. To exit, rotate **PUSH/SELECT** to select *EXIT* then press **PUSH/SELECT.** The following chart shows the radio menu options with a Fog Horn connected.

DSC CALL - Lets you select and work with DSC Call options. See “Using the DSC Call Menu”.



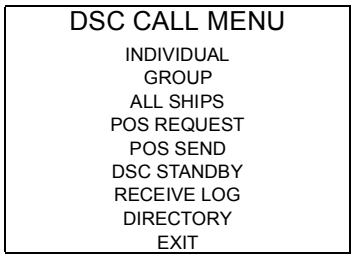
- *FOG HORN* - Lets you select and work with fog horn options. See “Setting the Fog Horn Options” on Page 31.

Using the DSC Call Menu

The radio's DSC Call feature lets you transmit and receive DSC Calls based on ITU-R M.493-11. For a detailed discussion, see **http://www.gmdss.com.au/ITU%20DSC%20tech%20spec.pdf** on line. The radio supports the following DSC calls.

To select the DSC Call menu, press **MENU/HELP** then rotate **PUSH/SELECT** to select *DSC CALL*. Then press **PUSH/SELECT** to select it.

The following choices appear:



Using DSC Individual Call

DSC individual call lets you transmit DSC calls to an individual station. You can also receive DSC calls from other stations.The radio automatically sets itself to high power when it sends a DSC individual call.

1. Rotate **PUSH/SELECT** to select *INDIVIDUAL*, then press **PUSH/SELECT** to select the station. A screen showing the stations saved in the directory appears.
2. Follow one of these steps to select the station where you want to send a DSC call.

a. To select a station by vessel name, rotate **PUSH/SELECT** until the name of the station you want to talk to is highlighted, then press **PUSH/SELECT** to select it.

b. To select a station by its user MMSI, rotate **PUSH/SELECT** until *MANUAL* is highlighted, then press **PUSH/SELECT** to select it. A screen appears you can use to enter the user MMSI. After you enter the user MMSI, press **PUSH/SELECT**.

3. To send a DSC call to the station you selected, using *MANUAL* mode rotate **PUSH/SELECT** to select *SEND*, then press **PUSH/SELECT** to select it. **DSC** appears and the radio transmits the DSC call.
   Otherwise, to cancel the transmission, rotate **PUSH/SELECT** to select *CANCEL*, then press **PUSH/SELECT** to select it.
4. When you receive an acknowledgement from the station you called and the station is staffed, the radio sounds a tone and the receiving station name or user MMSI, *COMPLETED*, and the channel number appear.

   Otherwise, if you receive an acknowledgement from the station you called and the station is unattended, the radio sounds a tone and the receiving station name or user MMSI, *UNATTENDED*, and the channel number appear. Press any key to turn off the tone.
5. If you receive a DSC call from another radio, the radio sounds a tone.

   a. To reply with an individual acknowledgement, rotate **PUSH/SELECT** until *REPLY* is highlighted, then press **PUSH/SELECT** to select it.

   b. If the radio is in its standby mode, the radio automatically sends an individual acknowledgement. Depending on the calling radio's capabilities, your radio's station name or user MMSI, category code, *INDIVIDUAL*, and the channel number might appear on the display of the calling radio.

Note: If a DSC call includes channel information and the automatic channel switch feature is turned on, the radio automatically changes the channel.

Using DSC Group Call

DSC group call lets you transmit a DSC call to a group of stations with the same group MMSI. You can also receive DSC group calls from other stations.

Note: You must set a group MMSI before you can use a DSC group call. See "Setting Up a Group MMSI" on Page 39 for more information.

- Rotate **PUSH/SELECT** to select *GROUP*, then press **PUSH/SELECT** to select it.
- If you receive a DSC group call from another radio, the radio sounds a tone.

Using DSC ALL SHIPS Call

DSC ALL SHIPS call lets you transmit DSC Calls to all ships. You can also receive DSC ALL SHIPS calls from other stations. DSC ALL SHIPS calls consist of URGENCY and SAFETY calls.

Note: The radio automatically sets itself to high power when it sends a DSC ALL SHIPS call.

1. Rotate **PUSH/SELECT** to select *ALL SHIPS*, then press **PUSH/SELECT** to select it.

2. To select the type of DSC ALL SHIPS call you want to send, rotate **PUSH/SELECT** until *URGENCY* or *SAFETY* is highlighted, then press **PUSH/SELECT** to send the DSC call.

After the radio sends the DSC ALL SHIPS call, it automatically tunes to emergency Channel 16.

If the radio receives an ALL SHIPS call, the radio sounds a tone. Both radios tune to Channel 16 for transmissions and replies.

Using DSC Position Request Call

DSC position request call lets you request the position of another vessel, then saves that position information. The radio automatically sets itself to high power when it sends a DSC position request call.

1. Rotate **PUSH/SELECT** to select *POS REQUEST*, then press **PUSH/SELECT** to select it. A screen showing the stations saved in the radio's directory appears.
2. Follow one of these steps to select the station where you want to send a position request call.

   a. To select a station by vessel name, rotate **PUSH/SELECT** until the name of the station is highlighted, then press **PUSH/SELECT** to select the station.

   b. To select a station manually, rotate **PUSH/SELECT** until *MANUAL* is highlighted, then press **PUSH/SELECT** to select the station. A screen appears you can use to enter the user MMSI. After you enter the user MMSI, press **PUSH/SELECT**. A screen appears where you can confirm or cancel sending a position request.

3. In *MANUAL* mode only, to send the position request call you selected, rotate **PUSH/SELECT** to select *SEND*, then press **PUSH/SELECT** to select that operation. The radio transmits the position request call.
   Otherwise, to cancel the transmission, rotate **PUSH/SELECT** to select *CANCEL*, then press **PUSH/SELECT** to enable cancel.
4. To reply to a position request call, rotate **PUSH/SELECT** to select *REPLY*, then press **PUSH/SELECT** to select the action. The radio transmits the position request call.

   Otherwise, to set the radio so it does not reply to the position request call, rotate **PUSH/SELECT** to select *CANCEL*, then press **PUSH/SELECT** to select cancel.

Using Position Send Call

DSC position send call lets you send your position to another vessel. The radio automatically sets itself to high power when it sends a DSC position send call.

1. Rotate **PUSH/SELECT** to select *POS.SEND*, then press **PUSH/SELECT** to select the action.
2. Follow one of these steps to select the station where you want to send your position.

   a. To select a station by vessel name, rotate **PUSH/SELECT** until the name of the station is highlighted, then press **PUSH/SELECT** to select it.

   b. To select a station manually, rotate **PUSH/SELECT** until *MANUAL* is highlighted, then press **PUSH/SELECT** to select it.

A screen appears you can use to enter the station's user MMSI. After you enter the user MMSI, press **PUSH/SELECT**. A screen appears where you can confirm or cancel sending a position.

3. To send your position using *MANUAL* mode, rotate **PUSH/SELECT** to select *SEND*, then press **PUSH/SELECT** to select send. The radio transmits your position.

   Otherwise, to cancel the transmission, rotate **PUSH/SELECT** to select *CANCEL*, then press **PUSH/SELECT** to select cancel.

Using DSC Standby Call

DSC standby call lets you place the radio in its unattended mode. Use this feature if the radio will be unattended and no one will answer any calls. If another station calls the radio, it automatically replies that it is unattended.

Rotate **PUSH/SELECT** to select *DSC STANDBY*, then press **PUSH/SELECT** to select that option.

Press any key to turn off DSC standby call. Note: From the XTRACK menu a DSC call displays a choice screen — to accept the call or return to your radio channel.

Using the DSC Receive Log

The radio saves a list of up to 100 received calls and 20 distress calls. The DSC receive log lets you view those calls.

Receive log entries contain the following information.

Type of Call	**Information Displayed**
Distress	MMSI (or name), position, time, nature code
Distress Ack	MMSI (or name), distress MMSI, position, time, nature code
Individual	MMSI (or name), category code
Individual Ack	MMSI (or name), *COMPLETED* or *UNATTENDED*, category code
Group	MMSI (or name), category code
All Ships	MMSI (or name), category code
Pos Request	MMSI (or name), category code
Pos Reply	MMSI (or name), position, time, category code
Pos Send	MMSI (or name), position, time, category code
Geographical	MMSI (or name), category code
Distress Relay	MMSI (or name), distress MMSI, position, time, nature code
Distress Relay Ack	MMSI (or name), distress MMSI, position, time, nature code

1. Rotate **PUSH/SELECT** to select *RECEIVE LOG*, then press **PUSH/SELECT** to select the action.

   The radio places the latest received call at the top of the screen. Information including detailed call information and the date and time it was received appear. If there are any unviewed calls listed, the screen displays them in red letters until you view them.

2. To view the receive log menu and clear any unviewed calls, press **PUSH/SELECT**.

3. To recall individual calls for a specific vessel, move the cursor to **SEND**, then press **PUSH/SELECT**.

Setting DSC Call Options

Setting the DSC Call Directory

This option lets you enter the name and MMSI number of up to 100 other vessels into the radio, work with existing entries in the directory, and delete directory entries. This makes it easy to quickly recall and save information about these vessels.

1. While set to a radio channel, press **MENU/HELP**. The screen changes to let you modify settings for *DCS CALL* and *FOG HORN*. Rotate **PUSH/SELECT** to highlight *DSC CALL* and press the knob to select it.
2. Rotate **PUSH/SELECT** to select *DIRECTORY*, then press.**PUSH/SELECT** to select it.
3. A screen showing any vessels previously entered in the directory and *NEW* appears.
4. To edit an existing directory entry, see “Editing a Directory Entry”. To enter a new directory entry, see “Entering a New Directory Entry” on Page 30. To delete a directory entry, see “Deleting a Directory Entry” on Page 31.

Editing a Directory Entry

To edit a directory entry, select the entry, rotate **PUSH/SELECT** to select *EDIT*, then press **PUSH/SELECT** to select it. A screen appears where you can edit the vessel’s information.

Entering a New Directory Entry

1. Rotate **PUSH/SELECT** to select *NEW*, then press **PUSH/SELECT** to select it. A screen appears where you can enter the vessel’s information. The cursor moves to the first digit of the vessel’s MMSI.
2. Rotate **PUSH/SELECT** clockwise to increase the displayed digit or counterclockwise to decrease it. When the MMSI digit you want appears, press **PUSH/SELECT** to select it. The cursor moves to the next digit.
3. Repeat Step 2 for each of the MMSI’s digits. When you have entered all of the MMSI’s digits, the cursor moves to the first character of the vessel’s name.
4. You can enter a vessel name up to 12 characters in length. Rotate **PUSH/SELECT** clockwise to move forward through the displayed characters or counterclockwise to move backward. When the character you want appears, press **PUSH/SELECT** to select it. The cursor moves to the next character.
5. Repeat Step 4 for each of the vessel name’s characters. When you have entered all of the vessel name’s characters, a confirmation screen appears.
6. If the MMSI and vessel name you set appears correctly, rotate **PUSH/SELECT** to select *YES*. The radio saves the MMSI and vessel name you input. Otherwise, rotate **PUSH/SELECT** to select *NO*.

Deleting a Directory Entry

1. Select the entry you want to delete, rotate **PUSH/SELECT** to select *DELETE*, then press **PUSH/SELECT** to select it. A screen appears where you can delete the vessel's information.
2. To delete the displayed directory entry, rotate **PUSH/SELECT** to select *YES*, then press **PUSH/SELECT** to confirm it. The directory entry is deleted.

   Otherwise, If the displayed directory entry is not the one you want to delete, rotate **PUSH/SELECT** to select *NO*, then press **PUSH/SELECT** to confirm it. The directory entry is not deleted.

Setting the Fog Horn Options

The radio's fog horn feature lets you set up the radio so it sounds the correct fog horn for any condition.

Notes:

- You must connect one or two optional hailers to the radio to use the fog horn feature.
- You must connect an optional GPS module to the radio to select the AUTOMATIC fog horn selection. See "Selecting a Fog Horn Sound" for more information.

To select the fog horn menu, rotate **PUSH/SELECT** to select *FOG HORN*, then press **PUSH/SELECT** to select it.

Selecting a Fog Horn Sound

This option lets you select the type of fog horn you want the radio to sound.

1. Rotate **PUSH/SELECT** to select *FOG HORN*, then press **PUSH/SELECT** to select it. A screen showing the fog horn sounds appears. If the fog horn is not connected, *FOG HORN NOT CONNECTED* appears.
2. Rotate **PUSH/SELECT** until the fog horn sound you want to select appears, then press **PUSH/SELECT** to select that sound. The name of the selected fog horn sound appears. You can select any of the following fog horn sounds

   Notes:

- If you select any fog horn sound other than *AT UNDERWAY, AT UNDERTOW*, *MANUAL*, or *YELP*, the sound you selected sounds every 2 minutes until you turn it off. If you select the *ANCHOR or AGROUND* fog horn sound, the radio sounds the appropriate fog horn pattern once per minute.
- If you select the *AT UNDERWAY or AT UNDERTOW* fog horn sound, the radio sounds the appropriate fog horn pattern (*UNDERWAY*, *STOP*, or *SAIL*) depending on the information provided to it by a connected optional GPS module, the vessel type setting you set in "Setting the Vessel Type" on Page 35, and whether you are moving or stopped.

Status	Vessel Type Power Boat	Sail Boat	Tow Boat
Moving	UNDERWAY	SAIL	UNDERWAY
Stopping	STOP (default), ANCHORED, or AGROUND	STOP (default), ANCHORED, or AGROUND	STOP (default), ANCHORED, or AGROUND

Fog Horn Sound	Automatic Mode – Explanation
AT UNDERWAY	Uses Information from a connected GPS module to automatically sound the correct horn audio for current conditions.
AT UNDERTOW	Uses Information from a connected GPS module to automatically sound the correct horn audio for current conditions.
STOPPED	Uses Information from a connected GPS module to automatically sound the correct horn audio for current conditions.

Fog Horn Sound	Manual Mode – Explanation
AT UNDERWAY	Sounds the fog horn for power boat underway.
AT UNDERTOW	Sounds the fog horn for passing.
STOPPED	Sounds the fog horn signal for a stationary (stopped) vessel.
SAIL	Sounds the fog horn signal for a sailboat, fishing boat, or towboat.
TOW	Sounds the fog horn signal for a vessel under tow.
ANCHOR	Sounds the fog horn signal for a vessel at anchor.
AGROUND	Sounds the fog horn signal for any vessel that has run aground.
YELP	Sounds a “yelp-type” signal similar to that used by police, Fish & Wildlife, and US Coast Guard vessels.

- This table shows the type of underway fog horn pattern you hear, depending on your status.
- The radio sounds the fog horn every 2 minutes until you turn it off.

  If you select the YELP fog horn sound, the radio sounds a yelp tone only when you press **PTT** on the microphone.

3. To turn off the fog horn, press **MENU/HELP**.

Setting the Fog Horn Volume

This option lets you adjust the fog horn’s volume.

1. Rotate **PUSH/SELECT** to select *VOLUME*. A screen showing the volume levels appears.
2. Rotate **PUSH/SELECT** clockwise to increase the volume or counterclockwise to decrease it.

The Setup Screen Options

This chart shows the radio's Setup Screen options if a WHAM base is not connected.

THE SETUP SCREEN SUB MENU

INITIALIZE	*RADIO*	*XTRACK BEEP*	*WHAM x 4*	*HAILER RENAME*	*SCRAMBLE*	*WHAM PAGE*
USER MMSI		ON	BASE ID	ZONE 1		WHAM 1
VESSEL TYPE	CHANNEL NAME	OFF	BASE/SUB	ZONE 2		WHAM 2
FOG FREQUENCY	FIPS		CHANGE LINK	EXIT		WHAM 3
BACKLIGHT	AUTO CH SW		RENAME			WHAM 4
KEYBEEP LEVEL	POS REPLY		ANTENNA SEL			EXIT
COLOR PALLET	GROUP MMSI		EXIT			
TIME ADJUST	CHANNEL SCAN					
TIME ENTRY	RX SENS					
POS ENTRY	DISP TIME/POS					
DAYLIGHT SAVE	EXIT					
UNITS						
UIC WATERS						
EXIT						

This chart shows the radio's menu options if a WHAM base is connected.

THE SETUP SCREEN SUB MENU

INITIALIZE	*RADIO*	*XTRACK BEEP*	*WHAM*	*HAILER RENAME*	*SCRAMBLE*
USER MMSI		ON	BASE ID	ZONE 1	
VESSEL TYPE	CHANNEL NAME	OFF	LINK CH	ZONE 2	
FOG FREQUENCY	FIPS		EXIT	EXIT	
BACKLIGHT	AUTO CH SW				
KEY BEEP LEVEL	POS REPLY				
COLOR PALLET	GROUP MMSI				
TIME ADJUST	CHANNEL SCAN				
TIME ENTRY	RX SENS				
POS ENTRY	DISP TIME/POS				
DAYLIGHT SAVE	EXIT				
UNITS					
UIC WATERS					
EXIT					

- *INITIALIZE* - Lets you set up the radio. See Using the Initialize Sub menu.
- *RADIO* - Lets you select and work with additional radio settings. See Using the Radio Sub Menu on Page 37.
- *XTRACK BEEP* - Lets you set up the radio's crosstrack beep function. See "Setting the XTRACK Beep Options" on Page 40.
- *WHAM x 4* - Lets you select and work with WHAM x 4 options. See "Using the WHAM and WHAM x 4 Sub Menus" on Page 41.
- *HAILER RENAME - Lets you assign a name to each hailer for identification.*
- *DSC CALL - Accessible using MENU/HELP from RADIO MENU*

- *WHAM* - Lets you select and work with WHAM options. See “Using the WHAM and WHAM x 4 Sub Menus” on Page 41.
- *SCRAMBLE* - Lets you select and work with scrambler options. See “Using the Hailer Rename Option” on Page 43.
- *WHAM PAGE* - Lets you select and work with WHAM page options. See “Using the WHAM Page Sub Menu” on Page 43.

Using the Initialize Sub Menu

The radio's initialize menu lets you set up the radio’s options and parameters. To set these parameters, press and release **PUSH/SELECT** then rotate the knob to **SETUP** and push to select it. Rotate the knob to *INITIALIZE*, then press **PUSH/SELECT** to select it.

Setting Up a User MMSI

When you first turn on the radio or select this option, you must program a user MMSI. A user MMSI is 9 digits in length.

> **Important**: If you have already set the user MMSI, **DO NOT CHANGE IT** unless you have received a new user MMSI. After you program a user MMSI for the first time, you can only change it once more. If you try to change the user MMSI a third time, the radio will not accept the change. To change the user MMSI again, you must return the radio to Uniden for reprogramming.

3. Quickly press and release **PUSH/SELECT**. A screen appears containing options you can select to work with the radio's features.
4. Rotate **PUSH/SELECT** to select *SETUP*, then press **PUSH/SELECT** to select it.
5. Press **PUSH/SELECT** to select *INITIALIZE*.
6. Rotate **PUSH/SELECT** to select *USER MMSI*, then press **PUSH/SELECT** to select it.
7. If a user MMSI has already been programmed once or twice, it appears on the screen. **Stop here**.
8. Otherwise, if a user MMSI has not been programmed, the first digit of the blank user MMSI is reversed in black and white..
9. To enter the first digit of the user MMSI, rotate **PUSH/SELECT** until the digit appears, then press **PUSH/SELECT**. The digit you entered appears on the display and the reversed black and white cursor moves to the next position.
10. Repeat Step 9 for each of the user MMSI's digits.
11. If the displayed user MMSI is correct, rotate **PUSH/SELECT** to select *YES*, then press **PUSH/SELECT** to confirm it. The setup menu appears.
12. Otherwise, If the displayed user MMSI is not correct, rotate **PUSH/SELECT** to select *NO*, then press **PUSH/SELECT** to confirm it. Then repeat Steps 6 through 11 to enter the correct user MMSI.

Setting the Vessel Type

This option lets you select whether your vessel is a motor vessel, sailing vessel, or tow boat. This lets you select the correct fog horn settings for your particular vessel.

1. Rotate **PUSH/SELECT** to select *VESSEL TYPE*, then press **PUSH/SELECT** to select it.
2. Rotate **PUSH/SELECT** to select *POWER BOAT* or *SAIL BOAT* or *TOW BOAT*. When you have made the selection you want, press **PUSH/SELECT** to select it.

Setting the Fog Horn Frequency

This option lets you adjust the frequency of the fog horn that sounds when the fog horn mode is set to *MANUAL*, *UNDERWAY*, *STOP*, *SAIL*, or *UNDERTOW*. You can set the frequency between 200 Hz and 850 Hz in 50 Hz increments.

1. Rotate **PUSH/SELECT** to select *FREQUENCY*, then press **PUSH/SELECT** to choose it. A screen showing the fog horn frequency levels appears.
2. Rotate **PUSH/SELECT** clockwise to increase the frequency or counterclockwise to decrease it. When you have set the desired frequency, press **PUSH/SELECT** to enable it. A confirmation screen appears.

Adjusting the Backlight

1. Rotate **PUSH/SELECT** to select *BACKLIGHT*, then press **PUSH/SELECT** to enable it. A screen showing the brightness levels appears.
2. Rotate **PUSH/SELECT** to select the brightness level you want. When you have set the desired brightness level, press **PUSH/SELECT** to enable it.

Adjusting the Key Beep

1. Rotate **PUSH/SELECT** to select *KEYBEEP LEVEL*, then press **PUSH/SELECT** to select it.
   A screen showing the key beep volume level appears.
2. Rotate **PUSH/SELECT** clockwise to increase the volume or counterclockwise to decrease the volume. When you have set the desired volume level, press **PUSH/SELECT** to enable it.

Adjusting the Color Pallet

This option lets you adjust the display so it displays the best combination of colors for either day or night use.

Rotate **PUSH/SELECT** to select *AUTO*, *DAY COLOR*, or *NIGHT COLOR*. When you have set the desired color pallet option, press **PUSH/SELECT** to enable it. In *AUTO* the screen dims in a short period of time as well as changing its color pallet.

Setting the Local Time - Time Adjust and Time Entry

If you connect an optional GPS module to the radio, the radio automatically sets the local time. Follow these steps to manually enter the local time.

1. Rotate **PUSH/SELECT** to select *TIME ADJUST*, then press **PUSH/SELECT** to select it. A menu screen appears to let you select *AUTO* or *MANUAL*. In *AUTO* the radio checks the current time zone and adjusts the local time automatically. If you select *MANUAL*, you can fine tune the local time from the GPS plus or minus one hour.
2. Rotate **PUSH/SELECT** clockwise to set the time forward or counterclockwise to set it backward. When the desired time appears, press **PUSH/SELECT** to select it.
3. If no GPS is attached, rotate **PUSH/SELECT** to *TIME ENTRY*. Press to select it. If the local UTC time appears correctly, rotate **PUSH/SELECT** to select *YES*. The radio sets the local UTC time to the time you set. Otherwise, rotate **PUSH/SELECT** to select *NO* and re-enter the correct UTC time.

Setting the Position

To manually set (no GPS connected) the radio's position, rotate **PUSH/SELECT to** *POS ENTRY* and select it**.** Enter your latitude and longitude.

Notes:

- To save the UTC time as well as the latitude, and longitude you entered, at the completion of your entry, select *YES* to keep your entry or *NO* to discard them.
- When you set the time in this mode, be sure to set it to the current UTC time, not local time.
- If the radio does not receive valid GPS data for at least 4 hours, it sounds a tone and *PLEASE INPUT UTC TIME AND POSITION* appears. Refer to the start of this section for setting the position manually and the section above that for manual time setting.

Setting Daylight Saving Time

1. Rotate **PUSH/SELECT** to select *DAYLIGHT SAVE*, then press **PUSH/SELECT** to select it. *DAYLIGHT SAVE* and a confirmation screen appear.
2. To set the radio to daylight saving time, rotate **PUSH/SELECT** to select *ON.* The radio adjusts the displayed time for Daylight Saving Time. Otherwise, rotate **PUSH/SELECT** to select *OFF*.

Setting Units

This option lets you adjust the displayed bearing and distance/speed units .

1. Rotate **PUSH/SELECT** to select *UNITS*, then press **PUSH/SELECT** to select it. A screen showing the unit options appears.
2. To set the unit for bearing, select *BEARING*. Otherwise, to set the unit for distance/speed, select *DIST/SPEED*.
3. Rotate **PUSH/SELECT** clockwise to set the desired unit, then press **PUSH/SELECT** to select it.

Setting UIC Waters Option

With a GPS connected and operating, the radio automatically alerts you by means of a pop-up screen that states you are entering another area's waters if the UIC is currently set to a location but the vessel is actually in another's territorial waters. For example, the radio alerts you if the UIC is set to USA but the vessel is actually in Canadian waters. No tone sounds during the alert.

Rotate **PUSH/SELECT** to *UIC WATERS*. Press to select it. A *12 MILES* or *200 MILES* option is displayed. Make your selection based on your vessel location plan. Press **PUSH/SELECT** to confirm your choice.

Using Channel Mode

Hold down **MEM/UIC** for about 2 seconds to sequentially change the radio mode from USA to INTERNATIONAL to CANADIAN. **USA**, **INT**, or **CAN** appears on the display.

Notes:

- The radio saves the current channel mode setting when you turn it off then turn it back on.
- Scan mode, WX mode, and Coast Guard/Distress/Hailing mode are cancelled when you hold down **MEM/UIC** for about 2 seconds.

Using the Radio Sub Menu

Channel Name Settings

This option lets you assign a name to marine channels. This makes it easy to quickly select and work with these channels. You cannot edit weather channel names.

Note: You cannot use a WHAM wireless microphone to use channel names on the radio.

Rotate **PUSH/SELECT** to select *CHANNEL NAME*, then press **PUSH/SELECT** to select it. A screen appears showing the current channel names.

To edit a channel name, see "Editing a Channel Name" below. To set a channel name to its default name, see "Setting a Channel Name to its Default Name" on Page 38.

Editing a Channel Name

1. Rotate **PUSH/SELECT** to select the channel name you want to edit, then press **PUSH/SELECT** to select it. A screen appears that lets you select what action you want to take.
2. Rotate **PUSH/SELECT** to select *EDIT*, then press **PUSH/SELECT** to select it. The cursor moves to the first character of the channel name.
3. You can enter a channel name up to 12 characters in length. Rotate **PUSH/SELECT** clockwise to move forward through the displayed characters or counterclockwise to move backward. When the character you want appears, press **PUSH/SELECT** to select it. The cursor moves to the next character.

4. Repeat Step 3 for each of the channel name's characters. When you have entered all of the channel name's characters, hold down **PUSH/SELECT**. When you have entered all of the channel name's characters, a confirmation screen appears.
5. If the channel name you set appears correctly, rotate **PUSH/SELECT** to select *YES*. The radio saves the channel name you input. Otherwise, rotate **PUSH/SELECT** to select *NO*.

Setting a Channel Name to its Default Name

1. Rotate **PUSH/SELECT** to select the channel name you want to edit, then press **PUSH/SELECT** to select it. A screen appears where you can select what action you want to take.
2. Rotate **PUSH/SELECT** to select *DEFAULT*, then press **PUSH/SELECT** to select it. A confirmation screen appears.
3. If the channel name appears correctly, rotate **PUSH/SELECT** to select *YES*. The radio saves the channel name. Otherwise, rotate **PUSH/SELECT** to select *NO*.

Setting FIPS Codes

This option lets you add FIPS codes that activate the radio's SAME weather alert system. You can program up to 30 FIPS codes into the radio.

Rotate **PUSH/SELECT** to select *FIPS*, then press **PUSH/SELECT** to select it. *FIPS* and a list of the current FIPS codes appears.

To enter a new FIPS code, see "Entering a New FIPS Code". To edit a FIPS code, see "Editing a FIPS Code". To delete a FIPS code, see "Deleting a FIPS Code".

Entering a New FIPS Code

1. Rotate **PUSH/SELECT** to select *NEW*, then press **PUSH/SELECT** to select it. The cursor moves to the first character of the FIPS code.
2. Rotate **PUSH/SELECT** clockwise to move forward through the displayed numbers or counterclockwise to move backward. When the number you want appears, press **PUSH/SELECT** to select it. The cursor moves to the next number.
3. Repeat Step 2 for each of the FIPS code's characters. When you have entered all of the FIPS code's numbers, hold down **PUSH/SELECT**. A confirmation screen appears.
4. If the FIPS code you set appears correctly, rotate **PUSH/SELECT** to select *YES*. The radio saves the FIPS code you input. Otherwise, rotate **PUSH/SELECT** to select *NO*.

Editing a FIPS Code

1. Rotate **PUSH/SELECT** to select the FIPS code you want to edit, then press **PUSH/SELECT** to select it. A screen appears that lets you select your desired action.
2. Rotate **PUSH/SELECT** to select *EDIT*, then press **PUSH/SELECT** to select it. The cursor moves to the first character of the FIPS code.
3. Rotate **PUSH/SELECT** clockwise to move forward through the displayed numbers or counterclockwise to move backward. When the number you want appears, press **PUSH/SELECT** to select it. The cursor moves to the next number.

4. Repeat Step 3 for each of the FIPS code's numbers. When you have entered all of the FIPS code numbers, hold down **PUSH/SELECT**. A confirmation screen appears.
5. If the FIPS code you set appears correctly, rotate **PUSH/SELECT** to select *YES.* The radio saves the FIPS code you input. Otherwise, rotate **PUSH/SELECT** to select *NO*.

Deleting a FIPS Code

1. Rotate **PUSH/SELECT** to select *DELETE*, then press **PUSH/SELECT** to select it. A screen appears where you can delete the FIPS code.
2. If you want to delete the displayed FIPS code, rotate **PUSH/SELECT** to select *YES*, then press **PUSH/SELECT** to confirm it. The FIPS code is deleted.

   Otherwise, If the displayed FIPS code is not the one you want to delete, rotate **PUSH/SELECT** to select *NO*, then press **PUSH/SELECT** to confirm it. The FIPS code is not deleted.

Disabling Auto Channel Switch

This option lets you set the radio so it does not automatically change the channel when it receives a DSC call. If the radio receives an individual call when Auto Channel Switch is turned off, the radio replies *UNATTENDED* to the calling radio and does not tune to the channel requested by the calling radio.

1. Rotate **PUSH/SELECT** to select *AUTO CH SW*, then press **PUSH/SELECT** to select it. *AUTO CH SW* and *ON* and *OFF* appear.
2. To turn off auto channel switch, rotate **PUSH/SELECT** to select *OFF*, then press **PUSH/SELECT** to confirm it. Auto channel switch is turned off. To turn on auto channel switch, rotate **PUSH/SELECT** to select *ON*, then press **PUSH/SELECT** to confirm it. Auto channel switch is turned on.

Position Reply

This option lets you set the radio so you can transmit an acknowledgement automatically or manually when it receives a Position Request Call.

1. Rotate **PUSH/SELECT** to select *POS REPLY*, then press **PUSH/SELECT** to select it. *AUTO* and *MANUAL* appear.
2. To set the radio to transmit an acknowledgement automatically, rotate **PUSH/SELECT** to select *AUTO*, then press **PUSH/SELECT** to confirm it. Otherwise, rotate **PUSH/SELECT** to select *MANUAL*, then press **PUSH/SELECT** to confirm it.

Setting Up a Group MMSI

You can program a group MMSI. A group MMSI is 9 digits in length.

1. Rotate **PUSH/SELECT** to select *GROUP MMSI*, then press **PUSH/SELECT** to select it.
2. To enter the first digit of the group MMSI, rotate **PUSH/SELECT** until the digit appears, then press **PUSH/SELECT**. The digit you entered appears and the cursor moves to the next position.

3. Repeat Step 2 for each of the group MMSI's digits. When you have entered each of the group MMSI's digits, a confirmation screen appears.
4. If the displayed group MMSI is correct, rotate **PUSH/SELECT** to select *YES*, then press **PUSH/SELECT** to confirm it. Otherwise, If the displayed group MMSI is not correct, rotate **PUSH/SELECT** to select NO, then press **PUSH/SELECT** to confirm it. Then repeat Steps 2 and 3 to enter the correct group MMSI.

Setting Channel Scan

You can set the radio so it scans channel you stored in the radio's memory or all of the radio's channels.

1. Rotate **PUSH/SELECT** to select *CHANNEL SCAN*, then press **PUSH/SELECT** to select it.
2. To set the radio to scan channels you saved in the memory, rotate **PUSH/SELECT** to select *MEMORY CHAN*, then press **PUSH/SELECT** to confirm it. Otherwise, rotate **PUSH/SELECT** to select *ALL CHAN*, then press **PUSH/SELECT** to confirm it.

Setting RX Sensitivity

1. Rotate **PUSH/SELECT** to select *RX SENS*, then press **PUSH/SELECT** to select it.
2. To set the radio to receive distant stations, rotate **PUSH/SELECT** to select *DISTANT*, then press **PUSH/SELECT** to confirm it. Otherwise, to set the radio to receive nearby stations, rotate **PUSH/SELECT** to select *LOCAL*, then press **PUSH/SELECT** to confirm it.

Displaying Time and Position

You can adjust the way the radio displays information. You can set it so it displays information by channel name, local time, or position.

1. Rotate **PUSH/SELECT** to select *DISP TIME/POS*, then press **PUSH/SELECT** to select it.
2. To set the radio to display channel name, rotate **PUSH/SELECT** to select *CHANNEL NAME*, then press **PUSH/SELECT** to confirm it. Otherwise, to set the radio to display local time, rotate **PUSH/SELECT** to select *LOCAL TIME*, then press **PUSH/SELECT** to confirm it. Otherwise, to set the radio to display position, rotate **PUSH/SELECT** to select *POSITION*, then press **PUSH/SELECT** to confirm it.

Setting the XTRACK Beep Options

You can set the XTRACK feature to sound a tone when you are off course based on your input GPS data. From the **SETUP** screen, rotate **PUSH/SELECT** until *XTRACK* is highlighted and press the knob. Highlight either *ON* or *OFF* and push to select it.

Using the WHAM and WHAM x 4 Sub Menus

(Wireless Handheld Access Microphone)

This option lets you set up a WHAM (900MHz — up to 2 mics) or WHAM x 4 (2.4GHz — up to 4 mics) wireless microphone to operate with the radio. You must first set up a WHAM or WHAM x 4 microphone before it will work with the radio.

Note:

Refer to your WHAM or WHAM x 4 microphone's owners manual for more information about connecting it to the radio.

WHAM units use a control or base unit, external to the radio. WHAM x 4 do not.

A sub unit is another radio on board.

Rotate **PUSH/SELECT** to select *WHAM x 4* or *WHAM*, then press **PUSH/SELECT** to select it. If you have already connected a WHAM control (base) unit to the radio, *BASE ID* and *LINK CH* appear. Wen you connect a WHAM unit, a mic icon appears in the lower left of the channel display screen. If you have not connected a WHAM base unit to the radio, *BASE ID*, *BASE/SUB*, *CHANGE LINK*, and *RENAME* appear.

To set up a WHAM x 4 Base ID, see "Setting a WHAM x 4 Base ID" on Page 41. To set up a WHAM x 4 base/sub, see "Setting the WHAM x 4 Sub Radio Mode" on Page 41. To set up a WHAM Base ID, see "Setting a WHAM Base ID". To set up a WHAM link channel, see "Changing the Radio Link Channel for a WHAM x 4" on Page 42.

Setting a WHAM x 4 Base ID

The base ID between the radio and the WHAM x 4 microphone you are installing must be the same.

1. Rotate **PUSH/SELECT** to select *BASE ID*, then press **PUSH/SELECT** to select it. *BASE ID* and a channel number appear.
2. Rotate **PUSH/SELECT** clockwise to move forward through the displayed numbers or counterclockwise to move backward. When the desired number appears, press **PUSH/SELECT** to select it. A confirmation screen appears.
3. If the base ID you set appears correctly, rotate **PUSH/SELECT** to select *YES.* The radio saves the base ID you input. Otherwise, rotate **PUSH/SELECT** to select *NO*.

Setting the WHAM x 4 Sub Radio Mode

You can set up the radio so connected WHAM x 4 microphones can communicate with each other.

1. Rotate **PUSH/SELECT** to select *BASE*/*SUB*, then press **PUSH/SELECT** to select it. *BASE RADIO* and *SUB RADIO* appear.
2. To turn on the sub radio mode, rotate **PUSH/SELECT** to select *SUB RADIO*, then press **PUSH/SELECT** to confirm it. The sub radio mode is turned on.

   Otherwise, to turn off the sub radio mode, rotate **PUSH/SELECT** to select *BASE RADIO*, then press **PUSH/SELECT** to confirm it.

Setting a WHAM Base ID

The WHAM base ID for the radio and the WHAM microphone you are installing must be set to the same number.

1. Rotate **PUSH/SELECT** to select *BASE ID*, then press **PUSH/SELECT** to select it. The cursor moves to the first character of the base ID.
2. Rotate **PUSH/SELECT** clockwise to move forward through the displayed numbers or counter-clockwise to move backward. When the number you want appears, press **PUSH/SELECT** to select it. The cursor moves to the next number.
3. Repeat Step 2 for each of the base ID's numbers. When you have entered all of the base ID's numbers, hold down **PUSH/SELECT**. A confirmation screen appears.
4. If the base ID you set appears correctly, rotate **PUSH/SELECT** to select *YES.* The radio saves the base ID you input. Otherwise, rotate **PUSH/SELECT** to select *NO*.
5. Turn the radio off then turn it back on to enable the set base ID.

Changing the Radio Link Channel for a WHAM x 4

In case of noisy communication, you can chnage the link channel between the radio and the WHAM x 4 microphone you use. This change process is automatic.

1. Rotate **PUSH/SELECT** to select WHAM x 4. Press **PUSH/SELECT.** Scroll to *CHANGE LINK*, then press **PUSH/SELECT** to select it. YES and NO appear.
2. Rotate **PUSH/SELECT** to select either *YES* or *NO* and push the knob to make your choice. The WHAM x 4 menu displays to confirm your selection.

Renaming a WHAM x 4 Unit

1. From the WHAM x 4 Setup Menu, scroll to RENAME using PUSH/SELECT. Press the knob once.
2. Scroll to the unit you want to rename. Press **PUSH/SELECT** to select it.
3. Rotate the **PUSH/SELECT** knob to change a letter of the current name using upper, lower case and numerals in order. when you arrive at the chosen character, press **PUSH/SELECT** to register your selection. Repeat that process until you have changed each character. Press **PUSH/SELECT** to keep the current character.
4. After the final character change you can choose *YES* to keep your changes or *NO* to discard them.

Setting the Antenna

1. Scroll, using **PUSH/SELECT** to reach *ANTENNA SEL*. Push the knob once.
2. Rotate the **PUSH/SELECT** to select either *INTERNAL* or *EXTERNAL* then press to make your selection.

Using the Hailer Rename Option

1. Scroll, using **PUSH/SELECT** to reach *HAILER RENAME*. Push the knob once.
2. Rotate the **PUSH/SELECT** to select a listed name. Push to select it. Rotate the knob to reverse highlight a desired new character. Push to select it. Select *YES* to keep your changes, *NO* to discard them. Push to select. Rotate the knob to *EXIT* then push to exit.

Using the Scrambler Menu

Important: You must install an optional scrambler board in the radio to use the scrambler. See “Using the Scrambler” on Page 23 for more information.

Setting a Scrambler Code

You can set the scrambler code to any of 32 different settings.

1. Rotate **PUSH/SELECT** to select *SCRAMBLE*, then press **PUSH/SELECT** to select it. A screen appears where you can select a scrambler code.
2. Rotate **PUSH/SELECT** until the scrambler code you want (*01-32*) appears, then press **PUSH/SELECT** to select it. A confirmation screen appears.
3. If the displayed scrambler code is correct, rotate **PUSH/SELECT** to choose *YES*, then press **PUSH/SELECT** to confirm it.

If the displayed scrambler code is not correct, rotate **PUSH/SELECT** to select *NO*, then press **PUSH/SELECT** to confirm it. Then repeat Steps 2 and 3 to enter the correct scrambler code.

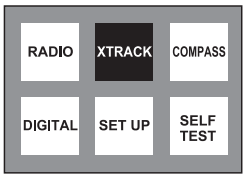
Using the WHAM Page Sub Menu

This option lets you page to help locate a missing WHAM handset.

1. Rotate **PUSH/SELECT** to select *WHAM PAGE*, then press **PUSH/SELECT** to select it. A screen showing the WHAM handsets used with the radio appears.
2. Rotate **PUSH/SELECT** until the WHAM handset you want to find is selected, then press **PUSH/SELECT** to select it. The WHAM handset beeps for 1 minute or until any key is pressed on the handset.

Using the Crosstrack (XTRACK) Screen

To use the Crosstrack Screen, you must have your radio correctly connected to a functioning GPS device that supplies data to the radio. The screen lets you graphically see the deviation of your vessel from a set course. The radio also displays the screen if your vessel is deviating from that course. The screen is key in attending to a distress call. To manualy select the screen, rotate **PUSH/SELECT** to select *XTRACK*, then press **PUSH/SELECT** to select it.



The *XTRACK* screen can be selected under the following circumstances:

Your radio is set to a standard channel. Then you receive a Distress call. Your radio immediately switches to *DISTRESS CALL* received screen.

If a GPS module is either not attached or not providing data to the radio, *NO DATA FROM GPS* appears instead and the radio sounds a tone. The GPS provides the following data for the distress call screen:

- If the vessel sending the distress call is in your directory, the name of the vessel is displayed. Otherwise, the MMSI is shown on the first line.
- The nature of the distress is shown next.
- The latitude and the longitude of the craft is next.
- Finally the date and time the call was received is shown.

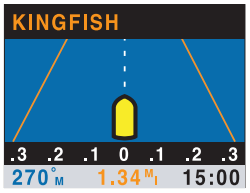
If you wait 2 minutes or press any key at that point you see a *RADIO* and *XTRACK* option at the screen bottom. Rotate the **PUSH/SELECT** knob to choose to return to the radio channel or to switch to the *XTRACK* screen. All data shown is for example only.

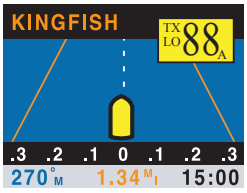
Note:

You can also have the opportunity to select the *XTRACK* screen based on a call in which the calling vessel sends their position. or based on your reply to a Position Request call.

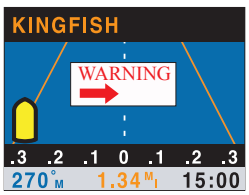
1. After pressing **PUSH/SELECT,** the standard *XTRACK* main screen appears. Your vessel's heading is displayed at the bottom margin.

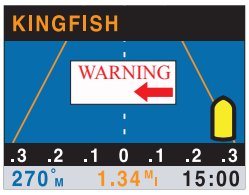
2. To confirm the channel you are tuned to, rotate **PUSH/SELECT.** The screen displays the current channel in the upper right corner.



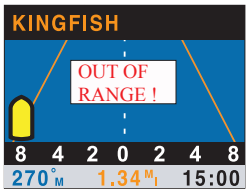


3. If your vessel is off course, the XTRACK screen displays an arrow indicating the direction to steer to resume the correct heading. if you lose GPS data and press the **PTT** switch, the mini-window appears with the radio channel displayed. If instead you rotate the **PUSH/SELECT** knob, you also see the last channel displayed. Pushing the knob returns you to the 6- option screen display.

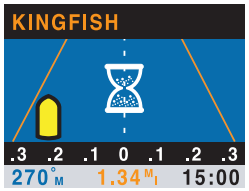




4. If you are so far off course that the XTRACK screen cannot properly indicate the correct action, an *OUT OF RANGE* warning appears.



5. Since your GPS knows where you are and since you have a starting location, the system automatically displays the *NOW ARRIVING* screen when the radio is updated by the GPS with new data and you are less than .02 miles from your destination.

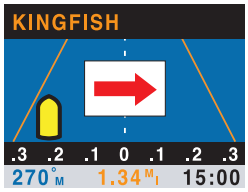


6. During the time that the system is waiting for a complete data update from the GPS, the hour glass appears and the ship icon as well as the margin readings do not change.

Note: If the radio fails to get an update, you see the screen that displays *NO DATA FROM GPS* then the display returns to the initial *XTRACK* screen.

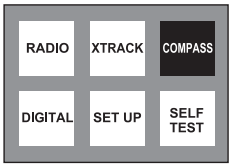
If you press the PTT switch at this time, the display returns to the standard channel display with the GPS icon in the lower left corner.

7. The XTRACK system also displays the angle of difference between your current heading and your destination heading. This angle can be from 67.5° to 292.5° The arrow indicates the direction of the destination based on the angle of the vessel.

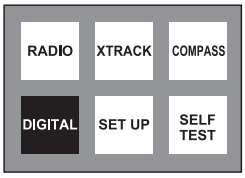


Viewing the Compass Screen

The radio's compass screen lets you view a compass that you can use to navigate your vessel. A correctly connected GPS provides data to the radio which appears on the Compass screen. To view that data, rotate **PUSH/SELECT** to select *COMPASS*, then press **PUSH/SELECT** to select it.



Using the Digital Menu



The radio's digital menu lets you display information about your course including speed, heading, current position, bearing to destination, distance from your vessel to destination, and estimated time enroute.

To set the digital options, rotate **PUSH/SELECT** to select *DIGITAL*, then press **PUSH/SELECT** to select it.

Using the Help Menu

Your radio's built-in help data lets you quickly access information that can assist you to use the radio's features.

To use help, hold down **MENU/HELP** for about 2 seconds. A screen appears listing the available help. Then rotate **PUSH/SELECT** to select the desired help options. Next, press **PUSH/SELECT** to select one.

Care and Maintenance

Your UM625c Marine Radio is a precision electronic instrument and you should treat it accordingly. Due to its rugged design, very little maintenance is required. However, a few precautions should be observed.

- If the antenna has been damaged, you should not transmit except in the case of an emergency. A defective antenna may cause damage to your radio.
- You are responsible for continued FCC technical compliance of your radio.
- You are urged to arrange for periodic performance checks with your Uniden Marine dealer.

Frequently Asked Questions

Q: *The radio will not turn on. What should I do?*

A: Check the battery or power source. Make sure the power source supplies at least 13.8 volts.

Q: *When I press the the microphone's* **PTT** *switch ,* TX *appears on the display and other vessels hear a click, but they cannot hear me speak. What's wrong?*

A: The microphone might have a bad element. Contact your Uniden marine dealer for more information.

Q: *The radio always stops on one particular channel even though I didn't select it. Why?*

A: There might be a source of noise near that channel's frequency. Choose another frequency.

Q: *The radio is receiving noise on a channel and I cannot eliminate it using the squelch. What's wrong?*

A: An external source might be generating noise on that frequency. Turn off the offending device or choose another frequency.

Specifications

General

Channels All USA, Canadian and International Marine Channels

Channel Display 2.2 inch color LCD with white backlight

Dimensions (HWD) 4.4 x 6.6 x 5.2 in.(110 x 165 x 131.2 mm)

Weight 45.88 oz (1.3 kg)

Supply Voltage 11 ~ 16 VDC negative ground

Standard Accessories Mounting bracket and hardware, DC power cord, microphone hanger, spare fuse, GPS external cable, EXT SP (External Speaker) external cable, hailer cable

VHF Antenna Impedance 50 Ω nominal

Microphone 2 kΩ condenser mic element with coiled cord

Speakers

INT SP (internal) 45 mm diameter, 8 Ω
MIC SP (microphone) 36 mm diameter, 8 Ω

Operating Temperature -4° to 122° F (-20° to 50 °C)

Shock and Vibration Meets or exceeds EIA standards, RS152B and RS204C

FCC Approvals Type accepted under Part 80 of *FCC Rules*;
meets Great Lakes Agreement and party boat requirements

Transmitter - Marine Radio

Power Output
LO 1 watt
HI 25 watts

Power Requirement (Output)
LO Not rated
HI 5.6A at 13.8V DC

Modulation FM ±5 kHz deviation (FCC designator F3E)

Audio Distortion Less than 8% with 3 kHz deviation with 1000 Hz modulating frequency

Spurious Suppression -25 dBm @ Hi, -25 dBm @ Lo

Output Power Stabilization Built-in automatic level control (ALC)

Frequency Range 156 to 158 MHz

Frequency Stability ±5 ppm @ -20°C to + 50°C

Receiver - Marine Radio

Frequency Range 156 to 163 MHz

Sensitivity 0.25 µV for 12 dB SINAD

Circuit Dual Conversion Super Heterodyne PLL

Squelch Sensitivity 0.2 µV (nominal) Threshold

Spurious Response 90 dB

Adjacent Channel Selectivity 80 dB @ ±25 kHz

Audio Output Power INT SP 1.8 watts (10% Distortion)

Power Requirement 450 mA @ 13.8V DC squelched, 1.4A @ 13.8V DC at maximum audio output

IF Frequencies 1st 45 MHz, 2nd 450 kHz

Inter Modulation Immunity 80 dB

Image rejection (1st and 2nd) 80 dB

IF Rejection (1st and 2nd) 80dB

Hailer/Fog Horn

Output Power @ 400 Hz Max. Volume (Horn 1 / Horn 2 @4 Ω) 25 watts
(Horn 1 + Horn 2 @2 Ω) 35 watts

Public Address/Listen Back

Output Power @ Max. Volume
PA1/PA2 Microphone Input 10mV, 1 KHz (4 Ω)25 watts
PA1 + PA2 Microphone Input 10mV, 1KHz (2 Ω) 35 watts
Listen Back Sensitivity (Hail 1/Hail 2) 5 mV

WHAM x 4 Base Specifications

Measurement Conditions

Power Source	13.8 VDC
External Antenna Impedance	50 Ω
Test Temperature	25°C±5°C
Reference Audio Output Power	2W (Ext. SP)
Audio Output Impedance	4 Ω

Transmitter Section - WHAM x 4 Base Transmitter

Specification	Unit	Nominal	Limit
RF Power (No Mod)	dBm	4	0>
Audio Sensitivity (1KHz -3.1dBm0 Input)	dBV	-44	-47~-41
Frequency Response	300Hz dB	-1	-4~2
	3000Hz dB	-1	-4~2
Distortion (15KHz LPF)	%	3	<5
S/N Ratio (CCITT Filter)	dB	55	>40
Deviation	KHz	500	399~621
Frequency Tolerance at 25°C	PPM	-92	<-87

Receiver Section - WHAM x 4 Base Transmitter

Sensitivity 20dB SINAD (CCITT FILTER)	dBm	-92	<-87
Frequency Response	300Hz dB	-1.5	-4.5~1.5
	3000Hz dB	0	-3~3
Distortion (1KHz - 3.1 dBm0 Input)	%	3	<5
S/N Ratio (CCITT Filter)	dB	55	>50

NMEA Operation

This radio supports NMEA0183 version 3.01.

NMEA Input

The radio supports RMC, GLL, GNS, GGA and ZDA sentences. When these sentences are received, the radio displays latitude/longitude, date, time, course, and speed. If any sentence except an RMC or GLL sentence is received, the radio uses the information based on the following priority order.

Status:RMC > GLL > GNS > GGA

Latitude/Longitude:RMC > GLL > GNS > GGA

UTC Time :RMC > GLL > GNS > GGA > ZDA

Date:RMC > ZDA

Speed / Course:RMC

Notes:

- If the radio received only a GLL sentence, the radio does not display the current speed, course, and date.
- If the radio received RMC and GLL sentences, the radio uses only the RMC sentence.

Status data is used to check which GPS data is valid or invalid.

NMEA Output

When the radio receives a DSC Call (Distress, Position Reply, Position Send), it outputs a DSC/DSE sentence from the NMEA output port.

Note: When the radio receives a Distress call, it outputs a sentence in the following format.

$CDDSC,12,3081234000,,07,00,0354013946,0657,,,S,E*6D

$CDDSE,1,1,A,3081234000,00,60875646*13

Reference Information

USA/Canadian/International Channel Frequencies

Ch. No.	USA	CAN	INT	RX	TX	Status	Full Name	12-Character Name
1"A"	X			156.0500	156.0500	Simplex	VESSEL TRAFFIC SYSTEM/COMMERCIAL	VTS/ COMMERCL
3"A"	X			156.1500	156.1500	Simplex	COAST GUARD, GOVT ONLY	CG ONLY
5"A"	X			156.2500	156.2500	Simplex	VESSEL TRAFFIC SYSTEM/COMMERCIAL	VTS/ COMMERCL
6	X			156.3000	156.3000	Simplex	INTER-SHIP SAFETY	SAFETY
7"A"	X			156.3500	156.3500	Simplex	COMMERCIAL	COMMERCIAL
8	X			156.4000	156.4000	Simplex	COMMERCIAL	COMMERCIAL
9	X			156.4500	156.4500	Simplex	NON COMMERCIAL	NON COMMERCL
10	X			156.5000	156.5000	Simplex	COMMERCIAL	COMMERCIAL
11	X			156.5500	156.5500	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC
12	X			156.6000	156.6000	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC
13	X			156.6500	156.6500	Simplex, 1W	BRIDGE TO BRIDGE	BRDG TO BRDG
14	X			156.7000	156.7000	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC
15	X			156.7500	Inhibit	Receive Only	ENVIRONMENTAL	ENVIRONMENTL
16	X			156.8000	156.8000	Simplex	DISTRESS, SAFETY, CALLING	DITRESS
17	X			156.8500	156.8500	Simplex, 1W	GOVT MARITIME CONTROL	GOVERNMENT
18"A"	X			156.9000	156.9000	Simplex	COMMERCIAL	COMMERCIAL
19"A"	X			156.9500	156.9500	Simplex	COMMERCIAL	COMMERCIAL
20"A"	X			157.0000	157.0000	Simplex	PORT OPERATION	PORT OPERATN
21"A"	X			157.0500	157.0500	Simplex	COAST GUARD ONLY	COAST GUARD
22"A"	X			157.1000	157.1000	Simplex	COAST GUARD	COAST GUARD
23"A"	X			157.1500	157.1500	Simplex	COAST GUARD ONLY	COAST GUARD
24	X			161.8000	157.2000	Duplex	MARINE OPERATOR	MAR OPERATOR
25	X			161.8500	157.2500	Duplex	MARINE OPERATOR	MAR OPERATOR
26	X			161.9000	157.3000	Duplex	MARINE OPERATOR	MAR OPERATOR
27	X			161.9500	157.3500	Duplex	MARINE OPERATOR	MAR OPERATOR
28	X			162.0000	157.4000	Duplex	MARINE OPERATOR	MAR OPERATOR
61"A"	X			156.0750	156.0750	Simplex	COAST GUARD	COAST GUARD
63"A"	X			156.1750	156.1750	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC

Ch. No.	USA	CAN	INT	RX	TX	Status	Full Name	12-Character Name
64”A”	X			156.2250	156.2250	Simplex	COMMERCIAL	COMMERCIAL
65”A”	X			156.2750	156.2750	Simplex	PORT OPERATION	PORT OPERATN
66”A”	X			156.3250	156.3250	Simplex	PORT OPERATION	PORT OPERATN
67	X			156.3750	156.3750	Simplex, 1W	BRIDGE TO BRIDGE	BRDG TO BRDG
68	X			156.4250	156.4250	Simplex	NON COMMERCIAL	NON COMMERCL
69	X			156.4750	156.4750	Simplex	NON COMMERCIAL	NON COMMERCL
70	X			156.5250	156.5250	DSC Only	DIGITAL SELECTIVE CALLING	DSC
71	X			156.5750	156.5750	Simplex	NON COMMERCIAL	NON COMMERCL
72	X			156.6250	156.6250	Simplex	NON COMMERCIAL (SHIP-SHIP)	NON COMMERCL
73	X			156.6750	156.6750	Simplex	PORT OPERATION	PORT OPERATN
74”	X			156.7250	156.7250	Simplex	PORT OPERATION	PORT OPERATN
75	X			156.775	156.775	Simplex, 1W	PORT OPERATION	PORT OPERATN
76	X			156.825	156.825	Simplex, 1W	PORT OPERATION	PORT OPERATN
77	X			156.8750	156.8750	Simplex, 1W	PORT OPERATION (SHIP-SHIP)	PORT OPERATN
78”A”	X			156.9250	156.9250	Simplex	NON COMMERCIAL	NON COMMERCL
79”A”	X			156.9750	156.9750	Simplex	COMMERCIAL	COMMERCL
80”A”	X			157.0250	157.0250	Simplex	COMMERCIAL‘	COMMERCIAL
81”A”	X			157.0750	157.0750	Simplex	COAST GUARD	COAST GUARD
82”A”	X			157.1250	157.1250	Simplex	COAST GUARD	COAST GUARD
83”A”	X			157.1750	157.1750	Simplex	GOVERNMENT	GOVERNMENT
84”	X			161.8250	157.2250	Duplex	MARINE OPERATOR	MAR OPERATOR
85	X			161.8750	157.2570	Duplex	MARINE OPERATOR	MAR OPERATOR
86	X			161.9250	157.3250	Duplex	MARINE OPERATOR	MAR OPERATOR
87	X			161.9750	157.3750	Duplex	MARINE OPERATOR	MAR OPERATOR
88	X			162.0250	157.4250	Duplex	MARINE OPERATOR	MAR OPERATOR
88”A”	X			157.4250	157.4250	Simplex	COMMERCIAL (SHIP-SHIP)	COMMERCIAL

Ch. No.	USA	CAN	INT	RX	TX	Status	Full Name	12-Character Name
1		X		160.6500	156.0500	Duplex	MARINE OPERATOR	MAR OPERATOR
2		X		160.7000	156.1000	Duplex	MARINE OPERATOR	MAR OPERATOR
3		X		160.7500	156.1500	Duplex	MARINE OPERATOR	MAR OPERATOR
4”A”		X		156.2000	156.2000	Simplex	CANADIAN COAST GUARD	COAST GUARD
5”A”		X		156.2500	156.2500	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC
6		X		156.3000	156.3000	Simplex	INTER-SHIP SAFETY	SAFETY
7”A”		X		156.3500	156.3500	Simplex	COMMERCIAL	COMMERCIAL
8		X		156.4000	156.4000	Simplex	COMMERCIAL	COMMERCIAL
9		X		156.4500	156.4500	Simplex	BOATER CALLING CHANNEL	CALLING
10		X		156.5000	156.5000	Simplex	COMMERCIAL	COMMERCIAL
11		X		156.5500	156.5500	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC
12		X		156.6000	156.6000	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC
13		X		156.6500	156.6500	Simplex, 1W	BRIDGE TO BRIDGE	BRDG TO BRDG
14		X		156.7000	156.7000	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC
15		X		156.7500	156.7500	Simplex	ENVIRONMENTAL	ENVIRONMENTL
16		X		156.8000	156.8000	Simplex	DISTRESS, SAFETY, CALLING	DITRESS
17		X		156.8500	156.8500	Simplex, 1W	STATE CONTROL	STATE CNTRL
18”A”		X		156.9000	156.9000	Simplex	COMMERCIAL	COMMERCIAL
19”A”		X		156.9500	156.9500	Simplex	CANADIAN COAST GUARD	COAST GUARD
20		X		161.6000	157.0000	Duplex, 1W	PORT OPERATION	PORT OPERATN
21”A”		X		157.0500	157.0500	Simplex	CANADIAN COAST GUARD	COAST GUARD
22”A”		X		157.1000	157.1000	Simplex	CANADIAN COAST GUARD	COAST GUARD
23		X		161.7500	157.1500	Duplex	CANADIAN COAST GUARD	COAST GUARD
24		X		161.8000	157.2000	Duplex	MARINE OPERATOR	MAR OPERATOR
25		X		161.8500	157.2500	Duplex	MARINE OPERATOR	MAR OPERATOR
26		X		161.9000	157.3000	Duplex	MARINE OPERATOR	MAR OPERATOR
27		X		161.9500	157.3500	Duplex	MARINE OPERATOR	MAR OPERATOR
28		X		162.0000	157.4000	Duplex	MARINE OPERATOR	MAR OPERATOR
60		X		160.6250	156.0250	Duplex	MARINE OPERATOR	MAR OPERATOR
61”A”		X		156.0750	156.0750	Simplex	CANADIAN COAST GUARD	COAST GUARD

Ch. No.	USA	CAN	INT	RX	TX	Status	Full Name	12-Character Name
62”A”		X		156.1250	156.1250	Simplex	CANADIAN COAST GUARD	COAST GUARD
64		X		160.8250	156.2250	Duplex	MARINE OPERATOR	MAR OPERATOR
64”A”		X		156.2250	156.2250	Simplex	MARINE OPERATOR	MAR OPERATOR
65”A”		X		156.2750	156.2750	Simplex	SEARCH AND RESCUE	SRCH RESCUE
66”A”		X		156.3250	156.3250	Simplex, 1W	PORT OPERATION	PORT OPERATN
67		X		156.3750	156.3750	Simplex	BRIDGE TO BRIDGE	BRDG TO BRDG
68		X		156.4250	156.4250	Simplex	NON COMMERCIAL	NON COMMERCL
69		X		156.4750	156.4750	Simplex	NON COMMERCIAL	NON COMMERCL
70		X		156.5250	156.5250	DSC Only	DIGITAL SELECTIVE CALLING	DSC
71”		X		156.5750	156.5750	Simplex	NON COMMERCIAL	NON COMMERCL
72		X		156.6250	156.6250	Simplex	NON COMMERCIAL	NON COMMERCL
73		X		156.6750	156.6750	Simplex	PORT OPERATION	PORT OPERATN
74		X		156.7250	156.7250	Simplex	PORT OPERATION	PORT OPERATN
75		X		156.775	156.775	Simplex, 1W	PORT OPERATION	PORT OPERATN
76		X		156.825	156.825	Simplex, 1W	PORT OPERATION	PORT OPERATN
77		X		156.8750	156.8750	Simplex, 1W	PORT OPERATION	PORT OPERATN
78”A”		X		156.9250	156.9250	Simplex	INTER SHIP	INTER SHIP
79”A”		X		156.9750	156.9750	Simplex	INTER SHIP	INTER SHIP
80”A”		X		157.0250	157.0250	Simplex	INTER SHIP	INTER SHIP
81”A”		X		157.0750	157.0750	Simplex	CANADIAN COAST GOARD	COAST GUARD
82”A”		X		157.1250	157.1250	Simplex	CANADIAN COAST GUARD	COAST GUARD
83”		X		161.7750	157.1750	Duplex	CANADIAN COAST GOARD	COAST GOARD
83”A”		X		157.1750	157.1750	Simplex	CANADIAN COAST GOARD	COAST GOARD
84		X		161.8250	157.2250	Duplex	MARINE OPERATOR	MAR OPERATOR
85		X		161.8750	157.2750	Duplex	MARINE OPERATOR	MAR OPERATOR
86		X		161.9250	157.3250	Duplex	MARINE OPERATOR	MAR OPERATOR
87		X		161.9750	157.3750	Duplex	MARINE OPERATOR	MAR OPERATOR

Ch. No.	USA	CAN	INT	RX	TX	Status	Full Name	12-Character Name
88		X		162.0250	157.4250	Duplex	MARINE OPERATOR	MAR OPERATOR
1			X	160.6500	156.0500	Duplex	MARINE OPERATOR	MAR OPERATOR
2			X	160.7000	156.1000	Duplex	MARINE OPERATOR	MAR OPERATOR
3			X	160.7500	156.1500	Duplex	MARINE OPERATOR	MAR OPERATOR
4			X	160.8000	156.2000	Duplex	MARINE OPERATOR	MAR OPERATOR
5			X	160.8500	156.2500	Duplex	MARINE OPERATOR	MAR OPERATOR
6			X	156.3000	156.3000	Simplex	INTER-SHIP SAFETY	SAFETY
7			X	160.9500	156.3500	Duplex	MARINE OPERATOR	MAR OPERATOR
8			X	156.4000	156.4000	Simplex	COMMERCIAL (SHIP-SHIP)	COMMERCIAL
9			X	156.4500	156.4500	Simplex	BOATER CALLING CHANNEL	CALLING
10			X	156.5000	156.5000	Simplex	COMMERCIAL	COMMERCIAL
11			X	156.5500	156.5500	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC
12			X	156.6000	156.6000	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC
13			X	156.6500	156.6500	Simplex	BRIDGE TO BRIDGE	BRDG TO BRDG
14			X	156.7000	156.7000	Simplex	VESSEL TRAFFIC SYSTEM	VSL TRAFFIC
15			X	156.7500	156.7500	Simplex, 1W	ENVIRONMENTAL	ENVIRONMENTL
16			X	156.8000	156.8000	Simplex	DISTRESS, SAFETY, CALLING	DITRESS
17			X	156.8500	156.8500	Simplex, 1W	GOVT MARITIME CONTROL	GOVERNMENT
18			X	161.5000	156.9000	Duplex	PORT OPERATION	PORT OPERATN
19			X	161.5500	156.9500	Duplex	COMMERCIAL	COMMERCIAL
20			X	161.6000	157.0000	Duplex	PORT OPERATION	PORT OPERATN
21			X	161.6500	157.0500	Duplex	PORT OPERATION	PORT OPERATN
22			X	161.7000	157.1000	Duplex	PORT OPERATION	PORT OPERATN
23			X	161.7500	157.1500	Duplex	MARINE OPERATOR	MAR OPERATOR
24			X	161.8000	157.2000	Duplex	MARINE OPERATOR	MAR OPERATOR
25			X	161.8500	157.2500	Duplex	MARINE OPERATOR	MAR OPERATOR
26			X	161.9000	157.3000	Duplex	MARINE OPERATOR	MAR OPERATOR
27			X	161.9500	157.3500	Duplex	MARINE OPERATOR	MAR OPERATOR
28			X	162.0000	157.4000	Duplex	MARINE OPERATOR	MAR OPERATOR
60			X	160.6250	156.0250	Duplex	MARINE OPERATOR	MAR OPERATOR

Ch. No.	USA	CAN	INT	RX	TX	Status	Full Name	12-Character Name
61			X	160.6750	156.0750	Duplex	MARINE OPERATOR	MAR OPERATOR
62			X	160.7250	156.1250	Duplex	MARINE OPERATOR	MAR OPERATOR
63			X	160.7750	156.1750	Duplex	MARINE OPERATOR	MAR OPERATOR
64			X	160.8250	156.2250	Duplex	MARINE OPERATOR	MAR OPERATOR
65			X	160.8750	156.2750	Duplex	MARINE OPERATOR	MAR OPERATOR
66			X	160.9250	156.3250	Duplex	MARINE OPERATOR	MAR OPERATOR
67			X	156.3750	156.3750	Simplex	BRIDGE TO BRIDGE	BRDG TO BRDG
68			X	156.4250	156.4250	Simplex	NON COMMERCIAL	NON COMMERCL
69			X	156.4750	156.4750	Simplex	NON COMMERCIAL	NON COMMERCL
70			X	156.5250	156.5250	DSC Only	DIGITAL SELECTIVE CALLING	DSC
71			X	156.5750	156.5750	Simplex	NON COMMERCIAL	NON COMMERCL
72			X	156.6250	156.6250	Simplex	NON COMMERCIAL	NON COMMERCL
73			X	156.6750	156.6750	Simplex	PORT OPERATION	PORT OPERATN
74			X	156.7250	156.7250	Simplex	PORT OPERATION	PORT OPERATN
75			X	156.775	156.775	Simplex, 1W	PORT OPERATION	PORT OPERATN
76			X	156.825	156.825	Simplex, 1W	PORT OPERATION	PORT OPERATN
77			X	156.8750	156.8750	Simplex	PORT OPERATION (SHIP-SHIP)	PORT OPERATN
78			X	161.5750	156.9250	Duplex	PORT OPERATION	PORT OPERATN
79			X	161.5750	156.9750	Duplex	PORT OPERATION	PORT OPERATN
80			X	161.6250	157.0250	Duplex	PORT OPERATION	PORT OPERATN
81			X	161.6750	157.0750	Duplex	PORT OPERATION	PORT OPERATN
82			X	161.7250	157.1250	Duplex	PORT OPERATION	PORT OPERATN
83			X	161.7750	157.1750	Duplex	PORT OPERATION	PORT OPERATN
84			X	161.8250	157.2250	Duplex	MARINE OPERATOR	MAR OPERATOR
85			X	161.8750	157.2750	Duplex	MARINE OPERATOR	MAR OPERATOR
86			X	161.9250	157.3250	Duplex	MARINE OPERATOR	MAR OPERATOR
87			X	161.9750	157.3750	Duplex	MARINE OPERATOR	MAR OPERATOR
88			X	162.0250	157.4250	Duplex	MARINE OPERATOR	MAR OPERATOR

Weather Channel Frequencies

Ch. No.	RX Frequency	Description (Receive Only)
WX01	162.5500	Weather Information
WX02	162.4000	Weather Information
WX03	162.4750	Weather Information
WX04	162.4250	Weather Information
WX05	162.4500	Weather Information
WX06	162.5000	Weather Information
WX07	162.5250	Weather Information
WX08	161.6500	Weather Information
WX09	161.7750	Weather Information
WX10	163.2750	Weather Information

SAME Event Codes

Standard	Event Code	Warning	Watch	Statement	Test	Display
ADR	Administrative Message			X		ADMIN MSG
AVA	Avalanche Watch		X			AVALANCHE
AVW	Avalanche Warning	X				AVALANCHE
BHW	Biological Hazard Warning	X				BIOLOGICAL
BWW	Boil Water Warning	X				BOIL WATER
BZW	Blizzard Warning	X				BLIZZARD
CAE	Child Abduction Emergency			X		CHILD EMG
CDW	Civil Danger Warning	X				CIVIL DANGER
CEM	Civil Emergency Message	X				CIVIL EMG
CFA	Coastal Flood Watch		X			COAST FLOOD
CFW	Coastal Flood Warning	X				COAST FLOOD
CHW	Chemical Hazard Warning	X				CHEMICAL
DBA	Dam Watch		x			DAM BREAK
DBW	Dam Break Warning	X				DAM BREAK
DEW	Contagious Disease Warning	X				CONTAGIOUS
DMO	Practice/Demo				X	SYSTEM DEMO
DSW	Dust Storm Warning	X				DUST STORM
EAN	Emergency Action Notification	X				EMG NOTIFY
EAT	Emergency Action Termination	X		X		EMG END
EQW	Earthquake Warning	X				EARTHQUAKE
EVI	Immediate Evacuation	X				EVACUATION
EVA	Evacuation Watch		X			EVACUATION
FCW	Food Contamination Warning	X				FOOD
FFA	Flash Flood Watch		X			FLASH FLOOD
FFS	Flash Flood Statement			X		FLASH FLOOD
FFW	Flash Flood Warning‘	X				FLASH FLOOD
FLA	Flood Watch		X			FLOOD
FLS	Flood Statement			X		FLOOD
FLW	Flood Warning	X				FLOOD
FRW	Fire Warning	X				FIRE
FSW	Flash Freeze Warning	X				FLASH FREEZE
FZW	Freeze Warning	X				FREEZE
HLS	Hurricane Statement			X		HURRICANE
HMW	Hazardous Material Warning	X				HAZARDOUS
HUA	Hurricane Watch		X			HURRICANE
HUW	Hurricane Warning	X				HURRICANE
HWA	High Wind Watch		X			HIGH WIND
HWW	High Wind Warning	X				HIGH WIND
IBW	Iceberg Warning	X				ICEBERG
IFW	Industrial Fire Warning	X				INDUST FIRE
LAE	Local Area Emergency			X		LOCAL EMG
LEW	Law Enforcement Warning	X				LAW ENFORCE
LSW	Land Slide Warning	X				LAND SLIDE

Standard	Event Code	Warning	Watch	Statement	Test	Display
NAT	National Audible Test				X	NAT AUDIBLE
NIC	National Information Center			X		NATION INFO
NMN	Network Notification Message			X		NETWORK MSG
NPT	National Periodic Test				X	NATIONPERIOD
NST	National Silent Test				X	NATIONSILENT
NUW	Nuclear Power Plant Warning	X				NUCLEAR
POS	Power Outage Advisory			X		POWER OUTAGE
RHW	Radiological Hazard Warning	X				RADIOLOGICAL
RMT	Required Monthly Test				X	MONTHLY
RWT	Required Weekly Test				X	WEEKLY
SMW	Special Marine Warning	X				SPECIAL MRN
SPS	Special Weather Statement			X		SPECIAL WX
SPW	Shelter In-Place Warning	X				SHELTER
SVA	Severe Thunderstorm Watch		X			THUNDERSTORM
SVR	Severe Thunderstorm Warning	X				THUNDERSTORM
SVS	Severe Weather Statement			X		SEVERE WX
TOA	Tornado Watch		X			TORNADO
TOE	911 Telephone Outage Emergency			X		911 OUTAGE
TOR	Tornado Warning	X				TORNADO
TRA	Tropical Storm Watch		X			TROPIC STORM
TRW	Tropical Storm Warning	X				TROPIC STORM
TSA	Tsunami Watch		X			TSUNAMI
TSW	Tsunami Warning	X				TSUNAMI
VOW	Volcano Warning	X				VOLCANO
WFW	Wild Fire Warning	X				WILD FIRE
WFA	Wild Fire Watch		X			WILD FIRE
WSA	Winter Storm Watch		X			WINTER STORM
WSW	Winter Storm Warning	X				WINTER STORM
* * A	Unrecognized Watch		X			UNRECOGNIZED
* * E	Unrecognized Emergency			X		UNRECOGNIZED
* * S	Unrecognized Statement			X		UNRECOGNIZED
* * W	Unrecognized Warning	X				UNRECOGNIZED
TXB	Transmitter Backup On					No event code shown
TXF	Transmitter Carrier On					No event code shown
TXO	Transmitter Carrier Off					No event code shown
TXP	Transmitter Primary On					No event code shown

Three Year Limited Warranty

WARRANTOR: UNIDEN AMERICA CORPORATION (“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 either, at its option, repair or replace the defective unit 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. Warrantor, at its option, may replace the unit with a new or refurbished unit. THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY
PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

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

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

Uniden America Corporation
Parts and Service Division
4700 Amon Carter Boulevard
Fort Worth, TX 76155
(800) 554-3988, 7:00 a.m. to 7:00 p.m., Central,
Monday through Friday

148mm

210mm

At Uniden, we care about you!
If you need assistance, please DO NOT return this product to your place of purchase. Our customer care specialists are available to help you!

Questions? Difficulties with operation? Quickly find answers to your questions by:
1. First, carefully read your owner's manual included with this product.
2. Visit our customer support website at: www.uniden.com
3. Missing parts or accessories? Call Parts & Service at 1-800-554-3988.
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