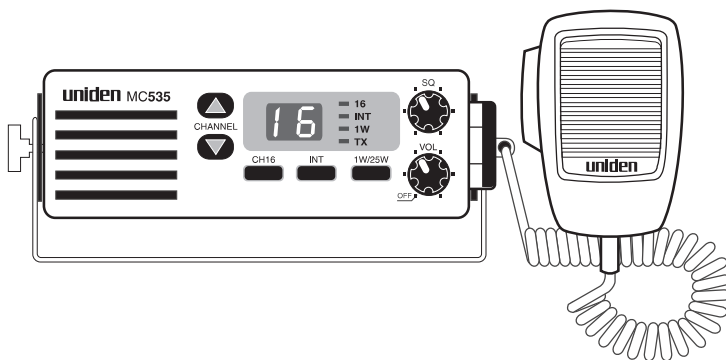


uniden®

MC535

VHF Marine Radio



Operating Guide

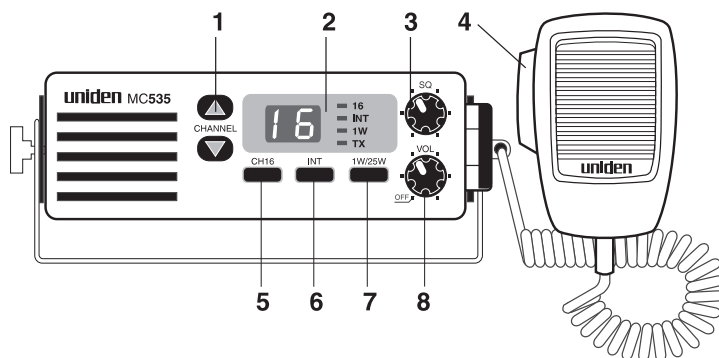
Maritime Radio Services Operation

You are required to comply with the Rules and Regulations set forth by the Federal Communications Commission. A complete set of FCC Marine Radio Rules may be purchased from the US Government Printing Office by requesting "Volume IV of the FCC Rules." Some of the important rules follow:

- You must obtain a Ship's Station License by making application to the FCC on FCC Form 506. A copy of this form is included with your radio. An Interim Ship's Station License may be obtained by personal appearance at your local FCC Field Office. The Ship's Station License must be posted at the station location.
- A Restricted Radiotelephone Operator Permit (or higher grade license) must also be obtained from the FCC in order to legally operate your transmitter in international waters. Application is to be made on FCC Form 753. An interim permit is automatically granted upon submission of your application.
- You must keep a current copy of the appropriate FCC Rules.
- You must maintain a log book in which you record all calls and full transmitter maintenance records.
- Your transmitter must be verified to be in compliance with current FCC requirements by an appropriately licensed technician. This has been done at the factory for your **MC535**. A signed Certificate of Compliance Card is included with your radio and should be kept with your log book.
- You may not make transmitter tuning adjustments unless you are the holder of a valid first or second class commercial license issued by the FCC. Please request the assistance of your Uniden Marine Dealer and your nearest FCC Field Office if you need other than a Ship's Station License.

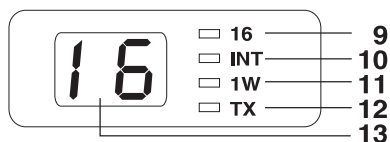
Controls and Indicators

Controls



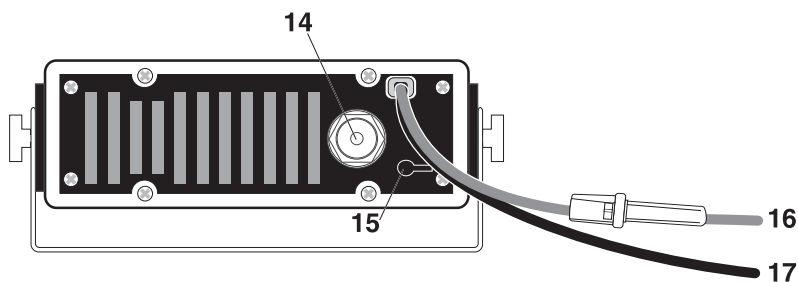
1. **UP/DWN Channel Selectors** – These controls are used to select the desired communication channel.
2. **LED Panel** – Indicators for **Channel Number, 16, INT, 1W** and **TX**.
3. **SQ (Squelch)** – Eliminates the background noise when no signal is being received.
4. **Push-to-Talk (PTT) Switch** – Press to transmit and release to receive.
5. **CH16** – Controls access to instant Channel 16 communications.
6. **INT (USA/International)** – Switches operation between US and International Channels.
7. **1W/25W(TX Output)** – Controls transmitter's output power.
8. **VOL (On/Off/Volume)** – Turns the **MC535** power on or off and adjusts the volume.

Indicators



9. **16** – Indicates that Channel 16 is selected.
10. **INT** – Indicates International Channel Mode.
11. **1W** – Indicates transmitted output is 1 Watt.
12. **TX (Transmit)** – Indicates PTT switch is pressed and radio is transmitting.
13. **LED Numerical Channel Display** – Indicates Channel Number in use. Weather Channels are displayed as single digits (Example: 0, 1, 2, 3, etc.). Communication Channels are displayed as two digits (Example: 01, 02, 03, etc.).

Rear Panel Connectors



14. **Antenna Connector** – Connect the antenna here using a PL259 type connector.
15. **Remote Speaker Connector** – An external 4 ohm, 4 watt speaker may be connected to this jack. The connecting wire must use the included 3.5mm miniature plug.
16. **DC Power Cord with In-line Fuse Holder** – Connect red power lead to positive power source.
17. **DC Ground Cord** – Connect black power lead to negative power source.

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Introduction

The Uniden **MC535** VHF marine radio transceiver is designed to provide you with years of trouble-free service. It's rugged components and materials are easily capable of withstanding the harsh marine environment. The transceiver has a splashproof housing to protect the electronics, and the unit may be mounted in several convenient locations on-board your vessel using the universal mounting bracket.

You can be confident in your choice of radio equipment because the **MC535** offers Instant Channel 16 access, automatic transmitter time-out, and complete coverage of the marine frequency band. It will meet your communication needs by providing you with state-of-the-art radio electronics that are easy to operate.

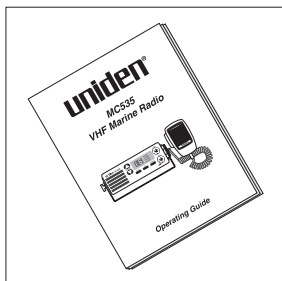
We are certain that you will enjoy your **MC535**. To ensure that you get the most from its features, please read this operating guide carefully before using the unit.

Features

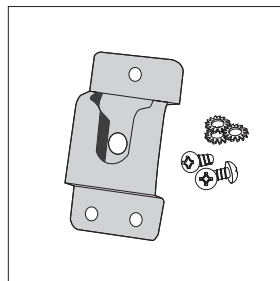
- Receives 90 Marine Channels
- 1W/25W Transmitter
- Instant Channel 16 Button
- 5 Minute Transmitter Time-Out
- USA/INT Frequency Capable
- Receives 10 Weather Channels
- Transmits 55 Marine Channels
- External Speaker Jack
- Splash Proof Chassis
- Channel Auto Repeat

Specifications, Features, and availability of Optional Accessories are all subject to change without prior notice.

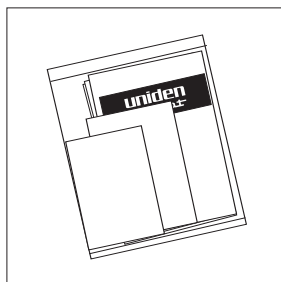
Included with your MC535



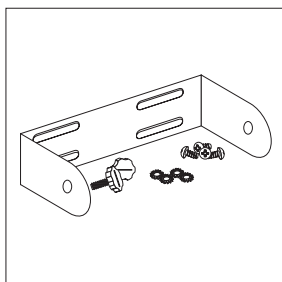
MC535 Owners Manual
OMMC535



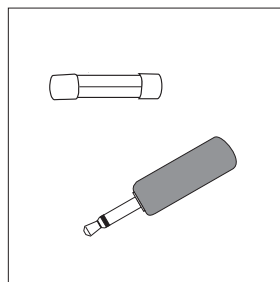
Microphone Hanger and
Screws
MH635



Other Printed Material



Mounting Bracket and
Knobs
MB635



3.5mm Mini Plug
ESP635
and Spare Fuse

Installation

Caution: *The MC535 will operate only with nominal 12 volt negative ground battery systems.*

Selecting a Location

Before choosing a location for your new **MC535**, review these guidelines:

- Carefully consider the unit's electrical and mechanical mounting requirements, as well as your accessibility needs.
- Select a location that allows free air flow around the heat sink in the back of the radio.
- Select a location that is free from spray and splash and doesn't expose your radio to direct sunlight.
- Keep the battery leads as short as possible, and for best results connect directly to the battery. If the supplied power lead isn't long enough to reach the battery, extensions should be made with at least #10 AWG wire.
- Choose a location for the radio and auxillary speaker (if installed) that is away from the ship's compass.

Antenna Considerations

Many different antennas are available for your radio. We recommend that you consult your Uniden dealer in determining a suitable antenna for your vessel and range requirements.

In general when choosing or installing your antenna, consider these guidelines:

- The range increases with a high-gain antenna placed as high as possible above the water line.
- The antenna should not have an excessively long coaxial feed cable.
- The antenna should be located away from metal objects.

Engine Noise Suppression

The **MC535** has been designed to minimize ignition and alternator noise. However, in some installations it may be necessary to take additional steps to help eliminate noise interference. During installation, try to direct the DC battery wires, the antenna lead, and accessory cables away from the engine compartment or ignition and alternator wiring.

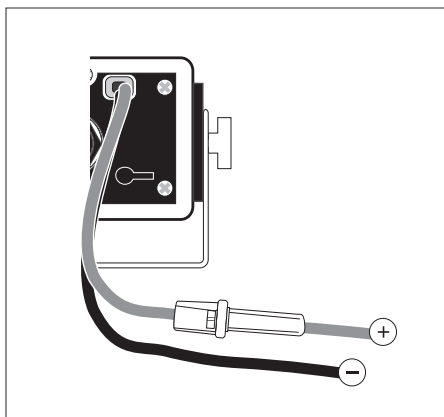
If the noise continues, it may be necessary to install a noise suppression kit. Contact your Uniden dealer for more information.

Installing the MC535

After choosing a location, position the radio (with the bracket, microphone, power cord, antenna cable, and external speaker lead, if installed) to make sure it fits. Then follow these steps:

1. Using the bracket as a template, mark the holes for the mounting hardware.
2. Drill the holes and mount the bracket with hardware appropriate for the mounting surface.
3. Connect the red power lead to the positive (+) battery terminal or to an accessory contact in your vessel's fuse box.

Note: The power cord is equipped with a 6-ampere fast blow fuse to protect your radio. Use only a 6-ampere replacement fuse.

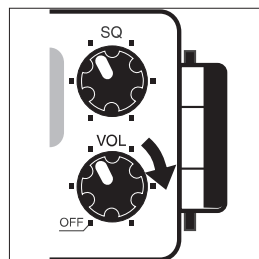


4. Connect the black wire of the power cord to the negative (-) battery terminal or to a ground source in your vessel's fuse box.
5. Install the radio in the mounting bracket and connect the antenna cable and accessories to their appropriate jacks and connectors.

Operation

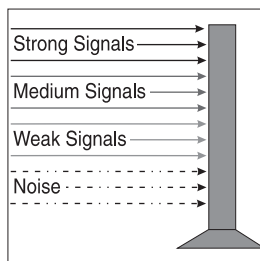
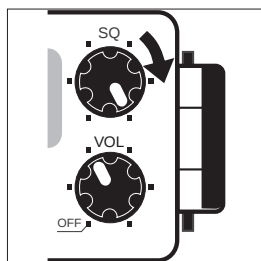
Setting the Squelch

1. To turn the unit **ON**, rotate **VOLUME** clockwise. Adjust volume to a comfortable level.

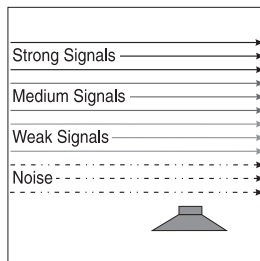
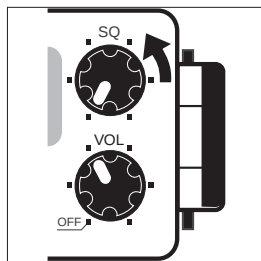


Note: You must select a channel which is not in use before setting the **SQUELCH** control on your radio.

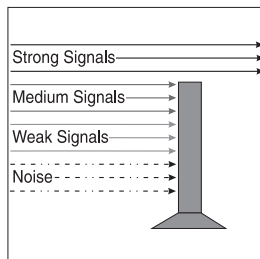
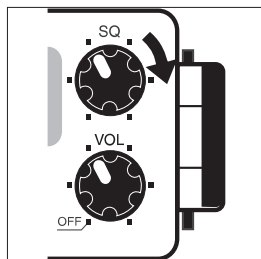
2. Think of the Squelch control as a gate. If you turn **SQUELCH** fully clockwise it raises the “Squelch Gate” so high that no signals get through.



3. If you turn **SQUELCH** fully counterclockwise it lowers the “Squelch Gate” so that everything gets through — noise, weak signals, and strong signals.

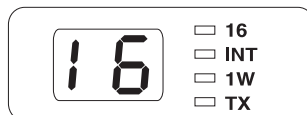


4. To set the “Squelch Gate” to the desired level, turn **SQUELCH** counterclockwise until you hear noise. Then turn **SQUELCH** back clockwise just until the noise stops. Now only strong signals get through.

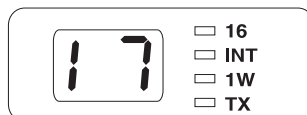


Selecting a Channel

1. When you turn on your **MC535**, it is automatically on Channel 16.

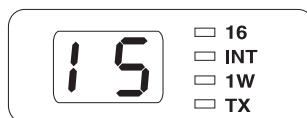


- 2a. Press **UP**, to select a higher channel,



— or —

- 2b. Press **DWN**, to select a lower channel.



Note: Each time **UP** or **DWN** is pressed a short tone sounds.

Channel Auto Repeat

To quickly change channels, press and hold **UP** or **DWN**. This changes channels at five per second.

Note: A short tone sounds when you press either **UP** or **DWN** and the channel changes. Another tone sounds when Channel Auto Repeat begins.

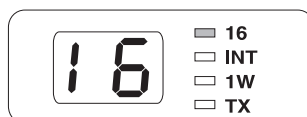
Instant Channel 16 Communications

You can access Channel 16 instantly while tuned to another channel using the **CH16** switch.

1. For example, suppose you are on Channel 63.



2. Press **CH16**.



3. Press **CH16** again, to return to the previous channel.

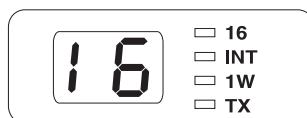


Note: Each time **CH16** is pressed a short tone sounds.

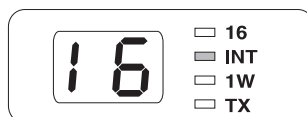
USA/INT Channels

The **MC535** can transmit and receive in both USA and International frequencies. To change the selected set of frequencies use **INT**.

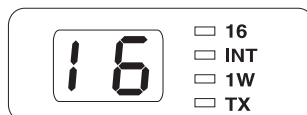
1. When you turn the **MC535** on, the USA frequencies are automatically selected.



2. Press **INT**, to change to the international frequencies.



3. Press **INT** again, to return to the USA frequencies.



Note: Each time **INT** is pressed a short tone sounds.

Transmitting

The **MC535** transmits on 55 marine frequencies and receives 90 different marine frequencies. Certain channels — the weather channels, channel 70 of both the USA and International frequencies, and channel 15 of the USA frequencies — are receive only. Your radio will not transmit on these channels. For your reference, a listing of all the available marine channels is printed on the back cover foldout.

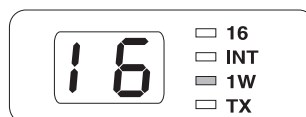
Setting TX Output

Caution: *It is important to remember to always use the **1W** position in port or for short range communications.*

1. When you turn the **MC535** on, the unit is automatically set to transmit at 25 watts.



2. Press **1W/25W**, to change the transmitter output to 1W.



3. Press **1W/25W** again, to change back to the higher power setting.

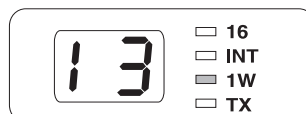


Note: *Each time the **1W/25W** key is pressed a short tone sounds.*

Emergency High Power Override

The FCC has limited transmission power to 1W on channels 13 and 67, except in emergencies. These channels are set automatically to **1W** when selected.

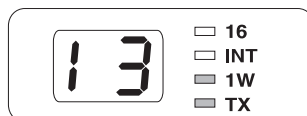
For example, you are on Channel 13.



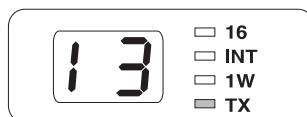
If necessary, you can override the **1W** power output setting during an emergency situation.

Warning: *This is an emergency procedure and should be used accordingly.*

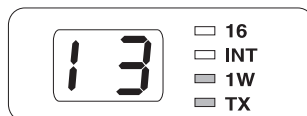
1. Press the **PTT** switch on your microphone.



2. Press and hold **1W/25W**.

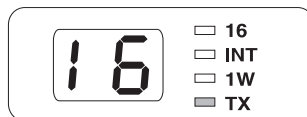


3. Releasing the **1W/25W** returns to **1W** output.

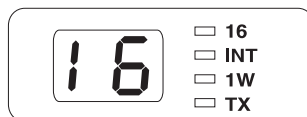


Transmitting with the MC535

1. Press the **PTT** switch, to activate the transmitter.



2. Release the **PTT** switch, to end the transmission.



Note: *If the **PTT** switch is held down and the power is turned on, a warning tone sounds, the **LED display** begins to flash, and the unit will not transmit. The **MC535** resets for normal operation when the **PTT** switch is released.*

Transmitter Time-Out

If the **PTT** switch on your microphone is held for more than 5-minutes, the **MC535** transmitter automatically shuts off, a warning tone sounds, and the **LED display** begins to flash. This prevents damage to your receiver, and — in the event that the transmission is unintentional — communication frequencies will not be jammed.

Troubleshooting

If your **MC535** does not perform up to expectations, try the suggestions listed below. If you cannot get satisfactory results, call the Uniden Customer Service Center at (800) 586-0409, 8:00 a.m. to 5:00 p.m., Eastern Standard Time, Monday through Friday.

Unit does not operate	• Make sure that the volume control is in the ON position. • Check in-line power fuse. Replace if necessary with 6 amp fast-blow fuse only. • Check the power cord. Be sure that the connections are intact and 12V power is supplied.
Weak signal	• Check antenna connections at base of antenna and at the back of the radio. • Change to another channel and check reception again.
Unit will not transmit	• Check to see if channel is "receive only." • Check antenna connections at base of antenna and at the back of the radio.
Excessive background noise	• Check and set SQUELCH control.
Channel transmits at 1W only	• Check if FCC restricted channel. (See page 9 for more information).
Channel display flashes	• Turn power off. Release the PTT switch, and turn the radio back on. • Transmitter time-out activated. Release PTT and allow radio to reset.

Care and Maintenance

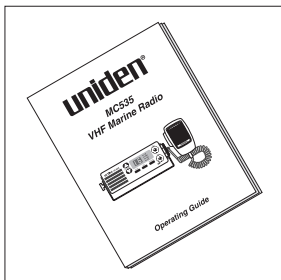
Your **MC535** is a precision piece of electronic equipment and you should treat it accordingly. Its rugged design requires very little maintenance; however, these precautions should be observed:

- If your radio has been accidentally sprayed or splashed, you should immediately wipe it down with a soft cloth dampened with fresh water.
- If the antenna has been damaged, you should not transmit except in case of emergency. A defective antenna may cause damage to your radio.

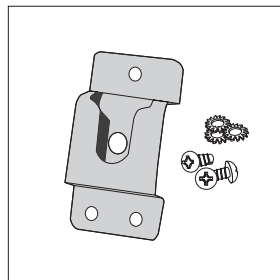
Since you are responsible for the continued FCC technical compliance of your radio, we recommend that you arrange for periodic performance checks with your Uniden Marine Dealer.

Replacement Parts

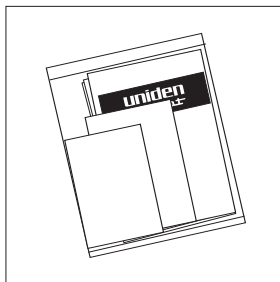
These replacement parts are available for your **MC535** by *contacting your Uniden dealer or Uniden America Corporation.*



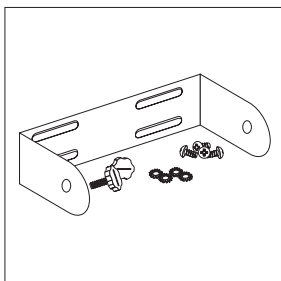
Owners Manual
OMMC535



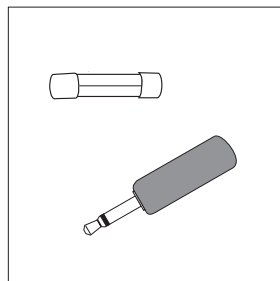
Microphone Hanger and
Screws
MH635



Other Printed Material



Mounting Bracket and
Knobs
MB635



3.5mm Mini Plug
ESP635
and Spare Fuse

Service

Should you find it desirable or necessary to service your **MC535**, we suggest you contact the Uniden dealer where your purchase was made. Your dealer will be able to assist you with complete service information.

If you require service that is within the terms of your warranty you should present a copy of your receipt to your dealer to authenticate your claim.

If you find it inconvenient to obtain service assistance from a dealer, you may obtain service from the Factory Service Station. If you want factory service, please pack your radio in a suitable container that will provide adequate protection, enclose a note describing the problem and a copy of your receipt, and send the radio (transportation prepaid) to:

Uniden America Corporation
4700 Amon Carter Blvd.
Ft. Worth, TX 76155
(800) 297-1023, 8 AM to 5 PM Central, Monday through Friday

Specifications

General

Channels	Transmit 55 Receive 80 Marine 10 Weather
Controls	ON/OFF/Volume, Squelch
Status Indicators	16, INT, 1W, TX LED (transmit)
Channel Display	LED (Dual 7 segment)
Channel Selector	UP/DWN select keys
Buttons	CH16, INT, 1W/25W
Connectors	Antenna and remote speaker
Size	2 3/16"H x 6 1/8"W x 7 9/16"L
Weight	2.4 lbs
Supply Voltage	13.8V DC negative ground
Antenna Impedance	50 Ω , nominal
Microphone	500 Ω dynamic element with coiled cord
Speaker	1.82 inch, 8 Ω
Operating Temperature Range	-20°C to +50°C (-4°F to +122°F)
Shock and Vibration	Meets or exceeds EIA standards, RS152B and RS204C
FCC Approvals	Type accepted under part 80 of the Rules; meets Great Lakes Agreement and party boat requirements

Transmitter

Power Output	1 watt or 25 watt (switch selectable)
Power Requirement	1 watt output: 1.0A at 13.8V DC 25 watts output: 4.5A at 13.8V DC
Modulation	FM ± 5 kHz deviation (FCC designator F3E)
Signal-to-Noise	45 dB at 3 kHz
Audio Distortion	Less than 5% with 3 kHz deviation with 1000 Hz modulating frequency
Spurious Supression	-60 dB at 1 watt, -65 dB at 25 watts
Output Power Stabilization	Built-in automatic level control (ALC)
Frequency Range	156 to 158 MHz
Frequency Stability:	± 300 Hz nominal

Receiver

Frequency Range	156 to 163 MHz
Sensitivity	0.25 μ V for 12 dB SINAD 0.35 μ V for 20 dB S/N
Circuit	Dual Conversion Super Heterodyne PLL
Squelch Sensitivity	0.2 μ V Threshold
Spurious Response	60 dB
Adjacent Channel Selectivity	70 dB at ± 25 kHz
Audio Output Power	4.0 watts (10% Distortion) into a 4 Ω load
Power Requirement	0.3A at 13.8V DC squelched 0.8A at 13.8V DC at maximum audio output 1st - 16.9 MHz 2nd - 455 kHz

VHF FM Marine Radiotelephone Channels and Functions (International Channels)

CHANNEL DESIGN	FREQUENCY (MHz)		TYPE OF TRAFFIC	SHIP TO SHIP	SHIP TO SHORE
	TRANSMIT	RECEIVE			
WXO	—	163.275	NOAA Weather	RX Only	RX Only
WX1	—	162.550	NOAA Weather	RX Only	RX Only
WX2	—	162.400	NOAA Weather	RX Only	RX Only
WX3	—	162.475	NOAA Weather	RX Only	RX Only
WX4	—	162.425	NOAA Weather	RX Only	RX Only
WX5	—	162.450	NOAA Weather	RX Only	RX Only
WX6	—	162.500	NOAA Weather	RX Only	RX Only
WX7	—	162.525	NOAA Weather	RX Only	RX Only
WX8	—	161.650	Can. Weather	RX Only	RX Only
WX9	—	161.775	Can. Weather	RX Only	RX Only
01	156.050	160.650	VTs	Yes	Yes
02	156.100	160.700	Port Ops	Yes	Yes
03	156.150	160.750	Port Ops	Yes	Yes
04	156.200	160.800	Port Ops	Yes	Yes
05	156.250	160.850	VTs	Yes	Yes
06	156.300	156.300	Safety	Yes	No
07	156.350	160.950	Com'l	Yes	Yes
08	156.400	156.400	Com'l	Yes	No
09	156.450	156.450	Com'l & Non Com'l	Yes	Yes
10	156.500	156.500	Com'l	Yes	Yes
11	156.550	156.550	Com'l	Yes	Yes
12	156.600	156.600	Port Ops	Yes	Yes
13	156.650	156.650	Navigational	Yes	Yes
14	156.700	156.700	Port Ops	Yes	Yes
15	156.750	156.750	Environmental	Yes	Yes
16	156.800	156.800	Safety Calling	Yes	Yes
17	156.850	156.850	State Control	Yes	Yes
18	156.900	161.500	Com'l	Yes	Yes
19	156.950	161.550	Com'l	Yes	Yes
20	157.000	161.600	Port Ops	Yes	Yes
21	157.050	161.650	Coast Guard	Yes	Yes
22	157.100	161.700	Coast Guard	Yes	Yes
23	157.150	161.750	Coast Guard	Yes	Yes
24	157.200	161.800	Public Corresp	No	Yes
25	157.250	161.850	Public Corresp	No	Yes
26	157.300	161.900	Public Corresp	No	Yes
27	157.350	161.950	Public Corresp	No	Yes
28	157.400	162.000	Public Corresp	No	Yes
60	156.025	160.625			
61	156.075	160.675			
62	156.125	160.725			
63	156.175	160.775			
64	156.225	160.825			
65	156.275	160.875	Port Ops	Yes	Yes
66	156.325	160.925	Port Ops	Yes	Yes
67	156.375	156.375	Com'l	Yes	No
68	156.425	156.425	Non Com'l	Yes	Yes
69	156.475	156.475	Non Com'l	Yes	Yes
70	—	156.525	DSC	No	No
71	156.575	156.575	Non Com'l	Yes	Yes
72	156.625	156.625	Non Com'l	Yes	No
73	156.675	156.675	Port Ops	Yes	Yes
74	156.725	156.725	Port Ops	Yes	Yes
77	156.875	156.875	Port Ops	Yes	No
78	156.925	161.525	Non Com'l	Yes	Yes
79	156.975	161.575	Com'l	Yes	Yes
80	157.025	161.625	Com'l	Yes	Yes
81	157.075	161.675	Coast Guard	Yes	Yes
82	157.125	161.725	US Govt Only	Yes	Yes
83	157.175	161.775	Coast Guard	Yes	Yes
84	157.225	161.825	Public Corresp	No	Yes
85	157.275	161.875	Public Corresp	No	Yes
86	157.325	161.925	Public Corresp	No	Yes
87	157.375	161.975	Public Corresp	No	Yes
88	157.425	162.025	Com'l	Yes	No

VHF FM Marine Radiotelephone Channels and Functions (U.S.A. Channels)

CHANNEL DESIGN	FREQUENCY (MHz)		TYPE OF TRAFFIC	SHIP TO SHIP	SHIP TO SHORE
	TRANSMIT	RECEIVE			
WX0	—	163.275	NOAA Weather	RX Only	RX Only
WX1	—	162.550	NOAA Weather	RX Only	RX Only
WX2	—	162.400	NOAA Weather	RX Only	RX Only
WX3	—	162.475	NOAA Weather	RX Only	RX Only
WX4	—	162.425	NOAA Weather	RX Only	RX Only
WX5	—	162.450	NOAA Weather	RX Only	RX Only
WX6	—	162.500	NOAA Weather	RX Only	RX Only
WX7	—	162.525	NOAA Weather	RX Only	RX Only
WX8	—	161.650	Can. Weather	RX Only	RX Only
WX9	—	161.775	Can. Weather	RX Only	RX Only
01	156.050	156.050	VTs	Yes	Yes
02	156.100	156.100	Port Ops	Yes	Yes
03	156.150	156.150	Port Ops	Yes	Yes
04	156.200	156.200	Port Ops	Yes	Yes
05	156.250	156.250	VTs	Yes	Yes
06	156.300	156.300	Safety	Yes	No
07	156.350	156.350	Com'l	Yes	Yes
08	156.400	156.400	Com'l	Yes	No
09	156.450	156.450	Com'l & Non Com'l	Yes	Yes
10	156.500	156.500	Com'l	Yes	Yes
11	156.550	156.550	Com'l	Yes	Yes
12	156.600	156.600	Port Ops	Yes	Yes
13	156.650	156.650	Navigationl	Yes	Yes
14	156.700	156.700	Port Ops	Yes	Yes
15	—	156.750	Environmental	RX Only	RX Only
16	156.800	156.800	Safety Calling	Yes	Yes
17	156.850	156.850	State Control	Yes	Yes
18	156.900	156.900	Com'l	Yes	Yes
19	156.950	156.950	Com'l	Yes	Yes
20	157.000	161.600	Port Ops	Yes	Yes
21	157.050	157.050	Coast Guard	Yes	Yes
22	157.100	157.100	Coast Guard	Yes	Yes
23	157.150	157.150	Coast Guard	Yes	Yes
24	157.200	161.800	Public Corresp	No	Yes
25	157.250	161.850	Public Corresp	No	Yes
26	157.300	161.900	Public Corresp	No	Yes
27	157.350	161.950	Public Corresp	No	Yes
28	157.400	162.000	Public Corresp	No	Yes
60	156.025	156.025			
61	156.075	156.075			
62	156.125	156.125			
63	156.175	156.175			
64	156.225	156.225			
65	156.275	156.275	Port Ops	Yes	Yes
66	156.325	156.325	Port Ops	Yes	Yes
67	156.375	156.375	Com'l	Yes	No
68	156.425	156.425	Non Com'l	Yes	Yes
69	156.475	156.475	Non Com'l	Yes	Yes
70	—	156.525	DSC	No	No
71	156.575	156.575	Non Com'l	Yes	Yes
72	156.625	156.625	Non Com'l	Yes	No
73	156.675	156.675	Port Ops	Yes	Yes
74	156.725	156.725	Port Ops	Yes	Yes
77	156.875	156.875	Port Ops	Yes	No
78	156.925	156.925	Non Com'l	Yes	Yes
79	156.975	156.975	Com'l	Yes	Yes
80	157.025	157.025	Com'l	Yes	Yes
81	—	157.075	Coast Guard Aux	No	No
82	157.125	157.125	US Govt Only	Yes	Yes
83	—	157.175	Coast Guard Aux	No	No
84	157.225	161.825	Public Corresp	No	Yes
85	157.275	161.875	Public Corresp	No	Yes
86	157.325	161.925	Public Corresp	No	Yes
87	157.375	161.975	Public Corresp	No	Yes
88	157.425	157.425	Com'l	Yes	No

One Year Limited Warranty

WARRANTOR: UNIDEN AMERICA CORPORATION ("Uniden")

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**Uniden America Corporation
Parts and Service Division
4700 Amon Carter Blvd.
Ft. Worth, TX 76155
(800) 297-1023, 8 AM to 5 PM Central, Monday through Friday**

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