

Uniden®



MHS 350 HANDHELD TWO-WAY
VHF MARINE RADIO

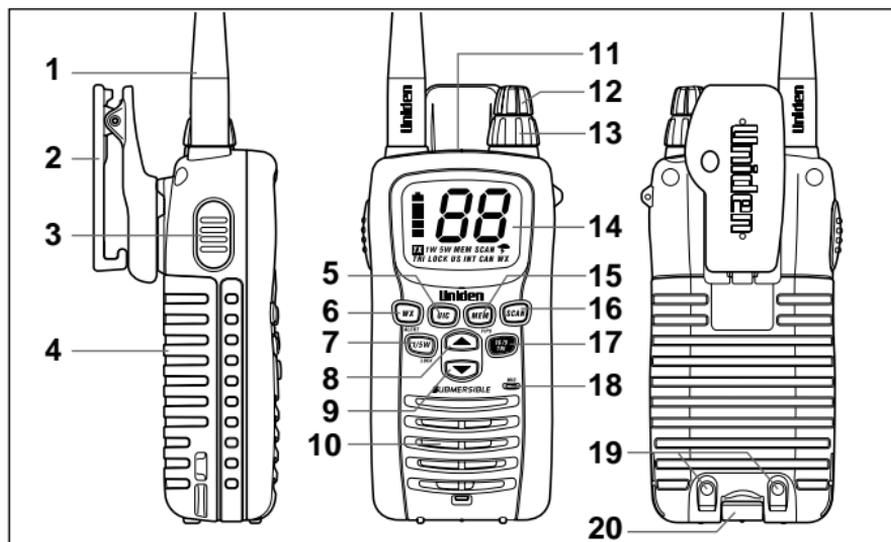
OWNER'S MANUAL

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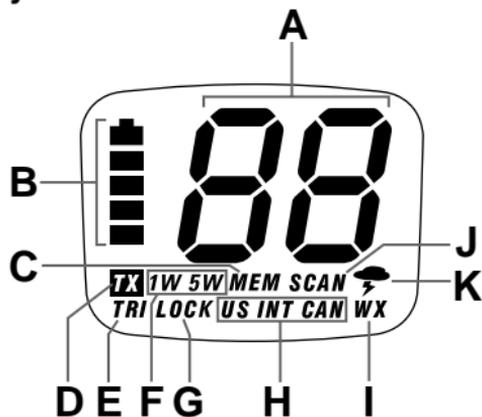
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Controls and Indicators



- 1 Antenna
- 2 Belt Clip
- 3 PTT (Push to Talk) Key
- 4 Battery
- 5 USA/International/Canadian Button (**UIC**)
- 6 WX Mode/Weather Alert Button (**WX/ALERT**)
- 7 TX Power/Lock Button (**1/5W/LOCK**)
- 8 Channel Up Button (**▲**)
- 9 Channel Down Button (**▼**)
- 10 Speaker
- 11 Speaker MIC (Optional) Jack
- 12 On off/Volume Knob (**VOL**)
- 13 Squelch Knob (**SQ**)
- 14 LCD Display
- 15 Memory/FIPS Button (**MEM/FIPS**)
- 16 Scan Button (**SCAN**)
- 17 16/9 - Triple Watch Button (**16/9/TRI**)
- 18 Microphone
- 19 Charge Contacts
- 20 Battery Release Clip

LCD Display



- A Channel Number Display
- B Battery Indicator
- C Memory Indicator
- D Transmit Indicator
- E Triple Watch Indicator
- F TX Power Indicator
- G Key Lock Indicator
- H USA/International/Canadian (**US/INT/CAN**) Indicator
- I Weather Mode Indicator
- J Scan Indicator
- K Weather Alert Indicator

Warning!

- The **MHS350** is waterproof only when both the antenna and the battery are properly attached.
- Do not operate the transmitter of any radio equipment unless all the Radio Frequency (RF) connectors are secure and any open connectors are properly terminated.
- Do not operate the transmitter of any radio equipment near electrical blasting caps or in an explosive atmosphere.
- Do not let children operate any transmitter-equipped radio equipment without proper supervision.
- Have your radio equipment serviced by a qualified technician.
- Do not operate the transmitter of any radio equipment with the antenna touching or close to the eyes, face, or exposed body parts.

Ni-MH Battery Pack Warning

- This equipment contains a Ni-MH Battery Pack.
- The Ni-MH Battery Pack contained in this equipment may explode if disposed of in a fire.
- Do not short-circuit the Battery Pack.
- Do not charge the Ni-MH Battery Pack used in this equipment with any Adapter other than the one designed to charge this Battery Pack. Using another Adapter may damage the Battery Pack or cause the Battery Pack to explode.
- Ni-MH batteries must be disposed of properly.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Introduction

The **MHS350** is a waterproof, portable two-way VHF transceiver. It is compact, lightweight, rugged and fits easily in your hand. This handheld VHF marine radio will give you consistent, outstanding performance in virtually all conditions and situations. To ensure that you get the most from the **MHS350's** features, please read this operating guide carefully before using the unit.

Features

- Waterproof (meets JIS7 waterproof specifications)
- Triple Watch Mode
- Programmable Memory
- One-Touch Channel 16/9
- 10 Weather Channels
- Weather Alert
- NWR-SAME Alert
- Programmable FIPS Code
- Memory Scan
- USA, International and Canadian Channels
- Dual Drop-in Charging Cradle
- Rechargeable Ni-MH Battery Pack (2 battery packs included)
- Battery Save Operation
- Key Lock
- Back-Lit Keys and Display
- Belt Clip
- Wrist Strap
- TX Power 1W/5W

Technical Support and Service

Your Uniden dealer can provide you with sales assistance and information. If your marine radio does not perform properly, follow the troubleshooting tips in the back of this operating guide. For technical support contact Uniden at 1-800-586-0409. The radio contains no user-serviceable parts. Unauthorized adjustment will void the warranty and may cause illegal radio operation. Be sure that a qualified technician services your radio equipment.

Caution: Changes or modifications to this product not expressly approved by Uniden, or operation of this product in any way other than as detailed by this Operating Guide, can void your authority to operate this product.

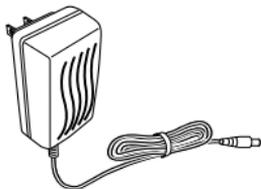
Maritime Radio Services Operation

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 in these frequencies without proper authorization is strictly forbidden. For frequencies/channels that are currently for use in the world see page 21~26. Please contact the FCC Call Center at 1-888-CALL-FCC for any additional channel information.

Included in Your Package



MHS350



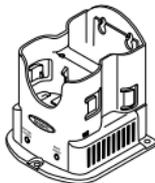
AC Adapter
(AD-0007)



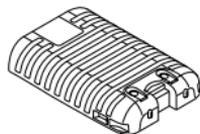
Antenna
(HH9408)



DC Adapter



Charging Cradle



Rechargeable Battery x2
(BP350)



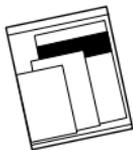
Beltclip



Wrist Strap



Mounting Screws



Reference Guide/
Printed Material

If any of these items are missing from the box, contact your Uniden Dealer or the Uniden Parts Department at (800)-554-3988.

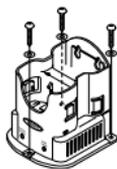
Getting Started

Mounting the Charging Cradle

Mount the Charging Cradle to either a counter or wall.

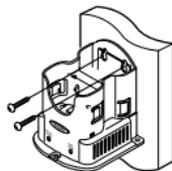
To counter:

Attach the Charging Cradle using the mounting screws and washers as follows.



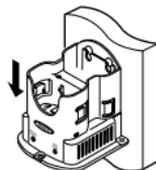
To wall:

Apply the Charging Cradle to the wall and insert the two mounting screws into the larger holes of the Charging Cradle.



Push down the Charging Cradle until it is firmly seated.

When you remove the Charging Cradle from the wall, loosen the screws and push the Charging Cradle up.



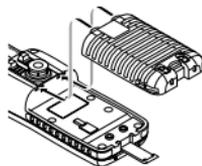
Attaching the Antenna

Apply the antenna to the radio as shown. Be sure the antenna is firmly seated.

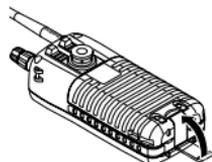


Attaching the Rechargeable Battery Pack

1 Place the rechargeable battery pack onto the back of the radio. It will only fit in one way.

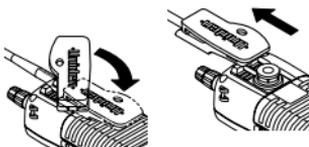


2 Snap the battery release clip until it clicks. Be sure the battery pack fits tightly against the body.



Attaching the Beltclip

- 1** Hold the beltclip in the direction as illustrated.
- 2** Apply it to the hanger piece on the back of the radio. Then slide it up.
- 3** When you hear a click, the beltclip is firmly attached.
- 4** To take the beltclip off the radio, turn it upside down and slide it up.

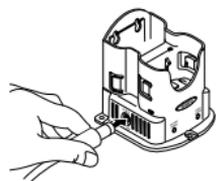


Charging the Battery Pack

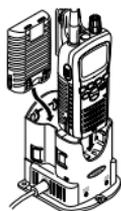
Your marine radio is powered by a specially designed Ni-MH battery pack.

- Before operating the **MHS350**, charge the Ni-MH battery pack for 4 hours ***without interruption*** with the Adapter.

- 1** Plug one end of the AC adapter into the wall outlet and the other end into the Adapter jack on the side of the Charging Cradle.



- 2** Make sure your radio is OFF, and place the radio in the front of the Charging Cradle. You can also charge another battery at the same time. Place it in the back of the Charging Cradle.



- 3** Charge the battery for about 4 hours.

- The charger won't overcharge the battery pack. When the LED on the Charging Cradle turn off, charging is completed.
- **The radio will not charge the battery while on and receiving incoming voice traffic, and while transmitting.**
- When you mount the Charging Cradle on your boat, use the DC adapter instead.
- The jack is for charging only. If the battery level is low, the radio needs to charge before use.
- If the LED on the charging cradle flashes, the battery might be broken. Purchase Uniden BP350 battery (see page 29).



Operation

- See “Controls and Indicators” (page 2) for button, knob, and key positions.
- When you turn On your **MHS350** for the first time after purchasing, it is automatically tuned to channel 16, the United States Coast Guard frequency for distress, safety, and calling. From the second time, the radio turned to the channel which was selected before you turn off the radio.
- When you press any button (except **PTT**), a short tone sounds.

Turning On the Unit and Setting Squelch

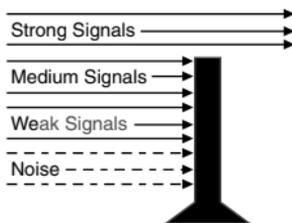
1 Before you turn On the unit, turn the squelch (**SQ**) knob fully counterclockwise.

2 Then, turn On the unit by turning the Volume/Power (**VOL**) knob clockwise until you hear a hissing sound.

3 Turn the **SQ** knob clockwise, just until the hissing sound stops. Use the knob to adjust to the desired squelch level. Think of the squelch control as a frequency gate which controls access to weak or strong signals depending on its setting.

- To listen to a weak or distant station, turn the knob counterclockwise. If reception is poor, turn it clockwise to cut out weak transmissions.
- If the squelch control is adjusted so that you continually hear a hissing sound, the unit will not scan properly.

4 To turn Off the unit, turn the **VOL** knob counterclockwise until it clicks.



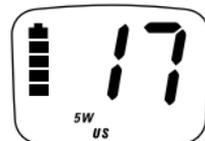
Selecting a Channel

1 Turn On your radio.



↓ [UP]

2 To select a higher channel, press the ▲ button.



↓ [DOWN]

3 To select a lower channel, press the ▼ button.

- To change the channel continuously, press and hold the ▲ or ▼ button for more than 1 second.



One-touch Channel 16/9/TRI

Example: While you are monitoring channel 20, you want to check channel 16 or channel 9.

1 You are now on channel 20.



2 To monitor channel 16, press the **16/9/TRI** button.



3 To monitor channel 9, press the **16/9/TRI** button again.

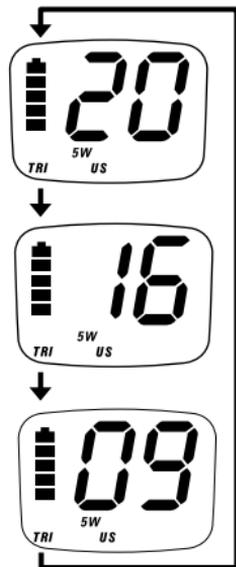


4 To return to channel 20, press the **16/9/TRI** button again.

Triple Watch

Triple Watch mode monitors channels 16 and 9 for a signal while you listen to the currently selected channel. The marine radio checks channel 16 and 9 for activity every 2 seconds.

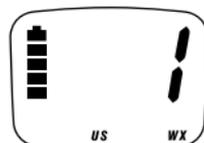
- 1** To select Triple Watch mode, press and hold the **16/9/TRI** button for 2 seconds. A double confirmation tone sounds and **TRI** appears on the display.
- 2** To exit from Triple Watch, press and hold the **16/9/TRI** button for 2 seconds. A double confirmation tone sounds and **TRI** disappears.
 - While in Triple Watch mode, you can change the currently selected channel using the **▲** or **▼** button.
 - A momentary press of the **16/9/TRI** button interrupts Triple Watch mode and remains on 16, or on channel 9 if you press once more. To return to the Triple Watch mode, simply press the button again.



Monitoring Weather Channels

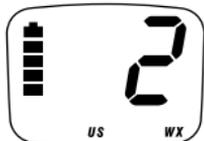
The **MHS350** has 10 preprogrammed emergency/weather channel frequencies, represented by 0 through 9.

- 1** To listen to the emergency/weather channels in your area, press the **WX/ALERT** button. **WX** appears on the display.



↓ [UP]

- 2** To move up, press the ▲ button.



↓ [DOWN]

- 3** To move down, press the ▼ button.



- 4** To exit, press the **WX/ALERT** button. **WX** disappears from the display.

- To change the channel continuously, press and hold the ▲ or ▼ button for more than 1 second.

Emergency/Weather Alert

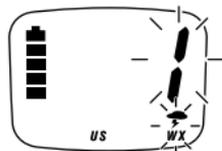
Emergency/Weather Alert allows your **MHS350** to function as a severe weather warning radio and will also alert you to any local or national emergencies. If the NOAA issues warning while this feature is turned On, the radio sounds an alert tone. You will then hear the emergency/weather broadcast. You can set this feature on both marine channel or weather channel.

1 To use Emergency/Weather Alert, select the emergency/weather channel in your area (see page 14).

2 Press and hold the **WX/ALERT** button for 2 seconds. A double confirmation tone sounds and  appears.



3 When the unit receives a warning signal, it beeps for 5 seconds.  and the channel number blinks.



4 To turn Off Emergency/Weather Alert, press and hold the **WX/ALERT** button for 2 seconds. A double confirmation tone sounds.

- When Emergency/Weather Alert is activated, the highest priority is given this function. If the unit is in Scan, Triple Watch, or any other marine channels, it checks the weather alert signals every 7 seconds and switches to the warning receive mode automatically.

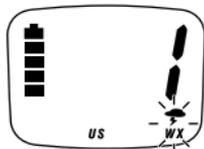
SAME Alert

SAME (Specific Area Message Encoding) alert function as a severe weather and emergency warning like Emergency/Weather alert (see page 15). But SAME allows you to receive, interpret, and display the information about the code so you can determine if the emergency might affect your area. This can be set only on weather channel.

- 1 Press the **WX/ALERT** button, then press and hold the **WX/ALERT** button for 2 seconds. A double confirmation tone sounds, and you can see **WX** and  indicators.



- 2 When the unit receives a warning signal, **WX** and  blinks. The warning level and the channel number appears alternately. Also you hear an alert tone corresponding to the alert level (There are 4 levels; A1-Warning, A2-Watch, A3-Statement and A4-Test).



- 3 To turn Off SAME Alert, press and hold the **WX/ALERT** button for two seconds.

FIPS Code

The 6-digit Federal Information Processing System (FIPS) code was established by the National Weather Service (NWS) identifies geographic areas in the United States. FIPS code allows you to receive only the SAME alert occurring in a particular area. To obtain the FIPS code for a particular area, contact the NWS toll free at 1-888-NWR-SAME (1-888-697-7263). Or visit their website: <http://www.nws.noaa.gov/nwr/indexnw.htm>. A list of event coded are located on page 27.

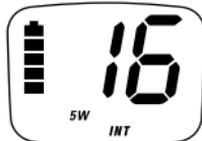
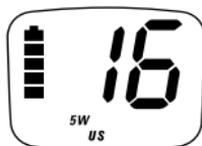
To store the FIPS code:

- 1 Press and hold the **MEM/FIPS** key for 2 seconds.
The radio enters the registration mode.
- 2 Select the location number from 01 to 15 by pressing the ▲ or ▼ button.
- 3 Press the **MEM/FIPS** button.
- 4 Now enter the FIPS code.
Press the ▲ or ▼ button to select the number from 1 to 9. The number will be entered when **MEM/FIPS** is pressed, and the blinking digit moves to the right. When you enter the last digit, the confirmation screen appears.



USA, International and Canadian Channels

- 1 The **MHS350** is initially set for USA marine channels when you turn On your radio.
- 2 To listen to international marine channels, press the **UIC** button once.
INT appears on the display.
- 3 To listen to Canadian marine channels, press the **UIC** button again.
CAN appears on the display.
- 4 The radio will keep the last mode setting that was selected when turned back On.
 - For USA, International and Canadian marine channels and functions, refer to the tables starting on page 21.



Programming a Channel into Memory

Before using the scanning feature, you have to program channels into memory.

- 1 Select the channel to enter into memory by pressing the ▲ or ▼ button.
- 2 Press the **MEM/FIPS** button to store the channel. **MEM** appears on the display.



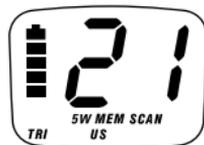
Deleting a Channel from Memory

- 1 Select the channel to delete from memory by pressing the ▲ or ▼ button.
- 2 Press the **MEM/FIPS** button. **MEM** disappears from the display.



Scanning

- 1 To begin scanning the programmed channels, press the **SCAN** button. **SCAN** and **TRI** appear on the display.
- 2 To stop scanning, press the **SCAN** button once more. **SCAN** and **TRI** disappear from the display.



- Scanning starts from the lowest to highest channel and stops when it finds an active channel. It remains on that channel until the transmission ends, then resumes scanning after a 2 second delay period.
- When in the scan mode, the unit automatically activates the Triple Watch feature. To deactivate Triple Watch from the scanning mode, press and hold the **16/9/TRI** button for 2 seconds. **TRI** disappears from the display.

Transmitting

- 1 Transmission power can be set to either 5W or 1W.

Press the **1/5W/LOCK** button to make the change, then the 5W or the 1W indicator on the display changes accordingly.



- 2 To transmit, press and hold the **PTT** (push-to-talk) key. TX appears on the display.
- 3 To return to receive, release the **PTT** key. TX disappears from the display.
 - If the **PTT** key is pressed for more than 5 minutes, TX starts blinking and the transmission ends. The TX time out tone will sound until the **PTT** key is released.
 - If the battery indicator level is 0 and the **PTT** key is pressed, the radio will not transmit and the TX icon and the channel number start blinking. (Refer to the description of the Battery Indicator on the next page.)

Lighted Keys and Display

To light the display, press any key excluding the **PTT** key.

- If you press any button other than the **PTT** key while the display and keypad are illuminated, it remains illuminated for another 5 seconds.

Turning Off and Reactivating the Key Beep

Your radio emits a beep each time one of the buttons (except for the **PTT** key) is pressed.

To turn off or reactivate the Key beep:

Turn the radio On again while pressing and holding the ▲ or ▼ buttons.

Battery Indicator

When the unit is On, battery power is always indicated on the display. There are 6 levels from 5 to 0.

Level 5: The battery is fully charged.



Level 0: The radio cannot transmit. If the battery level drops to level 0 during transmitting, the transmission will be canceled.



Almost Empty: **Lo** appears on the display. None of the keys are usable, and the radio will not transmit or receive. Charge the radio or install a new battery immediately.



Key Lock

To prevent accidental entries, you can lock the keypad.

- 1** Press and hold the **1/5W/LOCK** button for 2 seconds. A double confirmation tone sounds. **LOCK** appears on the display.
 - 2** To unlock the keypad, press and hold the **1/5W/LOCK** button again for 2 seconds. A double confirmation tone sounds. **LOCK** disappears from the display.
- You can also unlock the keypad by turning the radio Off and then On again.

Marine Channels - USA

Channel Desig	Frequency (MHz)		Traffic Type	Note	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	Com'l, Port Ops, VTS		Yes	Yes
02				INH		
03	156.150	156.150	Com'l, Port Ops, VTS		Yes	Yes
04				INH		
05	156.250	156.250	Port Ops, 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, VTS, SMS		Yes	Yes
12	156.600	156.600	Port Ops, VTS, SMS		Yes	Yes
13	156.650	156.650	Navigational	1W	Yes	No
14	156.700	156.700	Port Ops		Yes	Yes
15	RX Only	156.750	Environmental			RX Only
16	156.800	156.800	Distress, 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	157.000	Port Ops		Yes	Yes
21	157.050	157.050	U.S. Govt Only		Yes	Yes
22	157.100	157.100	Coast Guard		Yes	Yes
23	157.150	157.150	U.S. Govt Only		Yes	Yes
24	157.200	161.800	Public Corresp.	DUP	No	Yes

Channel Desig	Frequency (MHz)		Traffic Type	Note	Ship to Ship	Ship to Shore
	Transmit	Receive				
25	157.250	161.850	Public Corresp.	DUP	No	Yes
26	157.300	161.900	Public Corresp.	DUP	No	Yes
27	157.350	161.950	Public Corresp.	DUP	No	Yes
28	157.400	162.000	Public Corresp.	DUP	No	Yes
60				INH		
61	156.075	156.075				
62				INH		
63	156.175	156.175				
64	156.225	156.225				
65	156.275	156.275	Port Ops		No	Yes
66	156.325	156.325	Port Ops		Yes	Yes
67	156.375	156.375	Com'l	1W	Yes	No
68	156.425	156.425	Non Com'l		Yes	Yes
69	156.475	156.475	Non Com'l		Yes	Yes
70	RX Only	156.525				
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
75	156.775	156.775	Port Ops	1W	Yes	Yes
76	156.825	156.825	Port Ops	1W	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	157.075	U.S. Govt Only		Yes	Yes
82	157.125	157.125	U.S. Govt Only		Yes	Yes
83	157.175	157.175	U.S. Govt Only		Yes	Yes
84	157.225	161.825	Public Corresp.	DUP	No	Yes
85	157.275	161.875	Public Corresp.	DUP	No	Yes
86	157.325	161.925	Public Corresp.	DUP	No	Yes
87	157.375	161.975	Public Corresp.	DUP	No	Yes
88	157.425	157.425	Com'l		Yes	No

Marine Channels - International

Channel Desig	Frequency (MHz)		Traffic Type	Ship to Ship	Ship to Shore	Permanent Scan List
	Transmit	Receive				
WX0	—	163.275	NOAA Weather	RX Only	RX Only	Weather
WX1	—	162.550	NOAA Weather	RX Only	RX Only	Weather
WX2	—	162.400	NOAA Weather	RX Only	RX Only	Weather
WX3	—	162.475	NOAA Weather	RX Only	RX Only	Weather
WX4	—	162.425	NOAA Weather	RX Only	RX Only	Weather
WX5	—	162.450	NOAA Weather	RX Only	RX Only	Weather
WX6	—	162.500	NOAA Weather	RX Only	RX Only	Weather
WX7	—	162.525	NOAA Weather	RX Only	RX Only	Weather
WX8	—	161.650	Can. Weather	RX Only	RX Only	Weather
WX9	—	161.775	Can. Weather	RX Only	RX Only	Weather
01	156.050	160.650	Duplex	Yes	Yes	
02	156.100	160.700	Duplex	Yes	Yes	
03	156.150	160.750	Duplex	Yes	Yes	
04	156.200	160.800	Duplex	Yes	Yes	
05	156.250	160.850	Duplex	Yes	Yes	
06	156.300	156.300		Yes	No	
07	156.350	160.950	Duplex	Yes	Yes	
08	156.400	156.400		Yes	No	
09	156.450	156.450		Yes	Yes	Fish
10	156.500	156.500		Yes	Yes	
11	156.550	156.550		Yes	Yes	
12	156.600	156.600		Yes	Yes	
13	156.650	156.650		Yes	Yes	
14	156.700	156.700		Yes	Yes	
15	156.750	156.750		Yes	Yes	Environmental
16	156.800	156.800		Yes	Yes	
17	156.850	156.850		Yes	Yes	
18	156.900	161.500	Duplex	Yes	Yes	
19	156.950	161.550	Duplex	Yes	Yes	
20	157.000	161.600	Duplex	Yes	Yes	
21	157.050	161.650	Duplex	Yes	Yes	
22	157.100	161.700	Duplex	Yes	Yes	
23	157.150	161.750	Duplex	Yes	Yes	
24	157.200	161.800	Duplex	No	Yes	Busy Tel.

Channel Desig	Frequency (MHz)		Traffic Type	Ship to Ship	Ship to Shore	Permanent Scan List
	Transmit	Receive				
25	157.250	161.850	Duplex	No	Yes	Busy Tel.
26	157.300	161.900	Duplex	No	Yes	Busy Tel.
27	157.350	161.950	Duplex	No	Yes	Busy Tel.
28	157.400	162.000	Duplex	No	Yes	Busy Tel.
60	156.025	160.625	Duplex			
61	156.075	160.675	Duplex			
62	156.125	160.725	Duplex			
63	156.175	160.775	Duplex			
64	156.225	160.825	Duplex			
65	156.275	160.875	Duplex	Yes	Yes	
66	156.325	160.925	Duplex	Yes	Yes	
67	156.375	156.375		Yes	No	
68	156.425	156.425		Yes	Yes	Fish
69	156.475	156.475		Yes	Yes	Fish
70	RX Only	156.525				
71	156.575	156.575		Yes	Yes	Fish
72	156.625	156.625		Yes	No	Fish
73	156.675	156.675		Yes	Yes	
74	156.725	156.725		Yes	Yes	
75	156.775	156.775	Port Ops, 1W	Yes	Yes	
76	156.825	156.825	Port Ops, 1W	Yes	Yes	
77	156.875	156.875		Yes	No	
78	156.925	161.525	Duplex	Yes	Yes	
79	156.975	161.575	Duplex	Yes	Yes	
80	157.025	161.625	Duplex	Yes	Yes	
81	157.075	161.675	Duplex	Yes	Yes	Coast Guard
82	157.125	161.725	Duplex	Yes	Yes	
83	157.175	161.775	Duplex	Yes	Yes	Coast Guard
84	157.225	161.825	Duplex	No	Yes	Busy Tel.
85	157.275	161.875	Duplex	No	Yes	Busy Tel.
86	157.325	161.925	Duplex	No	Yes	Busy Tel.
87	157.375	161.975	Duplex	No	Yes	Busy Tel.
88	157.425	162.025	Duplex	Yes	No	Busy Tel.

Marine Channels - Canada

Channel Desig	Frequency (MHz)		Traffic Type	Ship to Ship	Ship to Shore	Permanent Scan List
	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	160.650	Duplex	Yes	Yes	
02	156.100	160.700	Duplex	Yes	Yes	
03	156.150	160.750	Duplex	Yes	Yes	
04	156.200	156.200		Yes	Yes	
05	156.250	156.250		Yes	Yes	
06	156.300	156.300		Yes	No	
07	156.350	156.350		Yes	Yes	
08	156.400	156.400		Yes	No	
09	156.450	156.450		Yes	Yes	Fish
10	156.500	156.500		Yes	Yes	
11	156.550	156.550		Yes	Yes	
12	156.600	156.600		Yes	Yes	
13	156.650	156.650	1W	Yes	Yes	
14	156.700	156.700		Yes	Yes	
15	156.750	156.750	1W	Yes	Yes	Environmental
16	156.800	156.800		Yes	Yes	
17	156.850	156.850	1W	Yes	Yes	
18	156.900	156.900		Yes	Yes	
19	156.950	156.950		Yes	Yes	
20	157.000	161.600	Duplex, 1W	Yes	Yes	
21	157.050	157.050		Yes	Yes	
22	157.100	157.100		Yes	Yes	
23	157.150	161.750	Duplex	Yes	Yes	
24	157.200	161.800	Duplex	No	Yes	Busy Tel.

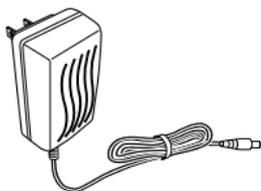
Channel Desig	Frequency (MHz)		Traffic Type	Ship to Ship	Ship to Shore	Permanent Scan List
	Transmit	Receive				
25	157.250	161.850	Duplex	No	Yes	Busy Tel.
26	157.300	161.900	Duplex	No	Yes	Busy Tel.
27	157.350	161.950	Duplex	No	Yes	Busy Tel.
28	157.400	162.000	Duplex	No	Yes	Busy Tel.
60	156.025	160.625	Duplex			
61	156.075	156.075				
62	156.125	156.125				
63			INH			
64	156.225	156.225				
65	156.275	156.275		Yes	Yes	
66	156.325	156.325		Yes	Yes	
67	156.375	156.375		Yes	No	
68	156.425	156.425		Yes	Yes	Fish
69	156.475	156.475		Yes	Yes	Fish
70	RX Only	156.525				
71	156.575	156.575		Yes	Yes	Fish
72	156.625	156.625		Yes	No	Fish
73	156.675	156.675		Yes	Yes	
74	156.725	156.725		Yes	Yes	
75	156.775	156.775	Port Ops, 1W	Yes	Yes	
76	156.825	156.825	Port Ops, 1W	Yes	Yes	
77	156.875	156.875		Yes	No	
78	156.925	156.925		Yes	Yes	
79	156.975	156.975		Yes	Yes	
80	157.025	157.025		Yes	Yes	
81	157.075	157.075		Yes	Yes	Coast Guard
82	157.125	157.125		Yes	Yes	
83	157.175	157.175		Yes	Yes	Coast Guard
84	157.225	161.825	Duplex	No	Yes	Busy Tel.
85	157.275	161.875	Duplex	No	Yes	Busy Tel.
86	157.325	161.925	Duplex	No	Yes	Busy Tel.
87	157.375	161.975	Duplex	No	Yes	Busy Tel.
88	157.425	162.025	Duplex	Yes	No	Busy Tel.

NWR-SAME EVENT CODE

Event Code	Standard	EVENT LEVEL (SirenType)				
		Warning (A1)	Watch (A2)	Statement (A3)	Test (A4)	Ignore
Emergency Action Notification	EAN	○				
Emergency Action Termination	EAT	○				
National Information Center	NIC	○				
Tornado Warning #	TOW (or TOR)	○				
Severe Thunderstorm Warning #	SVW (or SVR)	○				
Flash Flood Warning	FFW	○				
Flood Warning	FLW	○				
Winter Storm Warning	WSW	○				
Blizzard Warning	BZW	○				
High Wind/Dust Storm Warning	HWW	○				
Radiological Hazard Warning	RHW	○				
Civil Danger Warning	CDW	○				
Local Area Emergency	LAE	○				
Hazardous Material Warning	HMW	○				
Civil Emergency Message	CEM	○				
Immediate Evacuation Warning	IEW	○				
Immediate Evacuation Notice	EVI	○				
Law Enforcement Warning	LEW	○				
Fire Warning	FRW	○				
Hurricane/Tropical Storm Warning	HUW	○				
Tsunami Warning	TSW	○				
Coastal Flood Warning	CFW	○				
Special Marine Warning	SMW	○				
Avalanche Warning	AVW	○				
Volcano Warning	VOW	○				
Shelter In Place Warning	SPW	○				
Local Area Emergency	LAE	○				
National Hazard Warning	NHW	○				
Unrecognizable PIL	ACE	○				
Child Abduction Emergency	CAE	○				
Dam Break Warning	DBW	○				
Dust Storm Warning	DSW	○				
Earthquake Warning	EQW	○				
Nuclear Power Plant Warning	NPW	○ (&NPP)				
Tropical Storm Warning	TRW	○				

Event Code	Standard	EVENT LEVEL (SirenType)				
		Warning (A1)	Watch (A2)	Statement (A3)	Test (A4)	Ignore
911 Telephone Outage Emergency	TOE	○				
Civil Danger Watch	CDA		○			
Radiological Hazard Watch	RHA		○			
Hazardous Material Watch	HMA		○			
Winter Storm Watch	WSA		○			
High Wind/Dust Storm Watch	HWA		○			
Tornado Watch	TOA		○			
Severe Thunderstorm Watch	SVA		○			
Flash Flood Watch	FFA		○			
Flood Watch	FLA		○			
Hurricane/Tropical Storm Watch	HUA		○			
Tsunami Watch	TSA		○			
Coastal Flood Watch	CFA		○			
Avalanche Watch	AVA		○			
Volcano Watch	VOA		○			
Dust Storm Watch	DSA		○			
Tropical Storm Watch	TRA		○			
Severe Weather Statement	SVS			○		
Special Weather Statement	SPS			○		
Flash Flood Statement	FFS			○		
Flood Statement	FLS			○		
Hurricane Statement	HLS			○		
Missing Child Statement	MIS			○		
School Closing Statement	SCS			○		
National Periodic Test	NPT				○	
Required Monthly Test	RMT				○	
Required Weekly Test	RWT				○	
System Demonstration/Practice	DMO				○	
Nuclear Power Plant Test Message	NPM				○	
Administrative Message	ADR					○
Network Message Notification	NMN					○
Transmitter Backup On	TXB					○
Transmitter Primary On	TXP					○
Transmitter Radiate Off	TXF					○
Transmitter Radiate On	TXO					○

Optional Parts and Replacement Accessories



AC Adapter
(AD-0007)



Mounting Screws



Antenna
(HH9408)



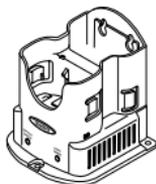
Wrist Strap



DC Adapter



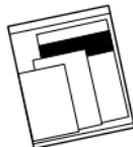
Ni-MH Battery
(BP350)



Charging Cradle



Beltclip



Reference Guide/
Printed Material

Uniden Parts Department

(800)-554-3988

We can also be reached on the web at
www.uniden.com

Specifications

General

Channels	Transmit and Receive	All US/International/ Canada Channel
	Weather	10
Freq. Control		PLL
Freq. Tol.	Transmit	1.5 PPM (at 25°C)
	Receive	1.5 PPM (at 25°C)
Oper. Temp.		-4°F (-20°C) to +122°F(+50°C)
Antenna		Flexible Whip
Microphone		Built-in Electret type
Display		Liquid Crystal Display
Speaker		8Ω 1 Watt
Power Source		Rechargeable Ni-MH Battery Pack 7.2V 1100 mAh
Size (without antenna)		5.8 (H) x 2.7 (W) x 1.68 (D) inch 148 (H) x 67 (W) x 42 (D) mm
Weight (w/battery & antenna)		15.2 oz (430g)

Transmitter

Frequency Range	156~158 MHz
Frequency Stability	±10 PPM
Power Output	1W & 5W
Spurious Emissions	-60 dBc (5W)
Current Drain	700mA (1W), 1400mA (5W)

Receiver

Receiver Type	Double Conversion Super Heterodyne Phase Locked Loop system for Local Oscillator
Frequency Range	156~164 MHz
Sensitivity	0.35μV for 12dB SINAD
Squelch Sensitivity	Threshold 0.25μV
Audio	±6 dB 500 to 2000Hz
Frequency Response	
Adjacent Channel	60 dB @ ±25 kHz
Selectivity	
Hum & Noise Ratio	40 dB
Audio Output Power	0.5 W @ 10 % THD
Current Drain	Squelched 45mA Max. Audio 180mA

Specifications shown are typical and subject to change without notice.

Troubleshooting

■ Not enough range

Cause: Line of sight blocked

⇒ Increase antenna height.

■ Will not transmit on 5 watt range but will transmit on the 1 watt range.

Cause: Low voltage

⇒ Recharge or replace the batteries.

■ Will not transmit while charging.

Cause: Low voltage

⇒ The radio is not designed to transmit while charging.

DC or AC adapter does not supply enough power for transmitting.

■ Battery will not charge.

Cause: Low voltage

⇒ Do not to transmit while charging. The adapter does not supply enough power for transmitting.

FCC RF EXPOSURE INFORMATION

WARNING! Read this information before using the radio

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

- Never allow children to operate the radio without adult supervision and the knowledge of the following guidelines.

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

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

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

Body-worn Operation

This device was tested for typical body-worn operations using the supplied belt-clip. To maintain compliance with FCC RF exposure requirements, body-worn operations are restricted to the supplied belt-clip.

For hand-held operation, the radio should be held 1 inch from the user's face. The use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements and should be avoided. For more information about RF exposure, please visit the FCC website at www.fcc.gov.

- When using an external speaker microphone, **USE ONLY THE UNIDEN MODEL HHVTA07 (black) or HHVTAW07 (white)**. Use of any other accessory for this purpose may invalidate your authority to operate this device.

Three-Year Limited Warranty

Important! Evidence of original purchase is required for warranty service.

WARRANTOR: Uniden

ELEMENTS OF WARRANTY: Uniden warrants for three years, to the original retail owner, this Product excluding Ni-MH battery pack to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below. Uniden warrants for 12 months, to the original retail owner, the Ni-MH battery pack to be free from defects in material 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 (12 months for the Ni-MH battery pack) 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 Operation 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). The Product should include all parts and accessories originally packaged with the Product. 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 to warrantor at:

Uniden America Corporation
Parts and Service Division
4700 Amon Carter Blvd.
Ft Worth, TX 76155
(800) 235-3874

Thank you for purchasing a Uniden Marine Radio.

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www.uniden.com

FCC WANTS YOU TO KNOW

Changes or modifications to this product not expressly proved by Uniden, or operation of this product in any way other than as detailed by the owner's manual, could void your authority to operate this product.

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