

# Uniden®

## **MHS050** **Handheld VHF Marine Transceiver**

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# OWNER'S MANUAL

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# Warning

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**NOTE**

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.

## Floating/Waterproof: JIS8

Uniden's MHS050 radio is designed to meet the water proofing standard of JIS8 and will float in water.

This Means: Protected against the effects of continuous immersion in water. The MHS050 can withstand immersion in water up to 1.5m depth for 1hr. Note this is not suitable for scuba diving.



**NOTE**

The MHS050 will only meet this rating if fully assembled and all rubber seals are well maintained and correctly fitted. This means that the carabiner clip is not connected and the battery cover securely fastened.

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



**NOTE**

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

## 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 Adaptor other than the one designed to charge this Battery Pack. Using another Adaptor may damage the Battery Pack or cause the Battery Pack to explode.
- Ni-MH batteries must be disposed of properly.

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# Introduction

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The MHS050 is a floating, 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 MHS050's features, please read this operating guide carefully before using the unit.

## Features

- International Marine Channels
- Built-in precision matched Antenna
- Floating / Waterproof to JIS8\*
- Carabiner Clip
- Emergency 16CH / 09CH mode
- Battery Level Display
- Memory Scan
- Triple Watch
- TX Power Select
- Channel Select
- Volume Select
- Audio Monitor (Fixed Squelch)
- Key Lock On/Off
- Battery Save

\*Protected against the effects of continuous immersion in water. The MHS050 can withstand immersion in water up to 1.5m depth for 1hr. Note this is not suitable for scuba diving.

# Included in your Package

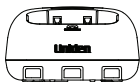
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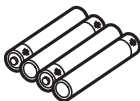
MHS050\*



AC Adapter  
(AAD-050S(M))\*



Drop-in Charger  
(Single charger shown)  
(DTMHS1)\*\*



NiMH Battery Pack  
(BP38)\*



Beltclip\*



Carabiner Clip\*



Owner's Manual

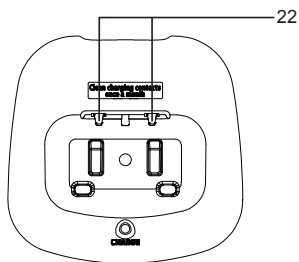
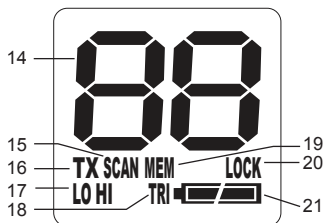
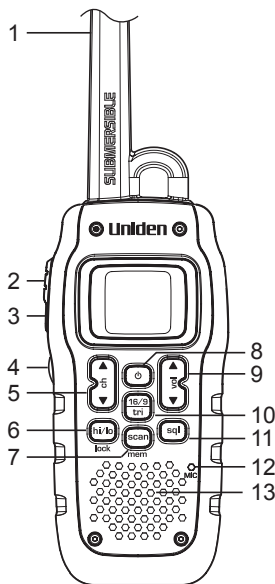
\* MHS050 (x1), MHS050-2 (x2)

\*\* MHS050: DTMHS1, MH050-2: DTMHS2



If any of these items are missing from the box, contact your place of purchase, immediately.

# Controls and Indicators



(single charger shown)

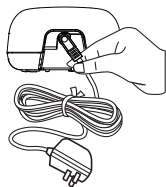
- |    |                                      |    |                         |
|----|--------------------------------------|----|-------------------------|
| 1  | Antenna                              | 12 | Microphone              |
| 2  | PTT (Push-To-Talk) Button            | 13 | Speaker                 |
| 3  | Power Boost Button                   | 14 | Channel Indicator       |
| 4  | Monitor Button                       | 15 | Scan Indicator          |
| 5  | Channel Up/Down Key                  | 16 | TX Indicator            |
| 6  | Hi/Lo (Transmit Power) / Keylock Key | 17 | TX Power Indicator      |
| 7  | Scan / Memory Key                    | 18 | Triple Watch Indicator  |
| 8  | Power key                            | 19 | Memory Indicator        |
| 9  | Volume Up/Down key                   | 20 | Keylock Indicator       |
| 10 | 16/9 / TRI (Triple Watch) Key        | 21 | Battery Level Indicator |
| 11 | Sql (Squelch) Key                    | 22 | Charging Contacts       |

# Getting Started

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## Connect Drop-In Charger with AC adaptor

Plug one end of the AC adaptor into the wall outlet and the other end into the drop-in charger.



(single charger shown)



**NOTE**

- The drop-in charger is not water proof. Ensure the radio is dry before connecting to the charger.
- Don't use the charger when the ambient temperature is below 0° C (32° F) or above 45° C (113° F)

# Getting Started

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## Install the Battery Pack

Your radio uses the supplied NiMH battery pack.

To install the NiMH battery pack:

1. Make sure the radio is off.
2. Turn the screw holding the battery compartment counterclockwise with a screwdriver, and hold up the battery cover.
3. Put the NiMH battery pack in the battery compartment applying the battery contacts to the lower charge contacts. Be sure to follow the instructions written on the battery pack's label. Installing the battery pack incorrectly will prevent the unit from operating.
4. Before placing the battery cover back on the radio, check the rubber seal around the battery compartment and the ribbon of the battery pack: make sure that the seal is in good condition and that there is no foreign matter under the seal.
5. Replace the battery compartment door. Tighten the screws securely.



### **NOTE**

If the rubber seal appears worn, nicked, or dried out, replacement seals are available. Visit the website on the cover of this manual.



### **CAUTION**

Use only the supplied NiMH battery pack. Do not charge alkaline or non rechargeable batteries.



# Getting Started

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## Attaching the Beltclip

### To attach the belt clip:

Slide the belt clip until it snaps into place.

### To remove the belt clip:

To remove the belt clip, press and hold belt clip locker, slide the belt clip at the same time until released.

## Using the Carabiner Clip

Use the carabiner clip to conveniently secure the MHS050 to a belt or strap.



The MHS050 will float when the carabiner clip is not connected and the battery cover securely fastened.

## Charging the Battery Pack

Your radio includes charging cradle and rechargeable battery pack. Follow these instructions to recharge the radio in the charging cradle.



For the initial battery charge, make sure the radio is off for optimum charging.

1. Connect the adapter's plug to DC IN 12V jack of the charging cradle and plug the other end into an AC outlet.
2. Set the charging cradle on the desk or tabletop, and place the radio in the charging cradle with the keypad facing forward.
3. Make sure that the LED illuminates. Charge the battery pack for 13 hours and remove the radio from the charging cradle after charging.



(single charger shown)

# Getting Started

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## **NOTE**

- Charge time may vary depending on the battery life remaining.
- For fastest charging, turn off the radio before charging.



## **WARNING**

- The charging cradle is not waterproof. If the charging cradle falls into water, unplug it before attempting to remove it from the water. Allow the cradle to dry completely before reconnecting the power.
- Wipe off dirt or shake water from your radio before placing in the charging cradle if your radio is soiled or wet.

# Getting Started

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## Battery Level Display

The BATTERY icon at the bottom of the screen indicates the battery level at all times. The battery level is displayed in 4 levels.

### LEVEL 4

Battery 100% full



### LEVEL 3

Battery approx.  
40% capacity



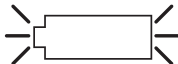
### LEVEL 2

Low Battery



### LEVEL 1

(flashing)  
Empty Battery



**NOTE**

When **(PTT)** is pressed at Level 1, an error tone sounds and transmission is disabled. Once at Level 1 the unit will automatically shutdown after 60 seconds.



**NOTE**

Recharge the battery at any time. From empty the battery will take up to 13 hours to fully charge.

Battery Life : 12 Hours (Typical)

This is based on the following Duty Cycle:



Transmit (Low Power)	5%
Receive	5%
Stand-by	90%

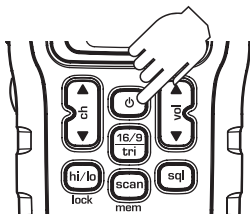
# Operation

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In order to get the most out of your new radio, read this owner's manual completely before attempting to operate the unit.



## Power On/Off

1. Press and hold  to turn the radio ON.  
A channel number and battery level should appear on the display.
2. Press and hold  to turn the radio OFF.



## Volume

The volume level can be adjusted from 0 (no volume) to 7 (maximum volume).

1. Press **VOL** () or () to increase or decrease the volume level. **U** shows on the display and the current volume level flashes.



# Operation

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## Selecting a Channel

Press **CH** (▲) or (▼) to select the desired channel.



**NOTE**

If you press and hold the (▲) or (▼), channel number will scroll rapidly.



**NOTE**

For your reference a list of the available channels, corresponding frequencies and guidelines for their use and selection is printed on page 27.

# Operation

## Squelch

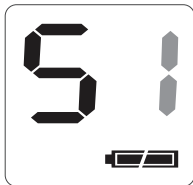
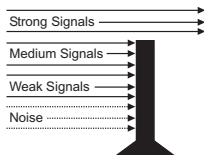
The squelch is used to eliminate any annoying background noise when there are no signals present.



Make sure to first select a channel not in use before setting the squelch in your MHS050 VHF Marine radio.

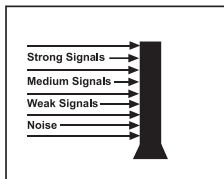
- S1 - max sensitivity (min squelch)
- S2 - med sensitivity (med squelch)
- S3 - min sensitivity (max/tight squelch)

1. Press **(sql)** momentarily. **S** shows on the display and the current squelch level will flash.
2. Press **(sql)** while the squelch level shows to change the squelch level to the next step.
3. Press and hold **(sql)** to save and exit the squelch setting.

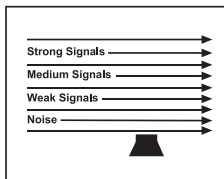


# Operation

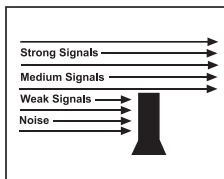
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Think of the squelch control as a gate. If you increase the squelch level to maximum it raises the 'Squelch gate' so only the strongest signals get through.



If you decrease the squelch level to minimum it lowers the 'Squelch Gate' to the extent that weak signals can get through.



If unwanted weak and noisy signals are getting through increase the squelch level ('Squelch Gate') to a medium level. Now only medium and strong signals get through.

# Operation

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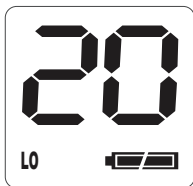
## To Transmit and Receive

The MHS050 uses the International Marine Channels. For your reference a list of the available channels and corresponding frequencies is printed on p.23-p.25.

1. The maximum RF transmit power of MHS050 is 2.5W.

Press **(hi/lo)** to change the transmit power between High (2.5W) and Low (1W).

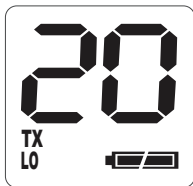
**HI** appears on the display when on high power and **LO** when on low power.



2. Before you transmit, listen for activity on the selected channel.

3. When the channel is clear, press and hold the **(PTT)** or **(BOOST)** to transmit. **TX** appears on the LCD.

*Hold the radio with microphone approximately five cms in front of your mouth with the antenna at approximately 45\* angle away from your head. Speak in a clear, normal conversational voice.*





# Operation

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## **NOTE**

When you press **(BOOST)** when the transmit power is low (Lo - 1W) the radio transmits at maximum high (Hi - 2.5W) power (except for channel 75 and 76).

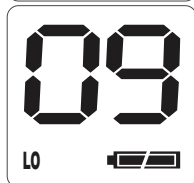
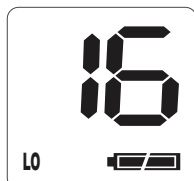
4. When you have finished speaking, release the **(PTT)** or **(BOOST)** to listen for a response. **TX** indicator then disappears on the LCD.

# Operation

## One-touch Channel 16/09

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

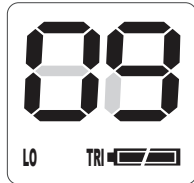
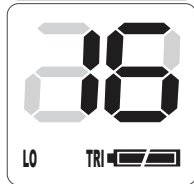
- 1 You are now on channel 20.
- 2 To monitor channel 16, press **(16/9)**.
- 3 To monitor channel 9, press **(16/9)** again.
- 4 To return to channel 20, press **(16/9)** again.



## 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. Press and hold **(tri)** to activate the Triple Watch.
2. Press and hold **(tri)** again to exit Triple Watch.



**NOTE**

While in Triple Watch mode, you can change the currently selected channel using **CH** (**▲**) or (**▼**).

# Operation

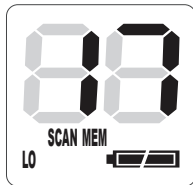
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## Scanning

The MHS050 can scan the channels programmed into memory, see Programming Scan Channels on page 20.

To initiate scanning;

1. Assuming the unit is on CH17 when switched on.
2. Press (**scan**) and scanning starts. **SCAN** icon appears during scanning.



The MHS050 will scan memory channels in ascending order.

If Triple Watch is turned on during scan then the radio will scan the memory channels in ascending order and will check channel 09 and channel 16 every 2 seconds, then resume scanning the memory channels.

# Operation

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## Programming Scan Channels

1. Select the channel you want to store by pressing (▲) or (▼).
2. Press and hold (**mem**). **MEM** appears and a double beep is heard.
3. To remove the channels from Memory, press and hold (**mem**) once more. A double beep sounds and **MEM** disappears.



## Drop-out Delay

While scanning, the MHS050 stops at a busy channel and receives a signal. When the received signal is over, the unit will wait for 2 seconds for the return of the signal, otherwise, the radio resumes scanning.

# Operation

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## Power Save

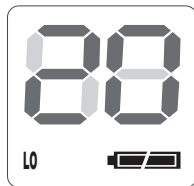
Battery Save feature extends the battery life by switching the receiver circuit power ON and OFF. This feature automatically activates during standby mode (RX mode without signal).

## Back Lighting

The Liquid Crystal Display (LCD) is backlit for easy viewing at night or in low light situations. The back lighting automatically switches ON every time a key (except PTT and BOOST) is pressed. It turns OFF 10 secs after the last key is pressed.

## Monitor

1. Press **(MON)** to start monitoring one channel with fixed (open) squelch.
2. Press and hold **(MON)** for 2 seconds to hold the monitor status on. All channel indicators will start to flash.
3. Press **(MON)** key again to release the monitoring status.



Monitor is not available in scan mode or triple watch mode.

# Operation

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## Keypad Lock

To prevent accidental entries, you can lock the keypad. Press and hold **(LOCK)** until it beeps to activate Key Lock. **LOCK** appears.

To unlock the keypad, press and hold **(LOCK)** again. **LOCK** icon disappears.



**NOTE**

When the Key Lock is active, a warning beep will be heard and the **LOCK** icon will blink if you attempt to press keys, except for the **(PTT)**, **(BOOST)** and **(MON)** buttons.

# Marine Channels - International

Channel Desig	Frequency (MHz) Transmit Receive		Traffic Type	Ship to Ship	Ship to Shore	Permanent Scan List
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	
10	156.500	156.500		Yes	Yes	
11	156.550	156.550		Yes	Yes	
12	156.600	156.600		No	Yes	
13	156.650	156.650		Yes	Yes	
14	156.700	156.700		Yes	Yes	
15	156.750	156.750		Yes	Yes	
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	No	Yes	
20	157.000	161.600	Duplex	No	Yes	
21	157.050	161.650	Duplex	No	Yes	
22	157.100	161.700	Duplex	No	Yes	
23	157.150	161.750	Duplex	No	Yes	
24	157.200	161.800	Duplex	No	Yes	
25	157.250	161.850	Duplex	No	Yes	
26	157.300	161.900	Duplex	No	Yes	
27	157.350	161.950	Duplex	No	Yes	
28	157.400	162.000	Duplex	No	Yes	

# Marine Channels - International

Channel Design	Frequency (MHz)		Traffic Type	Ship to Ship	Ship to Shore	Permanent Scan List
	Transmit	Receive				
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	
69	156.475	156.475		Yes	Yes	
70	RX Only	156.525				
71	156.575	156.575		Yes	Yes	
72	156.625	156.625		Yes	No	
73	156.675	156.675		Yes	Yes	
74	156.725	156.725		Yes	Yes	
75	156.775	156.775		Yes	No	
76	156.825	156.825		Yes	No	
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	
82	157.125	161.725	Duplex	Yes	Yes	
83	157.175	161.775	Duplex	Yes	Yes	
84	157.225	161.825	Duplex	Yes	Yes	
85	157.275	161.875	Duplex	No	Yes	
86	157.325	161.925	Duplex	No	Yes	
87	157.375	157.375		No	Yes	
88	157.425	157.425		Yes	No	



# Notes

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# Warranty

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## UNIDEN MHS050 Handheld VHF Transceiver

**IMPORTANT: Satisfactory evidence of the original purchase is required for warranty service**

Please refer to our Uniden website for any details or warranty durations offered in addition to those contained below.

**Warrantor:** The warrantor is either Uniden Australia Pty Limited ABN 58 001 865 498 (“Uniden Aust”) or Uniden New Zealand Limited (“Uniden NZ”) as the case may be.

**Terms of Warranty:** Uniden Aust/NZ warrants to the original retail purchaser only that the MHS050 Radio (“the Product”), will be free from defects in materials and craftsmanship for the duration of the warranty period, subject to the limitations and exclusions set out below.

**Warranty period:** This warranty to the original retail purchaser is only valid in the original country of purchase for a Product first purchased either in Australia or New Zealand and will expire three (3) years from the date of the original retail sale.

If a warranty claim is made, this warranty will not apply if the Product is found by Uniden to be:

- (A) Damaged or not maintained in a reasonable manner or as recommended in the relevant Uniden Owner’s Manual;
- (B) Modified, altered or used as part of any conversion kits, subassemblies or any configurations not sold by Uniden Aust or Uniden NZ;
- (C) Improperly installed contrary to instructions contained in the relevant Owner’s Manual
- (D) Repaired by someone other than an authorized Uniden Repair Agent in relation to a defect or malfunction covered by this warranty; or
- (E) Used in conjunction with any equipment, parts or a system not manufactured by Uniden.

**Parts Covered:** This warranty covers the Product and included accessories.

**User-generated Data:** This warranty does not cover any claimed loss of or damage to user-generated data (including but without limitation phone numbers, addresses and images) that may be stored on your Product.

# Warranty

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**Statement of Remedy:** If the Product is found not to conform to this warranty as stated above, the Warrantor, at its discretion, will either repair the defect or replace the Product without any charge for parts or service. This warranty does not include any reimbursement or payment of any consequential damages claimed to arise from a Product's failure to comply with the warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is in addition to and sits alongside your rights under either the COMPETITION AND CONSUMER ACT 2010 (Australia) or the CONSUMER GUARANTEES ACT (New Zealand) as the case may be, none of which can be excluded.

**Procedure for obtaining warranty service:** Depending on the country in which the Product was first purchased, if you believe that your Product does not conform with this warranty, you should deliver the Product, together with satisfactory evidence of your original purchase (such as a legible copy of the sales docket) to Uniden at the addresses shown below. You should contact Uniden regarding any compensation that may be payable for your expenses incurred in making a warranty claim. Prior to delivery, we recommend that you make a backup copy of any phone numbers, images or other data stored on your Product, in case it is lost or damaged during warranty service.

## **UNIDEN AUSTRALIA PTY LTD**

Service Division  
345 Princes Highway,  
Rockdale, NSW 2216  
Phone: 1300 366 895  
Email: [custservice@uniden.com.au](mailto:custservice@uniden.com.au)

## **UNIDEN NEW ZEALAND LTD**

Service Division  
150 Harris Road, East Tamaki  
Auckland 2013  
Phone: (09) 273 8377  
Email: [service@uniden.co.nz](mailto:service@uniden.co.nz)

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