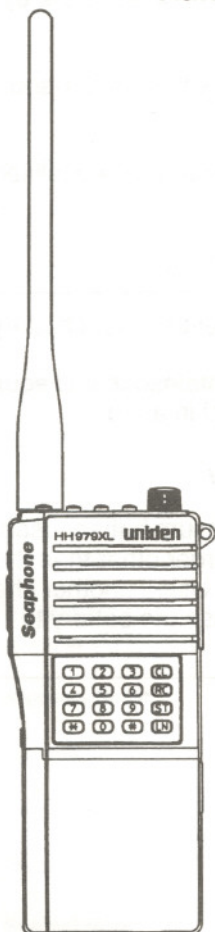


uniden®

HH979XL

Handheld Marine VHF Radio



Telstra Seaphone
Compatible Product

uniden®

OPERATING MANUAL

UNIDEN AUSTRALIA PTY. LTD
345 Princes Highway, Rockdale, NSW 2216
Ph (02) 599 3100 FAX (02) 599 3278

Please read this Operating Guide carefully before operating this radio

Safety Information

DO NOT operate the transmitter of any radio equipment with the antenna touching or close to the eyes, face, or exposed body parts.

DO NOT let children operate any transmitter-equipped radio equipment.

Have your radio equipment serviced by a qualified technician.

Nickel-Cadmium Battery Warning

This equipment contains a nickel-cadmium battery

The nickel-cadmium battery contained in this equipment may explode if disposed of in a fire.

DO NOT short circuit the battery.

DO NOT charge the nickel-cadmium battery used in this equipment in any other charger other than the one designed to charge this battery. Using another charger may damage the battery, or cause the battery to explode.

Uniden® is a registered trademark of **Uniden Corporation**.

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

Table of Contents

Introduction	2
Important	2
Warning	2
Feature Highlights	3
Unpacking	4
Optional Accessories	4
Controls and Indicators	5
Top Indicators and Display	5
Front Controls	7
Side Controls and Connectors	8
Getting Started	9
Antenna	9
Battery Information	9
Operation	10
Receive	10
Dual Watch	10
Channel Scan	10
Instant Channel 16 Communications	11
Australian/International Channels	11
Weather Channels	11
Transmitting	12
Special Features	13
DTMF Controls and Functions	14
Seaphone Operation	15
Vessel to Shore Automatic Dialling Procedure	15
Vessel to Shore Manual Call Procedure	15
Shore to Ship Semi-Auto Calls and Auto Radio Check	16
Shore to Ship Booking Procedure	16
Shore to Vessel Manual Calls from TELSTRA Maritime Communication Station	16
"333" Repeater Mode Seaphone Calls	17
Dial "999" For Emergency Service	17
Cautionary Note	18
Memory Dialling	19
Storing a Telephone Number Into Memory	19
Erasing a Stored Telephone Number	19
Recalling the Stored Telephone Number	19
Last Number Redialling	20
Manual DTMF Over-Dialling	20
Registration	21
Service	22
Care and Maintenance	23
VHF FM Marine Radiotelephone Channels and Functions Australian Channels	24
VHF FM Marine Radiotelephone Channels and Functions International Channels	25
Specifications	26

Introduction

Congratulations! You've chosen the Uniden **HH979XL** for your Handheld Marine VHF Radio. The **HH979XL** has been engineered to exact marine specifications for reliable, dependable operations. This Radio gives you the full complement of all Australian and International channels, Seaphone Channel Access, Instant Channel **16**, rechargeable batteries and more. The **HH979XL** features Phase Locked Loop frequency synthesis for precise transmit and receive frequency control and long term stability. This radio has been type approved and certified by the Australian **Spectrum Management Agency (SMA)** for marine use, and Telstra Corporation for access to its Seaphone Network around Australia.

Important

In Australia, the VHF-FM Marine Radio Telephone Band is regulated by the Spectrum Management Agency. Any adjustments or alterations which would alter the performance of the transceivers original SMA type approvals or would change the determining method are strictly prohibited.

Replacement or substitution of crystals, transistors, ICs, regulators, diodes, or any other part of a unique nature, with parts other than those recommended by **UNIDEN** may cause violation of the technical specifications as approved by the SMA.

You are required to comply with the Rules and Regulations as set forth by the AUSTRALIAN Spectrum Management Agency.

Before operating the radiotelephone, you must hold an appropriate Certificate of Proficiency. To obtain this certificate, you are required to demonstrate by examination a satisfactory knowledge of the Marine distress and safety procedures and related operating principles associated with maritime communications.

General information relating to licensing and operation of stations in the Marine Radio Communication Service can be obtained from any SMA office in your state.

WARNING

UNIDEN does NOT warrant this unit to be waterproof. When using this unit in a marine environment, care must be taken to prevent spray or water from entering the unit, which may damage it.

Feature Highlights

Australian and International VHF Radio Telephone Channels

Includes a full complement of Marine VHF FM frequencies.

Ten Weather Channels

For vital weather information.

Seaphone System Access

Fitted with DTMF keypad and unique Seaphone ID, fully compatible with TELSTRA's National Seaphone System.

Auto-Squelch System

Eliminates unwanted noise when the Channel is not busy .

Scan Mode

Provides rapid, automatic scanning of all channels.

Dual Watch Mode

Checks for activity on both the current channel and Emergency Channel 16.

Rechargeable Battery Pack

Eliminates the costly expense of frequent battery replacement.

Battery Save Mode

Conserves battery energy when there is no activity on the current channel for over 3 seconds.

LCD Backlight

Illuminates the channel display for visibility at night or under dim conditions.

Battery Low Detection

The TX LED (RED) blinks during transmit when the battery level is LOW.

UNPACKING

Carefully check the package contents against this list:

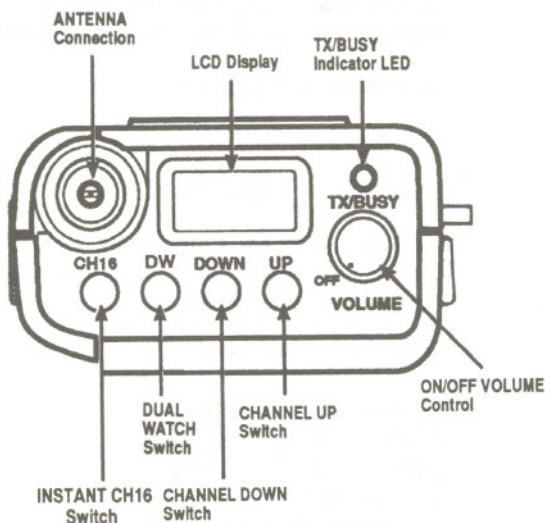
- Uniden HH979XL Handheld Marine Radio
- Flexible Antenna
- AC Adaptor/Charger
- Standard Nickel-Cadmium Battery Pack
- Belt Clip
- Wrist strap
- This Operating Guide with Seaphone Registration Form

If any items are missing or damaged, contact your place of purchase immediately. Be sure to complete and mail the Seaphone Registration Form to Telstra's Customer Service Centre.

OPTIONAL ACCESSORIES

- **Speaker-Microphone**
A 2-in-1 feature combination for convenient transmitting and receiving.
- **Spare Battery Pack**
A replacement pack for your rechargeable battery .
 - Standard Pack or Heavy Duty Pack
- **Battery Pack Charger**
Trickle or Rapid Charger

Controls and Indicators



TOP INDICATORS AND DISPLAYS

Antenna Connector - Connect the flexible antenna to this TNC port.

WARNING: *Do not use any other antenna other than the one supplied. This can permanently damage your radio.*

Channel UP/DOWN Switches - Use to select a channel.

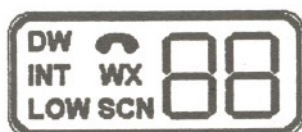
ON/OFF Volume Control - Rotate clockwise to turn the Radio ON and increase the volume. Rotate counter-clockwise to turn the Radio OFF or decrease the volume.

TX/Busy Indicator - The **red LED** lights when you press the PTT switch (to transmit). It blinks when the Battery is Low and needs recharging. The **green LED** (BUSY Indicator) lights when signals are being received.

CH16 (Channel 16) - This switch is used to access instant Channel 16 communications.

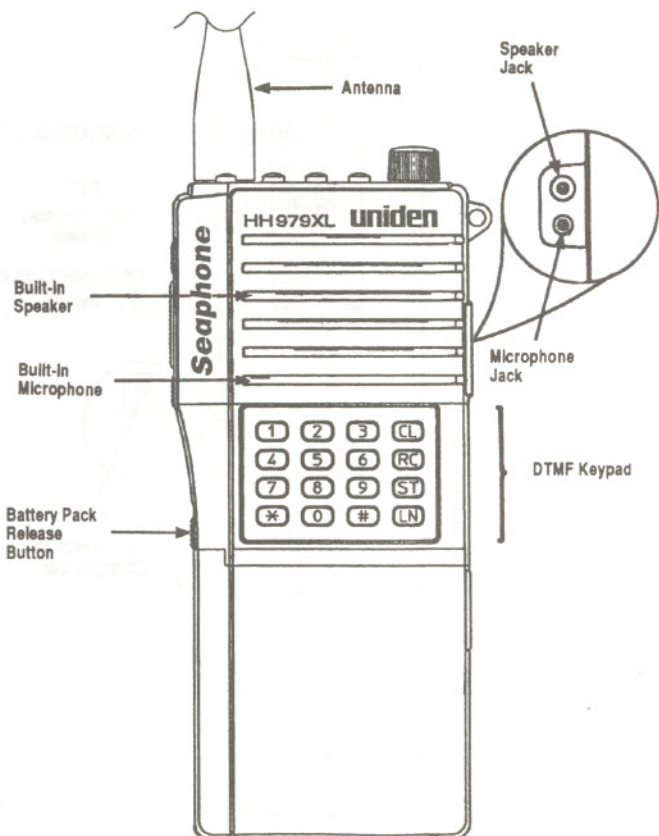
LCD Display - The liquid crystal display (LCD) has several indicators that show the current operating mode. The two digits at the right show the current selected channel. The smaller displays show which features are enabled.

DW	Dual Watch Mode Enabled
	Indicates Seaphone Channel
INT	International Channel Selected
WX	Indicates Weather Channel
LOW	Low Power TX Selected
SCN	Scan Function Enabled



Note: *Weather (WX) Channel Service is not available in Australia.*

FRONT CONTROLS



Built-In Speaker - Audio Output

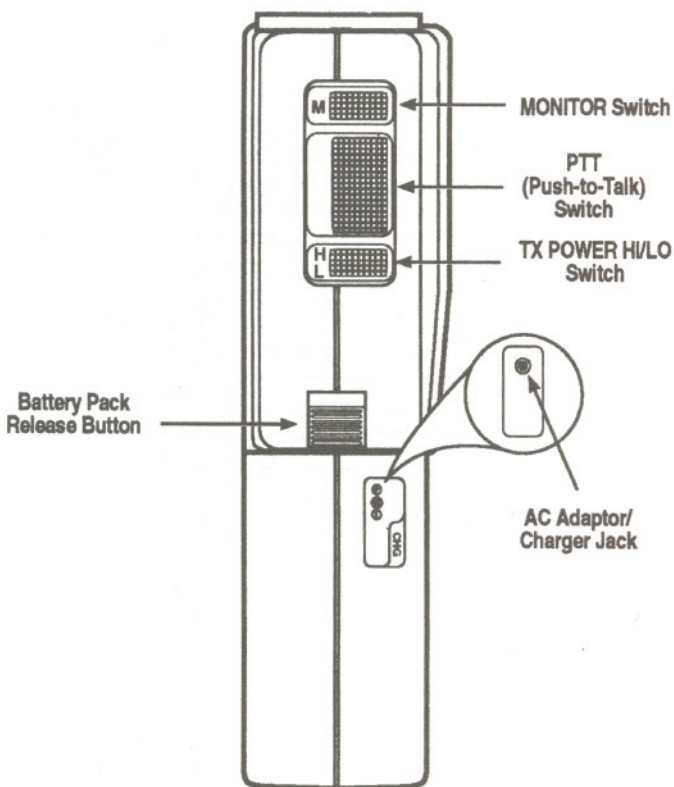
Built-In Microphone - Speak into the microphone when transmitting.

Speaker Jack - Connect optional external speaker here.

Microphone Jack - Connect optional external microphone here.

DTMF Keypad - Used when entering DTMF data, such as an access code or telephone number. Or when using special Seaphone Function.

SIDE CONTROLS and CONNECTORS



Battery Pack Release Button - To remove the Battery Pack, push up on the release button and slide the Battery Pack away from the radio.

Monitor Switch - Press to set the Auto-squelch feature ON or OFF.

Push-to-Talk (PTT) Switch - Press and hold to talk. Release to listen for a reply.

TX Power HI/LOW Switch - Press to set the transmit output power to HIGH (5W) or LOW (1W).

AC Adaptor/Charger Jack - Connect AC Adaptor/Charger here

GETTING STARTED

Antenna

To attach the antenna to the TNC connector on top of your radio, press down and rotate the antenna base clockwise until it seats firmly into place.

Battery Information

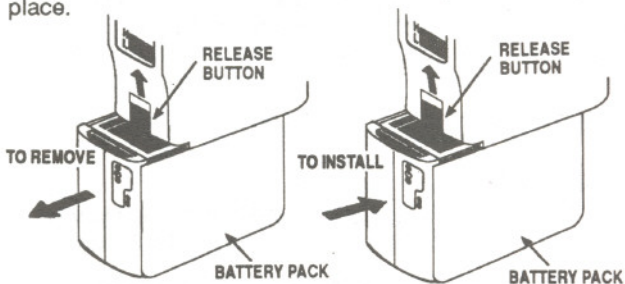
The HH979XL comes with a standard rechargeable Ni-Cd Battery Pack. An optional heavy duty rechargeable Ni-Cd battery pack is also available.

Installation

THE RECHARGEABLE NICKEL-CADMIUM BATTERY PACK MUST BE CHARGED FULLY BEFORE USING IT FOR THE FIRST TIME.

When installing or removing the rechargeable Battery Pack, be sure that the power (**ON/OFF Volume** control) is turned OFF.

To remove the Battery Pack, push up on the release button and slide the Battery Pack away from the radio. To replace, align the Battery Pack rails with the transceiver and slide toward the transceiver unit until the Battery Pack locks in place.



Recharging the Nickel-Cadmium Battery Pack

Note: Before charging, be sure that the power (**ON/OFF Volume** control) is turned OFF. Recharge the Ni-Cd Battery **ONLY** when the Unit indicates **LOW Battery condition**. (TX LED blinks during TRANSMIT).

Insert the discharged Battery Pack in the rapid charger , or connect the trickle charger to the side of the unit.

In the trickle charger, the standard pack charges fully in 8 hours, and the heavy duty pack in 12 hours. In the rapid charger, the standard pack charges fully in 1.5 hours, and the heavy duty pack charges fully in 2 hours.

DO NOT leave the Batteries on charger for an extended period of time.

OPERATION

RECEIVE

1. Turn the unit **ON** by rotating the **Volume** control clockwise. Channel 16 should appear on the LCD Display . (Power On Channel default)
2. Press the **UP** or **DOWN** switch to select the desired channel.
3. Press the monitor switch. (Auto-squelch turns OFF)
4. Rotate the **ON/OFF Volume** control to adjust the speaker volume to a comfortable level.
5. Press the Monitor switch. (Auto-squelch turns ON)

Note: *To listen to weak signal transmissions, switch OFF the Auto-squelch feature. (Squelch is on minimum level)*

Dual Watch

Dual Watch monitors Channel 16 for activity every two seconds while scanning or monitoring.

To activate **Dual Watch**, press **DW Switch** momentarily. The Dual Watch Indicator **DW** will appear on the **LCD Panel** indicating **Dual Watch Mode**. If a signal is received on Channel 16, the radio remains on **Channel 16** as long as the signal is active. Otherwise **Dual Watch** resumes after 3 seconds.

To deactivate **Dual Watch**, press **DW Switch** again.

Channel Scan

To activate **Channel Scan**, press and hold the **UP key** for about 1.5 seconds, **SCN** is displayed on the **LCD Panel**.

Notice that **Dual Watch** is **ON** automatically to cover **Channel 16** when **SCAN** Mode is activated. (**DW** indicator is also displayed on the **LCD Panel**.)

If there is too much activity on Channel 16, and you wish to exclude it from **SCAN**, simply press **DW Switch** momentarily to cancel **Dual Watch**. (**DW** is no longer displayed on the **LCD Panel**.)

In **Normal Scan**, the radio will stop on the first active channel and stay there as long as the signal is present. Otherwise scanning resumes after 3 seconds.

To resume scanning when on an active channel, press **UP key**.

To deactivate **Scan**, press **DOWN key**.

Instant Channel 16 Communications

To access **Instant Channel 16** Communications, press **CH16**. This overrides the channel selected with the **UP/DOWN** Key or any scanning activity. The Channel Display will indicate the unit is on **Channel 16**.

To deactivate **Instant Channel 16** Communications, Press **CH16** again to release the switch (Off) and the transceiver will return to the channel selected or previous mode prior to accessing **Instant Channel 16** communications.

AUSTRALIAN/INTERNATIONAL Channels

To select operation (communications and scanning) on **International Channels**, press and hold the **DW Switch** for about 1.5 seconds **INT** will appear on the **LCD Display** indicating **International Channel Mode**.

To select operation (communication and scanning) on **Australian Channels**, press and hold the **DW Switch** again for more than 1.5 seconds. **INT** will disappear on the **LCD Display** indicating **Australian Channel Mode**.

On **Power OFF**, the change is kept in memory.

Weather Channels (INT'L MODE ONLY)

To scan the **Weather Channels**, select any **Weather Channel** and then press and hold the **UP Switch** for about 1.5 seconds. The **SCAN** function starts and **SCN** will appear on the **LCD Display**.

DUAL WATCH is automatically **ON** to cover **CH16** when **SCAN** Mode is activated. (**DW** will appear on the **LCD Panel**)

If there is too much activity on **CH16**, and you wish to exclude it when scanning Weather channels, simply press **DW Switch** momentarily to cancel **Dual Watch**. (**DW** is no longer displayed on the **LCD Panel**)

To deactivate **SCAN**, press **DOWN** Key.

While on **Weather Channel** (Scanning or Monitoring), switching back to Australian Channel Mode will reset HH979XL to **CH16** Manual Mode.

Note: *WX (Weather) Service is currently not available in Australia.*

TRANSMITTING

When the unit is shipped from the factory , the transmitter power is set for **1 Watt** (Factory default). Thus, at initial Power **ON** the **LOW** indicator will appear on the **LCD Display**, indicating **1 Watt Power**.

To switch to the High (5 Watts) position. Press the **HI/LOW** switch. The **LOW** indicator will disappear on the **LCD Display**, indicating 5 Watt output power.

To switch back to **LOW power**, press the **HI/LOW** switch again. The **LOW** indicator appears on the **LCD**. The **LOW** position should always be used for in-port or short range communications only.

On **Power OFF**, the change is kept in memory .

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

When the channel is clear , press the **PTT Switch** to transmit. The **TX LED** comes on when you transmit. Hold the radio with the microphone approximately two inches in front of your mouth with the antenna at approximately a **45-degree angle** away from your head. Speak in a clear , normal, conversational voice.

When you are through speaking, release the **PTT Switch** and listen for an answer .

SPECIAL FEATURES

The **HH979XL** represents the most advanced **DTMF Marine Transceiver Radio** ever designed for use in the Maritime Radio Telephone Service. Built to be fully compatible with Australia's Auto Seaphone Network, you will be able to make and receive calls in your boat within most territorial waters of Australia.

With exceptional features like Automatic dialling, 10 number memory dialling, Last Number Redial function, DTMF over-dialling and confirmation tones make the HH979XL superior to any of its kind.

Be sure to complete the Seaphone Registration Form included at the back portion on this guide. Fill in all the details and send to the Customer Service Centre of TELSTRA Mobile Satellite and Radio Services at the address shown in the accompanying form.

Automatic Dialling

Automatically transmit the desired DTMF access code that was stored just before transmitting.

Memory Dialling

User - programmable auto-dial memory . Memorised Telephone Numbers are transmitted automatically .

10 Number Memories

Stores up to 10 important telephone numbers into memory for easy dialling.

Manual DTMF Over-Dialling

Lets you access banking services, call minders, answering machines, and other voice mail services.

Last Number Redial

Allows you to quickly re-dial the last number you entered. This feature is very useful when the called party's telephone is busy or engaged, there is no need for you to re-enter the complete telephone number again.

TX LED

Informs you when DTMF Tones are being transmitted.

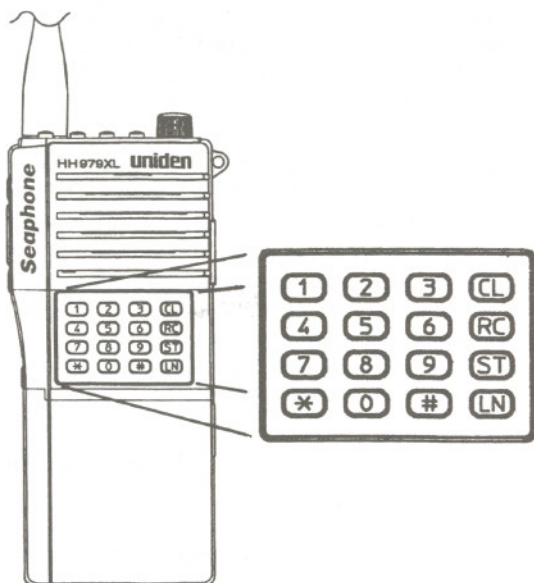
CLEAR Button

Lets you quickly erase incorrectly keyed-in digits.

CONFIRMATION Tones

You can hear Beep Tones whenever keys are pressed.

DTMF CONTROLS AND FUNCTIONS



- [0] TO [9] : **NUMERIC Keys**; Press to select telephone numbers and enter special codes and functions.
- [*] : **ASTERISK Key**; Press to **TRANSMIT** chosen telephone numbers and also to **INTERROGATE** the host computer to enquire if there are any calls for your vessel.
- [#] : **HASH Key**; Press to **TERMINATE** or **CANCEL** your call.
- [CL] : **CLEAR Key**; Press to erase previously selected digits.
- [RC] : **RECALL Key**; Press to retrieve telephone numbers stored in memory.
- [ST] : **STORE key**; Press to store telephone numbers into memory.
- [LN] : **LAST NUMBER REDIAL key**; Retrieves from memory the last telephone number entered.
- TX LED (Red)** : Lights when **DTMF Tones** are being transmitted.
- LCD Display** : (Flashing), serves as a function indicator during **MEMORY DIALLING Store/Erase sequence**.



Seaphone OPERATION

VESSEL TO SHORE OPERATION AUTOMATIC DIALLING PROCEDURE

- Select a free *Seaphone* channel appropriate to your location (refer to coverage map or *Seaphone* Directory from Telstra if necessary), listen to the channel and ensure there are no calls in progress.
- Dial the required telephone number on the keypad **Including the relevant STD/IDD area codes** (which must precede even local phone calls) as appropriate.
- Press the **ASTERISK [*]** button. Your *Seaphone ID* and telephone number will automatically be transmitted.
- A voice announcement (VA) will follow saying "Your *Seaphone* call is being connected" together with your *Seaphone ID*.
- Ring (or Busy) will be heard, followed by the called party answering.

Charging commences at this time.

Should the Shore subscriber's telephone number be **BUSY**, terminate the call using the **HASH [#]** Key, allow a few minutes to pass then press [LN] and **ASTERISK [*]** key to redial the last telephone number you have entered.

- Operate the **Press-To-Talk (PTT)** switch and conduct your telephone call in the normal manner.
- To terminate your call, simply press the **HASH [#]** button and listen for a final voice announcement (VA) from *Seaphone*. Repeat [#] if no VA is heard.

Note: *If you made an error in entering the telephone number, simply press [CL] key and re-enter the correct telephone number.*

VESSEL TO SHORE MANUAL CALL PROCEDURE

There is no change to existing manual call procedures.

- Select a free *Seaphone* channel and call "**Sydney Radio, Sydney Radio this is (VESSEL NAME) etc...**" for at least 4 seconds.
- An automatic VA will respond followed by the operator who will help you with the service you require.

SHORE TO SHIP SEMI-AUTO CALLS AND AUTO RADIO CHECK

To verify that your radio is in range, working OK and to determine if there are any outstanding Seaphone calls for your vessel, you can **"Interrogate"** the system via an idle Seaphone Channel at any time and at no cost by simply pressing the [*] button on your DTMF Keypad.

Within seconds you will hear a VA saying "Thank you for calling (quoting your Seaphone ID) - we have no calls for you at this time" or alternatively "Thank you for calling Seaphone - we have a call for you - please stand by". **In this instance, the Seaphone system will dial the shore subscriber's number and connect you automatically, with call costs charged to the shore party.**

SHORE TO SHIP BOOKING PROCEDURE

All shore to ship calls are made via the Ships at Sea Operator on **0108**. This is a free call. (Not connectable via public phones or PABX's with a bar on STD or IDD calls).

1. The shore subscriber will be asked for details of the vessel's Seaphone ID/radio call sign, ship's name and probable whereabouts. These details are entered into the Seaphone computer system, plus the caller's name/telephone number ashore.
2. The call can then be retrieved automatically at the vessel's convenience or when it's next in VHF range by following the simple **"Interrogation"** procedures.
3. The Ships at Sea Operator will also call the vessel on Channel 16,67 and / or Seaphone channels applicable to the vessel's known location.
4. Periodically, the caller will be advised of the status of any outstanding shore to ship calls.

SHORE TO VESSEL MANUAL CALLS FROM TELSTRA MARITIME COMMUNICATION STATIONS

There is no change to existing manual procedures. Two hourly "Traffic Lists" will continue to be broadcasted by each MCS on VHF Channel 67 or Primary Seaphone Channel with subsequent Seaphone calls connected in the normal manner appropriate for each Seaphone coverage area.

"333" REPEATER MODE SEAPHONE CALLS

Vessels outside the range of direct inter-ship VHF communications can make extended range (up to 10 times greater) ship-to-ship calls by using Seaphone stations as talk-through repeaters. And the first 20 seconds is free.

1. Choose the Seaphone channel which you know the other vessel(s) is monitoring in your area and listen briefly to ensure that the channel is clear.
2. Dial the numbers **"333"** on the keypad and press the Asterisk [*] button. Your Seaphone ID and the dialed number will automatically be transmitted.
3. A voice announcement will follow saying "Your Seaphone ship-to-ship channel is now open, please proceed".
4. Now call the vessel you wish to talk to - eg: "Unicom Unicom, this is Mariner, Mariner on Channel 23. Do you copy? Over."
5. When the other vessel responds operate your PTT Switch in the normal manner. To terminate your call, simply press the **HASH [#]** button and listen for the "Thank you for calling" voice announcement.

Important Note:

Pressing the HASH [#] button and receiving the latter voice announcement ensures that call charging is terminated.

Ship-to-ship Seaphone repeater calls are currently charged at just \$0.75 per minute with 20 seconds of free establishment time.

DIAL "999" FOR EMERGENCY SERVICE

If you are involved in an emergency at sea and you have made a distress call on Channel 16 or 67 without response from a coast station or another vessel, simply switch to an unoccupied Seaphone channel appropriate to your area.

Dial "999" and press asterisk "*".**

There is no need for you to wait if all Seaphone channels are busy because a "999" call will usually override any established Seaphone traffic in progress at the time.

Your signal will immediately activate a high priority alarm at your nearest Seaphone station, the operator's screen will switch to red alert and the Seaphone computer system will automatically display your vessel's name radio callsign, owner's name, address and telephone number for urgent attention.

This will be followed on air by an automatic voice announcement declaring **"Attention all ships, emergency call received, please stand by for Sydney Radio"**.

The Seaphone channel you are using will also be automatically switched to "talk through repeater mode". This means that your signals are instantly rebroadcast from the VHF base station antenna enabling any other vessels listening on the channel to respond and standby to render assistance as advised by the operator and the appropriate search and rescue organisation.

Cautionary Note:

The effective range and strength of ship-to-shore and ship-to-ship VHF transmission varies greatly depending on the quality of individual radio installations, height of the antenna and the vessels location. (As VHF is essentially a line of sight medium, signals can be greatly interrupted by high terrain in sheltered waterways and inlets).

In addition, volume and signal strength of other traffic and channel capacity in a particular location can impact on the timing and/or success of establishing a radio link.

If any of these factors apply to your vessel you may not succeed in making contact when you first activate the "999" *Seaphone* facility. In these circumstances you should continue to repeat the procedure outlined above, selecting an alternative Seaphone channel if necessary .

MEMORY DIALLING

You can store up to 10 telephone numbers into memory .
Each telephone number can be up to 30 digits long.

STORING A TELEPHONE NUMBER INTO MEMORY

To store a number into memory , do the following:

- Press **[ST]** key. Note that the **LCD Display** is flashing.
(as shown) 
- Enter the desired telephone number with the appropriate **STD** and **IDD** Area Codes.
- Press **[ST]** Key again.
- Enter the desired Memory location (choose from 0 to 9).
A confirmation **BEEP** will sound and the **LCD Display** stops flashing.

ERASING A STORED TELEPHONE NUMBER

- Press **[ST]** key. Note that the **LCD Display** is flashing.
- Press **[CL]** key.
- Press **[ST]** key and the memory location number (0 to 9). A confirmation **BEEP** will sound and the **LCD Display** stops flashing.

Note: Whilst **STORING** and **ERASING** a telephone number:

- If you entered the wrong sequence, an error tone will sound and the programming mode will end.
- If you have not keyed any digit within **30 seconds**, an error tone will sound and the programming mode will end.

RECALLING THE STORED TELEPHONE NUMBER

- Press **[RC]** Key.
- Press the required memory location (**0 to 9**) desired.
- Press **Asterisk [*]** Key. Your Seaphone ID and the stored telephone number will automatically be transmitted.

Note: When the memory location is not entered an error tone will sound and **RECALL** mode will end.
Should you wish to discontinue memory recall dialling, just press **[CL]** Key.

LAST NUMBER RE-DIALLING

Often you may dial a subscribers telephone number that is **BUSY** or engaged. This added feature is very useful where **HH979XL** stores into a buffer the Last Telephone Number you have dialled. There is no need for you to enter the complete phone number again and again.

- Press **[LN]** Key.
- Press **Asterisk [*]** Key to transmit automatically the last number you have dialled.

Note: *At initial use, the **LN** function will not activate. An error tone will sound to inform you that there is no telephone number stored in the memory buffer .*

MANUAL DTMF OVER-DIALLING

The DTMF Keypad of Your **HH979XL** Marine Transceiver Radio can also be used to access banking services, call minders, telephone answering machines and voice mail services while on your boat.

DTMF Tones can be transmitted manually by holding the **PTT** switch **ON** and simultaneously selecting any digit (**0** to **9**). A corresponding **DTMF** Tone for every digit will be transmitted.

REGISTRATION

To access **Australia's Automated Seaphone Service**, simply complete the accompanying registration form located at the back page of this guide. Send it to the designated address listed on this form.

An annual access/registration fee of AUS\$50.00 currently applies. This will be billed to you by TELSTRA Mobile Satellite and Radio Services after you have been validated on the Seaphone System.

Note: *For further information about the Seaphone network capabilities and services, please contact:*

**TELSTRA Mobile Satellite
and Radio Services
Customer Service Centre**
Jennifer Street
La Perouse, NSW 2036
Phone : (02) 311-1302
Free Call : 1800 - 810 - 023
Fax : (02) 311 - 3846

SERVICE

Should you find it desirable or necessary to have service performed on your HH979XL, you are urged to contact the Uniden Dealer from whom you made your purchase. Your Uniden 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 your 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 AUSTRALIA PTY. LTD.
TECHNICAL SERVICE DIVISION
345 Princess Highway, ROCKDALE, NSW 2216**

Care and maintenance

Your **HH979XL** is a precision piece of electronic equipment and you should treat it accordingly. Due to the rugged design, very little maintenance is required. However, a few precautions should be observed:

- If your radio has been accidentally subjected to spray or splash, 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.
- You are urged to arrange a periodic performance check with your Uniden Marine Dealer.

VHF FM MARINE RADIOTELEPHONE CHANNELS AND FUNCTIONS

(AUSTRALIAN CHANNELS)

CHANNEL DESIG	FREQUENCY (MHz)		TYPE TRAFFIC	SHIP TO SHIP	SHIP TO SHORE	USE
	SHIP	SHORE				
01	156.050	160.650	Public Corresp	No	Yes	Tel
02	156.100	160.700	Public Corresp	No	Yes	Tel
03	156.150	160.750	Public Corresp	No	Yes	Tel
04	156.200	160.800	Public Corresp	No	Yes	Tel
05	156.250	160.850	Public Corresp	No	Yes	Tel
06	156.300	156.300	SAR/Port OPs/Commercial	Yes	No	
07	156.350	160.950	Public Corresp	No	Yes	Tel
08	156.400	156.400	Port OPs/Commercial	Yes	No	
09	156.450	156.450	Port OPs	Yes	Yes	
10	156.500	156.500	Port OPs	Yes	Yes	
11	156.550	156.550	Port OPs	Yes	Yes	
12	156.600	156.600	Port OPs	Yes	Yes	
13	156.650	156.650	Ship Navigation/Port OPs	Yes	Yes	
14	156.700	156.700	Port OPs	Yes	Yes	
15	156.750	156.750		Yes	Yes	
16	156.800	156.800	DISTRESS, Safety, Calling	Yes	Yes	
17	156.850	156.850		Yes	Yes	
18	156.900	161.500		Yes	Yes	
19	156.950	161.550		Yes	Yes	
20	157.000	161.600		No	Yes	
21	157.050	161.650	VHF MM Repeaters/Port OPs	Yes	Yes	
22	157.100	161.700	VHF MM Repeaters	Yes	Yes	
23	157.150	161.750	Public Corresp	No	Yes	Tel
24	157.200	161.800	Public Corresp	No	Yes	Tel
25	157.250	161.850	Public Corresp	No	Yes	Tel
26	157.300	161.900	Public Corresp	No	Yes	Tel
27	157.350	161.950	Public Corresp	No	Yes	Tel
28	157.400	162.000	Public Corresp	No	Yes	Tel
60	156.025	160.625	Public Corresp	No	Yes	Tel
61	156.075	160.675	Public Corresp	No	Yes	Tel
62	156.125	160.725	Public Corresp	No	Yes	Tel
63	156.175	160.775	Public Corresp	No	Yes	Tel
64	156.225	160.825	Public Corresp	No	Yes	Tel
65	156.275	160.875	Public Corresp	No	Yes	Tel
66	156.325	160.925	Public Corresp	No	Yes	Tel
67	156.375	156.375	DISTRESS, Safety	Yes	Yes	
68	156.425	156.425	Port OPs	No	Yes	
69	156.475	156.475		Yes	Yes	
70	—	156.525	DSC, Safety	RX ONLY	RX ONLY	
71	156.575	156.575		Yes	Yes	Fish
72	156.625	156.625	Non-Com/Com'l/Port OPs	Yes	Yes	Fish
73	156.675	156.675	Non-Commercial	Yes	Yes	
74	156.725	156.725	Commercial	Yes	Yes	
77	156.875	156.875	Non-Commercial	Yes	Yes	Fish
78	156.925	161.525	Commercial	Yes	Yes	
79	156.975	161.575	Port OPs	No	Yes	
80	157.025	161.625	VHF MM Repeaters	Yes	Yes	
81	157.075	161.675	Coast Guard	Yes	Yes	CG
82	157.125	161.725	VHF MM Repeaters	Yes	Yes	
83	157.175	161.775	Public Corresp	No	Yes	Tel
84	157.225	161.825	Public Corresp	No	Yes	Tel
85	157.275	161.875	Public Corresp	No	Yes	Tel
86	157.325	161.925	Public Corresp	No	Yes	Tel
87	157.375	161.975	Public Corresp	No	Yes	Tel
88	157.425	162.025	Public Corresp	No	Yes	Tel

VHF FM MARINE RADIOTELEPHONE CHANNELS AND FUNCTIONS

(INTERNATIONAL CHANNELS)

CHANNEL DESIG	FREQUENCY (MHz)		TYPE TRAFFIC	SHIP TO SHIP	SHIP TO SHORE	USE
	SHIP	SHORE				
WX0	—	163.275	Weather	RX Only	RX Only	Weather
WX1	—	162.550	Weather	RX Only	RX Only	Weather
WX2	—	162.400	Weather	RX Only	RX Only	Weather
WX3	—	162.475	Weather	RX Only	RX Only	Weather
WX4	—	162.425	Weather	RX Only	RX Only	Weather
WX5	—	162.450	Weather	RX Only	RX Only	Weather
WX6	—	162.500	Weather	RX Only	RX Only	Weather
WX7	—	162.525	Weather	RX Only	RX Only	Weather
WX8	—	161.650	Weather	RX Only	RX Only	Weather
WX9	—	161.775	Weather	RX Only	RX Only	Weather
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	Fish
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	Environmental
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	Busy Tel.
25	157.250	161.850	Public Corresp	No	Yes	Busy Tel.
26	157.300	161.900	Public Corresp	No	Yes	Busy Tel.
27	157.350	161.950	Public Corresp	No	Yes	Busy Tel.
28	157.400	162.000	Public Corresp	No	Yes	Busy Tel.
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	Fish
69	156.475	156.475	Non Com'l	Yes	Yes	Fish
70	—	156.525	DSC	RX Only	RX Only	
71	156.575	156.575	Non Com'l	Yes	Yes	Fish
72	156.625	156.625	Non Com'l	Yes	No	Fish
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	Coast Guard
82	157.125	161.725	US Govt Only	Yes	Yes	
83	157.175	161.775	Coast Guard	Yes	Yes	Coast Guard
84	157.225	161.825	Public Corresp	No	Yes	Busy Tel.
85	157.275	161.875	Public Corresp	No	Yes	Busy Tel.
86	157.325	161.925	Public Corresp	No	Yes	Busy Tel.
87	157.375	161.975	Public Corresp	No	Yes	Busy Tel.
88	157.425	162.025	Com'l	Yes	No	Busy Tel.

SPECIFICATIONS

GENERAL

Channels	: Transmit : 54 AUS/INT'L Receive : 55 AUST : 65 INT'L (10 Weather Channels)
Frequency Control	: Phase Locked Loop (PLL)
Controls	: On/Off Volume
Status Indicator	: TX LED @ PTT (ON): Continuous(Red): Transmit Flashing(Red): Low Battery Level. TX LED @ PTT (OFF): Continuous (Green): Busy Channel
	: SCN, DW, INT
	: LCD flashing: DTMF [ST] Function 
Channel Display	: LCD (Dual 7 Segment)
Buttons	: CH16, DW Key, UP Key, DOWN Key
Connectors	: Antenna, External Speaker/ Microphone AC Adaptor/Charger
Size	: 62mm W x 37mm L x 150mm H
Weight	: 370g.
Power Requirements	: 7.2 VDC
Antennal Impedance	: 50 ohms, nominal
Microphone	: Built-in Electret type
Speaker	: 8 ohms, 0.5 W
Operating Temperature Range	: 0°C to +55°C
Shock and Vibration	: Meets or Exceeds EIA Standards, RS152B and RS204C
SMA Approvals	: Type accepted under MS274

TRANSMITTER

Power Output	: 1 Watt or 5 Watt (Switch Selectable)
Modulation	: F3E, ± 5 KHz Deviation
Hum and Noise	: 40 dB typical
Audio Distortion	: 5% typical
Spurious Suppression	: -16 dBm min.
Frequency Range	: 156 to 158 MHz
Frequency Stability	: ± 300 Hz (Nominal)

RECEIVER

Frequency Range	: 156 to 163 MHz
Sensitivity	: 0.5 μ V (at 12dB SINAD or better)
Circuit	: Dual Conversion Super Heterodyne PLL
Squelch Sensitivity	: 1.6 μ V Max.
Spurious Response	: 60 dB Min.
Adjacent Channel	
Selectivity	: 60 dB Min.
Audio Power Output	: 500 mW Typical
IF Frequencies	: 1st IF 21.4 MHz 2nd IF 445 kHz

WARRANTY

Uniden HH979XL Handheld Marine Radio Australian 1 Year Warranty

Note: Please keep your sales docket as it provides evidence of warranty

WARRANTOR: Uniden Australia Pty. Limited ACN 001 865 498

ELEMENTS OF WARRANTY: Uniden warrants to the original retail owner for the duration of this warranty, its HH979XL Handheld VHF Marine Transceiver (hereinafter referred to as the Product), to be free from defects in materials and craftsmanship with only the limitations of exclusions set out below.

WARRANTY DURATION: This warranty to the original retail owner only, shall terminate and be of no further effect One (1) Year after the date of original retail sale. This warranty will be deemed invalid if the product is; (A) Damaged or not maintained as reasonable and necessary, (B) Modified, altered or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) Improperly installed, (D) Repaired by someone other than an authorized Uniden Repair Agent for a defect or malfunction covered by this warranty, (E) Used in conjunction with any equipment or parts or as part of a system not manufactured by Uniden, (F) Installed, programmed or serviced by anyone other than an authorized Uniden Repair Agent, (G) Where the Serial Number label of the product has been removed or damaged beyond recognition.

PARTS COVERED: This warranty covers for 1 year, the HH979XL Handheld VHF Marine Transceiver unit only. All accessories, NICAD Battery, AC Adaptor/Battery Charger, Antenna, Belt Clip, Wrist Strap are covered for 90 days.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, the warrantor at its discretion, will repair the defect or replace the product and return it to you without charge for parts and service.

THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES.

WARRANTY CARD: If a warranty card has been included with this product then please fill it in and return it to us within 14 days of purchase. Your name and serial number of the product will then be registered in our database and this will help up process your claim with greater speed and efficiency should you require warranty service.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: In the event that the Product does not conform to this warranty, the Product should be shipped or delivered, freight pre-paid, with evidence of original purchase, (eg/ a copy of the sales docket), to the warrantor at:

UNIDEN AUSTRALIA PTY. LTD. - TECHNICAL SERVICE DIVISION
345 Princes Highway, Rockdale, NSW 2216
Ph (02) 599 3100 FAX (02) 599 3278

Customers in other States should ship or deliver the Product freight pre-paid to their nearest Uniden Authorized Repair Centre.
(Contact Uniden for the nearest Warranty Agent to you)



Seaphone Registration Form

Please complete and return this form immediately to:

TELSTRA Mobile Satellite
and Radio Services
Customer Service Centre
Jennifer Street
La Perouse NSW 2036

Facsimile: (02) 311 - 3846

Customer's Name _____

Billing Address _____

Post Code _____ Post Code _____

Phone Number _____

Type/Model/VHF Radio _____

Radio Call Sign _____

Vessel Name _____

Vessel Type _____

Seaphone ID
(see rear of HH979XL) _____

Suppliers Name _____

Address _____

Post Code _____ Post Code _____

Phone Number () _____

Special Note:

Validations can be made by post, fax (as above) or simply ring
1800 - 810 - 023 toll free.

UNIDEN AUSTRALIA PTY. LTD.

345 Princes Highway, Rockdale, NSW 2216

Ph (02) 599 3100 FAX (02) 599 3278

UTUD01855ZA

Printed in the Philippines