MC 1010

VHF Marine Radio

Channel Scan

Dual Watch

OPERATING GUIDE

Uniden

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OF YOUR USER'S MANUAL (vertical, left margin)

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INTRODUCTION

The Uniden MC1010 VHF marine radio transceiver has been designed to give you a
rugged, reliable instrument that will provide you with years of trouble-free service.

You need to read this Operating Guide thoroughly to acquaint yourself with the characteristics
and operation of your transceiver.

Be sure to complete the Product Registration Card.

Keep your receipt as proof-of-purchase in case warranty service is required.

Included with your package

1 x Mounting Bracket and Screws   1 x Mic. hang up Bracket and Screws

2 x Bracket thumb screws   1 x DC Power lead

Optional Accessories

Flush mounting bracket for 'in dash' installation.   Extension speaker.

Please contact your local Uniden supplier for information

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

INSTALLATION

Convenience features of the MC1010

Universal mounting bracket - this allows you to install the MC1010 horizontally on top or to the underside of a shelf, on a bulkhead or overhead.

Remote speaker jack - for use with an optional extension speaker.

Plug-in type connections - for easy removal of the MC1010.

Internal speaker - positioned for convenient in-dashboard mounting using the optional flush mount bracket.

Choosing a location

When deciding on the most suitable location for your MC1010 you need to take into account electrical, mechanical and environmental elements that may effect its performance.

Antenna - The antenna needs to be located as high as possible and clear of metal objects. The performance range of the MC1010 is directly related to the antenna height. The cable to the antenna should be as short as possible. Long antenna leads can cause substantial loss of performance for both receiving and transmitting.

Moisture/Sunlight - Select a location that is sheltered from moisture and out of direct sunlight.

Battery leads - Try to mount the MC1010 close to the battery (within the range of the supplied power leads). If this is not possible, any extension needs to be made with #10 AWG wire. For long extensions a larger wire gauge should be used.

Compass - Due to possible electromagnetic interference the MC1010 and any extension speakers should not be mounted close to a compass.

Cooling - The location of the MC1010 should permit clear air flow to the heat sink at the rear of the radio.

Engine Noise Suppression

Interference generated from the electrical systems of engines is sometimes a problem with radios. The MC1010 has been designed to be essentially impervious to ignition impulse noise and alternator noise. However, in some installations it may be necessary to take measures to further reduce the effect of noise interference. All DC battery wires, antenna lead, and accessory cables should be routed away from power cabling carrying particularly high currents.

In severe cases of noise interference, it may be necessary to install a noise supression kit.

Antenna Considerations

A variety of antenna is available from a number of quality suppliers. It is recommended you draw upon the advice of your retailer when choosing a suitable antenna to suit your vessel and range requirements. In general, the communication range is increased by using a high-gain antenna placed as high as possible above the water line. Antennas should be located away from metal objects and not have excessively long coaxial feed cables.

Installing the MC1010

After you have considered the various factors affecting your choice of location, position the radio (with the bracket, microphone, power cord, antenna and any auxiliary cables installed) into the selected location and operate it to ensure there is no interference with surrounding fittings.

Mark the location of the mounting bracket, remove it from the radio and use the bracket as a template to position the fixing holes for drilling.

Screw fix the mounting bracket using the screws compatible with the mounting surface.

Connect the red wire of the supplied power cord to the positive (+) battery terminal.

Connect the black wire to (-) battery terminal.

Connect the power cord to the keyed connector on the DC power lead (see page 4)

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

CARE AND MAINTENANCE

Your MC1010 is a precision piece of electronic equipment and needs to be treated 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 moisture, you should immediately wipe it down with a soft cloth dampened with fresh water - then dry it off.

- 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 responsible for the continued AS/NZS 4415 technical compliance of your radio.

- You are urged to arrange for periodic performance checks with your local Uniden marine dealer.

CONTROLS AND INDICATORS

Front Panel
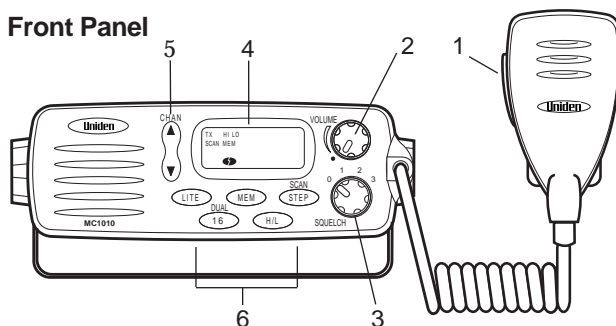
Rear Panel
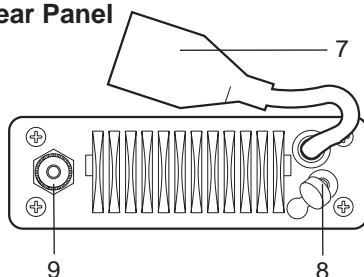
LCD Panel

1 PTT - Microphone - 'Push To Talk' button.

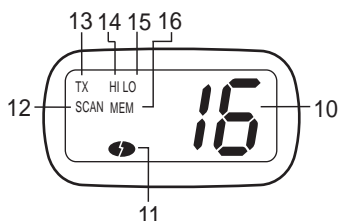**2** VOLUME (On/Off/Volume) - Turns the MC 1010 On or Off and varies the audio volume.

3 SQUELCH - Eliminates background noise when no signal is being received.

4 LCD Panel

5 CHAN - Used to manually select the desired Communication Channel

6 'Multi Function Buttons' see page 5.

7 DC Power - Connect to the supplied Power Cord.

8 Remote Speaker Jack - An external, 4 Ohm, 4 Watt speaker may be connected to this jack. The connecting wire must have a miniature plug.

9 Antenna Connector - Connect the antenna here using a type PL259 plug.

10 LCD Numerical Channel Display - Indicates Channel Number in use.

11 (Dual Watch) - Indicates Dual Watch has been selected.

12 **SCAN** - Indicates that you are scanning the channels in memory.

13 **TX** (Transmit) - Indicates when transmitting.

14 **HI** (High) - Indicates transmitted output power is 25 Watts.

15 **LO** (Low) - Indicates transmitted output power is 1 Watt.

16 **MEM** (Memory) - Indicates if the displayed channel is in memory for scanning.

MULTI FUNCTION BUTTONS
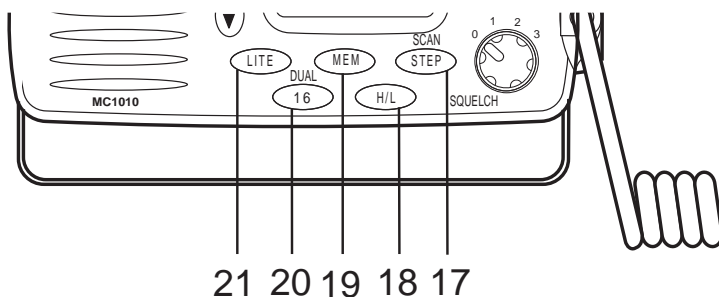
17 STEP - SCAN
This key is used to step through the channels that are stored in memory- or - when pressed and held, this key also starts and stops the Memory SCAN mode.

- Press **STEP** to step through the channels that are stored in memory.
- Press and hold **STEP** to begin scanning the channels in memory.

18 H/L - (High / Low)
This key allows you to switch between high transmit power (25 watts) or low transmit power (1 watt).

19 MEM - (Memory)
This key enters the displayed channel into scan memory.

20 16 - **Dual Watch** ⚡
This key allows rapid access to Emergency Channel 16 - or - when pressed and held ⚡ Dual Watch will be switched On/Off.
- Press **16** to instantly access Channel 16 communications.
- Press and hold **16** to turn Dual Watch On/Off.

21 LITE - (Light)
This key is used to turn the LCD back light on and off.

OPERATION

On/Off
Turn the unit on by rotating the **VOLUME** control clockwise.

Squelch
Adjust the 4 position **SQUELCH** rotary switch to eliminate background noise and select the signals you wish to receive.

Position 0 - (all signals) - squelch off.

Position 1 - (weak signals) squelch threshold

Position 2 - (medium signals) squelch medium

Position 3 - (strong signals only!) squelch maximum.

Dual Watch
Dual Watch monitors channel 16 for activity every two seconds while scanning or monitoring. To activate Dual Watch, press and hold button ⑯ until two short beeps occur. The indicator ⚡ appears on the LCD panel, indicating Dual Watch mode is in effect. If the signal is received on channel 16, the radio remains on channel 16 until the signal ends.

HI

16

Press and hold button ⑯ until the tone sounds to cancel Dual Watch mode.

Channel Selection
To select a channel manually, press the CHAN selector buttons (▲ / ▼) to select the desired channel. Communication channels are located on Channels 01 - 28, 60 - 69 and 71 - 88.

Instant Channel 16
To access instant Channel 16, press button ⑯. This overrides the channel selected with the CHAN selector buttons or any scanning activity. The Channel Display indicates the unit is on Channel 16. Press button ⑯ again. The transceiver will return to the channel selected. prior to accessing instant Channel 16 communications. The Channel display will indicate the selected channel.

16

MEM (Entering or removing Memory Scan channels)

You can enter channels into memory for instant scanning at any time. When a channel is selected for Memory Scan, the MEM indicator will appear on the LCD display.

To enter a channel number into memory, select the channel number you want stored by pressing the **CHAN** Selector button, then press (**MEM**). To remove a channel from memory, select the channel you want to remove by pressing the channel selector button, then press the (**MEM**) button. MEM will be removed from the display.

MEM 71

Scan

To scan channels stored in Memory, press and hold the (**STEP**) button. In the Memory Scan Mode, the MC1010 scans only those channel numbers previously entered into Memory.

SCAN MEM 88

Transmitting

One watt transmit power (LO) should be selected for most commuunications. This prevents your signal from interfering with other vessels communications, and will work fine unless maximum range is required. Press the H/L button until LO is shown in the display.

Twenty-five watt transmit power (HI) provides a great range. It will allow your signal to be heard over weaker signals. It should be used only when necessary.

To activate the transmitter, press the 'Push to Talk' switch on the microphone. TX will be displayed, indicating a signal is being transmitted. Release the switch to receive. When transmitting hold the microphone approximately 5cm from your mouth and speak clearly in a normal voice.

LO 71
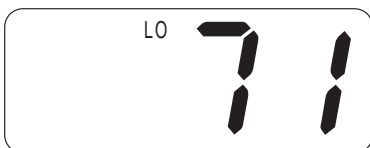
Transmit Time Out

If you transmit continuously for more than 5 minutes, TX flashes and transmit will be cancelled. The Time Out tone will sound until the PTT button is released.

CHANNEL AND FUNCTIONS

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

SPECIFICATIONS

General

Channels:	Transmit: 54
	Receive: 54
Controls:	On/Off, Volume, Squelch
Status Indicators:	TX, SCAN,⚡ , HI, LO, and MEM,on LCD Panel
Channel Display:	LCD (Dual 7 segment)
Selector Switch:	Channel Selector switch
Buttons:	LITE, 16, MEM, H/L, and STEP
Connectors:	Antenna, remote speaker, and DC power
Size:	2 1/5"H x 6 2/5"W x 8"L
Weight:	2.4 lbs
Supply Voltage:	13.8V DC negative ground
Standard Accessories:	Mounting bracket and hardware, DC power cord, microphone hanger, spare fuse,remote speaker plug.
Antenna Impedance:	50Ω nominal
Microphone:	Rugged $1k\Omega$ condenser mic element with coiled cord
Speaker:	1.82 inch, 8Ω
Operating Temperature Range:	$-10°C \sim +55°C$
Regulations:	Type accepted underAS/NZS 4415:1996

Transmitter

Power Output:	1 watt or 25 watt (switch selectable)
Power Requirement:	Not rated on LO; 25 watts output: 4.5A@13.8V DC
Modulation:	FM ±5 kHz deviation Max.
Hum and Noise Signal-to-Noise:	42 dB@300 HZ, 3kHz (nominal)
Audio Distortion:	Less than 3% with 3 kHz deviation with 1000 Hz modulating frequency (nominal)
Spurious Emmission:	- 36dBm @ 25 Watts Max.
Output Power Stabilization:	Built-in automatic level control (ALC)
Frequency Range:	156.025 to 157.425 MHz
Frequency Stability:	±1.58 kHz @ $-10°C$ to $+55°C$

Receiver

Frequency Range:	156.300 to 162.025 MHz
Sensitivity:	$0.28\mu V$ for 20 dB SINAD
Circuit:	Dual Conversion Super Heterodyne PLL
Squelch Sensitivity:	$0.4\mu V$ Threshold
Spurious Response:	75 dB
Adjacent Channel Selectivity:	73dB @±25KHz
Audio Output Power:	2.7watts (10% Distortion)
Power Requirement:	210mA @ 13.8V DC squelched 520mA @ 13.8V DC at maximum audio output
IF Frequencies:	1st -21.4 MHz 2nd - 455 kHz

WARRANTY

One Year Limited Warranty

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

Warrantor: Uniden Australia Pty Limited ACN 001 865 498
Uniden New Zealand Limited

ELEMENT OF WARRANTY: Uniden warrants to the original retail owner for the duration of this warranty, its MC1010 (herein after referred to as the Product), to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original retail owner only, shall terminate and be of no further effect 12 months 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 authorised 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) Only available in the original country of sale.

PARTS COVERED: This warranty covers for one (1) year, the MC1010 Unit only. All accessories (Mic, Cables etc) are covered for 90 days only.

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 or service. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THIS GUARANTEE IS IN ADDITION TO AND DOES NOT IN ANY WAY AFFECT YOUR RIGHTS UNDER THE CONSUMER GUARANTEE ACT.

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

PROCEDURE FOR OBTAINING PERFORMANCE OR 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 LIMITED	UNIDEN NEW ZEALAND LIMITED
SERVICE DIVISION	SERVICE DIVISION
345 Princes Highway,	150 Harris Road,
Rockdale NSW 2216	East Tamaki, Auckland
Ph (02) 9599 3577 Fx (02) 9599 3278	Ph (09) 273 8383 Fx (09) 274 4253
Toll Free 1300 366 895	Toll Free 0800 4 UNIDEN
	(864 336)
www.uniden.com.au	www.uniden.co.nz

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

THANK YOU

FOR PURCHASING A UNIDEN PRODUCT

Uniden