



VHF MARINE TRANSCEIVER

# IC-M602



Rugged  
**MIL-STD 810**

**Submersible**  
1m depth for 30 minutes



## Icom's Ultimate Marine VHF

### Built-in ITU Class-D DSC

An independent receiver continuously watches Ch. 70, while using another channel. Further, a single antenna connector allows VHF and Ch. 70 operation, thus simplifying installation. The 10-key pad allows simple and efficient operation of the DSC emergency functions, vital for your safety at sea.

### Superior receiver performance

The IC-M602 has excellent receive specifications of more than 80dB for spurious response, and intermodulation rejection. With such high level performance, received calls are remarkably clear and free from noise. The powerful audio output from the front facing speaker further increases the clarity of received calls.

### Simultaneous connection of two COMMANDMICII™'s

The optional COMMANDMICII™ provides a 2nd and/or 3rd station capability and an intercom function. With slim dimension and sizeable LCD, the COMMANDMICII™ offers ease and convenience to operate the radio from remote locations such as the cockpit or tower up to a max. 21.3m\* (70ft) from the IC-M602.

\* Requires use of optional OPC-999 extension cables.

### NMEA Input/Output

When connected to a GPS receiver, the IC-M602 indicates position data in seconds of accuracy. NMEA output allows you to plot other ships received position data on a PC or navigation equipment.

### Large LCD with dot-matrix characters

The large dot-matrix display is designed for optimum readability in any lighting condition. With the extra large font, the channel number is maximized on the display and other information can be easily read.

### 22 Watt 2-way Hailer capability

When connected to a hailer horn, communication with other boats, Deck or Dock hands is easy. The built-in amplifier increases talk power to 22W making your message loud and clear. Quickly access the hailer via the generously-sized, backlit keypad.

### Submersible construction

The IC-M602 including the supplied/optional microphone has effective waterproofing equivalent to IPX7\*.

\* 1m depth for 30 minutes; except cables.

**Icom Inc.**

## ADDITIONAL FEATURES

- Auto fog horn function with four selectable patterns
- Detachable waterproof 'Smart-speaker-microphone'
- Dual/tri-watch function
- Instant access to Ch. 16 and Ch. 9 (or call channel)
- 7 levels adjustable backlit display and keypad
- 4x8 inch flush mount design
- Convenient "TAG" scanning function with simple add/delete
- Auto WX scan and WX Alert function
- Optional Voice Scrambler, UT-112 for private communication
- Black and white versions available

## SPECIFICATIONS

### GENERAL

- Frequency range : Tx 156.025–157.425MHz  
Rx 156.050–163.275MHz
- Mode : 16K0G3E (FM)  
16K0G2B (DSC)
- Usable channels : All International, U.S.A. and Canadian channels, plus 10 Weather channels
- Power supply requirement: 13.8V DC  $\pm 15\%$
- Current drain (at 13.8V DC):  
Transmit 5.2A typical (at 25W output)  
Receive 1.2A typical (at max. AF)
- Operating temp. range:  $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  ;  
 $-4^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$
- Antenna impedance : 50 $\Omega$  (SO-239)
- Dimensions : 220(W) $\times$ 110(H) $\times$ 109.4(D) mm ;  
(proj. not included) 8 $2\frac{1}{2}$ (W) $\times$ 4 $1\frac{1}{2}$ (H) $\times$ 4 $\frac{1}{16}$ (D) in.
- Weight (approx.) : 1.35kg ; 2.97lb

### TRANSMITTER

- Output power : 25W or 1W (at 13.8V DC)
- Frequency error :  $\pm 0.3\text{kHz}$
- Max. Freq. deviation:  $\pm 5.0\text{kHz}$
- Spurious emissions : Less than  $-70\text{dB}$
- Residual modulation: More than 40dB
- Adjacent Ch. power : 70dB

### RECEIVER

- Receiver system : Double conversion super-heterodyne
- Intermediate freq. : 1st 30.15MHz, 2nd 450kHz  
DSC 1st 21.70MHz, 2nd 450kHz
- Sensitivity : Less than 0.32 $\mu\text{V}$  (at 12dB SINAD)
- Squelch sensitivity : Less than 0.32 $\mu\text{V}$
- Adjacent Ch. selectivity: More than 80dB
- Spurious response : More than 80dB
- Intermodulation : More than 80dB

- Audio output power : 5.0W typ.  
at 10% distortion with a 4 $\Omega$  load
- GPS interface : NMEA0183 Ver. 2.0 or 3.0I

### Applicable U.S. Military Specifications

Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	—
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	—
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

### Supplied accessories:

- Hand microphone
- DC power cable
- Mounting bracket kit

Measurements made in accordance with TIA/EIA 603. All stated specifications are subject to change without notice or obligation.

## OPTIONS

### MB-75



- **MB-75 FLUSH MOUNT KIT**  
For flush-mounting the IC-M602 to a flat surface such as a control panel.

- **HM-136B/W SMART-SPEAKER-MICROPHONE**  
Detachable waterproof speaker microphone. Same as supplied.

- **UT-112 VOICE SCRAMBLER UNIT**  
Enables private communication by scrambling your voice signal. Up to 32 scrambling codes are available. Not available in some countries.

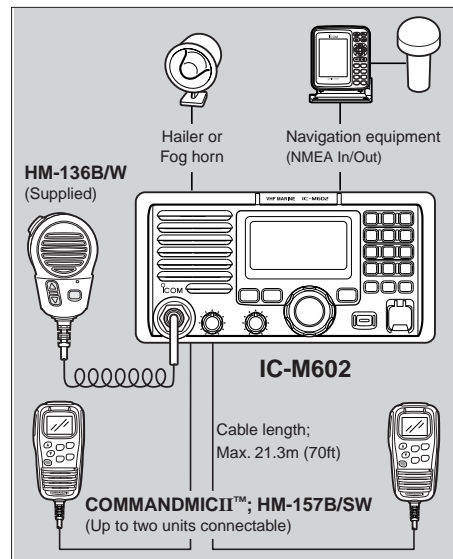
- **OPC-999 EXTENSION CABLE FOR HM-157B/W**  
6.1m (20ft) of extension cable for additional separation length when using the COMMANDMICII™.



- **HM-157B/SW REMOTE-CONTROL MICROPHONE**  
The COMMANDMICII™ fits in your palm comfortably. Its sizable LCD offers ease and convenience to operate from remote locations. You can talk with the IC-M602 as an intercom. DSC, hailer and fog horn are not possible.  
Size (W $\times$ H $\times$ D): 63.5 $\times$ 125.0 $\times$ 31.4 mm; 2 $\frac{1}{2}$  $\times$ 4 $\frac{29}{32}$  $\times$ 1 $\frac{1}{4}$  in.  
Weight (approx., except cables): 250 g ; 8.8oz  
Supplied accessories :  
• 6.1m (20ft) of cable • Mic. hanger  
• Mounting base for cable connector

COMMANDMICII is a trademark of Icom Inc. in the U.S.A.

## SYSTEM OVERVIEW



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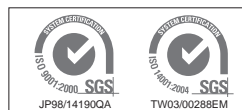
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