



VHF MARINE TRANSCEIVER

# IC-M602



## 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-keypad 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 COMMANDMIC®'s

The optional COMMANDMIC® provides a 2nd and/or 3rd station capability and an intercom function. With slim dimension and sizable LCD, the COMMANDMIC® offers ease and convenience to operate the radio from remote locations such as the cockpit or tower up to a max. 21m\* (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.

### Waterproof construction

The IC-M602 including the supplied/optional microphone has effective waterproofing equivalent to JIS waterproof grade 7\*.

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



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## 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
- 4×8 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 156.050–157.425MHz  
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 ±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°C to +60°C ;  
-4°F to +140°F
- Antenna impedance : 50Ω (SO-239)
- Dimensions : 220(W)×110(H)×109.4(D) mm ;  
(proj. not included) 8<sup>21</sup>/<sub>32</sub>(W)×4<sup>11</sup>/<sub>32</sub>(H)×4<sup>9</sup>/<sub>16</sub>(D) in.
- Weight (approx.) : 1.35kg ; 2.97lb

## TRANSMITTER

- Output power : 25W or 1W (at 13.8V DC)
- Modulation system : Variable reactance freq. mod.
- Max. Freq. deviation: ±5.0kHz
- Spurious emissions : Less than -70dBc
- Residual modulation: More than 40dB
- Adjacent Ch. power : 70dB

## Supplied accessories:

- Hand microphone
- DC power cable
- Mounting bracket kit

## RECEIVER

- Receive system : Double conversion super-heterodyne
- Intermediate freq. : 1st 31.05MHz, 2nd 450kHz  
DSC 1st 21.70MHz, 2nd 450kHz
- Sensitivity : Less than 0.32μV (at 12dB SINAD)
- Squelch sensitivity : Less than 0.32μV
- Adjacent channel selectivity : More than 80dB
- Spurious response : More than 80dB
- Intermodulation rejection ratio: More than 80dB
- Audio output power : 5.0W typical  
(at 10% distortion with a 4Ω load)
- GPS interface : NMEA0183 Ver. 2.0 or 3.01

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-127B/W**  
6 m (20 ft) of extension cable for additional separation length when using the COMMANDMIC®.



- **HM-127B/W REMOTE-CONTROL MICROPHONE**  
The COMMANDMIC® 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×H×D): 63.5×125.0×31.4 mm; 2<sup>1</sup>/<sub>2</sub>×4<sup>29</sup>/<sub>32</sub>×1<sup>1</sup>/<sub>4</sub> in. Weight (approx., except cables): 150 g ; 5.29 oz
- Supplied accessories :  
• 6 m (20 ft) of cable • Mic. hanger  
• Mounting base for cable connector

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

## SYSTEM OVERVIEW



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Certificate Number Q14190

Icom Inc. (Japan), is an ISO9001 certification acquired company.

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