



VHF MARINE TRANSCEIVER

# IC-M602



## High Performance, Full Function 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 COMMANDMIC®'s

The optional COMMANDMIC® provides a 2nd and/or 3rd station capability and an intercom function. All functions of the IC-M602 (except DSC operation) can be controlled 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, communication with other boats or deck/marina staff is possible. 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>2</sup>/<sub>32</sub>(W)×4<sup>1</sup>/<sub>32</sub>(H)×4<sup>5</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

### 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

### 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

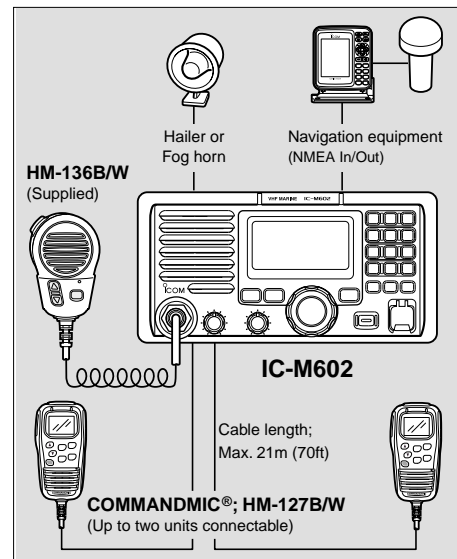


- **MB-75 FLUSH MOUNT KIT**  
For flush-mounting the IC-M602 to a flat surface such as a control panel.
- **HM-136B/W SMART-SPEAKER-MICROPHONE**  
Detachable waterproof speaker microphone. Same as supplied.
- **UT-112 VOICE SCRAMBLER UNIT**  
Enables private communication by scrambling your voice signal. Up to 32 scrambling codes are available. Not available in some countries.
- **OPC-999 EXTENSION CABLE FOR HM-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 allows you to control all functions of the IC-M602 (except DSC operation). You can talk with the IC-M602 as an intercom.  
Size (W×H×D): 63.5×125.0×31.4 mm; 2<sup>1</sup>/<sub>2</sub>×4<sup>2</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



## Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: 06 6793 5302 Fax: 06 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

Count on us!

### Icom America Inc.

<Corporate Headquarters>  
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.  
Phone: (425) 454-8155 Fax: (425) 454-1509  
URL : <http://www.icomamerica.com>  
<Customer Service> Phone : (425) 454-7619

### Icom Canada

Glenwood Centre #150-6165 Highway 17,  
Delta, B.C., V4K 5B8, Canada  
Phone: (604) 952-4266 Fax: (604) 952-0090  
URL : <http://www.icomcanada.com>

### Icom (Australia) Pty. Ltd.

A.B.N. 88 006 092 575  
290-294 Albert Street, Brunswick, Victoria, 3056, Australia  
Phone: 03 9387 0666 Fax : 03 9387 0022  
URL : <http://www.icom.net.au>

### Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand  
Phone: 09 274 4062 Fax : 09 274 4708  
URL : <http://www.icom.co.nz>

### Icom (Europe) GmbH

Communication Equipment  
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany  
Phone: 0211 346047 Fax : 0211 333639  
URL : <http://www.icomeurope.com>

### Icom Spain S.L.

Ctra. de Gracia a Manresa Km. 14,750  
08190 Sant Cugat del Valles Barcelona, SPAIN  
Phone: (93) 590 26 70 Fax : (93) 589 04 46  
URL : <http://www.icomspain.com>

### Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.  
Phone: 01227 741741 Fax : 01227 741742  
URL : <http://www.icomuk.co.uk>

### Icom France S.a

Zac de la Plaine, Rue Brindejonc des Moulinas  
BP 5804, 31505 Toulouse Cedex, France  
Phone: 011 36 03 03 Fax : 561 36 03 00  
URL : <http://www.icom-france.com>

### Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,  
Taipei, Taiwan, R.O.C.  
Phone: (02) 2559 1899 Fax : (02) 2559 1874  
URL : <http://www.asia-icom.com>

### Beijing Icom Ltd.

1305, Wanshang Plaza, Shijingshan Road,  
Beijing, China  
Phone: (010) 6866 6337 Fax : (010) 6866 3553



Certificate Number Q14190

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

Your local distributor/dealer: