



VHF MARINE TRANSCEIVER

IC-M602



Top Performance, Top features, Top Quality all in one VHF

Built-in ITU Class-D DSC

The IC-M602 has a continuous Ch70 watch function, while using another channel. Further, a single antenna connector allows VHF and Ch70 operation, thus simplifying installation. The 10-keypad allows simple and effective operation of the DSC emergency functions, vital for your safety at sea.

Superior receiver performance

The IC-M602 has excellent receive functions 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 increase the clarity of received calls.

Simultaneous connections of two COMMANDMIC®'s

The optional COMMANDMIC® provides 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 deck up to a max. distance of 21m* (70ft) from the IC-M602.

* Requires use of OPC-999 extension cables.

NMEA Input/Output

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

Waterproof construction

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

(1m/30min; except cables)



Icom Inc.

ADDITIONAL FEATURES

- 2-way hailer function with 22W amplifier built-in (Front/rear selectable)
- Auto fog horn function with selectable 4 patterns
- Detachable waterproof 'Smart-speaker-microphone'
- Dual/tri-watch function
- Instant access to Ch 16 and Ch 9 (or call channel)
- 7 levels plus off adjustable backlit display and keypad
- 4x8 inch flush mount design
- Auto WX scan and WX Alert function (U.S.A. version only)
- 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* (* U.S.A. version only)
- 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°C to $+60^{\circ}\text{C}$;
 -4°F to $+140^{\circ}\text{F}$
- Antenna impedance : 50 Ω (SO-239)
- Dimensions : 220(W) \times 110(H) \times 109.4(D) mm ;
8 $^{2}/_{32}$ (W) \times 4 $^{11}/_{32}$ (H) \times 4 $^{5}/_{16}$ (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: $\pm 5.0\text{kHz}$
- 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 $0.32\mu\text{V}$ (at 12dB SINAD)
- Squelch sensitivity : Less than $0.32\mu\text{V}$
- 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 4 Ω load)
- GPS interface : NMEA0183 ver. 2.0 or 3.01

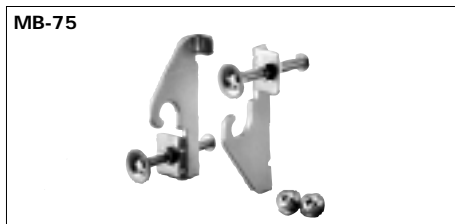
Supplied accessories:

- 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

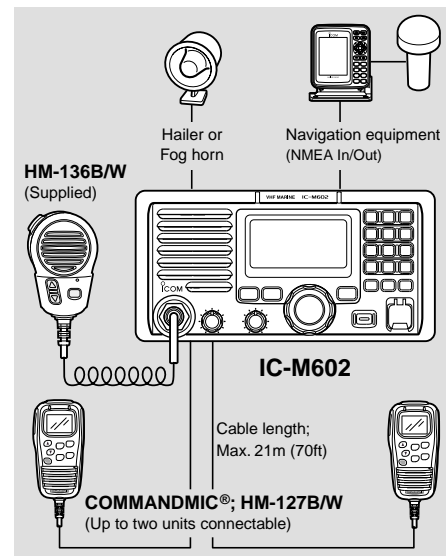


- **MB-75 FLUSH MOUNT KIT**
For flush-mounting the IC-M602 to a flat surface such as a control panel.
- **HM-136B/W SMART-SPEAKER-MICROPHONE**
Detachable waterproof speaker microphone. Same as supplied.
- **UT-112 VOICE SCRAMBLER UNIT**
Enables private communication by scrambling your voice signal. Up 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**
With slim dimensions, the COMMANDMIC[®] fits in your palm comfortably and with the 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 \times H \times D): 63.5 \times 125.0 \times 31.4 mm; 2 $^{1}/_{2}$ \times 4 $^{29}/_{32}$ \times 1 $^{1}/_{4}$ 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: 561 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: