



VHF MARINE TRANSCEIVER

IC-M602



Meets
MIL-STD 810

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 COMMANDMIC®'s

The optional COMMANDMIC® provides a 2nd and/or 3rd station capability and an intercom function. With slim dimension and sizeable 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.



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°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 ;
(proj. not included) 8 $^{2}\frac{1}{2}$ (W) \times 4 $^{1}\frac{1}{2}$ (H) \times 4 $^{3}\frac{1}{16}$ (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 -70dBc
- Residual modulation: More than 40dB
- Adjacent Ch. power : 70dB

RECEIVER

- Receiver system : Double conversion super-heterodyne
- Intermediate freq. : 1st 31.05MHz, 2nd 450kHz
DSC 1st 21.70MHz, 2nd 450kHz
- Sensitivity : Less than 0.32 μV (at 12dB SINAD)
- Squelch sensitivity : Less than 0.32 μV
- 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 Ω load
- GPS interface : NMEA0183 Ver. 2.0 or 3.0I

Applicable U.S. Military Specifications

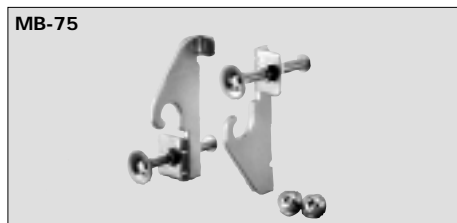
Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I	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, III
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, III, 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

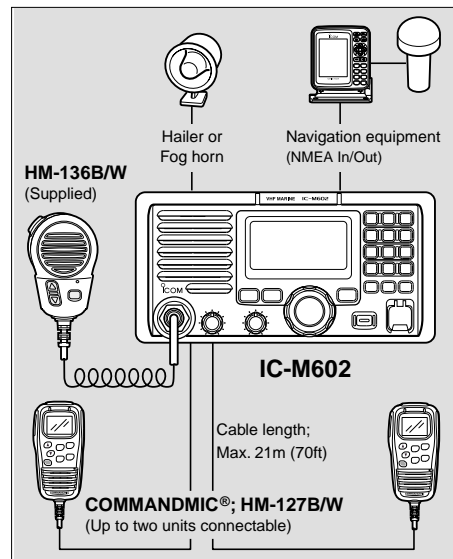


- **MB-75 FLUSH MOUNT KIT**
For flush-mounting the IC-M602 to a flat surface such as a control panel.
- **HM-136B/W SMART-SPEAKER-MICROPHONE**
Detachable waterproof speaker microphone. Same as supplied.
- **UT-112 VOICE SCRAMBLER UNIT**
Enables private communication by scrambling your voice signal. Up 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 \times H \times D): 63.5 \times 125.0 \times 31.4 mm; 2 $\frac{1}{2}$ \times 4 $^{2}\frac{3}{32}$ \times 1 $\frac{1}{4}$ in. Weight (approx.; except cables): 250 g ; 8.1 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: +81 (06) 6793 5302 Fax: +81 (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: +1 (425) 454-8155 Fax: +1 (425) 454-1509
URL : <http://www.icomamerica.com>
<Customer Service> Phone : +1 (425) 454-7619

Icom (Europe) GmbH
Communication Equipment
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany
Phone: +49 (0211) 346047 Fax: +49 (0211) 333639
URL : <http://www.icomeurope.com>

Asia Icom Inc.
6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C.
Phone: +886 (02) 2559 1899 Fax : +886 (02) 2559 1874
URL : <http://www.asia-icom.com>

Your local distributor/dealer:

Icom Canada
Glenwood Centre #150-6165 Highway 17,
Delta, B.C., V4K 5B8, Canada
Phone: +1 (604) 952-4266 Fax : +1 (604) 952-0090
URL : <http://www.icomcanada.com>

Icom Spain S.L.
Ctra. de Gracia a Manresa Km. 14,750
08190 Sant Cugat del Valles Barcelona, SPAIN
Phone: +34 (93) 590 26 70 Fax : +34 (93) 589 04 46
URL : <http://www.icomspain.com>

Beijing Icom Ltd.
1305, Wanshang Plaza, Shijingshan Road, Beijing, China
Phone: +86 (010) 6866 6337 Fax : +86 (010) 6866 3553
URL : <http://www.bjicom.com>

Icom (Australia) Pty. Ltd.
A.B.N. 88 006 092 575
290-294 Albert Street, Brunswick, Victoria, 3056, Australia
Phone: +61 (03) 9387 0666 Fax : +61 (03) 9387 0022
URL : <http://www.icom.net.au>

Icom (UK) Ltd.
Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.
Phone: +44 (01227) 741741 Fax : +44 (01227) 741742
URL : <http://www.icomuk.co.uk>



Certificate Number Q14190
Icom Inc. (Japan), is an ISO9001 certification acquired company.

Icom New Zealand
146A Harris Road, East Tamaki, Auckland, New Zealand
Phone: +64 (09) 274 4062 Fax : +64 (09) 274 4708
URL : <http://www.icom.co.nz>

Icom France S.a
Zac de la Plaine, 1, Rue Brindejonc des Moulinais
BP 5804, 31505 Toulouse Cedex, France
Phone: +33 (5) 61 36 03 03 Fax : +33 (5) 61 36 03 00
URL : <http://www.icom-france.com>