



VHF MARINE TRANSCEIVER

# IC-M422



Optional COMMANDMICII™,  
HM-157B

**FORCE 5 AUDIO™**

**Submersible**  
1m depth for 30 minutes



## Fully featured compact marine VHF



- Built-in DSC That Meets RTCM SC-101
- Individual, Group & All Ships Call
- Position Request & Position Report with a Third Party GPS Receiver
- Submersible Construction, Including Microphone (1m depth for 30 minutes\*)

\* Equivalent to IPX7 of the international standard IEC 60529 (2001).

- Public Address and RX Speaker Functions
- Simple Operation with Large Buttons
- Simple Tag Scanning Function
- Optional COMMANDMICII™ Provides 2nd Station Capability
- Loud Speaker Audio

**Icom Inc.**

**Built-in DSC meets RTCM SC-101**

Built-in DSC watch function monitors Ch 70 (DSC channel) activity, even while you are receiving another channel. In an emergency situation, a formatted distress call can be sent at the touch of a button.

**Digital Selective Calling Features**

DSC uses a unique ID (MMSI code) similar to a telephone number, allowing you to make contact with a specific boater or group of boaters in your area. A total of 100 address IDs can be stored with a 5-character name.

**Position Request and Position Report with External GPS Receiver**

With an external GPS receiver, the position request and position report functions allow you to exchange ships position. The received position information can be plotted on a third party GPS or other navigation equipment

which accepts NMEA data format. The polling (request/reply) function checks whether a specific ship is in the communication range.

**New public address (PA) and RX speaker functions**

Use the hand microphone as part of a public address system and make an announcement on-board or to shore through an external loud speaker or hailer. The RX speaker function allows you to monitor the received audio from the loud speaker or hailer while you are on the deck or tower.

**New optional COMMANDMICII™**

The new optional COMMANDMICII™ makes it convenient for using the IC-M422 from a separate cabin or tower. It allows you to control most functions\* of the IC-M422, including remote power ON/OFF, PA and RX speaker functions. (\*except DSC operation)

**Force 5 Audio**

The front facing speaker offers loud, crisp reception that is easy to hear, even over engine or wind noise.

**Local function**

The local function turns ON the attenuator and gives you the option to reduce interference from strong stations.

**And More**

- Submersible\* (1m depth for 30 minutes.) Equivalent to IPX7, except cables.
- Large 2-digit channel with scrolling names
- 7-step keypad backlighting
- 4-step LCD contrast
- Dualwatch and Tri-watch functions
- Super white and black versions available.
- Simple and easy tag scanning system
- NOAA weather channels with alert function
- Low voltage indicator for low battery alert

**SPECIFICATIONS****GENERAL**

- Frequency range : Tx 156.025–157.425MHz  
Rx 156.050–163.275MHz
- Usable channels : USA, CAN, INT, WX channels
- Type of emission : 16K0G3E (FM), 16K0G2B (DSC)
- Power supply requirement : 13.8V DC  $\pm 15\%$
- Current drain : Tx 5.5A (at 25W output)  
at 13.8V DC Rx 1.5A (at AF max.)
- 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 (W×H×D) : 164×78×139.3mm;  
(projections not included) 6 $\frac{15}{32}$ ×3 $\frac{1}{16}$ ×5 $\frac{15}{32}$  in.
- Weight (approx.) : 1070g; 2.4lb
- NMEA In/out formats : RMC, GGA, GNS, GLL

**TRANSMITTER**

- Output power : 25W, 1W (at 13.8V DC)
- Modulation system : Variable reactance freq. mod.
- Max. freq. deviation :  $\pm 5.0\text{kHz}$
- Frequency error :  $\pm 10\text{ppm}$  ( $-20^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ )
- Spurious emissions : Less than  $-70\text{dBc}$
- Residual modulation : More than 40dB
- Adjacent Ch. power : More than 70dB
- Audio frequency response :  $+1\text{dB}$  to  $-3\text{dB}$  of 6dB octave from 300Hz to 2500Hz

**Supplied accessories:**

- Hand microphone, HM-150B/SW
- DC power cable
- Mounting bracket kit

**RECEIVER**

- Intermediate freq. : 1st 21.7MHz, 2nd 450kHz
- Sensitivity : 0.22 $\mu\text{V}$  typical at 12dB SINAD
- Squelch sensitivity : Less than 0.22 $\mu\text{V}$
- Adjacent Ch. selectivity: More than 70dB
- Spurious response : More than 70dB
- Intermodulation : More than 70dB
- Hum and noise : More than 40dB
- Audio output power : 4.5W typical  
at 10% distortion with a 4 $\Omega$  load
- Audio frequency response :  $+1\text{dB}$  to  $-3\text{dB}$  of  $-6\text{dB}$  octave from 300Hz to 3000Hz

All stated specifications are subject to change without notice or obligation.

**OPTIONS****HM-157B/SW REMOTE-CONTROL MICROPHONE**

Up to 21.3m (70ft) of freedom from the IC-M422 with two OPC-999 extension cables. Allows you to control most functions of the IC-M422 including remote power ON/OFF, PA and PX speaker functions (except DSC operation).

Size (W×H×D): 63.5×125.0×31.4mm; 2 $\frac{1}{2}$ ×4 $\frac{29}{32}$ ×1 $\frac{1}{4}$  in.  
Weight (approx.; with 3m curl cable): 250g; 8.8oz

Supplied accessories :

- 6.1m (20ft) of cable
- Microphone hanger
- Mounting base for cable connector

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**OPC-999 EXTENSION CABLE FOR HM-157B/SW**

6.1m (20ft) of extension cable for additional lengthening for use with COMMANDMICII™. Up to two cables available.

**HM-150B/SW HAND MICROPHONE**

Super white and black are available. Same as supplied.

**MB-69 FLUSH MOUNT KIT**

For flush-mounting the IC-M422 to a flat surface.

**MB-69****COMMANDMICII™****HM-157B (Black)****HM-157SW (Super white)****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.**

2380 116th Avenue NE,  
Bellevue, WA 98004, U.S.A.  
Phone : +1 (425) 454-8155  
Fax : +1 (425) 454-1509  
E-mail : [sales@icomamerica.com](mailto:sales@icomamerica.com)  
URL : <http://www.icomamerica.com>

**Icom Canada**

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

**Icom (Australia) Pty. Ltd.**

A.B.N. 88 006 092 575  
Unit 1 / 103 Garden Road,  
Clayton VIC 3168 Australia  
Phone : +61 (03) 9549 7500  
Fax : +61 (03) 9549 7505  
E-mail : [sales@icom.net.au](mailto:sales@icom.net.au)  
URL : <http://www.icom.net.au>

**Icom New Zealand**

146A Harris Road, East Tamaki,  
Auckland, New Zealand  
Phone : +64 (09) 274 4062  
Fax : +64 (09) 274 4708  
E-mail : [inquiries@icom.co.nz](mailto:inquiries@icom.co.nz)  
URL : <http://www.icom.co.nz>

**Icom (Europe) GmbH**

Communication Equipment  
Himmelgeister Str. 100,  
D-40225 Düsseldorf, Germany  
Phone : +49 (0211) 346047  
Fax : +49 (0211) 333639  
E-mail : [info@icomeurope.com](mailto:info@icomeurope.com)  
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 : +34 (93) 590 26 70  
Fax : +34 (93) 590 46 46  
E-mail : [icom@icomspain.com](mailto:icom@icomspain.com)  
URL : <http://www.icomspain.com>

**Icom (UK) Ltd.**

Unit 9, Sea St., Herne Bay,  
Kent, CT6 8LD, U.K.  
Phone : +44 (01227) 741741  
Fax : +44 (01227) 741742  
E-mail : [info@icomuk.co.uk](mailto:info@icomuk.co.uk)  
URL : <http://www.icomuk.co.uk>

**Icom France S.a**

Zac de la Plaine, 1,  
Rue Brindejone des Moulins BP 5804,  
31505 Toulouse Cedex, France  
Phone : +33 (5) 61 36 03 03  
Fax : +33 (5) 61 36 03 00  
E-mail : [icom@icom-france.com](mailto:icom@icom-france.com)  
URL : <http://www.icom-france.com>

**Icom Polska**

Sopot, 3 maja 54, Poland  
Phone : +48 (58) 550 7135  
Fax : +48 (58) 551 0484  
E-mail : [icompolksa@icompolksa.com.pl](mailto:icompolksa@icompolksa.com.pl)  
URL : <http://www.icompolksa.com.pl>

**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  
E-mail : [sales@asia-icom.com](mailto:sales@asia-icom.com)  
URL : <http://www.asia-icom.com>

**Beijing Icom Ltd.**

10C07, Long Silver Mansion, No.88, Yong Ding  
Road, Haidian District, Beijing, 100039, China  
Phone : +86 (010) 5889 5391/5392/5393  
Fax : +86 (010) 5889 5395  
E-mail : [bjicom@bjicom.com](mailto:bjicom@bjicom.com)  
URL : <http://www.bjicom.com>



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