



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

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

**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 ±15%
- Current drain : Tx 5.5A (at 25W output) (at 13.8V DC) Rx 1.5A (at AF max.)
- Operating temp. range : -20°C to +60°C ; -4°F to +140°F
- Antenna impedance : 50Ω (SO-239)
- Dimensions (W×H×D) : 164×78×139.3mm; (projections not included) 6<sup>1</sup>/<sub>2</sub>×3<sup>1</sup>/<sub>16</sub>×5<sup>1</sup>/<sub>32</sub> 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 : ±5.0kHz
- Frequency error : ±10ppm (-20°C to +60°C)
- Spurious emissions : Less than -70dBc
- Residual modulation : More than 40dB
- Adjacent Ch. power : More than 70dB
- Audio frequency response : +1dB to -3dB of 6dB octave from 300Hz to 2500Hz

#### Supplied accessories:

- Hand microphone (Speaker function is not included)
- Mounting bracket kit
- DC power cable

### RECEIVER

- Intermediate freq. : 1st 21.7MHz, 2nd 450kHz
- Sensitivity : 0.22μV typical at 12dB SINAD
- Squelch sensitivity : Less than 0.22μV
- 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 4Ω load
- Audio frequency response : +1dB to -3dB of -6dB 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<sup>1</sup>/<sub>2</sub>×4<sup>29</sup>/<sub>32</sub>×1<sup>1</sup>/<sub>4</sub> 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



HM-157B (Black)

HM-157SW (Super white)

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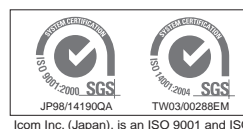
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