## VHF MARINE TRANSCEIVER

### IC-M85

#### General Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Output</strong></td>
<td>5/3/1 W (at 7.2 V DC) 2/1 W (at 7.2 V DC)</td>
</tr>
<tr>
<td><strong>Frequency Coverage</strong></td>
<td>156.025–157.425 MHz 160.000–162.975 MHz 163.000–174.995 MHz</td>
</tr>
<tr>
<td><strong>Usable Channel Groups</strong></td>
<td>USA, INT, CAN, WX channels 100 land mobile channels</td>
</tr>
<tr>
<td><strong>Frequency Accuracy</strong></td>
<td>±5.0 ppm 60–100% of maximum deviation ±2.5 kHz (Narrow) ±5.0 kHz (Wide)</td>
</tr>
<tr>
<td><strong>Modulation Limiting</strong></td>
<td>60–100% of maximum deviation</td>
</tr>
<tr>
<td><strong>Audio Harmonic Distortion</strong></td>
<td>34 dB (Narrow) 34 dB (Wide)</td>
</tr>
<tr>
<td><strong>FM Hum and Noise</strong></td>
<td>40 dB (Narrow) 40 dB (Wide)</td>
</tr>
<tr>
<td><strong>Adjacent Channel Selectivity</strong></td>
<td>70 dB typical 70 dB typical</td>
</tr>
<tr>
<td><strong>Spurious Response</strong></td>
<td>70 dB typical 70 dB typical</td>
</tr>
<tr>
<td><strong>Spurious Emissions</strong></td>
<td>70 dB typical 70 dB typical</td>
</tr>
<tr>
<td><strong>AM Spurious Emissions</strong></td>
<td>70 dB typical 70 dB typical</td>
</tr>
<tr>
<td><strong>Audio Output Power</strong></td>
<td>70 Vrms (typical) 70 Vrms (typical)</td>
</tr>
<tr>
<td><strong>Audio Harmonic Distortion</strong></td>
<td>34 dB (Narrow) 34 dB (Wide)</td>
</tr>
<tr>
<td><strong>Modulation Limiting</strong></td>
<td>60–100% of maximum deviation</td>
</tr>
<tr>
<td><strong>Receiver Sensitivity</strong></td>
<td>0.25 μV typical</td>
</tr>
<tr>
<td><strong>Adjacent Channel Selectivity</strong></td>
<td>70 dB typical 70 dB typical</td>
</tr>
<tr>
<td><strong>Spurious Response</strong></td>
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</table>

#### Environmental Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Standard Method</th>
<th>Procedure</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature</strong></td>
<td>High Temperature</td>
<td>50°C</td>
<td>I–C</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>High Humidity</td>
<td>95%</td>
<td>I–C</td>
</tr>
<tr>
<td><strong>Rain Blowing/Drip</strong></td>
<td>Rain Blowing/Drip</td>
<td>50°C</td>
<td>I–C</td>
</tr>
<tr>
<td><strong>Salt Fog</strong></td>
<td>Salt Fog</td>
<td>50°C</td>
<td>I–C</td>
</tr>
<tr>
<td><strong>Dust Blowing</strong></td>
<td>Dust Blowing</td>
<td>50°C</td>
<td>I–C</td>
</tr>
<tr>
<td><strong>Immersion</strong></td>
<td>Immersion</td>
<td>50°C</td>
<td>I–C</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
<td>Vibration</td>
<td>50°C</td>
<td>I–C</td>
</tr>
<tr>
<td><strong>Shock</strong></td>
<td>Shock</td>
<td>50°C</td>
<td>I, IV</td>
</tr>
<tr>
<td><strong>Temperature Shock</strong></td>
<td>Temperature Shock</td>
<td>50°C</td>
<td>I, IV</td>
</tr>
<tr>
<td><strong>Solar Radiation</strong></td>
<td>Solar Radiation</td>
<td>50°C</td>
<td>I</td>
</tr>
<tr>
<td><strong>Dust &amp; Water</strong></td>
<td>Dust &amp; Water</td>
<td>IP67</td>
<td>I</td>
</tr>
</tbody>
</table>

#### Options

- **BP-290**: Rechargeable Li-ion battery with intelligent reporting.
- **BP-291**: Rechargeable battery pack with intelligent reporting.

#### Connectable Type Changer

- **BC-238**: Charges all BC-224 and BC-226 units.
- **BC-239**: Connects up to six BP-290 units.

#### Antenna Impedance

- 50 ohms

#### Dimensions

- 56 × 92 × 29 mm; 2.2 × 3.6 × 1.1 in (With BP-290)

#### Belt Clips

- **WB-5**: Swivel-type
- **WB-6**: Long-type
- **AD-118**: Functions as INA-150, AD-151, and BC-221.

#### Connectable Type Changer

- **BC-236**
- **BC-237**
- **BC-238**
- **BC-239**

#### Belt Hangers

- **MB-916**: Swivel-type
- **MB-3**: Swivel-type

#### Carrying Cases

- **LC-187**: Hard-type
- **LC-188**: Hard-type

#### Belt Adapters

- **AD-119**: Functions as INA-150, AD-151, and BC-221.

#### Cigarette Lighter Power Supply Cables

- **CP-C24**: For use with the BC-224 or BC-227
- **OPC-101**: For use with the BC-219N or BC-227
- **OPC-105**: For use with the BC-234
- **FA-SO62**: For use with the BC-230

#### Power Supply Cables

- **CP-C28**: For use with the BC-224 or BC-227
- **CP-C24**: For use with the BC-219N or BC-227

#### Accessories

- **BC-225**: Charges six BP-290 units in 2.8 hours.
- **BC-226**: Charges up to six BP-290 units in 2.8 hours (approx.).
- **BC-228**: Charges the BP-290 in 2.7 hours.
- **BC-219N**: Charges up to six BP-290 units in 2.8 hours (approx.).
- **BC-214**: Charges up to six BP-290 units in 2.5 hours (approx.).

#### Temperature Range

- –4 °F to 140 °F
- –22 °F to 140 °F

#### Vibration and Shock Resistance

- Meets MIL-STD-810-C, -D, -E, and -F requirements.

#### Ingress Protection Standard

- **Dust & Water**: IP67 (Dust-tight and waterproof protection)
- **Shock**: IP67 (Dust-tight and waterproof protection)

#### Legal Compliance

- FCC and CE marked

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**For more information, visit www.icom.co.jp/world**

**Your local distributor/dealer:**

- **ICOM America Inc.**
- **ICOM Canada**
- **ICOM Brazil**
- **ICOM (Europe) GmbH**
- **ICOM Scandinavia AB**
- **ICOM Australia Pty. Ltd.**

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**ICOM, Inc.**

1-1105, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 www.icom.co.jp/world
Ultra Compact and Powerful Marine Handheld with Land Mobile Features

Compact and Lightweight
The IC-M85 is the most compact (W×HxD: 56 x 92 x 29 mm; 2.2 x 3.6 x 1.1 in) and lightweight (weight: 246 g: 8.7 oz (with BP-290, FA-SC58V and MBB-3)) commercial grade marine and land mobile hybrid radio in the world'.

Automated Emergency Alarm
The IC-M85 has three emergency related functions: the MOB Alarm, Man Down and Lone Worker functions. If one of these functions are activated, the radio automatically makes an emergency alarm.

Covering 136–174 MHz Land Mobile Frequency
In addition to VHF marine channels, the IC-M85 covers 136–174 MHz land mobile channels. Up to 100 programmable channels are available for land mobile use. Each channel is programmable with CTCSS and DTCS tone.

Instant Operation with Multi-Function Button
Channel group changing (marine or land mobile) or the scrambler function ON/OFF can be assigned in the multi-function button on the top panel*. The Key lock function can be activated by holding the button.

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700 mW Powerful Audio
Despite its compact body, the IC-M85 delivers 700 mW of loud audio. Clear communications is vital in noisy environments.

IP67 and MIL-STD Rugged Construction
The IC-M85 is built durable to endure 1 m submersion for 30 minutes and dust-tight protection. The radio also passes MIL-STD-810 specifications.

Private Conversation
The radio has a built-in Voice Scrambler and provides private communication between stations (32-code, compatible with UT-112 voice scrambler unit).

And More
AquaQuake™ prevents audio degradation from a water-logged speaker. Internal VOX capability for hands-free operation. 14 hours of long battery life (TX: RX: Standby=5:5:90.) 5 W output power (land mobile channels for USA; 2 W) Weather channel receiving. The self check function checks internal temperature, and connected battery voltage (over voltage detection) Monitor function. Priority scan function Dual/Tri-watch function for monitoring CH16 and/or call channel. Favorite channel function for quick access to often used channels

VHF MARINE TRANSCEIVER
IC-M85

Variety of Audio Accessories
Submersible Speaker-Microphones
- Submersible Speaker-Microphones
- Submersible Speaker-Microphones

Hands-Free Operation with Headsets
- Hands-Free Operation with Headsets
- Hands-Free Operation with Headsets

Earphones and Speaker Microphones for Noisy Environments
- Earphones and Speaker Microphones for Noisy Environments
- Earphones and Speaker Microphones for Noisy Environments

Stylish Operation with Tie-Clip Microphone and Earphones
- Stylish Operation with Tie-Clip Microphone and Earphones
- Stylish Operation with Tie-Clip Microphone and Earphones

Covert Earphone
- Covert Earphone
- Covert Earphone

VHF MARINE TRANSCEIVER
IC-M85

Supplied accessories:
- Supplied accessories:
- Supplied accessories:

* SA for USA plug. ** for Europe plug.