OPTIONS



IC-M85E

SPECIFICATIONS

| | | IC-M85E | |
|---|------------------|---|--|
| GENERAL | | Marine channels | PMR channels |
| Frequency coverage Tx Rx | | 156.000–161.450 MHz 156.000–163.425 MHz | 136.000–174.000 MHz |
| Usable channel groups, Number of channels | | INT, USA* channels (* Varies according to version) | 100 PMR channels |
| Type of emissions | EUR, UK FRG | 16K0G3E | 16K0F3E/8K50F3E 14K0F3E/8K50F3E |
| Channel spacing | FRG | 25 kHz | 25/12.5 kHz 20/12.5 kHz |
| Power supply requirement | | 7.2 V DC nominal | |
| Current drain (approximate) Tx (at 5 W) Rx Max. audio | | 1.5 A 0.45 A | |
| Antenna impedance | | 50 Ω | |
| Operating temperature range | | −15 °C to +55 °C | -25 °C to +55 °C |
| Dimensions (W×H×D) (Projections not included) | | $56\times92\times29$ mm (With BP-290) | |
| Weight (approximate) | | 246 g (with BP-290, FA-SC58V and MBB-3) | |
| TRANSMITTE | R | | |
| Output power (at 7.2 V DC) | | 5/3/1 W | 5/3/1 W |
| Max. frequency deviation | / EUR, UK FRG | ±5.0 kHz | ±5.0 kHz (Wide) ±2.5 kHz (Narrow) ±4.0 kHz (Wide) ±2.5 kHz (Narrow) |
| Frequency stability | | ±1.5 kHz | |
| Spurious emissions | | 0.25 μW (≤2 GHz),1.0 μW (>2 GHz) | |
| Residual modulation | | 40 dB | 40 dB (Wide) 34 dB (Narrow) |
| Audio harmonic distortion | | 10% (at 60% deviation) | |
| Modulation lim | iting | 60–100% of ma | ximum deviation |
| RECEIVER | | | |
| Sensitivity (at 20 dB SINAD) | | -4 dBµ emf typical | -4 dBµ emf typical (Wide -2 dBµ emf typical (Narrow |
| Adjacent channel selectivity | | 70 dB | 70 dB (Wide) 60 dB (Narrow) |
| Spurious response | | 70 dB | |
| Intermodulation | | 68 dB | 65 dB |
| Hum and noise | | 40 dB | 40 dB (Wide), 34 dB (Narrov |
| Audio output | | 700 mW typical (at 10% diste | |
| power | External SP | 700 mW typical (at 10% dist | ortion with 8 Ω load at 1 kHz) |

Applicable U.S. Military Specifications & IP Rating

| Standard | MIL 810 G | | |
|-------------------|-----------|-----------|--|
| Standard | Method | Procedure | |
| Low Pressure | 500.5 | I, II | |
| High Temperature | 501.5 | I, II | |
| Low Temperature | 502.5 | I, II | |
| Temperature Shock | 503.5 | I–C | |
| Solar Radiation | 505.5 | I | |
| Rain Blowing/Drip | 506.5 | I, III | |
| Humidity | 507.5 | II | |
| Salt Fog | 509.5 | - | |
| Dust Blowing | 510.5 | I | |
| Immersion | 512.5 | I | |
| Vibration | 514.6 | I | |
| Shock | 516.6 | I, IV | |

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IP67 (Dust-tight and waterproof protection)

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IC-M85E

VHF MARINE TRANSCEIVER

Ultra Compact and Powerful Marine Handheld with PMR Features







[Actual Size]



VHF MARINE TRANSCEIVER IC-M85E

Compact and Lightweight

The IC-M85E is the most compact (W×H×D: 56 × 92 × 29 mm) and lightweight (weight: 246 g (with BP-290, FA-SC58V and MBB-3)) commercial grade marine and land mobile hybrid radio in the world*. * As of November 2017, researched by Icom.

Covering 136–174 MHz ((•)) **PMR Frequency**

In addition to VHF marine channels, the IC-M85E covers 136-174 MHz PMR channels. Up to 100 programmable channels are available for PMR use. Each channel is programmable with CTCSS and DTCS tone.

/ n \

Automated Emergency Alarm

The IC-M85E 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.

Instant Operation with Multi-Function Button

Channel group changing (Marine \Leftrightarrow PMR) 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. * Ask your dealer for details.



Multi-function button

700 mW Powerful Audio

Despite its compact body, the IC-M85E delivers

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).

Supplied accessories;



* SE for Europe plug. SUK for UK plug. SV for Australia plug.



Hand stran



700 mW of loud audio. Clear communications is vital in noisy environments.

IP67 and MIL-STD Rugged Construction

The IC-M85E is built durable to endure 1 m submersion for 30 minutes and dust-tight protection. The radio also passes MIL-STD-810 specifications.



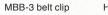
And More

□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
- 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 DFavorite channel function for quick access to often used channels





Variety of Audio Accessories

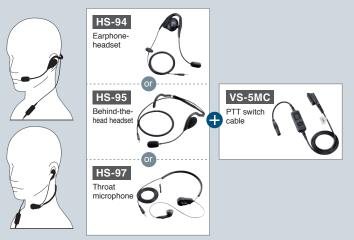
Waterproof Speaker-Microphones

HM-236



HM-222 With 3.5 mm earphone i

Hands-Free Operation with Headsets



Earphones and Speaker Microphones for Noisy Environments



Stylish Operation with Tie-Clip Microphone and Earphones

