## OPTIONS

**BATTERY PACK AND CASE**

**BP-290** Rechargeable Li-ion battery with intelligent reporting. 1910 mAh (min.) 2010 mAh (typ.). IP67 Waterproof

**BP-291** Battery case LR6 (AA) × 5. IP54 Water resistance

**MULTI-CHARGER**

**AD-132N**

**BC-214**

**BC-157S**

Charges up to six BP-290 batteries in 2.8 hours (approx.). AD-132N is supplied with BC-214, depending on version.

**CONNECTABLE TYPE CHARGER**

**BC-226**

**BC-228**

Charges the BP-290 in 2.7 hours. (approx.)

Connects up to six BC-226 units.

**INTELLIGENT CHARGER**

**BC-225** **BC-123S***
Shows the charging information with LED lighting. Charges the BP-290 in 2.5 hours. (approx.)

**DESKTOP CHARGERS**

**BC-227** **BC-123S***
Charges the BP-290 in 2.7 hours. (approx.)

**BC-219N** **BC-123S***
Charges the BP-290 in 2.5 hours. (approx.)

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

**BELT CLIPS**

**MBB-3** Alligator type.



**MB-136** Swivel type.

**BELT HANGERS**

**MB-96N** Swivel type.

**MB-96F** Fixed type.

**MB-96FL** Long type.

**ACC ADAPTOR**

**AD-118**
14-pin multi-connector to 6-pin Hirose connector

**CARRYING CASES**

**LC-187** Hard type.

**LC-188** Hard type.
Charging is possible while the case is attached.

**CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES**

**CP-23L**
For use with the BC-219N or BC-227.

**OPC-515L**
For use with the BC-219N, BC-225 or BC-227.

**OPC-656**
For use with the BC-214.

**ANTENNA**

**FA-SC58V**

**SOFTWARE**
• **RS-BC225** : Intelligent charger software for Windows® PC. For use with BC-225.

## SPECIFICATIONS

| | | IC-M85E | |
|---|---|---|---|
| **GENERAL** | | **Marine channels** | **PMR channels** |
| Frequency coverage | Tx | 156.000–161.450 MHz | 136.000–174.000 MHz |
| | Rx | 156.000–163.425 MHz | |
| Usable channel groups, Number of channels | | INT, USA* channels (* Varies according to version) | 100 PMR channels |
| Type of emissions | EUR, UK | 16K0G3E | 16K0F3E/8K50F3E |
| | FRG | | 14K0F3E/8K50F3E |
| Channel spacing | EUR, UK | 25 kHz | 25/12.5 kHz |
| | FRG | | 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 × 92 × 29 mm (With BP-290) | |
| Weight (approximate) | | 246 g (with BP-290, FA-SC58V and MBB-3) | |
| **TRANSMITTER** | | | |
| Output power (at 7.2 V DC) | | 5/3/1 W | 5/3/1 W |
| Max. frequency deviation | EUR, UK | ±5.0 kHz | ±5.0 kHz (Wide) ±2.5 kHz (Narrow) |
| | FRG | | ±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 limiting | | 60–100% of maximum 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 (Narrow) |
| Audio output power | Internal SP | 700 mW typical (at 10% distortion with 12 Ω load at 1 kHz) | |
| | External SP | 700 mW typical (at 10% distortion with 8 Ω load at 1 kHz) | |

**Measurements made in accordance with EN 301-178 or EN 300 086.**
**All stated specifications are subject to change without notice or obligation.**

### Applicable U.S. Military Specifications & IP Rating

| Standard | MIL 810 G | |
|---|---|---|
| | **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 |

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

| Ingress Protection Standard | |
|---|---|
| Dust & Water | IP67 (Dust-tight and waterproof protection) |

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ICOM

# IC-M85E

VHF MARINE TRANSCEIVER

# *Marine and PMR Hybrid for Professional Use*

# *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.

## 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.

## 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.

## Instant Operation with Multi-Function Button

Channel group changing (Marine⇔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.

## 700 mW Powerful Audio

Despite its compact body, the IC-M85E delivers 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.

## 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
- ☐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

**Supplied accessories;**

BP-290 battery pack

BC-227 rapid charger

BC-123S* AC adapter

FA-SC58V antenna

MBB-3 belt clip

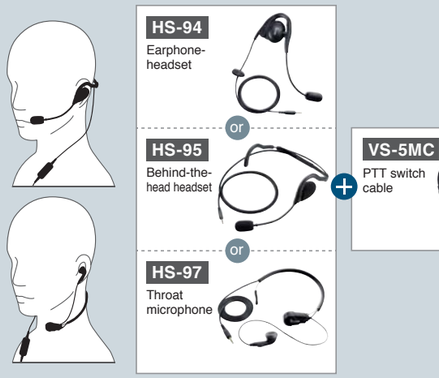
Hand strap

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

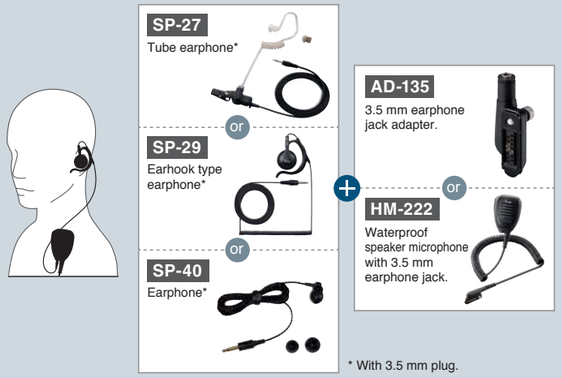
## Variety of Audio Accessories

### Waterproof Speaker-Microphones

### Hands-Free Operation with Headsets

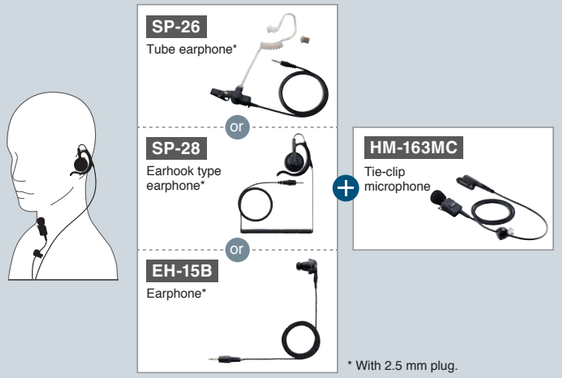


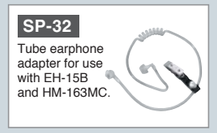

### Earphones and Speaker Microphones for Noisy Environments




* With 3.5 mm plug.

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




* With 2.5 mm plug.

### Covert Earphone