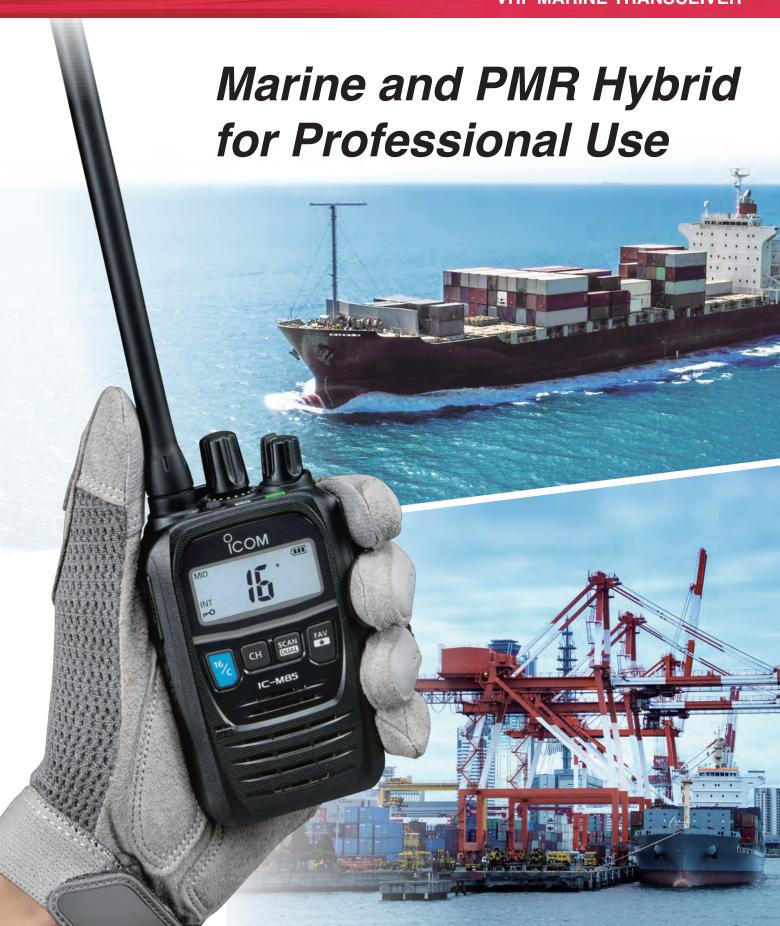


IC-M85E

VHF MARINE TRANSCEIVER



Ultra Compact and Powerful with PMR Features



C-M85E



Compact and Lightweight

The IC-M85E is the most compact (W×H×D: 56 × 92 × 36.2 mm) and lightweight (weight: 281 g (with BP-294, FA-SC58V and MBB-3)) commercial grade marine and land mobile hybrid radio in the world*. * As of December 2021, 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.



700 mW Powerful Audio

Despite its compact body, the IC-M85E delivers 700 mW of loud audio. Clear communications is vital in noisy environments.



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;









BP-294 battery pack BC-227 rapid charger BC-123S* AC adapter FA-SC58V antenna * SE for Europe plug. SUK for UK plug. SV for Australia plug

Marine Handheld



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 ⇔ 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.





Multi-function button



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
- 21 hours of long battery life with BP-294 (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
- Supports 4-digit channels





MBB-3 belt clip

Hand strap

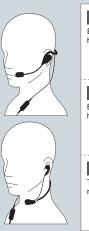
Variety of Audio Accessories

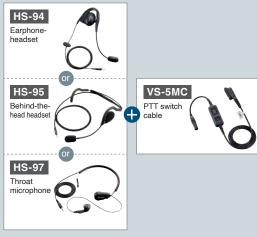
Waterproof Speaker-Microphones





Hands-Free Operation with Headsets





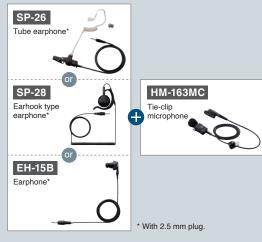
Earphones and Speaker Microphones for Noisy Environments





Stylish Operation with Tie-Clip Microphone and Earphones





Covert Earphone



OPTIONS



BP-294 Li-ion battery with intelligent reporting. 3050 mAh (min.) 3150 mAh (tvp.). IP67 Waterproof

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



Charges up to six BP-294 batteries in 5.3 hours (approx.). AD-132N is supplied with BC-214N, depending on version.



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





MB-96N Swivel type



Fixed type. Long type.



14-pin multi-connector to 6-pin Hirose connector

ANTENNA



Hard type Hard type Charging is possible while the case is attached.

CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES



For use with the BC-219N or BC-227.



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

For use with the BC-214/N



SOFTWARE

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

SPECIFICATIONS

		IC-N	185E
GENERAL		Marine channels	PMR channels
Frequency	EUR, UK FRG, HOL	Tx:156.000-161.450 MHz Rx:156.000-163.425 MHz	Tx/Rx:136.000-174.000 MHz
coverage	AUS	Tx:156.025-157.425 MHz Rx:156.300-162.025 MHz	Tx/Rx: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, AUS FRG, HOL	16K0G3E	16K0F3E/8K50F3E 14K0F3E/8K50F3E
Channel spacing		25 kHz	25/12.5 kHz 20/12.5 kHz
Power supply re-		7.2 V DC nominal	
Current drain (ap		Tx:1.5 A (at 5 W)/Rx:0.45 A (Max.audio)	
Antenna impeda	nce	50 Ω	
Operating temperature	EUR, UK FRG, HOL	−15 °C to +55 °C	–25 °C to +55 °C
range	AUS	−10 °C to +55 °C	-10 °C to +50 °C
Dimensions (Wx	H×D)	$56 \times 92 \times 36.2 \text{ mm}$ (With BP-2	294) (Projections not included)
Weight (approxim	ate)	281 g (with BP-294, 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, ÁUS FRG, HOL	±5.0 kHz	±5.0 kHz (Wide), ±2.5 kHz (Narrow) ±4.0 kHz (Wide), ±2.5 kHz (Narrow)
Frequency	EUR, UK FRG, HOL	±1.5 kHz	
stability	AUS	±1.5 kHz	±1.5 kHz
Spurious emissions	EUR, UK FRG, HOL	0.25 μW (≤2 GHz),1.0 μW (>2 GHz)	
	AUS	−70 dBc typ.	
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 typ. (Wide)-2 dBμ emf typ. (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 Internal SP power External SP		700 mW typical (at 10% distortion with 12 Ω load at 1 kHz) 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	
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

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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