



VHF MARINE TRANSCEIVER



Ultra Compact and Powerful with Land Mobile Features





Compact and Lightweight

The IC-M85 is the most compact (W×H×D: $56 \times 92 \times 29$ mm; $2.2 \times 3.6 \times 1.1$ 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*.

* As of November 2017, researched by Icom.



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.



700 mW Powerful Audio

Despite its compact body, the IC-M85 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).

VHF MARINE TRANSCEIVER

C-M85

Supplied accessories;





BP-290 battery pack BC-227 rapid charger

Marine Handheld



Automated Emergency Alarm

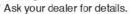
The IC-M85 has three emergency related functions: the MOB Alarm. Man Down and Lone Worker functions. If one of these functions are activated, the radio automatically makes an emergency alarm.



Instant Operation with Multi-Function Button

Channel group changing (marine ⇔ 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.





Multi-function



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.



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









BC-123S* AC adapter FA-SC58V antenna MBB-3 belt clip

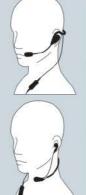
Variety of Audio Accessories

Submersible Speaker-Microphones





Hands-Free Operation with Headsets





Earphones and Speaker Microphones for Noisy Environments





Stylish Operation with Tie-Clip Microphone and Earphones







* With 2.5 mm plug.

Covert Earphone



OPTIONS



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



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



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



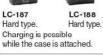
CARRYING CASES

















the BC-219N,



SPECIFICATIONS

		IC-M85	
GENERAL		Marine channels	Land mobile channels
Frequency co	verage Tx Rx	156.025–157.425 MHz 156.050–163.275 MHz	136.000-174.000 MHz
Usable channel groups, Number of channels		USA, INT, CAN, WX channels	100 land mobile channels
Type of emissions		16K0G3E	16K0F3E/11K0F3E
Channel spacing		25 kHz	25 kHz/12.5 kHz
Power supply requirement		7.2 V DC nominal	
	Tx USA EXP	1.5 A (at 5 W)	0.9 A (at 2 W) 1.5 A (at 5 W)
	Rx Max. audio	0.45 A	
Antenna impedance		50 Ω	
Operating temperature range		–20 °C to +60 °C; –4 °F to +140 °F	-30 °C to +60 °C; -22 °F to +140 °F
Dimensions (W×H×D) (Projections not included)		56 x 92 x 29 mm; 2.2 x 3.6 x 1.1 in (With BP-290)	
Weight (approximate)		246 g; 8.7 oz (with BP-290, FA-SC58V and MBB-3)	
TRANSMITTI	ER		
Output power (at 7.2 V DC)	USA	5/3/1 W	2/1 W 5/3/1 W
Max. frequence	cy deviation	±5.0 kHz	±5.0 kHz (Wide) ±2.5 kHz (Narrow)
Frequency stability		±5.0 ppm	
Spurious emissions		-70 dBc typical	
FM hum and r	noise	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	12 dB SINAD)	0.25 μV	typical
Adjacent channel selectivity		70 dB typical	70 dB typical (Wide) 55 dB typical (Narrow)
Spurious response		70 dB typical	
Intermodulation		70 dB typical	
Audio output power	Internal SP		% distortion with 12 Ω load) % distortion with 8Ω load)

Measurements made in accordance with TIA/EIA-603.

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	п
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)

SOFTWARE

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

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