

VHF MARINE TRANSCEIVER



Ultra Compact and Powerful with Land Mobile Features





Compact and Lightweight

The IC-M85 is the most compact (W×H×D: $56 \times 92 \times 36.2$ mm; $2.2 \times 3.6 \times 1.4$ in) and lightweight (weight: 281 g; 9.9 oz (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 **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

Supplied accessories;





BP-294 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

* Ask your dealer for details.

holding the button.







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
- 21 hours of long battery life with BP-294 (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

* SA for USA plug. SE for Europe plug









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

Variety of Audio Accessories

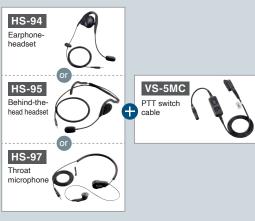
Submersible Speaker-Microphones





Hands-Free Operation with Headsets





Earphones and Speaker Microphones for Noisy Environments





Stylish Operation with Tie-Clip Microphone and Earphones



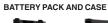


Covert Earphone



and HM-163MC.

OPTIONS





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



BP-291 Battery case LR6 (AA) \times 5. IP54 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.



Alligator type. Swivel type.



BELT HANGERS

MB-96N Swivel type.







LC-187 LC-188 Hard type Hard type Charging is possible while the case is attached.



BC-227



ACC ADAPTOR

SPECIFICATIONS

	IC-M85		
GENERAL	Marine channels	Land mobile channels	
Frequency coverage 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		
Current drain Tx USA EXP	1.5 A (at 5 W)	0.9 A (at 2 W) 1.5 A (at 5 W)	
(approximate) 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 × 92 × 36.2 mm; 2.2 × 3.6 × 1.4 in (With BP-294)		
Weight (approximate)	281 g; 9.9 oz (with BP-294, FA-SC58V and MBB-3)		
TRANSMITTER			
Output power USA (at 7.2 V DC) EXP	5/3/1 W	2/1 W 5/3/1 W	
Max. frequency 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 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 Internal SP	700 mW typical (at 10% distortion with 12 Ω load)		
power External SP	700 mW typical (at 10	% distortion with 8 Ω 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	
	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)

SOFTWARE

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

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries. AQUAQUAKE is a trademark of Icom Incorporated. Windows is either a registered trademark or a trademark of Microsoft Corporation in the United States and/or other countries. All other trademarks are the properties of their respective holders.

Icom Inc.

1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

www.icomjapan.com

Your local distributor/dealer:

Icom America Inc. www.icomamerica.com

Icom Canada www.icomcanada.com

Icom Brazil

E-mail: sales@icombrazil.com

Icom (Europe) GmbH www.icomeurope.com

Icom Spain S.L. www.icomspain.com

Icom (UK) Ltd. www.icomuk.co.uk

Icom France s.a.s. www.icom-france.com

Icom (Australia) Pty. Ltd. www.icom.net.au

Icom Asia Co., Ltd. www.icomasia.com

Shanghai Icom Ltd. www.bjicom.com