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VHF MARINE TRANSCEIVER

A Marine and Land Mobile Radio Combined in One

Ultra Compact and Powerful with Land Mobile Features







[Actual Size]





Compact and Lightweight

The IC-M85 is the most compact (W×H×D: 56 × 92 × 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).

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.



* Ask your dealer for details.



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



IC-M85

IC-M85

OPTIONS



Spurious response		70 dB typical					
Intermodulation		70 dB typical					
Audio output Internal SP		700 mW typical (at 10	% distortion with 1				
power	External SP	700 mW typical (at 10	% distortion with				
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							
Applicable	U.S. MIIIta	ary Specifications & IP	Rating				
	U.S. MIIIta	ary Specifications & IP	-				
Standard	U.S. Milita		-				
	U.S. MIIIta	MIL 810	G				
Standard		MIL 810 Method	G				
Standard Low Pressure	re	MIL 810 Method 500.5	G				
Standard Low Pressure High Temperatur	re	MIL 810 Method 500.5 501.5	G				
Standard Low Pressure High Temperatur Low Temperatur	re	MiL 810 Method 500.5 501.5 502.5	G				
Standard Low Pressure High Temperatur Low Temperature Sh	re e ock	MiL 810 500.5 501.5 502.5 503.5	G				

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

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GENERAL			Marine channels	Land mobile channels	
Frequency coverage Tx Rx		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		s	16K0G3E	16K0F3E/11K0F3E	
Channel spacing			25 kHz	25 kHz/12.5 kHz	
Power supply	y rec		7.2 V DC nominal		
Current drain	Тх	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 imp	edai	nce	50 Ω		
Operating temperature range		0	−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 × 29 mm; 2.2 × 3.6 × 1.1 in (With BP-290)		
Weight (approximate)		ate)	246 g; 8.7 oz (with BP-290, FA-SC58V and MBB-3)		
TRANSMITT	ER				
Output powe (at 7.2 V DC)	er _	USA EXP	5/3/1 W	2/1 W 5/3/1 W	
Max. frequency deviation		leviation	±5.0 kHz	±5.0 kHz (Wide) ±2.5 kHz (Narrow)	
Frequency st	tabili	ty	±5.0 ppm		
Spurious emissions		ons	-70 dBc typical		
FM hum and noise		е	40 dB	40 dB (Wide) 34 dB (Narrow)	
Audio harmo	nic o	distortion	10% (at 60% deviation)		
Modulation li	imitir	ng	60–100% of maximum deviation		
RECEIVER					
Sensitivity (at 12 dB SINAD)		B SINAD)	0.25 μV typical		
Adjacent channel selectivity		selectivity	70 dB typical	70 dB typical (Wide) 55 dB typical (Narrow)	
Spurious response		е	70 dB typical		
Intermodulation			70 dB typical		
Audio output Internal SP			700 mW typical (at 10% distortion with 12 Ω load)		
power External SP		ternal SP	700 mW typical (at 10% distortion with 8 Ω load)		
Measurements made in accordance with TIA/FIA_603					

Other shared	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	Ι		
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)			