

**VHF MARINE TRANSCEIVER** 









# **Compact and Lightweight**

The IC-M85 is the most compact (W $\times$ H $\times$ 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

in the multi-function button on the top panel\*. The Key lock function can be activated by holding the button.





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<sup>™</sup> 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

\* SA for USA plug. SE for Europe plug.









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

#### Hand strap

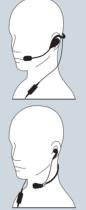
# **Variety of Audio Accessories**

# Submersible Speaker-Microphones



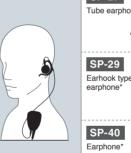


## Hands-Free Operation with Headsets





## 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

RP-291 Battery case LR6 (AA)  $\times$  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.

#### 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 DESKTOP CHARGERS BC-123S\* BC-123S BC-123S BC-225 BC-227 BC-219N Charges the BP-290 Charges the BP-290 Shows the charging information with LED lighting. Charges in 2.7 hours. (approx.) in 2.5 hours. (approx.) the BP-290 in 2.5 hours. (approx.) SE for Europe plug. SUK for UK plug. SV for Australia plug.







BELT HANGERS







ACC ADAPTOR

CARRYING CASES

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



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



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

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FA-SC58V

## **SPECIFICATIONS**

			IC-N	<b>//85</b>	
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		
drain	V	SA KP	1.5 A (at 5 W)	0.9 A (at 2 W) 1.5 A (at 5 W)	
(approximate)	Rx Max. audio		0.4	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)			$56 \times 92 \times 29$ mm; $2.2 \times 3.6 \times 1.1$ in (With BP-290)		
Weight (approximate)			246 g; 8.7 oz (with BP-290, FA-SC58V and MBB-3)		
TRANSMITT	ER				
Output power		SA (P	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 power External SP			700 mW typical (at 10% distortion with 12 $\Omega$ load) 700 mW typical (at 10% distortion with 8 $\Omega$ 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	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.

www.icom.co.jp/world

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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