

VHF MARINE TRANSCEIVER



Ultra Compact and Powerful Marine Handheld with PMR Features







VHF MARINE TRANSCEIVER

IC-M85E



Compact and Lightweight

The IC-M85E is the most compact (W×H×D: 56 × 92 × 29 mm) and lightweight (weight: 246 g (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 **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.



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. * Ask your dealer for details.





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.





Private Conversation

BP-290 battery pack BC-227 rapid charger BC-123S* AC adapter FA-SC58V antenna

The radio has a built-in Voice Scrambler and provides private communication between stations (32-code, compatible with UT-112 voice scrambler unit).



- 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
- •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

Supplied accessories;





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







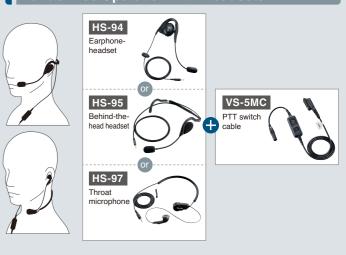
Variety of Audio Accessories

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

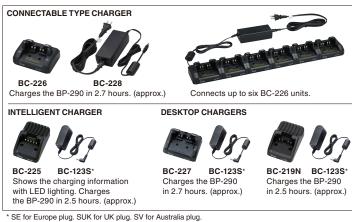


BP-290 Rechargeable Li-ion battery with intelligent reporting. 1910 mAh (min.) 2010 mAh (typ.). IP67 Waterproof





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





Swivel type Alligator type.



BELT HANGERS

MB-96N Swivel type



Fixed type. Long type.



6-pin Hirose connector

CARRYING CASES LC-188 LC-187

Hard type Charging is possible while the case is attached





or BC-227.



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



the BC-214.

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FA-SC58V

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

SPECIFICATIONS

		IC-N	185E
GENERAL		Marine channels	PMR channels
Frequency coverage Tx Rx		156.000-161.450 MHz 156.000-163.425 MHz	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 FRG	16K0G3E	16K0F3E/8K50F3E 14K0F3E/8K50F3E
Channel spacing	EUR, UK FRG	25 kHz	25/12.5 kHz 20/12.5 kHz
Power supply requirement		7.2 V DC	
Current drain (approximate) Tx (at 5 W) Rx Max. audio		1.5 A 0.45 A	
Antenna impedance		50 Ω	
Operating temperature range		−15 °C to +55 °C	−25 °C to +55 °C
Dimensions (W×H×D) (Projections not included)		56 × 92 × 29 mm (With BP-290)	
Weight (approxim	ate)	246 g (with BP-290, FA-SC58V and MBB-3)	
TRANSMITTER	ł		
Output power (at 7.2 V DC)		5/3/1 W	5/3/1 W
Max. frequency deviation	EUR, UK	±5.0 kHz	±5.0 kHz (Wide) ±2.5 kHz (Narrow)
	FRG		±4.0 kHz (Wide) ±2.5 kHz (Narrow)
Frequency stabi		±1.5 kHz	
Spurious emissions		0.25 μW (≤2 GHz),1.0 μW (>2 GHz)	
Residual modula	ation	40 dB	40 dB (Wide) 34 dB (Narrow)
Audio harmonic		10% (at 60% deviation)	
Modulation limit	ing	60-100% of maximum deviation	
RECEIVER			
Sensitivity (at 20 dB SINAD)		-4 dBµ emf typical	-4 dBµ emf typical (Wide) -2 dBµ emf typical (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)	
		ance with EN 301-178 or EN 300	,

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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