

OPTIONS

BATTERY PACK AND CASE

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

BP-291
Battery case LR6 (AA) x 5. IP54 Water resistance

MULTI-CHARGER

AD-132N

BC-214 **BC-157S**

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

BC-225 **BC-123S***

Shows the charging information with LED lighting. Charges the BP-290 in 2.5 hours. (approx.)

DESKTOP CHARGERS

BC-227 **BC-123S*** **BC-219N** **BC-123S***

Charges the BP-290 in 2.7 hours. (approx.) Charges the BP-290 in 2.5 hours. (approx.)

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

BELT CLIPS

MBB-3 **MB-136**

Alligator type. Swivel type.

BELT HANGERS

MB-96N **MB-96F** **MB-96FL**

Swivel type. Fixed type. Long type.

ACC ADAPTOR

AD-118

14-pin multi-connector to 6-pin Hirose connector

CARRYING CASES

LC-187 **LC-188**

Hard type. Hard type. Charging is possible while the case is attached.

CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES

CP-23L **OPC-515L** **OPC-656**

For use with the BC-219N or BC-227. For use with the BC-219N, BC-225 or BC-227. For use with the BC-214.

ANTENNA

FA-SC58V

SOFTWARE

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

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Your local distributor/dealer:

SPECIFICATIONS

IC-M85E		
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 nominal	
Current drain (approximate)		
Tx (at 5 W)	1.5 A	
Rx Max. audio	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 (approximate)	246 g (with BP-290, FA-SC58V and MBB-3)	
TRANSMITTER		
Output power (at 7.2 V DC)	5/3/1 W	5/3/1 W
Max. frequency deviation	EUR, UK FRG ±5.0 kHz	±5.0 kHz (Wide) ±2.5 kHz (Narrow) ±4.0 kHz (Wide) ±2.5 kHz (Narrow)
Frequency stability	±1.5 kHz	
Spurious emissions	0.25 μW (≤2 GHz), 1.0 μW (>2 GHz)	
Residual modulation	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 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 power	Internal SP 700 mW typical (at 10% distortion with 12 Ω load at 1 kHz) External SP 700 mW typical (at 10% distortion with 8 Ω load at 1 kHz)	

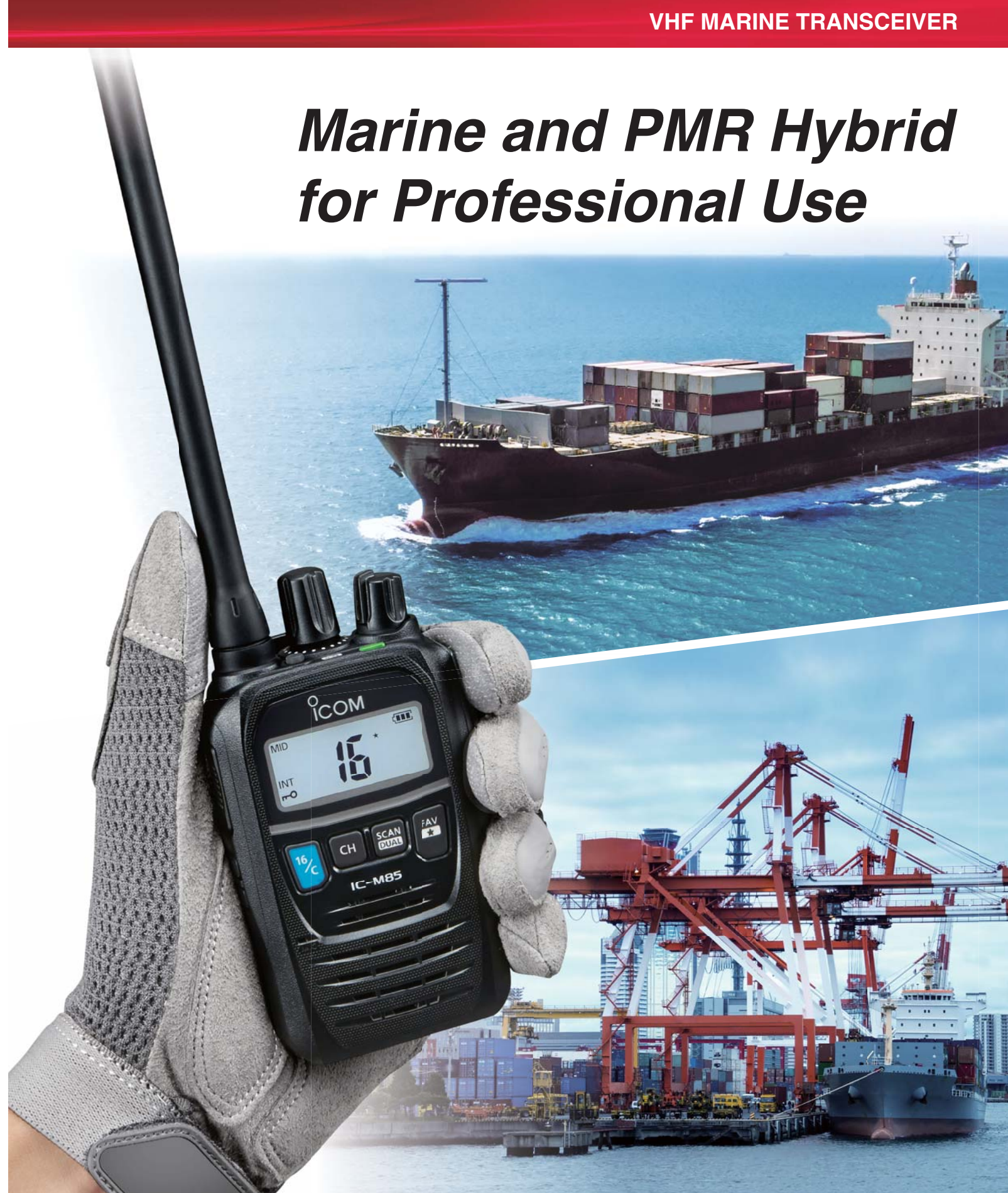
Measurements made in accordance with EN 301-178 or EN 300 086.
All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 G	
	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)



Marine and PMR Hybrid
for Professional Use

Ultra Compact and Powerful Marine Handheld with PMR Features



[Actual Size]



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

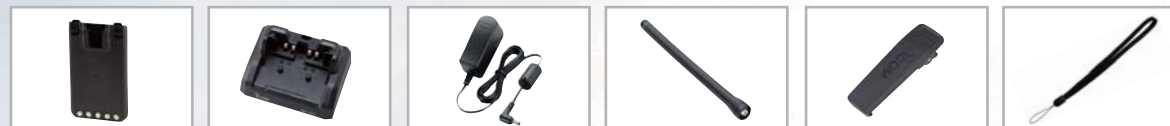
Despite its compact body, the IC-M85E delivers 700 mW of loud audio. Clear communications is vital in noisy environments.



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

BC-123S* AC adapter

FA-SC58V antenna

MBB-3 belt clip

Hand strap

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



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.



Multi-function 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.



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
- 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

Variety of Audio Accessories

Waterproof Speaker-Microphones

HM-236



HM-222

With 3.5 mm earphone jack.



Hands-Free Operation with Headsets



HS-94

Earphone-headset



HS-95

Behind-the-head headset



HS-97

Throat microphone



VS-5MC

PTT switch cable



Earphones and Speaker Microphones for Noisy Environments



SP-27

Tube earphone*



SP-29

Earhook type earphone*



SP-40

Earphone*



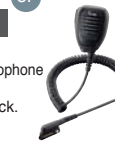
AD-135

3.5 mm earphone jack adapter.



HM-222

Waterproof speaker microphone with 3.5 mm earphone jack.



* With 3.5 mm plug.

Stylish Operation with Tie-Clip Microphone and Earphones



SP-26

Tube earphone*



SP-28

Earhook type earphone*



EH-15B

Earphone*



HM-163MC

Tie-clip microphone



* With 2.5 mm plug.

Covert Earphone

SP-32

Tube earphone adapter for use with EH-15B and HM-163MC.

