

IC-M85UL

VHF MARINE TRANSCEIVER

Ultra Compact Intrinsically Safe Radio with 5 Watt Power Output

5 W output power for hazardous locations approved by UL

* Land mobile channels for the USA version: 2 W

Intrinsically safe: Class I, Division 1, Groups C, D;

Class II, Division 1, Groups E, F, G;

Class III. T3C.

Non-incendive: Class I, Division 2, Groups A, B, C, D

ANSI/TIA-4950-B, ANSI/UL 121201

* When used with Icom BP-292UL battery pack

* Ambient temperature: -20°C to +60°C

Compact and lightweight commercial grade marine and land mobile hybrid radio

Covering 136–174 MHz land mobile frequency, in addition to VHF marine channels

▼ 700 mW powerful audio provides clear communications

Abundant Emergency Functions; Man Over Board, Man Down, and Lone Worker Alarms

Easy switch between channel groups (Marine ⇔ LMR) with a programmable multi-function button on the top panel

▮ IP67 and MIL-STD-810G rugged construction

AquaQuake™ prevents audio degradation from a water-logged speaker

11 hours of long-lasting operating time (with BP-292UL, TX: RX: Standby = 5 : 5 : 90)

Optional speaker-microphone, HM-184UL





OPTIONS



BP-292UL Rechargeable Li-ion battery 7.2 V/ 1910 mAh (min.) 2010 mAh (typ.).

DESKTOP CHARGER



BC-227*1 BC-123S*2 Charges the BP-292UL in 2.7 hours. (approx.)



^{*1} The battery charger must not be used in an explosive atmosphere.
*2 SE for Europe plug. SA for USA plug.







Connects up to six BC-226 units.





For use with

the BC-227



For use with

the BC-227.



For use with

the BC-227



Same as supplied.

The IC-M85UL should only be used with the specified Intrinsically Safe approved options. DO NOT use the transceiver with any other equipment other than the above options.

Supplied accessories:

- · BP-292UL, battery pack • FA-SC58V, antenna
- · BC-227, desktop charger
- BC-123SA/SE*, AC adapter MBB-3. Belt clip Hand strap
- * May differ, depending on transceiver version

SPECIFICATIONS

		IC-M85UL		
GENERAL		Marine channels	LMR 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		INT, USA*, CAN, WX* channels (* Varies according to version)	100 LMR channels	
Type of emissions	USA	16K0G3E (25 kHz)	11K0F3E (12.5 kHz)	
(Channel spacing)	EXP	16K0G3E (25 kHz)	16K0F3E (25 kHz) 11K0F3E (12.5 kHz)	
Power supply requ	irement	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)	
	Max. audio	0.45 A		
Antenna impedan		50 Ω		
Operating temperat	ture	−20 °C to +60 °C,	−30 °C to +60 °C,	
range		–4 °F to +140 °F	–22 °F to +140 °F	
Dimensions (W×H×D) (Projections not included)		$56\times92\times34.1$ mm, $2.2\times3.6\times1.3$ in $$ (With BP-292UL)		
Weight (approximate)		285 g, 10.1 oz (with BP-292UL, FA-SC58V and MBB-3)		
TRANSMITTER				
Output power	USA	F /O /4 \A/	2/1 W	
(at 7.2 V DC)	EXP	5/3/1 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		
Hum and noise		40 dB	40 dB (Wide) 34 dB (Narrow)	
Audio harmonic distortion		10% (at 60% deviation)		
Modulation limitin	g	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		
Hum and noise		40 dB	40 dB (Wide),	
Tidiii did fioloo		40 dB	34 dB (Narrow)	

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.

Ingress Protection Standard		
Dust & Water	IP67 (Dust-tight and waterproof protection)	

Read all instructions enclosed with the transceiver carefully and completely before using the transceiver.

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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

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

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