

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**

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 (WxHxD) (Projections not included)	56 x 92 x 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)

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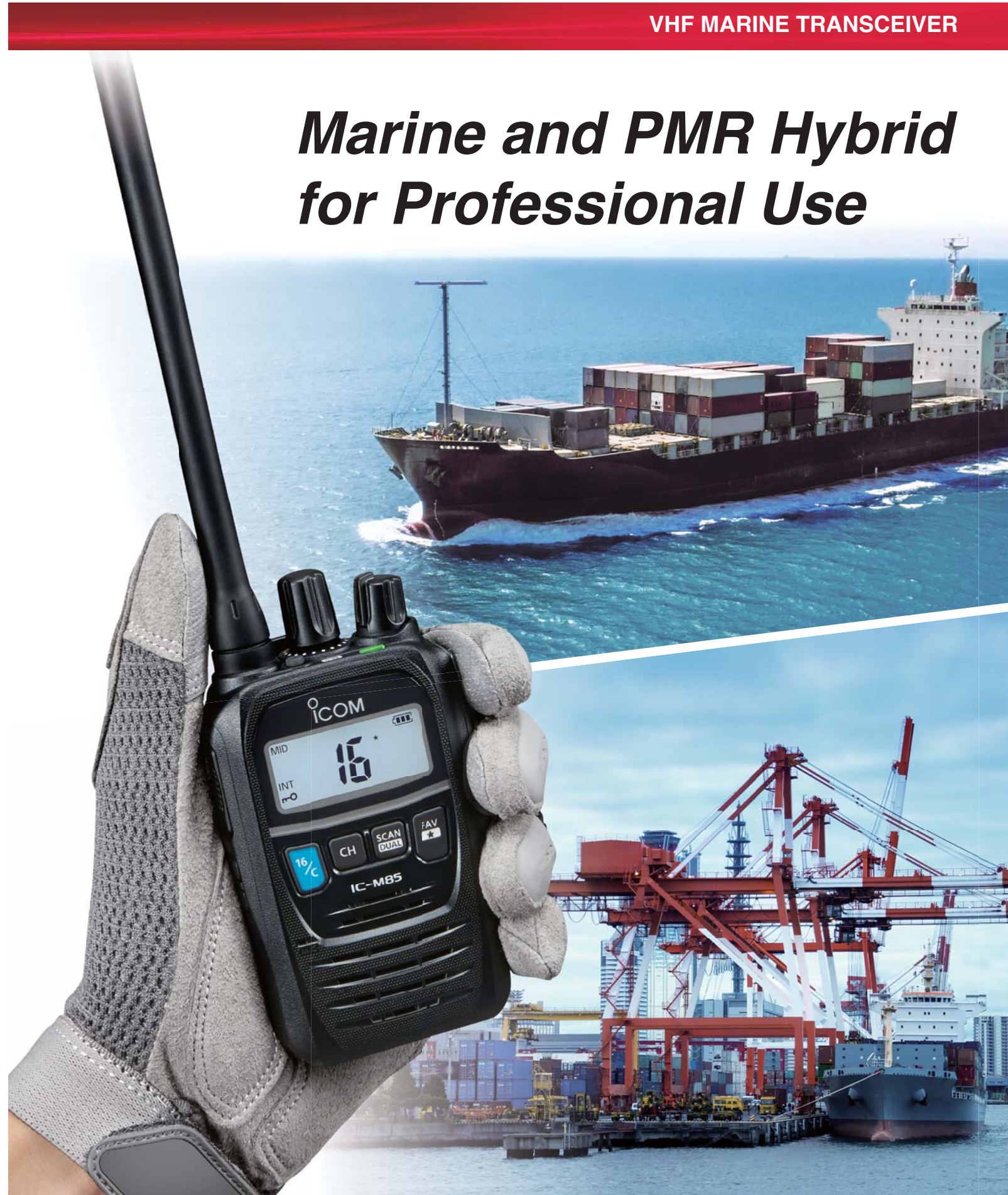
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Marine and PMR Hybrid  
for Professional Use

VHF MARINE TRANSCEIVER