



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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SPECIFICATIONS

IC-M85		
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	
Current drain (approximate)	Tx USA EXP 1.5 A (at 5 W)	0.9 A (at 2 W) 1.5 A (at 5 W)
	Rx Max. audio	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 (WxHxD) (Projections not included)	56 × 92 × 29 mm; 2.2 × 3.6 × 1.1 in (With BP-290)	
Weight (approximate)	246 g; 8.7 oz (with BP-290, FA-SC58V and MBB-3)	
TRANSMITTER		
Output power (at 7.2 V DC)	USA EXP 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 power	Internal SP 700 mW typical (at 10% distortion with 12 Ω load)	External SP 700 mW typical (at 10% distortion with 8 Ω 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	
	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)	

A Marine and Land Mobile Radio Combined in One

