



VHF MARINE TRANSCEIVER

IC-M88

Submersible

1m depth for 30 minutes



Not Just Another Marine Radio!

Tough construction, superior waterproofing

The IC-M88 is built tough to withstand hazardous and un hospitable environments at sea and on land. Even if the IC-M88 is dropped into water, complete waterproofing* will protect it from harm. The compact and durable body has been tested to the military specifications (MIL-STD).

* Equivalent to JIS waterproof grade 7. (1 m depth for 30 minutes)

Simple operation

6 clearly labelled buttons on the front panel and the volume/power knob maximize simplicity of operation. Even when wearing gloves, the large buttons are easy to operate. A large, clear LCD with backlighting and backlit buttons make night time operation simple.

Li-ion battery for extra long battery life

With the 1950 mAh (typ.) Li-ion battery pack, the BP-227, you can get up to 15 hours of talk time* without worrying about 'memory effect' on batteries. An optional AA alkaline battery case, BP-226, provides a convenient back up and great reassurance in an emergency.

* Typical operation; Tx:Rx:Stand-by duty ratio = 5:5:90

Waterproof speaker-microphone, HM-168

An optional waterproof speaker-microphone, the HM-168, provides reliable operation, even with the IC-M88 securely on your belt.

Powerful 5 Watts output power

The 5 Watts of output power ensures the reliability of your communication, even over long distances. To save on battery consumption, you can reduce the output power to 3 Watts or 1 Watt.

22 programmable channels for land use

The IC-M88 has 22 programmable channels reserved for Land use (146-174 MHz). Wide/narrow channel spacing is programmable for each channel, and CTCSS and DTCS signaling is built-in.

*Appropriate license will be required.

Desktop charger supplied

The BC-152N desktop charger is a simple drop-in charger. Set the charger on a table or mount it to a wall.



Additional features

- Auto WX scan and WX Alert function (U.S.A. version only)
- Simple Up/Down switches for operating channel selection
- Instant access to Ch. 16 and Ch. 9 (or call channel)
- Simple add/delete TAG scanning operation
- Monitor button opens squelch
- Automatic scan function • Key lock function
- 2 step power saver
- Battery indicator shows remaining battery power in 4 levels
- Beep sound is programmable for each button
- The self check function checks internal temperature, connected battery voltage (over voltage detection), and water intrusion

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

<p>BATTERY PACK AND CASE</p>  <p>BP-227 Rechargeable Li-Ion 1850 mAh (min.) 1950 mAh (typ.)</p> <p>BP-226 Battery case for five LR6 (AA) cells.</p>	<p>DESKTOP CHARGER</p>  <p>BC-147S^{*1} BC-152N</p> <p>Charges the BP-227 in 9-10 hours. (approx.)</p>	<p>RAPID CHARGER</p>  <p>BC-123S^{*1} BC-190</p> <p>Rapidly charges the BP-227 in 2.5-3 hours. (approx.)</p>
<p>MULTI-CHARGER</p>  <p>BC-197</p> <p>Rapidly charges up to 6 battery packs in 2.5-3 hours. AD-128 is supplied with the BC-197, depending on version.</p>	<p>CIGARETTE LIGHTER CABLE</p>  <p>CP-23L For use with BC-152N</p>	<p>DC POWER CABLES</p>  <p>OPC-515L OPC-656 For use with BC-152N For use with BC-197</p>
<p>SPEAKER-MICROPHONES</p>  <p>HM-138 HM-168</p>	<p>LEATHER BELT HANGER</p>  <p>MB-96F</p>	<p>BELT CLIPS</p>  <p>MB-98 MB-86 Alligator type Swivel type</p>

^{*1} BC-123/BC-147SA for USA plug. SE for Europe plug. SV for Australia plug.

SPECIFICATIONS

		IC-M88	
GENERAL		Marine channels	LMR channels
Frequency coverage	Tx Rx	156.025-157.425 MHz 156.050-163.275 MHz	146.000-174.000 MHz
Usable channel groups ^{*2}		INT, USA, CAN, WX channels	22 LMR channels
Number of channels			
Type of emission		16K0G3E	16K0F3E/8K50F3E
Channel spacing		25 kHz	25 ^{*3} /12.5 kHz
Power supply requirement		7.4V DC nominal	
Current drain (approx.)			
	Tx (at 5 W)	1.6 A typ.	
	Rx Max. audio	200 mA typ.	
Antenna impedance		50 Ω (SMA type)	
Operating temperature range		-20 °C to +60 °C; -4 °F to +140 °F	-30 °C to +60 °C -22 °F to +140 °F
Dimensions (W x H x D) (Projections not included)		62 x 97 x 39 mm; 2.44 x 3.82 x 1.54 in (With BP-227)	
Weight (approx.)		280 g; 9.9 oz (With BP-227)	
TRANSMITTER			
Output power (Hi/Mid/Low)		5 W/3 W/1 W	
Max. frequency deviation		±5.0 kHz	±5.0±2.5 kHz (W/N)
Adjacent channel distortion		Less than 10% (at 60% deviation)	
Spurious emissions		-70 dBc typ.	
Adjacent channel power		70 dB	70/60 dB (W/N)
Hum and noise ratio		40 dB	40/34 dB (W/N)
RECEIVER			
Sensitivity (at 12 dB SINAD)		0.25 μV typ.	
Squelch sensitivity		0.35 μV typical (at threshold)	
Audio channel selectivity		70 dB typ.	70/60 dB typ. (W/N)
Intermodulation rejection		70 dB typ.	
Spurious response		70 dB typ.	
Hum and noise		40 dB	40/34 dB (W/N)
Audio output power		350 mW (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.

^{*2} Varies according to version.

^{*3} 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions.

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Hail	506.4	I, II
Humidity	507.4	-
Salt Fog	509.4	-
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-810-C, -D and -E.

Ingress Protection Standard	
Water	IPX7 (Waterproof protection)

Supplied accessories: (* Varies according to version.)

- Battery pack
- Battery charger
- AC adapter*
- Swivel belt clip
- Antenna, FA-S59V
- Hand strap

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