



VHF MARINE TRANSCEIVER

# IC-M88

**Submersible**

1 m 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.

### BATTERY PACK AND CASE



**BP-227**  
Rechargeable Li-ion  
1850 mAh (min.)  
1950 mAh (typ.)

**BP-226**  
Battery case for  
five LR6 (AA)  
cells.

### DESKTOP CHARGER



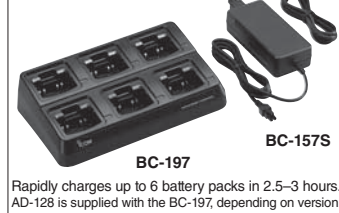
**BC-147S\*1** **BC-152N**  
Charges the BP-227 in 9–10  
hours. (approx.)

### RAPID CHARGER



**BC-123S\*1** **BC-190**  
Rapidly charges the BP-227  
in 2.5–3 hours. (approx.)

### MULTI-CHARGER



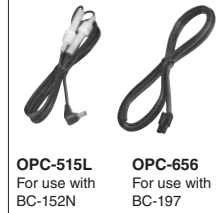
**BC-197** **BC-157S**  
Rapidly charges up to 6 battery packs in 2.5–3 hours.  
AD-128 is supplied with the BC-197, depending on version.

### CIGARETTE LIGHTER CABLE



**CP-23L**  
For use with BC-152N

### DC POWER CABLES



**OPC-515L** **OPC-656**  
For use with BC-152N For use with BC-197

### SPEAKER-MICROPHONES



**HM-138** **HM-168**

### LEATHER BELT HANGER



**MB-96F**

### BELT CLIPS



**MB-98** **MB-86**  
Alligator type Swivel type

\*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
Type of emission		16K0G3E	16K0F3E/8K50F3E
Channel spacing		25 kHz	25*3/12.5 kHz
Power supply requirement		7.4 V DC nominal	
Current drain (approx.)		1.6 A typ. 200 mA typ.	
	Tx (at 5 W) Rx Max. audio		
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 × H × D) (Projections not included)		62 × 97 × 39 mm; 2.44 × 3.82 × 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)
Audio harmonic 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)	
Adjacent 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
Rain	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)
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**Supplied accessories:** (\* Varies according to version.)

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

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