



VHF MARINE TRANSCEIVER

# IC-M88



## Not Just Another Marine Radio!

### Tough construction, superior waterproofing

The IC-M88 is built tough to withstand hazardous and inhospitable 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 meets the military specifications (MIL-STD).

\* Equivalent to JIS waterproof grade 7. (1m 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 standard 1700mAh 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-138

An optional waterproof speaker-microphone, the HM-138, 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 free channels for land use

The IC-M88 has 22 free channels reserved for Land use (146-174MHz). 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-152 desktop charger is a simple drop-in charger. Set the charger on a table or mount it to a wall.



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**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

- 2 step power saver
- Key lock function
- 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

**SPECIFICATIONS**

**GENERAL**

- Frequency range :
  - Marine Tx 156.025–157.425MHz
  - Rx 156.050–163.275MHz
  - LMR Tx/Rx 146.000–174.000MHz
- Usable channels\* (\*Varies according to version):
  - All U.S.A., International and Canadian channels;
  - 22 LMR channels plus 10 weather channels
- Channel spacing :
  - Marine 25kHz
  - LMR 25/12.5kHz
- PLL channel step (LMR) : 5/6.25/7.5kHz
- Current drain (at 7.2V DC) :
  - Tx (at 5W output) 1.6A
  - Rx (at AF max.) 200mA
- Operating temp. range (except BP-227):
  - Marine -20°C to +60°C; -4°F to +140°F
  - LMR -30°C to +60°C; -22°F to +140°F
- Antenna impedance : 50Ω (SMA)
- Dimensions (W×H×D) : 62×97×39 mm; (proj. not included) 27<sup>1</sup>/<sub>16</sub>×3<sup>13</sup>/<sub>16</sub>×1<sup>17</sup>/<sub>32</sub> in
- Weight (approx.; with BP-227): 280g; 9.9oz

**TRANSMITTER**

- Output power (Hi/Mid/Low) : 5/3/1W
- Max. frequency deviation :
  - Marine ± 5.0kHz
  - LMR (wide/narrow) ± 5.0/2.5kHz
- Audio harmonic distortion : Less than 10% (at 60% mod.)
- Spurious emissions : -70dBc typical
- Adjacent channel power :
  - Marine 70dB
  - LMR (wide/narrow) 70/60dB
- Hum and noise ratio :
  - Marine 40dB
  - LMR (wide/narrow) 40/34dB

**RECEIVER**

- Sensitivity (at 12dB SINAD) : 0.25μV typical
- Squelch sensitivity : 0.35μV typical (at threshold)
- Adjacent Ch. selectivity :
  - Marine 70dB typical
  - LMR (wide/narrow) 70/60dB typical
- Spurious response : 70dB typical

- Intermodulation rejection : 70dB typical
- Hum and noise ratio :
  - Marine 40dB
  - LMR (wide/narrow) 40/34dB
- Audio output power : 0.35W typical (at 10% distortion with an 8Ω load)

**Applicable U.S. Military Specifications**

Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I,II	500.3	I,II	500.4	I,II
High Temp.	501.1	I	501.2	I,II	501.3	I,II	501.4	I,II
Low Temp.	502.1	I	502.2	I,II	502.3	I,II	502.4-3	I,II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	I,II	506.2	I,II	506.3	I,II	506.4	I,III
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII,X	514.3	I	514.4	I	514.5	I
Shock	516.2	I,II,V	516.3	I,IV	516.4	I,IV	516.5	I,IV

- Supplied accessories:** (\*Varies according to version.)
- Battery pack • Battery charger • AC adapter\*
  - Swivel belt clip • Antenna, FA-S59V • Hand strap

Measurement made in accordance with TIA/EIA-603. All stated specifications are subject to change without notice or obligation.

**OPTIONS**

**BP-226 BATTERY CASE**

Battery case for AA (R6)×5 alkaline cells.

**BP-227 Li-Ion BATTERY PACK**

7.2V/1700mAh Li-Ion battery pack. Provides 15 hours operating time\* (approx. at 5 Watts). The same as that supplied. Operating temp. range: -20°C to +60°C; -4°F to +140°F

\* Tx (Hi): Rx: standby=5:5:90

**BC-152 DESKTOP CHARGER**

Regularly charges the BP-227 in 9-10 hours. The same as that supplied.

**BC-119N DESKTOP CHARGER**

+ **AD-100 CHARGER ADAPTER**

+ **BC-145A/E/V AC ADAPTER**

For rapid charging of battery pack. An AC adapter is supplied depending on version. Charging time: 2.5–3 hours.

**BC-121N MULTI-CHARGER**

+ **AD-100 CHARGER ADAPTER**

+ **BC-124 AC ADAPTER**

For rapid charging of up to 6 battery packs (Six AD-100s are required). Charging time: 2.5–3 hours.

**CP-17L CIGARETTE LIGHTER**

CABLE WITH NOISE FILTER

**OPC-515L DC POWER CABLE**

For use with the battery charger, BC-152 or BC-119N, instead of the AC adapter. (12–16 V DC required)

**OPC-656 DC POWER CABLE**

For use the BC-121N with a DC power supply. (12–16V DC required)

**HM-138 SPEAKER-MICROPHONE**

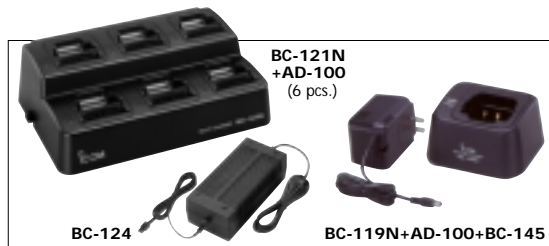
Full sized, waterproof construction corresponds to JIS grade 7 (1 m/30 min.). Equipped with an alligator type clip.

**MB-79 BELT CLIP**

Standard type belt clip.

**MB-86 SWIVEL BELT CLIP**

Swivel belt clip. Prevents accidental dropping from your belt. The same as that supplied.



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