



VHF MARINE TRANSCEIVER

# IC-M88

**Submersible**

1m depth for 30 minutes



Rugged  
**MIL-STD 810**



## 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 has been tested to 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-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 1Watt.

### 22 programmable channels for land use

The IC-M88 has 22 programmable channels reserved for Land use (146-174MHz). Wide/narrow channel spacing is programmable for each channel, and CTCSS and DTCSS 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**  
Li-Ion 7.2V  
1850mAh (min.)  
1950mAh (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-145S\*1** **BC-119N+AD-100**  
Rapidly charges the BP-227 in  
2.5–3 hours. (approx.)

#### MULTI-CHARGER



**BC-121N+AD-100** (6 pcs.)  
Rapid charges up to 6 battery packs in 2.5–3 hours.

#### CIGARETTE LIGHTER CABLE



**CP-23L**  
For use with BC-152N  
or BC-119N

#### DC POWER CABLES



**OPC-515L** For use with  
BC-152N or  
BC-119N **OPC-656**  
For use with  
BC-121N

#### SPEAKER-MICROPHONES



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

#### LEATHER BELT HANGER



**MB-96F**

#### BELT CLIPS



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

\*1 BC-145/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	156.025–157.425MHz 156.050–163.275MHz	146.000–174.000MHz
Usable channel groups*2, Number of channels	INT, USA, CAN, WX channels	22 LMR channels
Type of emission	16K0G3E	16K0F3E/8K50F3E
Channel spacing	25kHz	25*3/12.5kHz
Power supply requirement	7.4V DC nominal	
Current drain (approx.) Tx (at 5W) Rx Max. audio	1.6A typ. 200mA typ.	
Antenna impedance	50Ω (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)	62×97×39mm; 2.44×3.82×1.54 in (With BP-227)	
Weight (approx.)	280g; 9.9oz (With BP-227)	
TRANSMITTER		
Output power (Hi/Mid/Low)	5/3/1W	
Max. frequency deviation	±5.0kHz	±5.0/±2.5kHz (W/N)
Audio harmonic distortion	Less than 10% (at 60% deviation)	
Spurious emissions	-70dBc typ.	
Adjacent channel power	70dB	70/60dB (W/N)
Hum and noise ratio	40dB	40/34dB (W/N)
RECEIVER		
Sensitivity (at 12dB SINAD)	0.25μV typ.	
Squelch sensitivity	0.35μV typical (at threshold)	
Adjacent channel selectivity	70dB typ.	70/60dB typ. (W/N)
Intermodulation rejection	70dB typ.	
Spurious response	70dB typ.	
Hum and noise	40dB	40/34dB (W/N)
Audio output power	350mW (at 10% distortion with 8Ω 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 25kHz 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)
-------	------------------------------

**Supplied accessories:** (\* Varies according to version.)

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

Icom, Icom Inc. and Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries. All other trademarks are the properties of their respective holders.

## Icom Inc.

1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

[www.icom.co.jp/world](http://www.icom.co.jp/world)

## Count on us!

#### Icom America Inc.

12421 Willows Road NE,  
Kirkland, WA 98034, U.S.A.  
Phone: +1 (425) 454-8155  
Fax: +1 (425) 454-1509  
E-mail: [sales@icomamerica.com](mailto:sales@icomamerica.com)  
URL: <http://www.icomamerica.com>

#### Icom (Europe) GmbH

Communication Equipment  
Auf der Krautweide 24  
65812 Bad Soden am Taunus, Germany  
Phone: +49 (6196) 76685-0  
Fax: +49 (6196) 76685-50  
E-mail: [info@icom-europe.com](mailto:info@icom-europe.com)  
URL: <http://www.icomeurope.com>

#### Icom France s.a.s.

Zac de la Plaine,  
1 Rue Brindejonc des Moulinais, BP 45804,  
31505 Toulouse Cedex 5, France  
Phone: +33 (5) 61 36 03 03  
Fax: +33 (5) 61 36 03 00  
E-mail: [icom@icom-france.com](mailto:icom@icom-france.com)  
URL: <http://www.icom-france.com>

#### Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,  
Taipei, Taiwan, R.O.C.  
Phone: +886 (02) 2559 1899  
Fax: +886 (02) 2559 1874  
E-mail: [sales@asia-icom.com](mailto:sales@asia-icom.com)  
URL: <http://www.asia-icom.com>

Your local distributor/dealer:

#### Icom Canada

Glenwood Centre #150-6165  
Highway 17A, Delta, B.C.,  
V4K 5B8, Canada  
Phone: +1 (604) 952-4266  
Fax: +1 (604) 952-0090  
E-mail: [info@icomcanada.com](mailto:info@icomcanada.com)  
URL: <http://www.icomcanada.com>

#### Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer"  
Bajos A 08174, Sant Cugat del Valles,  
Barcelona, Spain  
Phone: +34 (93) 590 26 70  
Fax: +34 (93) 589 04 46  
E-mail: [icom@icomspain.com](mailto:icom@icomspain.com)  
URL: <http://www.icomspain.com>

#### Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road,  
Clayton, VIC 3168 Australia  
Phone: +61 (03) 9549 7500  
Fax: +61 (03) 9549 7505  
E-mail: [sales@icom.net.au](mailto:sales@icom.net.au)  
URL: <http://www.icom.net.au>

#### Icom Brazil

Rua Itororó, 444 Padre Eustáquio  
Belo Horizonte MG,  
CEP: 30720-450, Brazil  
Phone: +55 (31) 3582 8847  
Fax: +55 (31) 3582 8987  
E-mail: [sales@icombrasil.com](mailto:sales@icombrasil.com)

#### Icom (UK) Ltd.

Blacksloe House, Altira Park,  
Herne Bay, Kent, CT6 6GZ, U.K.  
Phone: +44 (0) 1227 741741  
Fax: +44 (0) 1227 741742  
E-mail: [info@icomuk.co.uk](mailto:info@icomuk.co.uk)  
URL: <http://www.icomuk.co.uk>

#### Icom New Zealand

39C Rennie Drive, Airport Oaks,  
Auckland, New Zealand  
Phone: +64 (09) 274 4062  
Fax: +64 (09) 274 4708  
E-mail: [inquiries@icom.co.nz](mailto:inquiries@icom.co.nz)  
URL: <http://www.icom.co.nz>