



VHF MARINE TRANSCEIVER

IC-M88

Submersible

1m depth for 30 minutes

Intrinsically safe
versions available



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 back-lighting 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.

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 DTCS signaling is built-in.

*Appropriate license will be required.

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
- Powerful 5W output
- 2 step power saver
- 4 level battery indicator
- The self check function checks internal temperature, connected battery voltage (over voltage detection), and water intrusion



Icom Inc.

Intrinsically safe versions approved by Factory Mutual Research Corporation



There are versions that conform to intrinsically safe rating of the FMRC (Factory Mutual Research Corporation). It can be used in many hazardous marine environments such as petroleum tankers and bulk cargo carrier. Ask your dealer for details.

Intrinsically safe : Class I, II and III, Division 1, Groups C, D, E, F, and G, Nonincendive : Class I, Division 2, Groups A, B, C and D hazardous locations when used with Icom BP-227FM battery pack. "Max. Temp. T3C at 40°C" Approved accessories: Speaker-microphone, HM-138

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 (WxHxD) : 62x97x39 mm; (proj. not included) 27/16x313/16x117/32 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

Table with columns: Standard, MIL 810 C, MIL 810 D, MIL 810 E, MIL 810 F. Rows include Low Pressure, High Temp., Low Temp., Temp. Shock, Solar Radiation, Rain, Humidity, Salt Fog, Dust, Vibration, Shock.

- 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

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

BP-226 BATTERY CASE

Battery case for AA (LR6)x5 alkaline cells. Water resistant, equivalent to JIS Grade 4.

BP-227/BP-227FM BATTERY PACK

7.2V/1700mAh Li-Ion battery pack. Provides 15 hours operating time* (approx. at 5 Watts). Same as 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

+ BC-147A/E AC ADAPTER Regularly charges the BP-227, BP-227FM in 9-10 hours. Same as 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-157 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.).

MB-86 SWIVEL BELT CLIP Swivel belt clip. The same as that supplied.

MB-98 BELT CLIP Alligator type belt clip.

MB-96N LEATHER BELT HANGER Swivel type belt hanger.

MB-96F LEATHER BELT HANGER Fixed type belt hanger for use with MB-98.



Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: http://www.icom.co.jp/world/index.html

Count on us!

Icom America Inc.

2380 116th Avenue NE, Bellevue, WA 98004, U.S.A. Phone: +1 (425) 454-8155 Fax: +1 (425) 454-1509 E-mail: sales@icomamerica.com URL: http://www.icomamerica.com

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand Phone: +64 (9) 274 4062 Fax: +64 (9) 274 4708 E-mail: inquiries@icom.co.nz URL: http://www.icom.co.nz

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K. Phone: +44 (0)1227 741741 Fax: +44 (0)1227 741742 E-mail: info@icomuk.co.uk URL: http://www.icomuk.co.uk

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 URL: http://www.asia-icom.com

Your local distributor/dealer:

Icom Canada

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

Icom (Europe) GmbH

Communication Equipment Himmelgeister Str. 100, D-40225 Düsseldorf, Germany Phone: +49 (0)211 346047 Fax: +49 (0)211 333639 E-mail: info@icomeurope.com URL: http://www.icomeurope.com

Icom France Sa

Zac de la Plaine, 1, Rue Brindejous des Moulinais BP 5804, 31505 Toulouse Cedex, France Phone: +33 (5) 61 36 03 03 Fax: +33 (5) 61 36 03 00 E-mail: icom@icom-france.com URL: http://www.icom-france.com

Beijing Icom Ltd.

10C07, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China Phone: +86 (010) 5889 5391/5392/5393 Fax: +86 (010) 5889 5395 E-mail: bjicom@bjicom.com URL: http://www.bjicom.com

Icom (Australia) Pty. Ltd.

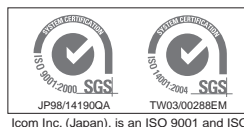
A.B.N. 88 006 092 575 Unit 1 / 103 Garden Road, Clayton VIC 3168 Australia Phone: +61 (03) 9549 7500 Fax: +61 (03) 9549 7505 E-mail: sales@icom.net.au URL: http://www.icom.net.au

Icom Spain S.L.

Crta. de Gracia a Manresa Km. 14,750 08190 Sant Cugat del Valles Barcelona, Spain Phone: +34 (93) 590 26 70 Fax: +34 (93) 589 04 46 E-mail: icom@icomspain.com URL: http://www.icomspain.com

Icom Polska

Sopot, 3 maja 54, Poland Phone: +48 (58) 550 7135 Fax: +48 (58) 551 0484 E-mail: icompolska@icompolska.com.pl URL: http://www.icompolska.com.pl



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