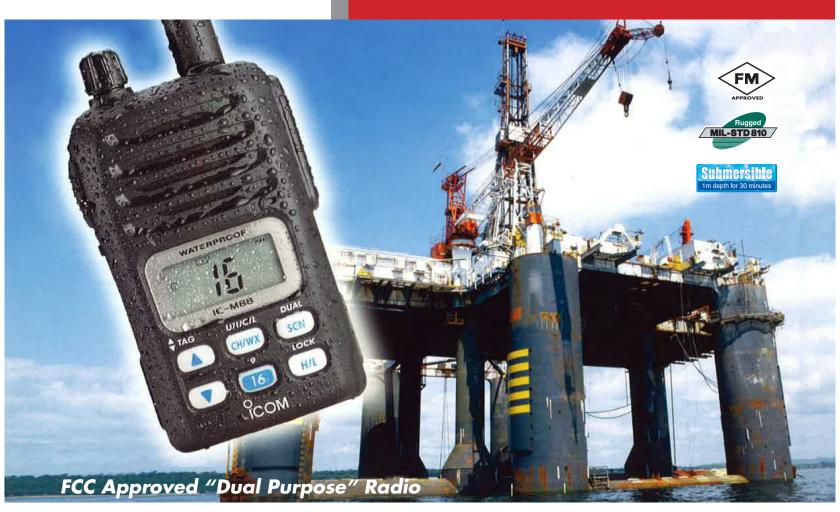
# O ICOM<sup>®</sup>

**INTRINSICALLY SAFE (IS) VHF TRANSCEIVER** 

IC-M88 IS

FCC APPROVED FOR MARINE AND LAND MOBILE USE



# Tough construction, superior waterproofing

The IC-M88 IS is built tough to withstand hazardous and inhospitable environments at sea and on land. Even if the IC-M88 IS is dropped into water, complete waterproofing\* will protect it from harm. The compact and durable body meets military specifications (MIL-STD). \*Equivalent to JIS waterproof grade 7. (1m depth for 30 minutes)



Waterproof speaker-mic, HM-138 IS An optional waterproof speaker-microphone, the HM-138 IS, provides reliable operation, even with the IC-M88 IS securely on your belt.

### 22 programmable channels for land use

The IC-M88 IS 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.

#### **Li-Ion battery for extra long battery life** With the FM approved, 1700mAh Li-Ion battery pack, get up to 20 hours of talk time\* without "memory effect". A 6 unit rapid charger is optional. \*Typical operation; Tx:Rx: Stand-by duty ratio = 5:5:90

### **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.

### **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.

# **IC-M88 IS**

70dB typical

70dB typical

40dB

40/34dB

## Intrinsically safe version approved by Factory Mutual Research Corporation

TRANSMITTER

5/3/1W

±-5.0kHz

70dB

40dB

70/60dB

40/34dB

0.25µV typica

70dB typical

70/60dB typical

+-5 0/2 5kHz

-70dBc typical



This IS version of the M88 conforms 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"USE

# **SPECIFICATIONS**

## GENERAL

Frequency i	range		Output power (Hi/Mid/Low)	5/3		
Marine LMR	TX RX Tx/Rx	156.025–157.425MHz 156.050–163.275MHz 146.000–174.000MHz	Max. frequency deviation Marine LMR (wide/narrow)	±-{ ±-{		
All U.S.A.	nnels* (* Varies acc , International and hannels plus 10 w	Audio harmonic distortion Less than 10% (at 60% mod.) Spurious emissions -7				
Channel spacing Marine LMR PLL channel step (LMR)		25kHz 25/12.5kHz 5/6.25/7.5kHz	Adjacent channel power Marine LMR Hum and noise ratio Marine	70 70 40		
Tx (at	in (at 7.2V DC) : 5W output) t AF max.)	1.6A 200mA	LMR (wide/narrow)	40		
•	emp. range (excep	RECEIVER				
	0°C to +60°C; -4° C to +60°C; -22°F		Sensitivity (at 12dB SINAD) Squelch sensitivity	0.2		
Antenna impedance Dimensions (W×H×D)		50Ω (SMA) 62×97×39 mm; 2 <sup>7/<sub>16</sub>×3<sup>13/</sup><sub>16</sub>×11<sup>7/</sup><sub>32</sub> in 280g; 9.9oz</sup>	0.35µV typical (at threshold Adjacent Ch. selectivity Marine LMR (wide/narrow)			

# **OPTIONS**

**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-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-121 MULTI-CHARGER + AD-100 CHARGER ADAPTER + BC-124 AC ADAPTER For rapid charging of up to 6 battery packs (Six AD-100s required). Charging time: 2.5-3 hrs.

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 IS SPEAKER-MICROPHONE Full sized, waterproof construction corresponds to JIS grade 7 (1 m/30 min.).

MB-86 SWIVEL BELT CLIP Swivel belt clip. Same as supplied.

Marine LMR (wide/narrow) Audio output power 0.35W typical (at 10% distortion with an 8Ω load)

Intermodulation rejection

Spurious response

Hum and noise ratio

	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F			
Standard	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.		
Low Pressure	500.1	Ι	500.2	I, II	500.3	I, II	500.4	I, II		
High Temp.	501.1	Ι	501.2	I, II	501.3	I, II	501.4	I, II		
Low Temp.	502.1	Ι	502.2	I, II	502,3	I, II	502.4	I, II		
Temp. Shock	503.1	Ι	503.2	Ι	503,3	Ι	503.4	Ι		
Solar Radiation	505.1	Ι	505.2	Ι	505.3	Ι	505.4	Ι		
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, II		
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	-		
Salt Fog	509.1	Ι	509.2	Ι	509.3	Ι	509.3	-		
Dust	510.1	Ι	510.2	Ι	510.3	Ι	510.4	Ι		
Vibration	514.2	VIII, X	514.2	Ι	514.3	Ι	514.5	Ι		
Shock	516.2	I, II, V	516.2	I, IV	516.4	I, IV	516.5	I, IV		
Measurement made in accordance with TIA/EIA-603. All stated specifications										

are subject to change without notice or obligation

MB-98 BELT CLIP Alligator type belt clip.

**MB-96** LEATHER BELT HANGER Swivel type belt hanger for use with MB-86.

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

OPTIONAL HEADSETS AVAILABLE, but are not IS rated.



Your local distributor/dealer:

- Battery charger
- AC adapter'
- Swivel belt clip
- Antenna, FA-S59V

Count on us!

· Hand strap

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