O ICOM[®]

INTRINSICALLY SAFE (IS) VHF TRANSCEIVER

FCC APPROVED FOR MARINE AND LAND MOBILE USE

FCC Approved "Dual Purpose" Radio

Tough construction, superior waterproofing

The IC-M88 IS is built tough to withstand hazardous and unhospitable 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.

m depth for 30 minu

<u>IC-M88 IS</u>

Intrinsically safe version approved by Factory Mutual Research Corporation



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'

SPECIFICATIONS

GENERAL						
 Frequency rate 	ange	:				
Marine	Tx	156.025–157.425MHz				
	Rx	156.050–163.275MHz				
LMR Tx/Rx		146.000–174.000MHz				
 Usable chan 	nels* (* Varies	s according to version):				
All U.S	A., Internatio	onal and Canadian channels;				
22 LM	R channels p	lus 10 weather channels				
 Channel spa 	cing	:				
Marine		25kHz				
LMR		25/12.5kHz				
 PLL channel step (LMR) 		: 5/6.25/7.5kHz				
 Current drair 	1 (at 7.2V DC)	:				
Tx (at 5	W output)	1.6A				
Rx (at A	F max.)	200mA				
 Operating te 	mp. range (e	xcept 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 imp 	edance	: 50Ω (SMA)				
 Dimensions 	(W×H×D)	: 62×97×39 mm;				
(proj. not includ	ed)	2 ⁷ /16×3 ¹³ /16×1 ¹⁷ /32 in				
·-Weight (appro	ox.; with BP-22	27) : 280g; 9.9oz				

TRANS	MITTER	LMR (v			
 Spurious emissions 		Spurious response Intermodulation rejection Hum and noise ratio Marine LMR (wide/narrow) Audio output power			
 Adjacent channel power 		MIL 810 C		MIL	
Marine	70dB	Standard	Method	Proc.	Method
LMR (wide/narrow)	70/60dB	Low Pressure	500.1	1	500.2
,	70/000D	High Temp.	501.1	I	501.2
 Hum and noise ratio 		Low Temp.	502.1		502.2
Marine	40dB	Temp. Shock Solar Badiation	503.1 505.1		503.2 505.2
LMR (wide/narrow)	40/34dB	Rain	505.1	1.11	505.2
	40/340D	Humidity	507.1	1, 11	507.2
		Salt Fog	509.1	- I,	509.2
		Dust	510.1	I	510.2
REC	EIVER	Vibration	514.2	VIII, X	514.3
		Shock	516.2	I, II, V	516.3
 Sensitivity (at 12dB SINAD Squelch sensitivity) : 0.25µV typical : 0.35µV typical (at thresh- old)	• Battery p • Swivel be	ack	• Bat	tery c

 Adjacent Ch. selectivity Marine

		ralio		•				
Marine			40dB					
LMR (wide/narrow)			40/34dB					
-Audio output power			: 0.35W typical (at 10% dis-					
	tortion with an 8Ω load)							
Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.		Proc.
Low Pressure	500.1	1	500.2	I, II	500.3	I, II	500.4	1, 11
High Temp.	501.1	1	501.2	1, 11	501.3	1, 11	501.4	1, 11
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	I	503.4	Ι
Solar Radiation	505.1	Ι	505.2	Ι	505.3	I	505.4	Ι
Rain	506.1	<u> I, II</u>	506.2	I, II	506.3	Т, II	506.4	I, II
Humidity	507.1	<u> Т, П</u>	507.2	П, Ш	507.3	II, III	507.4	-
Salt Fog	509.1	I	509.2	I	509.3	1	509.4	-
Dust	510.1	1	510.2	1	510.3	1	510.4	1
Vibration	514.2	VIII, X	514.3	1	514.4	1	514.5	1
Shock	516.2	1, II, V	516.3	1, IV	516.4	1, IV	516.5	1, 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

LC-M88 LEATHER CASE **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-121N 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

70dB typical LIGHTER CABLE WITH NOISE

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

For use the BC-121N with a DC power supply.

HM-138 IS SPEAKER-MICROPHONE

sponds to JIS grade 7 (1 m/30 min.).

Full sized, waterproof construction corre-

FILTER

DC required)

(12-16V DC required)

OPC-515L DC POWER CABLE

OPC-656 DC POWER CABLE

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

70/60dB typical

70dB typical

: 70dB typical

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.



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

Icom America Inc.

<Corporate Headquarters> 2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A. Very State S

Icom Canada

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

Icom (Australia) Pty. Ltd.

A.B.N. 88 006 092 575 290-294 Albert Street Brunswick Victoria 3056 Australia Phone : +61 (03) 9387 0666 Fax : +61 (03) 9387 0022 URL : http://www.icom.net.au

Icom New Zealand 146A Harris Road, East Tamaki, Auckland, New Zealand Phone :+64 (09) 274 4062 Fax :+64 (09) 274 4708 URL : http://www.icom.co.nz

Icom (Europe) GmbH

Communication Equipment Himmelgeister Str. 100, D-40225 Düsseldorf, Germany Phone : +49 (0211) 346047 Fax : +49 (0211) 333639 URL : http://www.icomeurope.com

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 URL : http://www.icomspain.com

Icom (UK) Ltd. Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K. Phone : +44 (01227) 741741 Fax : +44 (01227) 741742 URL : http://www.icomuk.co.uk

Icom France S.a

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

Beijing Icom Ltd.

1305, Wanshang Plaza, Shijingshan Road, Beijing, China Phone : +86 (010) 6866 6337 Fax : +86 (010) 6866 3553 URL : http://www.biicom.com



Icom Inc. (Japan), is an ISO 9001 and ISO 14001 certification acquired company.

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