

IC-M87



Not Just Another Marine Radio!

Tough, waterproof construction

The IC-M87 is built tough to withstand hazardous and unhospitable environments at sea and on land. Even if the IC-M87 is dropped into water, complete waterproof will protect it from harm. The compact and durable body also has been tested to military specifications (MIL-STD). * Equivalent to JIS Grade 7 or IPX7 of the corresponding International Standard IEC 529 (1989). (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, BP-227, you can get up to 15 hours of operating time* without worrying about 'memory effect' of the battery. 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, HM-138, provides reliable operation, allowing you to wear the IC-M87 on your belt for added portable convenience.

22 programmable channels for PMR use

The IC-M87 has 22 free channels reserved for PMR 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

- 5W output power
- Simple Up/Down buttons for operating channel selection
- Instant access to Ch. 16 and call channel
- Simple add/delete TAG scanning operation
- · Automatic scan function
- 2 step power saver
- 4 level battery indicator
- Desktop charger, BC-152 supplied
- Key lock and monitor function
- · Beep sound is programmable for each button
- The self check function checks internal temperature, over voltage detection, and water intrusion





Icom Inc.

IC-M87

ATEX Intrinsically safe versions



An intrinsically safe version conforming to the 94/9/EC ATEX Directive, is suitable for use in hazardous areas where flammable gasses or liquids are used such as petroleum tankers and bulk cargo carrier.

The approved rating is II2G Ex ib IIA T3. Special conditions for use: Must be used with BP-227AX Approved accessories: Speaker-microphone HM-138 Ambient operating temperature: -20°C to +55°C Ask your dealer for details.

SPECIFICATIONS

GENEKAL			
• Frequency range	:		
Marine Tx	156.000-161.450MHz		
Rx	156.000-163.425MHz		
PMR Tx	/Rx 146.000–174.000MHz		
 Usable channels* 	: INT, U.S.A. channels		
(* Varies according to	version.) 22 PMR channels		
 Channel spacing 	:		
Marine	25kHz		
PMR	25/12.5kHz,		
	20/12.5kHz		
 PLL channel step 	,		
 Current drain (at 7 	,		
Tx (at 5W output	'		
(at 1W output	*		
Rx (at AF max.)	200mA		
	ange (except BP-227) :		
Marine	-15°C to +55°C		
PMR	−25°C to +55°C		
PMR ATEX ve			
Antenna impedan	` ,		
• Dimensions (W×H:	,		
MATERIA S	(projections not included)		
 Weight (approx.) 	: 280g (with BP-227)		

Measurements made in accordance with EN301 178 2 or EN300 086.

All stated specifications are subject to change without notice or obligation

	PMR	5/3/1W
ATEX version	Marine	1/0.5W
	PMR	1W
Max. frequency of	deviation:	
Marine		± 5.0kHz
PMR (25/20/12	2.5kHz)	± 5.0/4.0/2.5kHz
Audio harmonic o	distortion:	Less than 10% (at 60% mod.)
 Spurious emission 	ons :	0.25µW (below 2GHz)
 Adjacent channe 	l power :	• • •
Marine	•	70dB
PMR (wide/nar	rrow)	70/60dB
Residual modula	ition :	
Marine		40dB
PMR (wide/nar	rrow)	40/34dB
,		

TRANSMITTER

1/0.5W

• Output power (Hi/Mid/Low) : 5/3/1W

FRG version Marine

RECEIVER

· Sensitivity (at 20dB SINAD: emf) :

-2dBµ typical Marine -4dBµ typical **PMR**

 Squelch sensitivity (emf) : $\pm 0dB\mu$ typical (at threshold) Adjacent Ch. selectivity

70dB Marine PMR (wide/narrow) 70/60dB • Spurious response : 70dB • Intermodulation rejection 68dB Marine **PMR** 65dB Hum and noise ratio 40dB Marine 40/34dB PMR (wide/narrow) \bullet Audio output power (at 10% dist. with an 8Ω load) : 0.2W Marine **PMR** 0.35W

Applicable U.S. Military Specifications

Standard	MIL 810 F		
	Method	Procedure	
Low Pressure	500.4	I, II	
High Temperature	501.4	I, II	
Low Temperature	502.4-3	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	510.4	I	
Vibration	514.5	I	
Shock	516.5	I, IV	

so meets equivalent MIL-STD-810-C, -D and -E

Supplied accessories:

- AC adapter* • Swivel belt clip • Antenna, FA-S59V • Hand strap
- (* Varies according to version.)

OPTIONS

BP-226 BATTERY CASE

Battery case for AA (LR6)×5 alkaline cells. Water resistant, equivalent to IPX4

BP-226 is not approved as intrinsically

BP-227/AX Li-Ion BATTERY PACK

7.2V/1850mAh (min.),1950mAh (typ.) Li-lon battery pack. Provides 15 hours operating time* (approx. at 5 Watts). BP-227AX is for

Operating temp. range: BP-227; -20°C to +60°C, BP-227AX; -20°C to +55°C * Tx (Hi): Rx: standbv=5:5:90

BC-152 DESKTOP CHARGER

+ BC-147SA/SE AC ADAPTER

Regularly charges the BP-227 in 9-10 hours.

The same as that supplied.

BC-119N DESKTOP CHARGER

+ AD-100 CHARGER ADAPTER

+ BC-145SA/SE/SV/SUK 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-157S AC ADAPTER

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

BC-152, BC-119N and BC-121N are not ap proved as intrinsically safe. **Do not charge** the BP-227AX in an explosive atmosphere.

CP-23 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)

These cables are not approved as intrinsically

HM-138 SPEAKER-MICROPHONE Full sized, waterproof construction equivalent

to IPX7 (1 m/30 min.). Approved as intrinsically safe

HM-168 SPEAKER-MICROPHONE Compact type speaker-microphone. Equivalent to IPX7

HM-168 is not approved as intrinsically safe.

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.





290g (with BP-227AX)





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



ICOM Inc. 1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302

Icom Canada

Phone: +1 (604) 952-4266 Fax : +1 (604) 952-0090

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

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

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada

mail:info@icomcanada.com RL:http://www.icomcanada.com

Icom (Australia) Pty. Ltd.

Icom America Inc.

Icom New Zealand 146A Harris Road, East Tamaki, Auckland, New Zealand

Auckiand, New Zealand
Phone: +64 (09) 274 4062
Fax: +64 (09) 274 4708
E-mail: inquiries@icom.co.nz
URL: http://www.icom.co.nz

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@icomeurope.com
URL : http://www.icomeurope.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 URL: http://www.icomspain.com

Icom (UK) Ltd.

Blacksole House, Altira Park, Herne Bay, Kent, CT6 6GZ, U.K. Phone: +44 (01227) 741741 Fax: +44 (01227) 741742 E-mail: info@icomuk.co.uk URL: http://www.icomuk.co.uk

Icom France s.a.s.

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

Icom Polska

81-850 Sopot, ul. 3 Maja 54, Poland Phone : +48 (58) 550 7135 Fax : +48 (58) 551 0484 E-mail : icompolska@icompolska.com.pl : http://www.icompolska.com.p

Fax: +81 (06) 6793 0013 www.icom.co.jp/world

Count on us!

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RADIOCOMUNICACIONES

info@anfer.com www.anfer.com Tel. (+34) 963 311 410 Fax. (+34) 963 311 411