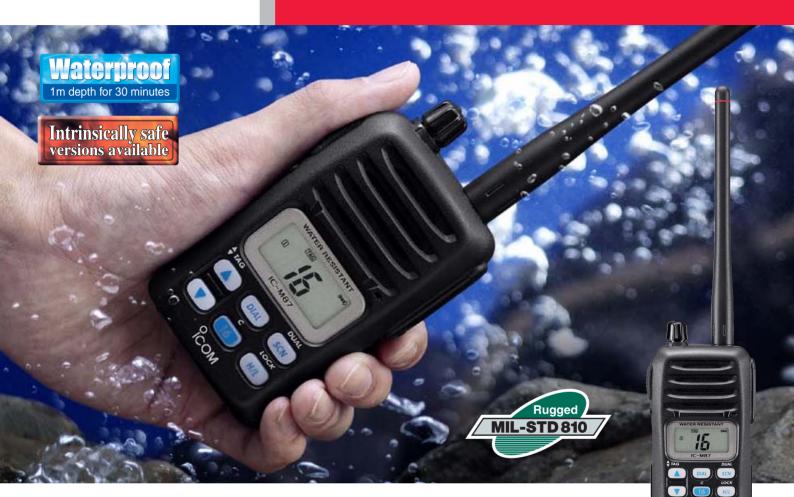
O ICOM

VHF MARINE TRANSCEIVER

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 functionBeep sound is programma-
- ble for each buttonThe self check function
- The self check function checks internal temperature, over voltage detection, and water intrusion





Icom Inc.

IC-M87

: 70dB

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 EEx 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.

Spurious response

SPECIFICATIONS

GENERAL										
 Frequency rate 	ange	:								
Marine	Tx Rx	156.000–161.450MHz 156.000–163.425MHz								
PMR	Tx/Rx	146.000-174.000MHz								
 Usable chan 	nels*	: INT, U.S.A. channels								
(* Varies accord	ling to version.	22 PMR channels								
Channel spa	cing	:								
Marine		25kHz								
PMR		25/12.5kHz,								
		20/12.5kHz								
 PLL channel 	step (PMR)	: 5/6.25/7.5kHz								
 Current drair 	n (at 7.2V DC)	:								
Tx (at 5W	output)	1.6A								
(at 1W	output)	0.7A								
Rx (at AF	max.)	200mA								
 Operating te 	mp. range (e	except BP-227) :								
Marine		–15°C to +55°C								
PMR		–25°C to +55°C								
PMR ATE	X version	–20°C to +55°C								
 Antenna imp 		: 50Ω (SMA)								
 Dimensions 	(W×H×D)	: 62×97×39 mm								
		(projections not included)								
 Weight (approx 	ox.)	: 280g (with BP-227)								
		290g (with BP-227AX)								

TRANSMITTER • Output power (Hi/Mid/Low) : 5/3/1W FRG version Marine 1/0.5W PMR 5/3/1W ATEX version Marine 1/0.5W PMR 1W • Max. frequency deviation Marine ±5.0kHz PMR (25/20/12.5kHz) ± 5.0/4.0/2.5kHz • Audio harmonic distortion : Less than 10% (at 60% mod.) Spurious emissions : 0.25µW (below 2GHz) · Adjacent channel power Marine 70dB PMR (wide/narrow) 70/60dB Residual modulation Marine 40dB PMR (wide/narrow) 40/34dB

RECEIVER

 Sensitivity (at 20dB SINAD; emf) : Marine -2dBµ typical PMR -4dBµ typical
 Squelch sensitivity (emf) : ±0dBµ typical (at threshold)
 Adjacent Ch. selectivity : Marine 70dB PMR (wide/narrow) 70/60dB

 Intermodulation rejection 	:
Marine	68dB
PMR	65dB
 Hum and noise ratio 	:
Marine	40dB
PMR (wide/narrow)	40/34dB
Audio output power (at 109	% dist. with an 8 Ω load) :
Marine	0.2W
PMR	0.35W

Applicable U.S. Military Specifications

MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
501.1	Ι	501.2	I, II	501.3	I, II	501.4	I, II
502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
503.1	Ι	503.2	Ι	503.3	Ι	503.4	Ι
505.1	Ι	505.2	I	505.3	I	505.4	Ι
506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, II
507.1	I, II	507.2	II, III	507.3	II, III	507.4	-
509.1	I	509.2	I	509.3	I	509.4	-
510.1	I	510.2	I	510.3	I	510.4	Ι
514.2	VIII, X	514.3	I	514.4	I	514.5	Ι
516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV
	Method 500.1 501.1 502.1 503.1 505.1 506.1 507.1 509.1 510.1 514.2	Method Proc. 500.1 I 501.1 I 502.1 I 503.1 I 505.1 I 506.1 I, II 507.1 I, II 509.1 I 507.1 I, II 509.1 I	International state Proc. Method 500.1 1 500.2 500.2 501.1 1 501.2 502.2 503.1 1 503.2 505.1 505.2 505.1 1 505.2 506.1 1 505.2 507.1 1.1 507.2 509.1 1 509.2 507.1 1.1 507.2 509.1 509.2 510.1 510.2 510.1 1 510.2 514.2 VIII. X 514.3 514.2	Method Proc. Method Proc. 500.1 1 500.2 I, II 501.1 1 501.2 I, II 502.1 I 502.2 I, II 503.1 I 503.2 I 505.1 I 505.2 I 505.1 I 505.2 I 505.1 I 505.2 I 505.1 I 507.2 I, III 507.1 I, II 507.2 I, III 509.1 I 507.2 I, III 509.1 I 507.2 I, III 509.1 I 509.2 I 510.1 I 510.2 I 514.2 VIII, X 514.3 I	Method Proc. Method Proc. Method 500.1 I 500.2 I, II 500.3 500.3 II 501.2 I, II 501.3 500.3 II 502.2 I, II 503.3 503.1 I 503.2 I 503.3 503.3 I 503.2 I 503.3 505.3 505.3 505.4 I 505.2 I 505.3 505.3 505.4 I 505.2 I 505.3 505.1 I 505.2 I 505.3 505.1 I 507.2 I, III 507.3 507.1 I 507.2 I, III 507.3 507.1 507.2 I, III 507.3 507.1 507.2 I, III 507.3 507.1 507.3 507.1 507.3 <td>Method Proc. Method Proc. Method Proc. 500.1 1 500.2 1.11 500.3 1.11 501.1 1 501.2 1.11 501.3 1.11 502.1 1 502.2 1.11 501.3 1.11 503.1 1 503.2 1 503.3 1 505.1 1 503.2 1 505.3 1 505.1 1 505.2 1 505.3 1 505.1 1 505.2 1 505.3 1 505.1 1 507.2 1 506.3 1 507.1 1.11 507.2 1 508.3 1 509.1 1 507.2 1 509.3 1 509.1 1 509.2 1 509.3 1 510.2 1 510.3 1 514.4 1</td> <td>Method Proc. Method Proc. Me</td>	Method Proc. Method Proc. Method Proc. 500.1 1 500.2 1.11 500.3 1.11 501.1 1 501.2 1.11 501.3 1.11 502.1 1 502.2 1.11 501.3 1.11 503.1 1 503.2 1 503.3 1 505.1 1 503.2 1 505.3 1 505.1 1 505.2 1 505.3 1 505.1 1 505.2 1 505.3 1 505.1 1 507.2 1 506.3 1 507.1 1.11 507.2 1 508.3 1 509.1 1 507.2 1 509.3 1 509.1 1 509.2 1 509.3 1 510.2 1 510.3 1 514.4 1	Method Proc. Me

Supplied accessories:

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

Measurements made in accordance with EN301 178 2 or EN300 086. All stated specifications are subject to change without notice or obligation

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 safe.

BP-227/AX Li-Ion BATTERY PACK

7.2V/1700mAh Li-Ion battery pack. Provides 15 hours operating time" (approx. at 5 Watts). BP-227AX is for ATEX version. Operating temp. range: BP-227; -20°C to +60°C, BP-227AX; -20°C to +55°C

* Tx (Hi): Rx: standby=5:5:90

BC-152 DESKTOP CHARGER + BC-147A/E 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-145A/E/V/UK 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

(Six AD-100s are required). Charging time: 2.5–3 hours.

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

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)

These cables are **not approved** as intrinsically safe.

HM-138 SPEAKER-MICROPHONE

Full sized, waterproof construction equivalent to IPX7 (1 m/30 min.). Approved as intrinsically safe.

MB-86 SWIVEL BELT CLIP Swivel belt clip. Prevents accidental dropping from your belt. 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

 Icom America Inc.

 2380 116th Avenue NE,

 Bellevue, WA 98004, U.S.A.

 Phone :+1 (425) 454-8155

 Fax :+1 (425) 454-8155

 F-mail : sales@icomamerica.com

 URL : http://www.icomamerica.com

Icom Canada

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 588, Canada Phone: +1 (604) 952-4266 Fax : +1 (604) 952-0090 E-mail : info@icomcanada.com URL : http://www.icomcanada.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 New Zealand

146A Harris Road, East Tamaki, Auckland, 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 Himmelgeister Str. 100, D-40225 Düsseldorf, Germany Phone: +49 (0211) 346047 Fax : +49 (0211) 33639 E-mail: info@icomeurope.com URL : http://www.icomeurope.com

Icom Spain S.L.

Crta. de Gracia a Manresa Km. 14,750 08190 Sant Cugat del Valles Barcelona, Spair Phone: +34 (93) 589 02 670 Fax : +34 (93) 589 04 46 E-mail : icom@icomspain.com 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 E-mail : info@icomuk.co.uk 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 E-mail : icom@icom-france.com URL : http://www.icom-france.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

Asia Icom Inc.

 ASia Icominc.
 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

URL: http://www.icom.co.jp/world/index.html

Beijing Icom Ltd.

 OC07, 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 : bijcom@bjicom.com

 URL: http://www.bjicom.com



Your local distributor/dealer:

Count on us!

om Inc. (Japan), is an ISO 9001 and ISO – 14001 certification acquired company. 02