

IC-M87

Waterproof

1m depth for 30 minutes



Not Just Another Marine Radio!

Tough, waterproof construction

The IC-M87 is built tough to withstand hazardous and inhospitable 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 water 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 1900mAh (typ.) Li-Ion battery pack, BP-274, you can get up to 15 hours of operating time*. 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/HM-168

Optional waterproof speaker-microphone, HM-138 or HM-168, provides reliable operation, allowing you to wear the IC-M87 on your belt for added portable convenience.

Powerful 5 Watts output power

The 5 Watts of output power ensures the reliability of your communication, even over long distances with the standard battery pack. To save on battery consumption, you can reduce the output power to 3 Watts or 1Watt.

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.

Desktop charger supplied

The BC-152N desktop charger is a simple drop-in charger. Set the charger on a table or mount it to a wall.



ADDITIONAL FEATURES

- Simple Up/Down switches for operating channel selection
- Instant access to Ch. 16 and call channel
- Simple add/delete TAG scanning operation
- Monitor button opens squelch
- Automatic scan function
- 2 step power saver

- Key lock function
- Battery indicator shows remaining battery power in 4 levels
- Beep sound is programmable for each button
- The self check function checks internal temperature, connected battery voltage (over voltage detection), and water intrusion

SPECIFICATIONS

IC-M87		
GENERAL	Marine channels	PMR channels
Frequency coverage Tx Rx	156.000–161.450MHz 156.000–163.425MHz	146.000–174.000MHz
Usable channel groups, Number of channels	INT, USA* channels (*Varies according to version)	22 PMR channels
Type of emission	16K0G3E	16K0F3E/8K50F3E 14K0F3E/8K50F3E
Channel spacing	25kHz	12.5/25kHz, 20/25kHz
Power supply requirement	7.4V DC nominal	
Current drain (approx.) Tx (at 5W) Rx Max. audio	1.6A typ. 200mA typ.	
Antenna impedance	50Ω (SMA type)	
Operating temperature range	-15°C to +55°C	-25°C to +55°C
Dimensions (W×H×D) (Projections not included)	62×97×37.8mm (With BP-274)	
Weight (approx.)	274g (With BP-274)	
TRANSMITTER		
Output power EUR/UK (at 7.2V DC) FRG	5/3/1W 1/0.5W	5/3/1W 5/3/1W
Max. frequency deviation	±5.0kHz	±5.0/±4.0/±2.5kHz (W/M/N)
Frequency stability	±1.5kHz	
Spurious emissions	0.25μW (≤2GHz), 1.0μW (>2GHz)	
Residual modulation	40dB	40/34dB (W/N)
Audio harmonic distortion	Less than 10% (at 60% deviation)	
Modulation limiting	60–100% of Max. deviation	
RECEIVER		
Sensitivity (at 20dB SINAD)	-2dBμ typ. (emf)	-4dBμ typ. (emf)
Adjacent channel selectivity	70dB	70/60dB (W/N)
Spurious response	70dB	
Intermodulation	68dB	65dB
Hum and noise	40dB	40/34dB (W/N)
Audio output power (at 10% distortion with 8Ω load)	200mW	350mW

Measurements made in accordance with EN 301-178-2 or EN 300 086.
All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications & IP Rating

Standard	MIL 810 F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain Blowing/Drip	506.4	I, III
Humidity	507.4	-
Salt Fog	509.4	-
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

Also meets equivalent MIL-STD-810-C, -D and -E.

Ingress Protection Standard	
Water	IPX7 (Waterproof protection)

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OPTIONS

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

BATTERY PACK AND CASE  BP-274 Li-Ion 7.4V 1800mAh (min.) 1900mAh (typ.) BP-226 Battery case for five LR6 (AA) cells.	DESKTOP CHARGER  BC-147S* BC-152N Charges the BP-274 in 10 hours. (approx.)	RAPID CHARGER  BC-145S* BC-119N+AD-100 Rapidly charges the BP-274 in 2–2.5 hours. (approx.)
MULTI-CHARGER*  BC-121N+AD-100 (6 pcs.) Rapid charges up to 6 battery packs in 2–2.5 hours.	CIGARETTE LIGHTER CABLES  CP-23L For use with BC-152N or BC-119N	DC POWER CABLES  OPC-515L For use with BC-152N or BC-119N OPC-656 For use with BC-121N
SPEAKER-MICROPHONE  HM-138 HM-168	LEATHER BELT HANGER  MB-96F	BELT CLIPS  MB-98 Alligator type MB-86 Swivel type

* BC-145SE/BC-147SE for Europe plug. BC-145SUK for UK plug.

Supplied accessories:

- Battery pack, BP-274
 - Battery charger, BC-152N
 - AC adapter, BC-147SE*
 - Swivel belt clip, MB-86
 - Antenna, FA-S59V
 - Hand strap
- (* AC adapter is not supplied depending on version.)