

# 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). (1 m 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 1900 mAh (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 1 Watt.

### 22 programmable channels for PMR use

The IC-M87 has 22 free channels reserved for PMR use (146–174 MHz). 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

## OPTIONS

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

<p><b>BATTERY PACK AND CASE</b></p>  <p><b>BP-274</b> Rechargeable Li-ion 1800 mAh (min.) 1900 mAh (typ.)</p> <p><b>BP-226</b> Battery case for five LR6 (AA) cells.</p>	<p><b>DESKTOP CHARGER</b></p>  <p><b>BC-147S*1</b>    <b>BC-152N</b></p> <p>Charges the BP-274 in 10 hours. (approx.)</p>	<p><b>RAPID CHARGER</b></p>  <p><b>BC-123S*1</b>    <b>BC-190</b></p> <p>Rapidly charges the BP-274 in 2-2.5 hours. (approx.)</p>
<p><b>MULTI-CHARGER</b></p>  <p><b>BC-197</b></p> <p>Rapidly charges up to 6 battery packs in 2.5-3 hours. AD-128 is supplied with the BC-197, depending on version.</p>	<p><b>CIGARETTE LIGHTER CABLES</b></p>  <p><b>CP-23L</b> For use with BC-152N</p>	<p><b>DC POWER CABLES</b></p>  <p><b>OPC-515L</b>    <b>OPC-656</b> For use with BC-152N    For use with BC-197</p>
<p><b>SPEAKER-MICROPHONES</b></p>  <p><b>HM-138</b>    <b>HM-168</b></p>	<p><b>LEATHER BELT HANGER</b></p>  <p><b>MB-96F</b></p>	<p><b>BELT CLIPS</b></p>  <p><b>MB-98</b>    <b>MB-86</b> Alligator type    Swivel type</p>

\*1 BC-123SE/BC-147SE for Europe plug. BC-123SUK for UK plug.

## SPECIFICATIONS

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

Measurements made in accordance with EN 301-178 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)

### 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.)

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