

# IC-F61M



## Compact and Waterproof Maritime Onboard Radio

### Conforms to Maritime UHF onboard communication requirements

The IC-F61M is especially developed for onboard communication and is pre-programmed with 9 UHF onboard channels\*. Icom has also matched this radio's electrical specifications with the strict requirements of EN 300 720-2.

\* 25 kHz channel.



### IP67, dust-tight and water-proof construction

The IC-F61M has outstanding protection against dust and water which is equivalent to IP67. The IC-F61M can withstand submersion in 1 m depth of water for up to 30 minutes and has dust-tight construction that prevents the ingress of dust.



### Compact body

The IC-F61M's compact dimensions of 56 (W) x 97 (H) x 35.2 (D) mm allow the IC-F61M to fit comfortably in your palm or shirt pocket.

### Lithium-ion battery pack standard

With the supplied 1900 mAh (typ.) Lithium-ion battery pack, BP-274, the IC-F61M provides stable output power and a practical 9–10 hours\* of operating time.

\* Typical operation; Tx:Rx:Stand-by duty cycle=5:5:90

### Built-in signalings

Without installing an optional logic board, the IC-F61M has 5-Tone, CTCSS, DTCS signaling capabilities\* for group communication or selective calling.

\* Ask your dealer for programming these signalings.

### 700 mW audio output power

The IC-F61M uses the BTL (bridge-tied load) amplifier that doubles the audio output. As a result, it delivers 700 mW of loud audio\*.

\* Internal speaker only.

### Vibration alert function

When a pre-programmed 5-Tone signal is received, the vibration alert function alerts you by vibrating the radio. The vibration patterns are also programmable (4 patterns x one time/repeat).

### Max. 8 minute voice recorder

The built-in the voice recorder records incoming calls up to a maximum of 8 minutes (Or up to 48 calls of 10 sec. recording time). When a pre-programmed 5-Tone signal is received, the voice recorder automatically starts recording the message.



**ADDITIONAL FEATURES**

- 2-step low battery alert
  - Priority scan and dual priority scan
  - Mode dependent scan
  - Lone worker function
  - Optional waterproof speaker microphone, HM-169 (IP57)
  - Built-in audio compander
  - Optional VOX headset available
  - BTL only version (no vibration alert and no voice recorder) and BTL/ Vibration alert version (no voice recorder) available\*
- \* Not available in some countries.

**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<sup>*1</sup></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<sup>*1</sup></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>SPEAKER-MICROPHONES</b></p>  <p><b>IPX7</b>    <b>IPX7</b>    <b>IP57</b></p> <p><b>HM-138</b>    <b>HM-168</b>    <b>HM-169</b></p>	
<p><b>HEADSETS (VS-1SC required)</b></p>  <p><b>HS-94</b>    <b>HS-95</b>    <b>HS-97</b></p> <p>Earhook type    Behind-the-head type    Throat type</p>	<p><b>PTT/VOX UNIT</b></p>  <p><b>VS-1SC</b></p> <p>Required when using any of these headsets</p>	<p><b>CIGARETTE LIGHTER CABLES</b></p>  <p><b>CP-23L</b></p> <p>For use with BC-152N</p>
<p><b>DC POWER CABLES</b></p>  <p><b>OPC-515L</b>    <b>OPC-656</b></p> <p>For use with BC-152N    For use with BC-197</p>	<p><b>BELT CLIPS</b></p>  <p><b>MB-98</b>    <b>MB-86</b></p> <p>Alligator type    Swivel type</p>	<p><b>LEATHER BELT HANGERS</b></p>  <p><b>MB-96N</b>    <b>MB-96F</b>    <b>MB-96FL</b></p> <p>Swivel type    Fixed type    Long type</p>

**STUBBY ANTENNA**  
FA-S57US : 450–490 MHz, 70 mm

**STANDARD ANTENNA**  
FA-S27U : 400–470 MHz

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

**SPECIFICATIONS**

	IC-F61M
<b>GENERAL</b>	
Frequency coverage	457.525–467.575 MHz
Usable channels	9 UHF onboard channels (25 kHz channel)
Type of emission	16K0G3E
Channel spacing	25 kHz
Power supply requirement	7.2 V DC nominal
Current drain (approximate)	
Tx at 2 W/0.2 W ERP output	1.0 A / 0.4 A
Rx Max. audio Stand-by	500 mA/ 300 mA (Internal SP/Extrenal SP) 85 mA
Antenna impedance	50 Ω (SMA type)
Operating temperature range	–20 °C to +55 °C
Dimensions (W × H × D) (Projections not included)	56 × 97 × 35.2 mm (With BP-274)
Weight (approximate)	278 g (With BP-274)
<b>TRANSMITTER</b>	
Output power (at 7.2 V DC)	2W ERP/0.2W ERP
Max. frequency deviation	±5.0 kHz
Frequency stability	±1.5 kHz
Spurious emissions	0.25 μW (≤2 GHz)
Adjacent channel power	70 dB
Audio harmonic distortion	3% typ. (AF 1 kHz, 40% deviation)
Limiting character of modulation	60–100% of Max. deviation
<b>RECEIVER</b>	
Sensitivity (at 20 dB SINAD)	–4 dBμ typ. emf
Adjacent channel selectivity	73 dB typ.
Spurious response	70 dB
Intermodulation	70 dB typ.
Hum and noise	55 dB typ.
Audio output power (at 5% distortion with 8 Ω load)	700 mW/500 mW typ. (Internal SP/Extrenal SP)
External speaker connector	9-pin multi connector/8 Ω

Measurements made in accordance with EN300 720\*2.  
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.

<b>Ingress Protection Standard</b>	
Water	IP67 (Dust-tight and waterproof protection)

**Supplied accessories:**  
• Battery pack, BP-274    • Antenna, FA-S27U    • Belt clip, MB-98    • Key sticker  
(\* Varies according to version.)

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