

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.

* 25kHz 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 1m 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) × 97 (H) × 36.4 (D) mm allow the IC-F61M to fit comfortably in your palm or shirt pocket.

Lithium-Ion battery pack standard

With the supplied 1700mAh Lithium-Ion battery pack, BP-227, 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.

700mW audio output power

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

SPECIFICATIONS**GENERAL**

- Frequency range : 457.525–467.575MHz
- Number of operating channels : 9 UHF onboard channels (25kHz channel)
- Type of emission : 16K0G3E
- Channel spacing : 25kHz
- Current drain (at 7.2V DC) :
 - Tx 2W ERP output : 1.0A
 - 0.2W ERP output : 0.4A
 - Rx AF Max. : 500mA (Internal SP)
 - 300mA (External SP)
 - Stand-by : 85mA
- Operating temp. range : –20°C to +55°C
- Antenna impedance : 50Ω (SMA)
- Dimensions (W×H×D) : 56×97×36.4 mm (projections not included)
- Weight (approx.) : 284g (with BP-227)

TRANSMITTER

- Output power : 2W ERP/0.2W ERP
- Max. frequency deviation : ± 5.0kHz
- Frequency stability : ± 1.5kHz
- Spurious emissions : 0.25μW (≤ 2GHz)
- Adjacent channel power : 70dB
- Audio harmonic distortion : 3% typ. (AF 1kHz, 40% dev.)
- Limiting character of modulation : 60–100% of Max. deviation

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	506.4	I, III
Humidity	507.4	–
Salt Fog	509.4	–
Dust	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	
Dust & Water	IP67 (Dust-tight and waterproof protection)

RECEIVER

- Sensitivity (at 20dB SINAD) : –4dBμ typ. emf
- Squelch sensitivity : –4dBμ typ. emf (at threshold)
- Adjacent Ch. selectivity : 73dB typ.
- Spurious response : 70dB
- Intermodulation rejection : 70dB typ.
- Hum and noise ratio : 55dB typ.
- Audio output power (at 5% dist. with an 8Ω load) :
 - Internal speaker : 0.7W typ.
 - External speaker : 0.5W typ.
- External SP connector : 9-pin multi connector/8Ω

Supplied accessories:

- Battery pack, BP-227
- Antenna, FA-S27U
- Belt clip, MB-98
- Key sticker

(* Varies according to version.)

Measurements made in accordance with EN300 720 2.

All stated specifications are subject to change without notice or obligation.

OPTIONS

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



BP-226 BATTERY CASE
Battery case for AA (LR6)×5 alkaline cells. Water resistant, equivalent to IPX4.

BP-227 Li-Ion BATTERY PACK
7.2V, 1850mAh (min.), 1950mAh (typ.) Li-Ion battery pack. Provides 9-10 hours operating time*.
* Tx (Hi): Rx: standby=5:5:90

RAPID CHARGER

BC-190 DESKTOP CHARGER + BC-123 AC ADAPTER**
Rapidly charges the BP-227. Charge the radio, even when the radio power is on.

** BC-123/BC-145/BC-147SA for 120V AC. SE for 230V AC. SV for 240V AC. BC-145SUK for 230V AC.

RAPID CHARGER

BC-119N DESKTOP CHARGER + AD-100 CHARGER ADAPTER + BC-145 AC ADAPTER**
Rapidly charges the BP-227 in 2–2.5 hrs.

BATTERY CHARGER

BC-152 DESKTOP CHARGER + BC-147 AC ADAPTER**
Regularly charges the BP-227 in 9–10 hours.



BC-121N MULTI-CHARGER + AD-100 CHARGER ADAPTER + BC-157S AC ADAPTER
Rapidly charges up to 6 battery packs (Six AD-100s are required) in 2–2.5 hrs.

SPEAKER-MICROPHONES

HM-138 : Full sized speaker-microphone. Equivalent to IPX7.
HM-168 : Compact type speaker-microphone. Equivalent to IPX7.
HM-169 : Rugged type speaker-microphone. Equivalent to IP57.

HEADSETS & PTT/VOX UNIT

HS-94 : Earhook headset with flexible boom microphone.
HS-95 : Behind-the-head headset with flexible boom microphone.
HS-97 : Throat microphone fits around your neck and picks up speech vibration.
VS-1SC : VOX/PTT CASE. Required when using these headsets with the transceiver.
These headsets and VS-1SC are water-resistant, equivalent to IPX4.

POWER SUPPLY CABLES

CP-23L : Cigarette lighter cable for use with BC-119N.
OPC-515L : Power supply cable for use with BC-119N.
OPC-656 : Power supply cable for use with BC-121N.

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

STANDARD ANTENNA
FA-S27U : 400–470MHz

BELT CLIPS
MB-86 : Swivel type belt clip.
MB-98 : Alligator type. Same as supplied.

BELT HANGERS
MB-96N : Swivel type belt hanger.
MB-96F : Fixed type belt hanger.

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