

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)
- 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 error : ± 1.5kHz
- Spurious emissions : 0.25μW
- Adjacent channel power : 70dB
- Audio harmonic distortion : 3% typ. (AF 1kHz, 40% dev.)
- Limiting character of modulation : 60–100% of Max. deviation

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

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	502.4-3	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain	506.4	I, II
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)

Measurements made in accordance with EN300 720 2. All stated specifications are subject to change without notice or obligation.

Supplied accessories:

- Battery pack, BP-227
 - Antenna, FA-S27U
 - Belt clip, MB-98
 - Key sticker
- (* Varies according to version.)

OPTIONS

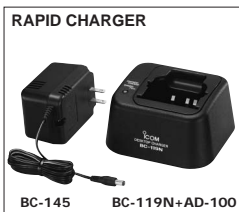
Some options may not be available in some countries. Please ask your dealer for details.



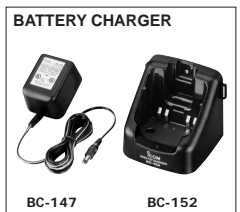
BP-226 BATTERY CASE
Battery case for AA (LR6)×5 alkaline cells. Water resistant, equivalent to IPX4.
BP-227 Li-Ion BATTERY PACK
7.2V/1700mAh Li-Ion battery pack. Provides 9-10 hours operating time*.
* Tx (Hi): Rx: standby=5:5:90



BC-190 DESKTOP CHARGER + BC-145L AC ADAPTER
Rapidly charges the BP-227 in 2.5–4.25 hrs.



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



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-157 AC ADAPTER
Rapidly charges up to 6 battery packs (Six AD-100s are required) in 2–2.5 hrs.



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.



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-15C : VOX/PTT CASE. Required when using these headsets with the transceiver.
These headsets and VS-15C are water-resistant, equivalent to IPX4.



CP-17L : 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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