



VHF AND UHF TRANSCEIVERS

IC-F50 (VHF Transceiver)

IC-F60 (UHF Transceiver)

Submersible

1m depth for 30 minutes

Meets
MIL-STD 810



BIIS 1200
Compatible

Photo includes optional speaker-microphone, HM-138.

Icom Inc.

Superior Water Supports De

Firefighters, Police, Security, own unique challenges, but a munications. Icom's IC-F50/F easy to use. Rain or shine, th

JIS Grade 7 Waterproof protection

The gasket sealed waterproof housing provides superior waterproof protection, equivalent to JIS Grade 7*. Reliable and dependable use in harsh conditions such as rain, snow, sudden change in temperature, make the IC-F50/F60 the radio for all situations.



* 1m depth for 30 minutes.

Built-in Tone signaling

Use the built-in CTCSS, DTCS, 2-Tone and 5-Tone capability to set up your own talk groups and quiet stand-by when others are talking. You can also set up selective calls to individuals or control a repeater.

Multiple 2-Tone, Multiple 5-Tone

Up to 10 2-Tone codes can be decoded on a single memory channel. This is perfect for professionals who require multiple district paging on one channel. When a matched tone is received, the following items are programmable for each code.

- Bell icon
- Answer back
- Stun
- Beep sound
- Auto transmit
- Scan

VHF AND UHF TRANSCIVERS

IC-F50

VHF transceiver

IC-F60

UHF transceiver



▼ IC-F50

▼ IC-F60



Waterproof Protection Demanding Communication

Oil industry and Public utilities. Each profession has its own. They all have one thing in common: the need for reliable communication. The IC-F50/F60 offers a compact waterproof, MIL STD package, that's rugged. This radio keeps you in contact in nearly any environment.



Li-Ion battery pack

The large capacity 1700mAh Lithium-Ion (Li-Ion) battery pack, BP-227 provides a practical 10 hours* of operating time. Li-Ion batteries allow flexible charging and have almost no memory effect.

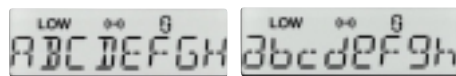
* Typical operation Tx:Rx: Stand-by=5:5:90

Up to 7 programmable buttons

The [P0]–[P3], [Red] and [Up], [Down] buttons are programmable to meet specific needs. The [Red] button on the top panel can be assigned as an emergency trigger.

Alphanumeric display

The 8-character alphanumeric display shows channel, bank, tone code and scanning channel names on the display. 7 operational icons on the sub-line show various status at a glance.



Upper and lower case characters available.

Wide range coverage and large channel capacity

The IC-F50/F60 covers a wide frequency range in one version. The large capacity of 128 memory channels with 8 memory banks allows you to divide and store a variety of channels from local to wide area network channels. Both wide and narrow (25/12.5kHz) channel bandwidth is programmable to each channel.

Compact body

56(W)×97(H)×36.4(D) mm* compact body with durable, dependable construction, meets MIL standard specifications.

* 2⁷/₃₂(W)×3¹³/₁₆(H)×1⁷/₁₆(D) in

Built-in voice scrambler

The IC-F50/F60 has a built-in inversion type voice scrambler in all versions. When a more secure system is required, versions with a rolling type voice scrambler* equivalent to the UT-110 are available.

* Built-in, optional unit not required.

BIIS 1200 Compatible

The following selective calling and data features are available with the BIIS system.

- 32 abbreviated call memories
- 7 group IDs
- 24-status Messages
- 8-character SDM (Short Data Message)
- RS-232C interface
- Position data transmission with a GPS

Waterproof microphone

An optional waterproof speaker-microphone, HM-138 provides reliable operation, even with the radio securely on your belt.

Other features

- Built-in compander, compatible with the IC-F30G and IC-F520 series
- 8 DTMF autodial memories
- Powerful 5W output for IC-F50, 4W output for IC-F60
- Normal and priority scans
- 2 step power saver
- Optional AA alkaline battery case, BP-226 for battery back up
- Busy, repeater lockout functions
- Power ON password, and more...

OPTIONS



BP-226 BATTERY CASE: AA (R6)×5 alkaline cells. BP-226 is Water-resistant, equivalent to JIS Grade 4.
BP-227 Li-Ion BATTERY PACK, 7.2V/1700mAh Provides 10 hours operating time* (approx.). Operating temp. range: -20°C to +60°C; -4°F to +140°F.
* Tx: Rx: standby=5:5:90.



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



BC-119N **BC-119N+AD-100**
BC-119N DESKTOP CHARGER
+ **AD-100 CHARGER ADAPTER**
+ **BC-145A/E/ AC ADAPTER**
Rapidly charges the BP-227 in 2.5–3 hrs.



BC-121N **BC-121N+AD-100 (6 pcs)**
BC-121N MULTI-CHARGER + **AD-100 CHARGER ADAPTER**
+ **BC-124 AC ADAPTER**
Rapidly charges up to 6 battery packs (Six AD-100s are required) in 2.5–3 hours.
OPC-656 DC POWER CABLE; For use with the BC-121. (12–20V DC required).



HM-138: Full sized, waterproof construction corresponds to JIS Grade 7. (1 m/30 min.).



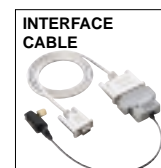
MB-86: Swivel type. Prevents accidental dropping from your belt.
MB-98: Alligator type. Same as supplied.



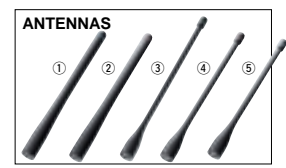
MB-96F: Leather belt hanger. For use with MB-98.



CP-17L: CIGARETTE LIGHTER CABLE
OPC-515L: DC POWER CABLE
For use with the BC-152 or BC-119N. (12–16V DC required)



OPC-966: RS-232C interface cable for connecting with a PC.



① **FA-S24V:** 136–150MHz (Blue ring)
② **FA-S59V:** 150–174MHz (Red ring)
③ **FA-S27U:** 400–470MHz (Green ring)
④ **FA-S56U:** 450–520MHz (Red ring)
⑤ **FA-S74U:** 490–520MHz (Blue ring)

SPECIFICATIONS

GENERAL	
• Frequency range	: IC-F50 136–174MHz IC-F60 400–470MHz 450–512MHz (U.S.A.) 450–520MHz (General)
• Number of Channels	: Max. 128 channels/ 8 banks
• Channel spacing	: 12.5/25kHz, 15/30kHz
• Antenna impedance	: 50Ω (SMA Type)
• Frequency error	: ±2.5ppm
• PLL channel step	: IC-F50 2.5/3.125kHz IC-F60 5/6.25kHz
• Power supply requirement	: 7.2V DC
• Current drain (approx)	: Transmit at 5W 1.5A (IC-F50) at 4W 1.5A (IC-F60) at 1W 0.7A (IC-F50) 0.8A (IC-F60)
	: Receive AF max. 300mA Stand-by 85mA
• Operating temperature range	: –30°C to +60°C; –22°F to +140°F
• Dimensions (W × H × D)	: 56 × 97 × 36.4 mm ; (projections not included) 2 ⁷ / ₃₂ × 3 ¹³ / ₁₆ × 1 ⁷ / ₁₆ in.
• Weight (approx.; With BP-227)	: 280g; 9.9oz

TRANSMITTER	
• Output power	: IC-F50 5.0W IC-F60 4.0W
• Modulation system	: Variable reactance frequency modulation
• Max. frequency deviation	: ±5kHz (wide) ±2.5kHz (narrow)
• Modulation limiting	: 60–100% of Max. deviation
• Audio harmonic distortion	: 3% typ. (AF 1kHz, 40% deviation)
• Spurious emissions	: 70dB Min.
• Adjacent channel power	: 70dB Min. (wide) 60dB Min. (narrow)
• FM Hum and Noise	: 46dB typ. (wide) 40dB typ. (narrow)
• External MIC impedance	: 9-pin multi connector/2.2kΩ

Measurements made in accordance with EIA-152C/204D, TIA-603.
All stated specifications are subject to change without notice or obligation.

RECEIVER	
• Sensitivity	: 0.25μV typ. (at 12dB SINAD)
• Squelch sensitivity	: 0.25μV typ. (at threshold)
• Adjacent channel selectivity	: 75dB typ. (wide) 65dB typ. (narrow)
• Spurious response	: 70dB
• Intermodulation	: 74dB typ.
• Hum and noise	: 45dB typ. (wide) 40dB typ. (narrow)
• Audio output power	: 0.5W typ. at 5% distortion with an 8Ω load
• External SP connector	: 9-pin multi connector/8Ω

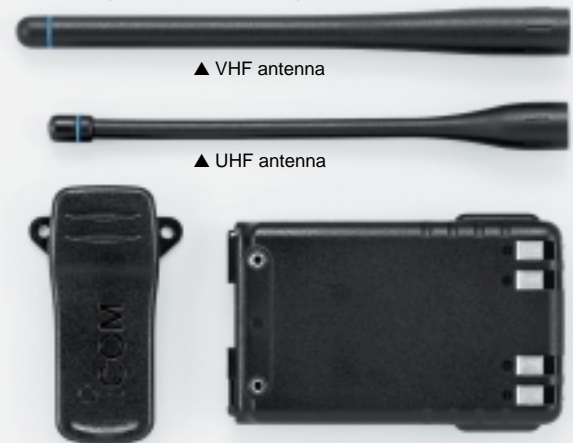
Applicable U.S. Military Specifications

Icom makes rugged products that meet MIL-STD requirements and strict environmental standards as follows.

Standard	MIL 810C		MIL 810D		MIL 810E		MIL 810F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Vibration	514.2	X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, IV	516.3	I, IV	516.4	I, IV	516.5	I, IV

Supplied accessories:

- Antenna (Length may differ according to version)



- Alligator-type belt clip, MB-98
- Battery pack, BP-227

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