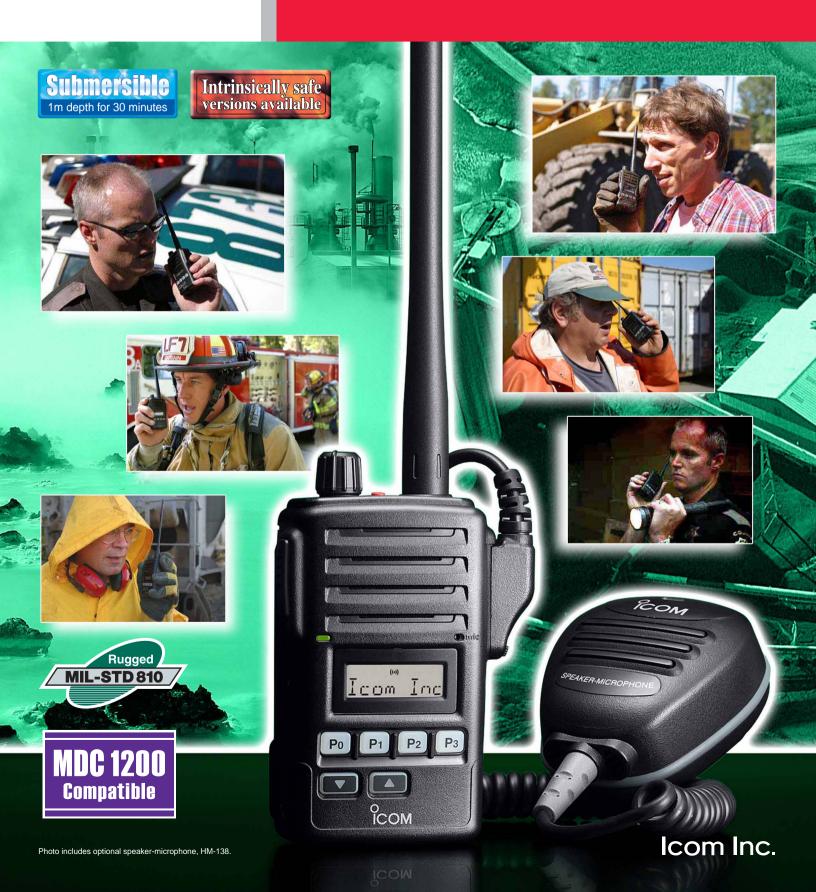


VHF AND UHF TRANSCEIVERS

IC-F50 IC-F60

(VHF Transceiver)

(UHF Transceiver)





Superior Wat Supports De

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

IPX7 waterproof protection

The gasket sealed waterproof housing pro-

vides superior waterproof protection, equivalent to IPX7*. 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.



* According to the international standard IEC 529 (1989). 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
- Stun Answer back
- Beep sound
 Auto transmit
 Scan

VHF AND UHF TRANSCEIVERS

C-F50 VHF transceiver C-F60

UHF transceiver

terproof Protection manding Communication

Oil industry and Public utilities. Each profession has its all have one thing in common: the need for reliable comf60 offers a compact waterproof, MIL STD package, that's his radio keeps you in contact in nearly any environment.



Li-lon 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 zones 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

 $56(W)\times97(H)\times36.4(D)$ mm* compact body with durable, dependable construction, has been tested to MIL standard specifications. * $27/32(W)\times313/16(H)\times17/16(D)$ 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.

MDC 1200 Compatible

The following selective calling and ANI features are available with the built-in MDC signaling.

- PTT ID
- Radio check
- Caller ID
- Selective call
- Emergency, emergency mic monitoring
- Radio stun/revive 500 Aliases
- Status/message Call alert

Intrinsically safe version

Intrinsically safe version approved by the FMRC, is suitable for use in hazardous areas where flammable gasses or liquids are used. See specification page for applied classes.

Other features

• Built-in audio compander • 8 DTMF autodial memories • BIIS 1200 mode programmable • 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

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



BP-226 BATTERY CASE: AA (LR6)×5 alkaline cells. BP-226 is water-resistant, equivalent to IPX4. BP-227/BP-227FM Li-lon 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.

BP-227FM is intrinsically safe version.



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



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



BC-121N MULTI-CHARGER + AD-100 CHARGER ADAPTER + BC-157 AC ADAPTER

Rapid 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-121N, (12–20V DC required)



HM-168: Compact type speaker-microphone. Equivalent to IPX7. HM-169: Rugged type speaker-microphone. Equivalent to IP57. HM-170GP: GPS speaker-microphone for BIIS mode. Equivalent to IP57. HM-138: Full sized speaker-microphone. Equivalent to IPX7.



MB-86: Swivel type belt clip.
MB-98: Alligator type. Same as supplied.
MB-96N: Swivel type belt hanger.
MB-96F: Fixed type belt hanger.



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.

ANTENNAS

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

STUBBY ANTENNAS

FA-S62VS: 150–162MHz (Red ring) FA-S63VS: 160–174MHz (Green ring) FA-S57US: 450–490MHz (Red ring)

SPECIFICATIONS

GENERAL Frequency range 136-174MHz IC-F50 IC-F60 400-470MHz 450-512MHz (U.S.A.) 450-520MHz (General) : Max. 128 channels/ 8 zones Number of Channels : 12.5/25kHz, 15/30kHz Channel spacing : 50Ω (SMA Type) Antenna impedance • 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 IC-F50 1.5A/0.7A (5W/1W) IC-F60 1.5A/0.8A (4W/1W) AF max. Receive 300mA

Stand-by 85mA

• Operating temperature range: -30°C to +60°C; -22°F to +140°F

• Dimensions (W × H × D) : $56 \times 97 \times 36.4 \text{ mm}$; $27/\!\!/_{32}\times3^{13}\!\!/_{16}\times17\!\!/_{16}$ in. (projections not included)

• Weight (approx.; With BP-227) : 280g; 9.9oz

TRANSMITTER				
Output power	: IC-F50	5.0W		
	IC-F60	4.0W		

: Variable reactance frequency modulation Modulation system

• 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

INTRINSICALLY SAFE TYPE APPROVAL



There are versions that conform to intrinsically safe rating of the FMRC (Factory Mutual Research Corporation). Ask your dealer for details

Intrinsically safe: Class I, II and III, Division 1, Groups C, D, E, F, and G; Nonincendive: Class I. Division 2. Groups A. B. C and D hazardous locations when used with Icom BP-227FM battery pack. "Max. Temp. T3C at 40°C" Approved accessories: Speaker-microphone, HM-138

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RECEIVER Sensitivity : 0.25µV typ. (at 12dB SINAD) Squelch sensitivity : 0.25µV typ. (at threshold) Adjacent channel selectivity : 75dB tvp. (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/8 Ω

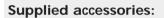
Measurements made in accordance with EIA-152C/204D, TIA-603. All stated specifications are subject to change without notice or obligation.

Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810F		
	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 Blowing/Drip	506.4	I, III	
Humidity	507.4	-	
Salt Fog	509.4	-	
Dust Blowing	510.4	I	
Vibration	514.5	Ī	
Shock	516.5	I, IV	

Also meets equivalent MIL-STD-810-C, -D and -E.



Antenna (Length may differ according to version)



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