



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. unique challenges, but all ha cations. Icom's IC-F50/F60 of to use. Rain or shine, this ra

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



▼ IC-F50

▼ IC-F60

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IC-F50

VHF transceiver

IC-F60

UHF transceiver

Waterproof Protection Demanding Communication

Oil industry. Public utilities. Each profession has its own. We have one thing in common: the need of reliable communication. We offer a compact waterproof, MIL STD package, that's easy to use. Our 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 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 glance.



Upper and lower 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, a rolling type voice scrambler is available depending on version. The rolling type scrambler system is fully compatible with the UT-110.

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



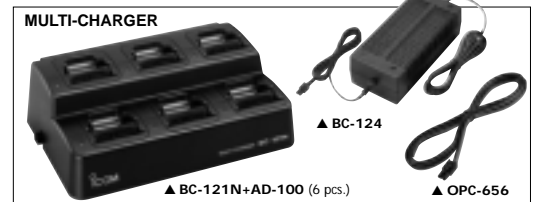
BP-226 BATTERY CASE: AA (R6)×5 alkaline cells. BP-226 is Water-resistant, equivalent to JIS Grade 4.
BP-227 Li-Ion BATTERY PACK, 7.2V/1700mAh Provides 10 hours operating time* (approx.). Operating temp. range: -20°C to +60°C; -4°F to +140°F.
* Tx: Rx: standby=5:5:90.



BC-152 DESKTOP CHARGER + 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-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.



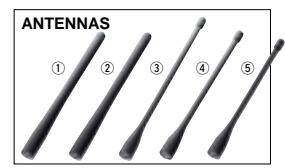
MB-96F: Leather belt hanger. For use with MB-98.



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 PC.



ANTENNAS
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) 2⁷/₃₂ × 3¹³/₁₆ × 1⁷/₁₆ 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

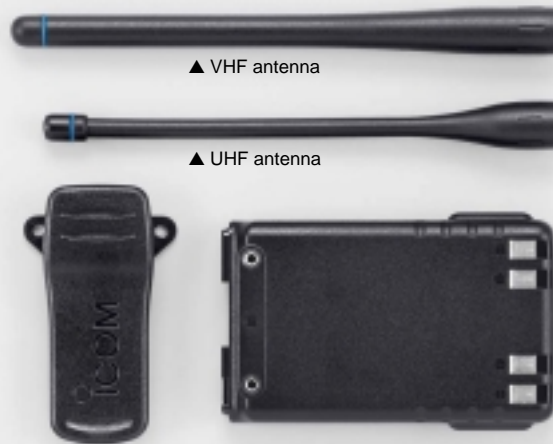
Applicable U.S. Military Specifications

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
- Battery pack, BP-227

Icom Inc. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

Count on us!

Icom America Inc.
<Corporate Headquarters>
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.
Phone: +1 (425) 454-8155 Fax: +1 (425) 454-1509
URL : <http://www.icomamerica.com>
<Customer Service> Phone: +1 (425) 454-7619

Icom (Europe) GmbH
Communication Equipment
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany
Phone: +49 (0211) 346047 Fax: +49 (0211) 333639
URL : <http://www.icomeurope.com>

Asia Icom Inc.
6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C.
Phone: +886 (02) 2559 1899 Fax: +886 (02) 2559 1874
URL : <http://www.asia-icom.com>

Your local distributor/dealer:

Icom Canada
Glenwood Centre #150-6165 Highway 17,
Delta, B.C., V4K 5B8, Canada
Phone: +1 (604) 952-4266 Fax: +1 (604) 952-0090
URL : <http://www.icomcanada.com>

Icom Spain S.L.
Crta. de Gracia a Manresa Km. 14,750
08190 Sant Cugat del Valles Barcelona, SPAIN
Phone: +34 (93) 590 26 70 Fax: +34 (93) 589 04 46
URL : <http://www.icomspain.com>

Beijing Icom Ltd.
1305, Wanshang Plaza, Shijingshan Road, Beijing, China
Phone: +86 (010) 6866 6337 Fax: +86 (010) 6866 3553
URL : <http://www.bjicom.com>

Icom (Australia) Pty. Ltd.
A.B.N. 88 006 092 575
290-294 Albert Street, Brunswick, Victoria, 3056, Australia
Phone: +61 (03) 9387 0666 Fax: +61 (03) 9387 0022
URL : <http://www.icom.net.au>

Icom (UK) Ltd.
Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.
Phone: +44 (01227) 741741 Fax: +44 (01227) 741742
URL : <http://www.icomuk.co.uk>

Icom New Zealand
146A Harris Road, East Tamaki, Auckland, New Zealand
Phone: +64 (09) 274 4062 Fax: +64 (09) 274 4708
URL : <http://www.icom.co.nz>

Icom France S.a
Zac de la Plaine, 1, Rue Brindejonc des Moulinais
BP 5804, 31505 Toulouse Cedex, France
Phone: +33 (5) 61 36 03 03 Fax: +33 (5) 61 36 03 00
URL : <http://www.icom-france.com>



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