

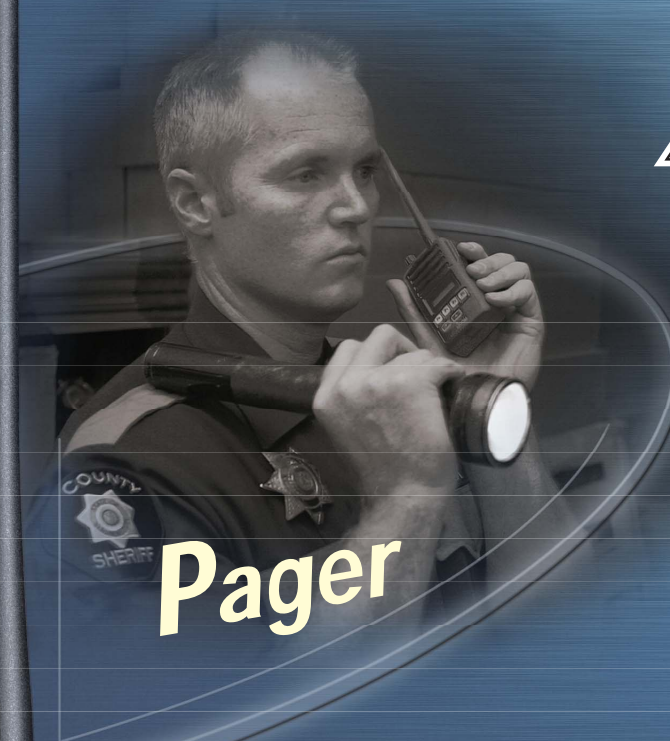


VHF TRANSCEIVER

IC-F50V



Radio



Pager



128 ch/
8 zones

2-Tone, 5-Tone
MDC-1200 compatible

5W RF
700mW AF

IP67 Dust-tight
and Waterproof

8-character
LCD display

Voice
recorder

Vibration
alert



VIBRATION ALERT



700 ^{mW}_(typ.) AUDIO OUTPUT



VOICE STORAGE



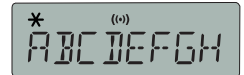
Never miss in with loud audio, vibration

Vibration alert function

When a pre-programmed 2-tone/5-tone code or call from a specific user (MDC mode only) is received, the radio vibrates powerfully enough to be felt through heavy clothing.

8 minute voice recorder

When a pre-programmed 2-tone/5-tone code or a SelCall (MDC mode only) is received, the voice recorder automatically starts recording the incoming message. You will not miss an important call even when you are temporarily away from the radio. You can manually start recording incoming calls and also your own message. It records up to a maximum of 8 minutes (Or up to 48 calls of 10 sec. recording time).



" * " icon on the display shows you have a new message.

700mW audio output

The IC-F50V delivers a loud 700mW* audio output with the built-in BTL amp. The built-in audio compander provides clear, low noise communications. Improved bass characteristics also better the audio quality.

* Typical with internal speaker.

Lone worker function for remote check in

When the radio is not operated for a preset period (1 to 255 min.), the radio sounds a beep and requires you to push any button. If the radio is not operated for a preset time (1 to 255 sec.), an emergency signal automatically transmits and informs your co-worker or dispatcher that something may have happened to the individual worker.

IP67, dust-tight and waterproof protection

The IC-F50V has outstanding protection against dust and water that is equivalent to IP67. The IC-F50V can withstand submersion in 1m depth of water for up to 30 minutes and has dust-tight construction that prevents the ingress of dust.



Most popular signalings built-in

Use the built-in CTCSS, DTCS, 2-Tone, 5-Tone and MDC signaling capabilities to set up your talk group or selective calling. The IC-F50V can decode ten 2-Tone codes or eight 5-Tone codes on a channel. When a matched tone is received, the following actions are programmable for each code.

- Bell icon
- Answer back call
- Beep sound
- Auto transmit
- Radio Stun/Kill/Revive
- Voice recorder
- Vibration alert



VHF TRANSCEIVER

IC-F50V

Important calls in alert and voice recorder!

MDC 1200 Compatible

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

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

Mode dependent scan

In the mode dependent setting, the scanning setting is dependent on the operating channel. When you change the operating channel, the scanning list automatically changes to the operating channel setting. It is convenient when you move to a different operating area and change an operating channel, you don't have to change the scanning setting.

Enhanced scanning

The Tx channel while scanning can be programmed per scanning list. The talk back function allows you to transmit on the channel detected after scanning resumes after a preset time, prior to the Tx channel setting. The nuisance delete function temporarily deletes a busy channel from the scanning list. Backlight at scan stop automatically turns on the LCD backlight when the scan stops.

Compact body

56(W)×97(H)×36.4(D) mm* compact body with durable, dependable construction, has been tested to MIL standard specifications. * 2⁷/₃₂(W)×3¹³/₁₆(H)×1⁷/₁₆(D) in

Li-Ion battery pack

The large capacity 1700mAh Lithium-Ion (Li-Ion) battery pack, BP-227 provides a practical 9–10 hours* of operating time. * Typical operation Tx:Rx: Stand-by=5:5:90

Other features

- 128 memory channels with 8 zones
- Inversion type*¹ voice scrambler built-in
- Optional VOX headsets available
- Optional GPS speaker-microphone
- Power ON password
- 8 DTMF autodial
- 8-character alphanumeric display
- Normal and priority scans
- 2-step power saver and 2-step low battery beep
- BIIS 1200 mode programmable
- Busy, repeater lockout functions
- BTL only version (no vibration alert and no voice recorder) and BTL/Vibration alert version (no voice recorder) available*² and more...

*¹ Inversion type voice scrambler is not compatible with UT-109/UT-110 voice scrambler. UT-109/UT-110 cannot be physically installed into the IC-F50V.

*² Not available in some countries. (Not available in the U.S.)

OPTIONS

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

BATTERY PACK & CASE



BP-226 : AA (LR6)×5 BATTERY CASE
BP-226 is water-resistant, equivalent to IPX4.
BP-227 : 7.2V/1700mAh Li-Ion BATTERY PACK
Provides 9–10 hours operating time* (approx.).
Operating temp. range: -20°C to +60°C; -4°F to +140°F.
* Tx: Rx: standby=5:5:90.

BATTERY CHARGER



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

RAPID CHARGER



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

MULTI-CHARGER



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.

HEADSETS & VOX/PTT CASE



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.

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.
HM-170GP : GPS speaker-microphone for BIIS mode. Equivalent to IP57.

BELT CLIPS & LEATHER BELT HANGERS



MB-86 : Swivel type. Prevents accidental dropping from your belt.
MB-98 : Alligator type. Same as supplied.
MB-96F : Fixed type belt hanger for use with MB-98.
MB-96N : Swivel type belt hanger.

POWER SUPPLY CABLES



CP-17L : CIGARETTE LIGHTER CABLE
For use with BC-119N and BC-152.
OPC-515L : DC POWER CABLE
For BC-119N and BC-152.
OPC-656 : DC POWER CABLE for BC-121N.

ANTENNAS



ANTENNAS
FA-S24V : 136–150MHz (Blue)
FA-S59V : 150–174MHz (Red)
STUBBY ANTENNAS
FA-S62VS : 150–162MHz (Red, 90mm)
FA-S63VS : 160–174MHz (Green, 90mm)

SPECIFICATIONS

GENERAL

- Frequency range : 136–174MHz
- Number of channels : Max. 128 channels/ 8 zones
- Channel spacing : 12.5/25kHz
- Antenna impedance : 50Ω (SMA Type)
- Frequency error : ±2.5ppm
- PLL channel step : 2.5/3.125kHz
- Power supply requirement : 7.2V DC
- Current drain (approx) :

Transmit	5W	1.8A
	1W	0.7A
Receive	AF max.	500mA (Internal speaker)
		350mA (External speaker)
	Stand-by	85mA
- Operating Temp. 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.) : 280g; 9.9oz (With BP-227)

TRANSMITTER

- Output power : 5.0W
- 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 typ.
- 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 : 0.7W typ. (Internal speaker)
0.5W typ. (External speaker)
at 5% distortion with an 8Ω load
- External SP connector : 9-pin multi connector/8Ω

Applicable U.S. Military Specifications & IP Rating

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and Ingress Protection 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	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)

Supplied accessories:

- Antenna (Length may differ according to version)



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

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Icom Inc.

1-1-32, Kami-minami, 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.

2380 116th Avenue NE,
Bellevue, WA 98004, U.S.A.
Phone : +1 (425) 454-8155
Fax : +1 (425) 454-1509
E-mail : sales@icomamerica.com
URL : <http://www.icomamerica.com>

Icom Canada

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

Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road,
Clayton, VIC 3168 Australia
Phone : +61 (03) 9549 7500
Fax : +61 (03) 9549 7505
E-mail : sales@icom.net.au
URL : <http://www.icom.net.au>

Icom New Zealand

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

Icom (Europe) GmbH

Communication Equipment
Himmelgeister Str. 100,
D-40225 Düsseldorf, Germany
Phone : +49 (0211) 346047
Fax : +49 (0211) 333639
E-mail : info@icom-europe.com
URL : <http://www.icomeurope.com>

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer"
08190, Sant Cugat del Valles, Barcelona, Spain
Phone : +34 (93) 590 26 70
Fax : +34 (93) 599 04 46
E-mail : icom@icomspain.com
URL : <http://www.icomspain.com>

Icom (UK) Ltd.

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

Icom France s.a.s.

Zac de la Plaine,
1 Rue Brindejone des Moulinais, BP 45804,
31505 Toulouse Cedex 5, France
Phone : +33 (5) 61 36 03 03
Fax : +33 (5) 61 36 03 00
E-mail : icom@icom-france.com
URL : <http://www.icom-france.com>

Icom Polska

Sopot, 3 maja 54, Poland
Phone : +48 (58) 550 7135
Fax : +48 (58) 551 0484
E-mail : icompolka@icompolka.com.pl
URL : <http://www.icompolka.com.pl>

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
E-mail : sales@asia-icom.com
URL : <http://www.asia-icom.com>

Beijing Icom Ltd.

10007, Long Silver Mansion, No.88, Yong Ding
Road, Haidian District, Beijing, 100039, China
Phone : +86 (010) 5889 5391/5392/5393
Fax : +86 (010) 5889 5395
E-mail : bjicom@bjicom.com
URL : <http://www.bjicom.com>

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