O ICOM

Radio

Icom Inc

ÎCOM

P1

Po

P2

P3

VHF AND UHF TRANSCEIVERS

Pager

IC-F50V IC-F60V

(VHF Transceiver)

(UHF Transceiver)

MIL-STD810

Rugged

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



Never miss ir with loud audio, vibratio

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 recording function

When a pre-programmed 2-tone/5-tone code or a SelCall (MDC mode only) is received, the voice recording function 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).



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

700 mW audio output

The IC-F50V series delivers a loud 700 mW* audio output with the built-in BTL amp. The built-in audio compander provides clear, low noise communications. Improved bass characteristics also betters 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 series has outstanding protection against dust and water that is equivalent to IP67. The IC-F50V series can withstand submersion in 1 m 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 series 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

VIBRATION ALEBT Icom Inc Icom Inc. P1 P2 P3 P1 P2 P3 P0 • • СОМ о ICOM

VHF AND UHF TRANSCEIVERS IC-F50V (VHF transceiver) IC-F60V (UHF transceiver)

nportant calls

n 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) \times 97 (H) \times 36.4 (D) mm* compact body with durable, dependable construction, has been tested to MIL standard specifications. * 2.2 (W) \times 3.8 (H)×1.4 (D) in

Li-ion battery pack

The large capacity 1950 mAh (typ.) Lithium-ion battery pack, BP-227 provides a practical 9–10 hours* of operating time. With the new BC-190 charger, catch calls even during the night while charging the battery with the radio power on. * 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 radio.
- *² Not available in some countries. (Not available in the U.S.)

OPTIONS

BATTERY PACK & CASE

RAPID CHARGER



BP-226: AA (LR6)×5 BATTERY CASE

 BP-226 is water-resistant, equivalent to IPX4.
 + BC-157S AC ADAP

 BP-227: Rechargeable Li-ion battery, 1850 mAh
 + BC-157S AC ADAP

 Rapidly charges up to find (typ.). Provides 9–10 hours operating time* (approx.). Operating temp. range: -20 °C to 4+00 °C; -4 °F to +140 °F. * Tx: Rx: standby=5:5:90.
 + BC-157S AC ADAP

BATTERY CHARGER



+ BC-1235⁻¹ AC ADAPTER + BC-1475⁻¹ AC ADAPTER

+ **BC-123S**^{*1} AC ADAPTER Rapidly charges the BP-227. Charge the radio, even when the radio power is on.

*1 BC-123/BC-147SA for USA plug. SE for Europe plug. SV for Australia plug.

HEADSETS & VOX/PTT CASE



Regularly charges the BP-227 in

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-1SC: VOX/PTT CASE. Required when using these headsets with the transceiver. These headsets and VS-1SC are water-resistant, equivalent to IPX4.

9-10 hours



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-169: Rugged type speaker-microphone. Equivalent to IP57. HM-170GP: GPS speaker-microphone for BIIS mode. Equivalent to IP57.

HM-1700F. GF3 speaker-microphone for Bh3 mode. Equiv



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.





CP-23L: CIGARETTE LIGHTER CABLE for use with BC-152N.

OPC-515L: DC POWER CABLE for use with BC-152N.

OPC-656: DC POWER CABLE for BC-197.

ANTENNAS

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

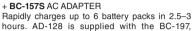
STUBBY ANTENNAS

FA-S62VS: 150–162 MHz (Red, 90 mm) FA-S63VS: 160–174 MHz (Green, 90 mm) FA-S57US: 450–490 MHz (Red, 70 mm)



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

BC-197 MULTI-CHARGER





MB-130 CHARGER BRACKET For use with BC-190.

VHF AND UHF TRANSCEIVERS

IC-F50V • IC-F60V

RECEIVER

: 70 dB

Applicable U.S. Military Specifications & IP Rating

MIL-STD requirements and Ingress Protection standards

: 74 dB typ.

Icom makes rugged products that have been tested to and passed the following

Method

500.4 501.4

502.4

: 75 dB typ. (wide)

: 45 dB typ. (wide) 40 dB typ. (narrow)

65 dB typ. (narrow)

: 0.25 µV typ. (at 12 dB SINAD)

: 0.7 W typ. (Internal speaker) 0.5 W typ. (External speaker) at 5% distortion with an 8 Ω load

: 9-pin multi connector/8 Ω

MIL 810F

Procedure

I, II I, II

I, II

SPECIFICATIONS

GENERAL				
• Frequency range IC-F50V IC-F60V	: 136–174 MHz 400–470 MHz 450–512 MHz (U.S.A.) 450–520 MHz (General)			
 Number of channels 	: Max. 128 channels/ 8 zones			
 Channel spacing 	: 12.5/25 kHz, 15/30 kHz			
 Type of emission 	: 11K0F3E, 16K0F3E			
 Antenna impedance 	: 50 Ω (SMA Type)			
 Frequency stability 	: ±2.5 ppm			
 PLL channel step 	: 2.5/3.125 kHz			
 Power supply requirement 	t : 7.2 V DC			
 Current drain (approx) Transmit High 	: 1.8 A			
Receive AF max.	300 mA typ. (External speaker)			
Stand-by	/ 85 mA			
 Operating Temp. range 	: –30 °C to +60 °C; –22 °F to +140 °F			
 Dimensions (W × H × D) (projections not included) 				
• Weight (approx.) VHF UHF	: 280 g; 9.9 oz (With BP-227) 284 g; 10.0 oz (With BP-227)			

TRANSMITTER

Output power		: 5 W, 2 W, 1 W (Hi, Low2, Low1) 4 W, 2 W, 1 W (Hi, Low2, Low1)		
 Max. frequency 	deviation	: ±5 kHz (wide) ±2.5 kHz (narrow)		
 Spurious emissions 		: 70 dB min.		
 Adjacent channel power 		: 70 dB min. (wide) 60 dB min. (narrow)		
Audio harmonic distortion : 3% typ. (AF 1kHz, 40% deviation)				
• FM Hum and N	oise	: 46 dB typ. (wide) 40 dB typ. (narrow)		
 External MIC in 	npedance	: 9-pin multi connector/2.2 k Ω		

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

Count on us!

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries.

ICOM Inc. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 www.icom.co.jp/world

Icom America Inc. 12421 Willows Road NE, Kirkland, WA 98034, 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 17A, 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 Brazil

Rua Itororó, 444 Padre Eustáguio Belo Horizonte MG, CEP: 30720-450, Brazil Phone: +55 (31) 3582 8847 Fax: +55 (31) 3582 8987 E-mail: sales@icombrazil.com

Icom (Europe) GmbH Communication Equipment Auf der Krautweide 24 65812 Bad Soden am Taunus, Germany Phone: +49 (6196) 76685-0 Fax: +49 (6196) 76685-50 mail: info@icomeurope.com E-mail URL: http://www.icomeurope.com

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain Phone: +34 (93) 590 26 70 Fax: +34 (93) 589 04 46 E-mail: icom@icomspain.com URL: http://www.icomspain.com

Icom (UK) Ltd.

Blacksole House, Altira Park Herne Bay, Kent, CT6 6GZ, U.K. Phone: +44 (0) 1227 741741 Fax: +44 (0) 1227 741742 E-mail: info@icomuk.co.uk URL: http://www.icomuk.co.uk

Icom France s.a.s.

Zac de la Plaine, 1 Rue Brindejonc 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 (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

39C Rennie Drive, Airport Oaks, 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

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

Shanghai Icom Ltd.

No.101, Building 9, Cafuxingyuan Park, No.188 Maoting Road, Chedun Town, Songilang District, Shanghai, 201611, China Phone: +86 (021) 6153 2768 Fax: +86 (021) 5765 9987 E-mail: bjicom@bjicom.com URL: http://www.bjicom.com

Your local distributor/dealer:

Temperature Shock	503.4	Ι			
Solar Radiation	505.4	Ι			
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:					

Sup

 Sensitivity Adjacent channel

selectivity

Spurious response

Audio output power

External SP connector

Intermodulation

Hum and noise

Standard

Low Pressure High Temperature

Low Temperature

