



UHF TRANSCEIVERS

IC-F43GT (With 10-keypad)

IC-F43GS (Without 10-keypad)



Meets
MIL-STD 810

BIIS 1200
Compatible

Icom Inc.



Advanced functions

The IC-F43G series is suitable for a variety of needs — large or small, mobile or stationary. Whether you are a large-scale construction site, warehouse, hospital or hotel, or a small on the go messenger service, this radio provides the built-in flexibility to handle your communication needs.

Offering advanced features such as wide frequency range, multiple signaling and loud audio, the IC-F43G series is a rugged and reliable 2-way communications tool. This is the new direction in LMR communications.



Lithium-Ion battery pack

The large capacity 1150mAh Li-Ion battery pack, BP-231, provides 8 hours* of operating time. For longer operating time, use the BP-232 which is rated for a full 15 hours*. Li-Ion technology has virtually no memory charging issues. A rugged dual-rail guide securely locks the battery to the radio.

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

Wide frequency range and large channel capacity

The IC-F43G series covers a wide frequency range in one version (Two versions available, 400–470MHz or 450–512 (520) MHz). The 256 memory channel capacity with 16 memory banks allows you to divide and store a variety of flexible channel groupings. Easy memory channel selection with a simple rotation of the rotary channel knob.

Small and lightweight body

The IC-F43G series sheds size and weight compared with previous models, weighing just 300g (including BP-231) and measuring only 53(W)×120(H)×32.5(D) mm*. The aluminum die-cast chassis and polycarbonate casing combination meets MIL standard specifications.

* 10.6 oz, 2³/₃₂(W)×4²³/₃₂(H)×1⁹/₃₂(D) in

Built-in multi-format tone signaling

Use the built-in CTCSS, DTCS, 2-Tone, 5-Tone or BIIS 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.

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IC-F43GT

With 10-keypad

IC-F43GS

Without 10-keypad



is packed in a tough, lightweight body

Multiple 2-Tone, Multiple 5-Tone

Encode or decode up to 10 2-Tone codes 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

8 programmable buttons

The [P0]–[P3], [▲], [▼], [Red] and [Monitor] 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. A separate row of operational icons indicate battery, signal strength, RX/TX and other radio conditions.

Audio compander

The built-in audio compander reduces noise components and provides clear reception even in narrow band use.

Built-in voice scrambler

The IC-F43G series includes a built-in inversion type voice scrambler in all models. When a more secure system is required, the optional voice scrambler unit UT-109 or UT-110 is available.

BIIS 1200 compatible

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

- 32 abbreviated call memories
- 7 group IDs
- 24-status Messages
- Send 8-character SDM (Short Data Message)
- Receive up to 95 characters of free text

Other features

- 8 DTMF autodial memories
- 2 step reduced power setting
- Power saver
- Power on password
- Busy, repeater lockout functions
- SmarTrunk 3G™ ready (Coming soon)
- Flash ROM CPU
- Programmable wide and narrow channel bandwidth (25/12.5kHz) and more...

OPTIONS

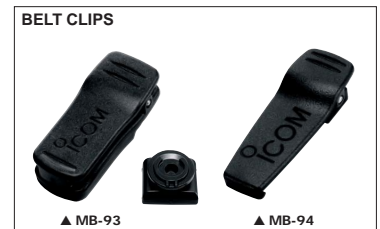


Battery packs	Type and capacity	Operating time*	Output power
BP-230	Li-Ion 7.4V/ 800mAh	6 hours	4W
BP-231	Li-Ion 7.4V/1150mAh	8 hours	4W
BP-232	Li-Ion 7.4V/2000mAh	15 hours	4W

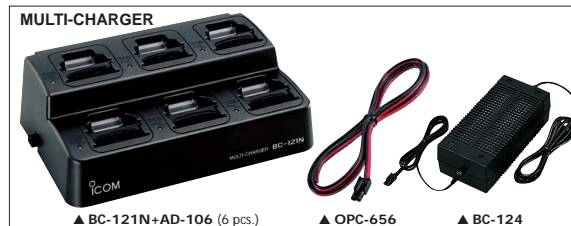
* Operating time is approximate time (at 20°C).
Tx: Rx: standby=5:5:90.



BC-119N DESKTOP CHARGER + AD-106 CHARGER ADAPTER + BC-145 AC ADAPTER
Rapidly charges the battery pack.
Charging time: approx. 2 hours when BP-231 is attached.
CP-17L : CIGARETTE LIGHTER CABLE, **OPC-515L** : DC POWER CABLE
For use with the BC-119N. (12–16V DC required)



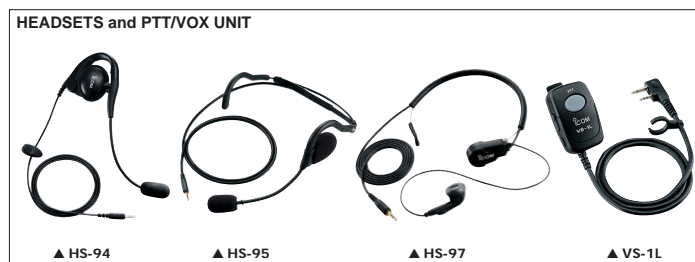
MB-93 : Swivel type. A fast and easy way to remove the transceiver from your belt.
MB-94 : Alligator type. Same as supplied.



BC-121N MULTI-CHARGER + AD-106 CHARGER ADAPTER + BC-124 AC ADAPTER
Rapidly charges up to 6 battery packs (Six AD-106s are required).
Charging time: approx. 2 hours when BP-231 is attached.
OPC-656 DC POWER CABLE : For use with the BC-121N. (12–20V DC required).



MB-96: Swivel type belt hanger. Swivel joint of the MB-93 required.
MB-96F: Fixed type belt hanger. For use with MB-94.

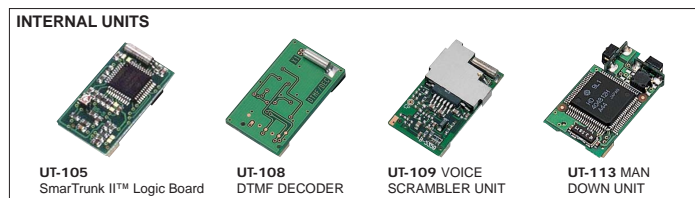


HS-94: Earhook headset with flexible boom microphone.
HS-95: Behind-the-head headset with flexible boom microphone.
HS-97: Throat microphone fits around your neck and picks up speech vibration.
VS-1L: PTT/VOX unit. Required when using these headsets with the transceiver.



HM-131L : Durable body. Equipped with an earphone jack and revolving clip.

SP-13 : EARPHONE
Provides clear audio in noisy environments.



UT-105 : Provides SmarTrunk II™ capabilities.
UT-108 : Provides DTMF Selective call and ANI capabilities.
UT-109 : Provides operating security. Up to 32 scrambling codes are available. Version 02 is required.
UT-110 : Provides higher operating security. Up to 1020 scrambling codes are available. Version 02 is required.
UT-113 : Automatically sends an emergency signal when the transceiver is left in a horizontal position for a preset time.



FA-SC73US : 60 mm stubby antenna.
Frequency range: 450–490MHz

ANTENNAS
• **FA-SC25U**: 400–430MHz
• **FA-SC57U**: 430–470MHz
• **FA-SC72U**: 470–520MHz

SPECIFICATIONS

GENERAL

- Frequency range : 400–470MHz (U.S.A. and General)
450–512MHz (U.S.A.)
450–520MHz (General)
- Number of channels : 256 channels/16 banks
- Channel spacing : 12.5kHz/25kHz
- PLL channel step : 5kHz, 6.25kHz
- Antenna impedance : 50Ω
- Usable temperature range : -30°C to +60°C; -22°F to +140°F
- Power supply requirement : 7.2V DC
- Current drain (at 7.2V DC; approx.):

Transmit	at 4W	1.7A
	at 1W	0.8A
Receive	stand-by	85mA
	rated output	300mA
- Dimensions (with BP-231) : 53 (W) ×120 (H) ×32.5 (D) mm;
(projections are not included) 2³/₃₂ (W) ×4²³/₃₂ (H)×1⁹/₃₂ (D) in
- Weight (with BP-231) : 300g; 10.6oz

TRANSMITTER

- Output power : 4W
- Max. frequency deviation : ±5kHz (Wide)
±2.5kHz (Narrow)
- Frequency error : ±2.5ppm
- Spurious emissions : 70dB typ.
- Adjacent channel power : 70dB (Wide)
60dB (Narrow)
- FM Hum and Noise : 46dB typ. (Wide)
40dB typ. (Narrow)
- Audio harmonic distortion : 3% typ. (AF 1kHz, 40% deviation)
- Modulation limiting : 60–100% of max. deviation
- External microphone connector :
3-conductor 2.5 (d) mm (1/10")/2.2kΩ

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

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RECEIVER

- Intermediate frequency : 1st 46.35MHz
2nd 450kHz
- 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 ratio : 45dB typ. (Wide)
40dB typ. (Narrow)
- Audio output power : 500mW typ.
(at 5% distortion with an 8Ω load)
- External speaker connector: 2-conductor 3.5 (d) mm (1/8")/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



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 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 (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 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 (Europe) GmbH

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

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 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>

Icom Polska

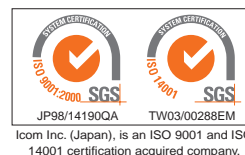
Sopot, 3 maja 54, Poland
Phone: +48 (58) 550 7135 Fax: +48 (58) 551 0484
URL : <http://www.icompolska.com.pl>

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
URL : <http://www.asia-icom.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>



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