

IC-F34GT

(VHF transceiver with 10-keypad)

IC-F34GS

(VHF transceiver without 10-keypad)

IC-F44GT

(UHF transceiver with 10-keypad)

IC-F44GS

(UHF transceiver without 10-keypad)



Advanced functions packed in a tough, lightweight body



The IC-F34G series is suitable for a variety of needs — large or small, mobile or stationary. Whether you are on a large-scale construction site, warehouse, hospital or hotel, or operating a small on the go messenger service, this radio provides the built-in flexibility to handle all your communication needs. Offering advanced features such as wide frequency range, multiple signaling and loud audio, the IC-F34G series is a rugged and reliable 2-way communications tool. This is the new direction in PMR communications.

Lithium-Ion battery pack

The large capacity 1150mAh Li-lon battery pack, BP-231, provides 8/9 hours* of operating time. For longer operating time, use the BP-232 which is rated for a full 15/16 hours*. Li-lon technology has virtually no memory charging issues. A rugged dual-rail guide securely locks the battery to the radio.

* UHF/VHF, typical operation Tx:Rx: Standby=5:5:90, power save on.

Wide frequency range and large channel capacity

The IC-F34G series covers a wide frequency range in one version (136–174, 400–470MHz). Wide, middle and narrow channel bandwidth* is programmable to each channel. 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 is possible with a simple rotation of the rotary channel knob. (* Programmable 25/12.5kHz or 20/12.5kHz)

Small and lightweight body

The IC-F34G series sheds size and weight compared with previous models, weighing just 285g* (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.

* VHF version.

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.

VHF TRANSCEIVERS

ICF34GT

With 10-keypad

Without 10-keypad

UHF TRANSCEIVERS
IC-F44GT
With 10-keypad
IC-F44GS
Without 10-keypad

осом

Icom Inc.

P₀ P₁ P₂ P₃



Multiple 5-Tone, Multiple 2-Tone

Encode or decode up to 8 5-Tone, 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
- Beep sound Auto transmit Scan
- 8-character text

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 list name 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-F34G 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
- Optional SmarTrunk 3G™ unit, UT-117
- Flash ROM CPU
- Optional headset and speaker microphone available and more...





OPTIONS



Battery packs	Type and capacity	Operating time* (VHF/UHF)	Output power (VHF/UHF)	
BP-230	Li-Ion 7.4V/ 800mAh	6/6 hours	5W/4W	
BP-231	Li-lon 7.4V/1150mAh	9/8 hours	5W/4W	
BP-232	Li-Ion 7.4V/2000mAh	16/15 hours	5W/4W	

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

BELT CLIPS



BC-160 DESKTOP CHARGER + **BC-145** AC ADAPTER Charges the BP-231 in 2 hours (approx.).

BC-119N DESKTOP CHARGER + **AD-106** CHARGER ADAPTER + **BC-145** AC ADAPTER : Charges the BP-231 in 2 hours (approx.).

CP-17L: CIGARETTE LIGHTER CABLE, **OPC-515L**: DC POWER CABLE For use with the BC-160 or BC-119N. (12–16V DC required).



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-93: Swivel type. A fast and easy way

MB-94 : Alligator type. Same as supplied.

your belt.

to remove the transceiver from

MB-96N : Swivel type belt hanger. Swivel joint of the MB-93 supplied.

MB-96F: Fixed type belt hanger. For use with MB-94.

HEADSETS and PTT/VOX UNIT

A HS-94

A HS-95

A HS-97

A VS-1L

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.

UT-105
Smar/Trunk IITM Board DTMF DECODER UT-109 VOICE UT-113 MAN UT-117
SCRAMBLER UNIT DOWN UNIT Smar/Trunk 3GTM Board

UT-105 : Provides SmarTrunk II™ capabilities.

UT-108 : Provides DTMF, Selective call and ANI capabilities.

UT-109: Up to 32 scrambling codes are available. Version 02 is required.

UT-110: 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.

UT-117: Provides SmarTrunk 3G[™] and SmarTrunk II[™] capabilities. Enhanced calling features available.



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

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



STUBBY ANTENNAS

• FA-SC56VS: 150–162MHz • FA-SC57VS: 160–174MHz • FA-SC73US: 450–490MHz

ANTENNAS

• FA-SC25V : 136–150MHz • FA-SC55V : 150–174MHz

FA-SC55V: 150–174MHz
 FA-SC25U: 400–430MHz
 FA-SC57U: 430–470MHz

VHF AND UHF TRANSCEIVERS IC-F34GT/GS • IC-F44GT/GS

SPECIFICATIONS

Frequency range

IC-F34GT/GS 136-174MHz IC-F44GT/GS 400-470MHz

 Number of channels : 256 channels/16 banks Channel spacing : 12.5kHz/20kHz/25kHz : 2.5kHz, 3.125kHz (VHF) PLL channel step

GENERAL

5kHz, 6.25kHz (UHF)

 Antenna impedance : 50Ω

• Usable temperature range : -25°C to +55°C • Power supply requirement: 7.2V DC nominal

• Current drain (at 7.2V DC; approx.):

Transmit at 5W/4W 1.5A/1.7A (VHF/UHF) at 1W 0.7A/0.8A (VHF/UHF)

stand-by Receive 85mA rated output 300mA

: 53 (W) ×120 (H) ×32.5 (D) mm Dimensions

(projections are not included)

• Weight (with BP-231 and ANT): 285g (VHF)

300g (UHF)

TRANSMITTER

: 5W (VHF), 4W (UHF) Output power

Max. frequency deviation: ±5.0/4.0/2.5kHz (Wide/middle/narrow)

 Frequency error : ±1.5kHz

 Spurious emissions : 0.25µW (below 1GHz)

1.0µW (above 1GHz)

Adjacent channel power : 70dB (Wide, middle)

60dB (Narrow)

• Residual modulation (With CCITT filter):

VHF 55/53/50dB typ. (Wide/middle/narrow) UHF 48/46/43dB typ. (Wide/middle/narrow)

• Audio harmonic distortion: 3% typ. (AF 1kHz, 40% deviation) Modulation limiting : 60-100% of max. deviation Ext. microphone connector: 3-conductor 2.5 (d) mm/2.2kΩ

Measurements made in accordance with EN 300-086. All stated specifications are subject to change without notice or obligation.

SmarTrunk II and SmarTrunk 3G are trademarks of SmarTrunk Systems, Inc. All other trademarks are the properties of their respective holders.

RECEIVER

· Intermediate frequency : 1st 46.35MHz

2nd 450kHz

 Sensitivity : -4dBuV tvp. (emf. at 20dB SINAD)

 Squelch sensitivity : -4dBµV typ. (emf, at threshold)

· Adjacent channel selectivity:

VHF 75/75/65dB typ. (Wide/middle/narrow) UHF 73/73/63dB typ. (Wide/middle/narrow)

 Spurious response : 70dB Intermodulation : 67dB typ. • Hum and noise ratio (with CCITT filter):

> VHF 55/53/50dB typ. (Wide/middle/narrow) UHF 45/44/40dB typ. (Wide/middle/narrow)

• Audio output power : 500mW tvp.

(at 5% distortion with an 8Ω load)

• External speaker connector: 2-conductor 3.5 (d) mm $/8\Omega$

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.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	II	506.2	II	506.3	II	506.4	III
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	-
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.4	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV



URL: http://www.icom.co.jp/world/index.html

ICOM Inc. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

Icom America Inc.

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

Zac de la Plaine, 1, Rue Brindejonc des Moulinais BP 5804.

Icom France S.a

31505 Toulouse Cedex, France

E-mail: icom@icom-france.com : http://www.icom-france.com

Phone: +33 (5) 61 36 03 03 Fax: +33 (5) 61 36 03 00

Asia Icom Inc. For 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.

1305, Wanshang Plaza, Shijingshan Road.

1305, Wanshang Plaza, Shijing Beijing, China Phone: +86 (010) 6866 6337 Fax :+86 (010) 6866 3553 E-mail: bjicom@bjicom.com URL : http://www.bjicom.com

on SGS

SGS

Your local distributor/dealer:

Count on us!

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 -mail:info@icomcanada.com RL: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
E-mail : sales@icom.net.au
URL : http://www.icom.net.au

Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand 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@icomeurope.com
URL : http://www.icomeurope.com

Icom Spain S.L.

Crta. de Gracia a Manresa Km. 14,750 08190 Sant Cugat del Valles Barcelona, \$ Phone : +34 (93) 590 26 70 Fax : +34 (93) 589 04 46

E-mail: icom@icomspain.com
URL: http://www.icomspain.com

Icom Polska

Sopot, 3 maja 54, Poland Phone : +48 (58) 550 7135 Fax : +48 (58) 551 0484 E-mail : icompolska@icompolska.com.pl

: http://www.icompolska.com.p