



C-F30GT (VHF transceiver with keypad)

C-F30GS IC-F40GS

(VHF transceiver without keypad)

(UHF transceiver without keypad)

IC-F40GT (UHF transceiver with keypad)



IcomIC-F40GT IcomIC-F40G9 P₁ P₂ P₃ P₁ P₂ P₃ 6 9

Leading busin

If you want a durable, versatile, reliable and easy-to-operate portable communications tool, the IC-F30G & IC-F40G series is designed for you. This series is designed for commercial communication or professional use with a host of built-in features, such as multiple tone-signalings. Flash-ROM, high speed PLL*1, Compander function and more. Not only for conventional operation, but also compatible with Trunking systems*2, this series is particularly useful for organizations that have large communications fleets. Icom's technologies guarantee to satisfy your needs.

*1 Except IC-F30GT-L/F30GS-L. *2 Optional unit is required.



VHF transceiver with keypad

VHF transceiver without keypad

-F30GS

UHF transceiver with keypad

IC-F40GT

UHF transceiver without keypad

⁻-F40GS

BP-209N Ni-Cd BP-210N Ni-MH BP-211N Li-lon BP-208N 7.2V/1100mAh 7.2V/1650mAh BP-222N Ni-Cd BP-210N-FM Ni-MH 7 2V/1650mAh (Intrinsically safe)









▲ IC-F40GT



BATTERY I		BP-208N	BP-209N	BP-210N BP-210N-FM	BP-211N	BP-222N
Output	VHF	1W (typ.)	5W (typ.)	5W (typ.)	5W (typ.)	5W (typ.)
Power	UHF	1W (typ.)	4W (typ.)	4W (typ.)	4W (typ.)	4W (typ.)
Battery Life	•	-	6.5hours	10hours	12hours	3.5hours

Approx. output power and battery life (Tx (Hi): Rx: standby=5:5:90)

BATTERY CHARGER BC-146 +BC-147A/E



BC-146 DESKTOP CHARGER + BC-147A/E AC ADAPTER Charges the battery pack, BP-209N, BP-210N/FM or BP-222N with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. An AC adapter, BC-147, is additionally required.



BC-144N DESKTOP CHARGER + BC-145 AC ADAPTER

▲ IC-F40GS

BC-144M DESKTOP CHARGER + BC-145 AC ADAPTER
For rapid charging of battery pack, BP-2209N, BP-210N/FM or BP-222N. An AC adapter,
BC-145, is supplied with the charger depending on version. Charging time: 1.5 to 2 hours.
Cannot charge Li-lon battery pack, BP-211N.
BC-119N+AD-101+BC-145 rapidly charges BP-211N as well as other battery packs.
BC-121N MULTI-CHARGER + AD-101 CHARGER ADAPTER + BC-157 AC ADAPTER
For rapid charging of up to 6 battery packs (Six AD-101s are required), BP-219N,
BP-210N/FM, BP-211N or BP-222N. An AC adapter, BC-157, may be supplied, depending on version. Charging fire: 15 to 2 hours.

on version. Charging time: 1.5 to 2 hours.

OPC-656 DC POWER CABLE For use the BC-121N with a DC power supply (12–20V DC).

SPEAKER-MICROPHONES

HM-131SC: Compact and durable body EM-80 :Durable, full-sized microphon :Slim dimensions. Equipped

ess communication into the 21st Century

Full built-in tone-signalings

All tone-signalings are built-in such as CTCSS, DTCS, 2-tone/5-tone and DTMF encode/decode, so you don't need to install an optional tone-signaling board. And a wide variety of selective calling systems are available to call specific station(s) or control a repeater. In addition, ANI (Automatic Number Indication) function is available with 2-tone/5-tone and DTMF.

Largest LCD in its class

With the large LCD, a simple sentence of up to 24 full-dot matrix characters provides more smooth communication than previous one word indication. Operational icons, such as antenna (S-meter) or battery life. show various operating status at a glance. Further more, original characters can be made and indicated on the LCD.



8×20 dot character can be made on a PC and plural characters can be combined on the LCD.

Durable construction

The body is compact, yet the polycarbonate panel and one-piece aluminum chassis provides durable construction to have been tested to the MIL STD specifications. You can count on the unit to operate in challenging environments.

BIIS 1200 compatible

The following selective calling and data message features are available with the BIIS* version.

- 7 Group IDs • 32 abbr. memories
- 12-character SDM (Short Data Message)
- 24-status messages RS-232C interface
- · Position data transmission with a GPS
- * Except IC-F30GT-L/F30GS-L.

Up to 8 dealer-programmable key assignments

The following functions can be programmed in conventional mode or SmarTrunk mode.

- Channel up/down Bank up Call Beep
- Scan A/B start/stop
 Scan Tag add/delete
- Priority A/B Key lock Monitor Scrambler
- C. Tone CH enter MR-CH 1/2/3/4 High/Low • Talk around • ID-MR select • Null (Light)
- Trunking group SW Tx code enter Re-dial
- Tx code CH select Emergency single/repeat
- DTMF autodial Turbo SpeeDial A/B/C/D Special function 1/2 • OPT 1/2/3 momentary
- Compand Wide/Narrow Digital button

Advanced PC programming for Microsoft® Windows® 95/98

256 memory Channels

Up to 256 memory Channels with 12 character channel names can be stored with up to 16 banks. The rotary selector allows you to select each bank or memory Channel.

Simultaneously work 2 optional internal units

2 optional units can be installed and will work simultaneously. You can select optional units to suit your needs and to provide versatile usage.

Combination of available internal units

	With	Option Slot 2			
	BIIS	UT-109 Voice	UT-110 Voice Scrambler	UT-113 Man	
Option Slot 1	channel	Scrambler Unit	Unit	Down Unit	
UT-105*¹ SmarTrunk II™ Board	_ *2	V	~	✓ *3	
UT-111*1 LTR® Trunking Board	_ *2	~	~	✓ *3	
UT-109 Voice Scrambler Unit	~		_ *4	~	
UT-110 Voice Scrambler Unit	~	_ *4		~	
UT-113 Man Down Unit	~	~	~		

- Available simultaneously
- Not available
- *1 UT-105 and the UT-111 have to be installed in slot 1.
- *2 Trunking channels have to be set in a separate bank from a BIIS channel bank.
- *3 UT-113 is available in conventional (includes BIIS channel) mode.
- *4 UT-109 and UT-110 can not be installed simultane-

Low band VHF (66-88MHz) version Optional antenna (FA-SC12L/13L) is required.

Intrinsically safe version approved by Factory Mutual Research Corp.

Built-in Compander function

Built-in Compander function provides clear audio quality under noisy environments.

* Receiving party must have same function.

Smart design with easy operation The rounded, compact* design fits comfortably in your palm, and is easy to carry around. The large keypad makes one-hand operation easy.

* Size (W×H×D): 54×139×38mm; 21/8×515/32×11/2 in

Multi connector for accessories

The 9-pin multi connector, which use the spring action for close contact, allows you reliable operation with accessories, such as a speaker-microphone or earphone.



Other features

- The red key on the top panel can be an emergency trigger
- · Normal and priority scan functions
- Time out timer capability
- · Narrow/wide multi-band width and 2-step power save are supported
- · Talk around function changes duplex channel to simplex
- VOX capability and more...



HS-94: Earhook headset with flexible boom microphone

HS-95: Behind-the-head headset with flexible boom microphone. HS-97: Throat microphone that fits comfortably around your neck.

VS-1SC: PTT/VOX unit. Required when using these headsets with the transceiver.



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	ANTENNAS	Freq. Range	Ring Color
1	FA-SC56VS	146-162MHz	Red
2	FA-SC57VS	160-174MHz	Green
3	FA-SC73US	450-490MHz	Red
4	FA-SC12L	66-76MHz	White
(5)	FA-SC13L	76-88MHz	Red

ANTENNAS (Standard type) FA-SC25V for 136–155MHz FA-SC55V for 146–174MHz FA-SC25U for 400–430MHz

FA-SC57U for 440-470MHz FA-SC72U for 470-520MHz ANTENNA ADAPTER CONNECTOR

AD-98FSC: BNC-type antenna connector. (For maintenance use only) BELT CLIPS

MB-103: Alligator type clip. Same as supplied.
MB-86: Swivel belt clip.

LEATHER BELT HANGERS

MB-96N: Swivel type belt hanger.
MB-96F: Fixed type belt hanger. For use with MB-103.

EARPHONE

SP-13 EARPHONE +AD-52 EARPHONE ADAPTER

INTERFACE CABLE
OPC-966: RS-232C interface cable for connecting with a PC.

UT-105: SmarTrunk IITM BOARD: Provides SmarTrunk IITM capabilities.
UT-109: VOICE SCRAMBLER UNIT:
Provides operating security. Up to 32 scrambling codes are available.
The scrambling system is not compatible with the UT-110.
UT-110: VOICE SCRAMBLER UNIT:

Up to 1020 (255 codes × 4 groups) scrambling codes are available. The scrambling system is not compatible with the UT-109.
UT-111: LTR* TRUNKING BOARD: Provides LTR* trunking capabilities.
UT-113: MAN DOWN UNIT: Automatically sends an emergency signal when the transceiver is left in horizontal position.



SPECIFICATIONS

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	GENERAL				
 Frequency range 	:				
IC-F30GT-L/GS-L	66- 88MHz				
IC-F30GT/GS	136-174MHz				
IC-F40GT/GS	400-430MHz	440-480MHz			
	450-490MHz (U.S.A.)	480-512MHz (U.S.A.)			
	480-520MHz (others)				
 Number of Channels 	: Max. 256 Ch/ 16 banks	3			
 Channel spacing 	:				
IC-F30GT-L/GS-L	25kHz/12.5kHz				
IC-F30GT/GS	25/30kHz/12.5/15kHz				
	20kHz/12.5kHz				
IC-F40GT/GS	25kHz/12.5kHz				
	20kHz/12.5kHz				
 Antenna impedance 	: 50Ω				
Frequency error	: ±2.5ppm (EIA), ±1.5kHz (ETS)				
IC-F30GT-L/GS-L	±10ppm (EIA), ±1.0kHz	±10ppm (EIA), ±1.0kHz (ETS)			
 PLL channel step* 	: 2.5kHz, 3.125kHz, 5kH	: 2.5kHz, 3.125kHz, 5kHz, 6.25kHz, 7.5kHz			
IC-F30GT-L/GS-L	5kHz, 6.25kHz (*	Depending on version)			

	• Current drain (at 7.2V	′ !	DC;	approx):
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• Power supply requirement

		IC-F30GT-L/GS-L IC-F30GT/GS		IC-F40GT/GS	
Transmit	High	1.8A typ.	1.7A typ.	1.7A typ.	
Dessive	AF max.	300mA	300mA	300mA	
Receive	stand-by	90mA	95mA	95mA	

: 7.2V DC (Icom battery pack)

· Operating temp. range : -30°C to +60°C; -22°F to +140°F (EIA)

-25°C to +55°C (ETS) : 54(W)×139(H)×38(D)mm Dimensions $2\frac{1}{8}(W)\times 5\frac{15}{32}(H)\times 1\frac{1}{2}(D)$ in (projections not included)

 Weight (with BP-210) : 420q; 14.8 oz

	RECEIVER			
Sensitivity	: 0.25µV typ. (at 12dB SINAD)			
	0.63µV typ. (at 20dB SINAD; emf)			
 Squelch sensitivity 	: 0.25µV (at threshold)			
 Adjacent Ch. selectivity 	: 63dB typ. (ETS; 12.5kHz)			
	73dB typ. (ETS; 25kHz)			
 Spurious response 	: 70dB (EIA, ETS)			
 Intermodulation 	: 74dB typ. (EIA)			
	70dB typ. (ETS)			
 Hum and noise ratio 	: 40dB/43dB typ. (EIA; 12.5kHz/25/20kHz)			
	43dB/45dB typ. (ETS; 12.5kHz/25/20kHz)			
IC-F30GT-L/GS-L	48dB/54dB typ. (EIA; 12.5kHz/25kHz)			
	50dB/55dB typ. (ETS; 12.5kHz/25kHz)			
 Audio output power 	: 0.5W typ. at 5% distortion with an 8Ω load			
External SP connector	9-pin multi connector/ 8Q			

Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810C		MIL 810D		MIL 810E	
Statiuaru	Method	Procedure	Method	Procedure	Method	Procedure
Low Pressure	500.1	I	500.2	I, II	500.3	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I
Solar Radiation	505.1	I	505.2	I	505.3	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III
Salt Fog	509.1	I	509.2	I	509.3	I
Dust	510.1	I	510.2	I	510.3	I
Vibration	514.2	VIII, X	514.3	I	514.4	I
Shock	516.2	I, II, IV	516.3	I, IV	516.4	I, IV

TRANSMITTER : Variable reactance frequency modulation Modulation system : 5.0W (IC-F30GT-L/GS-L) Output power (nominal) 5.0W (IC-F30GT/GS) 4.0W (IC-F40GT/GS) · Max. freq. deviation : ± 2.5kHz, ± 5kHz, ± 4kHz Modulation limiting : 60-100% · Audio harmonic distortion : 3% typ. (1 kHz/40% dev.) -73dB (FIA) Spurious emissions Less than 0.25µW (ETS) · Adjacent Ch. power : 60dB (ETS; 12.5 kHz) 70dB (ETS; 25/20 kHz) Residual modulation : 43dB/45 dB typ. (ETS; 12.5kHz/25/20kHz) IC-F30GT-L/GS-L 50dB/50 dB typ. (ETS; 12.5kHz/25kHz) • External MIC connector : 9-pin multi connector/ 2.2kΩ

INTRINSICALLY SAFE TYPE APPROVAL



There are versions that conform to intrinsically safe rating of the FMRC (Factory Mutual Research Corporation). Ask your dealer for details.

Intrinsically safe Class I, II and III, Division 1, Groups C, D, E, F, and G; Nonincendive Class I, Division 2, Groups A, B, C and D hazardous locations when used with Icom BP-210N-FM battery pack "Max. Temp. T3C at 60°C"

Supplied accessories:	Antenna*
	▲ VHF antenna
	▲ UHF antenna
W OO O	
Belt clip	Battery pack, BP-210N
* May differ according to version	

differ according to vers Not supplied for the IC-F30GT-L/GS-L

Measurements made in accordance with EIA-152C/204D, TIA-603 or ETS 300-086. All stated specifications are typical and subject to change without notice or obligation.

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

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