



IC-F31GT (VHF transceiver with keypad)

IC-F31GS

(VHF transceiver without keypad)

UHF transceiver with keypad)

IC-F41GS

(UHF transceiver without keypad)

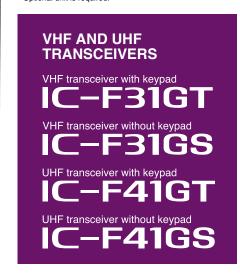


Po P1 P2 P3 Po P1 P2 P3 1 2 3 * 0

The answer to 21st Century business communication is here!

If you want a durable, versatile, reliable and easyto-operate portable communications tool, the IC-F31G & IC-F41G series is efficient 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, Compander function and more. Not only for conventional operation, but also compatible with Trunking systems*, this series is useful for small systems to large wide networks. Icom's technologies guarantee to satisfy your needs.

* Optional unit is required.



Full built-in tone-signalings

All tone-signalings are builtin 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. What is more, original characters can be made and indicated on the



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

Durable construction

The body is compact, yet the polycarbonate panel and one-piece aluminum chassis provides durable construction to meet MIL STD grade C, D and E for shock and vibration. You can count on the unit to operate in challenging environments.

Flash ROM for system upgrades

Flash ROM is adapted as the main CPU. which allows system customize and future compatibility with other protocol. A newly designed ultra high speed PLL, with a Fractional-N system, offers faster acquisition times for efficient trunking use.

Up to 8 dealer-programmable key assignments

The following functions can be programmed.

- 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)
- Tx code enter Re-dial Wide/Narrow
- Tx code CH select Emergency single/repeat
- DTMF autodial Special function 1/2
- OPT 1/2/3 momentary Compand

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 chan-

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

Option slot 2 Option slot 1	UT-109 Voice Scrambler Unit	UT-110 Voice Scrambler Unit	UT-113 Man Down Unit
UT-109 Voice Scrambler Unit			~
UT-110 Voice Scrambler Unit			~
UT-113 Man Down Unit	~	·	
UT-105 (②) SmarTrunk II™ Logic Board	~	~	1
UT-111 (②) LTR® Trunking Board	~	~	1

✔ Available simultaneously

- 1) UT-113 is available in conventional mode. 2 UT-105 and the UT-111 have to be installed in slot 1.
- * Same optional types, such as UT-109 and UT-110, can not be installed simultaneously.

Prolonged Ni-MH battery

The Ni-MH battery is designed for 10 hours operation. A battery case is optionally available for using a set of alkaline batteries (six AA (R6) cells) during charg-

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 opera-

The rounded, compact* design fits comfortably in your palm, and is easy to carry around. The large keypad makes onehand operation easy.

* Size: 54(W)×139(H)×38(D) mm

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 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 2step power save are supported
- Talk around function changes duplex channels to simplex channel

FA-SC25V

VHF ANTENNA FOR 136–155 MHz FA-SC55V

VOX capability and more...

OPTIONS



▲ IC-F41GT

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

DATTEDY DAGE	OUTPUT POWER		DATTEDY LIFE (
BATTERY PACK	IC-F31GT/GS	IC-F41GT/GS	BATTERY LIFE (approx.)	
BP-208	1 W typ.	1 W typ.		
BP-209	5 W typ.	4 W typ.	6.5 hours	
BP-210	5 W typ.	4 W typ.	10 hours	



▲ IC-F41GS

BC-137 (#02) BATTERY CHARGER + BC-122 AC ADAPTOR
Regularly charges a battery pack,
BP-209 or BP-210, with/without transceiver. The AC adaptor, BC-122, is ad-



BC-119 DESKTOP CHARGER + AD-94 (#02) CHARGER ADAPTOR For rapid charging of battery pack, BP-209 or BP-210. An AC adaptor is supplied with the charger. Charging time: 1.5 to 2 hours

BC-121 MULTI-CHARGER + AD-94 (#02) CHARGER ADAPTOR + BC-124 AC ADAPTOR

For rapid charging of up to 6 battery packs (six AD-94s are required.), BP-209 or BP-210. The BC-124 outputs 12 V DC and has 7 A capacity for the BC-121. Charg-



MB-74 BELT CLIP Alligator type. Clips onto almost anything in a vari-MB-68 BELT CLIP Same as that supplied is



: Durable, full-sized microphone with internal Slim dimensions. Equipped with an earphone jack and a transmit indicator



JACK ADAPTOR connector to \$ 3.5 mm

	INTERNAL UNI	TS
IACK	UT-105 SmarTrunk II™ Logic Board	۷ 8 1
		4
		_

AD-52 EARPHONE

T-105 marTrunk II™ ogic Board	UT-109 VOICE SCRAMBLER UNIT	UT-110 VOICE SCRAMBLER UNIT

UT-105 : Provides SmarTrunk II™ capabilities







VHF ANTENNA FOR 146–174 MHz FA-SC25U
UHF ANTENNA FOR 400–430 MHz
FA-SC57U UHF ANTENNA FOR 470-520 MHz

Provides operating security. Up to 32 scrambling codes are available. The scrambling system is not compatible with the UT-110. UT-110 : Provides higher operating security. Up to 1020 (255 codes × 4 groups) scrambling codes are

available. The scrambling system is not compatible with the UT-109 Provides LTR® trunking capabilities. UT-113 : Automatically sends an emergency signal when the transceiver is left in horizontal position

SPECIFICATIONS

	GENERAL
 Frequency range 	:
IC-F31GT/GS	136–174 MHz
IC-F41GT/GS	400-430 MHz
	440-480 MHz
 Number of Channels 	: Max. 256 Ch/ 16 banks
 Type of emission 	: 16K0F3E (25/30 kHz)
	8K50F3E (12.5/15 kHz)
	14K0F3E (20 kHz)
 Channel spacing 	: 30/15 kHz (25/12.5 kHz)
	20/12.5 kHz
 Antenna impedance 	: 50 Ω
 Frequency error 	: ±1.5 kHz
 PLL channel step 	: 5 kHz, 6.25 kHz, 7.5 kHz
 Power supply requirement 	: 7.5 V DC (Icom battery pack)

• Current drain (at 7.5 V DC; approx):

Transmit at 5 W 1.7 A typ. (IC-F31GT/GS)

at 4 W 1.7 A typ. (IC-F41GT/GS)

Receive at AF max. 300 mA at stand-by 95 mA

• Operating temp. range : -25°C to +55°C

• Dimensions : 54(W)×139(H)×38(D) mm

(projections not included)

• Weight (with BP-210) : 420 g

	RECEI	VER
Intermediate freq.	: 1st	31.65 MHz (IC-F31GT/GS) 47.25 MHz (IC-F41GT/GS)
	2nd	450 kHz
 Sensitivity 	: 0.63 µ	V typ. (at 20 dB SINAD) e.m.f.
 Squelch sensitivity 	: 0.25 µ	V (at threshold)
 Adjacent Ch. selectivity 	: 63 dB	typ. (12.5 kHz)
	73 dB	typ. (25 kHz)
 Spurious response 	: 70 dB	
 Intermodulation 	: 70 dB	typ.
 Hum and noise ratio 		typ. (12.5 kHz) typ. (25/20 kHz)
 Audio output power 	: 0.5 W	typ. (at 5% distortion with an 8 Ω load)

• External SP connector : 9-pin multi connector/ 8 Ω

Applicable U.S. Military Specifications

Icom makes rugged products that meet MIL-STD requirements and strict environmental standards as follows.

Standard	MIL 810C		MIL 810C MIL 810D		MIL 810E	
Standard	Method	Procedure	Method	Procedure	Method	Procedure
Vibration	514.2	X	514.3	I	514.4	I
Shock	516.2	I	516.3	I	516.4	I

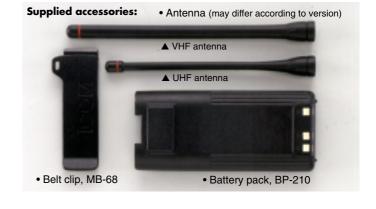
Measurements made in accordance with ETS 300-086. All stated specifications are subject to change without notice or obligation.

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SmarTrunk II is a trademark of the SmarTrunk System Corporation. LTR is a registered trademark of the EFJohnson Radio Systems.

	TRANSMITTER
Modulation system	: Variable reactance frequency modu- lation
 Output power 	: 5.0 W (IC-F31GT/GS)
(nominal)	4.0 W (IC-F41GT/GS)
 Max. freq. deviation 	: ± 2.5 kHz, ± 5 kHz, ± 4 kHz
 Modulation limiting 	: 60–100%
 Audio harmonic distortion 	on: 3% typ. (1 kHz/40% dev.)
 Spurious emissions 	: Less than 0.25 μW
 Adjacent Ch. power 	: 60 dB (12.5 kHz)
	70 dB (25/20 kHz)
 Residual modulation 	: 43 dB typ. (12.5 kHz)
 Residual modulation 	: 43 dB typ. (12.5 kHz)

45 dB typ. (25/20 kHz) • External MIC connector : 9-pin multi connector/ 2.2 kΩ



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