



VHF AND UHF TRANSCEIVERS

IC-F3GT

(VHF transceiver with keypad)

IC-F4GT

(UHF transceiver with keypad)

IC-F3GS

(VHF transceiver without keypad)

IC-F4GS

(UHF transceiver without keypad)



Meets
MIL-STD 810



Icom Inc.

Supports demanding communication with simple operation

DURABILITY, DEPENDABILITY, OPERATION SIMPLICITY, STYLE, RUGGEDNESS, ECONOMICAL USE, AND MORE ARE REQUIRED FOR COMMERCIAL TRANSCEIVERS. BUT ONLY A FEW SUCH TRANSCEIVERS ARE AVAILABLE, PARTICULARLY FOR PORTABLES. NOW FROM ICOM— THE IC-F3G SERIES OF PORTABLE TRANSCEIVERS AIM TO BECOME THE MOST HIGHLY REPUTABLE OF ALL COMMERCIALS. SUPERIOR PERFORMANCE AND FEATURES, EVERYTHING YOU REQUIRE IS INCLUDED. ICOM'S TECHNOLOGY GIVE YOU SATISFACTION YOU NEVER KNEW BEFORE.

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IC-F3GT
VHF transceiver with keypad

IC-F3GS
VHF transceiver without keypad

IC-F4GT
UHF transceiver with keypad

IC-F4GS
UHF transceiver without keypad

Supports multiple signalling and flexible selective calling

CTCSS/DTCS encoder/decoder, and DTMF, 2/5-tone encoder with user programmable CTCSS, DTCS capabilities, are built-in. The optional UT-96[†] (for 2/5-tone), or UT-108[†] (for DTMF) allows decode with ANI functions. In addition, special tone code, for group, and individual calls, and more features are available to support flexible, perfect selective calling operations.

- 7-digit code can be used as the 5-tone
- Direct individual station/group call with/without own ID transmission, or through repeater
- Selectable 5-tone format includes user tone format programming capability (Encode and Decode frequencies, Tone period, No-tone timer, and Tone length)
- Text or ID number indication
- Desired 5-tone code entering for both individual and group call
- Transceiver remote control—stun, kill, and scan start/stop functions
- Selectable comparing digit code for decoding
- Selective calling capability from a public telephone (UT-108 DTMF DECODER is required; base/repeater station must be connected to the public telephone network)

Man down function*

Automatically sending an emergency signal when the transceiver is left in the horizontal position for a pre-set time.
*Optional UT-113[†] is required.

Trunking capabilities*

Compatible with the SmarTrunk II™, or the LTR® trunking systems.
*Optional UT-105[†] for SmarTrunk II™, UT-111[†] for LTR® trunking is required.

Operation security

Optional voice scrambler units, UT-109[†] and UT-110[†], for secure communications are available.

Programmable key assign

Up to 8 programmable keys are available to assign specific functions. In particular, the red key can be used for important function, such as emergency call, etc.

Latest PC programming package

For Microsoft® Windows® 95/98.



MIL spec. durability

54(W)×132(H)×35(D) mm* compact body with durable, dependable construction, meets the MIL standard.

*2 1/8(W)×5 3/16(H)×1 7/16(D) in



Simple operation

Enlarged 7-character alphanumeric automatic backlit LCD, and function keys make for easier operation.

Long life batteries

The standard Ni-Cd battery pack, allows 8 hours* operation. Optional battery pack for extended operation, and a battery case for use while charging the battery, or for emergency operation, etc., are available.
*approx.; Tx:Rx:Standby ratio = 5:5:90

Other features

- 40 memory channels
- Powerful 5 W output for IC-F3GT/GS, 4 W output for IC-F4GT/GS
- Selectable channel attribute from emergency, priority A/B, and normal
- Normal and priority scans
- Auto LCD contrast
- 2 step power saver
- 5 autodialing memories for DTMF
- Busy, repeater lockout functions
- Power ON password
- Mic. remote control with optional HM-75A, and more...

[†]only one of either unit can be installed.

OPTIONS

BATTERY PACKS AND CASE		
BP-208 AA (R6) batteries × 6	BP-209 Ni-Cd 7.2 V/1100 mAh	BP-210 Ni-MH 7.2 V/1650 mAh

BATTERY PACK	OUTPUT POWER		BATTERY LIFE (approx.)
	IC-F3GT/GS	IC-F4GT/GS	
BP-208	1 W typ.	1 W typ.	—
BP-209	5 W typ.	4 W typ.	8 hours
BP-210	5 W typ.	4 W typ.	11 hours

Approx. output power and operating times (Tx (Hi): Rx (Hi): standby=5:5:90)

SPEAKER-MICROPHONES	
HM-46L	HM-75A

HM-46L : Slim dimensions. Equipped with an earphone jack and a transmit indicator.
HM-75A : Allows you remote control capabilities. The [▼], [▲], [A] and [B] switches, act as the [▼], [▲], [Po] and [P1] switches of the transceiver, respectively.



BC-119 DESKTOP CHARGER + AD-94 CHARGER ADAPTER
For rapid charging of battery pack, BP-209 or BP-210. An AC adapter is supplied with the charger. Charging time: 1.5 to 2 hours
BC-121 MULTI-CHARGER + AD-94 CHARGER ADAPTER + BC-124 AC ADAPTER
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. Charging time: 1.5 to 2 hours.



Regularly charges a battery pack, BP-209 or BP-210, with/without transceiver. The AC adapter, BC-122, is additionally required.



HS-51 HEADSET
For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.

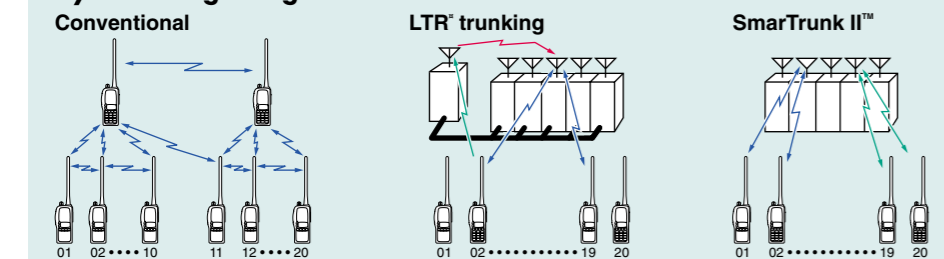


MB-74 BELT CLIP
Alligator type. Clips almost anything in a variety of convenient places. MB-68 (same as that supplied) is also optionally available.



SP-13 EARPHONE
Provides clear audio in noisy environment.

System image diagram



INTERNAL UNITS						
 UT-96 5-TONE UNIT	 UT-105 SmarTrunk II™ Logic Board	 UT-108 DTMF DECODER	 UT-109 VOICE SCRAMBLER UNIT	 UT-110 VOICE SCRAMBLER UNIT	 UT-111 TRUNKING UNIT	 UT-113 MAN DOWN UNIT

UT-96 : Provides either the 2/5-tone encode/decode and ANI capabilities.
UT-105 : Provides SmarTrunk II™ capabilities. SmarTrunk is a trademark of SmarTrunk System Inc.
UT-108 : Provides DTMF decode and ANI capabilities.
UT-109 : Provides operating security. Up to 32 scrambling codes are available. The scrambling system is not compatible with the UT-110, therefore, cannot operate with the scrambled signals by 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, therefore, cannot operate with the scrambled signals by UT-109.
UT-111 : Provides LTR® trunking capabilities.
UT-113 : Allows man down function

SPECIFICATIONS

GENERAL

- Frequency range :
 - IC-F3GT/GS 136–150 MHz 146–174 MHz
 - IC-F4GT/GS 400–430 MHz 440–470 MHz
 - 470–500 MHz
 - 490–512 MHz (USA)
 - 490–520 MHz (others)
- Number of channel : Total 40
- Type of emission : 16K0F3E (25 kHz; not available in the U.S.A.)
8K50F3E (12.5 kHz)
14K0F3E (20 kHz)
- Antenna impedance : 50 Ω
- Frequency error : ±0.0005% (EIA; IC-F3GT)
±0.00025% (EIA; IC-F4GT)
±1.5 kHz (ETS; 12.5 kHz)
±2 kHz (ETS; 25/20 kHz)
- PLL channel step : 5 kHz, 6.25 kHz, 7.5 kHz
- Power supply requirement : 7.2 V DC (Icom battery pack)
- Current drain (at 7.2 V DC) :
 - Transmit at 5 W 1.6 A (IC-F3GT/GS)
 - at 4 W 1.55 A (IC-F4GT/GS)
 - at 1 W 0.7 A (IC-F3GT/GS)
 - 0.8 A (IC-F4GT/GS)
 - Receive at AF max. 250 mA
 - at stand-by 70 mA
- Operating temp. range : -30°C to +60°C; -22°F to +140°F (EIA)
-25°C to +55°C (ETS)
- Dimensions : 54(W)×132(H)×35(D) mm
(projections not included) 2½(W)×5⅜(H)×1⅞(D) in
- Weight (with BP-209) : 370 g; 13.1 oz

TRANSMITTER

- Modulation system : Variable reactance frequency modulation
- Output power : IC-F3GT/GS 5.0 W
IC-F4GT/GS 4.0 W
- Max. freq. deviation : ±2.5 kHz, ±5 kHz, ±4 kHz
- Modulation limiting : 80–100%
- Audio harmonic distortion : 3% max. (1 kHz/40% dev.)
5% max. (1 kHz/60% dev.)
- Spurious emissions : 73 dBc (EIA)
Less than 0.25 μW (ETS)
- Adjacent ch. power : 60 dB (EIA)
60 dB (ETS; 12.5 kHz)
70 dB (ETS; 25/20 kHz)
- Residual modulation : 40 dB (EIA)
43 dB (ETS; 12.5 kHz)
45 dB (ETS; 25/20 kHz)
- External MIC connector : 3-conductor 2.5 (d) mm (1/10")/2.2 kΩ

RECEIVER

- Intermediate freq. : 1st 31.05 MHz (IC-F3GT/GS)
46.35 MHz (IC-F4GT/GS)
2nd 450 kHz
- Sensitivity :
 - IC-F3GT/GS 0.25 μV (at 12 dB SINAD)
0.63 μV (at 20 dB SINAD)
 - IC-F4GT/GS 0.3 μV (at 12 dB SINAD)
0.79 μV (at 20 dB SINAD)
- Squelch sensitivity (at threshold):
 - IC-F3GT/GS 0.25 μV
 - IC-F4GT/GS 0.3 μV
- Adjacent Ch. selectivity : 65 dB (EIA)
60 dB (ETS; 12.5 kHz)
70 dB (ETS; 25/20 kHz)
- Spurious response : 70 dB (EIA)
70 dB (ETS)
- Intermodulation : 70 dB (EIA)
65 dB (ETS)
- Hum and noise ratio : 40 dB (EIA)
43 dB (ETS; 12.5 kHz)
45 dB (ETS; 25/20 kHz)
- Audio output power : 0.5 W at 5% distortion with an 8 Ω load
- External SP connector : 2-conductor 3.5 (d) mm (1/8")/8 Ω

Applicable U.S. Military Specifications

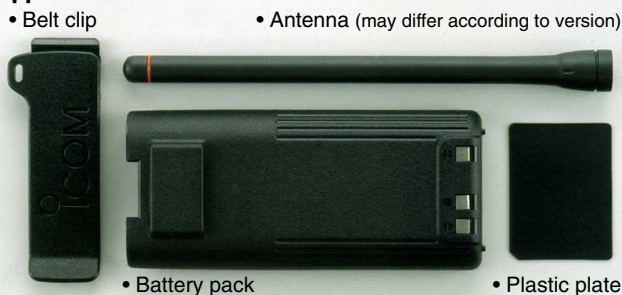
Icom makes rugged products that meet MIL-STD requirements and strict environmental standards as follows.

Standard	MIL 810C		MIL 810D		MIL 810E	
	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 EIA/TIA-152C/204D, or ETS 300-086. All stated specifications are typical and subject to change without notice or obligation.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the U.S.A. and other countries. SmarTrunk II is a trademark of the SmarTrunk System Corporation. LTR is a registered trademark of the EFJohnson Radio Systems.

Supplied accessories:



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