

ICOM

VHF AND UHF TRANSCEIVERS

IC-F3 VHF TRANSCEIVER

IC-F4 UHF TRANSCEIVER



Portable communication that works the way you do

● **SmarTrunk II™ capability***

The IC-F3 or IC-F4 is compatible with the the SmarTrunk II™ trunking system when an optional UT-105 is installed. This cost effective trunking system provides telephone interconnect, unit-to-unit calling and several levels of priority. In addition, conventional mode is available for operation in out-of-service areas. *Depending on version.

● **Supports numerous signaling systems**

CTCSS, DTCS encode/decode and DTMF are standard, and either 2-tone decode or 5-tone encode/decode is optionally available to meet a wide variety of signaling requirements.

● **Rugged construction**

Durable design features a one-piece polycarbonate front panel, aluminum die-cast frame and screw-type antenna. These radios are built tough to withstand demanding environments.

● **Dealer-programmable assign function**

Up to 10 keys can be assigned functions, providing customized operation to suit your individual needs.

● **And more...**

- Advanced programming capabilities via an IBM® PC
- Selectable LCD backlight condition: off, auto or continuously on
- Long life battery pack
- 2-step power save function
- Time-out timer
- Password function
- Selectable 5-tone format
- 6 character alpha display



▲ IC-F3

▲ IC-F4

Icom Inc.

SPECIFICATIONS

GENERAL

•Frequency coverage* (MHz)		
IC-F3	:	136.000–150.000 146.000–174.000
IC-F4	:	400.000–430.000 440.000–470.000
*Varies according to version.		
•Mode		
	:	16K0F3E (25 kHz type) 8K50F3E (12.5 kHz type)
•Number of channels*		
	:	16 or 32 (16 ch × 2 banks) *Depending on version.
•Power supply requirement		
	:	9.6 V DC (negative ground)
•Current drain		
Tx	High power	2.0 A
	Low power	1.0 A
Rx	Rated audio	300 mA
	Standby	80 mA
•Frequency stability		
	:	±0.0005% (EIA) ±1500 Hz (ETS/CEPT)

•Dimensions	:	57(W) × 140(H) × 37(D) (proj. not included; mm/in)
•Weight (w/ant. and battery)	:	2 1/4(W) × 5 1/2(H) × 1 1/2(D) 390 g (13.8 oz)

TRANSMITTER

•Output power (at 9.6 V DC)	
IC-F3	: 5 W or 1 W
IC-F4	: 4 W or 1 W
•Modulation system	
	: Variable reactance frequency modulation
•Max. frequency deviation	
	: ±5.0 kHz (25 kHz type) ±2.5 kHz (12.5 kHz type)
•Spurious emissions	
	: 70 dB typical (EIA) 0.25 µW (ETS/CEPT)
•Adjacent channel power	
	: 70 dB (25 kHz type) 60 dB (12.5 kHz type)
•External mic. connector	
	: 3-conductor 2.5 (ø) mm (1/8")/2 kΩ

Measurements made in accordance with EIA/TIA-152-C, 204D, 603 or ETS-300-086 or CEPT T/R 24.

RECEIVER

•Receive system	:	Double-conversion superheterodyne
•Intermed. freq. (F3/F4)		
1st	:	31.05/46.35 MHz
2nd	:	450 kHz
•Sensitivity (typ.; F3/F4)		
	:	for 12 dB SINAD 0.25/0.3 µV
	:	EMF; for 20 dB SINAD 0.63/0.79 µV
•Squelch sensitivity (typ.; F3/F4): 0.25/0.3 µV (at threshold)		
•Adjacent channel selectivity		
	:	70 dB (25 kHz type) 60 dB (12.5 kHz type)
•Spurious response rejection		
	:	70 dB
•Intermodulation rejection		
	:	65 dB
•Audio output power		
	:	300 mW (typical at 5% distortion with an 8 Ω load) (at 9.6 V DC)
•External speaker connector		
	:	3-conductor 3.5 (ø) mm (1/8")/8 Ω

All stated specifications are subject to change without notice or obligation.

OPTIONS

BC-110A/D/V WALL CHARGER

Regularly charges the connected battery pack.

BC-119 DESKTOP CHARGER + AD-81 CHARGER ADAPTER

For rapid charging of battery packs. An AC adapter is supplied with the charger. Charging time: 1 to 1.5 hrs.

BC-121 MULTI-CHARGER + AD-81 CHARGER ADAPTER

For rapid charging up to 6 battery packs simultaneously. An AC adapter may be supplied depending on version. Six AD-81's are necessary. Charging time: 1 to 1.5 hrs.

BP-194 BATTERY CASE

Battery case for AA(R6) × 8 batteries.

BP-195/BP-196 BATTERY PACKS

BP-195: 9.6 V/700 mAh; BP-196: 9.6 V/1050 mAh

HM-46 SPEAKER-MICROPHONE

Slim dimensions. Equipped with an earphone jack and a transmit indicator.

HM-54 SPEAKER-MICROPHONE

For operation while conveniently hanging the transceiver from your belt, etc.

HM-75A SPEAKER-MICROPHONE

Allows you to remotely select operating channels, etc.

HS-51 HEADSET

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

OPC-254L DC POWER CABLE

Allows you to charge a battery pack connected to the transceiver via a DC power source (13.5 to 18 V DC). For charging ONLY—the transceiver cannot be simultaneously operated.

SP-13 EARPHONE

Provides clear audio in noisy environments.

UT-80 2-TONE UNIT

Provides the transceiver with 2-tone decode capability.

UT-96 5-TONE UNIT

Provides the transceiver with 5-tone encode/decode capability or 2-tone decode capability via PC programming.

UT-105 SmarTrunk II™ Logic Board

Provides SmarTrunk II™ capabilities.



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Icom Inc. 6-9-16, Kamihigashi, Hirano-ku, Osaka 547, Japan Phone: 06 793 5302 Fax: 06 793 0013

Count on us!

Icom America Inc.

Corporate Headquarters
2380 119th Avenue N.E., Bellevue, WA 98004, U.S.A.
Phone: (206) 454-8155 Fax: (206) 454-1509
Telex: 152210 ICOM AMER BVUE

Customer Service
Phone: (206) 454-7619

Icom Canada

A Division of Icom America Inc.
3071 45 Road, Unit 9, Richmond, B.C., V6X 2T4, Canada
Phone: (604) 273-7400 Fax: (604) 273-1900

Icom (Europe) GmbH

Communication Equipment
Himmelsteiger Str. 100, D-40225 Düsseldorf, Germany
Phone: 0211 346047 Fax: 0211 333639

Icom (Australia) Pty. Ltd.

A.C.N. 006 092 575
250-294 Albert Street, Brunswick, Victoria, 3056, Australia
Phone: 03 9387 0666 Fax: 03 9387 0022

Icom (UK) Ltd.

Unit 9, Sea St, Herne Bay, Kent, CT8 8LD, U.K.
Phone: 01227 741741 Fax: 01227 741742
Telex: 317210 BUREAU G

Icom France S.a

Zac de la Plaine, Rue Brindejonc des Moulins
BP 5804, 31505 Toulouse Cedex, France
Phone: 561 36 03 03 Fax: 561 36 03 00
Telex: 521515 ICOM FRA

Your local distributor/dealer:

Point electronics

A- 1060 Wien, Stumpergasse 41 - 43

Tel.: +43/ 1/ 597 08 80/0 FAX: DW 40

www.point.at mail@point.at