


ICOM

VHF AND UHF TRANSCEIVERS

IC-F520

(25W VHF transceiver)

IC-F521

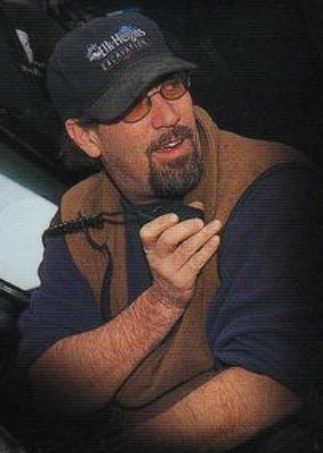
(50W VHF transceiver)

IC-F620

(25W UHF transceiver)

IC-F621

(45W UHF transceiver)



Icom Inc.

SPECIFICATIONS

GENERAL

- Frequency range :
IC-F520/F521 : 136–174MHz
IC-F620/F621 : 400–430MHz 440–490MHz
480–512MHz
- Number of Channels : Max. 256 Ch/ 16 banks
- Channel spacing : 12.5/15kHz/25/30kHz
- Antenna impedance : 50Ω
- Frequency error : ±5.0ppm (VHF) ±2.5ppm (UHF)
- PLL channel step : 2.5kHz, 5 kHz and 6.25 kHz
- Power supply requirement : 13.6V DC
- Output power and current drain (approx) :

	IC-F520	IC-F521	IC-F620	IC-F621
Output power	25W	50W	25W	45W
Transmit High	7A	14A	7A	13A
Receive AF max.	1200mA	1200mA	1200mA	1200mA
stand-by	300mA	300mA	300mA	300mA

- Operating temp. range : -30°C to +60°C; -22°F to +140°F
- Dimensions : 140(W)×40(H)×170(D) mm;
(projections not included) 5½(W)×1½(H)×6½(D) in
- Weight : 1.2kg; 2lb 10oz

TRANSMITTER

- Modulation system : Variable reactance frequency modulation
- Max. frequency deviation : ± 2.5kHz (narrow) ± 5kHz (wide)
- Modulation limiting : 70–100% (VHF) 60–100% (UHF)
- Audio harmonic distortion : 3% typ. (40% deviation)
- Spurious emissions : 70dB
- Adjacent channel power : 60dB (narrow) 70dB (wide)
- FM Hum and Noise : 40dB typ. (narrow) 46dB typ. (wide)
- External MIC impedance : 600Ω (8-pin modular)

OPTIONS

HM-100TN
DTMF MICROPHONEOPC-617
ACC CABLESM-25
DESKTOP MICROPHONE

EXTERNAL SPEAKERS



SP-5

SP-10

SP-22

RECEIVER

- Sensitivity : 0.25μV typ. (at 12 dB SINAD)
- Squelch sensitivity : 0.25μV typ. (at threshold)
- Adjacent channel selectivity : 65dB typ. (narrow) 75dB typ. (wide)
- Spurious response : 70dB
- Intermodulation : 75dB typ. (wide)
- Hum and noise ratio : 40dB typ. (narrow) 45dB typ. (wide)
- Audio output power : 4W typ. at 10% distortion with a 4Ω load
- External SP connector : 2-conductor 3.5 (d) mm (1/8")/4Ω

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	I, II	506.2	I, II	506.3	I, II	506.4	I, II
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	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

Supplied Accessories

- Hand mic. (HM-100N)
- DC power cable
- Mounting bracket kit
- Fuses
- Key assign stickers

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

INTERNAL UNITS



UT-105 : Provides SmarTrunk II™ capabilities.

UT-108 : Provides DTMF decode and ANI capabilities.

UT-109 : Provides operating security. Up to 32 scrambling codes are available. (Ver. 02) 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.

UT-111 : Provides LTR® trunking capabilities.

SmarTrunk II is a trademark of the SmarTrunk Systems, Inc. LTR is a registered trademark of the E.F. Johnson Company. Microsoft and Windows are registered trademarks of Microsoft Corporation in the U.S.A. and other countries.

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Certificate Number Q14190

Icom Inc. (Japan), is an ISO9001 certification acquired company.

Your local distributor/dealer: