



VHF AND UHF TRANSCEIVERS

IC-F1010
IC-F2010



The photo shows actual size.

Rugged construction

The highly dependable diecast aluminum chassis and polycarbonate front panel are resistant to impact.

Multiple signaling systems*

5-tone encoder/decoder compatible with a wide variety of European signaling requirements including CCIR, ZVEI1, ZVEI2, DZVEI, EEA, EEA2 and EIA.

*5-tone encoder is standard; the optional UT-96 is necessary for 5-tone decode.

Detachable front panel*

A detachable front panel provides numerous mounting possibilities and is simple to install in almost any vehicle.

*RMK-1 and OPC-609 are required.

Programmable assign function

A limited number of switches (6) provides easy operation. Moreover, functions can be assigned to switches providing customization to suit specific needs.

Large, alphanumeric display

Advanced programming package for IBM® PC

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ADDITIONAL FEATURES

- Selectable channel spacing (channel independent)
- 32 channels for 5-tone encoder (standard)
- Emergency call with signal or repeat function
- 8 identities + group code for 5-tone decode (optional)
- Selectable digits for 5-tone decoded indication
- Automatic ID transmission linked to PTT
- Standard DTCS with selectable polarity
- 7 DTMF autodialing memories
- Up to 8 characters for memory name indication
- Bank separation capability
- 5 scan channel groups
- 2 priority channels
- Automatic scan start and/or receive mute release when mic is picked up
- Normal scan and priority scan
- Power ON scan start
- Adjustable transmit release period to prevent noise burst at end of transmission when using CTCSS
- Remote monitoring capability (optional UT-96 required)
- Optional passcode input to prevent operation by unauthorized persons
- Programmable minimum level for audio
- Selectable transmit power
- Talk around function (temporary simplex operation on a duplex channel)
- Time-out timer
- Time-out ID transmission
- Penalty timer
- Transmit lockout (channel busy/repeater/reverse repeater)
- 2 selectable 'stun' functions (optional UT-96 required)
- External I/O terminal socket (optional OPC-617 required)

SPECIFICATIONS

General			
Frequency coverage	IC-F1010	136-155 MHz	146-174 MHz
	IC-F2020	400-430 MHz 490-520 MHz	450-490 MHz
Mode	16K0F3E, 8K50F3E		
Number of channels	32 (standard), 160 (optional)		
Channel spacing	12.5 kHz and 25 kHz		
PLL channel step	5 kHz, 6.25 kHz and 7.5 kHz*		
Power supply requirement	13.2 V DC ±15% (neg. ground)		
Current drain (at 13.2 V DC)	At 25 W	7 A (IC-F1010)	8 A (IC-F2010)
	Squelched	700 mA	
	Max. audio output	1.2 A	
Usable temp. range	-25°C to +55°C		
Frequency stability	± 1500 MHz		
Dimensions (projections not included)	150 (W) x 50 (H) x 180 (D) mm		
Weight	1.5 kg		

Transmitter		
Output power	High	25W
	Low	2.5W
Max. freq. Deviation	± 5 kHz, 50 kHz	
Adjacent channel power	60 dB (12.5kHz)	
	70 dB (25 kHz)	
Spurious emissions	0.25 µW (max.)	
Hum and noise	50 dB typ. (IC-F1010)	
	45 dB typ. (IC-F2010)	

Receiver	
Sensitivity	0.63 µV emf (IC-F1010)
(20 dB SINAD)	0.67 µV emf (IC-F2010)
Squelch sensitivity	0.22 µV emf (IC-F1010)
(at threshold)	0.25 µV emf (IC-F2010)
Adjacent Ch. selectivity	70 dB typ. (12.5 kHz)
Intermodulation rejection	65 dB
Spurious response	80 dB (IC-F1010)
	70 dB (IC-F2010)
Hum and noise (typical)	50 dB (IC-F1010)
	45 dB (IC-F2010)
Audio output power	4 W typ. at 10% distortion with a 4 Ω load

Applicable US 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	516.2	I	514.3	I
Shock	516.3	I	514.4	I	516.4	I

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

OPTIONS

EX-1761 MEMORY EXPANSION UNIT

OPC-617 ACC CABLE

For external terminal connection.

RMK-1 SEPARATION KIT + OPC-609 SEPARATION CABLE

For front panel detachment installation (1.9 m).

SP-22 EXTERNAL SPEAKER

Compact and durable construction.

Input impedance: 4Ω; Max. input power: 5 W.

SP-10 EXTERNAL SPEAKER

Compact and easy-to-install.

Input impedance: 4Ω; Max. input power: 5 W.

UT-96 5-TONE UNIT

Provides the transceiver with 5-tone decoder capabilities.

UT-105 SmarTrunk II™ Logic Board*

Provides SmarTrunk II™ capabilities.

*SmarTrunk II™ is a trademark of SmarTrunk Systems.

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