

ICOM IC-F320 VHF/IC-F420 UHF MOBILE TRANSCEIVERS*

SPECIFICATIONS

ADDITIONAL FEATURES

- Backlit keys help night operation
- 32 channels for 5-tone encoder (optional)
- Emergency call with single and repeat function
- 8 identities + group code for 5-tone decode (optional)
- Selectable digits for 5-tone decode indication
- Automatic ID transmission linked to PTT
- 51 frequencies for CTCSS (plus 1 programmable)
- Polarity selectable for DTCS
- 7 autodialing memories for DTMF
- Up to 5 character channel display
- Bank separation capability
- 5 scan channel groups
- 2 priority channels
- Automatic scan start and/or receive mute when mic. is on hook
- Automatic priority channel selection and/or mute release when mic. is off hook
- Normal and priority scan
- Scan start at power on
- CTCSS reverse burst
- Remote monitoring capability (optional UT-96 required)
- Optional PIN code input to prevent operation by unauthorized persons
- Programmable minimum level for audio output
- Talk around function (temporary simplex operation on a duplex channel)
- Time-out transmission timer
- Penalty timer
- Busy channel lockout options
- 2 selectable 'stun' functions (optional UT-96 required)
- Compact body provides easy installation
- Advanced programming for IBM® compatible PC's

SPECIFICATIONS

GENERAL

- Frequency Coverage:

IC-F320 -- 136-155 MHz, 146-174 MHz

IC-F420 -- 400-430 MHz, 450-470 MHz OR 470-490 MHz, 490-512 MHz

- Number of channels: 32 (16 ch x 2 banks)
- Type of emission:
 - 8K0F3E (12.5 kHz/15 kHz: narrow)
 - 16K0F3E (25 kHz/30 kHz: wide)
- Frequency stability: $\pm 0.00005\%$ (5ppm)
- Operating Temperature Range: -30°C to $+60^{\circ}\text{C}$; -22°F to $+140^{\circ}\text{F}$
- Power Supply Requirement: 13.6 V DC $\pm 15\%$ (negative ground)
- Current drain (approx.):
 - Transmit
 - at 45 W: 10 A (IC-F320)
 - at 35 W: 8 A (IC-F420)
 - Receive
 - Max. audio: 700 mA
 - Standby: 200 mA
- Antenna connector: SO-239 (50 Ω)
- Dimensions: 5-1/2(W) x 1-19/32(H) x 6-11/16(D) in
- Weight: 2 lb 10 oz

TRANSMITTER

- Output power:
 - 45 W (IC-F320)
 - 35 W (IC-F420)
- Modulation system: Variable reactance freq. mod.
- Max. frequency deviation: ± 5.0 kHz, ± 2.5 kHz narrow
- Spurious emissions: 70 dB
- Adjacent ch. power: 70 dB (wide), 60 dB (narrow)
- Mic. connector: 8-pin modular (600 Ω)

RECEIVER

- Sensitivity (at 12 dB SINAD):
 - 0.22 μV typical for IC-F320
 - 0.25 μV typical for IC-F420
- Squelch sensitivity:
 - 0.22 μV typical for IC-F320
 - 0.25 μV typical for IC-F420
- Adjacent channel selectivity: 70 dB (wide), 60 dB (narrow)
- Spurious response: 70 dB
- Intermodulation: 65 dB
- Audio output power: 3 W typical at 5% distortion with a 4 Ω load.
- Ext.SP connector: 2-conductor 3.5 (d) mm (1/8")/4 Ω

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

SUPPLIED ACCESSORIES

- Hand mic.
- DC power cable
- Fuses
- Mounting bracket kit
- Key assign stickers

OPTIONS

- **UT-96 5-TONE UNIT:** Provides 2-tone and 5-tone decoder capabilities
 - **UT-105 SmarTrunk II™ Logic Board.** Provides SmarTrunk II capabilities.
 - **SP-5 EXTERNAL SPEAKER:** Large speaker for excellent audio quality. Input impedance: 4 Ω . Max. input power: 5 W
 - **SP-10 EXTERNAL SPEAKER:** Compact and easy-to-install. Input impedance: 4 Ω . Max. input power: 5 W
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*Not all versions of this device have been approved by the Federal Communications Commission. Please check with your ICOM dealer for approved versions available for sale. Unapproved versions may not be sold or leased, or offered for sale or lease until the approval of the FCC has been obtained. 12/97.

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