VHF AND UHF TRANSCEIVERS

IC-F121 (VHF transceiver)
IC-F221 (UHF transceiver)

- Powerful 50W (VHF), 45W (UHF) Output
- 6 Prog. Buttons and Independent Volume Knob
- 4W typ. Front-mounted Speaker
- 128 Memory Channels with 8 Memory Banks
- 8-Character Alphanumeric Display
- Flexible Hanger Actions
- Built-in 2-Tone, 5-Tone, CTCSS, DTCS Encoder & Decoder
- Advanced Multi 2-Tone/5-Tone Systems (See overleaf for details)
- Standard DTMF Encoder and Optional DTMF Decoder with ANI Function
- Programmable Wide/Narrow Channel Spacing for Each Channel
- 2.5kHz Channel Step (U.S.A. VHF only)
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ADDITIONAL FEATURES

Advanced Multi 2-Tone/5-Tone systems
- Programmable actions when a matched tone is received
  - Bell icon indication ON/OFF/Blink
  - Answer back calls
  - Beep sounds
  - Scan Start/Stop
  - Auto transmission
- Stun/Kill functions (prevents use of a lost or stolen radio)
- External out for horn drive (Optional OPC-617 is required)
- 32 Tx and 9 Rx 5-Tone one codes available
- 32 Tx and 9 Rx 2-Tone one codes available
- 11 Tx and Rx 2-Tone codes available

Other features
- Hook scan function and Hook scan ON/OFF button are assignable
- 10 scanning lists and normal/priority scan
- Power on password
- Optional Voice Scrambler, UT-109/UT-110
- SmarTrunk™ or LTR® Trunking capability with optional UT-105 or UT-111, respectively
- Backlit LCD and keys for night time operations
- Meets MIL-STD 810 C, D, E and F specifications

SPECIFICATIONS

GENERAL
- Frequency coverage : IC-F121 136–174MHz
  - IC-F221 440–490MHz
- Number of channels : 128 channels/8 banks
- Channel spacing : 12.5/25kHz, 15/30kHz
- PLL channel step : VHF 2.5, 3.125kHz
  - UHF 5, 6.25kHz
- Frequency stability : VHF ±5.5ppm
  - UHF ±2.5ppm
- Operating temp. range : –30°C to +60°C, –22°F to +140°F
- Power supply voltage : 13.6V DC
- Current drain (approx.) : Tx VHF (50W) 14A
  - UHF (45W) 13A
- Rx max. audio stand-by : 1200mA
- Antenna impedance : 50Ω (SO-239)
- Dimensions (W×H×D) : 150×40×167.5mm;
  - 6×141⁄32 in × 61⁄16 in
- Weight : 1.1kg ; 2.4lb

TRANSMITTER
- Output power : VHF 50W
  - UHF 45W
- Max. freq. deviation : ±10kHz (wide/narrow)
- Spurious emissions : ±70dB typ.
- Adjacent Ch. power : ±70/60dB (wide/narrow)
- Mic. impedance : 600Ω (8-pin modular)

RECEIVER
- Sensitivity : 0.25μV typ. (at 12dB SINAD)
- Squelch sensitivity : 0.25μV typ.
- Adjacent Ch. selectivity : 75/65dB typ. (wide/narrow)
- Spurious response : ±75dB
- Intermodulation : VHF 74dB typ.
  - UHF 75dB typ.
- Audio output power : 4W typ. at 1% distortion with a 4Ω load
- Ext. SP connector : 2-conductor 3.5 (d) mm (1⁄8"")

OPTIONS

- HM-100TN DTMF MICROPHONE
- OPC-617 ACC CABLE
  - For external terminal connection.
- SM-25 DESKTOP MICROPHONE
  - Convenient for dispatching. Equipped with monitor switch.

- SP-5/SP-10/SP-22 EXTERNAL SPEAKERS
  - Compact and easy-to-install.
  - Input impedance: 4Ω
  - Max. input power: 5W

- UT-105 SmarTrunk™ LOGIC BOARD
  - SmarTrunk II is a trademark of SmarTrunk Systems, Inc.

- UT-108 DTMF DECODER UNIT
  - Provides DTMF decode and ANI capabilities.

- UT-109 VOICE SCRAMBLER UNIT (Version 01)
  - Up to 32 non-rolling scrambling codes available.
- UT-110 VOICE SCRAMBLER UNIT (Version 01)
  - Up to 1020 (255 codes × 4 groups) rolling scrambling codes are available.
- UT-111 LTR TRUNKING BOARD
  - LTR is a registered trademark of E.F. Johnson Company.

Applicable U.S. Military Specifications
The IC-F121 and IC-F221 meet MIL-STD requirements and strict environmental standards for shock (MIL 810 C, D, E and F) and vibration (MIL 810 C, D, E and F).

Available Accessories
- Hand mic. (HM-100N)
- DC power cable
- Mounting bracket kit
- Hanger Kit
- Key assign stickers

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

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