

IC-F510 IC-F610

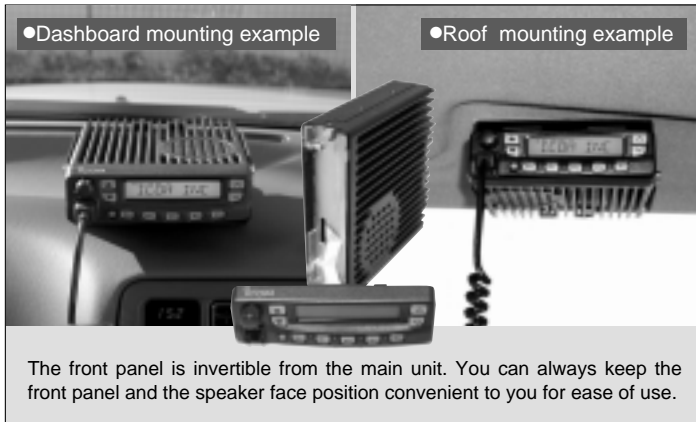


- **9 programmable switches**
Independent AF volume knob
The 2 pairs of up/down switches and P0–P4 switches allow you to customize functions to meet specific needs. The independent volume knob provides quick and easy operation.
- **256 channels with 16 banks**
Up to 256 channels with 10-character channel names can be stored and classified into 16 banks. Further, original characters can be made with the character editor and displayed on the LCD.
- **Invertible front panel for flexible setup**
- **Built-in 5-tone, CTCSS and DTCS encoder/decoder plus DTMF encoder**
Multiple signalling systems are equipped as standard. 8 DTMF dialing memories are available. The optional UT-108 decodes DTMF with ANI functions.
- **Audio compander**
The audio compander provides clear, low noise communications.
- **Rugged construction**
The tough aluminum die-cast chassis and polycarbonate front panel meet MIL standards for shock and vibration.
- **Selectable channel spacing**



ADDITIONAL FEATURES

- Large, alphanumeric display and backlit keys
- Flash CPU advantage for future upgrades and future compatibility with other protocols
- Fractional-N PLL provides faster lock up times
- Power on password and 'Stun' functions
- Microphone hanger function
- 10 scanning lists and normal/priority scan
- Optional voice scrambler unit, UT-109 or UT-110
- SmarTrunkII™ or LTR® Trunking capability with optional UT-105 or UT-111, respectively



SPECIFICATIONS

GENERAL

- Frequency coverage :
 - IC-F510 136-174MHz
 - IC-F610 400-430MHz 440-490MHz 480-520MHz
- Number of channels : Max. 256 channels/16 banks
- Type of emission : 8K50F3E/16K0F3E (12.5/25kHz) 8K50F3E/14K0F3E (12.5/20kHz)
- PLL channel step : 2.5kHz, 5kHz and 6.25kHz
- Frequency stability : ±1.5kHz
- Operating temp. range : -25°C to +55°C
- Power supply voltage : 13.2V DC
- Current drain :
 - Tx at 25W 7A
 - Rx max. audio 1.2A
 - standby 300mA
- Antenna impedance : 50Ω (SO-239)
- Dimensions : 140(W)×40(H)×170(D)mm
- Weight : 1.2kg

TRANSMITTER

- Output power : 25W (at 13.2V DC)
- Max. freq. deviation : ±5.0kHz (wide), ±4.0kHz (middle) ±2.5kHz (narrow)
- Spurious emissions : 0.25μW (below 1GHz)
- Adjacent channel power : 70dB (wide, middle) 60dB (narrow)
- Mic. impedance : 600Ω (8-pin modular)

RECEIVER

- Sensitivity : -4dBμV typ. (emf) (at 20dB SINAD)
- Squelch sensitivity : -4dBμV typ. (threshold)
- Adjacent channel selectivity : 75dB typ. (wide, middle) 65dB typ. (narrow)
- Spurious response : 75dB
- Intermodulation : 67dB typ.
- Audio output power : 4.0W at 10% distortion/4Ω load
- Ext. SP connector : 2-conductor 3.5(d)mm/4Ω

Applicable U.S. Military Specifications

The IC-F510/F610 meets MIL-STD requirements and strict environmental standards for shock (MIL 810 C, D, E) and vibration (MIL 810 C, D, E).

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

Measurements made in accordance with EN 300 086. All stated specifications are subject to change without notice or obligation.

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 II™ 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 02)**
- **UT-110 VOICE SCRAMBLER UNIT (Version 02)**
The scrambler systems of the UT-109 and UT-110 are not compatible with each other. Ask your dealer for details.
- **UT-111 LTR® Trunking UNIT**
LTR is a registered trademark of E.F.Johnson Radio Systems.



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Certificate Number Q14190
Icom Inc. (Japan), is an ISO9001 certification acquired company.

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