



VHF AND UHF TRANSCEIVERS

IC-F110S IC-F210S

Meets
MIL-STD 810



- Simple Operation with Large Buttons and Volume Knob
- 4 Watts (typ.) Front-mounted Speaker
- 8 Memory Channels with LED Display
- User Programmable LED lighting and Various Hanger Actions
- Built-in 5-tone, 2-tone, CTCSS, DTCS Encoder & Decoder
- Advanced Multi 5-tone/2-tone Systems (See overleaf for details)
- Standard DTMF Encoder and Optional DTMF Decoder with ANI Function
- Programmable Wide/Narrow Channel Spacing for Each Channel
- Optional Voice Scrambler, UT-109/UT-110
- MIL-STD 810 C, D, E and F Specification Rugged Construction



Icom Inc.

ADDITIONAL FEATURES

Advanced Multi 5-tone/2-tone systems

- Programmable actions when a matched tone is received
 - LED lighting 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)
- Eight 5-tone codes or ten 2-tone codes can be decoded on a channel
- Three Call codes are programmable

Other features

- Hook scan function and Hook scan ON/OFF button are assignable
- 24-digit DTMF autodial memory
- Automatic ID (DTMF code) transmission linked to PTT
- Busy lockout and repeater lockout
- Power on password
- Reduced length (117.5mm) allows for easier installation
- External I/O terminal socket with optional OPC-617

SPECIFICATIONS

GENERAL

- Frequency coverage :
 - IC-F110S 136–174MHz
 - IC-F210S 400–430MHz
 - 440–490MHz
- Number of channels : 8 (4 channels × 2 banks)
- Channel Spacing : 12.5/25kHz, 12.5/20kHz
- PLL channel step : 2.5, 3.125kHz (VHF)
- 5, 6.25kHz (UHF)
- 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 1200mA
 - Stand-by 300mA
- Antenna impedance : 50Ω (SO-239)
- Dimensions : 150(W)×40(H)×117.5(D) mm
- Weight : 800g

TRANSMITTER

- Output power : 25W (at 13.2V DC)
- Max. frequency 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. (emf, threshold)
- Adjacent channel selectivity : 75dB typ. (wide, middle)
- 65dB typ. (narrow)
- Spurious response : 75dB
- Intermodulation : 67dB typ.
- Audio output power : 4.0W typ. at 10% dist./4Ω load
- Ext. SP connector : 2-conductor 3.5(d)mm/4Ω

Applicable U.S. Military Specifications

The IC-F110S/F210S meets MIL-STD requirements and strict environmental standard for shock (MIL 810 C, D, E and F) and vibration (MIL 810 C, D, E and F).

Supplied Accessories

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

Measurements made in accordance with ETS 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
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-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-109: Non-rolling type. UT-110: Rolling type.



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