



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/4Q

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.



Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: 06 6793 5202 Fax: 06 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

Count on us!

**Icom America Inc.**  
<Corporate Headquarters>  
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.  
Phone: (425) 454-8155 Fax: (425) 454-1509  
URL : <http://www.icomamerica.com>  
<Customer Service> Phone : (425) 454-7619

**Icom Canada**  
Glenwood Centre #150-6165 Highway 17,  
Delta, B.C., V4K 5B8, Canada  
Phone: (604) 952-4266 Fax: (604) 952-0090  
URL : <http://www.icomcanada.com>

**Icom (Australia) Pty. Ltd.**  
A.B.N. 88 006 092 575  
290-294 Albert Street, Brunswick, Victoria, 3056, Australia  
Phone: 03 9387 0666 Fax: 03 9387 0022  
URL : <http://www.icom.net.au>

**Icom New Zealand**  
146A Harris Road, East Tamaki, Auckland, New Zealand  
Phone: 09 274 4062 Fax: 09 274 4708  
URL : <http://www.icom.co.nz>

**Icom (Europe) GmbH**  
Communication Equipment  
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany  
Phone: 0211 346047 Fax: 0211 333639  
URL : <http://www.icomeurope.com>

**Icom Spain S.L.**  
Crta. de Gracia a Manresa Km. 14,750  
08190 Sant Cugat del Valles Barcelona, SPAIN  
Phone: (93) 590 26 70 Fax: (93) 589 04 46  
URL : <http://www.icomspain.com>

**Icom (UK) Ltd.**  
Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.  
Phone: 01227 741741 Fax: 01227 741742  
URL : <http://www.icomuk.co.uk>

**Icom France S.a**  
Zac de la Plaine, Rue Brindejenc des Moulinais  
BP 6804, 31505 Toulouse Cedex, France  
Phone: 561 36 03 03 Fax: 561 36 03 00  
URL : <http://www.icom-france.com>

**Asia Icom Inc.**  
6F No. 68, Sec. 1 Cheng-Teh Road,  
Taipei, Taiwan, R.O.C.  
Phone: (02) 2559 1899 Fax: (02) 2559 1874  
URL : <http://www.asia-icom.com>

**Beijing Icom Ltd.**  
1305, Wanshang Plaza, Shijingshan Road,  
Beijing, China  
Phone: (010) 6866 6337 Fax: (010) 6866 3553

Certificate Number Q14190

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

Your local distributor/dealer: