



VHF AND UHF TRANSCEIVERS

IC-F110 IC-F210



- **8-Character Alphanumeric Display**
The alphanumeric LCD indicates channel, bank name and decoded text, etc. Various status icons for such functions as an S-meter and output power, etc., enhance the array of information available to the user.
- **128 Memory Channels with 8 Memory Banks**
Up to 128 channels with 8-character channel names can be stored and divided into 8 banks for flexible channel management.
- **6 Prog. Buttons and Independent Volume Knob**
The up/down and P0–P3 buttons allow you to customize the use of the IC-F110/F210 meet your specific needs. The independent volume knob provides quick and easy operation. An advanced radio that is simple to use.
- **Built-in 2-Tone, 5-Tone, CTCSS, DTCS Encoder and Decoder and DTMF Encoder**
Multiple signaling systems are equipped as standard. 8 DTMF auto-dialing memories are available. The optional DTMF decoder UT-108 provides ANI function.
- **4W (typ.) Front-mounted Speaker**
- **Programmable Wide/Narrow Channel Spacing for Each Channel**
- **Optional Voice Scrambler, UT-109/UT-110**



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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 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
- Reduced chassis length (117.5mm) allows for easier installation
- External I/O terminal socket with optional OPC-617
- LTR® Trunking capability with optional UT-111
- Backlit LCD and keys for night time operations
- Tested to the MIL-STD 810 C, D, E and F specifications

SPECIFICATIONS

GENERAL

- Frequency coverage :
 - IC-F110 136–174MHz
 - IC-F210 400–430MHz
 - 440–490MHz
- Number of channels : Max. 128, 8 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-F110/F210 has been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	—
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	—
Dust	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

Supplied Accessories

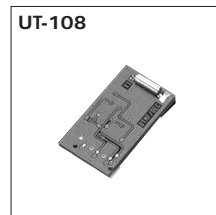
- Hand mic. (HM-152)
- DC power cable
- Mounting bracket kit
- Hanger kit
- Key assign stickers

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

OPTIONS

Some options may not be available in some countries. Please ask your dealer for details.

- **HM-152T 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-108 DTMF DECODER UNIT**
Provides DTMF decode and ANI capabilities.
- **UT-109 VOICE SCRAMBLER UNIT (Version 02)**
Up to 32 scrambling codes are available.
- **UT-110 VOICE SCRAMBLER UNIT (Version 02)**
Provides higher operating security. Up to 1020 (255 codes × 4 groups) scrambling codes are available.
- **UT-111 LTR® Trunking UNIT**
Provides LTR® trunking capabilities.
LTR is a registered trademark of E.F. Johnson Company.



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