



VHF AND UHF TRANSCEIVERS

IC-F111S (VHF transceiver)

IC-F211S (UHF transceiver)



- **Powerful 50W (VHF), 45W (UHF) Output**
- **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**



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
- External I/O terminal socket with optional OPC-617
- Meets MIL-STD 810 C, D, E and F requirements

SPECIFICATIONS

GENERAL

- Frequency coverage :
 - IC-F111S 136–174MHz
 - IC-F211S 400–430MHz
 - 440–490MHz
- Number of channels : 8 channels (4 Ch. × 2 banks)
- Channel Spacing : 12.5/25kHz
- PLL channel step : VHF 2.5, 3, 125kHz
- UHF 5, 6.25kHz
- Frequency stability : VHF ±5.0ppm
- UHF ±2.5ppm
- Operating temp. range: –30°C to +60°C
- Power supply voltage : 13.6V DC
- Current drain (approx.):
 - Tx VHF (50W) 14A
 - UHF (45W) 13A
 - Rx Max. audio 1200mA
 - Stand-by 300mA
- Antenna impedance : 50Ω (SO-239)
- Dimensions (W×H×D) : 150×40×167.5 mm
- Weight : 1.1kg

TRANSMITTER

- Output power : VHF 50W
- (at 13.6V DC) UHF 45W
- Max. frequency deviation : ±5.0kHz (wide)
- ±2.5kHz (narrow)
- Spurious emissions : 70dB typ.
- Adjacent channel : 70dB (wide)
- power 60dB (narrow)
- Microphone impedance : 600Ω (8-pin modular)

RECEIVER

- Sensitivity : 0.25μV typ. (at 12dB SINAD)
- Squelch sensitivity : 0.25μV typ. (threshold)
- Adjacent Ch. selectivity : 75dB typ. (wide)
- 65dB typ. (narrow)
- Spurious response : 75dB
- Intermodulation : VHF 74dB typ.
- UHF 75dB typ.
- Audio output power : 4.0W typ. at 10% distortion with a 4Ω load
- Ext. SP connector : 2-conductor 3.5(d)mm/4Ω

Applicable U.S. Military Specifications

The IC-F111S/F211S meets MIL-STD requirements and strict environmental standards as follows.

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 microphone (HM-100N) ○ DC power cable
- Mounting bracket kit ○ Hanger kit
- Key assign stickers

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.

HM-100TN



OPC-617



SM-25



SP-10



SP-22



UT-108



Les spécifications et informations données dans ce document peuvent être modifiées sans préavis.

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