



## VHF AND UHF TRANSCEIVERS

**IC-F111** (VHF transceiver)

**IC-F211** (UHF transceiver)



- Powerful 50W (VHF), 45W (UHF) Output
- 6 Prog. Buttons and Independent Volume Knob
- 4W typ. Front-mounted Speaker
- 128 Memory Channels with 8 Memory Banks
- 8-Character Alphanumeric Display
- Flexible Hanger Actions
- Built-in 2-Tone, 5-Tone, CTCSS, DTCS Encoder & Decoder
- Advanced Multi 2-Tone/5-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 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
- External I/O terminal socket with optional OPC-617
- SmarTrunkII™ or LTR® Trunking capability with optional UT-105 or UT-111, respectively
- Backlit LCD and keys for night time operations
- Tested to MIL-STD 810 C, D, E and F requirements

SPECIFICATIONS

GENERAL

- Frequency coverage :
  - IC-F111 136–174MHz
  - IC-F211 400–430MHz
  - 440–490MHz
- Number of channels : 128 channels/8 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) : 150×40×167.5mm
- 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 power : 70dB (wide)
- 60dB (narrow)
- Microphone impedance: 600Ω (8-pin modular)

RECEIVER

- Sensitivity : 0.25μV typ. (at 12dB SINAD)
- Squelch sensitivity : 0.25μV typ.
- Adjacent channel selectivity : 75dB typ. (wide)
- 65dB typ. (narrow)
- Spurious response : 75dB
- Intermodulation : VHF 74dB typ.
- UHF 75dB typ.
- Audio output power : 4W 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-F111/F211 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 Blowing/Drip	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 Blowing	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

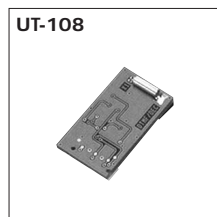
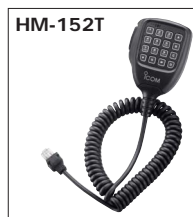
- Hand microphone (HM-152)
- DC power cable
- Mounting bracket kit
- Hanger kit
- Key assign stickers

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-10/SP-22 EXTERNAL SPEAKERS**  
Input impedance: 4Ω; Max. input power: 5W
- **UT-105 SmarTrunk II™ Logic Board**
- **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**  
LTR is a registered trademark of E.F. Johnson Company.



SmarTrunk II is a trademark of the SmarTrunk Systems, Inc.  
LTR is a registered trademark of the E.F. Johnson Company.

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