



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
- Tested to 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. x 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 (WxHxD) : 150x40x167.5 mm
- Weight : 1.1kg

TRANSMITTER

- Output power : VHF 50W
- 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. (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 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 Drp	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

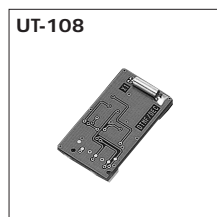
Supplied Accessories

- 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

- **HM-152T DTMF MICROPHONE**
- **OPC-617 ACC CABLE**
For external terminal connection.
- **SM-25 DESKTOP MICROPHONE**
Equipped with monitor switch.
- **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 x 4 groups) scrambling codes are available.



Icom Inc. 1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

Count on us!

Icom America Inc.
2380 116th Avenue NE,
Bellevue, WA 98004, U.S.A.
Phone: +1 (425) 454-8155
Fax: +1 (425) 454-1509
E-mail: sales@icomamerica.com
URL: <http://www.icomamerica.com>

Icom New Zealand
146A Harris Road, East Tamaki,
Auckland, New Zealand
Phone: +64 (09) 274 4062
Fax: +64 (09) 274 4708
E-mail: inquiries@icom.co.nz
URL: <http://www.icom.co.nz>

Icom (UK) Ltd.
Unit 9, Sea St., Herne Bay,
Kent, CT6 8LD, U.K.
Phone: +44 (01227) 741741
Fax: +44 (01227) 741742
E-mail: info@icomuk.co.uk
URL: <http://www.icomuk.co.uk>

Asia Icom Inc.
6F No. 68, Sec. 1 Cheng-Teh Road,
Taipei, Taiwan, R.O.C.
Phone: +886 (02) 2559 1899
Fax: +886 (02) 2559 1874
E-mail: sales@asia-icom.com
URL: <http://www.asia-icom.com>

Your local distributor/dealer:

Icom Canada
Glenwood Centre #150-6165 Highway 17,
Delta, B.C., V4K 5B8, Canada
Phone: +1 (604) 952-4266
Fax: +1 (604) 952-0090
E-mail: info@icomcanada.com
URL: <http://www.icomcanada.com>

Icom (Europe) GmbH
Communication Equipment
Himmelgeister Str. 100,
D-40225 Düsseldorf, Germany
Phone: +49 (0211) 346047
Fax: +49 (0211) 333639
E-mail: info@icom-europe.com
URL: <http://www.icomeurope.com>

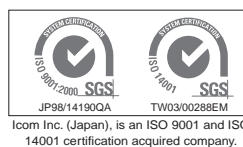
Icom France S.a
Zac de la Plaine, 1,
Rue Brindejonc des Moulinais BP 5804,
31505 Toulouse Cedex, France
Phone: +33 (5) 61 36 03 03
Fax: +33 (5) 61 36 03 00
E-mail: icom@icom-france.com
URL: <http://www.icom-france.com>

Beijing Icom Ltd.
10C07, Long Silver Mansion, No.88, Yong Ding
Road, Haidian District, Beijing, 100039, China
Phone: +86 (010) 5889 5391/5392/5393
Fax: +86 (010) 5889 5395
E-mail: bjicom@bjicom.com
URL: <http://www.bjicom.com>

Icom (Australia) Pty. Ltd.
A.B.N. 88 006 092 575
Unit 1 / 103 Garden Road,
Clayton VIC 3168 Australia
Phone: +61 (03) 9549 7500
Fax: +61 (03) 9549 7505
E-mail: sales@icom.net.au
URL: <http://www.icom.net.au>

Icom Spain S.L.
Ctra. de Gracia a Manresa Km. 14,750
08190 Sant Cugat del Valles Barcelona, Spain
Phone: +34 (93) 590 26 70
Fax: +34 (93) 589 04 46
E-mail: icom@icomspain.com
URL: <http://www.icomspain.com>

Icom Polska
Sopot, 3 maja 54, Poland
Phone: +48 (58) 550 7135
Fax: +48 (58) 551 0484
E-mail: icompolska@icompolska.com.pl
URL: <http://www.icompolska.com.pl>



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