



**IC-F1000** Series  
**IC-F2000** Series

**VHF AND UHF TRANSCEIVERS**

## Little Radio, Big Sound! Class Leading 1500 mW Audio and Full of Great Features

The IC-F1000/F2000 series provides class leading 1500 mW loud and clear audio with Icom custom high power handling capacity speaker. It offers a compact, waterproof durable design and is full of great features such as motion/stationary detection sensor, man down, voice scrambler and voice announcement functions. The radio is ideal for business and industry users who require economical value and reliability in a radio.

**Icom custom high power handling capacity speaker for 1500 mW powerful audio**

**Compact, waterproof durable design (IP67 and MIL-STD-810-G)**

**Enhanced emergency safety with built-in motion/stationary detection sensor**

**128 channel capacity with eight zones (Simple type and ten-key type)**

**Built-in 2-Tone, 5-Tone, CTCSS and DTCS**

**MDC and BIIS compatible**

**16-code inversion voice scrambler**

**Man down and lone worker functions**

**Channel announcement**

**Up to 14 hours of operating time with supplied BP-279 battery**

**5 W (VHF), 4 W (UHF) RF output power**



### General Features

- 136–174, 335–380, 400–470, 450–512, 450–520 MHz versions
- 1500 mW large volume audio from Icom custom speaker
- Improved sound clarity
- Compact (52.2 × 111.8 × 24.5 mm; 2.1 × 4.4 × 1.0 in) and lightweight (240 g; 8.5 oz with BP-279)
- IP67 waterproof and dust-tight protection
- Tested to 12 categories of MIL-STD-810-G environmental tests
- DTMF autodial memories
- 16-position rotary selector and ON/OFF volume knob
- “Shift key” function increases number of programmable key assignments
- Up to 14 hours of operating time with supplied BP-279 battery pack
- Eight character alphanumeric display (Ten-keypad/simple-keypad versions)
- Three color LED



1500 mW powerful audio



Icom custom high power handling capacity speaker



Waterproof for 30 minutes at one meter

### Signaling Functions

- CTCSS and DTCS tone
- 2-Tone and 5-Tone
- MDC PTT ID transmission
- BIIS PTT ID transmission

### Safety and Security

- 16-code inversion voice scrambler
- Radio Stun/Revive/Kill commands (2-Tone and 5-Tone, RX only)
- Radio Stun/Revive commands (MDC, RX only)
- Auto TX function (2-Tone and 5-Tone)
- MDC emergency call with open microphone function (MDC, RX only)
- Man down function
- Lone worker function
- Motion and stationary detection function
- Surveillance function temporarily turns OFF the beep and LED indicator
- Power ON password (for the simple type and 10-key type)
- Emergency key for emergency call

### Scan Functions

- Priority scan monitors one or two priority channels while scanning non-priority channels
- Mode dependent scan automatically changes the scan list according to the operating channel
- Power ON scan function
- Talk back timer

### Voice/Audio Functions

- Channel announcement function
- VOX function for hands-free operation
- Audio compander
- Siren sound for security alarm

## SPECIFICATIONS

## IC-F1000 • IC-F2000 Series

|  | IC-F1000T/S   | IC-F1000   | IC-F2000T/S   | IC-F2000   |
|--|---|--|---|--|
| <b>GENERAL</b>   |   |  |   |  |
| Frequency coverage*<br>(* Varies according to version) | 136–174 MHz   |  | 400–470 MHz (ALL)<br>450–512 MHz (USA)<br>450–520 MHz (EXP)                             | 335–380 MHz (EXP)<br>400–470 MHz (ALL)<br>450–512 MHz (USA)<br>450–520 MHz (EXP) |
| Number of channels                                     | 128 channels/ 8 zones   | 16 channels                                      | 128 channels/ 8 zones   | 16 channels  |
| Type of emission*<br>(* Depending on version)          | 16K0F3E*1/11K0F3E (USA/EXP)<br>16K0F3E/14K0F3E/8K50F3E (EUR)  |  |   |  |
| Power supply requirement                               | 7.5 V DC nominal  |  |   |  |
| Current drain (approx.)                                | 1.3 A   |  |   |  |
|  | Tx  | 500 mA /77 mA (Max. audio (internal SP)/Standby) |   | 500 mA /80 mA (Max. audio (internal SP)/Standby)                                 |
| Rx   |   |  |   |  |
| Antenna impedance                                      | 50 Ω  |  |   |  |
| Operating temperature range                            | –30°C to +60°C; –22°F to +140°F (Radio specification) (USA/EXP)<br>–25°C to +55°C (Radio specification) (EUR) |  |   |  |
| Dimensions (W × H × D; Projections not included)       | 52.2 × 111.8 × 24.5 mm; 2.1 × 4.4 × 1.0 in (With BP-279)  |  |   |  |
| Weight (approx.)                                       | 240 g; 8.5 oz (With BP-279)   |  |   |  |
| <b>TRANSMITTER</b>                                     |   |  |   |  |
| Output power (Hi, L2, L1)                              | 5 W, 2 W, 1 W   |  | 4 W, 2 W, 1 W   |  |
| Maximum frequency deviation                            | ± 5.0 kHz (@ 25 kHz), ± 4.0 kHz (@ 20 kHz), ± 2.5 kHz (@ 12.5 kHz)  |  |   |  |
| Spurious emissions                                     | 70 dB minimum (USA/EXP)<br>0.25 μW (≤ 1 GHz), 1.0 μW (> 1 GHz) (EUR)  |  |   |  |
| Frequency stability                                    | ± 2.5 ppm   |  |   |  |
| Audio harmonic distortion                              | 1.0% typical (@ 25/20 kHz), 1.5% typical (@ 12.5 kHz) (at AF 1 kHz 40% deviation)                             |  |   |  |
| FM Hum and Noise (without CCITT filter)                | 46 dB typical (@ 25 kHz), 40 dB typical (@ 12.5 kHz) (USA/EXP)  |  |   |  |
| Residual modulations (with CCITT filter)               | 50 dB typical (@ 25 kHz), 47 dB typical (@ 20 kHz),<br>44 dB typical (@ 12.5 kHz) (EUR)                       |  | 53 dB typical (@ 25 kHz), 51 dB typical (@ 20 kHz),<br>48 dB typical (@ 12.5 kHz) (EUR) |  |
| External microphone connector                          | 3-conductor 2.5 (d) mm (1/10)/2.2 kΩ  |  |   |  |
| <b>RECEIVER</b>  |   |  |   |  |
| Sensitivity  | 0.25 μV typical   |  |   |  |
|  | (at 12 dB SINAD)  | –4 dBμV typical emf                              |   |  |
| Adjacent channel selectivity                           | 76 dB typical (@ 25 kHz), 53 dB typical (@ 12.5 kHz) (TIA-603D)   |  | 73 dB typical (@ 25 kHz), 56 dB typical (@ 12.5 kHz) (TIA-603D)                         |  |
|  | 78 dB typical (@ 25 kHz), 71 dB typical (@ 12.5 kHz) (TIA-603A)   |  | 74 dB typical (@ 25 kHz), 64 dB typical (@ 12.5 kHz) (TIA-603A)                         |  |
| Spurious response rejection                            | 76 dB typ. (@ 25 kHz), 72 dB typ. (@ 20 kHz),<br>53 dB typ. (@ 12.5 kHz) (EUR)                                |  | 73 dB typ. (@ 25 kHz), 73 dB typ. (@ 20 kHz),<br>56 dB typ. (@ 12.5 kHz) (EUR)          |  |
|  | 70 dB minimum   |  |   |  |
| Intermodulation rejection                              | 74 dB typical (USA/EXP)   |  | 73 dB typical (USA/EXP)   |  |
|  | 68 dB typical (EUR)   |  | 67 dB typical (EUR)   |  |
| Hum and noise  | (With CCITT filter)   |  | 49 dB typical (@ 25 kHz), 43 dB typical (@ 12.5 kHz) (USA/EXP)                          |  |
|  | (Without CCITT filter)  |  | 52 dB typical (@ 25 kHz), 49 dB typical (@ 20 kHz),<br>46 dB typical (@ 12.5 kHz) (EUR) |  |
| AF output power (at 5% distortion)                     | 1500 mW typical (With 8 Ω load)   |  |   |  |
|  | Internal SP   | 400 mW typical (With 8 Ω load)                   |   |  |
| External speaker connector                             | 2-conductor 3.5 (d) mm (1/8)/8 Ω  |  |   |  |

All stated specifications are subject to change without notice or obligation. Measurements made in accordance with TIA-603 (USA/EXP) or EN 300-086 (EUR).

\*1 25 kHz bandwidth is no longer available for FCC Part 90 licensees for USA versions.

## Applicable U.S. Military Specifications &amp; IP Rating

| Standard          | MIL 810G |  |           |
|-------------------|----------|--|-----------|
|                   | Method   |  | Procedure |
| Low Pressure      | 500.5    |  | I, II     |
| High Temperature  | 501.5    |  | I, II     |
| Low Temperature   | 502.5    |  | I, II     |
| Temperature Shock | 503.5    |  | I-C       |
| Solar Radiation   | 505.5    |  | I         |
| Rain Blowing/Drip | 506.5    |  | I, III    |
| Humidity          | 507.5    |  | II        |
| Salt Fog          | 509.5    |  | –         |
| Dust Blowing      | 510.5    |  | I         |
| Immersion         | 512.5    |  | I         |
| Vibration         | 514.6    |  | I         |
| Shock             | 516.6    |  | I, IV     |

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

| Ingress Protection Standard |   |
|-----------------------------|---|
| Dust & Water                | IP67 (Dust-tight and waterproof protection) |

## Battery Life

| Battery pack | Type         | Capacity                         | Operating time* |
|--------------|--------------|----------------------------------|-----------------|
| BP-278       | Li-ion 7.2 V | 1190 mAh (typ.), 1130 mAh (min.) | Up to 10 hours  |
| BP-279       | Li-ion 7.2 V | 1570 mAh (typ.), 1485 mAh (min.) | Up to 14 hours  |
| BP-280       | Li-ion 7.2 V | 2400 mAh (typ.), 2280 mAh (min.) | Up to 20 hours  |

\* TX: RX: standby = 5:5:90. Power save function ON.

## Supplied accessories: (May differ or not supplied, depending on version)

- Battery pack, BP-279
- Desktop charger, BC-213\*
- AC adapter, BC-123SA/SE/SUK\*
- Belt clip, MB-133
- Antenna



The "3D GENUINE Icom label" is attached to the rear chassis under the battery. Check the Icom website for details: <http://www.icom.co.jp/world/genuine-info/>

## OPTIONS

## ■ BATTERY PACKS

**BP-278:** 1190 mAh (typ.), 1130 mAh (min.) rechargeable Li-ion battery.

**BP-279:** 1570 mAh (typ.), 1485 mAh (min.) rechargeable Li-ion battery.

**BP-280:** 2400 mAh (typ.), 2280 mAh (min.) rechargeable Li-ion battery.



BP-278 BP-279 BP-280

## ■ BATTERY CHARGERS

**BC-213:** Desktop charger.

Charges the BP-278, BP-279 or BP-280. Charges the BP-279 in 2.5 hours (approximate).  
+ **BC-123SA/SE/SUK/SV:** AC adapter.

**BC-214:** Multi-charger.

Charges up to six radios and/or batteries at the same time.

+ **BC-157S:** AC adapter.

\* AD-130 charger adapter is supplied with the BC-214, depending on version.



BC-213 BC-123SA BC-214 BC-157S

## ■ POWER SUPPLY CABLES AND CHARGER BRACKET

**CP-23L:** Vehicle charger cable for use with the BC-213.

**OPC-656:** DC power cable for use with the BC-214.

**MB-130:** Charger bracket for use with the BC-213.



CP-23L OPC-656 MB-130

## ■ SPEAKER-MICROPHONES

**HM-168LWP:** Waterproof speaker microphone with a waterproof connector. IP67 protection.

**HM-158LA:** Compact speaker microphone with 2.5 mm earphone jack.

**HM-159LA:** Speaker microphone with 2.5 mm earphone jack.



HM-168LWP HM-158LA HM-159LA

## ■ EARPHONE-MICROPHONES

**HM-153LA:** Durable lapel microphone with earphone.

**HM-166LA:** Light weight lapel microphone with earphone.



HM-153LA HM-166LA

## ■ HEADSETS, PTT SWITCH CABLE &amp; PLUG ADAPTER

**HS-94LWP:** Earphone-headset with a waterproof connector.

**HS-95LWP:** Behind-the-head headset with a waterproof connector.

**HS-94:** Earphone-headset. (Use with either the VS-4LA or OPC-2004LA)

**HS-95:** Behind-the-head headset. (Use with either the VS-4LA or OPC-2004LA)

**HS-97:** Throat microphone. (Use with either the VS-4LA or OPC-2004LA)

**VS-4LA:** PTT switch cable for manual PTT operation.

(For use with either the HS-94, HS-95 or HS-97)

**OPC-2004LA:** Plug adapter cable for VOX operation.

(For use with either the HS-94, HS-95 or HS-97)



HS-94LWP HS-95LWP HS-97 VS-4LA OPC-2004LA

## ■ BELT CLIP

**MB-133:** Alligator belt clip. Same as supplied.



MB-133

## ■ SOFTWARE AND CABLE

**CS-F2000:** Programming software.

**OPC-478UC:** USB type radio programming cable.

## ■ ANTENNAS

**FA-SC25V:** 136–150 MHz

**FA-SC55V:** 150–174 MHz

**FA-SC25U:** 400–430 MHz

**FA-SC57U:** 430–470 MHz

**FA-SC72U:** 470–520 MHz

**FA-SC01U:** 350–400 MHz

**FA-SC02U:** 330–380 MHz



FA-SC25V FA-SC55V FA-SC25U FA-SC57U FA-SC72U FA-SC01U

## ■ HIGH GAIN ANTENNAS

**FA-SC62V:** 150–160 MHz

**FA-SC63V:** 155–165 MHz



FA-SC62V FA-SC63V

## ■ STUBBY ANTENNAS

**FA-SC26VS:** 136–144 MHz

**FA-SC27VS:** 142–150 MHz

**FA-SC56VS:** 150–162 MHz

**FA-SC57VS:** 160–174 MHz

**FA-SC26US:** 400–450 MHz

**FA-SC73US:** 450–490 MHz



FA-SC26VS FA-SC27VS FA-SC26US

## ■ CUT-TYPE ANTENNAS

**FA-SC61VC:** 136–174 MHz

**FA-SC61UC:** 380–520 MHz



FA-SC61VC FA-SC61UC

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

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