



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

**VHF AND UHF TRANSCEIVERS**

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



**Icom custom high power 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 compatible**

**Man down and lone worker functions**

**Channel announcement**

**Up to 20/18 hours (VHF/UHF) of operating time with BP-280 battery**

**5 W RF output power both VHF & UHF\***

\* UHF output power varies (4 W or 5 W) depending on the version.



IC-F1000T

IC-F2000S

IC-F1000

## General Features

- 136 – 174, 400 – 470, 450 – 520 MHz versions
- 5 W RF output power both VHF & UHF\* (depending on version)
- 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 20/18 hours (VHF/UHF) of operating time with BP-280 battery pack (depending on version)
- Eight character alphanumeric display (Ten-keypad/simple keypad versions)
- Three color LED
- Optional 1500 mW speaker-microphone, HM-222HLWP\*  
\* For the transceiver with a “N” or “U” mark on the serial number label.



1500 mW powerful audio



Icom custom high power capacity speaker



Waterproof for 30 minutes at one meter



1500 mW powerful audio with optional HM-222HLWP

## Signaling Functions

- CTCSS and DTCS tone
- 2-Tone and 5-Tone
- MDC PTT ID, Emergency (TX/RX), Radio Check (RX), Stun (RX), Revive (RX)
- Up to 100 ID numbers and names can be saved to show the alias name, instead of the ID number
- BIIS PTT ID transmission\* (depending on version)

## Safety and Security

- 16-code inversion voice scrambler\* (depending on version)
- 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\* (depending on version)
- Siren sound for security alarm

\* Inversion voice scrambler, BIIS and audio compander functions are not available, depending on the version.

# SPECIFICATIONS

	IC-F1000/T/S (EXP/CAN Version)	IC-F1000/T/S (EUR Version)	IC-F1000/T/S (EXP/AUS Version)	IC-F2000/T/S (EXP/CAN Version)	IC-F2000/T/S (EUR Version)	IC-F2000/T/S (EXP/AUS Version)	
<b>GENERAL</b>							
Frequency coverage* (* Varies according to version)	136 ~ 174 MHz			400 ~ 470 MHz		450 ~ 520 MHz	
Number of channels	128 channels/ 8 zones (IC-F1000T/S: with LCD) 16 channels (IC-F1000: without LCD)			128 channels/ 8 zones (IC-F2000T/S: with LCD) 16 channels (IC-F2000: without LCD)			
Type of emission* (* Depending on version)	16K0F3E/11K0F3E	16K0F3E/14K0F3E/ 8K50F3E	16K0F3E/8K50F3E	16K0F3E/11K0F3E	16K0F3E/14K0F3E/ 8K50F3E	16K0F3E/8K50F3E	
Power supply requirement	7.5 V DC nominal			7.5 V DC nominal			
Current drain (approx.)	Tx Rx		1.3 A	1.6 A (5 W), 1.3 A (4 W)			
Antenna impedance	50 Ω			50 Ω			
Operating temperature range (Radio specification)	-30°C to +60°C; -22°F to +140°F			-30°C to +60°C; -22°F to +140°F		-10°C to +60°C; 14°F to +140°F	
Dimensions (W × H × D; Projections not included)	52.2 × 111.8 × 24.5 mm; 2.1 × 4.4 × 1.0 in (With BP-279) 52.2 × 111.8 × 30.3 mm; 2.1 × 4.4 × 1.2 in (With BP-280)			52.2 × 111.8 × 24.5 mm; 2.1 × 4.4 × 1.0 in (With BP-279) 52.2 × 111.8 × 30.3 mm; 2.1 × 4.4 × 1.2 in (With BP-280)			
Weight (approx.)	240 g; 8.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280)			240 g; 8.5 oz (With BP-279), 270 g; 9.5 oz (With BP-280)			
<b>TRANSMITTER</b>							
Output power (Hi, L2, L1)	5 W, 2 W, 1 W			5 W, 2 W, 1 W or 4 W, 2 W, 1 W (Selectable by programming, depending on version)			
Maximum frequency deviation	±5.0 kHz (W), ±2.5 kHz (N)	±5.0 kHz (W), ±4.0 kHz (M), ±2.5 kHz (N)	±5.0 kHz (W), ±2.5 kHz (N)	±5.0 kHz (W), ±2.5 kHz (N)	±5.0 kHz (W), ±4.0 kHz (M), ±2.5 kHz (N)	±5.0 kHz (W), ±2.5 kHz (N)	
Frequency stability	±2.5 ppm			±2.5 ppm			
Spurious emissions	70 dB min.	0.25 μV (≤ 1 GHz), 1.0 μV (> 1 GHz)		70 dB min.	0.25 μV (≤ 1 GHz), 1.0 μV (> 1 GHz)		1.0 μV
Adjacent channel power	81 dB typ. (W), 71 dB typ. (N)	82 dB typ. (W), 81 dB typ. (M), 78 dB typ. (N)	-44 dBm typ. (W), -42 dBm typ. (N)	77 dB typ. (W), 69 dB typ. (N)	77 dB typ. (W), 77 dB typ. (M), 76 dB typ. (N)	-36 dBm typ. (W), -35 dBm typ. (N)	-35 dBm typ. (W), -35 dBm typ. (N)
Audio harmonic distortion (at AF 1 kHz 40% dev.)	1.0% typ. (W/N)		1.0% typ. (W/M/N)	1.0% typ. (W/N)	1.0% typ. (W/M/N)		1.0% typ. (W/N)
FM Hum and Noise	68 dB typ. (W), 67 dB typ. (N) (without CCITT filter)	70 dB typ. (W), 70 dB typ. (M), 69 dB typ. (N) (with CCITT filter)	-	66 dB typ. (W), 64 dB typ. (N) (without CCITT filter)	69 dB typ. (W), 69 dB typ. (M), 67 dB typ. (N) (with CCITT filter)	-	54 dB typ. (W), 48 dB typ. (N) (with CCITT filter)
External microphone connector	3-conductor 2.5 (d) mm (1/10)/2.2 kΩ			3-conductor 2.5 (d) mm (1/10)/2.2 kΩ			
<b>RECEIVER</b>							
Sensitivity	0.20 μV typ. (at 12 dB SINAD)	-4 dBμV typ. emf (at 20 dB SINAD)	0.20 μV typ. (at 12 dB SINAD)	0.21 μV typ. (at 12 dB SINAD)	-2.5 dBμV typ. emf (at 20 dB SINAD)	0.21 μV typ. (at 12 dB SINAD)	
Adjacent channel selectivity	75 dB typ. (W), 72 dB typ. (N)	76 dB typ. (W), 74 dB typ. (M), 72 dB typ. (N)	76 dB typ. (W), 72 dB typ. (N)	73 dB typ. (W), 71 dB typ. (N)	73 dB typ. (W), 73 dB typ. (M), 71 dB typ. (N)	74 dB typ. (W), 71 dB typ. (N)	72 dB typ. (W), 69 dB typ. (N)
Spurious response rejection	70 dB min.			70 dB min.			
Intermodulation rejection	75 dB typ.	65 dB min.	72 dB typ.	72 dB typ.	65 dB min.	72 dB typ.	65 dB min.
Hum and noise	66 dB typ. (W), 63 dB typ. (N) (Without CCITT filter)	58 dB typ. (W), 57 dB typ. (M), 53 dB typ. (N) (With CCITT filter)	-	65 dB typ. (W), 63 dB typ. (N) (Without CCITT filter)	58 dB typ. (W), 56 dB typ. (M), 53 dB typ. (N) (With CCITT filter)	-	66 dB typ. (W), 63 dB typ. (N) (With CCITT filter)
Squelch sensitivity	0.20 μV typ.	-8 dBμV typ. emf	0.20 μV typ.	0.21 μV typ.	-8 dBμV typ. emf	0.21 μV typ.	
AF output power (at 5% distortion, with 8 Ω load)	Internal SP	1500 mW typ.		1500 mW typ.			
	External SP	400 mW typical 1500 mW typical (With HM-222HLWP)		400 mW typical 1500 mW typical (With HM-222HLWP)			
External speaker connector	2-conductor 3.5 (d) mm (1/8)/8 Ω			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 EN 300-086 (EUR), TIA-603 (EXP/CAN) or AS/NSZ 4295 (EXP/AUS).

## Applicable U.S. Military Specifications & 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	VHF	UHF	UHF
				(400 - 470 MHz)	(450 - 520 MHz)
BP-279	Li-ion 7.2 V	1570 mAh (typ.), 1485 mAh (min.)	Up to 13 hours	Up to 12 hours	Up to 11.5 hours
BP-280	Li-ion 7.2 V	2400 mAh (typ.), 2280 mAh (min.)	Up to 20 hours	Up to 18 hours	Up to 18 hours

\* At 5 W output power. TX: standby = 5:5:90. Power save function ON.  
Battery life varies depending on the version.

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

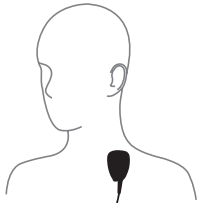
- Battery pack, BP-279 or BP-280\*
- Desktop charger, BC-213
- Belt clip, MB-133
- AC adapter, BC-242
- Antenna



### Genuine Product Authentication

Are you using a genuine Icom product?  
Scan the QR code on the rear chassis under the battery to verify it is a genuine Icom product.  
For more details: [www.icomjapan.com/explore/genuine\\_info/](http://www.icomjapan.com/explore/genuine_info/)

SPEAKER-MICROPHONES



**HM-222HLWP:**  
High-power speaker-mic with 3.5 mm earphone jack.  
**Water proof**



**HM-168LWP:**  
Waterproof speaker-mic.  
**Water proof**



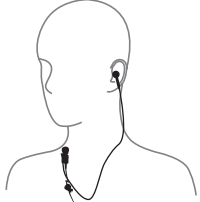
**HM-158LA:**  
Compact speaker-mic with 3.5 mm earphone jack



**HM-159LA:**  
Speaker-mic with 3.5 mm earphone jack.



EARPHONE-MICROPHONES



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



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



**PARTNER PRODUCT**

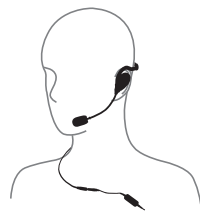
Icom affiliated IJKP Product



**IJKP-HM-2PL-OW:**  
Acoustic Type Earphone Microphone



HEADSETS



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



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



HEADSETS + PTT SWITCH CABLE / PLUG ADAPTER

**HS-97:**  
Throat microphone.



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



or

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



HS-94 and HS-95 are also available. (Use with either the VS-4LA or OPC-2004LA)

BATTERY PACKS

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



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



BATTERY CHARGER

**BC-213:**  
Charges the BP-279 in 2.5 hours (approximate). \* AC adapter is supplied, depending on the charger version.



MULTI-CHARGER

**BC-214N (#41~#43):**  
\* AC adapter BC-157S is supplied, depending on the charger version.



BELT CLIP

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



CHARGER ACCESSORIES

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



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



ANTENNAS

**FA-SC25V:** 136–150 MHz  
**FA-SC28V:** 148–162 MHz  
**FA-SC29V:** 160–174 MHz  
**FA-SC55V:** 150–174 MHz  
**FA-SC25U:** 400–430 MHz  
**FA-SC57U:** 430–470 MHz  
**FA-SC72U:** 470–520 MHz



HIGH GAIN ANTENNAS

**FA-SC62V:** 150–160 MHz  
**FA-SC63V:** 155–165 MHz

FA-SC62V

CUT-TYPE ANTENNAS

**FA-SC61VC:** 136–174 MHz  
**FA-SC61UC:** 380–520 MHz

FA-SC61UC

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



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

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