

### More Distance, Louder and Clearer Audio – Reliable Radio Communication Tool



- 5 W output power plus new antenna provides 1.5 times\*<sup>1</sup> more communication distance
- 1500 mW powerful audio and 1.5 times\*<sup>2</sup> higher sound pressure
- Dust-protection, water resistance and a tough body (IP54 and MIL-STD 810G)
- 19 hours\*<sup>3</sup> of long lasting battery life
- 200 channels with 5-character alphanumeric display
- Automatic DTMF transmission linked to PTT (on pressing PTT (Log-in) / on releasing PTT (Log-off))
- Durable BNC type antenna connector

#### And More

- The rotary knob on the top panel is assignable either to volume control or channel selector
- Supplied BC-240, battery charger with a charging control function that prolongs the life of the battery
- Integrated VOX function
- Built-in CTCSS and DTCS encoder/decoder
- Priority, memory, skip and tone scanning

\*<sup>1</sup> Wide open space. Approximate, comparing the IC-G86 with the IC-G80. Communication range may differ depending on operating environment or weather conditions, etc.

\*<sup>2</sup> Approximate, comparing the IC-G86 with the IC-G80.

\*<sup>3</sup> At EX Hi Power mode. TX : RX : standby = 5 : 5 : 90 (The Power Save function is on.)



1500 mW powerful audio

SPECIFICATIONS

GENERAL	
Frequency range	136-174 MHz
Type of emissions	F2D, F3E (FM, FM-N)
Number of channels	200 channels
Antenna impedance	50 Ω
Power supply requirement	7.5 V DC
Operating temperature range	-20°C to +60°C, -4°F to +140°F
Frequency stability	±2.5 ppm (-20°C to +60°C, -4°F to +140°F)
Current drain	
TX (EX Hi/Hi/Mid/Low)	1.6/1.4/1.0/0.5 A
RX (Max. audio)	450 mA typ. (INT SP), 200 mA typ. (EXT SP)
Dimensions (WxHxD) (Projections not included)	58.6 × 112 × 30.5 mm, 2.3 × 4.4 × 1.2 in (with BP-298)
Weight (Approximate)	300 g, 10.6 oz (with BP-298, FA-B57V)
TRANSMITTER	
Output power	5.0/3.0/2.0/0.5 W (EX Hi/Hi/Mid/Low)
Maximum frequency deviation	±5.0 kHz/±2.5 kHz (Wide/Narrow)
Spurious emissions	-80 dB
External microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2 kΩ
RECEIVER	
Sensitivity	0.14μV (at 12dB sinad)
Squelch sensitivity	0.11μV
Selectivity (Wide/Narrow)	75 dB/70 dB
Intermodulation	70 dB
Audio output power	
Internal speaker	1500 mW (with 8 Ω load)
External speaker	550 mW (with 8 Ω load)
External speaker connector	3-conductor 3.5 (d) mm (1/8")/ 8 Ω

All stated specifications are subject to change without notice or obligation.

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
Vibration	514.6	I
Shock	516.6	I, IV

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

Ingress Protection Standard

Dust and Water	IP54 (Dust-protection, water resistance)
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Supplied accessories :

- BP-298, battery pack
- BC-240, desktop charger
- BC-242, AC adapter
- MB-124, belt clip
- FA-B57V, antenna

OPTIONS

**BATTERY PACKS & CASE**

Battery pack type	Capacity	Operating time*
<b>BP-298</b> Rechargeable Li-ion	2100 mAh (min.), 2250 mAh (typ.)	Up to 19 hours
<b>BP-299</b> Rechargeable Li-ion	3050 mAh (min.), 3150 mAh (typ.)	Up to 27 hours
<b>BP-263</b> AA (LR6) batteries × 6	—	—

\* At EX Hi Power mode. TX : RX : standby = 5 : 5 : 90 (The Power Save function is on.)

**RAPID CHARGERS**

**BC-240** Rapid charger for BP-298/BP-299  
**BC-191** Rapid charger for BP-264

**PTT SWITCH CABLE & PLUG ADAPTER CABLE VS-4LA**  
 For manual PTT operation  
**OPC-2004LA**  
 For VOX operation

**MULTI-CHARGER**  
**BC-214N\*** For BP-298/BP-299

**SPEAKER-MICROPHONES**

Waterproof

\*The AD-139/AD-120 charger adapters are supplied with the BC-214N/BC-197, depending on the charger version.

**EARPHONE-MICROPHONES**

**CHARGER BRACKET**  
**MB-130**  
 For single chargers

**CIGARETTE LIGHTER CABLE**  
**CP-23L**  
 For single chargers

**DC POWER CABLES**

▲ **OPC-515L**  
 For single chargers

▲ **OPC-656**  
 For multi-chargers

**ANTENNAS**  
**FA-B45V** 140 MHz  
**FA-B57V** 160 MHz

**BELT CLIP**  
**MB-124**

**PROGRAMMING SOFTWARE & CABLES**  
**CS-G86** Programming software  
**OPC-478UC** Handheld to PC USB cable  
**OPC-474** Handheld to handheld

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



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Icom Inc. 1-1-32, Kamiminami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 [www.icom.co.jp/world](http://www.icom.co.jp/world) Count on us!

**Icom America Inc.**  
 12421 Wilows Road NE,  
 Kirkland, WA 98034, U.S.A.  
 Phone: +1 (425) 454-8155  
 Fax: +1 (425) 454-1509  
 E-mail: [sales@icomamerica.com](mailto:sales@icomamerica.com)  
 URL: <http://www.icomamerica.com>

**Icom (Europe) GmbH**  
 Communication Equipment  
 Auf der Krautweide 24  
 65812 Bad Soden am Taunus, Germany  
 Phone: +49 (6196) 76685-0  
 Fax: +49 (6196) 76685-50  
 E-mail: [info@icom-europe.com](mailto:info@icom-europe.com)  
 URL: <http://www.icomeurope.com>

**Icom France s.a.s.**  
 Zac de la Plaine,  
 1 Rue Brindejone des Moulins, BP 45804,  
 31505 Toulouse Cedex 5, France  
 Phone: +33 (5) 61 36 03 03  
 Fax: +33 (5) 61 36 03 00  
 E-mail: [icom@icom-france.com](mailto:icom@icom-france.com)  
 URL: <http://www.icom-france.com>

**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](mailto:sales@asia-icom.com)  
 URL: <http://www.asia-icom.com>

Your local distributor/dealer:

*G. Simon Radio Co., Ltd.*

1 อาคารเอ็มดีทาวเวอร์ ชั้น 16 หองเอ-ซี2  
 ซ.บางนา-ตราด 25 แขวงบางนาเหนือ  
 เขตบางนา กรุงเทพมหานคร 10260  
 โทร: 02 361 8261-70  
 แฟกซ์: 02 361 8275  
 Email : [info@gsimon.com](mailto:info@gsimon.com)

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

**Icom Spain S.L.**  
 Ctra. Rubi, No. 88 "Edificio Can Castanyer"  
 Bajos A 08174, Sant Cugat del Valles,  
 Barcelona, Spain  
 Phone: +34 (93) 590 26 70  
 Fax: +34 (93) 589 04 46  
 E-mail: [icom@icomspain.com](mailto:icom@icomspain.com)  
 URL: <http://www.icomspain.com>

**Icom (Australia) Pty. Ltd.**  
 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](mailto:sales@icom.net.au)  
 URL: <http://www.icom.net.au>

**Shanghai Icom Ltd.**  
 No.101, Building 9, Caifuxingyuan Park,  
 No.188 Maoting Road, Chedun Town,  
 Songjiang District, Shanghai, 201611, China  
 Phone: +86 (021) 6153 2768  
 Fax: +86 (021) 5765 9987  
 E-mail: [bjicom@bjicom.com](mailto:bjicom@bjicom.com)  
 URL: <http://www.bjicom.com>

**Icom Brazil**  
 Rua Itororó, 444 Padre Eustáquio  
 Belo Horizonte MG,  
 CEP: 30720-450, Brazil  
 Phone: +55 (31) 3582 8847  
 Fax: +55 (31) 3582 8987  
 E-mail: [sales@icombrasil.com](mailto:sales@icombrasil.com)

**Icom (UK) Ltd.**  
 Blacksole House, Altira Park,  
 Herne Bay, Kent, CT6 6GZ, U.K.  
 Phone: +44 (0) 1227 741741  
 Fax: +44 (0) 1227 741742  
 E-mail: [info@icomuk.co.uk](mailto:info@icomuk.co.uk)  
 URL: <http://www.icomuk.co.uk>

**Icom New Zealand**  
 39C Rennie Drive, Airport Oaks,  
 Auckland, New Zealand  
 Phone: +64 (09) 274 4062  
 Fax: +64 (09) 274 4708  
 E-mail: [inquiries@icom.co.nz](mailto:inquiries@icom.co.nz)  
 URL: <http://www.icom.co.nz>