

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



- 7 W output power plus new antenna provides 1.5 times*¹ more communication distance
- 1500 mW powerful audio and 1.5 times*² higher sound pressure
- Dust-protection, water resistance and a tough body (IP54 and MIL-STD 810G)
- 19 hours*³ 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

*¹ Wide open space. Approximate, comparing the IC-G86 with the IC-G80. Communication range may differ depending on operating environment or weather conditions, etc.
 *² Approximate, comparing the IC-G86 with the IC-G80.
 *³ 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 (TX/RX guaranteed range)	136–174 MHz (EX Hi power TX : 144–160 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 typical
RX (Max. audio)	450 mA typ. (INT SP), 200 mA typ. (EXT SP)
Dimensions (W×H×D) (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	7.0/5.5/2.5/0.5 W (EX Hi/Hi/Mid/Low)
Maximum frequency deviation	±5.0 kHz/±2.5 kHz (Wide/Narrow)
Spurious emissions	–80 dB typical
External microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2 kΩ
RECEIVER	
Sensitivity	–124 dBm typical
Squelch sensitivity	–126 dBm typical
Selectivity (Wide/Narrow)	75 dB typical/70 dB typical
Intermodulation	65 dB typical
Audio output power	
Internal speaker	1500 mW typical (with 8 Ω load)
External speaker	550 mW typical (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)





Supplied accessories :

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

Countermeasures against Counterfeit Products
 The "3D GENUINE Icom label" and "QR Code Genuineness Determination System" are attached for proof of authentication. Check the Icom website for details : <http://www.icom.co.jp/world/genuine-info/>



OPTIONS

BATTERY PACKS & CASE	Battery pack type	Capacity	Operating time*
 BP-298	Rechargeable Li-ion	2100 mAh (min.) 2250 mAh (typ.)	Up to 19 hours
 BP-299	Rechargeable Li-ion	3050 mAh (min.) 3150 mAh (typ.)	Up to 27 hours
 BP-264	Rechargeable Ni-MH	1400 mAh	Up to 12.5 hours
 BP-263	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

DESKTOP CHARGER
 BC-192 Regular charger for BP-264

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

MULTI-CHARGER
 BC-197* For BP-264

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

SPEAKER-MICROPHONES

 HM-168LWP Waterproof

 HM-158LA

 HM-159LA

EARPHONE-MICROPHONES

 HM-153LA

 HM-166LA

HEADSETS
 HS-94LWP*¹ Ear-hook type with a waterproof connector
 HS-95LWP*¹ Behind-the-head type with a waterproof connector
 HS-97*² Throat type


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


*¹ HS-94 and HS-95 also can be used with either VS-4LA or OPC-2004LA.
 *² Either the VS-4LA or OPC-2004LA is required when using the HS-97.

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 144–148 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

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