

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



5 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	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/Mid/Low) RX (Max. audio)	1.6/1.4/1.0/0.5 A 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	5.0/3.0/2.0/0.5 W (EX 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 External speaker	1500 mW (with 8 Ω load) 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*
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-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



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



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

EARPHONE-MICROPHONES



CHARGER BRACKET



For single chargers

CIGARETTE LIGHTER CABLE



For single chargers

DC POWER CABLES



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 lable" 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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