

The Next Generation of the IC-V80, with 7 W Output Power and 1500 mW Audio



7 W output power plus new antenna provides 1.5 times* more communication distance

* Wide open space. Approximate, comparing the IC-V86 with the IC-V80. Communication range may differ depending on operating environment or weather conditions, etc. 7 W output power is only for the IC-V86.

1500 mW powerful audio and 1.5 times* higher sound pressure

* Approximate, comparing the IC-V86 with the IC-V80.

Dust-protection, water resistance and a tough body (IP54 and MIL-STD 810G)

19 hours* of long lasting battery life

* EX Hi power with BP-298. TX : RX : standby = 5 : 5 : 90 (3 sec. : 3 sec. : 54 sec.) (The Power Save function is set to "P-S.16")

No PC programming necessary, settings changeable from the radio*

* PC programming is also available.

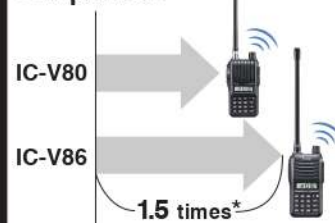
Durable BNC type antenna connector

Made in Japan quality and reliability

And More

- Audio volume/VFO mode/Memory channel mode can be changed with the rotary knob
- Supplied BC-240, battery charger with a charging control function that prolongs the life of the battery
- Integrated VOX function
- 200 memory channels, 1 Call channel and 6 scan edges
- Built-in CTCSS and DTCS encoder/decoder
- Priority, program, memory, skip and tone scanning

Communication distance comparison



* Wide open space



SPECIFICATIONS

GENERAL	IC-V86	IC-U86
Frequency range (TX/RX guaranteed range)	136–174 MHz (EX Hi power TX : 144–160 MHz)	EXP1 : 400–472 MHz (EX Hi power TX : 430–450 MHz) EXP2 : 330–400 MHz (EX Hi power TX : 335.4–380 MHz)
Type of emissions	F2D, F3E (FM, FM-N)	
Number of channels	207 channels (200 memory channels, 1 call channel and 6 scan edges)	
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)	1.6/1.4/1.0/0.5 A typical	EXP1: 1.6/1.5/1.0/0.5 A typ. EXP2: 1.6/1.4/0.9/0.5 A typ.
RX (Max. audio)	450 mA typ. (INT SP), 200 mA typ. (EXT SP)	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)	290 g, 10.2 oz (with BP-298, FA-B57U)
TRANSMITTER		
Output power (EX Hi/Hi/Mid/Low)	7.0/5.5/2.5/0.5 W	5.5/4.2/0.5 W
Maximum frequency deviation	±5.0 kHz/±2.5 kHz (Wide/Narrow)	
Spurious emissions	Less than –60 dB	
External microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2 kΩ	
RECEIVER		
Sensitivity	–124 dBm typical	EXP1: –121 dBm typical EXP2: –123 dBm typical
Squelch sensitivity	–126 dBm typical	EXP1: –123 dBm typical EXP2: –125 dBm typical
Selectivity (Wide/Narrow)	75 dB typical/70 dB typical	70 dB typical/68 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)
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Supplied accessories : (* May differ, depending on transceiver version)

- BP-298/BP-264, battery pack* ● BC-240, Desktop charger ● BC-242, AC adapter
- MB-124, belt clip ● 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	—	—

* EX Hi power, TX : RX : standby = 5 : 5 : 90 (3 sec. : 3 sec. : 54 sec.) (The Power Save function is set to "P-S.16")

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



EARPHONE-MICROPHONES



HEADSETS

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

*Either the VS-4LA or OPC-2004LA is required when using the HS-97



PTT SWITCH CABLE & PLUG ADAPTER CABLE

VS-4LA
For manual PTT operation
OPC-2004LA
For VOX operation



CIGARETTE LIGHTER CABLE



DC POWER CABLE



CHARGER BRACKET



BELT CLIP



ANTENNAS

FA-B45V 144–148 MHz
FA-B57V 160 MHz
FA-B57U 430–450 MHz
FA-B03U 330–380 MHz

PROGRAMMING CABLES

OPC-478UC Handheld to PC USB cable
OPC-474 Handheld to handheld

PROGRAMMING SOFTWARE

CS-V86 Programming software