

# The Next Generation of the IC-V80, with 5 W Output Power and 1500 mW Audio



### 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)

### 20.5 hours\* of long lasting battery life

\* 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



IC-V86



1500 mW  
powerful audio



IC-U86

**SPECIFICATIONS**

GENERAL	IC-V86	IC-U86
Frequency range (TX/RX guaranteed range)	136–174 MHz	EXP1 : 400–472 MHz EXP2 : 330–400 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 (Hi/Mid/Low)	1.4/1.0/0.5 A typical	EXP1: 1.5/1.0/0.5 A typical EXP2: 1.4/0.9/0.5 A typical
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)
<b>TRANSMITTER</b>		
Output power	5/2.5/0.5 W (Hi/Mid/Low)	5/2/0.5 W (Hi/Mid/Low)
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	
<b>RECEIVER</b>		
Sensitivity	–124 dBm typical	EXP1: –121 dBm typical EXP2: –123 dBm typical
Squelch sensitivity	–126 dBm typical	EXP1: –123 dBm typical EXP1: –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 20.5 hours
BP-299 Rechargeable Li-ion	3050 mAh (min.) 3150 mAh (typ.)	Up to 29 hours
BP-264 Rechargeable Ni-MH	1400 mAh	Up to 13 hours
BP-263 AA (LR6) batteries × 6	—	—

\* 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

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