



## VHF FM TRANSCEIVERS

**IC-V80**  
(U.S.A. Version)

**IC-V80E**  
(Europe Version)

# Rugged and Basic 2M with Powerful Audio!

Icom radios are built tough, and the IC-V80/E – Icom's most economical 2M – is no exception. This military rugged rig offers water resistance and superior protection against dust and dirt (IP54). Compact, rugged and with plenty of power, the IC-V80/E is ideal for basic, on-the-go ham operations.

### 750mW loud audio

The IC-V80/E uses the BTL (bridge-tied load) amplifier that doubles the audio output. The 36mm large speaker delivers 750mW of loud and intelligible audio\*. Great for noisy environments.

\* Typical value using with internal speaker.

### Powerful 5.5W of output power

The IC-V80/E offers a just-right mix of power and size. 5.5 watts of high power will work to get your message through. Get up to 19 hours\* of operating time with the Li-ion battery pack (BP-265) or 13 hours with the Ni-MH (BP-264). All that power comes in an easy to hold and use size – not too big, not too small.

\* Typical operation. 5:5:90 duty cycle with power save on.

### IP54 and MIL-STD-810 rugged construction

The dust protection and water-resistance equivalent to IP54 provides reliable operation for practical outdoor operation. The IC-V80/E tested to and passed 11 categories of MIL-STD-810 environmental tests.

### A total of 207 memory channels

The IC-V80/E has a total of 207 memory channels, including 200 regular channels, 6 scan edges and 1 call channel. The channel name is programmable with 5 characters for easy recognition.

### Built-in CTCSS/DTCS

The CTCSS and DTCS tone codes provide quiet stand-by and allow you to use tone-access repeaters. The pocket beep alerts you when a matching tone frequency is received. The tone scan detects the subaudible tone that is used for repeater access.

### Internal VOX function

The IC-V80/E has internal VOX (Voice Operated Transmit) function for convenient hands-free operation with a compatible optional headset and plug adapter cable. Also, the VOX gain and VOX delay time are adjustable.

### Other features

- WX channel and weather alert function (USA version only)
- Program, memory, skip, priority and tone scans
- Power save function
- BNC type antenna connector
- Automatic repeater function (USA version only)
- 1750Hz tone for European repeater access (IC-V80E only)
- TOT (time out timer) setting
- Repeater lockout and busy channel lockout
- PC programmable with optional CS-V80
- Transceiver-to-transceiver cloning (Optional)
- Direct keypad frequency entry
- DTMF autodial memories
- Auto power off
- LCD backlight
- Wide/narrow channel spacing



Dust Protection



Water Resistance



Transit Drop Test  
(Photo shows Image)



**SPECIFICATIONS**

GENERAL	
Frequency coverage IC-V80 (USA, Australia) IC-V80E (Europe, UK)	TX: 144–148 MHz, RX: 136–174 MHz* TX/RX: 144–146 MHz * Guaranteed range 144–148 MHz
Type of emissions	F2D, F3E (FM)
Number of channels	207 channels (include 6 scan edges and 1 call)
Antenna impedance	50 Ω (BNC)
Power supply requirement	7.2 V DC
Operating temperature range	–20 °C to +60 °C; –4 °F to +140 °F (Radio only)
Frequency stability	±2.5 ppm (–20 °C to +60 °C) at 25 °C
Current drain (approx.) Tx High (5.5 W) Rx Max. audio Internal SP External SP Stand-by/Power save	1.4 A typ. 310 mA typ. (16 Ω load) 180 mA typ. (8 Ω load) 65 mA/20 mA typ.
Dimensions (W × H × D) (Projections not included)	58 × 112 × 30 mm; 2.3 × 4.4 × 1.2 in
Weight (approx.)	140 g; 4.9 oz (without battery pack) 360 g; 12.7 oz (with BP-264 and FA-B2E)

TRANSMITTER	
Output power (at 7.2 V)	5.5/2.5/0.5 W (High/mid/low)
Max. frequency deviation	±5.0 kHz/±2.5 kHz (Wide/narrow)
Spurious emissions	Less than –60 dB
Ext. microphone connector	3-conductor 2.5 (d) mm (1/16")/2.2 kΩ

RECEIVER	
Sensitivity	0.14 μV typ. (at 12 dB SINAD)
Squelch sensitivity	0.1 μV typ. (threshold)
Selectivity	70 dB/50 dB typ. (Wide/narrow)
Intermodulation	70 dB/65 dB typ. (Wide/narrow)
Spurious and image rejection	75 dB typ.
Audio output power Internal SP External SP	750 mW typ. (16 Ω load) 450 mW typ. (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 810F	
	Method	Procedure
Low Pressure	500.4	I, II
High Temperature	501.4	I, II
Low Temperature	502.4	I, II
Temperature Shock	503.4	I
Solar Radiation	505.4	I
Rain Blowing/Drip	506.4	I, III
Humidity	507.4	–
Salt Fog	509.4	–
Dust Blowing	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

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

Ingress Protection Standard	
Dust & Water	IP54 (Dust-protection and water resistant)

**OPTIONS**

Some options may not be available in some countries. Please ask your dealer for details.



Battery packs	Type and capacity	Operating time* (Approx.)
BP-263	AA (LR6) batteries × 6	–
BP-264	Ni-MH, 7.2 V 1400 mAh	13 hours
BP-265	Li-Ion, 7.4 V 1850 mAh (min.) 2000 mAh (typ.)	19 hours

\* Tx: Rx: standby = 5:5:90. Power save function ON.

**REGULAR CHARGER**  
For BP-264 (Ni-MH battery)



BC-147S/BC-206S\*1 BC-192  
Charges the BP-264 in 16 hours (approx.).

**RAPID CHARGER**  
For BP-264 (Ni-MH battery)



BC-123S\*2 BC-191  
Charges the BP-264 in 2 hours (approx.).

**RAPID CHARGER**  
For BP-265 (Li-Ion battery)



BC-123S\*2 BC-193  
Charges the BP-265 in 2.5 hours (approx.).

\*1 BC-147SA for 120V AC. SV for 240V AC. BC-206SE for 230V AC. \*2 BC-123SA for 120V AC. SE for 230V AC. SV for 240V AC.

**MULTI-CHARGER**  
For BP-264/BP-265



BC-197 BC-157S

**CIGARETTE LIGHTER CABLE & POWER SUPPLY CABLES**



CP-23L For use with BC-191 or BC-193 OPC-515L For use with BC-191, BC-192 or BC-193 OPC-656 For use with BC-197

**HEADSETS and PLUG ADAPTER CABLE**



HS-94 Earhook type HS-95 Behind-the-head type HS-97 Throat type OPC-2004LA Required when using any of these headsets

**SPEAKER-MICROPHONES**



HM-158LA HM-159LA

**EARPHONE MICROPHONE**



HM-153LA

**CHARGER BRACKET**



MB-130 For use with BC-191, BC-192 or BC-193

**CS-V80 CLONING SOFTWARE**  
+ **OPC-478/UC CLONING CABLE**  
OPC-478UC is a USB cable type.  
**OPC-474 CLONING CABLE**  
Transceiver-to-transceiver cloning cable.  
**FA-B2E VHF ANTENNA**  
Same as supplied.  
**MB-124 BELT CLIP**  
Alligator type clip. Same as supplied.  
**CHARGER ADAPTERS**  
• **AD-120** for BP-264 • **AD-121** for BP-265  
Either AD-120 or AD-121 charger adapters are supplied with the BC-197, depending on BC-197's version.



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

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