

# 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.

### 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.

### 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.

### 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

### 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.



**SPECIFICATIONS**

**GENERAL**

- Frequency coverage :
 

Version	Tx	Rx (Working range)
USA, Australia	144-148MHz	136-174MHz*
Europe, UK	144-146MHz	144-146MHz

\* Guaranteed range 144-148MHz
- Type of emissions : F2D/F3E (FM)
- No. of memory Ch. : 207 (incl. 6 scan edges and 1 call)
- Operating Temp. range : -20°C to +60°C; -4°F to +140°F (Radio only)
- Frequency stability : ±2.5ppm (-20°C to +60°C) at 25°C
- Power supply requirement : 7.2V DC
- Current drain (at 7.2V DC):
 

	Tx	Rx
High (5.5W)	1.4A typical	310mA typ. (Internal SP, 16Ω load)
Max. audio	180mA typ. (External SP, 8Ω load)	65mA typical
Stand-by	20mA typical	
Power save		
- Antenna impedance : 50Ω (BNC)
- Dimensions (W×H×D) : 58 × 112 × 30 mm; (Projections not included) 2<sup>3</sup>/<sub>32</sub> × 4<sup>13</sup>/<sub>32</sub> × 1<sup>1</sup>/<sub>16</sub> in
- Weight (approx.) : 140g; 4.9oz (without battery pack) 360g; 12.7oz (with BP-264 and Ant.)

**TRANSMITTER**

- Output power (at 7.2V) : 5.5/2.5/0.5W (High/mid/low)
- Max. freq. deviation : ±5.0kHz/±2.5kHz (Wide/narrow)
- Spurious emissions : Less than -60dB
- External microphone : 3-conductor 2.5(d)mm (1/8")/2.2kΩ connector

**RECEIVER**

- Sensitivity : 0.14μV typical (at 12dB SINAD)
- Squelch sensitivity : 0.1μV typical (threshold)
- Selectivity : 70dB/50dB typical (Wide/narrow)
- Intermodulation : 70dB/65dB typical (Wide/narrow)
- Spurious and image rejection : 75dB typical
- Audio output power (at 10% distortion) : 750mW typ. (Internal SP, 16Ω load) 450mW typ. (External SP, 8Ω load)
- External speaker : 3-conductor 3.5(d) mm (1/8")/8Ω connector

All stated specifications are subject to change without notice or obligation.

**Applicable U.S. Military Specifications & IP Rating**

Standard	MIL 810 F	
	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	506.4	I, III
Humidity	507.4	-
Salt Fog	509.4	-
Dust	510.4	I
Vibration	514.5	I
Shock	516.5	I, IV

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

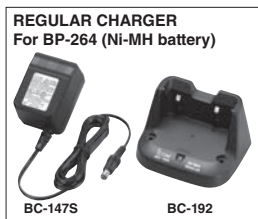
Ingress Protection Standard	
Dust & Water	IP54 (Dust-protection and water resistant)

**OPTIONS**

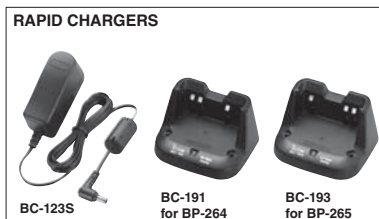
Some options may not be available in some countries. Please ask your dealer for details.



**BP-263 BATTERY CASE**  
Battery case for AA (LR6)×6 alkaline cells.  
**BP-264 7.2V/1400mAh Ni-MH BATTERY PACK**  
Provides 13 hours operating time\* (approx.).  
**BP-265 7.4V/1900mAh (min.), 2000mAh (typ.), Li-Ion BATTERY PACK**  
Provides 19 hours operating time\* (approx.). (\* Tx (Hi): Rx: standby=5:5:90, Power save on.)



**REGULAR CHARGER**  
For BP-264 (Ni-MH battery)  
**BC-147S\* AC ADAPTER**  
Charges the BP-264 in 16 hours (approx.).  
**BC-192 DESKTOP CHARGER + BC-147S\* AC ADAPTER**  
Charges the BP-264 in 16 hours (approx.).  
\* BC-123SA/BC-147SA for 120V AC. SE for 230V AC. SV for 240V AC.



**RAPID CHARGERS**  
**BC-191 DESKTOP CHARGER for BP-264 + BC-123S\* AC ADAPTER**  
The BC-191 charges the BP-264 in 2 hours (approx.).  
**BC-193 DESKTOP CHARGER for BP-265 + BC-123S\* AC ADAPTER**  
The BC-193 charges the BP-265 in 2.5 hours (approx.).



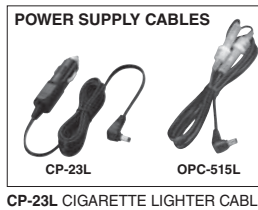
**BC-197 MULTI-CHARGER + BC-157S AC ADAPTER**  
Rapidly charges up to 6 BP-264 or BP-265 battery packs. Battery pack compatibility differs depending on installed charger adapter (AD-120 or AD-121). Charges the BP-264 in 2 hours (approx.) or the BP-265 in 2.5 hours. (approx.)



**SPEAKER-MICROPHONES**  
**HM-153L** : Durable earphone-microphone.  
**HM-158L** : Compact type speaker-microphone.  
**HM-159L** : Full size durable speaker-microphone.  
**SP-27** : Acoustic tube earphone.



**HEADSETS and PLUG ADAPTER CABLE**  
**HS-94** : Earhook headset with flexible boom microphone.  
**HS-95** : Behind-the-head headset with flexible boom microphone.  
**HS-97** : Throat microphone that fits around your neck and picks up speech vibrations.  
**OPC-2004** : Required when using any of these headsets.



**POWER SUPPLY CABLES**  
**CP-23L CIGARETTE LIGHTER CABLE**  
For use with the BC-191 or BC-193.  
**OPC-515L DC POWER CABLE**  
For use with the BC-191, BC-192 or BC-193.  
**OPC-656 DC POWER CABLE**  
For use with the BC-197.

**CS-V80 CLONING SOFTWARE + OPC-478/UC CLONING CABLE**  
Provides quick and easy programming of memory channel, names, etc. OPC-478UC is a USB type cable.  
**OPC-474 CLONING CABLE**  
Cloning cable for transceiver-to-transceiver data cloning.  
**FA-B2E VHF ANTENNA**  
Same as supplied.  
**MB-124 BELT CLIP**  
Same as supplied.  
**AD-120 CHARGER ADAPTER for BP-264**  
**AD-121 CHARGER ADAPTER for BP-265**  
Either AD-120 or AD-121 charger adapters are supplied with the BC-197, depending on version.

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