



VHF FM TRANSCEIVER

# IC-V80 SPORT



### ALKALINE POWERED

Comes with a AA size alkaline battery tray instead of battery and charger. Longer storage life, same power output. Perfect for your emergency kit.

## 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

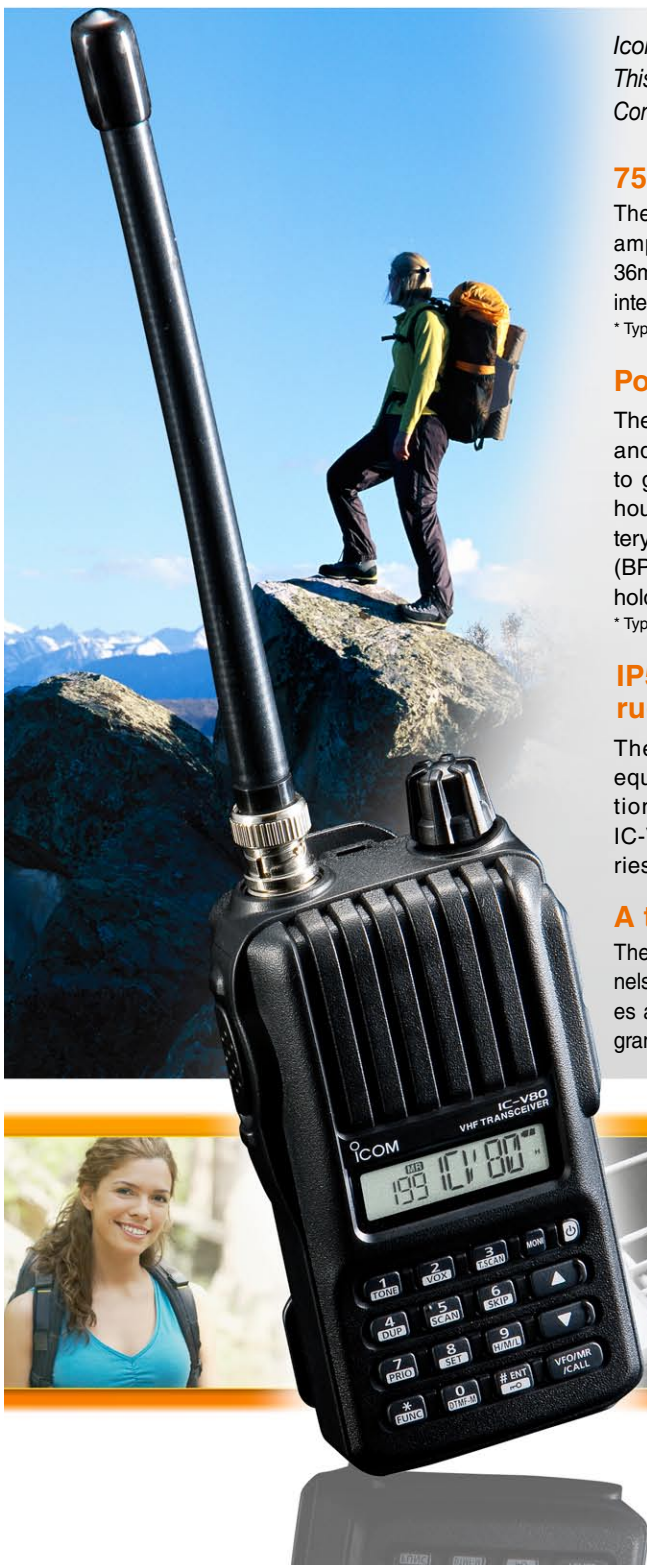
The CTCSS and DTCS tone codes provide quiet stand-by and allow you to use tone-access repeaters. The pocket beep alerts you when a matching tone frequency is received. The tone scan detects the subaudible tone that is used for repeater access.

### 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 memory channels
- Auto power off
- LCD backlight
- Wide/narrow channel spacing



Dust protection



Water resistance



Transit drop test (Photo shows image)

Icom America Inc.

**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 : 7.2V DC requirement
- Current drain (at 7.2V DC):
 

	High (5.5W)	1.4A typical
Tx	High (5.5W)	1.4A typical
Rx	Max. audio	310mA typ. (Internal SP, 16Ω load) 180mA typ. (External SP, 8Ω load)
	Stand-by	65mA typical
	Power save	20mA typical
- Antenna impedance : 50Ω (BNC)
- Dimensions (W×H×D) : 58 × 112 × 30 mm; (Projections not included) 2<sup>9</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 case)

**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 : 750mW typ. (Internal SP, 16Ω load) (at 10% distortion) 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	502.4-3	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 (H): Rx: standby=5:5:90, Power save on.)



- REGULAR CHARGER For BP-264 (Ni-MH battery)**
- BC-192 DESKTOP CHARGER + BC-147S AC ADAPTER**  
Charges the BP-264 in 16 hours (approx.).



- RAPID CHARGER For BP-264 (Ni-MH battery)**
- BC-191 DESKTOP CHARGER + BC-123S AC ADAPTER**  
Charges the BP-264 in 2 hours (approx.).



- RAPID CHARGER For BP-265 (Li-Ion battery)**
- BC-193 DESKTOP CHARGER + BC-123S AC ADAPTER**  
Charges the BP-265 in 2.5 hours (approx.).



- 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.



- HM-153L**: Durable earphone-microphone.
- HM-158L**: Compact type speaker-microphone.
- HM-159L**: Full size durable speaker-microphone.



- 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.



- MB-124**  
Alligator type clip. Same as supplied.

- CS-V80 CLONING SOFTWARE + OPC-478/UC CLONING CABLE**  
Provides quick and easy programming of memory channel, names, etc. OPC-478/UC is a USB cable type.
- OPC-474 CLONING CABLE**  
Cloning cable for transceiver-to-transceiver data cloning.
- FA-B2E VHF ANTENNA**  
Same as supplied.

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**Icom Inc.**

1-1-32, Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 www.icom.co.jp/world

**Count on us!**

Your local distributor/dealer:

**Icom America Inc.**

2380 116th Avenue NE, Bellevue, WA 98004, U.S.A.  
Phone: +1 (425) 454-8155  
Fax: +1 (425) 454-1509  
E-mail: sales@icomamerica.com  
URL: http://www.icomamerica.com

**Icom New Zealand**

146A Harris Road, East Tamaki, Auckland, New Zealand  
Phone: +64 (09) 274 4062  
Fax: +64 (09) 274 4708  
E-mail: inquiries@icom.co.nz  
URL: http://www.icom.co.nz

**Icom (UK) Ltd.**

Blacksale House, the Boulevard, Altra Business Park, Herne Bay, CT6 6GZ, U.K.  
Phone: +44 (0)1227 741741  
Fax: +44 (0)1227 741742  
E-mail: info@icomuk.co.uk  
URL: http://www.icomuk.co.uk

**Asia Icom Inc.**

6F No. 68, Sec. 1 Cheng-Teh Road, Taipei, Taiwan, R.O.C.  
Phone: +886 (02) 2559 1899  
Fax: +886 (02) 2559 1874  
E-mail: sales@asia-icom.com  
URL: http://www.asia-icom.com

**Icom Canada**

Glenwood Centre #150-6165 Highway 17, Delta, B.C., V4K 5B8, Canada  
Phone: +1 (604) 952-4266  
Fax: +1 (604) 952-0090  
E-mail: info@icomcanada.com  
URL: http://www.icomcanada.com

**Icom (Europe) GmbH**

Communication Equipment Auf der Krautweide 24 65812 Bad Soden am Taunus, Germany  
Phone: +49 (6196) 76685-0  
Fax: +49 (6196) 76685-50  
E-mail: info@icom-europe.com  
URL: http://www.icomeurope.com

**Icom France s.a.s.**

Zac de la Plaine, 1 Rue Brindejone des Moulins, BP 45804, 31505 Toulouse Cedex 5, France  
Phone: +33 (5) 61 36 03 03  
Fax: +33 (5) 61 36 03 00  
E-mail: icom@icom-france.com  
URL: http://www.icom-france.com

**Beijing Icom Ltd.**

10C07, Long Silver Mansion, No.88, Yong Ding Road, Haidian District, Beijing, 100039, China  
Phone: +86 (010) 5889 5391/5392/5393  
Fax: +86 (010) 5889 5395  
E-mail: bjicom@bjicom.com  
URL: http://www.bjicom.com

**Icom (Australia) Pty. Ltd.**

Unit 1 / 103 Garden Road, Clayton, VIC 3168 Australia  
Phone: +61 (03) 9549 7500  
Fax: +61 (03) 9549 7505  
E-mail: sales@icom.net.au  
URL: http://www.icom.net.au

**Icom Spain S.L.**

Ctra. Rubi, No. 88 "Edificio Can Castanyer" Bajos A 08174, Sant Cugat del Valles, Barcelona, Spain  
Phone: +34 (93) 590 26 70  
Fax: +34 (93) 589 04 46  
E-mail: icom@icomspain.com  
URL: http://www.icomspain.com

**Icom Polska**

81-850 Sopot, ul. 3 Maja 54, Poland  
Phone: +48 (58) 550 7135  
Fax: +48 (58) 551 0484  
E-mail: icompolska@icompolska.com.pl  
URL: http://www.icompolska.com.pl