



## 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.

### 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.

### 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.

### 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

### 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.



Dust Protection



Water Resistance



Transit Drop Test  
(Photo shows image)



**SPECIFICATIONS**

| GENERAL  |   |
|--|---|
| Frequency coverage<br>IC-V80 (USA, Australia)<br>IC-V80E (Europe, UK)  | TX: 144–148MHz, RX: 136–174MHz*<br>TX/RX: 144–146MHz<br>* Guaranteed range 144–148MHz |
| Type of emissions  | F2D, F3E (FM)   |
| Number of channels   | 207 channels (include 6 scan edges and 1 call)  |
| Antenna impedance  | 50Ω (BNC)   |
| Power supply requirement   | 7.2V DC   |
| Operating temperature 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  |
| Current drain (approx.)<br>Tx High (5.5W)<br>Rx Max. audio Internal SP<br>External SP<br>Stand-by/Power save | 1.4A typ.<br>310mA typ. (16Ω load)<br>180mA typ. (8Ω load)<br>65mA/20mA typ.          |
| Dimensions (W×H×D)<br>(Projections not included)   | 58 × 112 × 30 mm; 2.28 × 4.41 × 1.18 in   |
| Weight (approx.)   | 140g; 4.9oz (without battery pack)<br>360g; 12.7oz (with BP-264 and FA-B2E)           |

| TRANSMITTER               |                                    |
|---------------------------|------------------------------------|
| Output power (at 7.2V)    | 5.5/2.5/0.5W (High/mid/low)        |
| Max. frequency deviation  | ±5.0kHz/±2.5kHz (Wide/narrow)      |
| Spurious emissions        | Less than –60dB                    |
| Ext. microphone connector | 3-conductor 2.5(d)mm (1/10")/2.2kΩ |

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

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) |

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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!**

**Icom America Inc.**  
14241 Willows Road NE,  
Kirkland, WA 98034, U.S.A.  
Phone: +1 (425) 454-8155  
Fax: +1 (425) 454-1509  
E-mail: sales@icomamerica.com  
URL: http://www.icomamerica.com

**Icom Canada**  
Glenwood Centre #150-6165 Highway 17A,  
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 Brazil**  
Rua Ibororó, 444 Padre Eustáquio  
Belo Horizonte MG,  
CEP: 30130-150, Brazil  
Phone: +55 (31) 3582 8847  
Fax: +55 (31) 3582 8987  
E-mail: sales@icombrasil.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 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 Sp. z o.o.**  
80-286 Gdansk, Jaskowa Dolina St. 75, Poland  
Phone: +48 (58) 551 0484  
Fax: +48 (58) 551 4720  
E-mail: icompolska@icompolska.pl  
URL: http://www.icompolska.com.pl

**Icom (UK) Ltd.**  
Blacksole House, Altira Park,  
Herne Bay, Kent, 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

**Icom France s.a.s.**  
Zac de la Plaine,  
1 Rue Brindejonc des Moulains, 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

**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 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

**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

**Shanghai Icom Ltd.**  
No.101, Building 9, Caifuxingyuan Park,  
No.188 Maoting Road, Chedun Town,  
Songjiang District, Shanghai, 201611, China  
Phone: +86 (021) 6153 2768  
Fax: +86 (021) 5765 9987  
E-mail: bjicom@bjicom.com  
URL: http://www.bjicom.com

**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 x 6                     | –                         |
| BP-264        | Ni-MH, 7.2V 1400mAh                        | 13 hours                  |
| BP-265        | Li-Ion, 7.4V 1900mAh (min.) 2000mAh (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<sup>\*1</sup> BC-192  
Charges the BP-264 in 16 hours (approx.).

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



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

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



BC-123S<sup>\*2</sup> 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-2004 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.

**GENUINE** 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/>

Your local distributor/dealer:

**hamTECH**  
Naše kontaktné údaje:

**SOUND DESIGN s.r.o.**  
Pribišova 19/A  
841 05 Bratislava

**Teléfono: +421 2 65 45 65 45**  
**Mobil +421 918 246 789**  
**Email: hamtech@hamtech.sk**  
**Web: www.hamtech.sk**