



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 :

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 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) 2³/₃₂ × 4¹³/₃₂ × 1¹/₁₆ 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 (1/16")/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	502.4-3	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

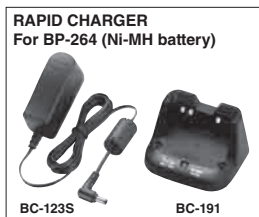
Some options may not be available in some countries. Please ask your dealer for details.



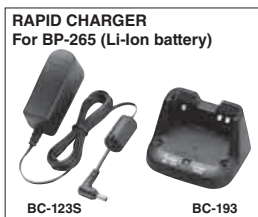
BP-263 BATTERY CASE
Battery case for AA (LR6)×6 alkaline cells.
BP-264 7.2V/1400mAh Ni-MH BATTERY PACK
Provides 13 hours operating time (approx.).
BP-265 7.4V/1900mAh (min.), 2000mAh (typ.), Li-Ion BATTERY PACK
Provides 19 hours operating time (approx.).
(Tx (Hi): Rx: standby=5:5:90, Power save on.)



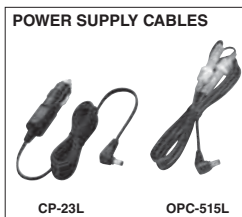
REGULAR CHARGER For BP-264 (Ni-MH battery)
BC-147S
BC-192 DESKTOP CHARGER + BC-147S AC ADAPTER
Charges the BP-264 in 16 hours (approx.).
* BC-123SA/BC-147SA for 120V AC. SE for 230V AC. SV for 240V AC.



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



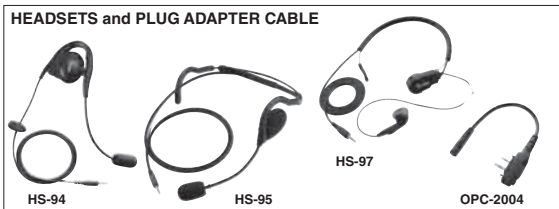
RAPID CHARGER For BP-265 (Li-Ion battery)
BC-123S
BC-193 DESKTOP CHARGER + BC-123S AC ADAPTER
Charges the BP-265 in 2.5 hours (approx.).



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-478UC is a USB cable type.
OPC-474 CLONING CABLE
Cloning cable for transceiver-to-transceiver data cloning.
FA-B2E VHF ANTENNA
Same as supplied.

Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in the United States, the United Kingdom, Germany, France, Spain, Russia, Japan and/or other countries. All other trademarks are the properties of their respective holders.

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.

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 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 (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>

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@icomeurope.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 (UK) Ltd.

Blacksole House, the Boulevard,
Altra Business Park, Herne Bay,
CT6 6GZ, U.K.
Phone: +44 (01227) 741741
Fax: +44 (01227) 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 Moulinais, 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 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>

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>

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>

Your local distributor/dealer: