

ICOM

VHF FM TRANSCEIVER

IC-V80

LM version

Tough body and powerful audio!



- 750mW* loud and intelligible audio with BTL amplifier and large 36mm speaker
* Typical value with internal speaker.
- Powerful 5.5W of output power
- IP54 and MIL-STD-810 rugged construction
- Large capacity Li-Ion battery pack provides 19 hours* of operating time
* Typical operation. 5:5:90 duty cycle with auto power save.
- Integrated VOX function
- 200 memory channels, 1 call channel and 6 scan edges
- Built-in CTCSS and DTCS encoder/decoder
- 5 character alphanumeric display
- Priority, program, memory, skip and tone scanning
- 16 DTMF autodial memories
- Repeater lockout and busy channel lockout
- Time-out-timer
- Power save function and auto power off
- PC programmable (With optional CS-V80)
- Transceiver-to-transceiver cloning (Optional)
- Wide/narrow channel spacing



Dust Protection



Water Resistance



Transit Drop Test
(Photo shows image)

SPECIFICATIONS

GENERAL	
Frequency coverage	136-174MHz*
* 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.)	
Tx High	1.4A typ.
Rx Max. audio Internal SP	310mA typ. (16Ω load)
External SP	180mA typ. (8Ω load)
Stand-by/Power save	65mA/20mA typ.
Dimensions (W×H×D)	58 × 112 × 30 mm; 2.28 × 4.41 × 1.18 in
(Projections not included)	
Weight (approx.)	140g; 4.9oz (without battery pack)
	360g; 12.7oz (with BP-264 and antenna)
TRANSMITTER	
Output power (at 7.2V)	5.0/2.5/0.5W (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	
Internal SP	750mW typ. (16Ω load)
External SP	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)



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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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.

12421 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 (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 Brindejonn 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>

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 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 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 (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>

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>

Icom Brazil

Rua Itororó, 444 Padre Eustáquio
Belo Horizonte MG,
CEP: 30720-450, Brazil
Phone : +55 (31) 3582 8847
Fax : +55 (31) 3582 8987
E-mail : sales@icombrasil.com

Icom (UK) Ltd.

Blacksloe 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 New Zealand

39C Rennie Drive, Airport Oaks,
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>

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*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-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 (for low band)
FA-B2F VHF ANTENNA (for high band)
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.

Your local distributor/dealer: