

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) (Projections not included)	58 × 112 × 30 mm; 2.28 × 4.41 × 1.18 in
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.

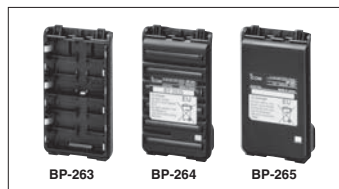
Ingress Protection Standard	
Dust & Water	IP54 (Dust-protection and water resistant)



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/>

## OPTIONS

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



Battery packs	Type and capacity	Operating time*
BP-263	AA (LR6) batteries × 6	-
BP-264	Rechargeable Ni-MH, 1400mAh	13 hours (Approx.)
BP-265	Rechargeable Li-ion, 1850mAh (min.) 2000mAh (typ.)	19 hours (Approx.)

\* 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\*1 BC-191  
Charges the BP-264 in 2 hours (approx.).

### RAPID CHARGER For BP-265 (Li-ion battery)



BC-123S\*1 BC-193  
Charges the BP-265 in 2.5 hours (approx.).

\*1 BC-123SA/BC-147SA for USA plug. BC-123SV/BC-147SV for Australia plug. BC-123SE/BC-206SE for Europe plug.

### 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-2004LA 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.

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