

ICOM

VHF FM TRANSCEIVER

# IC-V80

LM version

## Tough body and powerful audio!

Rugged  
**MIL-STD 810**

**IP54**

- 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)
- 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 typical (Internal SP, 16Ω load)
  - 180mA typical (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>19</sup>/<sub>32</sub> × 1<sup>1</sup>/<sub>16</sub> 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 (1/8")/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

**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)

All stated specifications are subject to change without notice or obligation.

**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**

**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.



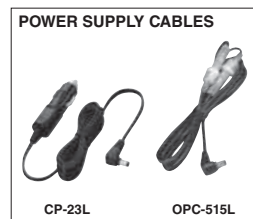
**RAPID CHARGER**  
For BP-264 (Ni-MH battery)  
**BC-123S**      **BC-191**

**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**

**BC-193 DESKTOP CHARGER + BC-123S\* AC ADAPTER**  
Charges the BP-265 in 2.5 hours (approx.).



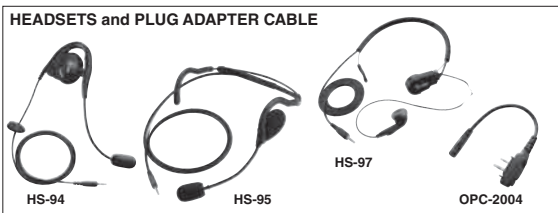
**POWER SUPPLY CABLES**  
**CP-23L**      **OPC-515L**

**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.



**SPEAKER-MICROPHONES**  
**HM-153L**      **HM-158L**      **HM-159L**

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



**HEADSETS and PLUG ADAPTER CABLE**  
**HS-94**      **HS-95**      **HS-97**      **OPC-2004**

**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.



**BELT CLIP**  
**MB-124**

**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.

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