

**ICOM**

VHF AND UHF TRANSCEIVERS

**IC-V86-T**  
**IC-V86**  
**IC-U86**

**5W Output Power and  
 1500 mW Audio**



**Very High output power plus new antenna provides 1.5 times\* more coverage**

\* Approximately, Wide open space. Communication range may differ depending on operating environment or weather conditions.

**More audio, 1500 mW audio output**

**IP54 and MIL-STD 810G; rugged design against dust, water, vibration and shock. Perfect for outdoor use.**

**19 hours\* of long lasting battery life**

\* EX Hi power with BP-298. TX : RX : standby = 5 : 5 : 90 (3 sec. : 3 sec. : 54 sec. )  
 (The Power Save function is set to "P-S.16")

**Durable BNC antenna connector**

**Made in Japan quality and reliability**

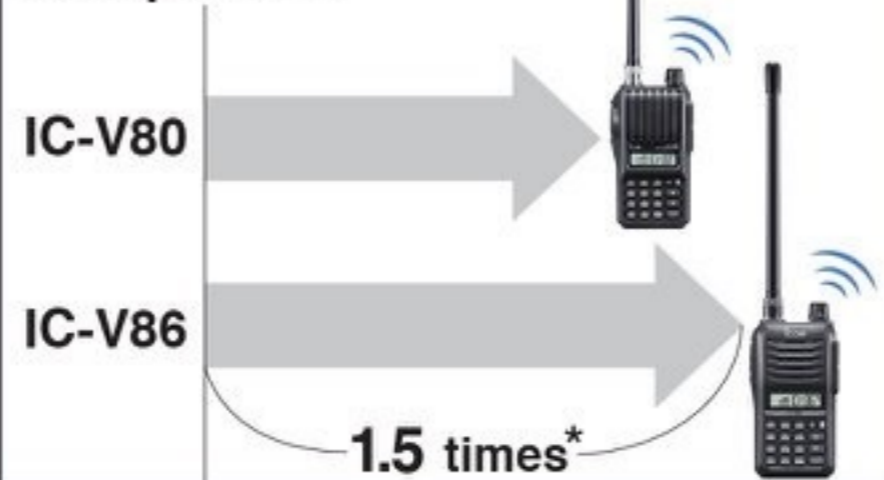
**And more**

- User selectable Volume Level, VFO/Memory Channel selection control
- Supplied BC-240, battery charger with a charging control function that prolongs the life of the battery
- Integrated VOX function
- 200 memory channels, 1 Call channel and 6 scan edges
- Built-in CTCSS and DTCSS encoder/decoder and Tone Scan
- Priority, program, memory, skip and tone scanning



IC-V86  
 IC-V86-T

**Coverage Area Comparison**



\* Wide open space



IC-U86



**SPECIFICATIONS**

GENERAL	IC-V86-T	IC-V86	IC-U86
Frequency range (Guaranteed range)	TX: 144-147 MHz RX: 144-147 MHz	TX: 144-148 MHz RX: 136-174 MHz	TX: 430-450 MHz RX: 400-472 MHz
Type of emissions	F2D, F3E (FM, FM-N)		
Number of channels	207 channels (200 memory channels, 1 call channel and 6 scan edges)		
Antenna impedance	50 Ω		
Power supply requirement	7.5 V DC		
Operating temperature range	-20 °C to +60 °C, -4 °F to +140 °F		
Frequency stability	±2.5 ppm (-20 °C to +60 °C, -4 °F to +140 °F)		
Current drain			
TX (EX Hi/Hi/Mid/Low)	1.4/1.2/1.0/0.5 A typical		1.6/1.5/1.0/0.5 A typical
RX (Max. audio)	450 mA typ. (INT SP), 200 mA typ. (EXT SP)		450 mA typ. (INT SP), 200 mA typ. (EXT SP)
Dimensions (WxHxD) (Projections not included)	58.6 × 112 × 30.5 mm, 2.3 × 4.4 × 1.2 in (with BP-298)		
Weight (Approximate)	300 g, 10.6 oz (with BP-298, FA-B57V)	290 g, 10.2 oz (with BP-298, FA-B57U)	
<b>TRANSMITTER</b>			
Output power	5.0/3.5/2.5/0.5 W (EX Hi/Hi/Mid/Low)		5/4/2/0.5 W (EX Hi/Hi/Mid/Low)
Maximum frequency deviation	±5.0 kHz/±2.5 kHz (Wide/Narrow)		
Spurious emissions	Less than -60 dB		
External microphone connector	3-conductor 2.5 (d) mm (1/10")/2.2 kΩ		
<b>RECEIVER</b>			
Sensitivity	0.16 μV	0.12 μV	
Squelch sensitivity	0.14 μV	0.16 μV	
Selectivity (Wide/Narrow)	70 dB		70 dB
Intermodulation	65 dB		
Audio output power	1500 mW typical (with 8 Ω load)		
Internal speaker	550 mW typical (with 8 Ω load)		
External speaker connector	3-conductor 3.5 (d) mm (1/8")/ 8 Ω		

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

**Applicable U.S. Military Specifications & IP Rating**

Standard	MIL 810G	
	Method	Procedure
Low Pressure	500.5	I, II
High Temperature	501.5	I, II
Low Temperature	502.5	I, II
Temperature Shock	503.5	I-C
Solar Radiation	505.5	I
Rain Blowing/Drip	506.5	I, III
Humidity	507.5	II
Salt Fog	509.5	-
Dust Blowing	510.5	I
Vibration	514.6	I
Shock	516.6	I, IV

Also meets equivalent MIL-STD-810-C, -D, -E and -F.

Ingress Protection Standard	
Dust and Water	IP54 (Dust-protection, water resistance)

- Supplied accessories :** (\* May differ, depending on transceiver version)
- BP-298/BP-264 battery pack
  - BC-240, desktop charger
  - BC-242, AC adapter
  - MB-124, belt clip
  - Antenna\*

**Countermeasures against Counterfeit Products**

The "3D GENUINE Icom label" and "QR Code Genuineness Determination System" are attached for proof of authentication. Check the Icom website for details : <http://www.icom.co.jp/world/genuine-info/>



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**OPTIONS**

BATTERY PACKS & CASE		Battery pack type	Capacity	Operating time*
	BP-298	Rechargeable Li-ion	2100 mAh (min.) 2250 mAh (typ.)	Up to 19 hours
	BP-299	Rechargeable Li-ion	3050 mAh (min.) 3150 mAh (typ.)	Up to 27 hours
	BP-264	Rechargeable Ni-MH	1400 mAh	Up to 12.5 hours
	BP-263	AA (LR6) batteries x 6	—	—

\* EX Hi power. TX : RX : standby = 5 : 5 : 90 (3 sec. : 3 sec. : 54 sec.) (The Power Save function is set to "P-S.16")

**RAPID CHARGERS**  
**BC-240** Rapid charger for BP-298/BP-299  
**BC-191** Rapid charger for BP-264

**DESKTOP CHARGER**  
**BC-192** Regular charger for BP-264

**MULTI-CHARGER**  
**BC-214N\*** For BP-298/BP-299

**MULTI-CHARGER**  
**BC-197\*** For BP-264

\* The AD-139/AD-120 charger adapters are supplied with the BC-214N/BC-197, depending on the charger version.

**SPEAKER-MICROPHONES**

**HM-168LWP** Waterproof

**HM-158LA** **HM-159LA**

**EARPHONE-MICROPHONES**

**HM-153LA** **HM-166LA**

**HEADSETS**

**HS-94LWP** Ear-hook type with a waterproof connector  
**HS-95LWP** Behind-the-head type with a waterproof connector  
**HS-97\*** Throat type

\* Either the VS-4LA or OPC-2004LA is required when using the HS-97

**PTT SWITCH CABLE & PLUG ADAPTER CABLE**

**VS-4LA**  
For manual PTT operation  
**OPC-2004LA**  
For VOX operation

**CIGARETTE LIGHTER CABLE**  
**CP-23L**

**DC POWER CABLE**

**OPC-656** **OPC-515L**

**CHARGER BRACKET**  
**MB-130**

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

**ANTENNAS**

**FA-B45V** 144-148 MHz  
**FA-B57V** 160 MHz  
**FA-B57U** 430-450 MHz

**PROGRAMMING CABLES**

**OPC-478UC** Handheld to PC USB cable  
**OPC-474** Handheld to handheld

**PROGRAMMING SOFTWARE**  
**CS-V86** Programming software

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