

 ICOM

VHF AND UHF TRANSCEIVERS

**IC-V82**  
**IC-U82**

144MHz General (LM) version

430MHz General (LM) version

**DIGITAL**

With optional UT-118  
or UT-114

Rugged  
**MIL-STD 810**



IC-U82

IC-V82

**High Power!**  
**Digital Capability!**  
**Power to Go Anywhere!**

- Powerful 7W of output power\*  
\* 5W for UHF
- Optional Digital unit, UT-114  
— Digital selective calling, digital voice scrambler and short data message capabilities
- Tough construction and Simple operation
- 200 memory channels, 1 call channel and 6 scan edges
- 10 memory banks and bank link scan
- 5 character alphanumeric display
- Priority, program, memory, skip and tone scanning
- Built-in CTCSS and DTCSS encoder/decoder
- 16 DTMF autodial memories
- Variety of battery packs/case available  
— Ni-Cd, Ni-MH, Li-Ion and alkaline cells
- Optional DTMF decoder unit, UT-108 offers ANI and pager functions
- Optional voice scrambler unit, UT-109 or UT-110

icom Inc.



SPECIFICATIONS

GENERAL

- Frequency coverage :
  - IC-V82 136-174MHz\*1
  - IC-U82 400-479MHz\*2
  - Guaranteed range \*1 144-148MHz, \*2 430-440MHz
- Mode : F3E, F2D, F7W\*
  - \* Optional UT-114/UT-118 required.
- No. of memory Ch. : 207 (incl. 6 scan edges and 1 call)
- Operating Temp. range : -10°C to +60°C; +14°F to +140°F
- Frequency stability : ±2.5ppm (-10°C to +60°C)
- Power supply : 7.2V DC (6.0-10.3V DC accept-requirement able; Icom's battery pack only)
- Current drain (at 7.2V DC):

		IC-V82	IC-U82
Tx	High (7W/5W)	2.6A	2.0A
	Max. audio	250mA	250mA
Rx	Standby	80mA	80mA
	Power save	30mA	30mA

- Antenna impedance : 50Ω (BNC)
- Dimensions (W×H×D) : 54 × 139 × 36.7 mm;

- (Projections not included) 2 1/8 × 5 1/2 × 1 1/16 in
- Weight (approx.) : 390g; 13.8oz (w/ant. and BP-222N)

TRANSMITTER

- Output power (at 7.2V DC):
  - IC-V82 7.0/4.0/0.5W (High/mid/low)
  - IC-U82 5.0/2.0/0.5W (High/mid/low)
- Spurious emissions : Less than -60dBc
- Max. freq. deviation : ±5.0/±2.5kHz (Wide/narrow)
- Ext. microphone connector : 3-conductor 2.5(d)mm (1/10") /2.2kΩ

RECEIVER

- Intermediate freq. : 46.35MHz/450kHz (1st/2nd)
- Sensitivity : 0.16μV (typ.; at 12dB SINAD)
- Squelch sensitivity : 0.11μV (typ.; threshold)
- Selectivity : More than 55/50dB (wide/narrow)
- Spurious and image rejection : 80dB (typ.; VHF) 70dB (typ.; UHF)

- Intermodulation : 65dB (typ.)
- Audio output power : 300mW with an 8Ω load
- Ext. speaker connector : 3-conductor 3.5(d)mm (1/8")/8Ω
- Ext. Data connector : 3-conductor 2.5(d)mm (1/10")

Applicable U.S. Military Specifications

Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Rain Drip	506.1	II	506.2	II	506.3	II	506.4	III
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	-
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-
Dust Blowing	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

Supplied accessories

- Battery case or battery pack\* ● Desktop charger\*
- Antenna ● Belt clip \*depending on version

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

OPTIONS

Battery Pack	BP-208N	BP-209N Ni-Cd	BP-210N	BP-211N
Capacity	7.2V/1100mAh	7.2V/1650mAh	7.2V/1650mAh	7.4V/1800mAh
Cell Type	AA (LR6)	Ni-MH	Ni-MH	Ni-MH
Batteries × 6	7.2V/600mAh	7.2V/600mAh	7.2V/600mAh	7.4V/600mAh

BATTERY PACKS AND CASE	BP-208N	BP-209N	BP-210N	BP-211N	BP-222N	BATTERY LIFE	
						VHF (7W)	UHF (5W)
	-	3 h 20 min	6 hours	6 h 10 min	2 h 15 min	-	-
	-	3 h 40 min	7 hours	8 h 15 min	2 h 50 min	-	-

Battery life is approx. time; Tx (H): Rx: standby=1:1; 8 power save function when set at auto.

**REGULAR CHARGER**

▼BC-147A/E  
▲BC-146

**BC-146 DESKTOP CHARGER + BC-147A/E AC ADAPTER**  
Charges the Ni-Cd or Ni-MH battery pack, BP-209N, BP-210N, BP-222N with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. The BC-147 AC adapter is additionally required. Cannot charge Li-Ion battery pack, BP-211N.

**RAPID CHARGERS**

▼BC-145 A/E/V  
▲BC-144N  
▲BC-121N+AD-101 (6 pcs.)  
▼BC-157

**BC-144N DESKTOP CHARGER + BC-145A/E/V AC ADAPTER**  
For rapid charging of battery pack, BP-209N, BP-210N or BP-222N. An AC adapter, BC-145, is supplied with the charger depending on version. Charging time: 1.5 to 2 hours. Cannot charge Li-Ion battery pack, BP-211N.  
**BC-119N+AD-101+BC-145A/E/V** Rapidly charges BP-211N as well as other battery packs.  
**BC-121N MULTI-CHARGER + AD-101 CHARGER ADAPTER + BC-157 AC ADAPTER**  
For rapid charging of up to 6 battery packs (including BP-211N) in 1.5 to 2 hours. Six AD-101s are required.  
**OPC-656 DC POWER CABLE;** For use with the BC-121N. (12-20 V DC required)

**SPEAKER-MICROPHONES**

▼HM-153L  
▲HM-75A HM-158L

- HM-75A** : Allows you to remotely select operating channel, etc., according to program.
- HM-158L** : Compact and durable body with screw-type connector. Equipped with an earphone jack and a revolving clip.
- HM-153L** : Durable earphone-microphone with revolving clip.

**HEADSETS and PTT/VOX UNIT**

▼HS-94  
▲HS-95  
▲VS-1L  
▲HS-97

- HS-94** : Earhook headset with flexible boom microphone.
- HS-95** : Behind-the-head headset with flexible boom microphone.
- HS-97** : Throat microphone fits around your neck and picks up speech vibration.
- VS-1L** : PTT/VOX unit. Required when using these headsets with the transceiver.
- HS-85** : Includes VOX, PTT and "one-touch" PTT with a time-out timer.

**INTERNAL UNITS**

▲AUT-114

- UT-108 DTMF DECODER**  
Provides DTMF decode and ANI capabilities.
- UT-109/UT-110 VOICE SCRAMBLER UNITS**  
Provides operating security.  
UT-109: Non rolling type.  
UT-110: Rolling type.
- UT-114/UT-118 DIGITAL UNITS**  
UT-114: With voice scrambler.  
UT-118: Without voice scrambler.

- CS-V82 CLONING SOFTWARE + OPC-478/U CLONING CABLE**  
Provides quick and easy programming of memory channel, names, etc. OPC-478U is USB cable type.
- OPC-474 CLONING CABLE**  
Use for transceiver-to-transceiver data cloning.
- MB-86/MB-103 BELT CLIPS**  
MB-103: Alligator type clip. Same as supplied.  
MB-86: Swivel belt clip.
- MB-96N/MB-96F LEATHER BELT HANGERS**  
MB-96N: Swivel belt hanger.  
MB-96F: Fixed type belt hanger. Use with MB-103.
- SP-13 EARPHONE**  
Provides clear audio even in noisy environments.

Icom Inc.

1-1-32, Kamiminami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013 URL: <http://www.icom.co.jp/world/index.html>

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](mailto:sales@icomamerica.com)  
URL : <http://www.icomamerica.com>

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](mailto:inquiries@icom.co.nz)  
URL : <http://www.icom.co.nz>

Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.  
Phone : +44 (0)1227 741741  
Fax : +44 (0)1227 741742  
E-mail : [info@icomuk.co.uk](mailto:info@icomuk.co.uk)  
URL : <http://www.icomuk.co.uk>

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](mailto:sales@asia-icom.com)  
URL : <http://www.asia-icom.com>

Your local distributor/dealer:

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](mailto:info@icomcanada.com)  
URL : <http://www.icomcanada.com>

Icom (Europe) GmbH

Communication Equipment Himmelgeister Str. 100, D-40225 Düsseldorf, Germany  
Phone : +49 (0211) 346047  
Fax : +49 (0211) 333639  
E-mail : [info@icom-europe.com](mailto:info@icom-europe.com)  
URL : <http://www.icomeurope.com>

Icom France S.a

Zac de la Plaine, 1, Rue Brindejone des Moulains BP 5804, 31505 Toulouse Cedex, France  
Phone : +33 (5) 61 36 03 03  
Fax : +33 (5) 61 36 03 00  
E-mail : [icom@icom-france.com](mailto:icom@icom-france.com)  
URL : <http://www.icom-france.com>

Beijing Icom Ltd.

10007, 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](mailto:bjicom@bjicom.com)  
URL : <http://www.bjicom.com>

Icom (Australia) Pty. Ltd.

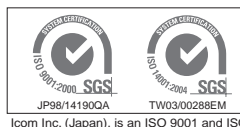
A.B.N. 88 006 092 575  
Unit 1 / 103 Garden Road, Clayton VIC 3168 Australia  
Phone : +61 (03) 9549 7500  
Fax : +61 (03) 9549 7505  
E-mail : [sales@icom.net.au](mailto:sales@icom.net.au)  
URL : <http://www.icom.net.au>

Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer" 08190, Sant Cugat del Valles, Barcelona, Spain  
Phone : +34 (93) 590 26 70  
Fax : +34 (93) 589 04 46  
E-mail : [icom@icomspain.com](mailto:icom@icomspain.com)  
URL : <http://www.icomspain.com>

Icom Polska

Sopot, 3 maja 54, Poland  
Phone : +48 (58) 550 7135  
Fax : +48 (58) 551 0484  
E-mail : [icompolska@icompolska.com.pl](mailto:icompolska@icompolska.com.pl)  
URL : <http://www.icompolska.com.pl>



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