



VHF AND UHF TRANSCEIVERS

IC-V82 144MHz

IC-U82 430(440)MHz

DIGITAL

With optional UT-118

Rugged
MIL-STD 810

High Power
7W
IC-V82



IC-U82

IC-V82

High Power! Digital Capability! Power to Go Anywhere!

Optional digital unit, UT-118

The optional UT-118 provides D-STAR format digital voice and slow data communication. The UT-118 includes the following digital features.

Callsign calling

In the digital mode, your callsign and the receiving callsign (or CQ message) are included in each transmission. The callsign squelch allows you to choose an incoming call selected by the callsign. Also, received callsigns are automatically stored in the memory.

Position exchange with external GPS receiver

When connected to an external GPS receiver*, position information can be exchanged with other stations. When the receiving side is connected to a PC**, position monitoring is possible.

* NMEA 0183 output and RS-232C interface are required.

** Position mapping software required (Not supplied by Icom).

DX communication over the D-STAR system

The D-STAR repeaters for 144, 440MHz are now available. It allows cross band (144/440/1200MHz) operation and long distance communication over the D-STAR system.

7W powerful output power

A powerful 7W* output power provides superior transmit power. All this power is available with the supplied battery pack. Reduced power settings also allow you to adapt to the communication conditions and provide longer operating time.

* 5W for UHF.

200 memory channels and 10 memory banks

Up to 200 regular memory channels can be stored with a 6-character channel name, tone and duplex settings. The memory channels can be tagged with A-J bank name and allows you easy channel management. In addition, use Icom's exclusive DMS (Dynamic Memory Scan) system to scan selected memory banks by simply adding and deleting bank links.

Built-in CTCSS/DTCS

Built-in CTCSS/DTCS tone codes provide quiet stand-by and allow you to access a closed repeater. The pocket beep alerts you when a matched tone frequency is received. The tone scan detects the tone frequency used in the receiving frequency.

Other features

- NOAA weather channel receive * (* IC-V82 USA version only)
- Automatic repeater function (USA version only)
- Reversible control knob and up/down buttons assignment
- Durable construction and simple operation
- 16 DTMF dial memory
- PC cloning capability

Icom Inc.

SPECIFICATIONS

GENERAL

• Frequency coverage (unit : MHz):

Version	IC-V82	IC-U82
USA	Tx 144-148 Rx 136-174*	Tx 420-450** Rx 400-479**
Europe	144-146	430-440

- Guaranteed range *1 144-148MHz, ** 440-450MHz
- Mode : F3E, F2D, F7W*
* Optional 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 requirement : 7.2V DC (6.0-10.3V DC acceptable; Icom's battery pack only)
- Current drain (at 7.2V DC):

	IC-V82	IC-U82
Tx	High (7W/5W) : 2.6A	2.0A
Rx	Max. audio : 250mA	250mA
	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)
- External microphone connector : 3-conductor 2.5(d)mm (1/16")
/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 (1/16")

Applicable U.S. Military Specifications

The Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

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	502.4-3	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

BP-208N AA (LR6) batteries × 6

BP-209N Ni-Cd 7.2V/1100mAh

BP-210N Ni-MH 7.2V/1650mAh

BP-211N Li-Ion 7.4V/1800mAh

BP-222N Ni-Cd 7.2V/600mAh

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

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

SPEAKER-MICROPHONES

HM-158L ▶

HM-75A ◀

HM-159L ▶

HM-166L ▶

- HM-158L** : Compact and durable body with screw-type connector.
- HM-159L** : Full size durable speaker microphone.
- HM-75A** : Allows you to remotely select operating channels, etc
- HM-166L** : Light-weight earphone microphone with revolving clip.
- HM-128L** : Light weight and compact earphone-microphone.

REGULAR CHARGER

BC-146 ▶

BC-147A/E ▼

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-144N ▶

BC-145 A/E/V ▼

BC-157 ▼

BC-121N+AD-101 (6 pcs.) ▶

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. (12-20V DC required)

HEADSETS and PTT/VOX UNIT

HS-94 ▼

HS-95 ▶

HS-97 ▶

VS-1L ▶

- 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** : Required when using these headsets with the transceiver.
- HS-85** : For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.

INTERNAL UNITS

UT-118 ▶

- UT-108 DTMF DECODER**
Provides DTMF decode and pager capabilities.
- UT-118 DIGITAL UNIT**
Provides digital voice and data capability at 4.8kbps (Voice + Data).

- CS-V82 CLONING SOFTWARE + OPC-478 CLONING CABLE**
Provides quick and easy programming of memory channel, names, etc.
- 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.

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