



## VHF AND UHF TRANSCEIVERS

**IC-V82** 144MHz

**IC-U82** 430(440)MHz



### 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).

#### And more digital features

- 20-character short data message
- Digital code squelch
- Digital pocket beep
- EMR communication
- Stand-by beep

#### 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*1	Tx 420-450*2 Rx 400-479*2
Europe	144-146	430-440

Guaranteed range \*\* 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 : 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 1/4 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 : 3-conductor 2.5(d)mm (1/16")  
connector /2.2kΩ

**Supplied accessories**

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

**RECEIVER**

- Receiving system : Double conversion super-heterodyne
- 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)
- Intermodulation : 65dB (typ.)
- Spurious and image rejection : 80dB (typ.; VHF)  
70dB (typ.; UHF)
- 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")

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

**OPTIONS**

	BP-208N	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
AA (LR6) batteries × 6					

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

**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-124

**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-124 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-75A ▲HM-131L

- HM-75A** : Allows you to remotely select operating channel, etc., according to program.
- HM-131L** : Compact and durable body. Equipped with an earphone jack and a revolving clip.
- HM-128L** : Lightweight earphone-microphone.

**HEADSETS and PTT/VOX UNIT**

▼HS-94 ▲HS-95 ▲HS-97 ▲VS-1L ▲HS-85

- 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** : 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/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.

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