



ICOM

144MHz FM TRANSCEIVER

# IC-V8



## Quality, simplicity, anywhere

### Tough construction

The green polycarbonate front panel and aluminum die-cast chassis provide durability. The 54(W)×132(H)×35(D)mm\* compact ergonomic body is easy for carrying anywhere.

\* 2 $\frac{1}{8}$ (W)×5 $\frac{3}{16}$ (H)×1 $\frac{3}{8}$ (D)in.

### 16 button keypad for easy-to-access functions

The function guidance is labeled on the 16 buttons. It's easy to manage all of the functions equipped on the IC-V8 by pushing the Function key and shortcut keys. In addition, a channel number or an operating frequency can be entered from the keypad directly.

### Powerful 5.5W of output power

The IC-V8 generates a powerful 5.5W output with Ni-Cd or Ni-MH battery packs, ensuring you a wide communication range.

### Reversible up/down switches and rotary selector

Channel selection, volume, squelch and subaudible tones can be assigned to the up/down switches or rotary selector at your convenience.

### 5-character alphanumeric display

Letters and numeral character names provide easy recognition of each channel. S-meter, output power, power save, keylock, tone and duplex setting icons show various operating status at glance.

### 100 memory channels and one call channel

Up to 100 of your favorite frequencies can be stored into the memory with channel name, tone, output power and duplex setting. Furthermore, one call channel provides one touch channel access for a frequently used frequency.

### CTCSS and DTCS operation standard

50 CTCSS and 104×2 DTCS tone squelch operation codes (encoder and decoder) provide quiet standby and allow you to access closed repeater. Pocket beep keeps track of calls, and tone scan detects the subaudible tone in the receiving signals.

### Standard DTMF encoder and optional DTMF decoder

5 DTMF memory channels with up to 24 DTMF codes allow remote operation. The optional DTMF decoder unit, UT-108, provides code squelch operation and pager function.

### Other features

- Set mode and initial set mode menu ensure easy operation
- Very fast scanning speed of 40 channels per second (During program scanning)
- Mic. simple remote control with optional HM-75A
- LED backlighting for LCD
- PC cloning capability
- Reverse shift function
- Auto squelch delay

Icom Inc.

SPECIFICATIONS

GENERAL

- Frequency coverage : Tx 144-148MHz  
Rx 136-174MHz\*  
\*Guaranteed range 144-148MHz
- Mode : FM (F3E, F2D)
- No. of memory Ch. : 107 (incl. 6 scan edges and 1 call)
- Frequency stability : ±10ppm (-10°C to +60°C)
- Operating temperature range:  
-10°C to +60°C; +14°F to +140°F
- Power supply requirement : 7.2V DC (6.0-10.3V DC acceptable; Icom's battery pack only)
- Current drain (at 7.2V DC):

Tx	5.5W	2.0A
	0.5W	0.8A
Rx	Max. audio	250mA
	Standby	70mA
	Power saved	20mA

- Antenna connector : BNC (50Ω)
- Dimensions : 54(W)×132(H)×35(D) mm;  
2 1/8(W)×5 3/16(H)×1 3/8(D) in
- Weight (approx.) : 350g; 12.3oz (w/ant. and BP-222)

TRANSMITTER

- Output power : High 5.5W  
(at 7.2V DC) Low 0.5W
- Spurious emissions : Less than -60dB
- Max. freq. deviation : ±5.0kHz
- Ext. mic. connector : 3-conductor 2.5(d)mm (1/16")  
/2.2kΩ

RECEIVER

- Receiving system : Double conversion super-heterodyne
- Intermediate freq. : 1st 21.7MHz  
2nd 450kHz
- Sensitivity : 0.16μV (typ.; at 12dB SINAD)
- Squelch sensitivity : 0.10μV (typ.; threshold)
- Selectivity : 65dB (typical)
- Intermodulation : 75dB (typical)
- Spurious and image rejection: 75dB (typical)

- Audio output power : 300mW with an 8Ω load  
(at 7.2V DC)
- Ext. SP connector : 3-conductor 3.5(d)mm (1/8")/8 Ω

Supplied accessories

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

Applicable U.S. Military Specifications

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	506.1	I, II	506.2	I, II	506.3	I, II	506.4	I, II
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	-
Salt Fog	508.1	I	508.2	I	508.3	I	508.4	-
Dust	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

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

OPTIONS

BATTERY PACKS AND CASE

BP-208N AA (LR6) batteries × 6	BP-209N Ni-Cd 7.2V/1100mAh	BP-210N Ni-MH 7.2V/1650mAh	BP-222N Ni-Cd 7.2V/600mAh
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BATTERY PACKS AND CASE	BP-208N	BP-209N	BP-210N	BP-222N
OUTPUT POWER	5.5W typ.*	5.5W typ.	5.5W typ.	5.5W typ.
BATTERY LIFE	-	7.5hours	11hours	4.0hours

Approx. battery life; Tx (H); Rx: standby=5:5:90 with auto power save  
\*The LOW output power selection is recommended.

REGULAR CHARGER



BC-146 DESKTOP CHARGER + BC-147A/E AC ADAPTER  
Charges a battery pack, BP-209N, BP-210N or BP-222N with/without transceiver in 12, 18.5, 6.5 hours (approx.), respectively. BC-137 is also available for regular charging.

RAPID CHARGER



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. BC-119N is also available for rapid charging.  
BC-121N MULTI-CHARGER + AD-94 (Ver. 11) DESKTOP CHARGER ADAPTER + BC-157 AC ADAPTER  
For rapid charging of up to 6 battery packs (Six AD-94s are required), BP-209N, BP-210N or BP-222N. An AC adapter, BC-157, may be supplied, depending on version. Charging time: 1.5 to 2 hours.

SPEAKER-MICROPHONES



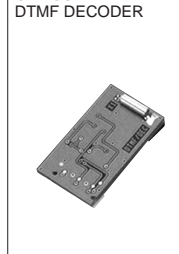
- HM-46L: Slim dimensions. Equipped with an earphone jack and a transmit indicator.
- HM-75A: Allows you to remotely select operating channel, etc., according to program.
- HM-158L: Compact and durable body with screw-type connector. Equipped with an earphone jack and a revolving clip.

HS-51 HEADSET



For hands-free operation. Includes VOX, PTT and "one-touch" PTT with a time-out timer.

UT-108 DTMF DECODER



Provides DTMF decode capability with code squelch and pager operation.

CS-V8 CLONING SOFTWARE

- + OPC-478 CLONING CABLE  
Provides quick and easy programming of memory channel, memory names, etc.
- 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.
- OPC-474 CLONING CABLE  
Used for transceiver-to-transceiver data cloning.
- OPC-656 DC POWER CABLE  
For use the BC-121N with a DC power supply.
- SP-13 EARPHONE  
Provides clear audio even in noisy environments.

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