

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 $\frac{1}{4}$ (W)×5 $\frac{3}{4}$ (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 DTCSS 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

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## 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 :  $\pm 10\text{ppm}$  ( $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ )
- Operating temperature range :  $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ ;  $+14^{\circ}\text{F}$  to  $+140^{\circ}\text{F}$
- 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	0.7A
Rx	Max. audio	250mA
	Standby	70mA
	Power saved	20mA

- Antenna connector : BNC (50 $\Omega$ )
- Dimensions (proj. not incl.) : 54(W) $\times$ 132(H) $\times$ 35(D) mm; 2 $\frac{1}{8}$ (W) $\times$ 5 $\frac{1}{8}$ (H) $\times$ 1 $\frac{3}{8}$ (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  $-60\text{dB}$
- Max. freq. deviation :  $\pm 5.0\text{kHz}$
- Ext. mic. connector : 3-conductor 2.5(d)mm ( $\frac{1}{16}$ " $\times$   $\frac{1}{2}$ kl)

## RECEIVER

- Receiving system : Double conversion super-heterodyne
- Intermediate freq. : 1st 21.7MHz  
2nd 450kHz
- Sensitivity : 0.16 $\mu\text{V}$  (typ. at 12dB SINAD)
- Squelch sensitivity : 0.10 $\mu\text{V}$  (typ. threshold)
- Selectivity : 65dB (typical)
- Intermodulation : 75dB (typical)

- Spurious and image rejection : 75dB (typical)
- Audio output power : 300mW with an 8 $\Omega$  load (at 7.2V DC)
- Ext. SP connector : 3-conductor 3.5(d)mm ( $\frac{1}{8}$ " $\times$   $\frac{1}{8}$ " $\times$   $\frac{1}{8}$ "

## 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 PACKS AND CASE

BP-208	BP-209	BP-210	BP-222
AA (R6)	Ni-Cd	Ni-MH	Ni-Cd
batteries = 6	7.2V/1100mAh	7.2V/1650mAh	7.2V/600mAh



BATTERY PACKS AND CASE	BP-208	BP-209	BP-210	BP-222
OUTPUT POWER	5.5W typ.*	5.5W typ.	5.5W typ.	5.5W typ.
BATTERY LIFE	—	7.5hours	11hours	4.5hours

Approx. battery life, Tx (4h); Rx, standby—5-9h 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-208, BP-210 or BP-222 without transceiver in 12, 16.5, 6.5 hours (approx.), respectively. BC-187 is also available for regular charging.

## RAPID CHARGERS



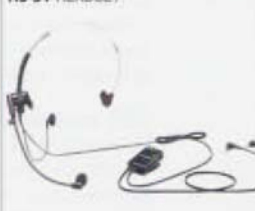
**BC-144 DESKTOP CHARGER** + **BC-145A/E/V AC ADAPTER**  
For rapid charging of battery pack, BP-208, BP-210 or BP-222. An AC adapter, BC-145, is supplied with the charger depending on version. Charging time: 1.5 to 2 hours. BC-119 is also available for rapid charging.  
**BC-121 MULTI-CHARGER** + **AD-94** (ver. 11) **DESKTOP CHARGER ADAPTER** + **BC-124 AC ADAPTER**  
For rapid charging of up to 6 battery packs (Six AD-94s are required, BP-208, BP-210 or BP-222. An AC adapter, BC-124, 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-131L: Compact and durable body. 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.

## HM-128L EARPHONE-MICROPHONE



The light weight earphone-mic. Has a compact microphone with PTT switch that clips to your lapel or breast pocket.

## UT-108 DTMF DECODER



Provides DTMF decode capability with code squelch and pager operation.

## SP-13 EARPHONE

Provides clear audio even in noisy environments.

**C5-V8 CLONING SOFTWARE** + **OPC-478 CLONING CABLE**  
Provides quick and easy programming of memory channel, memory names and set mode contents, for local repeater freq., etc.

**OPC-474 CLONING CABLE**  
Used for handheld-to-handheld data cloning.

**MB-68 BELT CLIP**  
Same as that supplied.

**MB-74 BELT CLIP**  
Alligator type. Clips almost anything in a variety of convenient places.

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Certificate Number Q14190

Icom Inc. (Japan), is an ISO9001 certification acquired company.

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