



144MHz FM TRANSCEIVER

# IC-V8000



SELECTABLE AMBER OR GREEN DISPLAY

## 75W of power for your ultimate 2m mobile experience

### 75W of output power

The combination of Icom's one piece, die-cast aluminum chassis and 75W of transmit power gives you the most powerful 2m mobile transceiver in its class! Your communications will get through.

### HM-133V, remote control microphone

The backlit HM-133V\*, gives you control of your IC-V8000 in the palm of your hand. The Icom exclusive "Hot keys" (F1/F2) memorize the transceiver full settings. As if switching between two separate radios, all operating frequencies, tone settings as well as the display color, fan speed, and set mode settings are memorized.

\* Optional for some versions.

### Dynamic Memory Scan (DMS)

With 200 alphanumeric memory channels, Icom's exclusive DMS system gives you flexibility over your scanning lists never offered before in a 2m mobile, fully customizable into 10 banks.

### CTCSS and DTCSS operation standard

50 CTCSS and 104x2 DTCSS encode/decode plus tone scan functions for various communication applications. The "pocket beep" feature gives you an audible and visual indicator of an incoming call.

### Weather Alert Scan (U.S.A. version only)

An amateur radio first, the IC-V8000 features a weather alert function to keep you on top of any weather emergencies. With a weather radio mode or weather alert, you are ready for quick response.

### Easy Operation

The perfect solution for mobile operation, the IC-V8000 has a front firing speaker providing crisp and clear audio. Along with a 6 character alphanumeric display, it offers quick reference of user-defined memory channel information.

### Standard DTMF encoder and optional decoder

10 DTMF memory channels with up to 24-digit DTMF codes can be used to control other equipment. The optional UT-108 DTMF decoder provides code squelch and paging functions.

### And more...

- FM narrow mode switchable (U.S.A. version only)
- Selectable squelch delay
- 10dB squelch attenuator
- Cloning capability from PC or between radios



HM-133V



Icom Inc.

## SPECIFICATIONS

## GENERAL

- Frequency range
  - Transmit : 144–148MHz
  - Receive : 136–174MHz\*

\*Guaranteed range 144–148MHz only;  
Frequency ranges are depending on version
- Mode : FM (F3E, F2D)
- No. of memory channels : 207 (including 6 scan edges, and 1 call channel)
- Operating temperature range:
  - 10°C to +60°C; +14°F to +140°F
- Frequency stability : ±10ppm (–10°C to +60°C)
- Power supply requirements: 13.8V DC ±15%
- Current drain (at 13.8V)
  - Tx High (at 75W) : 15A
  - Rx Max. audio : 1.0A
  - Standby : 0.3A typical (Fan-OFF)
- Antenna connector : SO-239 (50Ω)
- Dimensions (W×H×D) : 150×50×150mm ;  
(proj. not included) 5<sup>29</sup>/<sub>32</sub>×1<sup>31</sup>/<sub>32</sub>×5<sup>29</sup>/<sub>32</sub>in
- Weight (approximate) : 1.09kg; 2.2lb

## TRANSMITTER

- Output power : 75, 25, 10, 5 W selectable
- Maximum frequency deviation (wide/narrow) : ±5.0/±2.5kHz
- Spurious emissions : Less than –60dB
- Microphone connector : 8-pin modular (600Ω)

## RECEIVER

- Receive system : Double-conversion superheterodyne
- Intermediate frequencies : 1st 21.7MHz  
2nd 450kHz
- Sensitivity (at 12 dB SINAD) : 0.15μV typical
- Squelch sensitivity : 0.08μV typical (threshold)
- Selectivity (wide/narrow) : More than 6/3kHz at –6dB  
Less than 14/9kHz at –60dB
- Spurious & image rejection : 75dB typical
- Intermodulation rejection : 75dB typical

- Audio output power : More than 2.0W at 10% distortion with an 8 Ω load (at 13.8 V DC)
- External speaker connector: 3-conductor 3.5 (d) mm (1/8")/8Ω

## Supplied accessories

- Hand microphone\* (differ from versions)
- Spare fuse
- DC power cable
- Mobile mounting bracket kit
- Microphone hanger\* (depending on version)

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

## OPTIONS

## ■ HAND MICROPHONES

- **HM-133V**  
Remote control microphone with keypad backlighting.
- **HM-118N**  
Regular hand microphone.
- **HM-118TN/TAN**  
DTMF microphones with keypad backlighting.

## ■ OTHER ACCESSORIES

- **SP-10 EXTERNAL SPEAKER**
- **OPC-440/OPC-647 MIC EXTENSION CABLES**  
OPC-440: 5m (16.4ft); OPC-647: 2.5m (8.2ft)
- **OPC-441 SPEAKER EXTENSION CABLE**  
5.0m (16.4ft)
- **OPC-1132/OPC-347 DC POWER CABLES**  
OPC-1132: 3m (9.8ft); OPC-347: 7m (22.9ft)
- **OPC-589 MIC ADAPTER CABLE**  
Allows you to connect a regular 8-pin microphone.

• **UT-108 DTMF DECODER UNIT**

- Provides DTMF decode capability with code squelch and pager operation.
- **CS-V8000 CLONING SOFTWARE**  
+ **OPC-478 CLONING CABLE**  
For quick and easy programming of memories, etc.
- **OPC-474 CLONING CABLE** (between transceivers)

HM-133V



HM-118N

HM-118TN  
HM-118TAN

SP-10



OPC-440



UT-108



Icom Inc.

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

Count on us!

## Icom America Inc.

<Corporate Headquarters>  
2380 116th Avenue N.E., Bellevue, WA 98004, U.S.A.  
Phone: (425) 454-8155 Fax: (425) 454-1509  
URL : <http://www.icomamerica.com>  
<Customer Service> Phone : (425) 454-7619

## Icom Canada

Glenwood Centre #150-6165 Highway 17,  
Delta, B.C., V4K 5B8, Canada  
Phone: (604) 952-4266 Fax: (604) 952-0090  
URL : <http://www.icomcanada.com>

## Icom (Australia) Pty. Ltd.

A.B.N. 88 006 092 575  
290-294 Albert Street, Brunswick, Victoria, 3056, Australia  
Phone: (03) 9387 0666 Fax: 03 9387 0022  
URL : <http://www.icom.net.au>

## Icom New Zealand

146A Harris Road, East Tamaki, Auckland, New Zealand  
Phone: 09 274 4062 Fax: 09 274 4708  
URL : <http://www.icom.co.nz>

## Icom (Europe) GmbH

Communication Equipment  
Himmelgeister Str. 100, D-40225 Düsseldorf, Germany  
Phone: 0211 346047 Fax: 0211 333639  
URL : <http://www.icomeurope.com>

## Icom Spain S.L.

Ctra. de Gracia a Manresa Km. 14,750  
08190 Sant Cugat del Valles Barcelona, SPAIN  
Phone: (93) 590 26 70 Fax: (93) 589 04 46  
URL : <http://www.icomspain.com>

## Icom (UK) Ltd.

Unit 9, Sea St., Herne Bay, Kent, CT6 8LD, U.K.  
Phone: 01227 741741 Fax: 01227 741742  
URL : <http://www.icomuk.co.uk>

## Icom France S.a

Zac de la Plaine, Rue Brindejonc des Moulinas  
BP 5804, 31505 Toulouse Cedex, France  
Phone: 561 36 03 03 Fax: 561 36 03 00  
URL : <http://www.icom-france.com>

## Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,  
Taipei, Taiwan, R.O.C.  
Phone: (02) 2559 1899 Fax: (02) 2559 1874  
URL : <http://www.asia-icom.com>

## Beijing Icom Ltd.

1305, Wanshang Plaza, Shijingshan Road,  
Beijing, China  
Phone: (010) 6866 6337 Fax: (010) 6866 3553



Certificate Number Q14190

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

Your local distributor/dealer: