



# IC-450

## UHF CB Transceiver



**5W**  
Output Power



**80+**  
Channels



Noise Cancel  
Microphone



Voice Recorder



Built-In Speaker



**12-24V**

### 5W OUTPUT POWER

5 Watts (High) and 1 Watt (Low) Selectable Output Power.

### 80+ CHANNELS

80 CB Channels plus up to 35 Receive only Channels.

### NOISE CANCELLING MICROPHONE

This feature allows clear communication by reducing the surrounding noise, especially the low frequency noise received by the microphone.

### VOICE RECORDER

Can record up to 10 of the latest messages with a total recording time of 5 minutes (30 seconds per message).

### BUILT-IN SPEAKER

Speaker built into the microphone.

### 12-24V

Built in DC to DC converter providing 12 and 24 Volt automatic switching.

**MADE IN JAPAN**

## ■ Specifications

### General

- Frequency coverage
  - CB: 476.425–477.4125 MHz
  - RX: 450.000–520.000 MHz (RX only)
- Mode: 8K50F3E
- Number of channels: Max 128ch/8 banks
- Antenna impedance: 50 W
- Input impedance: 600 W
- Output impedance: 4 W
- Intermediate frequency: 1st 46.35 MHz, 2nd 450 kHz
- Operating temperature range: –10°C to +60°C
- Power supply voltage: 13.8 or 27.6 V DC nominal (Negative ground)
- Current drain with HM-212 (approximately)
  - DC 13.8 V:
    - RX stand-by 500 mA
    - RX Maximum audio 1500 mA
    - TX (5 W) 2000 mA
  - DC 27.6 V:
    - RX stand-by 300 mA
    - RX Maximum audio 1000 mA
    - TX (5 W) 1300 mA
- Dimensions: 125 (W) × 29 (H) × 180 (D) mm (Projections not included)
- Weight (approximately): 1011 g (with HM-212)

### Transmitter

- Output power: 5 W/1 W (selectable)
- Modulation system: Variable reactance frequency modulation
- Max. frequency deviation: ±2.5 kHz
- Frequency error: ±2.5 ppm
- Spurious emissions: Less than –30 dBm
- Adjacent channel power: Less than –16 dBm
- Audio harmonic distortion: 1% typical (60% deviation)
- Residual modulation: 40 dB typical
- Limiting characteristic of modulator: 70 to 100% of maximum deviation

### Receiver

#### [CB (476.425–477.4125 MHz)]

- Sensitivity (12 dB SINAD): 0.22  $\mu$ V typical
- Squelch sensitivity: 0.2  $\mu$ V typical (Threshold)
- Hum and noise: 48 dB typical
- Intermodulation rejection ratio: 72 dB typical
- Spurious response rejection ratio: 80 dB typical
- Adjacent channel selectivity: 68 dB typical
- Conducted spurious radiation: Less than –57 dBm (9 kHz–1.0 GHz) Less than –47dBm (1.0 GHz–4.0 GHz)
- Audio output power: 5.0 W typical at 10% distortion with a 4 W load
- Audio frequency response: +2 dB to –8 dB of 6 dB/octave from 300 Hz to 2550 Hz (at the 1 kHz reference)

#### [RX (450.000–520.000 MHz)] (Except CB (476.425–477.4125 MHz))

- Sensitivity (12 dB SINAD): 0.25  $\mu$ V typical
- Hum and noise: 45 dB typical
- Conducted spurious radiation: Less than –57 dBm (9 kHz–1.0 GHz) Less than –47 dBm (1.0 GHz–4.0 GHz)
- Audio frequency response: +2 dB to –8 dB of 6 dB/octave from 300 Hz to 2550 Hz (at the 1 kHz reference)



## ■ Other outstanding features

- Voice Guidance which announces the channel type and number when you select a channel
- Small and compact for installations where you are limited for space
- Easy to use
- Main unit can be mounted out of sight
- New design, compact controller speaker microphone with newly designed user interface and menu structure.

## ■ Options

### Cable

- **OPC-2355** EXTENSION CABLE  
2.5 m microphone extension cable. Same cable as supplied with the transceiver.

### Speaker

- **SP-22/SP-35** EXTERNAL SPEAKER  
Compact and easy to install.

### Cloning software

- **CS-450** CLONING SOFTWARE + **OPC-1122U** USB CLONING CABLE  
Provides quick and easy entry for items, such as set mode contents, zone type, and so on using the PC's USB terminal.

Icom Inc. 1-1-32 Kami-minami, Hirano-ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

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Your local dealer:

## Icom (Australia) Pty. Ltd.

Unit 1/103 Garden Road, Clayton VIC 3168 Australia  
Phone: (03) 9549 7500  
Fax: (03) 9549 7505  
Email: [sales@icom.net.au](mailto:sales@icom.net.au)