



IC-450

UHF CB Transceiver



Output Power



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

UHF CB Transceiver

IC-450

■ 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 μ V typical
- Squelch sensitivity: 0.2 μ 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 –47 dBm (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 μ 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