



# IC-455

## UHF CB Transceiver



**5 Year Warranty**

**MADE IN JAPAN**

## Loud, Clear & Easy-to-Use

### 5 Watt RF Output Power

5 Watts (High) and 1 Watt (Low) selectable output power.

### Seven-Colour Backlight LCD

The colour of the LCD Screen can be changed to reflect the operating status. Different colours can be assigned to channels, and colours can be set to indicate when scanning or transmitting.

### Noise Reduction, Audio Equalizer & Voice Changer

The Noise Reduction reduces background noise from both transmit and receive audio.

### Voice Recorder & Instant Play Back

Can record up to 10 messages of 30 seconds each, for a total of 5 minutes.

### Supports Both 12 V/24 V DC Power Sources

Accepts a 12/24 V DC power source and it is suitable for most types of cars and trucks.

### Dynamic Group Scan for Keeping Group Communication

Using a CTCSS or DTCS tone, this function finds an open channel for group communication.

### Loud Speaker-Microphone with Auto Volume Control

The microphone monitors ambient noise levels and automatically adjusts the audio level.

### IP54 Water Resistance & Dust Protection

## ■ Specifications

### General

- Frequency coverage
  - CB: 476.425–477.4125 MHz
  - RX: 400.000–520.000 MHz (RX only)
- Mode: 8K50F3E
- Number of channels: Max 256 channels/8 banks
- Antenna impedance: 50 Ω
- Input impedance (MIC): 600 Ω
- Output impedance (Audio): 4 Ω
- Intermediate frequency: 1st 49.95 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-244:
 

13.8 V DC:	27.6 V DC:	
RX stand-by	500 mA	300 mA (approx.)
RX Maximum audio	1500 mA	1000 mA (approx.)
TX (5 W output)	3000 mA	1500 mA (approx.)
- Dimensions: (Projections not included)
 

Main unit	125 (W) × 29 (H) × 160 (D) mm
HM-244	62.1 (W) × 101.5 (H) × 30.5 (D) mm
- Weight (approximately):
 

344 g (Main unit)
535 g (Main unit with HM-244)

### Transmitter

- Output power: 5 W/1 W (selectable)
- Modulation system: Variable reactance frequency modulation
- Max. frequency deviation: ±2.5 kHz
- Frequency stability: ±2.5 ppm
- Spurious emissions: –30 dBm max. (5 W: 67 dBc)
- Adjacent channel power: –16 dBm max. (5 W: 53 dBc)
- 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 μV typical
- Squelch sensitivity: 0.2 μV 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: –57 dBm max. (9 kHz–1.0 GHz)
- Audio output power: 5.0 W max. at 10% distortion with 4 Ω load
- Audio frequency response: +2 dB to –8 dB of 6 dB/octave from 300 Hz to 2550 Hz

#### [RX (400.000–520.000 MHz)] (Except CB (476.425–477.4125 MHz))

- Sensitivity (12 dB SINAD): 0.25 μV typical
- Hum and noise: 45 dB typical
- Conducted spurious radiation: –57 dBm max. (9 kHz–1.0 GHz)
- Audio frequency response: +2 dB to –8 dB of 6 dB/octave from 300 Hz to 2550 Hz

Measurements made in accordance with AS/NZS 4365-2011 (R2016), AS/NZS 4295:2015. All stated specifications are subject to change without notice or obligation.

### Supplied accessories:

- Speaker-microphone, HM-244
- DC power cable
- Mounting bracket for Main unit
- Microphone hanger

## ■ Other Features

- 400–520 MHz wide receiver coverage (unencrypted analogue mode)
- Selcall function and CTCSS/DTCS code
- 5 Scan types (Open, Group, Priority, Repeater and Dynamic Group)
- 80 channels per second high speed scan
- 256 memory channels (Including CB 80 channels, and RPT 16 channels)
- Voice Guidance function announces channel type and number
- PC programmable

## ■ Options

### Cable

- OPC-2355 EXTENSION CABLE
- 2.5 m microphone extension cable.

### External Speaker

- SP-35 EXTERNAL SPEAKER
- Compact and easy to install.

### Programming Software

- CS-455 PROGRAMMING SOFTWARE + OPC-1122U USB PROGRAMMING CABLE
- Allows setting adjustment via PC (Windows® only.)



Icom, Icom Inc. and the Icom logo are registered trademarks of Icom Incorporated (Japan) in Japan, the United States, the United Kingdom, Germany, France, Spain, Russia, Australia, New Zealand and/or other countries. Windows is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries. All other products or brands are registered trademarks or trademarks of their respective holders.