

VHF/UHF FM TRANSCEIVERS

# IC-208H (U.S.A.)

# IC-E208 (EUROPE)



*Icom's new dual band mobile transceiver the IC-208H/IC-E208 is the successor to the popular mobile transceiver, IC-207H. The basic features — switchable dual bander and detachable controller — are retained from the IC-207H, but the IC-208H/E208 adds as standard new features such as increased output power, selectable amber, green and yellow display, large tuning dial and a wideband receiver capability. A good balance of leading edge technology incorporated in a simple to use, reliable compact package to appeal to both new and experienced amateur user.*

## SELLING POINTS

- **Switchable VHF/UHF Dual bander with wideband receiver**
- **55W/50W (VHF/UHF) powerful output**
- **Detachable controller from main unit**
- **Large tuning dial and band switch button**
- **Selectable amber, green and yellow display**
- **Total 512 memory channels with bank link scan**
- **HM-133, remote control microphone**
- **9600bps data connector**
- **104×2 DTCS, 50 CTCSS tone squelch operation**
- **Selectable squelch attenuator**
- **Selectable squelch delay**

## FEATURES

### Switchable VHF/UHF dual bander plus wide band receiver

The IC-208H/E208 provides VHF/UHF dual band capabilities (one band at a time) via a simple band switching system. In addition, the IC-208H/E208 adds a wideband receiver as a standard feature. As it covers 118–173, 230–549 and 810–999MHz, you will be able to listen to aviation, marine, weather channels and other utility communications in your vehicle or shack\*.

\* Receiver range depending on versions. See specification page.

### Powerful 55W/50W output power

A MOS-FET power amplifier provides a powerful 55W in the 144MHz band and 50W in the 430 (440) MHz band, making this compact rig capable of long distance communication! Output power is selectable in 3 steps.

### Detachable front panel

The front panel can be easily detached from the main unit using the supplied separation cable, OPC-600/R (3.5m; 11.5ft). The optional OPC-601/R (7m; 23ft) is also available. Its compact dimensions allow flexible installation almost anywhere in a variety of vehicle types.

### Total 512 memory channels

The IC-208H/IC-E208 has a total of 512 memory channels; 500 regular channels, 2 call channels and 10 scan edges. Each memory channel stores a 6-character alphanumeric name, output power, tone frequency, skip information and so on. Our exclusive Bank Link Scan system divides these memories into 10 groups, A to J, and provides easy bank scanning.



Setting example for bank link scans using CS-208. Scans A–E banks.

### Extra large tuning dial

A newly designed tuning dial combines the tuning dial and band switch button. Channel selection can be easily made by fingertip control without looking at the front panel. The bright illumination on the band switch button is matched to the LCD illumination color and makes nighttime operation simple.



### Triple color illumination

The IC-208H/E208 extra large LCD can be backlit from a choice of three colors. Green, amber and yellow with 8-step dimmer control allows the user visual enjoyment to compliment listening enjoyment.



### HM-133, remote control microphone

The supplied HM-133 remote control microphone allows you to control almost every function of the IC-208H/E208. The F1/F2 buttons memorize the transceiver's full settings. By setting a different display color on each band, you will easily recognize the operating band without having to concentrate on the LCD characters.



HM-133

### 9600bps data connector

For direct packet modem connection at 9600bps, there is a mini DIN (6-pin) connector on the rear panel of the main unit. Of course, 1200bps packet communication is also possible.

### 104×2 DTCS, 50 CTCSS tone squelch operation is standard

CTCSS and DTCS tone signaling systems provide quiet stand-by and useful functions such as pocket beep and tone scan. The pocket beep alerts the operator with a beep sound, when the transceiver receives a signal containing a preset tone. Tone scan detects the tone frequency used for opening a repeater, or for tone squelch operation.

### Selectable squelch attenuator

This convenient feature reduces interference from strong nearby signals. Rotate the squelch control deeper than the 12 o'clock position and the squelch attenuator is activated to reduce the receive signal level by approx. 10dB.

### Selectable squelch delay

This function keeps the squelch in an open condition for a specified period even when a received signal becomes suddenly weaker than the threshold level. The period is selectable from long or short. For example, when a signal suddenly weakens you will not miss a contact's message contents.

### Other outstanding features

- FM narrow capability
- 16 DTMF memory channels (24 digits)
- Auto power off
- Auto repeater function (Depending on version)
- PC programmable with the optional CS-208, Cloning software. (Compatible OS : Windows® 98, Windows® 2000, Windows® Me, Windows® XP)

## SPECIFICATIONS

Specifications described below are target values. They may be subject to change.  
DO NOT incorporate this information in your advertisements until it has been confirmed.

### ■ GENERAL

- Frequency coverage : (Unit: MHz)

Version	Transmit	Receive
Euro	144-146, 430-440	118-173.995, 230-549.995, 810-999.990*4
Euro-1	144-146, 430-440	144-146, 430-440
Italy	144-146, 430-434, 435-438	118-173.995, 230-549.995, 810-999.990*4
U.S.A.	144-148, 420-450*1	118-173.995, 230-549.995, 810-999.990*1,2
Korea	144-146, 430-440	144-146, 430-440
Taiwan	144-146, 430-432	144-146, 430-432
Australia	144-148, 420-450*3	118-173.995, 230-549.995, 810-999.990*3
Export	136-173.995, 400-478.995*3	118-173.995, 230-549.995, 810-999.990*3

\*1 Guranteed range, 144-148, 440-450MHz. \*2 Cellular blocked.

\*3 Guranteed range, 144-148, 430-440MHz.

\*4 Guranteed range is same as Transmit range.

- Mode : FM, FM-N, AM\*, AM-N\*  
\* Receive only
- No. of memory Ch. : 512 (incl. 10 scan edges and 2 call)
- Frequency resolution : 5, 10, 12.5, 15, 20, 25, 30, 50,  
100 and 200kHz
- Frequency stability :  $\pm 10$ ppm ( $-10^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$ )
- Power supply requirement: 13.8V DC  $\pm 15$  %
- Current drain (VHF/UHF; at 13.8V DC):  
Transmit Max. power 12.0A/11.5A  
Receive Stand-by 0.8A  
Max. audio 1.0A
- Antenna impedance : 50 $\Omega$  (SO-239)
- Dimensions (WxHxD; projections not included):  
Main unit + controller 141 X 40 X 185.4 mm  
Controller 111 X 40 X 26.3 mm
- Weight (approx.) : 1.2kg

### ■ TRANSMITTER

- Modulation system : Variable reactance
- Output power : High\* 55W/50W  
(VHF/UHF) Mid approx. 15W  
Low approx. 5W  
\*25W for both VHF and UHF for Taiwan version.  
\*50W for both VHF and UHF for Korea version.
- Spurious emissions : Less than -60dB
- Microphone impedance : 600 $\Omega$  (8-pin modular)

### ■ RECEIVER

- Receiver system : Double superheterodyne
- Intermediate frequency: 1st 46.05MHz  
2nd 450kHz
- Sensitivity : Less than 0.18 $\mu\text{V}$  at 12dB SINAD
- SQL sensitivity : Less than 0.13 $\mu\text{V}$  at threshold
- Selectivity :  
Wide More than 12kHz/-6dB  
Less than 30kHz/-60dB  
Narrow More than 6kHz/-6dB  
Less than 20kHz/-60dB
- Spurious and image rejection ratio:  
More than 60dB
- Audio output power : More than 2.0W  
(at 13.8 V DC)
- Ext. SP connector : 2-conductor 3.5 (d) mm (1/8")/  
8 $\Omega$

## OPTIONS

- **CS-208** CLONING SOFTWARE  
+ **OPC-478, OPC-478U** CLONING CABLES (PC to transceiver)
- **HM-118N** HAND MICROPHONE
- **HM-118TN/TAN** DTMF MICROPHONE
- **HM-133** REMOTE CONTROL MICROPHONE
- **MB-17A** MOBILE MOUNTING BRACKET
- **MB-58** REMOTE CONTROLLER BRACKET  
+ **MB-65** REMOTE CONTROLLER BRACKET
- **OPC-440, OPC-647** MIC EXTENSION CABLES (5m/2.5m)
- **OPC-441** SPEAKER EXTENSION CABLE (5m)
- **OPC-474** CLONING CABLE (Between transceivers)
- **OPC-589** MIC ADAPTER CABLE (Connection for 8-pin Microphone)
- **OPC-600/R, OPC-601/R** CONTROLLER SEPARATION CABLES (3.5m/7.0m)
- **OPC-1132, OPC-347** DC POWER CABLES (3m/7m)
- **SP-10, SP-12** EXTERNAL SPEAKERS

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