



144MHz FM TRANSCEIVER

# IC-2300H

## **Tough & Built to Last** **Long Lasting Power and Icom Quality**

- **65 Watts of RF Output Power with Heavy Duty Endurance**
- **Powerful 4.5W Audio Output Provides Loud and Clear Audio**
- **Tested to the Latest MIL-STD 810 G Specifications**



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**65 Watts**



**Stable 65 W of output power\***

The IC-2300H can generate 65 W of output power. The rugged aluminum diecast provides effective heat dissipation and keeps RF output even during high duty cycle continuous transmission.

**A total of 207 memory channels**

The IC-2300H has a total of 207 memory channels, including 200 regular channels, 6 scan edges and 1 call channel. The channel name is programmable with 6 characters for easy recognition.

**Built-in CTCSS and DTCS encoder/decoder**

The CTCSS and DTCS tones are built-in for quiet stand-by and repeater access. The tone scan function detects the subaudible tone that is used for repeater access. The pocket beep function gives you an audible and visual indicator of an incoming call. The DTCS encoder function (DTCS transmit only) is also available.

**Simple operation**

The IC-2300H retains the basic panel layout and its user interface from the IC-2200H. A 70.6x20 mm LCD display offers a good viewing angle suitable for mobile operation. The bottom of the display indicates the available functions of the front panel buttons directly below the display.

**Multiple scan functions**

The IC-2300H supports various scan types for maximum reception and ease of use. The DMS (Dynamic Memory Scan) system allows you to scan selected banks from 10 memory banks by simply adding and deleting bank links.

**Tested to the MIL-STD 810 G specifications**

The IC-2300H is built tough to protect from a rough road. It has been tested to and has passed the latest MIL-STD 810 G specifications including shock, vibration and temperature tests.

**And more...**

- Power supply voltage display
- Wide/narrow channel setting
- 4.5 W (typical) loud audio
- Reduced depth dimensions
- DTMF autodial
- Time-out timer
- Repeater lockout
- Automatic power off
- S-meter squelch
- Selectable LCD backlight color (amber, yellow and green)
- Weather channel receive and alert function (USA version only)
- Automatic repeater function (USA version only)
- Selectable squelch delay from short and long
- Squelch attenuator reduces suppression from strong signals
- PC to transceiver and transceiver to transceiver cloning capability (optional cloning software, CS-2300H and/or cloning cable required)

**SPECIFICATIONS**

| GENERAL  |   |
|--|---|
| Frequency coverage<br>USA version                            | TX: 144–148 MHz,<br>RX: 136–174 MHz*                            |
| EXP version<br>KOR, TPE versions<br>* Guaranteed range       | TX/RX: 136–174 MHz*<br>TX/RX: 144–146 MHz<br>TX/RX: 144–148 MHz |
| Number of channels   | 207 channels (including<br>6 scan edges, and 1 call)            |
| Type of emission   | F2D, F3E (FM)   |
| Frequency stability  | ±3 ppm  |
| Power supply requirement                                     | 13.8 V DC ±15%  |
| Current drain (approx.)<br>Tx 65 W<br>Rx Max. audio/Stand-by | 11 A<br>1.5 A/0.4 A   |
| Antenna impedance  | 50 Ω (SO-239)   |
| Operating temperature range                                  | -10°C to +60°C; 14°F to +140°F                                  |
| Dimensions (W × H × D;<br>Projections not included)          | 140 × 40 × 162 mm;<br>5.5 × 1.6 × 6.4 in                        |
| Weight (approx.)   | 1.1 kg; 2.4 lb  |

| TRANSMITTER  |   |
|--|---|
| Output power* (at 13.8 V DC)<br>KOR version<br>TPE version | 65 W, 25 W, 10 W, 5 W<br>50 W, 25 W, 10 W, 5 W<br>24 W, 10 W, 5 W |
| Max. frequency deviation                                   | ±5.0 kHz/±2.5 kHz (W/N)   |
| Spurious emissions   | Less than -60 dBc   |
| Microphone impedance                                       | 600 Ω (8-pin modular)   |
| RECEIVER   |   |
| Intermediate frequencies                                   | 46.35 MHz/450 kHz   |
| Sensitivity (at 12 dB SINAD)                               | Less than 0.18 μV   |
| Selectivity Wide   | More than 6 kHz (at 6 dB)<br>Less than 14 kHz (at 60 dB)          |
| Narrow   | More than 3 kHz (at 6 dB)<br>Less than 9 kHz (at 55 dB)           |
| Spurious response rejection                                | More than 60 dB   |
| Audio output power   | 4.5 W typ. (10% dist. 4 Ω load)                                   |
| External speaker connector                                 | 2-conductor 3.5 (d) mm<br>(1/8")/4 Ω                              |

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

**Applicable U.S. Military Specifications**

| Standard          | MIL 810G |           |
|-------------------|----------|-----------|
|                   | Method   | Procedure |
| Low Pressure      | 500.5    | I, II     |
| High Temperature  | 501.5    | I, II     |
| Low Temperature   | 502.5    | I, II     |
| Temperature Shock | 503.5    | I-C       |
| Solar Radiation   | 505.5    | I         |
| Vibration         | 514.6    | I         |
| Shock             | 516.6    | I, IV     |

Also meets equivalent MIL-STD-810-C, -D -E and -F.

\* Output power differs depending on version and specific regulatory requirements.

**Supplied Accessories** (\* Depending on version)

- Remote control Mic, HM-133V
- Mounting bracket kit
- Microphone hanger\*
- DC power cable
- Spare fuses



The "3D GENUINE Icom label" is attached to the bottom of the front panel.

Check the Icom website for details:  
<http://www.icom.co.jp/world/genuine-info/>

**OPTIONS**

Some options may not be available in some countries. Please ask your dealer for details.



- CS-2300H CLONING SOFTWARE + OPC-478/OPC-478UC CLONING CABLES  
OPC-478: RS-232C cable;  
OPC-478UC: USB cable
- OPC-474 CLONING CABLE  
For transceiver to transceiver cloning.
- OPC-1132A, OPC-347 DC POWER CABLES  
OPC-1132A: 3.0 m; OPC-347: 7.0 m

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