



144MHz FM TRANSCEIVER

IC-2200H

SELECTABLE GREEN OR AMBER DISPLAY



Stable 65W* output and new digital features

65W* of output power

A MOS-FET power amplifier provides 65W* of stable output power. A one piece, aluminum chassis helps to keep the transceiver cool and provides durable long-lasting construction. (* Depending on version.)

Optional digital unit, UT-118

The optional UT-118 provides digitally modulated and demodulated clear voice and data communication at 4.8kbps. Store up to 6 of your own callsigns, and up to 6 more from other stations. Or instead of recording a callsign, record any message of up to 20 characters. You may then make a call by sending one of your callsigns or a recorded CQ message. The digital callsign squelch allows you to choose an incoming call selected by the callsign. When connected to an external GPS receiver*, position information may be exchanged with other stations. (* NMEA 0183 output and RS-232C interface are required.)

Simple operation

The IC-2200H retains a familiar user interface to the IC-2100H. The large tuning dial provides easy access to active channels even without looking at the front panel. Secondary functions are easily recalled by holding the appropriate button.

Dynamic Memory Scan (DMS)

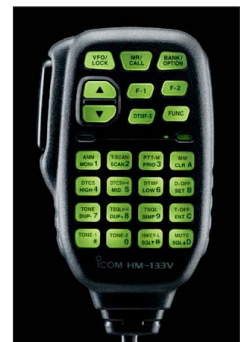
With a total of 207 alphanumeric memory channels, Icom's exclusive DMS system allows you to scan selected memory banks by simply adding and deleting bank links.

CTCSS and DTCS operation standard

The IC-2200H contains 50 CTCSS and 104x2 DTCS encode/decode plus tone scan functions. The "pocket beep" feature gives you an audible and visual indicator of an incoming call.

And more...

- 24 DTMF autodial memories
- DTMF code squelch and pager function with optional DTMF decoder, UT-108
- Weather channel with weather alert function (U.S.A. version only)
- FM narrow mode switchable (Depending on version)
- Selectable squelch delay
- Built-in 10dB squelch attenuator



HM-133V

Icom Inc.

SPECIFICATIONS

GENERAL

• Frequency range (Unit: MHz) :

Version	Transmit range	Receiver range
U.S.A.	144-148	118-174*
Europe	144-146	118-174**
Europe-1	144-146	144-146
Taiwan	144-146	144-146
Korea	144-146	144-146
Export	136-174*	118-174**

* Guaranteed range 144-148MHz
 ** Guaranteed range 144-146MHz

- Mode : FM, AM (Rx only)
- No. of memory channels : 207 (including 6 scan edges, and 1 call channel)
- Operating Temp. range : -10°C to +60°C; +14°F to +140°F
- Frequency stability : ±10ppm (-10°C to +60°C)
- Power supply requirements: 13.8V DC ±5%
- Current drain (at 13.8V DC) :
 - Tx High (65W) 15A
 - Rx Max. audio 1.0A
 - Standby 0.8A
- Antenna impedance : 50Ω (SO-239)
- Weight (approx.) : 1.25kg; 2.75lb

TRANSMITTER

- Output power (* approx.) : 65, 25*, 10*, 5*W selectable
 - Korea version 50, 25*, 10*, 5*W selectable
 - Taiwan version 24, 10*, 5*W selectable
- Maximum frequency deviation (wide/narrow) : ±5.0/±2.5kHz
- Spurious emissions : -70dBc typical.
- Microphone connector : 8-pin modular (600Ω)

RECEIVER

- Receive system : Double-conversion superheterodyne
- Intermediate frequencies : 1st 21.7MHz
2nd 450kHz
- Sensitivity (at 12dB SINAD) : 0.133μV typical
- Squelch sensitivity : 0.100μV typical (threshold)
- Selectivity :
 - Wide : More than 6kHz at -6dB
Less than 14kHz at -60dB
More than 3kHz at -6dB
Less than 9kHz at -55dB
 - Narrow : More than 2.4W at 10% distortion with an 8Ω load
- Spurious and image rejection : More than 60dB
- Audio output power : More than 2.4W at 10% distortion with an 8Ω load
- External speaker connector: 3-conductor 3.5 (d) mm (1/8")/8Ω

Applicable U.S. Military Specifications

Icom makes rugged products that have been tested to and passed the following MIL-STD requirements and strict environmental standards.

Standard	MIL 810 C		MIL 810 D		MIL 810 E		MIL 810 F	
	Method	Proc.	Method	Proc.	Method	Proc.	Method	Proc.
Low Pressure	500.1	I	500.2	I, II	500.3	I, II	500.4	I, II
High Temp.	501.1	I	501.2	I, III	501.3	I, II	501.4	I, II
Temp. Shock	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Solar Radiation	503.1	I	503.2	I	503.3	I	503.4	I
Humidity	505.1	I, II	505.2	II, III	505.3	II, III	505.4	I
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	-
Dust Blowing	510.1	I	510.2	I	510.3	I	510.4	I
Vibration	514.2	VIII, X	514.3	I	514.4	I	514.5	I
Shock	516.2	I, II, V	516.3	I, IV	516.4	I, IV	516.5	I, IV

OPTIONS

■ MICROPHONE ACCESSORIES

- **HM-133V REMOTE CONTROL MICROPHONE**
Remote control microphone with keypad backlighting. Same as supplied.
- **HM-118N HAND MICROPHONE**
- **HM-118TN/TAN DTMF MICROPHONE**
DTMF microphone with keypad backlighting.
- **OPC-440/OPC-647 MIC EXTENSION CABLES**
OPC-440: 5m (16.4ft); OPC-647: 2.5m (8.2ft)
- **OPC-589 MIC ADAPTER CABLE**
Allows you to connect a regular 8-pin microphone.

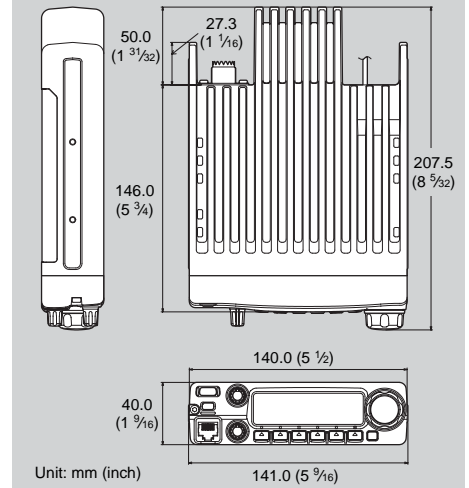
■ EXTERNAL SPEAKER

- **SP-10 EXTERNAL SPEAKER**
- **OPC-441 SPEAKER EXTENSION CABLE: 5.0m (16.4ft)**

■ INTERNAL UNITS

- **UT-108 DTMF DECODER UNIT**
Provides DTMF decode capability with code squelch and pager operation.
- **UT-118 DIGITAL UNIT**
Provides digital voice and data capability at 4.8kbps (Voice + Data).

D



Supplied accessories (* Depending on version)

- Remote control microphone, HM-133V*
- Microphone hanger* ● Mounting bracket kit
- DC power cable, OPC-1132 ● Spare fuse

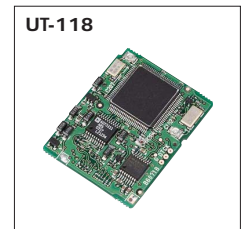
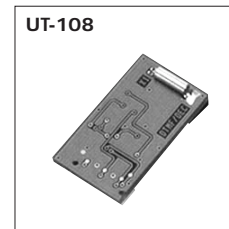
All stated specifications are subject to change without notice or obligation.

■ OTHER ACCESSORIES

- **OPC-1132/OPC-347 DC POWER CABLES**
OPC-1132: 3m (9.8ft); OPC-347: 7m (22.9ft)
- **MB-17A MOBILE MOUNTING BRACKET**
One-touch mounting bracket.

■ CLONING CABLES AND SOFTWARE

- **CS-2200H CLONING SOFTWARE**
+ **OPC-478/OPC-478U CLONING CABLES**
For quick and easy programming of memories, etc.
- **OPC-474 CLONING CABLE (between transceivers)**



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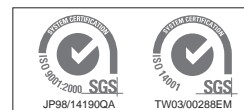
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