ICOM

VHF/UHF DIGITAL TRANSCEIVER

ID–800H

Digital Dual Band Mobile with Wideband Receiver

Digital Voice + 950 bps* data capability

The ID-800H can transmit and receive D-STAR format digital voice and 950 bps data communication, simultaneously. The Digital features of the ID-800H are compatible with IC-2200H, IC-V82 and IC-U82 radios with the optional UT-118 installed. In addition, analog FM mode is also available. * Approximate value.

GPS Coordination data

When an external GPS receiver (NMEA 0183 format) is connected to the ID-800H, yours and other station's position information can be exchanged and shown on the display. When the receiving side is connected to a PC*, map plotting is possible. Supported data formats are GLL, GGA, RMC, GSA and VTG sentences.

* Map plotting software required (Not supplied by Icom).

Calling by callsign

In the digital voice mode, your callsign and the calling station's callsign (or CQ message) are included in each transmission. The callsign squelch allows you to choose an incoming call selected by the callsign. Also, received callsigns are automatically stored in the memory.

And more digital features

- 20-character short data message
- Digital code squelch
- EMR communication
- Digital pocket beep
- Stand-by beep

Powerful 55W/50W output power

The ID-800H has 55W/50W (VHF/UHF) output. It is Icom's most powerful dual band mobile. High power for long distance communications plus reduced power settings (15/5W) for local communications.

Wideband receiver

The ID-800H wideband receiver covers 118–173, 230–549 and 810–999MHz* as standard. Listen to your Amateur VHF/UHF bands, as well as aviation, marine, weather and other utility communications in a compact mobile package.

* Excluding Cellular range. AM, FM, N-FM mode only.

Detachable front panel

The separation cable, OPC-600/R, is supplied with the radio allowing the compact remote control head* to be installed almost anywhere.

* 111 (W)×40 (H)×38.5 (D) mm; 4⅜×1 9/16×1 17/32 in.

500 alphanumeric memory channels

With this much memory, you can fill your ID-800H with all of your favorite frequencies and operation settings! Then name each memory channel with up to 6 characters for quick channel identification.

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And more...

- Multi color display (Amber, yellow, and green)
- Built-in CTCSS and DTCS tone squelch
- Pocket beep and tone scan
- Selectable squelch delay
- Remote control microphone, HM-133
- Narrow band FM capability
- RF attenuator linked to the squelch control
- 16 DTMF memory channels (24 digits)
- 9600bps data connector (mini DIN 8-pin)
- Auto repeater function*
- Weather channel with weather alert*

(*U.S.A. version only)

Applicable U.S. Military Specifications

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, II	501.3	I, II	501.4	I, II
Low Temp.	502.1	I	502.2	I, II	502.3	I, II	502.4-3	I, II
Temp. Shock	503.1	I	503.2	I	503.3	I	503.4	I
Solar Radiation	505.1	I	505.2	I	505.3	I	505.4	I
Humidity	507.1	I, II	507.2	II, III	507.3	II, III	507.4	–
Salt Fog	509.1	I	509.2	I	509.3	I	509.4	–
Dust	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

SPECIFICATIONS

GENERAL

- Frequency coverage :
  - USA Guaranteed 144–148, 440–450MHz
  - Tx working 144–148, 420–450MHz
  - General Guaranteed 144–148, 430–440MHz
  - Tx working 136–173.995, 400–478.995MHz
- Receiver coverage (working range) : 118–173.995, 230–549.995, 810–999.990MHz* (* Cellular blocked for USA version)
- Mode : FM, GMSK, AM (receive only)
- No. of memory channels : 512 (Including 2 call and 10 scan edges)
- Antenna impedance : 50Ω (SO-239)
- Power supply requirement : 13.8V DC ±15%
- Usable temperature range : –10°C to +60°C ; +14°F to +140°F
- Frequency stability : ±2.5ppm (–10°C to +60°C)
- Digital transmission speed : 4.8kbps
- Voice coding speed : 2.4kbps
- Tuning step increments : 5, 6.25, 10, 12.5, 15, 20, 25, 30, 50, 100 and 200kHz
- Current drain (at 13.8V DC) :
  - Transmit High 12A/12.5A (VHF/UHF)
  - Receive Stand-by 0.9A
  - Max. audio 1.1A
- Dimensions (W × H × D) (Projections not included) : 141 × 40 × 185.4mm; 5 9/16 × 1 9/16 × 7 5/16 in
- Weight (approx.) : 1.2kg; 2.65lb

TRANSMITTER

- Output power VHF : 55W, 15W*, 5W* selectable
  - UHF 50W, 15W*, 5W* selectable
  - *Middle and low power settings are approxminate value.
- Modulation system FM : Variable reactance
  - DV GMSK
- Max. frequency deviation : ±5.0/±2.5kHz (FM, wide/narrow)
- Spurious emissions : Less than –60dB
- Microphone impedance : 600Ω (8-pin modular jack)

RECEIVER

- Intermediate frequencies : 46.05MHz/450kHz (1st/2nd)
- Sensitivity (144/430MHz band only)) :
  - FM (12dB SINAD) Less than 0.18µV
  - DV (BER 1%) Less than 0.35µV
- Squelch sensitivity (144/430MHz band only) :
  - FM (threshold) : Less than 0.13µV
- Selectivity (Wide/narrow) : More than 12/6kHz at –6dB; Less than 30/20kHz at –60dB
- Spurious and image rejection : More than 60dB
- Audio output (at 13.8V DC) : More than 2.0W at 10% distortion with an 8Ω load
- Ext. speaker connector : 2-conductor 3.5 (d) mm (1/8") /8Ω

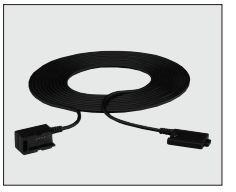
Supplied accessories:
- Hand microphone, HM-133
- 3.5m (11.5ft) separation cable, OPC-600/R
- DC power cable, OPC-1132
- Mounting bracket
- Spare fuse

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

OPTIONS

- **HM-133** REMOTE CONTROL MICROPHONE
  Remote control microphone with keypad backlighting.

- **HM-154** HAND MICROPHONE
  Regular hand microphone.



- **OPC-600/R, OPC-601/R** SEPARATION CABLES
  OPC-600/R: 3.5m (11.5ft); OPC-601/R: 7.0m (23.0ft)

- **OPC-1384** DATA CABLE
  Transceiver to PC/GPS receiver, 8-Pin DIN to RS-232C cable.

- **OPC-440** MIC EXTENSION CABLE
  5.0m (16.4ft)

- **CS-D800** CLONING SOFTWARE + **OPC-478/OPC-478U** CLONING CABLE
  For quick and easy programming of memories, etc.
  OPC-478: RS-232C cable; OPC-478U: USB cable
- **OPC-474** CLONING CABLE
  Data cloning cable between transceivers.

- **SP-10** EXTERNAL SPEAKER

- **OPC-441** SPEAKER EXTENSION CABLE
  5.0m (16.4ft)

- **OPC-1132, OPC-347** DC POWER CABLES
  OPC-1132: 3.0m (9.8ft); OPC-347: 7.0m (23ft)

- **MB-65** MOUNT BASE
  Mounts the remote control head with the MB-58. Angle and direction is adjustable.

- **MB-58** REMOTE CONTROL HEAD BRACKET
  Mounts the remote control head in a convenient location.

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Les spécifications et informations données dans ce document peuvent être modifiées sans préavis.

ICOM FRANCE
Zac de la Plaine - 1, Rue Brindejonc des Moulinais
BP 45804 - 31505 TOULOUSE CEDEX5
Tél : 05 61 36 03 03 - Fax : 05 61 36 03 00
WEB ICOM : http://www.icom-france.com
E-mail : icom@icom-france.com

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