



HF MARINE TRANSCEIVER

IC-M802

General version



Long Distance Communication Made Clear and Simple

4x8-inch remote controller and 4x4-inch external speaker

The compact remote controller and external speaker allows you flexible and efficient installation in a dashboard or a panel, while placing the main unit in an out-of-the-way location.

Large LCD with dot-matrix characters

The IC-M802 has the capability of up to 24 characters x 9 lines full dot-matrix display. Operating status and setting of information can be seen instantly and clearly.

Easy to use

Two large Group and Channel dials offer easy channel selection. Buttons and dials are clearly labelled for an ergonomic layout that makes the IC-M802 one of the easiest radios in the market to use.

Digital signal processing

The latest DSP technology improves both the transmit and receiver performance. The speech compressor, utilizing DSP, increases average talk power. The digital IF filter provides flexible filter settings for narrow band signals like SITOR, FSK, and HF e-mail without having to install an optional filter.

150W (PEP) of powerful output

A stable 150W of output power provides reliable long distance communication. The large cooling fan ensures stable internal temperature even during full-power operation.

Built-in 2-tone Alarm function

A 2-tone alarm (2182kHz) signal can be transmitted simply by the push of the 'Alarm' button. A spring loaded cover prevents accidental activation.

Automatic antenna tuner, AT-140

An optional automatic tuner, AT-140, easily connects to the IC-M802. When the tuner cannot tune the antenna, the IC-M802 bypasses the tuner and displays a warning on the LCD display.

Other features

- Wide band coverage receiver—0.5 to 29.9999MHz
- RS-232C connector for PC connection
- J3E, J2B, F1B and A1A operating modes are available
- Headphone jack located on the front of the remote controller
- CW full break-in and semi break-in

SPECIFICATIONS

GENERAL

- Frequency coverage (Unit : MHz):
 - Rx 0.5–29.9999 (continuous)
 - Tx 1.6– 2.9999, 4.0– 4.9999, 6.0– 6.9999, 8.0– 8.9999, 12.0–13.9999, 16.0– 17.9999, 18.0– 19.9999, 22.0–22.9999, 25.0– 27.5000
- Type of emission : J3E (SSB), J2B (AFSK), F1B (FSK), A1A (CW), H3E (AM)*
 - * Receive only
- Number of channels : 1195 (max.)
 - (160 programmable channels; 249 ITU SSB duplex; 72 ITU SSB simplex; 662 ITU FSK duplex; 21 ITU 4MHz simplex; 31 ITU 8MHz simplex)
- Antenna impedance : 50Ω (SO-239)
- Power supply requirement : 13.6V DC ±15%
- Max. current drain (at 13.6V DC):
 - Tx (Max. power) 30A (typ.)
 - Rx (Max. audio) 3.0A
- Operating temp. range : –30°C to +60°C; –22°F to +140°F
 - Guaranteed range : –20°C to +55°C; –4°F to +131°F
- Frequency stability : ±20Hz (at –20°C to +55°C)

- Dimensions (WxHxD; projections not included):
 - Main unit 240x94x238.4mm; 9.45x3.7x9.39 in
 - Controller 220x110x84.4mm; 8.66x4.33x3.32 in
 - Speaker 110x110x84.4mm; 4.33x4.33x3.32 in
- Weight :
 - Main unit 4.7kg; 10.36lb
 - Controller 570g; 1.26lb
 - Speaker 370g; 0.81lb

TRANSMITTER

- Output power : 150, 60, 20W PEP (Selectable)
- Spurious emissions : –62dB
- Unwanted sideband : 55dB
- Carrier suppression : 40dB
- Microphone impedance: 2.4kΩ

Supplied accessories:

- Separation cable, OPC-1106 (5m; 16.4ft)
- Hand microphone, HM-135
- Mounting bracket kits
- DC power cables
- Spare fuses
- External speaker, SP-24
- Microphone hanger
- ACC plugs

RECEIVER

- Sensitivity (at 10dB S/N) :

	J3E, A1A	J2B, F1B	H3E
0.5– 1.5999MHz	6.3μV	–	32μV
1.6– 1.7999MHz	0.89μV	0.89μV	6.3μV
1.8– 3.9999MHz	0.5μV	0.5μV	3.2μV
4.0–29.9999MHz			–

- Spurious response rejection ratio: (1.6–29.9999MHz) More than 70dB
- Audio output power : 4.0W typical at 10% distortion (at 13.6V DC) with a 4Ω load
- Clarity variable range : ±150Hz
- Speaker connector : 2-conductor 3.5 (d) mm (1/8")/4Ω
- Headphone connector : 3-conductor 3.5 (d) mm (1/8")/8–16Ω
- NMEA formats : GGA (NMEA 0183 Version 3.01)

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

OPTIONS

MN-100 ANTENNA MATCHER



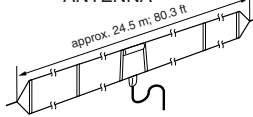
Matches the transceiver to a dipole antenna. Covers all HF bands from 1.5 to 30MHz. Two 8m (26.2ft) antenna wires supplied.

MN-100L ANTENNA MATCHER



Matches the transceiver to a longwire antenna. Covers all HF bands from 1.5 to 30MHz. A 15m (49.2ft) antenna wire supplied.

AH-710 FOLDED DIPOLE ANTENNA



Covers 1.9 to 30MHz band. Has an SO-239 connector and 30m (98.4ft) coaxial cable. Easy to assemble (non-kink construction).

AT-140 HF AUTOMATIC ANTENNA TUNER



Matches the transceiver to a long wire antenna with little insertion loss. Tested to IP56 dust and powerful water jet protections. AT-130 is also available.

OPC-1147/N SHIELDED CONTROL CABLE



10m (32.8ft) shielded control cable connects between AT-140 and transceiver. Protects the transceiver from RF feedback.

SP-24 EXTERNAL SPEAKER



4x4-inch external speaker. Same as supplied. Input impedance: 4Ω. Max. input power: 7W.

MB-75 FLUSH MOUNT KIT



For mounting the controller, RC-25 or the SP-24 to a panel.

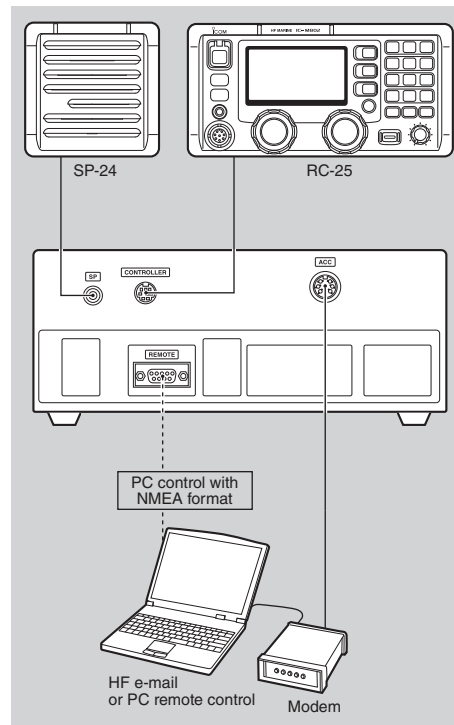
HM-135 HAND MICROPHONE



Remote function microphone equipped with channel and programmable buttons. Same as supplied.

- **OPC-1106 SEPARATION CABLE** 5m (16.4ft) separation cable between controller and main unit. Same as supplied.
- **RC-25 REMOTE CONTROLLER** Remote controller head. Same as supplied.

SYSTEM OVERVIEW



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