



HF MARINE TRANSCEIVER

# IC-M802

**The latest ICOM  
Digital Signal Processor  
technology with  
a compact remote head**



#### Standard 4 x 8 remote controller

The IC-M802 offers an industry-standard 4-inch tall (10.16 cm) remote controller. When set up with the Icom VHF radio, Icom offers you a complete communications station.

#### Large LCD with dot matrix characters

You can easily read the alphanumeric name of any of the 1355 ITU channels at a glance with the large LCD display. Nighttime operation is no problem with 10 levels (plus OFF) adjustable backlit display and keypad.

#### Easy to use in all conditions

The IC-M802 offers two large dials – bank and channel – for easy channel selection. Up to 16 banks of 20 (max.) each for user channels, and 17 banks for ITU channels are available.

#### Built-in digital selective calling

For added safety at sea, the IC-M802 offers the latest in one-touch DSC emergency communications technology. (ITU-R M.493-13 Class E standard.) The emergency button is covered by a red, spring loaded hatch to avoid accidental DSC activation.

#### Digital signal processor advantage

The speech compressor, utilizing DSP, increases average talk power. Flexible filter settings provide for narrow band signals like e-mail, SITOR, FSK and other operation without an optional filter.

#### 150W (PEP) of powerful output

150 Watts of power offers superior worldwide communications. A one piece, die cast aluminum chassis and a large cooling fan allow continuous transmission at full output power – very important for data communications, like e-mail.

#### One-touch e-mail access

An SSB first! The IC-M802 can be set to memorize your HF e-mail access frequency, mode and bandwidth settings. At sea e-mail has never been easier.

\* Please consult with an HF e-mail provider for details.

#### Automatic antenna tuner, AT-140

An optional automatic antenna 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 indicator on the LCD.

#### Other features

- Wide band receive coverage (0.5 – 29.9999MHz)
- Remote control mic allows you to select channels directly
- Accessory RS-232C port allows connection of modem, etc.
- GPS input, NMEA 0183 version 3.01
- A headphone jack in front of the controller

## 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\*) (\*Rx only)
- Number of channels : 1355 (max.)
  - (160 programmable channels; 249 ITU SSB duplex; 72 ITU SSB simplex; 662 ITU FSK duplex; 160 e-mail; 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 : ±10Hz (at -20°C to +55°C)

- Dimensions (W×H×D; projections not included):
  - Main unit 220×94×238.4mm; 8.45×3.7×9.39 in
  - Controller 220×110×84.4mm; 8.66×4.33×3.32 in
  - Speaker 110×110×84.4mm; 4.33×4.33×3.32 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
- External speaker, SP-24
- Microphone hanger
- ACC plugs
- Spare fuses

### RECEIVER

- Sensitivity (at 10dB S/N) :
 

	J3E, A1A	J2B, F1B	H3E	DSC (J2B)
0.5– 1.5999MHz	6.3V	–	32V	0.5V (at 1% error rate)
1.6– 1.7999MHz	0.89V	0.89V	6.3V	
1.8– 3.9999MHz	0.5V	0.5V	3.2V	
4.0– 29.9999MHz	–	–	–	
- Spurious response rejection ratio:
  - Tx/Rx (1.6–29.9999MHz) More than 70dB
  - DSC (Except 1st IF image) More than 50dB
  - (1st IF image) More than 60dB
- Audio output power : 4.0W at 10% distortion
  - (at 13.6V DC) with a 4Ω load
- Audio output impedance : 4–8Ω
- Clarity variable range : ±150Hz
- NMEA formats : GGA
  - (NMEA 0183 Version 3.01)

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

## OPTIONS

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

### AT-140

HF AUTOMATIC ANTENNA TUNER



IP56

Matches the transceiver to a long wire antenna with little insertion loss. Cable connections are easy to install. AT-130 is also available.

### MN-100 ANTENNA MATCHER



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

### MN-100L ANTENNA MATCHER



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

### OPC-1147/N SHIELDED CONTROL CABLE



10m (32.8ft) shielded control cable connects between AT-140 and transceiver. OPC-1147N is for use with AT-140 Version 36.

### HM-135 HAND MICROPHONE



Water resistant, remote function mic. Same as supplied.

### MB-75 FLUSH MOUNT KIT



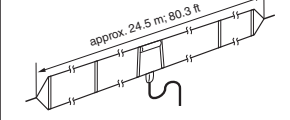
For mounting the controller or speaker to a panel.

### SP-24 EXTERNAL SPEAKER



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

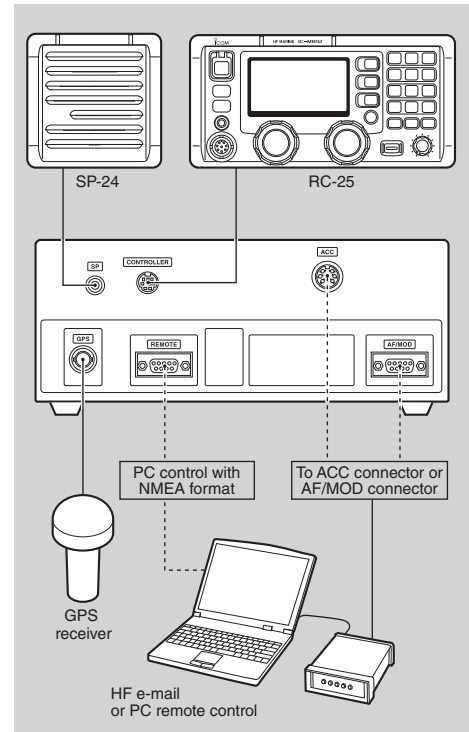
### AH-710 FOLDED DIPOLE ANTENNA



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

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

## SYSTEM OVERVIEW



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## Icom Inc.

1-1-32, Kami-minami, Hirano-Ku, Osaka 547-0003, Japan Phone: +81 (06) 6793 5302 Fax: +81 (06) 6793 0013

[www.icom.co.jp/world](http://www.icom.co.jp/world)

## Count on us!

### Icom America Inc.

12421 Willows Road NE,  
Kirkland, WA 98034, U.S.A.  
Phone: +1 (425) 454-8155  
Fax: +1 (425) 454-1509  
E-mail: [sales@icomamerica.com](mailto:sales@icomamerica.com)  
URL: <http://www.icomamerica.com>

### Icom (Europe) GmbH

Communication Equipment  
Auf der Krautweide 24  
65812 Bad Soden am Taunus, Germany  
Phone: +49 (6196) 76685-0  
Fax: +49 (6196) 76685-50  
E-mail: [info@icom-europe.com](mailto:info@icom-europe.com)  
URL: <http://www.icom-europe.com>

### Icom France s.a.s.

Zac de la Plaine,  
1 Rue Brindejonc des Moulinais, BP 45804,  
31505 Toulouse Cedex 5, France  
Phone: +33 (5) 61 36 03 03  
Fax: +33 (5) 61 36 03 00  
E-mail: [icom@icom-france.com](mailto:icom@icom-france.com)  
URL: <http://www.icom-france.com>

### Asia Icom Inc.

6F No. 68, Sec. 1 Cheng-Teh Road,  
Taipei, Taiwan, R.O.C.  
Phone: +886 (02) 2559 1899  
Fax: +886 (02) 2559 1874  
E-mail: [sales@asia-icom.com](mailto:sales@asia-icom.com)  
URL: <http://www.asia-icom.com>

Your local distributor/dealer:

### Icom Canada

Glenwood Centre #150-6165  
Highway 17A, Delta, B.C.,  
V4K 5B8, Canada  
Phone: +1 (604) 952-4266  
Fax: +1 (604) 952-0090  
E-mail: [info@icomcanada.com](mailto:info@icomcanada.com)  
URL: <http://www.icomcanada.com>

### Icom Spain S.L.

Ctra. Rubi, No. 88 "Edificio Can Castanyer"  
Bajos A 08174, Sant Cugat del Valles,  
Barcelona, Spain  
Phone: +34 (93) 590 26 70  
Fax: +34 (93) 589 04 46  
E-mail: [icom@icomspain.com](mailto:icom@icomspain.com)  
URL: <http://www.icomspain.com>

### Icom (Australia) Pty. Ltd.

Unit 1 / 103 Garden Road,  
Clayton, VIC 3168 Australia  
Phone: +61 (03) 9549 7500  
Fax: +61 (03) 9549 7505  
E-mail: [sales@icom.net.au](mailto:sales@icom.net.au)  
URL: <http://www.icom.net.au>

### Icom Brazil

Rua Itororó, 444 Padre Eustáquio  
Belo Horizonte MG,  
CEP: 30720-450, Brazil  
Phone: +55 (31) 3582 8847  
Fax: +55 (31) 3582 8987  
E-mail: [sales@icombrasil.com](mailto:sales@icombrasil.com)

### Icom (UK) Ltd.

Blacksole House, Altira Park,  
Herne Bay, Kent, CT6 6GZ, U.K.  
Phone: +44 (0) 1227 741741  
Fax: +44 (0) 1227 741742  
E-mail: [info@icomuk.co.uk](mailto:info@icomuk.co.uk)  
URL: <http://www.icomuk.co.uk>

### Icom New Zealand

39C Rennie Drive, Airport Oaks,  
Auckland, New Zealand  
Phone: +64 (09) 274 4062  
Fax: +64 (09) 274 4708  
E-mail: [inquiries@icom.co.nz](mailto:inquiries@icom.co.nz)  
URL: <http://www.icom.co.nz>