

# IC-M802

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



### Standard 4 × 8 remote controller

The IC-M802 offers an industry-standard 4-inch tall (10.16 cm) remote controller. When set up with the IC-M502 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 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)
- VFO mode is available (depending on version)
- Remote control mic allows you to select channels directly
- Accessory RS-232C port allows connection of modem, etc.
- GPS input, NMEA 0183 version 2.0 or later
- A headphone jack in front of the controller

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**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 user programmable; 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 240×94×238.4mm; 9<sup>7</sup>/<sub>16</sub>×3<sup>11</sup>/<sub>16</sub>×9<sup>9</sup>/<sub>16</sub> in  
 Controller 220×110×84.4mm; 8<sup>7</sup>/<sub>16</sub>×4<sup>11</sup>/<sub>16</sub>×3<sup>9</sup>/<sub>16</sub> in  
 Speaker 110×110×84.4mm; 4<sup>11</sup>/<sub>16</sub>×4<sup>11</sup>/<sub>16</sub>×3<sup>9</sup>/<sub>16</sub> 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 : 600Ω

**Supplied accessories:**

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

**RECEIVER**

- Sensitivity (at 10dB S/N) :
- |                  | J3E, A1A | J2B, F1B | H3E   | DSC (J2B)                |
|------------------|----------|----------|-------|--------------------------|
| 0.5 – 1.5999MHz  | 6.3μV    | –        | 32μV  | –                        |
| 1.6 – 1.7999MHz  | 0.89μV   | 0.89μV   | 6.3μV | 0.5μV (at 1% error rate) |
| 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
  - Audio output impedance: 4–8Ω
  - Clarity variable range : ±150Hz
  - GPS interface : NMEA 0183 version 2.0 or later

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

**OPTIONS**



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



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



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



Provides 13.6V DC (30A) output from an AC outlet.



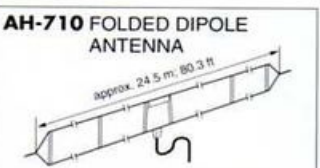
Water resistant, remote function mic. Same as supplied.



For mounting the controller or speaker to a panel.



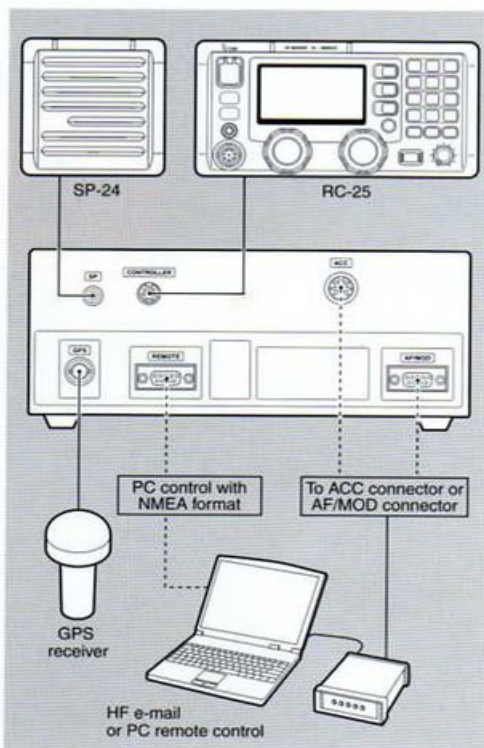
4×4-inch external speaker. Same as supplied. Input impedance: 4Ω. Max. input power: 7W.



Covers 1.9 to 30MHz band. Has an SO-239 connector and 30m 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.
- OPC-1147 SHIELD CONTROL CABLE 10m (32.8ft) shield cable to control AT-140.

**SYSTEM OVERVIEW**



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