

# IC-M801E



\* The above photo includes optional antenna tuner, AT-141.

## MF/HF SSB radio telephone with Class E DSC operation

- ITU Class E DSC for non-solas vessels  
When used with the optional antenna tuner, AT-141, and the OPC-1465 cable, the IC-M801E meets Class E DSC standards.
- 4×8 inch remote controller design matches to Icom VHF radios, IC-M601 or M505
- Large LCD with full dot-matrix characters
- Built-in DC-DC power converter  
Built-in DC-DC power converter provides 13.6V DC either from 12V DC or 24V DC, depending on version.
- Digital IF filter provides flexible filter setting for narrow mode operation
- Stable 125W\* (PEP) of output power  
(\* 4.0–27.5MHz)
- Optional antenna tuner, AT-141, with bypass function
- 0.5–29.999MHz continuous receive coverage

## SPECIFICATIONS

### GENERAL

- Frequency coverage (Unit : MHz):
  - Receive 0.5–29.9999 (continuous)
  - Transmit 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
- DSC 2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045
- Type of emission : J3E (USB/LSB\*), J2B (AFSK), F1B (FSK, DSC), A1A\* (CW), H3E\* (AM)
  - \* LSB, A1A, H3E modes are receive only
- Number of channels : 1205 (max.)
  - (160 programmable channels; 249 ITU SSB duplex; 124 ITU SSB simplex; 662 ITU FSK duplex; 10 Semi/auto channels)
- Antenna impedance : 50Ω (SO-239x2)
- Power supply requirement :
  - 12V version 10.8V–15.6V DC (floating ground)
  - 24V version 21.6V–31.2V DC (floating ground)
- Current drain :
  - Tx Max. power 60A/30A (12V/24V version)
  - Rx Max. audio Less than 6.0A/3.0A (12V/24V version)
- Operating temp. range : -15°C to +55°C
- Frequency stability : ±10Hz (Approx. 5 min. after battery connection)
- Dimensions (Projections not included):
  - Main unit 367(W)×95(H)×260(D)mm
  - Controller (RC-25E) 220(W)×110(H)×84.4(D)mm
  - Speaker (SP-24E) 110(W)×110(H)×84.4(D)mm
- Weight :
  - Main unit 8.5kg
  - Controller (RC-25E) 570g
  - Speaker (SP-24E) 370g

### TRANSMITTER

- Output power (With AT-141) :
  - 1.6–3.999MHz 85W PEP
  - 4.0–27.500MHz 125W PEP
- Spurious emissions : 43dB below peak output power
- Carrier suppression : 40dB below peak output power
- Unwanted sideband : 55dB below peak output power (With 1kHz AF input; at Max. power)
- Microphone connector : 8-pin connector (2.4kΩ)

### RECEIVER

- Sensitivity (at 20dB SINAD; emf) :
 

	J3E, A1A	J2B, F1B	H3E	DSC
0.5–1.5999MHz	30dBμV	–	44dBμV	0dBμV (at 1% error rate)
1.6–1.7999MHz	13dBμV	13dBμV	30dBμV	
1.8–3.999MHz	8dBμV	8dBμV	24dBμV	
4.0–29.999MHz			–	
- Spurious response rejection :
  - 0.5–29.9999MHz More than 70dB
  - DSC More than 70dB (except 1/2 2nd IF image)
- Audio output power (at 12/24V DC) : 4.0W typical at 10% distortion with a 4Ω load
- Clarity variable range : ±150Hz
- Headphone connector : 3-conductor 3.5 (d) mm (1/8")
- Speaker connector : 2-conductor 3.5 (d) mm (1/8")/4Ω

#### Supplied accessories:

- Separation cable, OPC-1466
- External speaker, SP-24E
- Handset, HS-98
- GPS plugs
- Mounting bracket
- DC power cables
- Spare fuses

Measurements made in accordance with EN300 373-2 and EN300 373-3. 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-141 AUTOMATIC ANTENNA TUNER



Matches the transceiver to a long wire antenna with little insertion loss. Antenna and control cable receptacles are easy to install.

### OPC-1465 SHIELDED CONTROL CABLE



10m shielded control cable connects between AT-141 and transceiver. Protects the transceiver from RF feedback.

### MB-108 MOUNTING BRACKET



Stainless steel one-action bracket. Transceiver main unit is easily attached or removed. The photo shows installation example.

### MB-75 FLUSH MOUNT KIT



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

### HM-135 HAND MICROPHONE



Remote function microphone equipped with channel and programmable buttons.

### HS-98 HANDSET



Provides clear audio reception. Same as supplied.

### OPC-1575 SEPARATION CABLE



10m separation cable between controller and main unit.

### OPC-1610 SPEAKER EXTENSION CABLE



5m speaker extension cable for use with SP-24E.

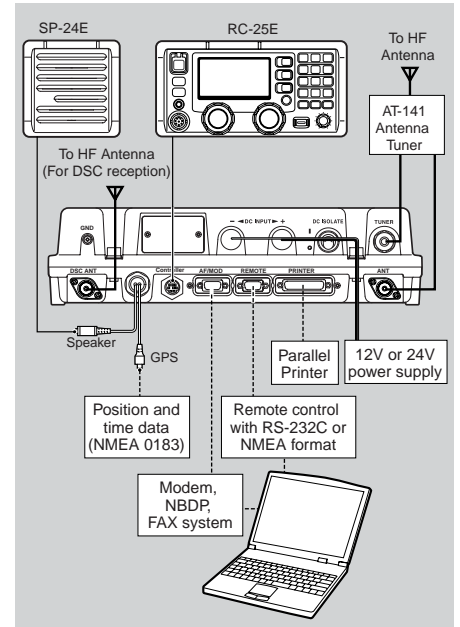
### RC-25E REMOTE CONTROLLER

Remote controller head. Same as supplied.

### SP-24E EXTERNAL SPEAKER

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

## SYSTEM OVERVIEW



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