



MF/HF MARINE TRANSCEIVER

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**

Icom Inc.

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-239×2)
- 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

	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 – 3.9999MHz	8dBμV	8dBμV	24dBμV	
4.0 – 29.9999MHz	–	–	–	

- Sensitivity (at 20dB SINAD; emf) : More than 70dB
- Spurious response rejection : More than 70dB (except ½ 2nd IF image)
- DSC : 4.0W typical at 10% distortion with a 4Ω load
- 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 (⅜")
- Speaker connector : 2-conductor 3.5 (d) mm (⅜") /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

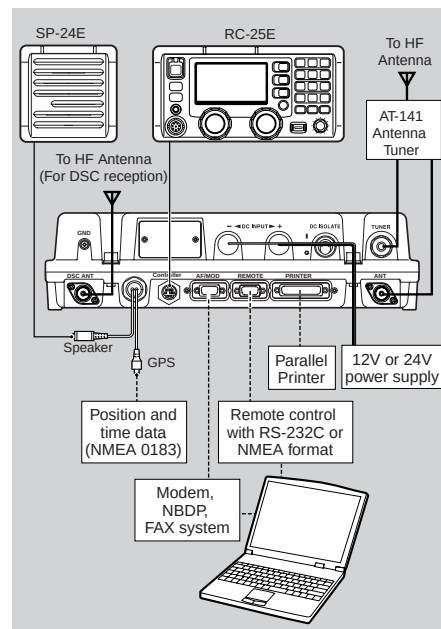


Provides clear audio reception. Same as supplied.

- **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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