

IC-M801GMDSS



Class A DSC safety fundamental com's technology and safety fundamental com's safety fundame

Meets GMDSS requirements

The IC-M801GMDSS is designed for Class A DSC operation. With the optional AT-141 antenna tuner, it provides a complete GMDSS MF/HF communication system as required for Commercial Solas regulated vessels voyaging in the A2 sea area. The radio also meets MED 96/98/EC, "wheel mark" requirements for European merchant ships.

Built-in ITU Class A DSC

An independent DSC receiver constantly watches MF/HF DSC channels, while using another channel. The DSC allows you to call intended ship(s) or coast station(s) directly as well as all ships in the geographic area. A total of 100 MMSI IDs can be stored with a 10-character name. In addition, the self test function allows you to check the DSC functions.

Built-in DC-DC converter

The IC-M801GMDSS has a built-in DC-DC power converter, which provides stable 13.6V DC converted from a 24V DC power supply. A floating ground system is employed.

Optional automatic antenna tuner, AT-141

The optional AT-141, automatic antenna tuner, tunes all frequencies in all modes. It easily connects to the IC-M801GMDSS with the optional shielded cable. If the tuner cannot tune the antenna, the IC-M801 GMDSS bypasses the tuner and displays an alert on the display.

Large LCD with full dot-matrix characters

The IC-M801GMDSS has a large full dot-matrix display which displays frequency or channel name. You can easily read the alphanumeric channel name, operating frequency, DSC setting, time, position, etc. In addition, dimmer and contrast level of the LCD are all adjustable to 10 different levels,

Powerful output power

A powerful 125W* (PEP) transmitter provides long distance communication you can rely on. A large aluminum chassis keeps the radio cool even during high duty cycle operation such as RTTY or E-mail operation.

* 85W (PEP) between 1.6-3.999MHz

Simplified operation

All channels are grouped in 20 channel groups. Large independent group and channel knobs provide quick and easy channel selection. You can also directly enter a channel number from the 10-keypad.

General coverage receiver

Wide band, general coverage receive capability is available from 0.5 to 29.999MHz.

Numerous operating modes

The IC-M801GMDSS provides SSB, AM, CW, FSK and AFSK mode operation. The advanced DSP provides flexible filter settings and optional filters are no longer required for narrow band mode operation.

Versatile configuration

The controller and speaker are separated from the main (RF) unit. The supplied 5m separation cable or optional 10m separation cable (OPC-1575) can be used with the controller.

Rugged construction

The main unit is covered with a rugged aluminum casing, protecting internal parts from impact or salt corrosion. With the optional stainless steel one-action bracket, the main unit can be tightly installed or easily removed from a flat surface.



MF/HF MARINE TRANSCEIVER

IC-M801GMDSS

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Voice squelch control

The VSC (Voice squelch control) function* only opens the squelch, when the radio detects voice componets contained in the signal, while ignoring noise or an unmodulated signal.

* J3E and H3E mode only.

Optional hand microphone, HM-135

The optional HM-135 can be assigned a "P (programmable)" button from which one of the radio functions such as tune, mode or scan can be selected. This function can then be remotely controlled from the microphone.

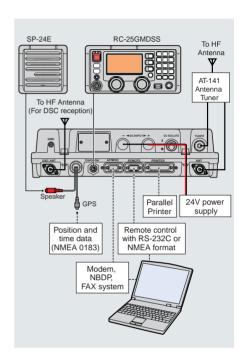
Versatile extensibility

The IC-M801GMDSS has various connectors to connect with external equipment. (See right figure)

- GPS connector
- D-SUB connector for NBDP/FSK
- RS-232C/NMEA connector for PC remote control
- Printer connector

Other features

- · CW full break-in and semi break-in
- Scan resume, program scan and adjustable scan speed
- · Max 160 programmable channels
- · RF gain control





IC-M801GMDSS

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

2.1875, 4.2075, 6.3120, 8.4145, 12.5770, 16.8045 DSC

 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 : 21.6-31.2V DC (floating ground)

Current drain

30A Τx Max. power Rx Max. audio Less than 3.0A • Operating temp. range : -15°C to +55°C

 Frequency stability : ±10Hz (Approx. 5 min. after power on)

• Dimensions (Projections are not included):

367(W)×95(H)×260(D)mm Main unit Controller (RC-25GMDSS) 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-25GMDSS) 570g Speaker (SP-24E) 370g

Measurements made in accordance with EN300 373-1 and EN300 338 for IC-M801GMDSS. All stated specifications are subject to change without notice or obligation.

TRANSMITTER

Output power (at AT-141 output power):

85W PER 1.6-3.999MHz 4.0-27.500MHz 125W PFP

: 43dB below peak output power · Spurious emissions Carrier suppression : 40dB below peak output power : 55dB below peak output power Unwanted sideband (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	0dBuV
1.6 - 1.7999MHz	13dBμV	13dBμV	30dBμV	(at 1%
1.8 - 3.9999MHz	8dBμV	8dBμV	24dBμV	error rate)
4.0-29.9999MHz			-	

• Spurious response rejection

0.5-29.9999MHz More than 70dB DSC More than 60dB 1st image More than 50dB Except 1st image

• Audio output power (at 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 ($\frac{1}{8}$ ") $\frac{4\Omega}{4}$

Supplied accessories:

GPS plugs Mounting brackets Mounting angles

 Handset, HS-98 DC power cables

 Tuner plugs Spare fuses

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



or the SP-24E to a panel



OPC-1465 SHIELDED CONTROL CABLE

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



Remote function microphone equipped with channel and programmable buttons.



SP-24E



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



Provides clear audio reception. Same as supplied

 RC-25GMDSS REMOTE CONTROLLER Remote controller head. Same as supplied.

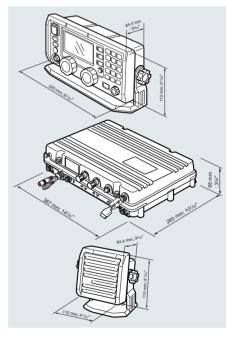
• SP-24E EXTERNAL SPEAKER 4×4-inch external speaker. Same as supplied Input impedance: 4Ω

Asia Icom Inc.

Fix : +886 (02) 2559 1899 Fax : +886 (02) 2559 1874 E-mail : sales@asia-icom.com URL : http://www.asia-icom.com

Max. input power: 7W

DIMENSIONS



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