



# Icom GMDSS Radios

Icom's line-up of GMDSS radio communication equipment includes the GM800 MF/HF radio transceiver, GM600 VHF radio transceiver and the IC-GM1600E VHF radio for survival craft. All these radios comply with the EU Marine Equipment Directive (MED) to be carried and used on ships registered under the European Union.

**GMDSS**  
Global Maritime Distress and Safety System

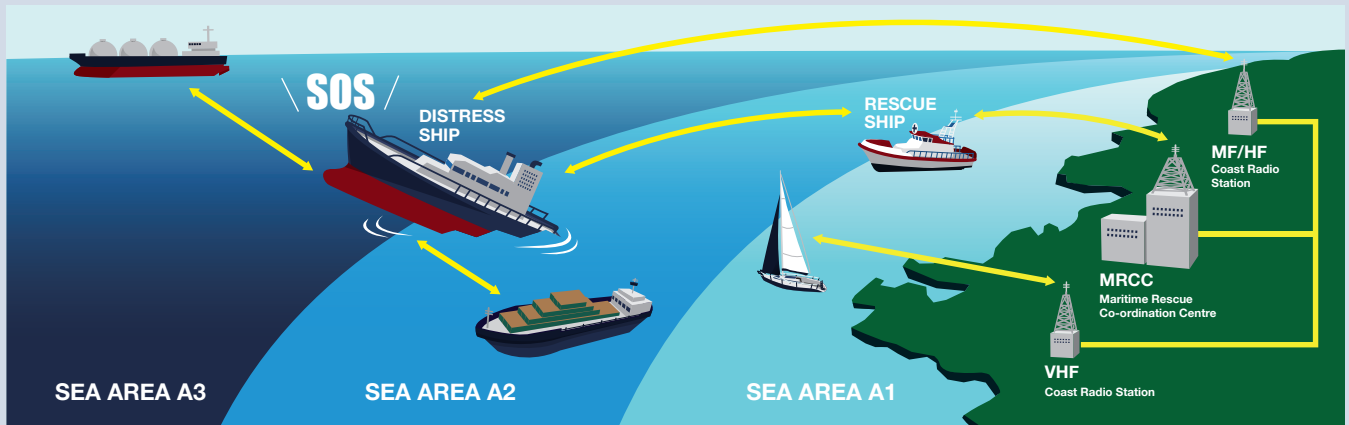


**GMDSS MF/HF/VHF RADIO STATION**

## Operating overview of GMDSS

The Global Maritime Distress and Safety System (GMDSS) is the International radio safety system for ships mandated by the International Maritime Organization (IMO). The GMDSS system provides automated distress alerting and distress communication service with location information.

Ships engaged in international shipping (SOLAS vessels) are obliged to carry GMDSS communication equipment. Also, most governments have specified use of selected GMDSS systems for their regulated domestic vessels and non-regulated vessels are permitted to use any GMDSS system.



## Required GMDSS Communication Radio equipment

Sea Area	Fixed mount radios	Portable radios	Other Equipment
<b>A1:</b> Within the coverage of VHF coast stations	VHF: GM600	2-Way radio for survival craft: IC-GM1600E 2 sets for 300–500 GT cargo ships and 3 sets for all passenger ships and 500 GT or greater cargo ships are required.	<ul style="list-style-type: none"> <li>• SART (Search and Rescue Transponder)</li> <li>• NAVTEX receiver</li> <li>• 406 MHz EPIRB</li> <li>• INMARSAT station</li> </ul>
<b>A2:</b> Within the coverage of MF coast stations	VHF: GM600 MF: GM800		
<b>A3:</b> Ocean areas within INMARSAT coverage. (Below 70 deg North Latitude and above 70 deg South Latitude)	HF: GM800 plus MF: GM800 VHF: GM600		
<b>A4:</b> Out of INMARSAT coverage area. (Polar regions)	GM600 (VHF DSC class A radio) 2 x GM800 (MF DSC class A radio and HF DSC class A radio)		

\* Level of requirements varies depending on model.

## Maintenance

Ships operating in Sea Area **A1** or **A2** must select at least one, and ships operating in Sea Area **A3** and **A4** must select at least two of the following methods of maintenance. Icom GMDSS radios offer an ideal duplication solution for replacement equipment.

- At sea maintenance
- Shore based maintenance
- Duplication of the following equipment
  - Sea Area A1 – a complete VHF radio station
  - Sea Area A2 – a complete VHF and MF radio station
  - Sea Area A3 – a complete VHF and, either MF/HF radio or INMARSAT station
  - Sea Area A4 – a complete VHF and MF/HF radio station

\* In some countries, required equipment may be different. Please ask your dealer for details.

**VHF****VHF MARINE TRANSCEIVER****GM600****IPX7**

(Only for front panel)



# The Latest GMDSS Functionality in a Very

## Satisfies SOLAS Carriage Requirements

The GM600 and GM800 meet the GMDSS (Global Maritime Distress and Safety System) VHF and MF/HF radio requirements as required for SOLAS regulated commercial vessels engaging in international voyage. Both radios meet the MED, "wheel mark" requirements for European merchant ships.

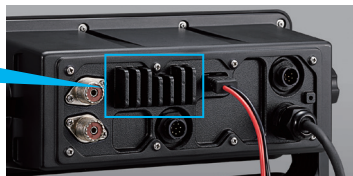
## Meets Strict Environmental Requirements

The GM600 and GM800 meet the Marine Equipment Directive on European marine equipment requirements and have passed rigorous environmental testing and quality assurance processes. These radios are designed to provide reliable operation and long-lasting durability under harsh maritime environments. In fact, the front panel of the GM600 has IPX7\* protection (1 m depth of water for 30 minutes) and the rear panel has corrosion resistance coating.

\* GM800: IPX7 waterproofing for controller.



The rear panel is covered with thermosetting resin coating to resist corrosion.

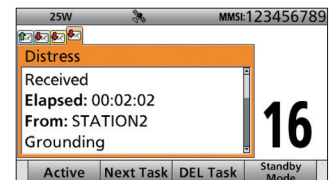


\* Photo shows the GM600.

## Meets ITU-R M.493-13 DSC

### GM600

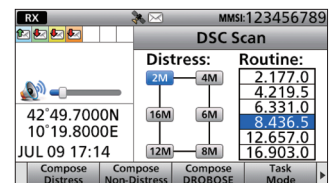
The built-in DSC provides automated distress and safety communication. The dedicated DSC receiver continuously monitors the DSC calling channel (CH 70). The DSC Multi-task mode provides straightforward DSC operation. In this mode, the operating channel is shown at the right side of the display.



DSC Task mode screen (GM600)

### GM800

The dedicated DSC watch-keeping receiver continuously scans the six distress channels in rotation. A total of 100 MMSI members for DSC calls can be stored with a 10-character ID name. The DSC Multi-task function shows up to seven DSC procedures. The GM800 is also capable of sending a distress relay call.



DSC Task mode screen (GM800)

## OPTIONS for GM600

### DC-DC CONVERTER



#### PS-310

Provides stable 12.6 V DC output from 12 V or 24 V DC input, depending on version.

Please Note: PS-310 MUST BE USED with GM600 for MED certification compliance.

### HANDSET



#### HS-98 (#16)

Comes in handy for listening privacy on board.

### HAND MICROPHONE



#### HM-214V

IPX7 waterproof. Same as supplied.

## OPTIONS for GM800

### AUTOMATIC ANTENNA TUNER

#### IP56



#### AT-141 (#45)

45 frequency memories for shorter tuning time.

Please Note: AT-141 MUST BE USED with GM800 for MED certification compliance.