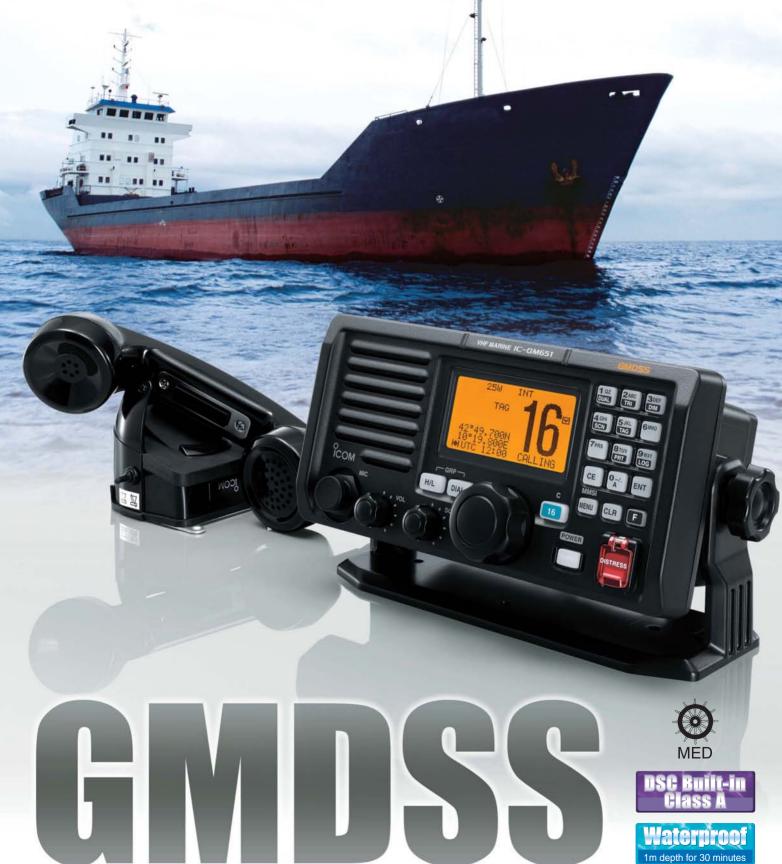




IC-GM651

*Front panel only



Compact, Affordable a Class A DSC Radio Te



Meets GMDSS requirements

The IC-GM651 is a compact VHF radio telephone with Ch 70 watchkeeping receiver and CLASS A DSC functions. The radio meets the GMDSS requirements as required for SOLAS regulated commercial vessels engaging in international voyages. With the optional PS-250 DC-DC power supply, the IC-GM651 also meets MED 96/98/EC, "wheelmark" requirements for European merchant ships.

Built-in ITU Class A DSC

An independent DSC receiver constantly watches Ch 70 VHF DSC channel, while using another channel. The Class A DSC provides automated distress and safety communication. Received distress signals can be relayed to a coast station. A total of 100 MMSI IDs can be stored with a 10-character name.

PS-250 DC-DC power supply and PS-240 AC-DC power supply available

The optional PS-250* DC-DC power supply offers stable 12.5V power to the IC-GM651 from a 12V/24V DC (10.8–31.2V DC) power source and provides floating ground connection. The optional PS-240 AC-DC power supply unit is also available with the PS-250. When connecting a storage battery to the PS-240, the PS-240 automatically switches the power source for backup, even if the AC power fails.

* The PS-250 MUST BE USED with the IC-GM651 for MED certification compliance.

HS-98 Handset and/or HM-126RB-1 speaker-microphone selectable

The IC-GM651 gives you the choice of a handset and/or speaker-microphone. The handset provides clear audio even in noisy environments. The speaker-microphone has a remote control function to control operating channel and transmit power with dedicated buttons.

Rugged and waterproof construction* for professional use

To withstand harsh marine environments, the IC-GM651 has been tested to and passed the rigorous salt spray test. In addition, the front panel of the IC-GM651 has waterproof protection equivalent to IPX7 which withstands 1m depth of water for up to 30 minutes.

* The front panel of the IC-GM651 only.



and High Performance elephone









Front panel only.

VHF MARINE TRANSCEIVER

* The photo includes optional PS-250 DC-DC power supply and HS-98 handset

Large full dot-matrix display

The large full dot-matrix display provides an easy-to-see user friendly graphical interface. DSC operations can be made easily with the operation guide on the bottom line of the display

such as "ENT" to Set (OK), "CLR" to Go back (BACK), "F8" to Print (PRT), etc. The message icon () on the display shows you have a new DSC message.



Superior receiver performance

The IC-GM651 has excellent receive performance which allows a weak signal a better chance of being heard when louder signals are around it. The powerful audio output from the front facing large 66mm diameter speaker further increases the audibility and quality of received calls.

Slim dimensions for clean installation

The 109.4 mm * depth and 4×8" stylish design is easy to install into a limited space. Flush mount installation is available with the MB-75 flush mount kit.

(* Projections are not included.)

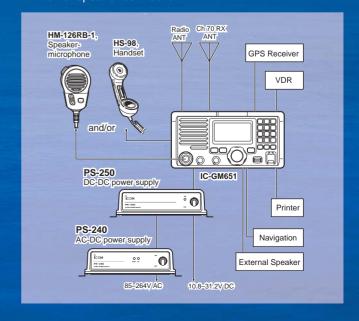
Other features

- Priority/normal scan
- Dualwatch/Tri-watch functions
- Instant access to Ch. 16 and call channel
- 7 level adjustable backlit display and keypad
- AquaQuake water draining function

Versatile extensibility

The IC-GM651 has various connectors to connect with external equipment.

- VDR (Voyage Data Recorder) connector
- Printer connector (D-SUB 25-pin)
- GPS receiver connection: IEC61162-1 input
- Navigation equipment connection: IEC61162-1 output
- External speaker connection



IC-GM651

SPECIFICATIONS

GENERAL

Frequency range

156.000-161.450MHz **Transmit** 156.000-163.425MHz Receive Ch. 70 receiver 156.525MHz

• Mode : FM (16K0G3E), DSC (16K0G2B)

• Usable channel group: INT channels

 Power supply : 12/24V DC (10.8-31.2V requirement with PS-250)

• Current drain (IC-GM651 with PS-250 (at 24V)): 3.5A (approx.) Tx 25W 1.0A (approx.) Rx Max audio

• Operating temperature: -15°C to +55°C range

• Antenna impedance : $50\Omega \times 2$ (SO-239)

• Weight

IC-GM651 1.6kg (approx.) PS-250 2.1kg (approx.) VDR interface : Balanced 600Ω Floating Ground

> Audio level Tx/Rx -4dBm/-3dBm typ.

(at 1kHz, ±3kHz deviation)

· Compatible DSC data sentences :

Input RMC, GGA, GNS, GLL

DSC, DSE Output (Complies with IEC 61162-1:2000 requirements)

Measurements made in accordance with EN301-925. These specifica-tions are valid when the IC-GM651 is used with the PS-250. All stated specifications are subject to change without notice or obligation.

TRANSMITTER

 Output power : 25W/1W • Max. Freq. deviation: ±5.0kHz • Frequency error : ±0.3kHz

• Spurious emissions : Less than 0.25µW • Adjacent Ch. power : More than 70dB • Residual modulation : More than 40dB Audio harmonic : Less than 10% distortion (at 1kHz, 60% deviation)

RECEIVER

• Intermediate frequency (1st/2nd):

21.7MHz/450kHz Radio Ch. 70 receiver 30.15MHz/450kHz

• Sensitivity (at 20dB SINAD) :

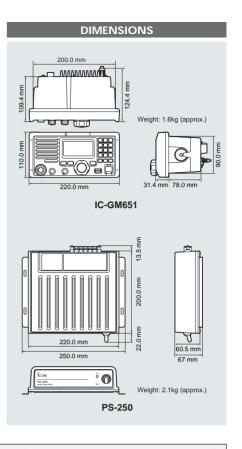
Radio -5dBµ emf typ. Ch. 70 receiver -5dBµ emf typ. • Squelch sensitivity : Less than -2dBµ emf • Adjacent Ch. selectivity: More than 75dB • Spurious response : More than 73dB Intermodulation : More than 75dB Hum and noise : More than 45dB

• Audio output power : 2W (at 10% distortion with a

 4Ω load, used with PS-250)

Supplied accessories:

• DC power cable Mounting bracket kit (Microphone and handset are options.)



OPTIONS



Provides clear audio re-

Some options may not be available in some countries Please ask your dealer for details



Speaker-microphone equipped with channel up/down and transmit power buttons.



For flush-mounting the IC-GM651 to a flat surface, such as a control panel.



Provides 14.5V DC (7A) output from an AC input (85-264V).



Provides stable 12.5V DC (5.3A) output from 12V/24V DC input (10.8-31.2V).

Please Note: PS-250 MUST BE USED with IC-GM651 for MED certification compliance.

Complete GMDSS communication station



When set up with the IC-M801GMDSS MF/HF radio, Icom offers you a complete MF/HF/VHF GMDSS communications station. The IC-GM1600E survival craft radio is also available.

URI · http://www.icom.co.in/world/index.html

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