

VHF GMDSS TRANSCEIVER with CLASS A DSC

GM600



Day mode display

GMDSS

Global Maritime Distress and Safety System

Reliable Performance and Clean Graphical User Interface

ITU Class A DSC Facility

New Intuitive User Interface for Straightforward Operation

10W Audio Output Power with External Speaker

Satisfies the SOLAS Carrying Requirements: GMDSS and MED

Large and High Contrast 4.3 inch TFT Color LCD with Day and Night Mode

IPX7 Waterproof Construction

Compact Body for Simple Installation









Compliant with GMDSS

The GM600 meets the GMDSS requirements as required for SOLAS

regulated commercial vessels engaging in international voyage. With the optional PS-310 DC-DC converter, the GM600 meets the MED, "wheel mark" requirements for European merchant ships.



ITU Class A DSC Facility

The GM600 has a dedicated DSC receiver which continuously monitors

CH 70 and is independent of the main receiver and other operation. The DSC Multi-task function allows you to show up to 7 received and transmitted DSC messages. While using the DSC Multi-task screen, the operating channel is shown at the right side of the screen.



DSC Multi-task screen



Large 4.3 inch Color TFT LCD

The color TFT LCD offers userfriendly icons and display design.

The improved font allows quick recognition of alphanumeric characters. You can select the day and night modes according to the lighting conditions.

SPECIFICATIONS

GENERAL	
Frequency range Tx Rx CH70	156.025–161.600MHz 156.025–162.000MHz 156.525MHz
Usable channels	INT channels
Type of emission	16K0G3E (FM), 16K0G2B (DSC)
Power supply requirement	24V DC (21.6–31.2V DC) with PS-310 (#01)
Current drain (approx.) Tx 25W output Rx Max. audio	3.3A (with PS-310 #01) 2.0A (with PS-310 #01)
Operating temperature range	-15°C to +55°C
Antenna impedance	50Ω (SO-239)
Weight (approximately)	1600g
TRANSMITTER	
Rated output power	25W, 1W
Max. frequency deviation	±5.0kHz
Frequency error	Less than ±0.5kHz
Spurious emissions	Less than 0.25µW
Residual modulation	More than 40dB
Adjacent channel power	More than 70dB
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Intuitive User Interface

Menu items are shown with userfriendly icons and that can be navi-

gated via the main dial knob or the up and down keys. Often-used functions are lined up at the bottom of the display and they can be toggled with the left and right keys.



Menu display

10<u>v</u>

High Quality Front Speaker

The built-in 57mm diameter front speaker is waterproofed and pro-

vides clear audio from bass to treble. When connected with an external speaker, the GM600 offers powerful 10W audio output so that you can clearly hear voice and sound even in a noisy place.

And More

- IPX7 waterproof construction for the front panel (1m depth of water for 30 minutes)
- The PS-310 DC-DC power supply for floating ground connection
- NMEA 0183 interface for GPS connection
- Supports new VHF marine channel plan effective from January 1st, 2017
- Compact body for simple installation

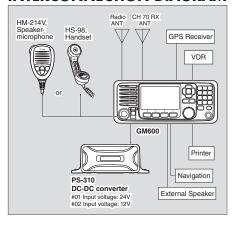
RECEIVER	
Intermediate frequency	30.15MHz, 450kHz (1st/2nd)
DSC receiver	46.35MHz, 450kHz (1st/2nd)
Sensitivity 20dB SINAD	Less than -7dBµ emf. typ.
DSC (1% BER)	Less than -7dBµ emf. typ.
Adjacent channel selectivity	More than 75dB
DSC receiver	More than 73dBµ emf
Spurious response	More than 75dB
DSC receiver	More than 73dBµ emf
Intermodulation	More than 75dB
DSC receiver	More than 73dBµ emf
Hum and noise	More than 40dB
Audio output power	10W with 4Ω load
	at 10% distortion

Measurements made in accordance with EN 301 925 All stated specifications are subject to change without notice or obligation.

Applicable IP Rating

Ingress Protection Standard	
Water	IPX7 (1m depth of water for 30 minutes)

INTERCONNECTION DIAGRAM



OPTIONS



Provides 12V output from either 12V or 24V DC input, depending on version



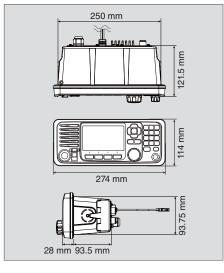
HM-214V SPEAKER-MICROPHONE Same as supplied.

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

Supplied accessories:

- Hand microphone, HM-214V
- · Mounting bracket kit
- DC power cable

DIMENSIONS



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