

GMDSS Simulators



Features

- > Realistic GMDSS equipment, either virtual or physical
- > Available as a 100% software solution installed on a Windows PC.
- > Global coverage and simulation within all four Sea Areas
- > Supports VOIP communications
- > Configurable as single student or classroom trainer

Buffalo Computer Graphics (BCG) has three different Global Maritime Distress and Safety System (GMDSS) simulation systems to meet the needs of the training community. BCG offers a completely virtual system (shown below) installed on a single Windows PC. The second option is our virtual GMDSS packaged in a table-top unit for bridge applications which resembles a real-world GMDSS console. As second solution for a full mission bridge, BCG offers a console system comprised of modified real radios and other GMDSS components that transmit over a network. All of these trainers provide students with virtual or simulated communication equipment to aid in understanding GMDSS operational procedures and functions. BCG's multiple offerings allow the GMDSS trainer to be tailored to meet individual budgetary or curriculum requirements.

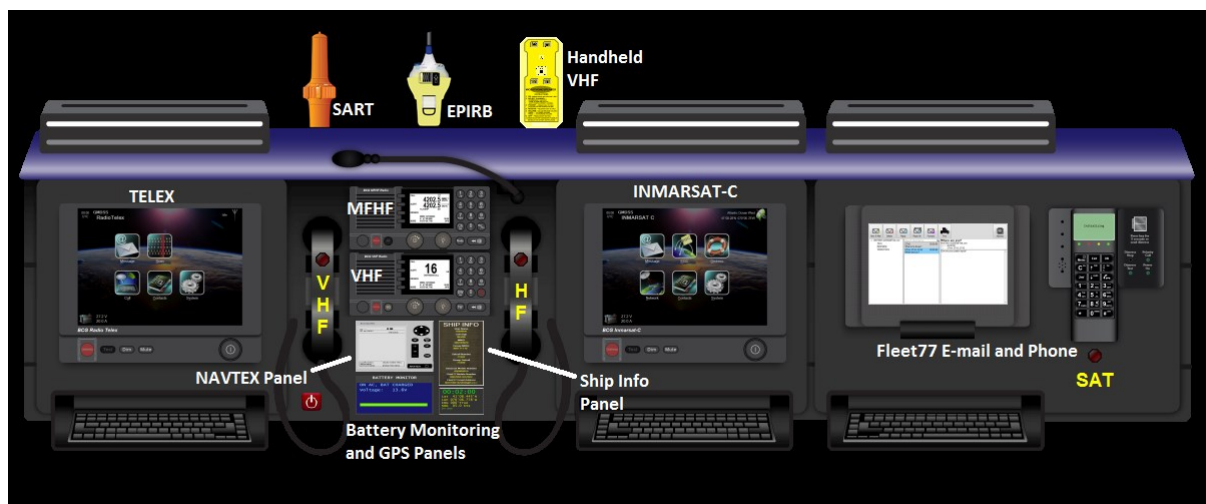
BCG's Virtual GMDSS (VGMDSS) console is designed for a single PC. The console image is shown at all times with the radios and other GMDSS components appearing as larger windows when selected by the student.

Our two GMDSS console trainers may be used for multi-student operation since the radios, Inmarsat-C and Radio Telex terminals operate independently, just like they would on a ship in the real-world. The GMDSS console design is composed of two monitors with the same virtual panels used by the VGMDSS software only the individual communication components are always full size. The real equipment console is made of physical radios and GMDSS components that have been altered to eliminate RF transmissions but still allow transmitting over a network connection.

All GMDSS Simulators are instructor controlled through our GMDSS Maritime Simulation Tool (G-MaST). This interface allows for exercise creation, dynamic control and event logging. Additionally, audio and digital message links allow the instructor to monitor communications and serve as a vessel within the scenario, a coast radio/earth station, or rescue coordination center. Exercise locations and GMDSS stations are selectable from a worldwide GMDSS database. Automated maritime safety information broadcasts can be preprogrammed or instructor initiated.

Each student station operates as its own ship during the exercise and is completely independent from other vessels. This capability allows for team training.

The software can be used with Windows XP, 7, 8, or 10. All stations operate on a simple LAN making expansion simple and allows for system growth as your training requirements increase.





GMDSS Console comprised of modified real radios

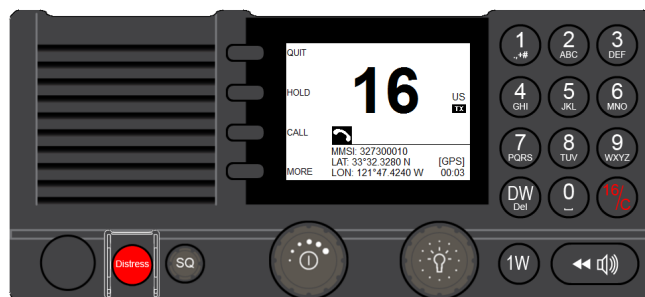
VGMDSS Simulator Features:

The VGMDSS software consists of the following components:

- ◇ VHF DSC Radio
- ◇ MF/HF DSC Radio
- ◇ NAVTEX Receiver
- ◇ Sailor 6300 MF/HF Radio Telex Application
- ◇ Fleet 77 Phone and E-mail Application
- ◇ Sailor 6110 Inmarsat-C
- ◇ Handheld Emergency VHF Radio
- ◇ SART and EPIRB
- ◇ Battery Monitoring Panel
- ◇ Dual handsets with speaker
- ◇ Printer support



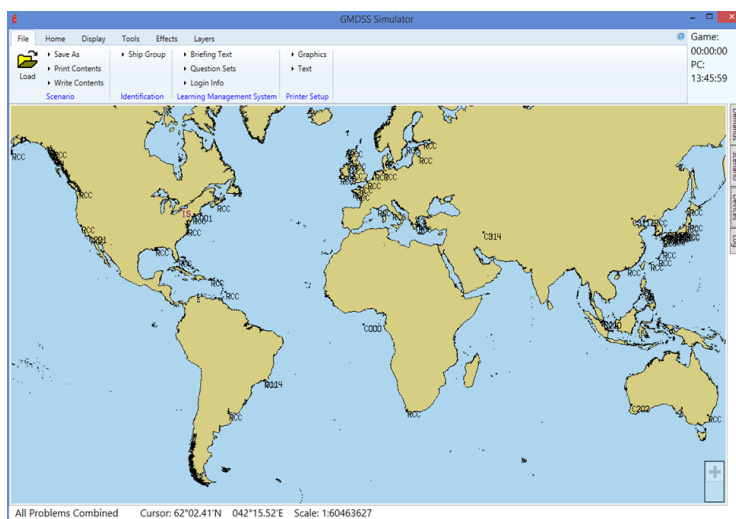
Table-top console running virtual applications. Optional standalone UHF radio and touch-screens are shown



Virtual VHF DSC Radio

G-MaST Features:

- ◇ Controls up to 32 different students
- ◇ Instructor can role play as shore station or another ship anywhere in the world
- ◇ Save, replay, and edit an endless number of scenarios that include text or canned audio messages to be replayed automatically at scheduled times.
- ◇ Easily draft and send IMC, TELEX, E-mail and other text messages.
- ◇ User-friendly interface for monitoring students' radios and other devices
- ◇ Triggers power outages and other interruptions to the training experience.



G-MaST Screenshot

Contact BCG for information and pricing on our full line of Maritime Simulation products.

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