

# BCG

## BUFFALO COMPUTER GRAPHICS



*Simulated GMDSS System by BCG*

Long a leader in radar simulation, Buffalo Computer Graphics (BCG) now offers a realistic GMDSS Training System. The BCG approach uses computer stimulated real radio panels or Virtual radio panels along with actual INMARSAT terminals, Telex terminals and Navtex receivers. The system provides the user with all the essential elements necessary for training the complexities of GMDSS. BCG's GMDSS Training System is designed to be compliant with existing performance standards of the USCG and other authorities.

### ***Product Feature***

- \* Realistic GMDSS equipment operation without live emissions
- \* Uses Voice Over IP (VOIP) technology
- \* Real or Virtual MF/HF and VHF radio panels with DSC capability
- \* Automated watch keeping and distress message features
- \* Realistic voice communications with noise squelch and propagation effects
- \* Real NAVTEX receiver and printer with all features active
- \* Real INMARSAT- C, INMARSAT- B and NBDP Telex Terminals with printers
- \* PC based Instructor control station with Graphical User Interface (GUI)
- \* Dynamic scenarios with moving ships that may be in different problems
- \* Networked student consoles with graphical presentations of the exercise situation
- \* EPIRB and SART control. EPIRBs and SARTs may be launched by the student or the instructor. SARTs can also be displayed on a BCG simulated radar
- \* Modular system that is easily tailored to fit existing budgets and future needs

### General Description

Our GMDSS Training System is designed to meet the needs of those schools providing GMDSS courses. This trainer provides students with **stimulated** real-communication equipment to aid in understanding and implementing GMDSS operational procedures and functions. BCG incorporates fully functional GMDSS hardware panels and software terminals, to provide the utmost in realism for training.

BCG's modular design allows system tailoring to meet individual budgetary or curriculum requirements. The number of student stations, as well as the equipment at each station, can be varied. Each GMDSS console may be used for multi- student training since the radios, Inmarsat-B, Inmarsat-C and Radio Telex terminals operate independently as in the real world.

The Instructor Control Station provides dynamic exercise creation, control and event logging. Audio and digital message links allow the instructor to monitor communications and serve as a coast radio/earth station or rescue coordination center. Exercise location and GMDSS stations are selectable from an on-line worldwide GMDSS database. Automated maritime safety information broadcasts can be preprogrammed or instructor initiated.

A Student Station PC and monitor provide a color exercise situation display with provisions for briefing and debriefing text under instructor control. On line examinations may also be initiated by the instructor for student station display and response entries. Each Student Station represents a ship in the exercise with complete independence from other student vessels.

All stations operate under the latest Windows OS with data exchanged via a standard ethernet network connection. The BCG system is easily expandable to allow system growth as your training requirements increase.

### Typical System Configuration

#### Instructor Station

- Instructor Desk and equipment cabinet
- Pentium PC workstation with Graphical User Interface (GUI) and 17" LCD monitor for exercise control
- Printer
- MF/HF and VHF radios networked with each student station
- Online student briefing text
- Online examination package

#### Student Station(s)

- Furuno NX-500 Navtex Receiver/Printer
- Trimble Galaxy Inmarsat-C Telex Terminal with printer
- SEA Seator 3000 Radiotelex Terminal with printer
- Inmarsat-B Satellite Telephone / Telex Terminal
- SEA 3300 MF/HF or Virtual MF/HF Radio Control Panel
- SEA 7000 DSC or Virtual DSC Controller
- SEA 7157 VHF/DSC or Virtual VHF Radio/DSC
- SART & EPIRB activation panel
- Pentium PC and 17" LCD monitor for student interaction
- VOIP digital transmission with No RF Emissions
- NMEA-0183A output to external simulators
- Other manufacturer's equipment is available

#### 1 Year Warranty

### Low Cost GMDSS Training

Buffalo Computer Graphics also offers a low cost alternative for GMDSS training. Our PC-Based 'Virtual' radio panels allow a school to provide students with GMDSS training using PC screen images of GMDSS communications equipment. Contact BCG for further information.

For additional information, contact:

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