

PCBMEBridgeMaster-E Emulator



The PCBME ARPA Radar Emulator models the Sperry BridgeMaster-E¹ Radar Display and is one of many radar products in the Buffalo Computer Graphics' (BCG) family of successful PC-based simulators. It is a powerful, low-cost training tool to familiarize a student with the use of a real ARPA radar for ship navigation and collision avoidance.

Features

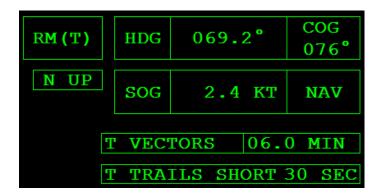
- > Windows-based radar emulation software
- > Simulates user interface of the Sperry Bridge-Master-E Radar
- > Realistic 3D radar imagery
- > Full radar graphics support
- > User interface operates from trackball or touch monitor
- > IMO Compliant AIS Support

The 3D radar imagery incorporates realistic simulation of landmass, moving targets, precipitation returns, sea clutter, and other effects seen on a real radar display. The radar operational features include radar video controls, dual EBL & VRM, multiple presentation modes, graphics capabilities and range scaling. For ARPA support, PCBME provides target acquisition & tracking, leading vectors & history trails, trial maneuvers, and navigation points.

The PCBME user interface models the real BridgeMaster-E for use by the US Navy, US Coast Guard, and commercial schools for shore-based training applications. PCBME was developed using BCG's industry standard radar simulation engine, is compatible with our Maritime Simulation Tool (MaST), may be used in conjunction with our PCS-200 radar simulators, or can be controlled through a simple network interface. PCBME is available in a software only package ready for installation on a customer's PC or BCG also offers "turn key" systems packaged in multiple configurations including a rack mounted chassis, a desktop PC or a laptop PC for classroom use, and even a deck stand console for more of a shipboard presentation.

4185 Bayview Road ~ Blasdell ~ New York ~ 14219 ~ 716-822-8668 ~ www.bcgeng.com

SIMULATED RADAR IMAGES







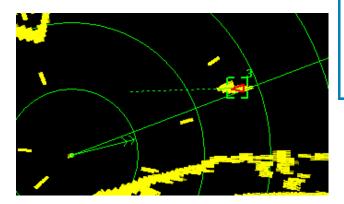
PCBME Features:

The PCBME supports the primary operating features and modes of a real radar display. These include:

- ♦ STC, FTC, and Gain Control
- ♦ Heads Up, Course Up, and North Up Display Modes
- ♦ Relative or True Presentation
- ♦ Two Variable Range Markers (VRM)
- ♦ Two Electronic Bearing Lines (EBL)
- ♦ Manual Target Acquisition and Tracking
- ♦ Graphic Auto Acquisition Zones
- ♦ Ownship and Target Data Windows
- ♦ Radar Image Offset
- ♦ Track Histories
- True or Relative Vectors
- System Alerts
- Trial Maneuvers
- ♦ Daytime / nighttime color modes
- Continuous Cursor position display
- ♦ NMEA-0183 TTM & TLL output message support
- Control using the GUI2, BCGUDP, HLA, or DIS Interface
- Receives and displays IEC Automatic Identification
 System (AIS) sentences
- Available as software-only or turn-key system
- Multiple PCRadar units may be controlled by a single instructor for individual or team training
- Scenario & Radar Databases are compatible with all BCG radar products

TARGET 03

MMSI 111111112
CALL SIGN DDG-52
NAME USS BARRY
DEST PEARL HARBOR
TYPE Vessel
HEADING 268°
POSN ACC >10m
Underway



PC Requirements:

- ♦ Windows XP, WIN7, WIN8, or WIN10
- ♦ Multi-core processor, >2GHz
- ♦ 2GB memory
- ♦ 500MB disk
- ♦ 100/1000 NIC
- ♦ USB for Trackball or Touch Screen Monitor
- ♦ RS232 Serial Port (for NMEA output)

To further enhance the training experience, BCG offers several different products which allow the student to control the motion of the Ownship. These conning solutions integrate seamlessly with PCBME and can be either software add-ons or full steering consoles. Contact BCG for additional information.

AIS TARGET SYMBOLS

Compliant with the International Maritime Organization Guidelines for the Presentation of Navigation Related Symbols SN/Circ.243, the AIS Target Symbols enhance the recognition of other vessels on the PCBME display. The AIS Target Symbols are not masked by other ships or land masses, nor are they obscured by sea or rain clutter. By referencing the ROT flag at the tip of the heading vector, the user can quickly identify if a target is turning. Dangerous and lost targets are also easily detected with their bold, red symbols.

LOW COST ALTERNATIVE TRAINING

Training which utilizes standard desktop PCs running Windows software is an economical path for many training facilities. PCBME is offered as a pre-installed 'turnkey' radar trainer including all computer hardware and software; or may be purchased as software-only ready to install and License on your own computers. Multiple PCBME stations can be networked together in a classroom setting. student may be configured to operate as a single radar platform (all students see the same radar image) or as independent radar platforms (students see each other on the radar) operating in a common training environment. With both configurations, the student maintains independent control of his or her radar display and the operating settings. As with all BCG simulators, the instructor has full control of the simulated radar environment and what the student experiences.