



Overview

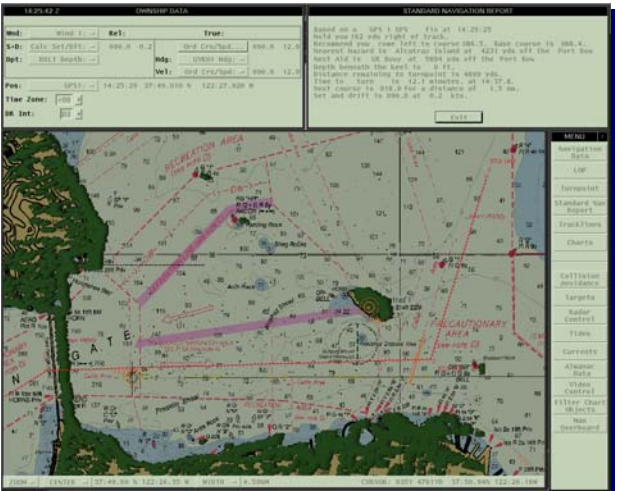
The PCS-100 Integrated Navigation Simulator (INS) is the latest addition to Buffalo Computer Graphics' (BCG) family of successful PC based radar simulators.

The PCS-100 INS was designed in a joint venture between BCG, SSR Engineering Inc., SFA, Inc., and The Skip'r, LLC. It was designed specifically for use by the US Coast Guard and US Navy in shipboard and shore based training, testing and evaluation applications. Using BCG's industry standard simulated radar images and simulation engine, it provides navigation data and radar images for the COMDAC INS and Surface Search Radar (SSR PC-RP or SPS-73) systems. The PCS-100 INS is available in multiple packaging configurations with a laptop or shock mounted chassis available for shipboard use, and a standard desktop chassis for classroom use.

The original PCS-100 Radar Simulator was designed to interface with stand-alone radar equipment using traditional analog radar signals that require installations with actual radar processing equipment. The PCS-100 INS, however, is capable of providing navigation sensor data radar image and target tracking data directly to the COMDAC INS and radar(s) using only a network connection. This allows training to be provided at a reduced cost without dependency on actual radar processing equipment.

Features

- Provides simulation/stimulation capability necessary to test COMDAC INS navigation displays (including capabilities designed to meet ECDIS-N requirements for NAVSSI)
- Provides the ability to train all functions of the COMDAC and NAVSSI navigation displays either in standalone or multiple operator exercises
- Provides ability to train all operational capabilities of COMDAC INS and NAVSSI navigation displays
- Allows shipboard personnel to practice navigational maneuvers and approaches into harbors prior to the actual maneuvers
- Allows exercises to be recorded and later replayed for critique and evaluation
- All scenarios and databases are compatible with the PCS-100 Radar Simulator
- Offers multi-Ownship capability through simple network expansion



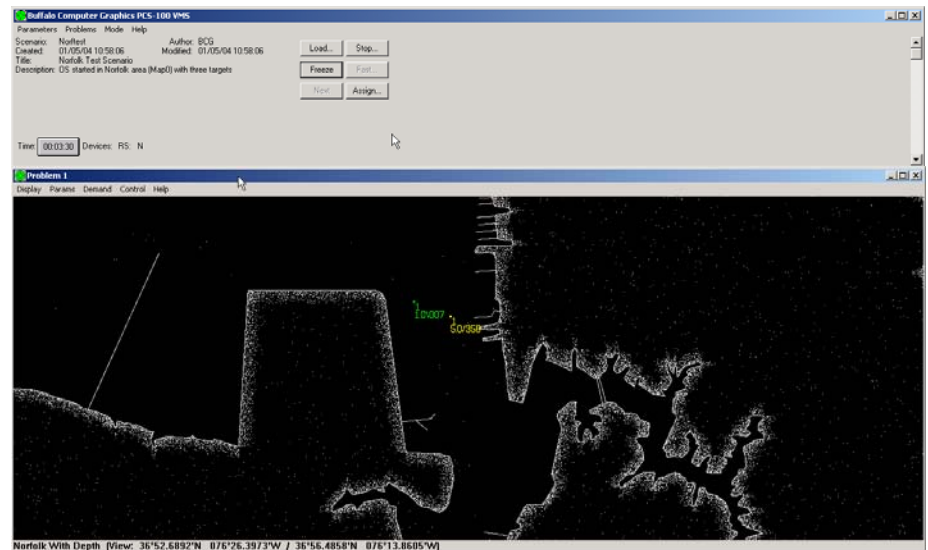
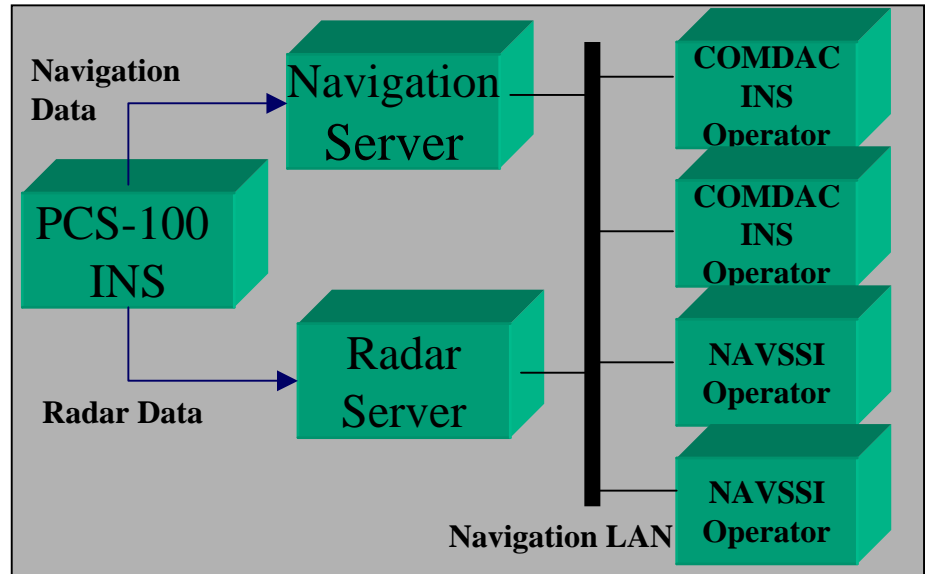
PCS-100 Integrated Navigation Simulator



The PCS-100 INS includes a single radar interface, 40 targets, landmass capability (with 3 free databases), weather clutter, noise and sea clutter video presentations. The one ownship system is controlled by the operator at a Graphical User Interface (GUI) workstation. For multi-ownership configurations, multiple PCS-100 INS systems can be networked together and controlled from a single GUI. Each ownship acts as an independent node in the simulator network. The GUI workstation may be remotely located from the PCS-100 INS unit(s) and remotely controlled through an Ethernet connection.

Additional Optional Capabilities

- Interface with BFTT for scenario exchange
- Enhanced Radar Simulation functions, including:
 - RTS / SDS simulation
 - STC / FTC Control
 - Added tracking capability
- Additional radar images
- Integration with Standard PCS-100 for Stimulation and Simulation functionality
- Integration of simulator into existing Navigation/Radar systems
- Available Configurations:
 - Model 121 2U Rack Mount
 - Model 421 Laptop Simulator
 - Model 521 Desktop Simulator



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