BCG
Buffalo Computer Graphics

FurunoSim / EchoSim

Modern radar systems are migrating to a network centric design, so BCG now offers our radar simulators with industry standard or proprietary network outputs. To support the Furuno line of radars, BCG's FurunoSim (FAR-21x7) and EchoSim (FAR-22x8 & FAR-3000) operate in place of a real Furuno radar scanner to deliver a simulated radar image to a real Furuno radar processors or an electronic chart display and information system (ECDIS). This software also processes control messages for settings such as standby/transmit, range scale, pulse width, gain, FTC and STC filters, X-Band/S-Band modes, echo stretching, interference rejection, blanking sectors, as well as maintaining tracked targets that come from the display while performing automatic ARPA processing.

FurunoSim / EchoSim are integrated with BCG's high fidelity radar image generation engine and our Maritime Simulation Tool (MaST) operator interface to provide a solution that offers superior radar simulation. Either package may also run simultaneously with other BCG products for those instances where a user has the need for both real radar, charting, ship controls and our radar emulation products.

Using MaST, an operator can create and control different training and testing scenarios as a Standalone controller. MaST may also be controlled by another training system in a Slave configuration allowing the BCG radar to be integrated into larger systems. The Slave interface can be implemented using a BCG API or simple NMEA-0183 messages.

FurunoSim / EchoSim can be purchased as software-only, or be provided as an integrated system installed and tested on a Windows workstation.

BCG's current radar simulation efforts including 3D rendering of radar images using our stimulators (PCS-4xx), our network simulators (we support the Furuno interface, ASTERIXSim and others) and our radar emulators (multiple offerings). Each product provides full NMEA-0183 support, Automatic Identification System (AIS) simulation, Slave interface capability, and integration with charting systems. Contact BCG for information on all of our Maritime Simulation Products.

Features

- Windows-based radar simulation software.
- Usable for radar or radar overlay stimulation.
- Can be used for training or testing purposes.
- Can be used simultaneously with other BCG radar products or emulators.
- Supports common radar scanner control messages.
- Handles up to 100 tracked targets at a time.

BCG is committed to support and promote Maritime Systems in all aspects of their business.

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