Maritime Simulation Tool (MaST)

BCG
Buffalo Computer Graphics

Control of Buffalo Computer Graphics' (BCG) radar simulators is through our instructor software called the Maritime Simulation Tool (MaST). Our MaST application provides full control over all training elements utilizing a simple, modern and powerful user interface.

The MaST application utilizes BCG's 30+ years of experience in maritime simulation to provide the operator with an easy to use yet extremely thorough interface for controlling a training scenario. The MaST can control up to 32 ownships and 1,000 targets in up to 8 separate problems. In addition to controlling the ownships and targets, the software allows control of environmental conditions, radar parameters, vessel handling characteristics, scenario timeline, and geographic location for all entities. MaST may be used by itself for NMEA and AIS simulation, with the BCG PCS-2xx, & PCS-3xx units, BCG's Network Radar Simulators, and all BCG radar emulators.
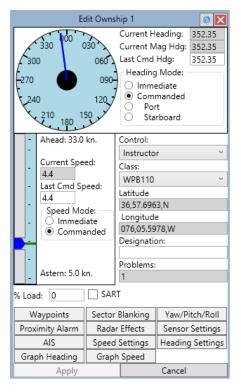
MaST is available as a software-only package to be installed on a customer's Windows 7 or 10 computer, or as a turnkey work station with the software installed and tested on a computer.

MaST may also be configured to function as a slave to a third party simulation system, allowing an existing system to control BCG radar products through either our proprietary network interface (BCGUDP), HLA, or DIS packets.

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MaST Features:

The MaST allows the operator to control or modify the following elements in any given scenario:

- ∗ Ownship speed, heading, location, and radar parameters
- ∗ Target speed, heading, location, and other parameters for up to 1,000 target ships
- ∗ Vessel characteristics including: dimensions, rudder response time, acceleration and deceleration rates, maximum turn rate, and other handling parameters.
- ∗ Unlimited number of scenarios
- ∗ Environmental conditions including: wind direction and speed, sea state, precipitation level and intensity, and set and drift.
- ∗ Built-in Automatic Identification System (AIS) capability
- ∗ NMEA-0183 sensor data generation
- ∗ Dual VRMs and EBLs
- ∗ Five customizable Demand Windows including details such as CPA/TCPA, Position, Range/Bearing, and Bow Crossing Range/Time for any active ownship or target
- ∗ Instant Demand Panel to quickly see critical vessel information
- ∗ Simulation of equipment failures or induced errors

Ownship Window

Instant Demand Pop-up

Home Ribbon

Display Ribbon

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