

VSS & VSC

Virtual Steering Stand & Virtual Steering Control



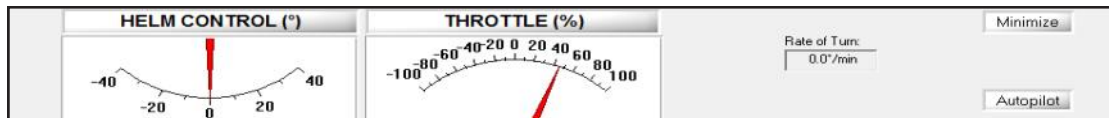
Features

- > Independent Ownership Control for each student
- > Manual Mode for rudder and throttle controls
- > Autopilot Mode for direct Speed and Heading input
- > Support for single or twin engines
- > Real time data feedback
- > No special hardware required



To enhance both radar and ship navigation training, Buffalo Computer Graphics offers two programs that provide the student with direct control of Ownship motion without interaction from the instructor. The Virtual Steering Stand (VSS) program, shown above, has a full screen display of controls, gauges, and sensor data that the student would need to safely and efficiently control their Ownship. The VSS allows the user to configure what data is to be displayed on the gauges, and what units are to be used. The Virtual Steering Control (VSC) program, shown below, provides basic Ownship controls and feedback allowing the student to change their Ownship course or speed while operating on the same monitor as a simulated radar or chart presentation.

Both the VSS and the VSC feature two operating modes, manual steering or autopilot, that the student can choose from. If manual steering is engaged, rudder angle and throttle percentage are controlled by the student. If autopilot mode is selected, course and/or speed are entered directly into the program. Both the VSS and VSC utilize the ship handling characteristics as defined by the instructor and assigned to the student's vessel.



Manual Controls



Autopilot Controls

VSS Features:

- ◆ Uses a dedicated monitor to provide a full range of ship controls and data
- ◆ Additional information on screen increases the student's situational awareness
- ◆ Operates in real time for both controls and feedback data
- ◆ Supports both single or dual engine configurations
- ◆ User defines what data and what is to be displayed in feedback gauges
- ◆ Meets USCG requirement to have ship controls separate from radar display

VSC Features:

- ◆ Runs on same monitor as radar or chart display
- ◆ Minimizes to small control bar when not being used
- ◆ Low cost steering control option for each student
- ◆ Supports both single or dual engine configurations
- ◆ Supports basic ship maneuvering controls using customizable vessel characteristics
- ◆ Simple student interface with real time feedback of commanded maneuver



VSS in Autopilot



Manual Mode



Optional Table Top Steering Console

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