EMBEDDED BRIDGE
SIMULATOR

Virtual Marine's Embedded Bridge Simulator is a ship and navigation equipment simulator used for simulation and stimulation. The unique scenario builder software uses Virtual Marine Quest Architecture to construct and run simulation scenarios. The Embedded Bridge Simulator can be embedded in OEM consoles, as it stimulates OEM software with navigation data and RADAR software with RADAR signals from simulated scenarios. Varied sensor simulation includes: GPS, AIS, MINS, Gyro, Echo Sounder, Speed Log, and Metoc System.

TECHNICAL FEATURES

- Support available for either digital or analog radar simulation, both X and S band
- Virtual Marine uses dynamic physics-driven 6DOF math models for the own ship as well as all targets/contacts
- The own ship's virtual rudder and engine can be controlled by analog interface with OEM equipment
- Equipment faults in all virtual sensors and RADARs can be simulated
- Multiple UDP unicast, broadcast, or multicast channels can be used
- The Embedded Bridge Simulator supports up to 8 serial channels (RS232, RS422, RS485) per simulation computer

APPLICATIONS

1 Past projects involved supporting integration and testing of OEM equipment on major naval and coast guard programs

2 Available as an on-board trainer, designed to improve and maintain personnel workplace competencies

3 Currently supporting several land-based training facilities

VIRTUAL
MARINE
PERFORMANCE SIMULATION & TRAINING
BE READY

ABOUT VIRTUAL MARINE

Virtual Marine offers powerful custom-designed simulation capabilities to support defence and coast guard markets. Virtual Marine's embedded radar simulator has supported several frigate programs for integration/testing and it is ready for shipboard use. On the training front, Virtual Marine also develops customized simulators using vessel-specific equipment for Lifeboats and Fast Rescue Boats (FRB). The range of available simulation scenario software, including radar and ice management features, facilitates the testing of operator proficiency in a realistic manner, while delivering safe and repeatable training to quicken competency development. ISO registered, Virtual Marine simulators are DNV-GL certified and follow IMO and STCW regulations.

Proven Partner: Our Work in Global Projects

Canada	Halifax Class Modernization Offshore Fisheries Science Vessel	United Kingdom	Type 26 Frigate Programs Type 45 Frigate Programs
Germany	F125 Frigate Programs		

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