

INTEGRATED SHIP BRIDGE SIMULATOR

Redefine Combat Readiness for Ship





LEADING-EDGE SIMULATION TRAINING

From basic ship handling to complex mission rehearsals, the Integrated Ship Bridge Simulator offers a highly realistic and effective training environment for instructors and crew members to hone their technical and combat skills.

Designed as an Integrated Command Centre, the Ship's bridge, Combat Information Centre (CIC) and Machinery Control stations are centralised to promote collaborative training between various operational roles. Equipped with actual shipboard equipment and high fidelity 360-degree projection, it delivers an immersive out-the-window (OTW) view of the ship's surroundings for navigation training and conducting of combat procedures.

Littoral Mission Vessel
Simulation Centre

WINNER

Outstanding Training System
Integration Project

Military Simulation &
Training Awards 2019

★★★★★★★★★★

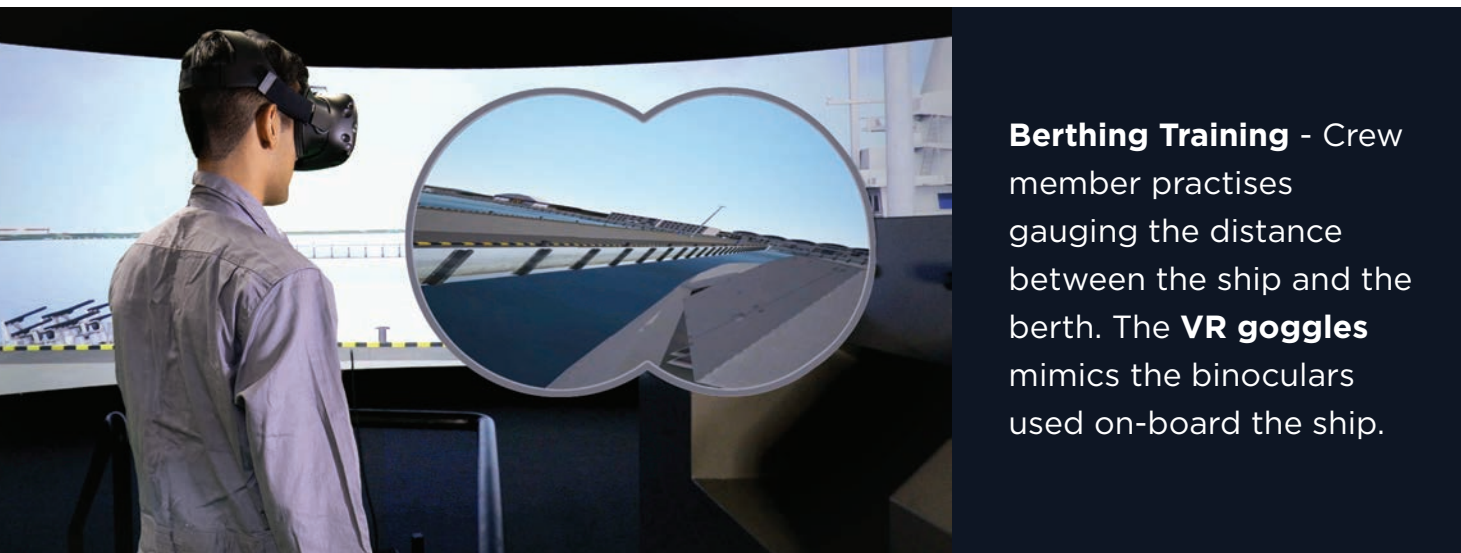


KEY FEATURES



Automated Computer Generated Forces (CGF)

CGF simulation enables the creation of a simulated maritime environment for training. It serves as a platform for generating enemy, neutral and allied forces while providing high-fidelity, autonomous entities' behaviour to support mission rehearsal exercises.



Virtual Reality (VR) Watch Stations

Our VR watch stations immerse operators into the training environment by offering an increased depth perspective for challenging scenarios such as bringing the ship alongside a berth and dealing with small vessels.



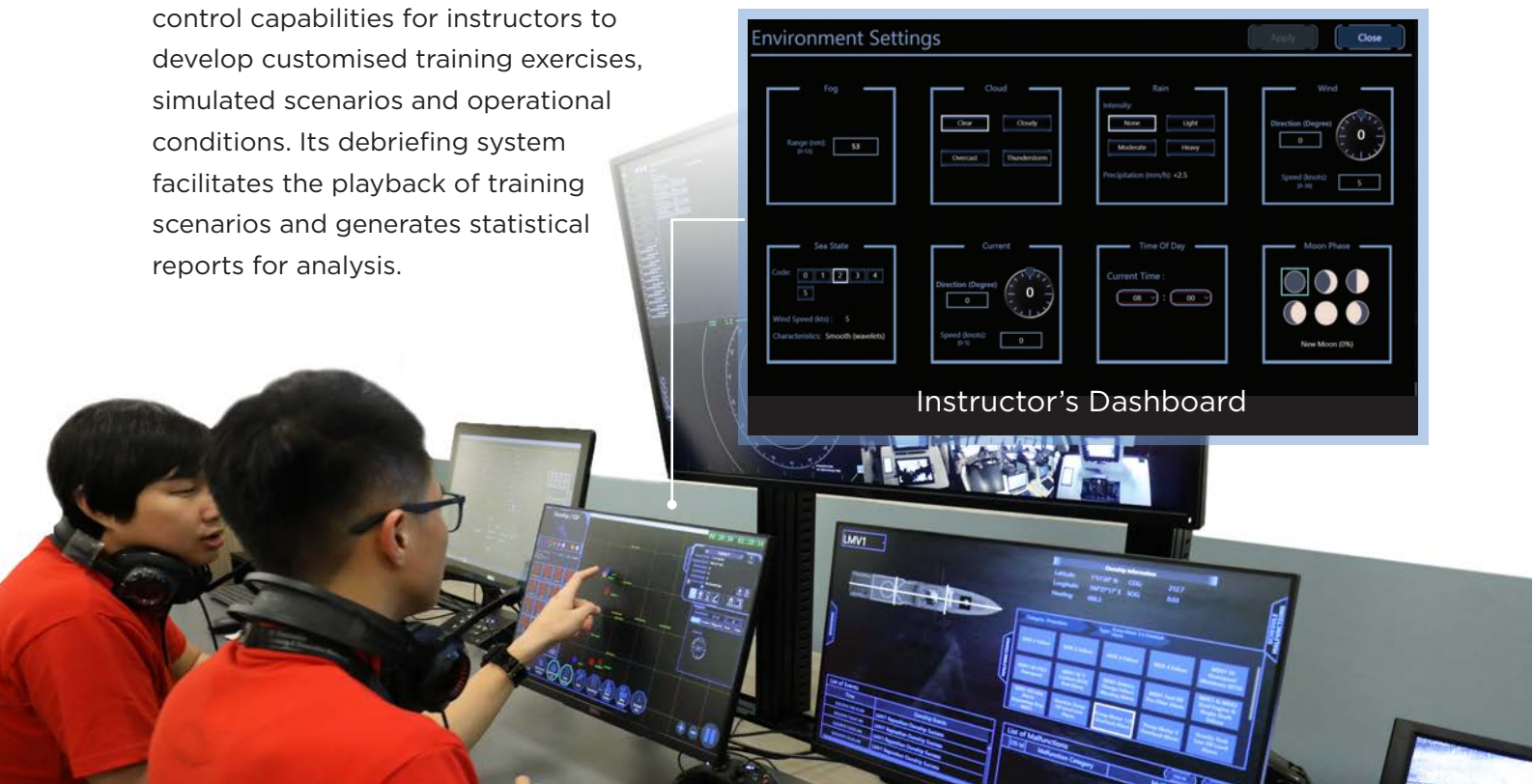
High Fidelity Visuals with 360° Projection

A fully immersive, out-the-window (OTW) view provides a realistic environment for training crew to manoeuvre vessels of various types and sizes at sea. The seamless high resolution display system is achieved by creating a unified image across multiple projectors with edge blending technology.

KEY FEATURES

Integrated IOS with Debriefing Facilities

The IOS provides real-time monitoring and control capabilities for instructors to develop customised training exercises, simulated scenarios and operational conditions. Its debriefing system facilitates the playback of training scenarios and generates statistical reports for analysis.



Training Flexibility

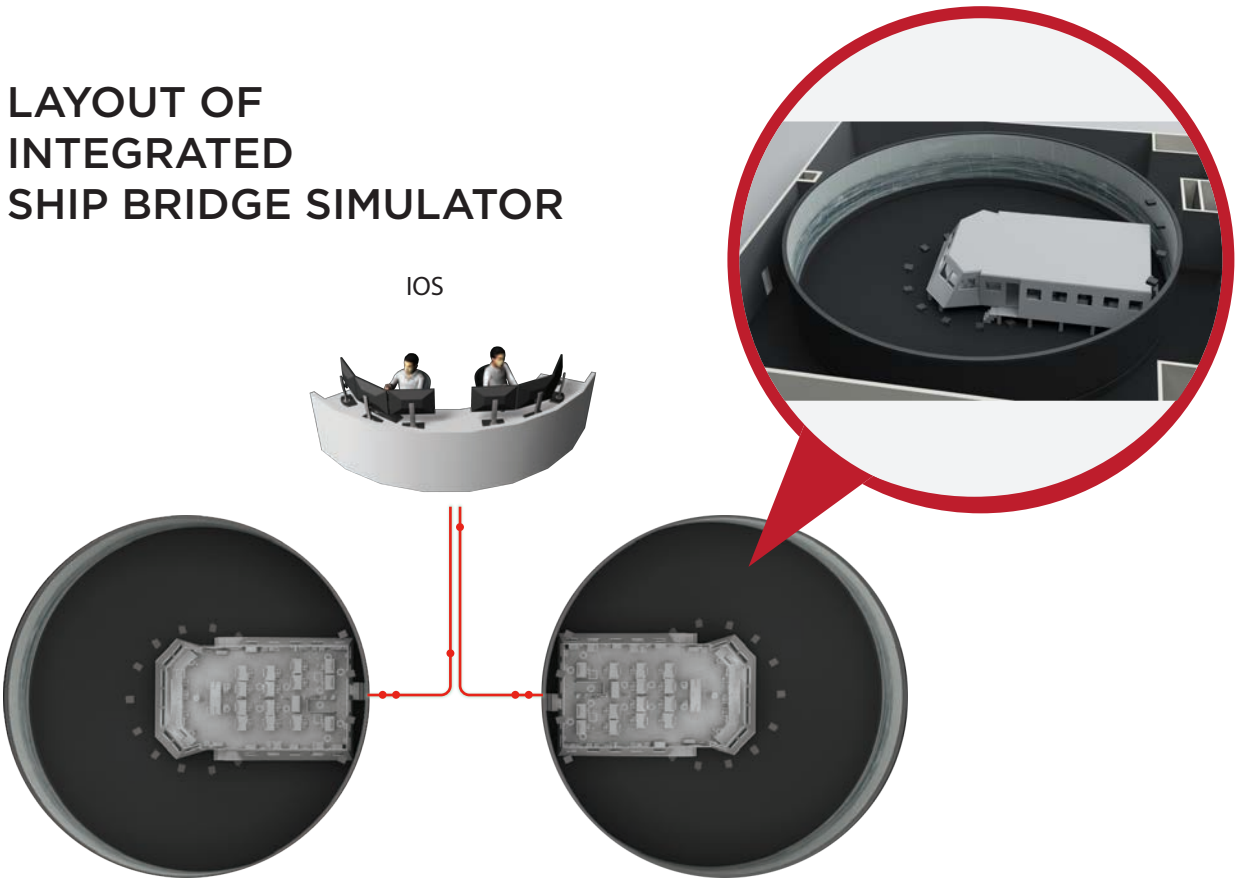
Multiple Training Options

Supports a full range of training from single operator component training to mission-based training. E.g. Marine Radar, Combat Management System, Communication System, Gunnery System.

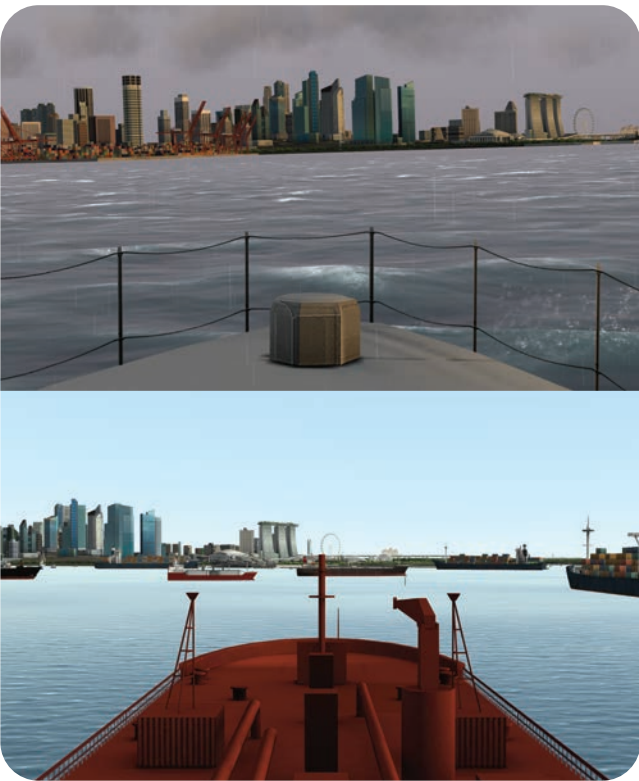
Networked Training

Two or more ship bridge simulators may be networked together, offering the flexibility for fleet training.

LAYOUT OF INTEGRATED SHIP BRIDGE SIMULATOR



SCENARIO-BASED TRAINING



Harsh weather conditions



System malfunctions
(E.g. power, propulsion, steering and machinery failures)



Enemy entities



High traffic density in congested waters

Training Applications:

- Berthing
- Bridge Watch Keeping
- Navigation
- Weapon Operation
- Machinery Operation
- Naval Tactical Training

Benefits:

- Overcomes the traditional constraints of training space and resources
- Time and cost-efficient complete training solution for large-scale exercises
- Enhanced training effectiveness in a safe and controlled environment

ST Engineering Electronics Ltd.

www.stengg.com

mktg.tss@stengg.com

© 2019 ST Engineering Electronics Ltd. All rights reserved.

DOP 2020



www.stengg.com/electronics/training-simulation