INTEGRATED SHIP BRIDGE SIMULATOR

Redefine Combat Readiness for Ship
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.
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.

**Berthing Training** - Crew member practises gauging the distance between the ship and the berth. The **VR goggles** mimics the binoculars used on-board the ship.

**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.

**Ship Bridge with High-fidelity 360-degree Wrap Around 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.
SCENARIO-BASED TRAINING

Harsh weather conditions

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

Enemy entities

High traffic density in congested waters

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

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

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

LAYOUT OF INTEGRATED SHIP BRIDGE SIMULATOR