The CAD Maritime Bridge Simulator is designed to facilitate training of bridge teams in safe navigation of vessels as well as nearly all other aspects of commercial marine operations, such as ice navigation, anchor handling, towing, berthing, bunkering etc. The basic configuration has an integrated bridge desk with conning, radar and navigation positions. The conning console has an extension containing a configurable steering position (wheel or directional drive controls), autopilot, light panel, VHF radio, thruster controls, met station, internal and external communications. An Integrated Platform Management workstation is normally placed remotely from the above. In addition pelorus, workdeck station and navigation cabinet simulators are available. Deck- and bulkhead repeaters are fitted appropriately.

The Maritime Bridge Simulator utilises PRESAGIS Vega Prime for high fidelity graphics and simulated environment modelling. Presagis Stage is used for scenario handling and management and implements simulation interfacing standards such as DIS and HLA for ease of integration with other similarly equipped simulators. VAPS XT has been used to recreate realistic instrumentation allowing the operator a clear concise feedback within the HMI.

Image generation and display are accomplished by high-end PCs and low-bezel full-HD display wall technology. The hardware allows for deployment within a compact footprint and in facilities with low ceilings.

THE FOLLOWING ARE KEY FEATURES OF THE BRIDGE SIMULATOR:

- View from bridge with realistic ship motion.
- Multi-video wall displays.
- Multifunction bridge consoles.
- Realistic helm controls.
- ECDIS functionality.
- Simulated RADAR Display.
- Integrated Platform Management System (IPMS) instruments.
- Scenario definition.
- Compact installation footprint including facilities with low ceilings.
- Control over all simulated entities, including vessels, aircraft and helicopters.
- Set time of day.
- Control over weather conditions, including:
  - Sea state
  - Cloud cover
  - Precipitation
  - Visibility/Fog
ABOUT CYBICOM ATLAS DEFENCE

CYBICOM ATLAS DEFENCE is a joint company between Cybicom (Africa) Technologies (Pty) Ltd and ATLAS ELEKTRONIK GmbH.

CYBICOM ATLAS DEFENCE was originally created to provide in-country, local support for the combat suite installed on the South African Navy Heroine Class Submarines. CYBICOM ATLAS DEFENCE has evolved from undertaking warranty related repairs to designing and developing graphical training simulators, interface stimulators and constructing and integrating a land based Submarine Combat Suite for the South African Navy.

CYBICOM ATLAS DEFENCE is a prime example of successful technology transfer that when coupled to an effective skills retention and development program leads to international award winning performance.

CYBICOM ATLAS DEFENCE is uniquely positioned to offer surface and subsurface naval combat system integration, image generation and command and control simulation.