

DIGITAL PROJECTION

Ship Bridge Simulator Case Study





Laser Technology Turns the Tide at KONGSBERG Ship's Bridge Simulation Centre

As the Singapore Maritime and Port Authority's (SMPA) Integrated Ship's Bridge Simulation Centre approached its tenth anniversary, it was headed towards the open water of a like-for-like lamped projection upgrade, until Digital Projection turned the tide with the launch of its stable solid-state laser phosphor light source projection technology, the HIGHlite Laser.

At the ten-year mark, not only was the projection system reaching its five-year lifespan, but KONGSBERG's bridge simulation software and physics engine was also due an upgrade to the latest technology: the Full Mission K-Sim Polaris Shiphandling Simulator.

Just one year into that consultation period, Digital Projection led the way with the launch of a laser projection solution available in Wide format WUXGA. Digital Projection Asia project manager, Rico Sim (Sales Manager, Digital Projection Asia) approached the two companies in consultation with the news that blew all existing plans out of the water.



Digital Projection's HIGHlite Laser projector produces incredible output of 11,000 lumens from a stable solid state laser phosphor light source, which crucially means there are no lamps to replace, thus removing not only the full and considerable cost of consumables over its life span, but also the underplayed costs associated with time and effort to recalibrate the edge-blending of each projector at every change.

Capt Loo, Manager of the ISC, was also very satisfied with the new projectors. He remarked, "I think Digital Projection has a good product and its after-sales service is excellent. The visual data was fantastic."

At the point of final commissioning, Atle Jensen, Group Manager Projects, Project Management Sim, who has enjoyed a career with KONGSBERG spanning almost 30 years, flew in to check on the proofs of concept and delivered the highest possible praise, stating: "The system installed in MPA's ISC is one of the best systems I've seen in my years of experience with Kongsberg."

The success of the project has been such that it is to be replicated throughout the region with Digital Projection aligned closely with KONGSBERG to implement similar projects in South East Asia.

HIGHlite Laser II

Key Features of the HIGHlite Laser

- WUXGA Resolution
- Laser illumination
- 13,000 ANSI Lumens
- 20,000 hours illumination on laser models
- 3-Chip DLP



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