



GREAT BARRIER REEF - INTERNATIONAL MARINE COLLEGE

Overview

PROJECT LOCATION
55-61 Tingira Street, Cairns

SUPPLIED BY
Mitsubishi Electric Australia

CUSTOMER
Great Barrier Reef International
Marine College

COMPLETION DATE
April 2011

APPLICATION
Training Simulator

PRODUCTS USED
7 x VS-80PH70B 80" DLP Video Wall
Cubes

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THE PROJECT

Great Barrier Reef International Marine College - is Australia's newest marine training facility, right on the doorstep to the Great Barrier Reef and its warm tropical waters in Cairns, Australia.

The College caters for local, national and international students looking to start or enhance their career in the marine industry. Marine training providers, including TAFE, deliver more than 30 training programs and qualifications with courses ranging from deckhand, marine radio, forklift and dogman's ticket to advanced skipper and engineering. The college facilities are also available to industry operators for higher level qualifications , as well as research and development.

In January 2011, GBRIMC added a full mission bridge simulator to its facilities. The simulator provides accurate working conditions for a number of class A DNV vessel types, and features a 270° virtual viewing area from the bridge controls. Mitsubishi Electric Video Wall Cubes were chosen as the visual display hardware to provide this viewing area.

THE CHALLENGE

To accurately simulate the view from the bridge, the displays would need to large in scale, with the ability to deliver high resolution images with accurate colour balancing between the screens. They would need to handle extended running times, with minimal downtime for maintenance and be controllable via RS232 communication.





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THE SOLUTION

The Mitsubishi Electric VS-80PH70B Video Wall Cube displays were chosen as the visual solution for the bridge simulator. With an 80" diagonal screen size and native SXGA+ (1400 x 1050 pixel) resolution, the VS-80PH70B wall cubes were ideally designed to accurately simulate the bridge viewing windows in high detail.



The VS-80PH70U feature Dynamic Brightness and Colour Balancing. Three built-in sensors continually monitor the Red, Green and Blue levels, then share this information with the adjacent cubes and adjust performance automatically for accurate balance over the entire display wall. This image uniformity helps to maintain the illusion of being on the bridge of a vessel.



The lamps in the wall cubes have a lamp life of up to 10,000 hours, for long-term operation without the need for maintenance. Additionally, the VS-80PH70U models used in the simulator feature a dual-lamp engine, which automatically detects when the current lamp is near the end of its service life and switches over to a new lamp. The Advanced Smart Lamp feature then transfers the colour characteristics of the old lamp to the new one, meaning no colour adjustment is required once the lamp swap has occurred. All these features add up to literally years of maintenance-free operation.

To provide control of the entire display wall from one connection, the VS-80PH70U are daisy chained via a RS232C connection, for easier adjustment and performance monitoring.



END RESULT

GBRIMC now boasts one of the most advanced shipping simulators in Australia. The VS-80PH70U wall cubes are a great contributor to this, with the large screens and high resolution images giving operators a deeper sense of realism during their training exercises.

