

# Japan Marine Science Inc.

## Case Study



## First Christie Boxer 4K30 employed in Japan to help transform maritime industry

Japan has always led the way globally for marine science and technology. Japan is home to Tokyo University of Marine Science and Technology, and more like it, that encourage young minds to take up careers in the maritime industry. There is a great demand for maritime professionals in the energy, oil and gas, shipping and the ship-building industries.

As the demand for such professionals continues to grow, the barriers to entry have also risen. As such, aspiring maritime professionals have to go through rigorous training programs and pass several standardized tests before qualifying. Even after qualifying, they

have to stay up-to-date understanding a wide range of technologies and conduct maritime education programs.

Japan Marine Science Inc. knew they had to innovate to remain competitive. Motivated to transform the maritime industry, they sought different simulation systems to find out which will best enhance their consulting capabilities.

In the past, consulting was dependent on the "veteran" expert's judgment and ability to generate lengthy algorithms to mimic the different possible scenarios and environments the ship may encounter. This took a long time as it

### Customer:

Japan Marine Science Inc.

### Location:

Japan

### Industry/Market:

Maritime and shipping

### Partners:

CAD Center Corporation

### Requirements:

- Bright and vivid visuals
- High-performance and durability

### Summary:

A total of 13 Boxer 4K30s were installed for simulation purposes at Japan Marine Science Inc., making it the first Christie Boxer installation in the country.

### Products:

- Christie Boxer 4K30 (13)

### Results:

The use of Christie technologies in marine science is testament to the high and enduring standards Christie holds. This is a clear reflection of Christie's ability to adapt to multiple needs of the client and to enhance the field of maritime consulting.



▲ Vibrant and lifelike visuals are projected around the ship bridge simulator, thanks to the amazing 4K resolution of the Christie Boxer 4K30 projectors

was solely dependent on the expert's experience. Resolution for the simulators is also crucial in such a risky industry. Collision of vessels with foreign objects or ships will signal trouble, and putting a good simulator in place was essential. In an industry where accuracy is paramount, there simply cannot be room for errors.

Japan Marine Science Inc. knew they needed to blend both worlds - innovation and experience, in order to deliver a world class training program. With that in mind, Hayashi Michio, Managing Director of Japan Marine Inc., had to embrace and overcome the challenges in order to see a major step forward for the maritime industry.

The mindset change that his employees had to make was one of such challenges. Steeped in tradition, the 30-year-old company had been using its range of simulator systems for a long time. There

was no reason to change a system that has stood the test of time, especially since their systems have always been recognized in the industry. Japan Marine Inc. had also developed a very strong reputation as being the best. So why was there a need to change? Will this change affect their reputation? There was also the size constraints that Japan Marine Inc. had to work with, which meant that even though they needed more projectors to create the desired outcome, they could not afford the luxury of space it needed to install multiple projectors.

Like a ship in distress, their S.O.S call was answered with the debut of the Christie® Boxer 4K30 3DLP® projector. Deeply impressed by its 4K resolution, high brightness, omnidirectional capabilities and superior performance, Japan Marine Inc. decided to install 13 Boxer 4K30 projectors for its 360-degree ship bridge simulator. This marked the first time a

Christie Boxer 4K30 was used in Japan.

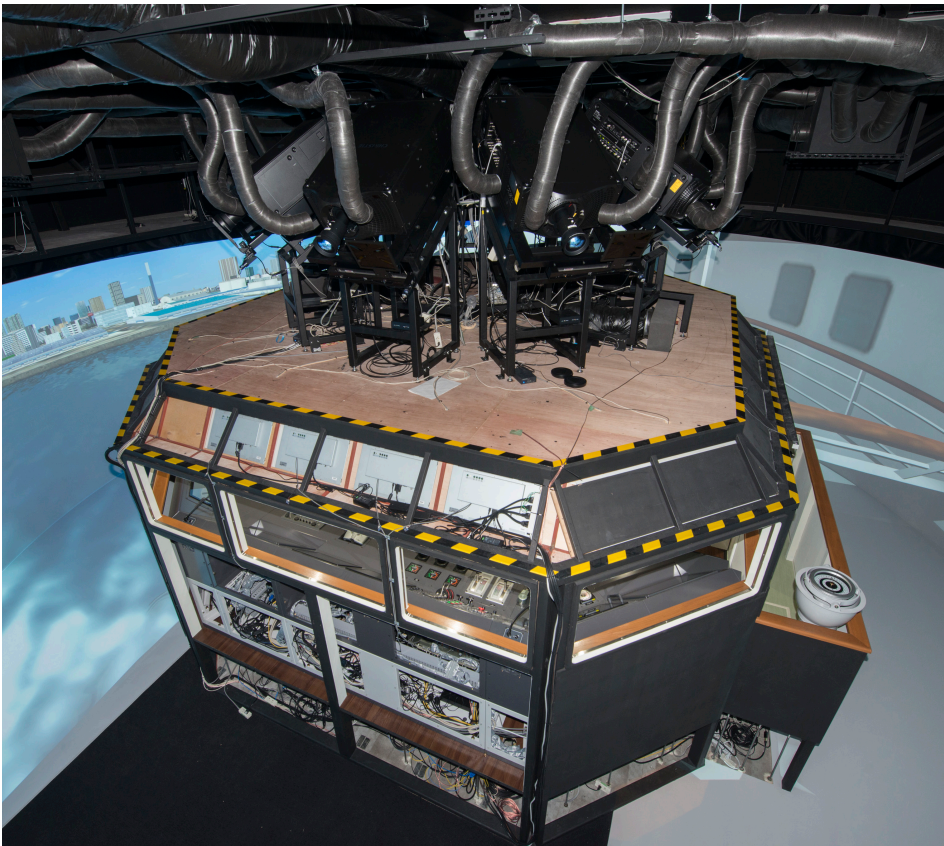
"The Christie Boxer 4K30 was unlike anything I've seen before," said Michio. "Visual information is mission critical in watching the seas. Although we were already using high definition simulator systems, that was sometimes insufficient. Operating at 4K resolution means that we can simulate almost exactly what happens in real time and with a greater amount of clarity than what really is happening out there in the seas."

Reproducing accurate colors of distant ship lamps was also achieved with the Boxer 4K30, as it has an excellent color space. In terms of the data that is being processed and bandwidth that is needed to support the simulations, the Boxer 4K30 worked harder and faster than any of the other solutions to deliver accurate and timely information to their maritime consultant.

Besides the higher resolution, brightness is also very important to simulation systems. The Boxer 4K30 delivers the best size to lumen output ratio in the business, producing 30,000 lumens and weighing only 160 lbs. With intelligent design and feedback, the Christie Boxer 4K30 is currently the most profit-focused professional projector in the market and is helping Japan Marine Inc. deliver an unprecedented user experience.

Unlike flight simulators, which usually processes information in the air and ground, simulators on the marine front is a lot more complex. There is a lot more information that needs to be processed. A total of nine projectors were used for this simulation system, in order for a 360 degree view of the entire ship and environments around it.





▲ The 13 Christie Boxer 4K30 projectors are installed strategically above the simulator to provide a complete 360-degree view

Kitano Isao, Director of CAD Center, who served as an important facilitator during the design and implementation said, "The Boxer 4K30 is compact and works within our space constraints. The performance and durability of the Boxer 4K30 are of such high standards – definitely the kind we want to work with in the future."

Harry Ikeda, General Manager, Christie Japan, said, "We are delighted that Japan Marine Inc. has decided to use Christie technologies for such a mission-critical project. The Boxer 4K30 is indeed one of the best-in-class product we have, and we're glad to support the maritime industry in every way we can."

### Contact Christie

Contact us today to find out how your organization can benefit from Christie solutions.



▲ The control room that oversees operations of the ship bridge simulator



▲ Christie Boxer 4K30 3DLP projector

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