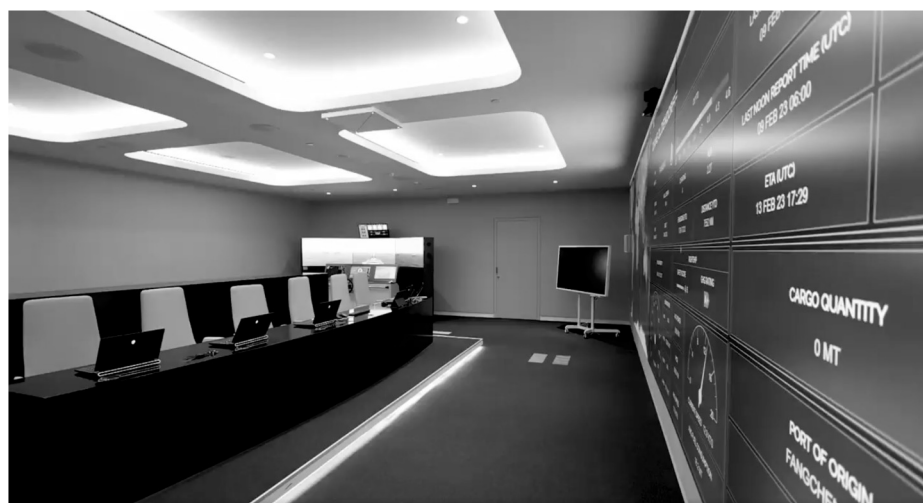


DUBAI, UNITED ARAB EMIRATES
CORPORATE

LOCATION
SECTOR



CASE STUDY

The Nautical Nerve Centre

CLIENT BRIEF

In the last quarter of 2022, Leisung was commissioned to design an AV solution for one of the world's largest shipping companies. Focusing on dry-bulk operation, they carry 380 million tons of bulk and unitized cargo every year, around the world. They have been in the market for over a century assuring the service quality and responsiveness that bulk transportation needs.

THE CHALLENGE

For an upcoming Centre of Excellence, our client needed a state-of-the-art AV setup that could facilitate live tracking of their fleet, as well as support video conferencing solutions. This prerequisite presented a unique opportunity, as it required the integration of various technologies to create a cohesive and functional system.

In addition to live tracking and video conferencing needs, the client also required a live simulation setup for their carriers. This setup would allow for realistic maritime simulations, which are elemental for training purposes and safe operations. Leisung designed, supplied, integrated and commissioned a full equipped AV solution to be suite the needs of the client.

OUR SOLUTION

To address these requirements, a comprehensive solution was designed and implemented by Leisung. This solution included advanced video conferencing system, along with high-resolution conferencing cameras and high-fidelity speakers, which could facilitate clear communication and collaboration between team members in real-time. The system also included an extensive video-wall, which could display real-time location data of their fleet, providing critical insights into their operations.



Video Conferencing / Live Tracking

The live fleet tracking and video conferencing system was integrated onto a 6x3 configuration of 55-inch display to create a video wall. The entire system was designed to allow for wireless presentations and other features.

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The video conferencing functionality could be activated and displayed on the video wall using a controller.

The conferencing system was equipped with a 4K dual-lens camera that utilizes AI technology, ceiling microphones, and wall-mounted high-fidelity speakers to provide a high-quality conferencing experience. When the conferencing system is not in use, the video wall is split into two screens displaying live fleet tracking and other relevant carrier information.

In addition to the video wall, there is also a 55-inch interactive display stationed at the front of the room. This display serves as a whiteboard during collaborative meetings, allowing users to jot down ideas and notes in real-time. Moreover, the content displayed on the interactive screen can be easily mirrored onto the video wall, ensuring that everyone in the room has a clear view of the ideas being discussed. This feature ensures that all participants are engaged and involved in the meeting, creating a collaborative and interactive environment.



Control System

The entire AV system has been installed with an iPad and docking station that serves as a central control point for the entire system.

With the iPad, users are able to easily control various components of the system, including input selection for the video walls, settings for the video conferencing system, speaker output, volume controls, and the split-screen display on the video wall.

In essence, the iPad and docking station serve as a convenient and intuitive interface for controlling the entire AV system. Users have the ability to easily manage the various components of the system from a single control point, streamlining the operation of the entire system. This level of control ensures that the AV system is easily accessible to all users, regardless of their technical proficiency, and allows for a seamless and effortless user experience.



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Ship Simulator

The simulation desk was equipped with three 55-inch video displays that were integrated with the simulation system. Additionally, a monitor was installed above the video wall to display all the necessary gauge information. The solution provided was perfectly suited for the simulation software and proved to be an excellent addition to enable training in realistic maritime environments for the purposes of safe operations, research, and other related activities.



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