

CNOOC, China

Improved nation-wide workflow through user-friendly visualization

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Xiong Zhiqiang,
Security Supervisor, CNOOC



The China National Offshore Oil Corporation (CNOOC) is one of the three largest, state-owned oil companies in China. To analyze and present multi-faceted geophysical data sets in high-resolution simultaneously, CNOOC knew it needed to standardize on state-of-the-art display walls that could be easily used by any presenter or team.

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Choosing for expertise

Based on CNOOC's experiences with Barco equipment, service and support at their Tianjin facilities, and many other reference sites in the oil and gas industry, CNOOC chose Barco to develop three 3D stereo display walls for various offices across China. "Barco has a firm grasp of the needs of today's geophysical industries," says Mr. Xiong Zhiqiang, Security Supervisor of CNOOC, "The workflow advantages Barco's display systems offer are unparalleled – not to mention that their image quality is second to none."



Three displays, same ease of use

Barco's display walls at CNOOC feature resolutions between 6 and 9 megapixel, and screen widths between 6 and 7m, but they all share the same familiar Windows environment. "From engineers to managers, at whatever site they are – Beijing or Zhanjiang – they can control the display system with mouse and keyboard, displaying several sources simultaneously in any configuration they want. This is a huge advantage when we want to compare various data sets, or keep both video and data available at the same time," explains Mr. Xiong.

"What's more, our researchers can now comfortably view any mix of 2D and 3D images. 3D has become indispensable in the assessment of geophysical data. Combining this with real-time videoconferencing allows us to make decisions about the potential profitability of oil resources faster, easier and more effectively," continues Mr. Xiong, "Videoconferencing is also an attractive alternative to constant travelling between sites to attend team meetings."

Seamless hardware integration

Barco installed a six-channel (2x3) MegaCADWall in CNOOC's Zhanjiang facility, and two display walls in the Beijing headquarters: a four-channel (2x2) MegaCADWall for research purposes, and a giant six-channel (2x3) MegaCADWall for analysis as well as presentation. All of them are driven by Barco's active 3D stereo Galaxy NH-12 projector, an exceptionally bright three-chip DLP projector with a full HD resolution.

"It's not only the Galaxy NH-12 which makes the image quality so good," says Mr. Xiong, "Other contributing factors include Barco's fine-tuned mechanical setup and its dedicated high-contrast glass screen technology, which enhances the images' contrast and sharpness." In addition to these special Barco technologies, its Galaxy NH-12 projector also carries several features that render it the ideal choice for multi-channel setups such as CNOOC's. "Thanks to technologies such as optical edge blending, color and brightness matching, the composite image on our display walls really looks like one complete image," adds Mr. Xiong.

Unique collaboration center

"With Barco's display walls, we now have powerful high-resolution tools that show us the detail we require for our operations. Barco delivered more than visualization," concludes Mr. Xiong Zhiqiang, "Through their display technology, they have offered us the right environment for analysis, collaboration and presentation."

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