Project: 21st Century Cyclorama

Over one hundred people at any given time can experience fully immersive, active stereo (3D) content in the 21st Century Cyclorama, designed and engineered by Milwaukee-based immersive projection design company, The Elumenati.

For over ten years, The Elumenati team has built a reputation as pioneers in immersive technology. A broad range of artistic, commercial, and educational clients, such as NASA, NOAA, Cirque du Soleil, and DreamWorks use Elumenati domes, projection systems, interactive software, and custom installations. In 2013, a private client asked the team to create an experience comprising a 42-foot by 15-foot tall, 360-degree space to enthrall over one hundred visitors at any given time with dynamic, high-resolution, stereo content. The 21st Century Cyclorama reflects The Elumenati’s design philosophy of building cutting-edge environments that are as efficient as they are elegant.

"It’s a giant 3D theater that wraps around you in all directions," says Hilary McVicker, VP of Sales and Marketing at The Elumenati. Four edge-blended projection channels fill the space with active stereo content, while allowing guests to stand as close as 4 feet from the screens without casting shadows. Digital Projection’s (DP) TITAN WUXGA Quad 3D, 3-chip DLP projectors were chosen to project high-resolution stereo imagery with beautiful color in the large space.

Four Elumenati OmniFocus 30620 projection systems were used, combining the strengths of DP’s TITAN projector with a 600 series fisheye lens developed and engineered by The Elumenati. Each projector offered 20,000 lumens brightness, with a total resolution of nearly 8K across the 360-degree space.

Completely Immersed

The Cyclorama space is an Elumenati OpenDome Panorama, 42-feet in diameter and 15-feet tall. The semi-permanent structure features a metal frame and a fabric screen with Elumenati’s patented dual-pressure technology.

Why Digital Projection was chosen

“We chose to work with DP because their products have been extremely reliable over the years, and they’re always open to engineering collaborations, allowing us to build projection systems with optimal image quality.”

- Hilary McVicker, VP of Sales and Marketing at The Elumenati