

## MAXVIEW AIR TRAFFIC CONTROL TRAINING SIMULATOR



### PROJECT REQUIREMENTS

Air Traffic Control (ATC) operators required training on a new generation of flight procedures and operations. A critical component of this training is a large Field of View (FOV), essential for effective traffic management and safe operational practices.

### PROJECT OBJECTIVES

Traditionally, achieving the same FOV would have required 36 flat-panel TVs and six computers to operate. This project aimed to deliver a 360-degree view using fewer resources while maintaining high visual fidelity and operational efficiency.

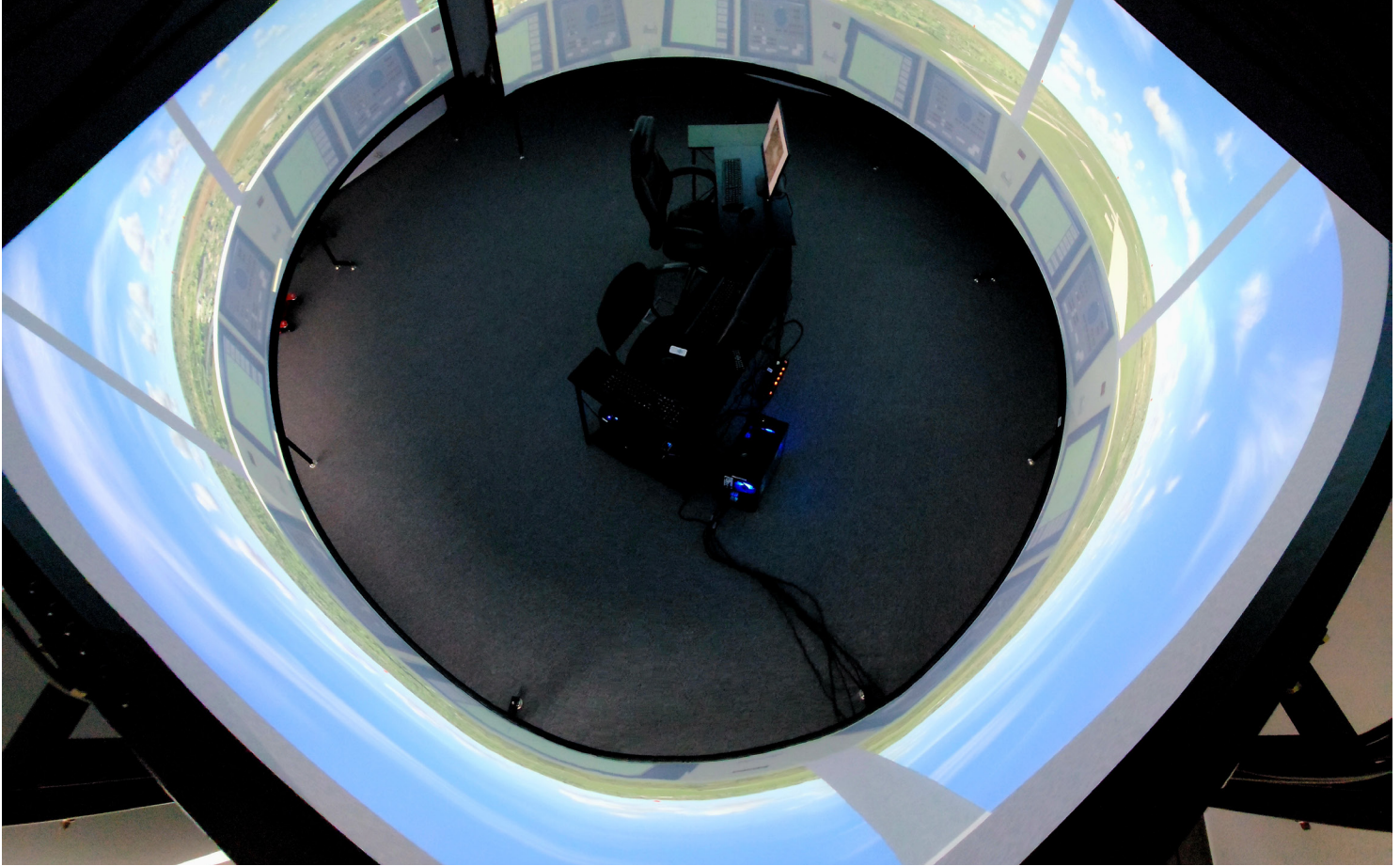
The objectives included:

- Achieving a continuous 360-degree visual experience.
- Minimising the hardware footprint and computing requirements.
- Ensuring seamless visuals for realistic training scenarios.

## MAXVIEW AIR TRAFFIC CONTROL TRAINING SIMULATOR



## MAXVIEW AIR TRAFFIC CONTROL TRAINING SIMULATOR



### SOLUTION

Simulator Visuals selected the Optoma ZK430ST projectors for their 4K resolution, long-life laser light source, and short-throw lens, essential for combining six projectors in a compact area. Using a traditional cylindrical spiral screen rather than a custom fiberglass dome allowed the project to remain within budget while maintaining visual quality.

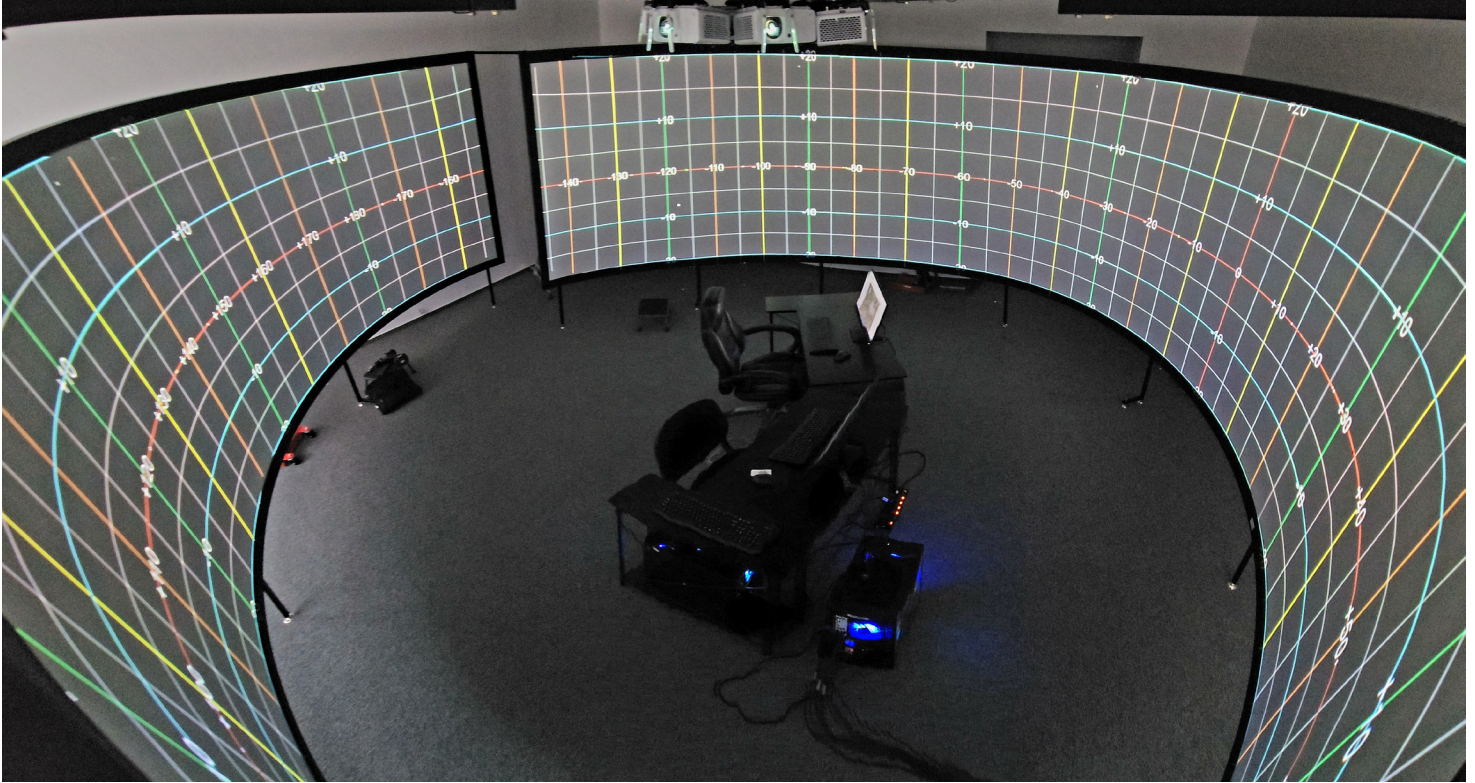
Key aspects of the solution:

- The system uses only six projectors and a single computer running Prepar3D and TruVIEW software.
- The compact footprint of 5m x 6m x 2.7m allows the simulator to be easily relocated or rotated.
- The cylindrical spiral screen facilitates easy entry and provides geometrically accurate visuals

### UNIQUE FEATURES

This project was one of the first globally to integrate six 4K laser projectors with a cylindrical spiral screen. The design enabled a fully immersive 360-degree FOV while reducing the complexity and cost associated with traditional video wall setups.

## MAXVIEW AIR TRAFFIC CONTROL TRAINING SIMULATOR



### THE RESULTS

The MaxVIEW system delivers:

- Seamlessly blended visuals with superior clarity.
- Geometrically correct FOV for realistic ATC training.
- A cost-effective, compact, and highly flexible training simulator that can be relocated or adjusted as needed.

This project highlights how advanced projection technology, combined with innovative design, can deliver world-class training solutions with minimal resources.



Installation completed by Simulators Visuals  
[www.simulatorvisuals.com](http://www.simulatorvisuals.com)  
Nat Crea | Director  
Sim Vis  
Amber Technology  
[www.ambertech.com.au](http://www.ambertech.com.au)  
02 9998 7600