

Air Traffic Control



TREALITY is an experienced player in training air traffic controller visual simulation. It is a must to turn knowledge into practice.

By simulating situations and potential crisis scenarios as accurately as possible you can optimally prepare for mission critical situations.

TREALITY provides world class visual system, so air traffic controllers can, through simulation, train what you can't in real life.

TREALITY visualization solutions are deployed around the world in both civil and military air traffic control centers.

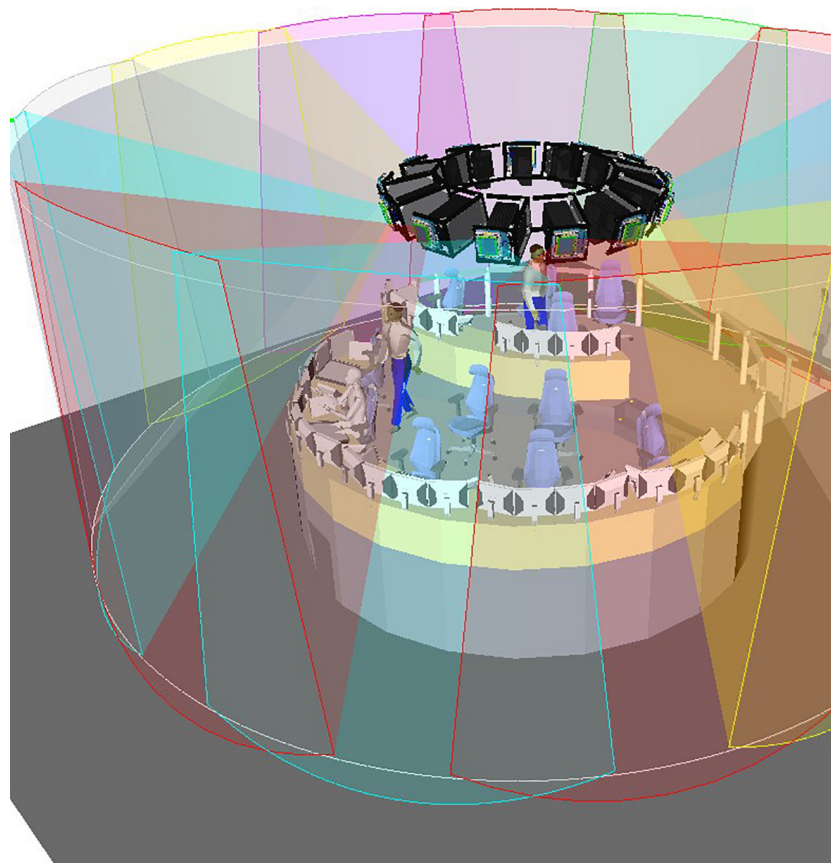
We apply our knowledge and expertise in real-world air traffic control to our simulation solutions, in which replicating reality is critical for effective training.



Challenges and Objectives

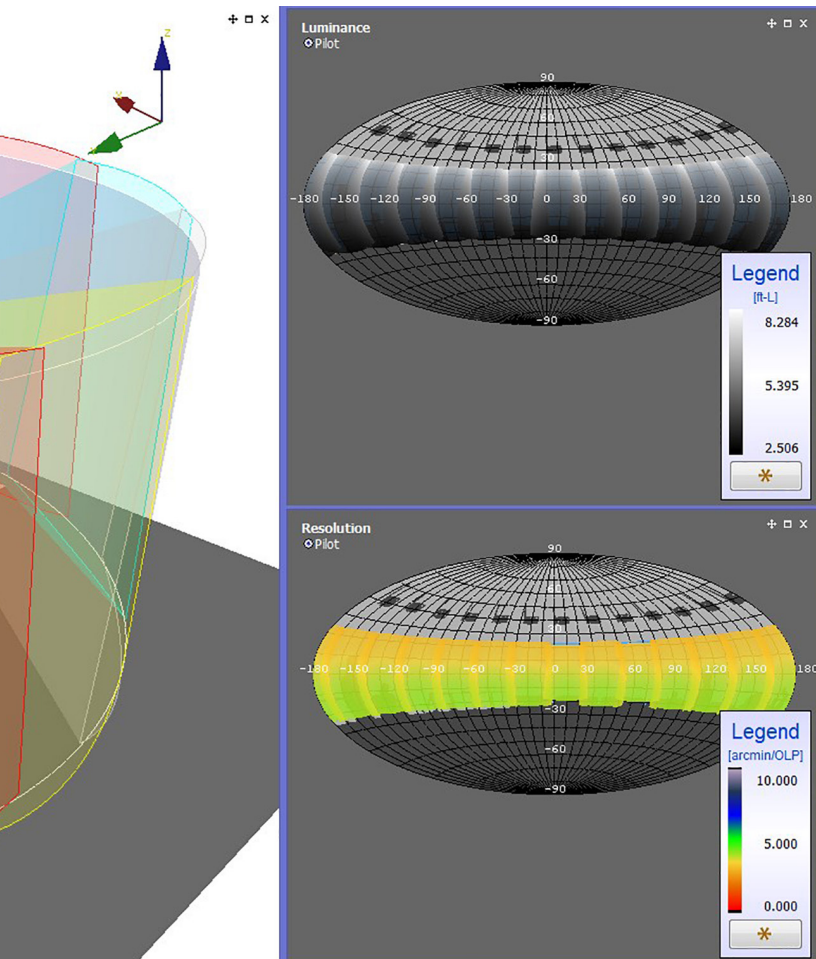
- With increased air traffic the need for training increases.
- TREALITY can deliver a custom field of view display to a full 360° field of view system with automated doors.
- A full 360° Field-of-View with allows for multiple controller working positions with space for additional positions for supervisor or departure clearance.
- The screen can be divided into 3 separate areas, this gives 3 smaller training areas in the same rotunda.
- A flexible tower simulator which can simulate realistic weather conditions, such as bad visibility, snow and rain.
- TREALITY's optical edge blending allows for a perfect multi-channel image and perfect nighttime.

Simulator (1)
[perspective]



TREALITY's solution, upgrades and services

- DLP technology is able to provide the higher white levels required for visualizing challenging weather conditions such as fog and snow, but also delivers the black levels needed for night scenes
- TREALITY engineering know-how is used to deliver the tower simulator which will answer your requirements.
- Delivering new high quality front or rear projection screens with correct gain factor to increase system contrast to upgrading existing visual displays
- The multi-channel optimizations and TREALITY's optical edge blending allow for a fuss-free cross-channel matching.



Efficient tools maintain uptime and smooth operation

- SimCAD, our custom 3D software specifically developed for simulation allows our engineers to optimize the system configuration, calculate critical performance parameters, and accurately predict final system performance.
- State-of-the-art system tools helps to achieve image continuity.
- TREALITY XDS-RACU control system allows users to operate, calibrate, configure and diagnose systems across multiple channels to maintain uniformity, while specially engineered software makes alignment simple and intuitive.
- In addition, the mechanical structures which house projectors and peripherals are custom-engineered by TREALITY, ensuring that the entire system functions smoothly and without discrepancies.



Image courtesy of NLR

Skills and expertise around the world

TREALITY, Simulation Visual Systems has the experience and global reach to handle in all corners of the world. We are always ready to respond quickly and effectively to customer support requirements.

With such a large worldwide presence, we are able to minimize downtime and maximize customer satisfaction regardless of where our systems are installed.

20,000 air traffic controllers rely on TREALITY every day

In major airports all over the world, teams of air traffic controllers work around the clock tirelessly to guarantee minimum separation and guide aircraft safely and efficiently to their destination.

With a worldwide installed base of over 12,000 display products, 20,000 air traffic controllers use TREALITY visualization every day to ensure the safety of air passengers.

About TREALITY Simulation Visual Systems

TREALITY designs, manufactures and markets innovative hard- and software visualization solutions for a variety of applications, such as traffic management, command and control, flight training and driving simulation.

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TREALITY SVS Simulation is an ISO 9001:2015 registered company.
The information and data given are typical for the equipment described.
However any individual item is subject to change without any notice.
The latest version of this brochure can be found on www.trealitysvs.com.

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