

TREALITY RP-X

When Simulation Matches Reality

Most advanced rear projected visual display systems

Advanced simulation is key to improving modern fast-jet pilot training. The continuous push towards greater realism and training effectiveness drives the need for visual display systems with high image quality, a full 360-degree field of view and eye limited resolution. TREALITY's RP-X is the next generation of fast-jet trainer visual display systems, combining a compact footprint with cutting-edge image performance. Through its advanced seamless, monolithic 360-degree rear- projected screen and the use of the newest projector technology; it is able to meet the highest standards for jet fighter training. The TREALITY RP-X also enables end-users to save on operational costs by using the latest solid-state projector technology with a minimal projector count.



Realistic immersive training

The TREALITY RP-X is the answer to the ever-growing need to reduce training costs by bringing more training tasks to simulated training systems. When a pilot is trained on a simulator, it is important that the procedures used in the "real world" can also be applied in this training environment. The visual ergonomics of the TREALITY RP-X system make pilots feel comfortable and its realistic images enable them to train as if they were flying in reality.

The TREALITY's RP-X dome system is developed for immersive flight training applications for full mission flight simulators and can be used for air-to-air or air-to-ground training, close air support and aerial refueling. The TREALITY RP-X's superior system contrast and deep black levels provide unrivaled realism for day, night and dusk images and can stimulate NVGs realistically. It consists of an advanced ergonomic seamless dome; a multi-channel projection system, sophisticated alignment and control tools, and dedicated peripheral devices.

Several TREALITY RP-X domes can be linked together for networked flight training to increase training effectiveness.



The TREALITY RP-X system minimizes eye-relief variance and provides a constant radius and eye-relief for horizontal head sweeps. Pilots experience unparalleled full-immersive training at a level not realized with other technology.

TREALITY has engineered this system to accommodate a variety of projector types and configurations. It perfectly matches any application or visual training requirement. TREALITY RP-X employs an advanced NOCTIS edge-matching technology for seamless blends between projection channels. NOCTIS uses true greyscale light-attenuation technology that optimizes your training for the best day, night and NVG scenes.

The TREALITY RP-X system is a complete turnkey visual display solution. Each component has been designed with system integration in mind. Its projectors, mechanical structure, screen and automated alignment tools guarantee consistent performance over time.

The TREALITY RP-X offers the most realistic image quality on the market today. With its projectors, the system achieves superior results, long MTBF, an optimized realistic field of view, realistic air and ground target detection, recognition and identification, improved display contrast and advanced scenarios for both day, night and NVG training.

Proven solutions

With hundreds of systems deployed worldwide, TREALITY's recognized dome solutions are trusted and proven. TREALITY's experienced team of engineers and technicians have designed the systems for professional installation and project execution.

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The latest version of this brochure can be found on www.Esterline.com.

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