



MEDIA ADVISORY

Trident Military Systems Enhances F-16 Flight Simulation Training with RGB Spectrum's Cutting-Edge Technology

Improved Visualization, Real-Time Synchronization, and Robust Debriefing Capabilities for Air National Guard and Air Force Reserve Pilots

Alameda, California – December 11, 2024 – [RGB Spectrum®](#), a leading designer and manufacturer of real-time audio-visual solutions for defense and public safety, announces that [Trident Military Systems, LLC](#), a leading provider of flight simulation systems for military organizations, has teamed up with RGB Spectrum to enhance the effectiveness of its F-16 training programs. With a focus on delivering realistic, synchronized training experiences, Trident has successfully integrated RGB Spectrum's [SuperView®](#), [DGy™](#), and [QuadView®](#) solutions, transforming how pilots and instructors engage with their training data.

The Challenge

Trident Military Systems supports the Air National Guard and Air Force Reserve by building and maintaining F-16 simulators across multiple sites nationwide. Trident aimed to provide instructors with real-time cockpit data, synchronized video sources, and effective debriefing capabilities for improving pilot training.

Why RGB Spectrum?

Trident turned to RGB Spectrum for its flexible, reliable, and scalable solutions. These products allowed Trident to seamlessly integrate custom applications, synchronize video with network data, and ensure fail-safe operations under critical conditions. RGB Spectrum's technology proved essential in delivering high-quality training to the Air National Guard and Air Force Reserve.

“We needed a solution that could integrate cockpit data with real-time network information and ensure that our training systems performed flawlessly under the high-stakes conditions of military training,” said Jerry Giacinto, Chief Technology Officer at Trident Military Systems. “RGB Spectrum’s products have provided the reliability and flexibility we need to offer exceptional training experiences.”

How RGB Spectrum’s Technology Powers Training

Trident Military Systems utilizes the following RGB Spectrum products to support training and debriefing:

- **SuperView Multiviewer:** Displays a real-time "glass cockpit" on a large monitor, giving instructors a comprehensive view of cockpit data, including multi-function displays (MFD), flight data, and simulated out-of-cockpit visuals.
- **DGy Video Codecs:** Records video and audio during training sessions using JPEG2000 compression, providing visually lossless video for accurate post-mission analysis and debriefing.
- **QuadView Multiviewer:** Integrates multiple video sources on a single screen, enabling instructors to present critical training data in customizable layouts for enhanced clarity and context.

The Results

The integration of RGB Spectrum’s technology has had a profound impact on Trident Military Systems’ ability to deliver high-quality, synchronized training:

- **Enhanced Training Capabilities:** Instructors gain real-time access to all cockpit data, improving the depth and quality of feedback during training.
- **Improved Debriefing:** DGy’s video and audio recording features have streamlined post-mission analysis, allowing for a more detailed and effective debriefing process.
- **Operational Efficiency:** RGB Spectrum’s customizable solutions have increased operational efficiency by seamlessly synchronizing video playback with network data.

“The *SuperView*, *DGy*, and *QuadView* have made a difference in how we deliver and review F-16 training missions. The clarity, real-time synchronization, and ability to record and play

back training sessions have improved our ability to debrief and educate pilots,” said Giacinto. “These tools have become indispensable in our daily operations.”

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About RGB Spectrum

RGB Spectrum is a leading designer and manufacturer of mission-critical, real-time audio-visual solutions for civilian, government, and military client bases. The company offers integrated hardware, software, and control systems to satisfy the most demanding requirements. Since 1987, RGB Spectrum has been dedicated to helping our customers achieve *Better Decisions. Faster™*. Learn more at rgb.com.

About Trident Military Systems

Trident Military Systems, LLC specializes in providing flight simulation and training systems for military organizations, particularly the Air National Guard and Air Force Reserve. With over a decade of experience, Trident is a trusted contractor in the defense sector, dedicated to delivering high-quality, reliable training systems.

[Read the full story here](#) or to schedule an interview, please contact:

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