

Lockheed Martin Expands Global Deployment of its F-35 Flight Simulators with RGB Spectrum's New Video Technology

Full-Mission Flight Simulators Provide Safe, Cost-Effective Pilot Training in a Highly Immersive Virtual Environment

ALAMEDA, California – September 19, 2022 – [RGB Spectrum®](#), a global leader in mission-critical, real-time audio-visual solutions, has continued its partnership with Lockheed Martin to globally equip F-35 flight simulators with its latest video processing technology. The *Zio*® Video-over-IP platform provides distribution, recording, and display of video, allowing streaming live and recorded video content between each of the F-35's main simulator components, pilot cockpits, Instructor Operator Stations (IOS), and After-Action-Review (AAR) debrief rooms.

Lockheed's F-35 Full-Mission Simulators (FMS) address air-to-air, air-to-ground, and electronic warfare missions. Beyond preparing fighter pilots for combat, the FMS also provides synchronous aircraft missions for squadron training. With RGB Spectrum, Lockheed Martin is upgrading FMS simulators with our advanced *Zio* networked video platform including H.264/H.265 encoders, decoders, multiviewers, and recorders.

Lockheed's FMS upgrade objectives were to achieve greater system interoperability with H.264 Video-over-IP support, improve simulation efficacy, and reduce overall system costs. The new *Zio* platform met these objectives. The simulators stream content in real-time to the Instructor's Operator Station (IOS) to enable instructors to view actions by pilots. Instructors can use full playback controls, including frame-by-frame jog/shuttle and variable speed forward/reverse playback for a thorough review. The *Zio* platform includes an extensive array of components, all managed through an intuitive user interface featuring video thumbnail previews and drag-and-drop simplicity.

“The *Zio* platform is a new and different approach to Video-over-IP,” said Bob Marcus, president, RGB Spectrum. “It sets a new standard for IP video distribution and display in terms of features and simplicity of design. Its superior performance and scalability make the *Zio* platform ideal for use in simulation and command-and-control.”

Marcus continues, “The F-35 FMS is one of the most sophisticated simulators in the world, supporting one of the most advanced planes in the world. We are proud to be a part of this effort.”

RGB Spectrum's *Zio* platform and other video solutions are deployed in military applications worldwide, including P-8 Poseidon trainers, simulators for the Global Hawk/Triton UAV, F-16 and F-22 aircraft,

Apache, Kiowa, Chinook helicopters, at the NASA/Kennedy Space Center, U.S. Army Operational Test Command, on ships of the U.S., Japanese and Canadian navies, and in the THAAD, MEADS, CRAM and BAMS missile defense systems.

For more information, visit <https://www.rgb.com/solutions/defense-aerospace>. If you are attending the [Air, Space and Cyber Conference](#) in Washington, D.C., September 19-21, 2022, please visit booth #1707 to see our latest video technology for Tactical Operations Centers, C4ISR, simulation and training, missile testing, and more.

Our mission: *Better Decisions. Faster.™*

About RGB Spectrum

RGB Spectrum is a leading designer and manufacturer of mission-critical, real-time audio-visual solutions for commercial, government and military clients. The company offers integrated hardware, software, and control room systems to satisfy the most demanding requirements. For more information, visit www.rgb.com.

Media Contact

Courtney Mamuscia
courtney@rgb.com
303-250-0080