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Achieving the Best Thermal Imaging Performance for Unmanned Airborne Systems — Per Unit Gram, Volume, Watt (and Dollar)

Thursday, November 01, 2018 1:00 PM - 2:00 PM EDT

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Presented by



About This Webinar

There is an ever-increasing need for smaller, lighter, and more powerful imagers — thermal imagers in particular — as the remotely piloted aircraft (RPA) business (also known as unmanned airborne vehicles — UAVs — or drones) grows. For most military applications and many commercial applications, thermal imaging is the primary imaging mode from these airborne vehicles. In many performance cases, the thermal imager is the most valuable, largest, and heaviest payload on the vehicle, and thus has the greatest need for optimization for flight applications.

This webinar will address many of the applications and challenges of developing thermal imaging camera engines designed for airborne imaging, with an emphasis on low SWaP (size, weight, and power) for unmanned aircraft. Presenter Chris Johnston, founder and president of Sierra-Olympic Technologies, will discuss basic considerations of airborne imaging metrics, and challenges in the areas of sensors, optics, power, and downlinks. Johnston will also offer a variety of payload examples and will update participants on the current state-of-the-near-term shelf of components and the challenges developers face in this ever-restrictive weight-volume-power-cost space.

About the presenter:

Since founding Sierra-Olympic Technologies Inc. in 1995, Chris Johnston, the company's president, has grown the business into a leading developer of thermal imaging camera technology for low SWaP-Cost applications. Since 2006, the company has shipped over 4000 thermal imaging systems for military UAV systems, the vast majority of which are cooled, MWIR systems. The company offers products in both uncooled LWIR and cooled MWIR technologies that represent the highest performance per unit weight-volume-power-dollar currently offered. The company has been the lead customer in a number of high operating temperature (HOT) MWIR projects, and currently supplies high-value systems on leading airborne platforms.

Who should attend:

This webinar will benefit developers and engineers who face vexing problems in the area of thermal imaging performance on airborne vehicles. Anyone who is interested in thermal imaging technology and continued growth as it applies to the UAV market will find this webinar useful.

About Sierra-Olympic Technologies

Sierra-Olympic Technologies Inc. is both a manufacturer of IR camera products and a distributor of components in IR technology. It offers advanced IR imaging systems and components for commercial, military, government, and OEM customers. Its services and products include optics, infrared camera components and engines, and specialized digital processing of IR image data.



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