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WEBINARS



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Optimization of LED Illumination for Hyperspectral Imaging Applications

Wednesday, July 9, 2025 11:00 AM - 12:00 PM EDT

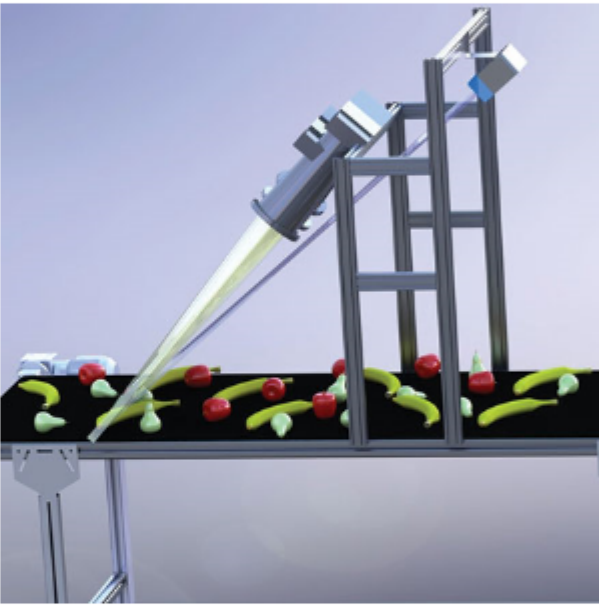
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This webinar introduces key principles of inline hyperspectral imaging and focuses on the often-overlooked design and integration of illumination. Attendees will learn how to optimize system throughput, sensitivity, and spectral accuracy by properly matching illumination performance to the capabilities of their spectral imaging cameras. We will compare traditional broadband sources, such as tungsten-halogen lamps, to modern solid-state LED systems—evaluating factors such as spectral coverage, uniformity, angular distribution, thermal stability, and cooling techniques. Whether you are developing new HSI camera systems or integrating spectral imaging into existing automation platforms, this webinar will offer practical insight into achieving better results through optimized, application-specific illumination strategies. Hyperspectral imaging (HSI) is revolutionizing industries like food processing, materials recycling, and pharmaceuticals by enabling high-speed, non-contact identification of product characteristics. Yet, one of the most underestimated—and absolutely critical—determinants of overall system performance is the illuminator. This webinar will reveal how optimized, performance-driven LED illumination strategies can dramatically improve results, unlock new capabilities, and give your solutions a competitive edge in the marketplace.

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