

Vision spectra

WEBINARS

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How to Design Machine Vision for Your Application: From Infrared to Hyperspectral

Tuesday, September 27, 2022 1:00 PM - 2:00 PM EDT

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.: About This Webinar

Andrew Bodkin, founder of Bodkin Design & Engineering, shares a technical overview of the process of machine vision sensing based on his 30 years of experience in electro-optics, custom engineering, and understanding of optical phenomenology. As the machine vision market expands and innovations become more affordable, choosing the right spectral camera or custom solution can be both exciting and overwhelming. With attention to solution-based problem-solving, Bodkin explores how to narrow in on a specific dilemma within a business's quality control process and select the correct components for machine control.

He presents an outline of machine vision techniques and shares how to identify the features common to most systems. This includes selecting focal planes and lenses to match the application. Lens selection requires consideration of focal length, f-number, spatial resolution, depth of focus, telecentricity, and uniformity. Finally, focal plane array selection includes aspects of pitch, pixel count, filtering, readout sequence, bit depth, well depth, integration time, and dynamic range.

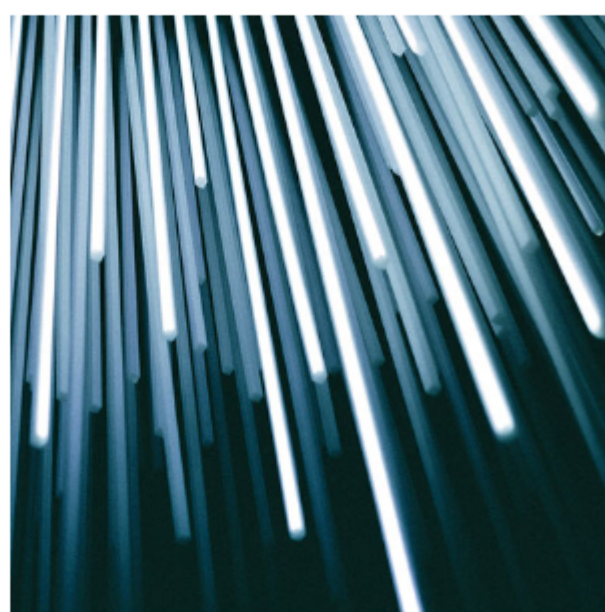
At the end of the presentation, there will be an opportunity for questions.

Who should attend:

Those who are seeking tools for their specific requirement for camera components. Engineers and R&D scientists who are interested in or working with machine vision and AI. Those who work with test and measurement, quality control, systems integration, or robotics, in industries such as agriculture, automotive, manufacturing, pharmaceutical, and semiconductors.

About the presenter:

Andrew Bodkin is the founder of Bodkin Design & Engineering (BD&E) LLC, headquartered in Newton, Mass. He has over 30 years of experience with mechanical, optical, and electro-optic systems. His firm has developed numerous patented devices and has overseen the successful introduction of a diverse spectrum of products, including miniature infrared cameras, dental imagers, and spectroscopic instruments for drug discovery. BD&E has been awarded multiple SBIR contracts to develop innovative sensor systems, has collaborated with other industry leaders to further advancements on snapshot hyperspectral imaging products, and has recently focused on adapting initiatives for industrial communities. Before founding Bodkin Design & Engineering, Bodkin was a systems engineer for Lockheed Martin Infrared and Imaging Systems, a senior engineer at Textron Defense Systems, and the Track Specialties Company president. He holds a Bachelor of Arts degree in physics from Amherst College and a Master of Science degree in electro-optics from Tufts University.



.: Mark Your Calendar

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