

# INDUSTRIAL PHOTONICS VISION



A quarterly newsletter featuring the latest advancements in and applications for industrial vision systems - from sensors to software. Manage your Photonics Media membership at [Photonics.com/subscribe](http://Photonics.com/subscribe).

sponsor

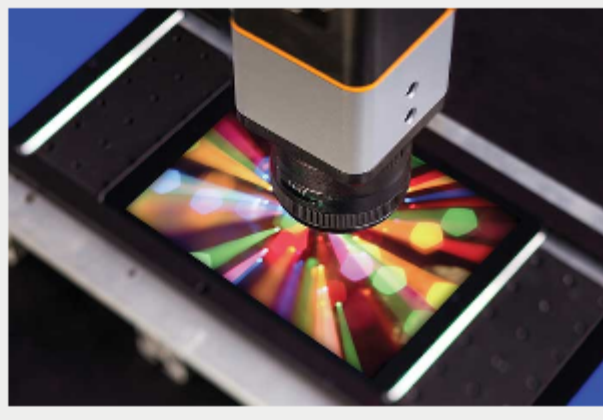


**Machine Vision**  
A great resource for design and applications!  
**PRE-ORDER NOW!** Only \$69.00

## Industrial Vision News

### Getting the Picture on Quality Control

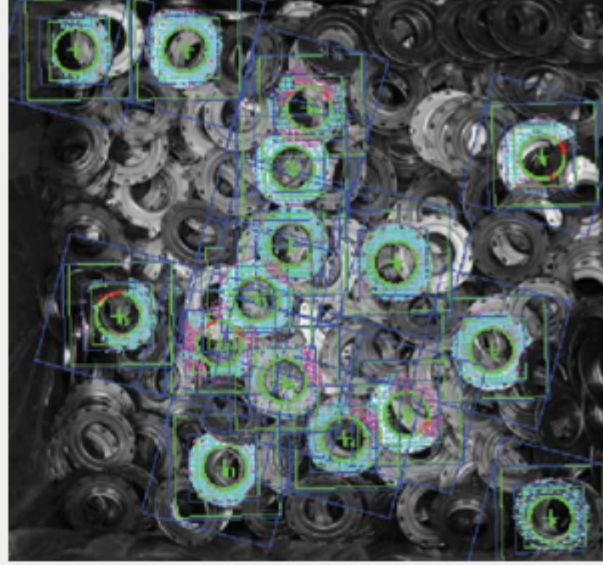
As product and manufacturing specifications tighten, imaging for industrial quality control (QC) faces challenges. Industry experts are turning to optical engineering as well as employing silicon advances and new architectures that boost performance to meet these challenges. They also are exploiting new wavelengths and other properties of light to reveal what before was difficult or impossible to see.



[Read Article](#)

### Sensor Market Set to Soar

Driven by the consumer cellphone market's insatiable demand for fast, high-quality images, there has been substantial investment in CMOS sensor technology, resulting in products that deliver smaller pixels, higher sensitivity and lower noise at a decreased cost. This intense pressure from the consumer market has benefited other market segments, providing cheaper, more powerful image sensors and expanding possible applications including machine vision, medical imaging and security.



[Read Article](#)

## Featured Products



### SL Microcontroller Laser

**Osela Inc.**

Osela is proud to introduce the new Microcontroller Option for our Streamline laser! This option allows for digital interfacing with the Streamline laser using RS-232 or RS-485 communication. The MC monitors and reports key parameters as well as allowing users to set operational conditions of the laser.

[Visit Website](#) [Request Info](#)



### An Eye for Detail

**InfraTec GmbH, Infrarotsensorik und Messtechnik**

InfraTec introduces MicroScan, an option to quadruple the image format for a radiometric thermography camera used in the civil sector with cooled FPA photon detector for the first time. For models of the ImageIR® high-end camera series, this means that images can be recorded with up to (2,560 × 2,048) IR pixels (5.2 Megapixels).

[Visit Website](#) [Request Info](#)



### Sputtered Metal Deep-UV Interference Filters

**Chroma Technology Corp.**

Chroma Technology's sputtered metal UV interference filters offer the highest levels of Deep UV transmission of any UV metal coated filters available. Coupled with the broad out-of-wavelength blocking provided by metal filters (>OD4 through the Deep-IR), they're excellent choices for transmitting UV mercury and cadmium lines from discharge lamps, excimer lamp and laser lines and nitrogen lasers.

[Visit Website](#) [Request Info](#)



### Successful Advanced Technology Commercialization for Everyone!

**Photonics Media**

A new, 12-lecture course from successful scientist-turned-businessman David Krohn will show you how to identify market opportunities and develop a roadmap for successful commercialization. Commercialization of Innovative Technology through Entrepreneurship – CITE – demonstrates how to move advanced technology into successful commercial products.

[Visit Website](#) [Request Info](#)

sponsors



## More News

### Smart Perception is the Next Stage for Machine Vision

Intelligent robotics is one of the technological disruptions that will fundamentally alter society — both from an industrial and a social perspective. And "smart perception" is a key concept that will drive this evolution toward intelligent robotics. Indeed, in the next 20 years, micro-sized cameras will look at every angle, depth, mode or change in any given scene and report back with all relevant information.



[Read Article](#)

### Embedded Vision Propels Bead Inspection

Automotive designers are more frequently turning to structural adhesives as a solution for strengthening, structurally optimizing and lightweighting automotive bodies. These adhesives enable mixing material types to achieve lightweight structures while meeting goals for safety, noise, vibration and harshness. Vehicle assemblies may now contain hundreds of adhesive beads. The dramatic increase in dispensed meters of these beads is driving a need for cost-effective, real-time, 100 percent 3D bead inspection.



[Read Article](#)

### Military-Standard Lidar Driving Advances in Autonomous Vehicles

The requirements in certain consumer applications are becoming more stringent and closer to those of military standard (mil-spec) uses. This is particularly true in the automotive sector, where the rise of driver assistance and autonomous vehicle technology — enabled by lidar platforms originally developed for military and defense — demands performance specs more closely matching the original military specs, inasmuch as driver safety is at stake.



[Read Article](#)

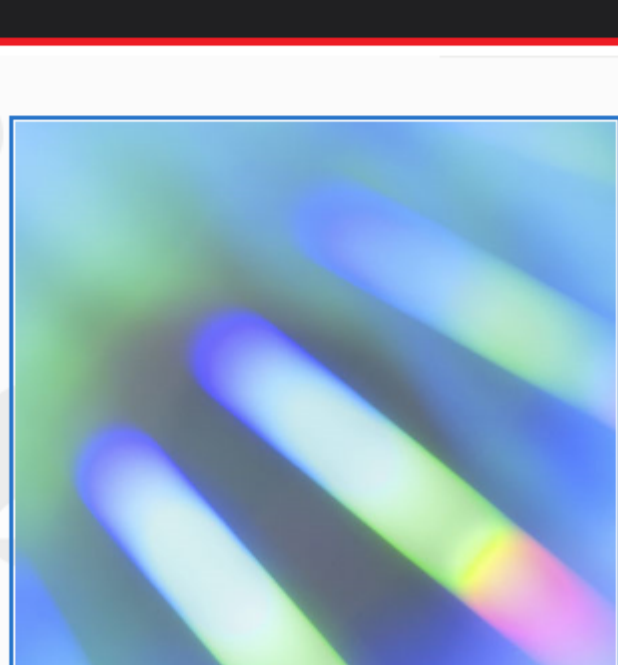
## Webinars

### Mobile Hyperspectral Imagers: Implementations and Applications

Tue, Oct 10, 2017 1:00 PM – 2:00 PM EDT

This webinar will provide an overview of the state of the art in hyperspectral imaging (HSI) and cover a number of diverse applications for HSI, from medical imaging to agriculture and anti-counterfeiting. The webinar will conclude with an outlook on some of the exciting new technologies that are expected to continue to transform this imaging modality and move it into the domain of the consumer. Presenter Hod Finkelstein is CTO of TruTag Technologies where he leads imaging systems development and microparticle production teams.

[Register Now](#)

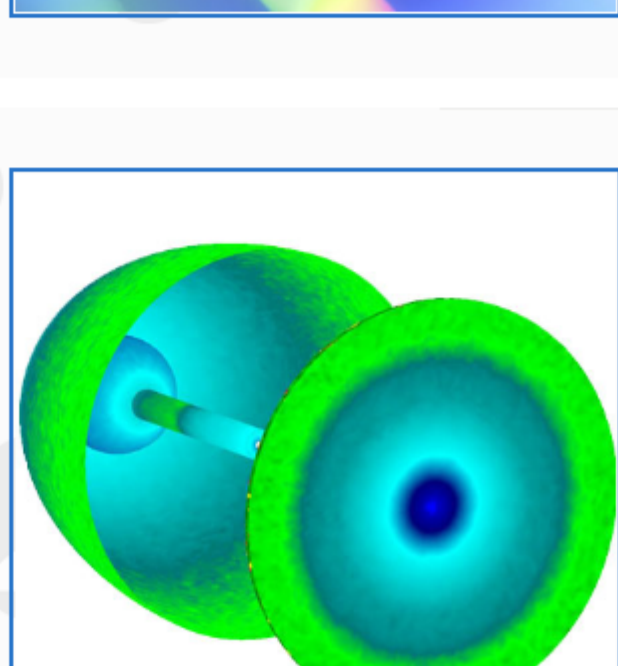


### Learn Efficient Luminaire Design Using Virtual Prototyping

Thu, Oct 12, 2017 1:00 PM – 2:00 PM EDT

In this webinar, attendees will learn how to design more efficient luminaires using Lambda Research's TracePro software, a 3D CAD virtual prototyping program with the power and tools to simulate and design luminaires. The webinar will cover how to design luminaires for maximum efficiency and specified angular output, how to use photorealistic rendering to make sure a luminaire works as designed, when to use diffusers to improve design output, how to create reports and check luminaire output for design regulations, and Tips and Tricks for luminaire prototyping in less time.

[Register Now](#)



## Industrial Photonics Magazine



Industrial Photonics is your global resource on lasers, sensors, machine vision and automation systems for materials processing, process control and production.

Visit [Photonics.com/subscribe](http://Photonics.com/subscribe) to manage your Photonics Media membership.

[View Digital Edition](#) [Manage Membership](#)

Photonics Media is currently seeking technical feature articles on a variety of topics for publication in *Industrial Photonics*. Please submit an informal 100-word abstract to our online submission form

[www.photonics.com/submitfeature.aspx](http://www.photonics.com/submitfeature.aspx).