

Quarterly newsletter from Photonics Media featuring the latest advancements in and applications for vision systems – from

sensors to software. Manage your Photonics Media membership at Photonics.com/subscribe.

Lumencor



### Alan Eddy is a machine vision specialist at Tensor ID, a system

AI Aids Automotive Manufacturing Inspection

integrator that develops solutions to difficult manufacturing problems. The company has devised ways to overcome challenges for large automakers using vision to gauge spark plug gaps and piston rings and to determine the quality of finishes on cars. Recently, though, Tensor ID has been called upon to solve a whole new category of problems as automakers confront the demands of mass-producing a new technology. Read Article



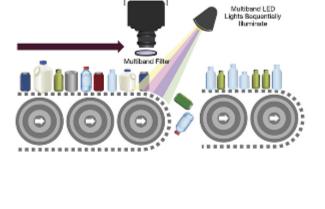
### For demanding machine vision applications, sputter-coated thin-film interference filters deliver exemplary performance. Filters for

Custom Sputter-Coated Filters Are Transforming Machine

wavelengths from the ultraviolet (UV) to the short-wave infrared (SWIR) boost contrast, enabling an imaging system to acquire more information more efficiently and at a lower overall system cost. Read Article

Novel Lighting Designs Tackle Vision Challenges in

Growth in e-commerce has significantly increased the volume of



products and goods that businesses have had to transport, putting pressure on the quality and throughput in logistics and warehousing scenarios. For companies in e-commerce, industrial automation technologies have become more important than ever before, but as processes evolve and expand, machine vision components must be able to keep pace. Read Article

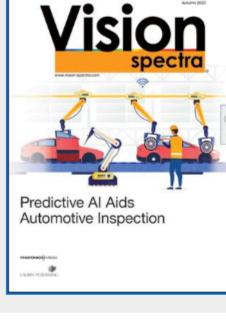
experts in the field examining the trends that enable Industry 4.0.



About Vision Spectra

Vision Applications

Logistics



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Vision Spectra is a global resource geared for the vision community, with real-world case studies of vision in action, comprehensive feature articles, and columns from

#### **FXO Camera Soon Also** ∓ GiG= With 25GigE Interface

.: Featured Products & Services



SVS-Vistek GmbH SVS-Vistek now also announces the first 25GiaE

just 50 x 50 mm, these cameras will be the most compact industrial cameras in the world with

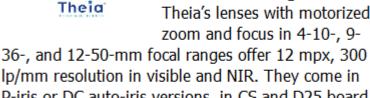
25GigE interface. Visit Website Request Info

Lights

High Intensity Flat Diffuse

Advanced illumination

Advanced illumination is



Theia's lenses with motorized zoom and focus in 4-10-, 9-

Theia Technologies

Motorized Lenses for AMR

P-iris or DC auto-iris versions, in CS and D25 board mount, and C mount for some models. The lenses

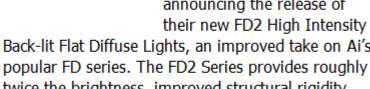
cover up to 1/1.7-in. and 1/2.3-in. image sensors and smaller. Visit Website Request Info

Operation

The new Triton HDR camera utilizes the Sony

Triton HDR Camera with

LUCID Vision Labs Inc.



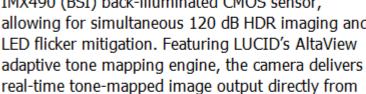
announcing the release of their new FD2 High Intensity Back-lit Flat Diffuse Lights, an improved take on Ai's

twice the brightness, improved structural rigidity, and better thermal efficiency over their predecessor.

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Machine Vision

Photonics Media Machine Vision is a book for



IMX490 (BSI) back-illuminated CMOS sensor, allowing for simultaneous 120 dB HDR imaging and LED flicker mitigation. Featuring LUCID's AltaView

the camera, producing data-rich 8-bit images with enhanced details in the shadows and highlights. Visit Website Request Info

CELESTA Light Engine

Lumencor Inc. CELESTA Light Engine houses

seven lasers in a turnkey

illuminator for fluorescence

🥭 semi



#### anyone designing or selecting machine vision systems, and implementing or considering

design and selection, camera sensors, image Request Info



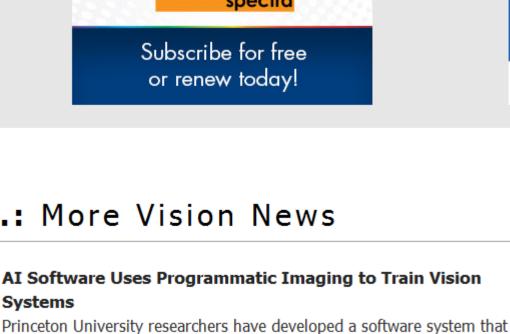
SEMICON

EUROPA

confocal spinning disk microscopy and spatially resolved transcriptomics.

Request Info

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### aims to overcome limits to existing generative AI systems and quickly create image sets to prepare machines for nearly any visual setting. The system, called Infinigen, creates natural-looking objects and

environments in three dimensions.

# Oak Ridge Researchers Use Air-Leak Detection System to Visualize Building Drafts

more accurate readings far more quickly than current diagnostic tools allow. Computer Vision Enhanced Sensors Aid Mobility-Challenged Patients Researchers from Pohang University of Science and Technology (POSTECH) have developed optical sensor technology to

allows home energy auditors to see air leaking from a building in real time with the help of a camera. This could provide Read Article

Read Article

# .: Next Issue:

# Vision Spectra. Please submit an informal 100-word abstract to visionspectra@photonics.com, or use our online

muscle movements.

Features

**Photonics Media** is currently seeking technical feature articles on a variety of topics for publication in our magazine

AI and Inspection in Manufacturing, Vision and AI for Inspecting Lithium Ion Batteries, and AI-Powered Cobot Inspection

Read Article

Researchers at the Department of Energy's Oak Ridge National Laboratory (ORNL) have created a detection system that

aid patients with limited mobility during their rehabilitation. The sensor integrates computer vision technology to help track

submission form www.photonics.com/submitfeature.aspx.



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