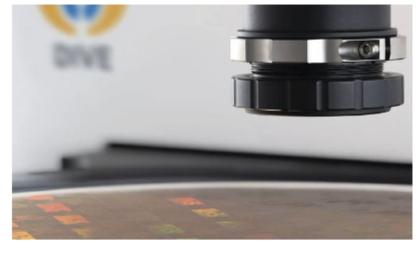


Bimonthly newsletter from Photonics Media featuring the latest advancements in and applications for vision systems from sensors to software. Manage your Photonics Media membership at Vision-Spectra.com/subscribe.



Hyperspectral Imaging Boosts Wafer Inspection with Help of Al

Hyperspectral imaging combines spectroscopy, which provides material and topological information, with imaging for shape and structure recognition. This convergence of technology yields a comprehensive data set for those in the manufacturing sector. Hyperspectral imaging has been leveraged in a number of applications from medical imaging

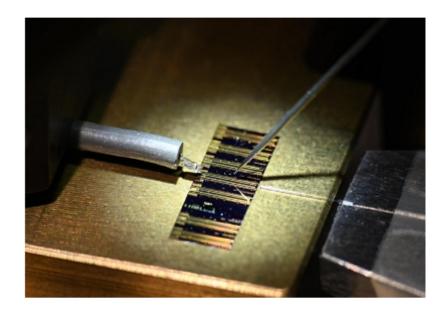
and agriculture to defense and surveillance. But the technology can also be a much-needed boon in the factory as an aid for materials and quality inspection. Read Article



Noodle Quality in Production

Al-Driven Vision Monitors Instant

Instant noodles, a global staple, are consumed at a rate of more than 100 billion servings annually, and there was a 10% surge in demand for them during the pandemic alone. Major producers in countries such as China, Japan, Korea, and Taiwan supply a wide variety of instant noodle brands with diverse flavors, catering to millions of consumers. Manufacturers must ensure that each batch meets the desired standards for texture, appearance, and taste, and that machine vision cameras can detect defects in instant noodles in mere

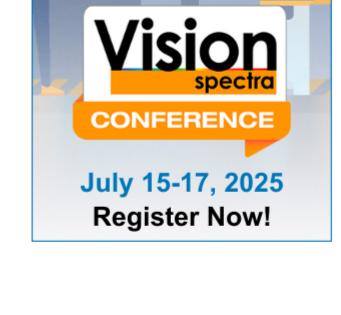


Surpasses its Analog Version, With Strong Al Potential Researchers have developed a laser-based artificial neuron

Laser-Based Artificial Neuron

that fully emulates the functions, dynamics, and information processing of a biological graded neuron. With a signal processing speed of 10 GBaud — a billion times faster than its biological counterparts — the new laser graded neuron could lead to breakthroughs in fields like artificial intelligence and other types of advanced computing. Read Article





3S Series High-Resolution

3D Sensors

Featured Products & Services



Zebra Technologies Inc. Zebra's 3S Series delivers best-in class 3D scanning

technology, the 3S series scans areas with submillimeter resolution and accuracy for both static scenes and items in motion. Visit Website Request Info

to address a broad range of machine vision

automation applications. Using Structured Light

PHOTONICS



Crafting an efficient machine vision system involves

Teledyne DALSA, Machine

11 Specs for Effective

Machine Vision

numerous factors that impact its performance. This

to watch out for when building a complete vision system. Visit Website Request Info Looking for something else? Check the Photonics

list will review 11 specifications and the variables

marketplace[®]

Marketplace.



The Edge AI and Vision Alliance has named the 2025 winners of the Edge AI and Vision Product of the Year Awards and the AI Innovation Awards. The Edge Al and Vision Product of the Year Awards celebrate building-block components that enable edge

Al and vision applications, while the Al Innovation Awards recognize end products that use edge Al or vision technologies. The awards recognize diverse applications from medical diagnostics to autonomous drones. Read Article

Research Project to Bolster Edge Al with Sensor Tech

Edge Al and Vision Alliance Names Annual Award Winners

An interdisciplinary research project is developing new technological approaches for better and more effective integration of artificial intelligence at the edges of IT networks. These developments could fuel future applications in industrial electronics, medical technology, and environmental monitoring. Read Article STEMMER IMAGING Updates Leadership Structure

Machine vision company STEMMER IMAGING has updated its leadership structure with the aim of driving commercial growth,

innovation, and operational excellence. Peter Keppler, who has been with STEMMER for the past 27 years, has been promoted to chief marketing officer from his previous position as senior director of international sales enablement.

Read Article Next Issue

Embedded Vision, Hyperspectral and multispectral imaging, Next-Gen UAV hyperspectral processing, and 3D Vision

About Vision Spectra

Features



Photonics Media is currently seeking technical feature articles on a variety of topics for publication in our magazine Vision Spectra. Please submit an informal 100-word abstract to visionspectra@photonics.com, or use our online submission form www.photonics.com/submitfeature.aspx.

> 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 experts in

the field examining the trends that enable Industry 4.0. Stay current with a FREE

Visit Photonics.com/subscribe to manage your Photonics Media membership.

subscription to the digital or print edition. Deep Learning Governs

View Digital Edition Manage Subscription



We respect your time and privacy. You are receiving this email because you are a Photonics Media subscriber, and/or a member of our website, Photonics.com. You may use the links below to manage your subscriptions or contact us.

> Questions: info@photonics.com Unsubscribe | Subscribe | Subscriptions | Privacy Policy | Terms and Conditions of Use

Photonics Media, 100 West St., PO Box 4949, Pittsfield, MA 01202-4949 © 1996 - 2025 Laurin Publishing. All rights reserved. Photonics.com is Registered with the U.S. Patent & Trademark Office. Reproduction in whole or in part without permission is prohibited.

