

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.



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Without Motion Artifacts Logistics can spell the difference between success and failure in

3D Scanning Method Captures Fast-Moving Objects

business. Receiving, storing, inspecting, sorting, packaging, labeling, shipping — all of these steps need to happen quickly to meet rising customer demands and deadline expectations. Maximizing throughput and ensuring process safety and reliability by properly optimizing logistics operations is therefore indispensable. Read Article



With a range of newly available and already established imaging modalities, vision guidance is helping to drive a steady ascension of

Vision Elevates Robot Performance in Logistics

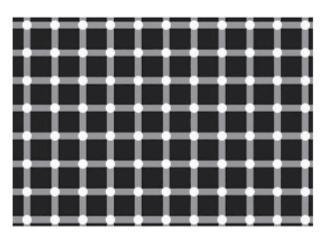
robot capabilities in the logistics sector. Read Article



AI-based visual inspection tools can help to support decisions made by human operators. Read Article

For manufacturers specializing in short-run or seasonal products, it is often too costly to fully automate inspection processes. In such cases,

AI as a Decision-Support Tool for Human Operators



About Vision Spectra



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Vision Spectra is a global resource geared for the vision community, with real-world

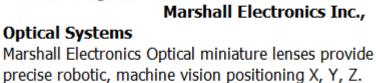
case studies of vision in action, comprehensive feature articles, and columns from

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

Mini Lenses for Robotic Precision

Marshall Electronics Inc.,

.: Featured Products & Services



perform to specification without high and consistent optical performance. Our high quality glass element

aluminum housing lenses, with and without glass filter produced in... Visit Website Request Info

Robotic and machine vision products cannot

C-Mount Lenses

Schneider Optics Inc.,



Baumer Optronic GmbH Baumer presents the AX smart

Smart Camera with NVIDIA

Baumer AX. Al Ready

Jetson Modules

processing platform for AI applications. Visit Website Request Info

eCapture Pro

compact, flexible, and freely programmable image

Comprehensive Software



400 to 1000 nm.

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antireflection coating that allows transmission from

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Inc.

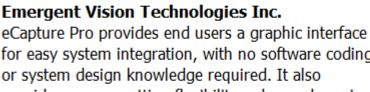
Infinity Wide View

Seiwa Optical America

Seiwa Optical's MS-150-TC

unit series for visible to

infrared wavelength. The



for easy system integration, with no software coding

provides camera setting flexibility, advanced preview and recording capabilities, synchronized capture to microsecond accuracy, and more. Visit Website Request Info

Alluxa

filters, provide the highest performance optical thin

film solutions available today. For example, the Ultra

Alluxa

Alluxa Ultra Series Filters

Alluxa Ultra Series Filters,

Dichroic, UV, IR, and Notch

including Narrowband,



(D)25, MS-200-TC(D)26.5, MS-400-TC(D)26.5 is an infinity wide view microscope

Microscope Unit

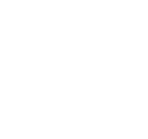
standard unit is available in 18 variations depending on the focal length (magnification), camera mount, and with or without coaxial epi-illumination.

Request Info GigE Cameras Now with

The MATRIX VISION, a brand of Balluff, mvBlueCOUGAR camera portfolio now includes UVsensitive versions, extending the range of

UV Sensitivity

Balluff Inc.



the industry.

Series Flat Top Narrowband filters offer the narrowest bandwidths and squarest filter profiles in

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HySpex

spectral integrity per pixel for all applications. All

traceable to NIST and PTB standards. HySpex can

HySpex cameras are delivered with calibration

offer seamless integration of HW and data

processing SW, providing their users with

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HySpex Hyperspectral Cameras

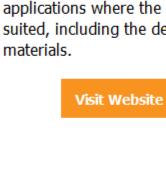
HySpex offers exceptional

ground, remote sensing is

providing an important view

be seen with our eyes alone.

of our surroundings that can't



applications where the GigE Vision cameras are well suited, including the detection of transparent

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Peak Performance for **Embedded Vision** Applications

MATRIX VISION GmbH

With the new series

mvBlueNAOS4, MATRIX VISION complements the

especially designed for the fast sensors of the Sony

image quality with small pixel size and high transfer

Pregius S series. These sensors achieve both high

rates. The mvBlueNAOS4 uses the direct way for

image transfer: PCI Express. The interface is a

standard used in all PC systems as well as in

embedded processor platforms.

embedded vision portfolio with models that are

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Request Info Remote Sensing Photonics Media From space and the sky around us to firmly on the

A variety of optical technologies are having an

impact on applications as diverse as agriculture and

riding in and even guiding vehicles on the highway.

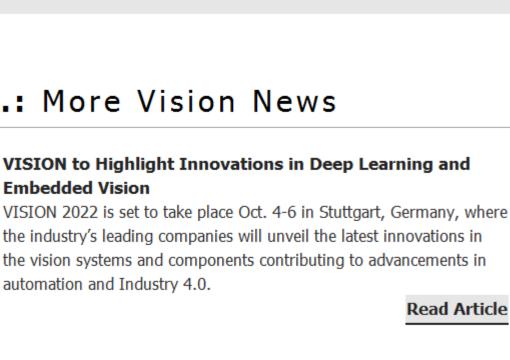
defense, weather and climate, and are now part of

the payload on satellites, planes and drones, and

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TO THE IR SPECTRUM





transfer of technology, developed a quantum-enhanced kernel method for classification on universal gate-based quantum computers, as well as a quantum classification algorithm on a quantum annealer.

Quantum Artificial Vision System Shines on Production Line

existing machines to enhance their capabilities. 3D printers using the algorithm could also learn how to print new materials

Multiverse Computing, a developer of quantum computing solutions, and IKERLAN, a Spain-based center supporting the

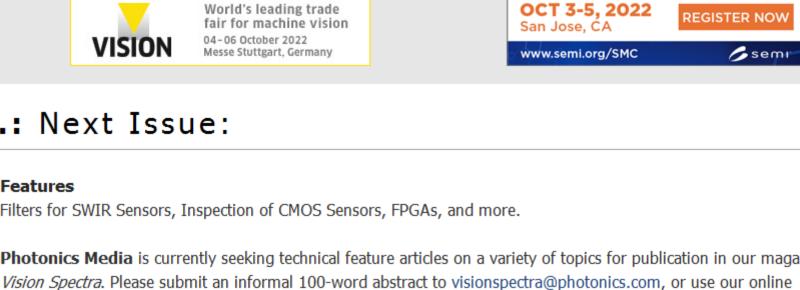
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