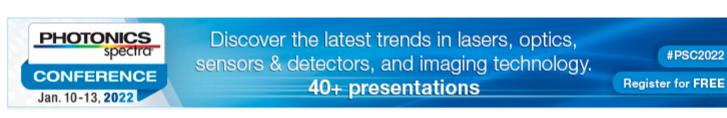




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Machine vision lighting technology must constantly evolve to meet

Intelligent Lighting Brings Machine Vision to New Heights

increasing demands and keep pace with advancing imaging technologies. Dynamic machine vision systems, the Industrial Internet of Things, and deep learning are areas in which lighting innovations have enabled previously unattainable factory applications while moving machine vision beyond the plant floor. Read Article

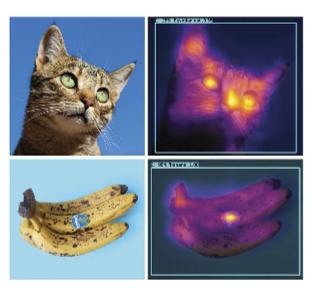


More robust computing power, coupled with recent optimizations in

Cameras

Running AI at the Edge

how AI networks are processed, has created new opportunities for the use of AI on edge devices, specifically by using convolutional neural networks to classify images into categories, detect objects in images, or find unexpected anomalies in images, such as damage on a produced part. Yet moving AI processing to the edge brings with it new challenges, including making AI systems user-friendly within a manufacturing environment. Read Article



No matter the camera technology implemented, it is critical that the operating temperature of sensitive imaging components is maintained

Active Cooling Expands Design Options for Thermal

below the maximum limit during use to ensure high-quality images. An IR sensor in surveillance cameras, for example, captures infrared light to measure radiation (heat) in the target object and converts it into a visual image. To obtain maximum image quality, IR sensors must be cooled to subzero temperatures to minimize thermal noise, which is the difference between the target object and its surrounding environment. Thermal noise will disrupt and distort the image quality. Read Article

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



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Alluxa Ultra Series Filters, including Narrowband, Dichroic, UV, IR, and Notch

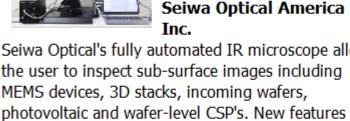
Alluxa Ultra Series Filters

Ultra Series Flat Top Narrowband filters offer the narrowest bandwidths and squarest filter profiles in the industry. Visit Website Request Info

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Baumer AX. Al Ready Smart Camera with NVIDIA

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Seiwa Optical's fully automated IR microscope allows

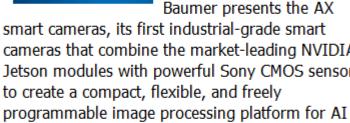
Fully Automated IR

Microscope

allow you to take stitching images with different extended exposure, 3D views and measurements. Visit Website Request Info

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applications.

cameras that combine the market-leading NVIDIA Jetson modules with powerful Sony CMOS sensors

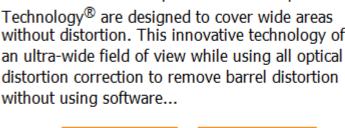
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Baumer presents the AX

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Photonics Media Machine Vision is a book for anyone designing or selecting



patented Linear Optical Technology® are designed to cover wide areas without distortion. This innovative technology offers

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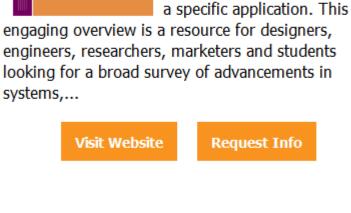
Marshall Electronics' Optical miniature lenses provide

Robotic and machine vision products cannot perform

precise robotic, machine vision positioning X, Y, Z.

Mini Lenses for Robotic

Precision Marshall Electronics Inc.,



Machine Vision

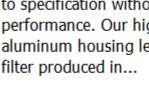
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machine vision systems, and implementing or considering the use of machine vision for

Machine Vision

engineers, researchers, marketers and students looking for a broad survey of advancements in Request Info

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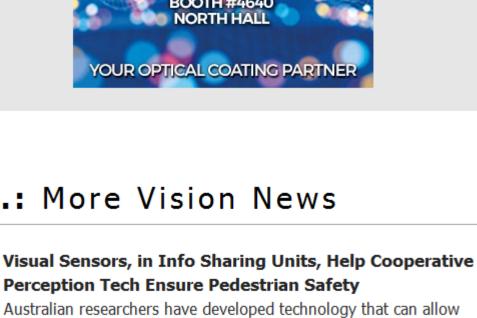
to specification without high and consistent optical performance. Our high quality glass element aluminum housing lenses, with and without glass

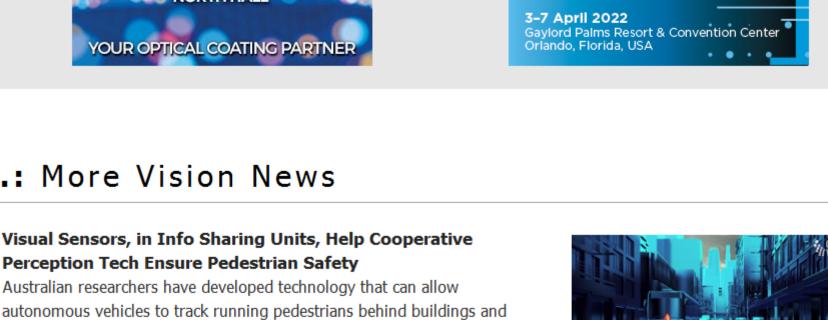
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who may be otherwise obscured.

which the researchers liken to "X-Ray"-style vision, is capable of

cyclists that may be obscured by other vehicles. The vision technology,

penetrating through to pedestrians in blind spots and detecting those

Allied Motion Makes Second Acquisition in Three Days, Snaps Up ALIO Industries Allied Motion Technologies, a designer and manufacturer of precision and specialty controlled motion products, acquired ALIO Industries, a manufacturer of advanced linear and rotary motion systems for nano-precision applications. The purchase price of \$20 million consisted of \$15 million in cash and \$5 million in common stock. In addition, there are potential earn-out payments over the next three years based on ALIO achieving certain annual EBITDA targets.

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Teledyne FLIR has won a development contract worth up to \$15.7 million with the U.S. Defense Threat Reduction

The technology will allow the capability to digitally map hazardous material threats from sensor data.

Agency's Joint Science and Technology Office (DTRA JSTO) to develop battlefield threat-mapping and visualization tools.

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