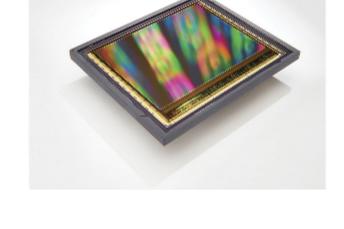


Quarterly newsletter from Photonics Media featuring the latest advancements in and applications for vision systems – from sensors to software. Manage your Photonics Media membership at Photonics.com/subscribe.

Automatic optical inspection systems provide fast, noncontact, and

Inspecting CMOS Image Sensors for Dirt and Defects

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playing an important role in imaging agricultural products, food,

Selecting the Right Filter Is Critical to SWIR Imaging

pharmaceuticals, and high-heat glass and metal manufacturing. Given the strong absorption of moisture within the SWIR range, users can check fill levels in opaque bottles, visualize underlying features such as anti-counterfeiting security codes, or use the technology for a wide range of other applications. Read Article

The Rise of Embedded Vision Puts FPGAs in the Spotlight A field-programmable gate array, as the name implies, is an integrated

connections between these gates can be changed at will, allowing for rewiring that alters what the FPGA does. It can turn pixels into a video stream for further processing; locate features such as the eyes, nose, and mouth to determine where a person is looking; or perform other

circuit that contains an array of transistor-based logic gates. The

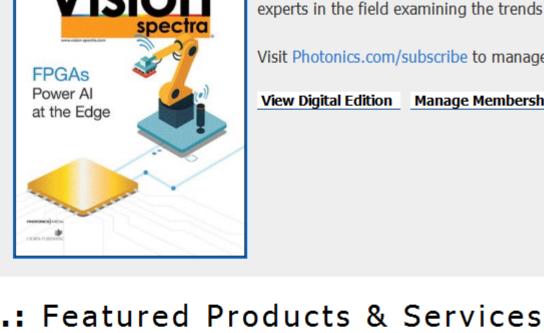
Shortwave IR (SWIR) imaging has seen a surge in use in recent years,

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vision tasks, such as object detection and identification. About Vision Spectra 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.

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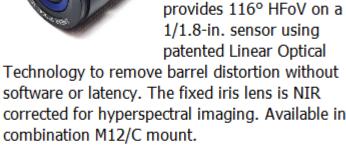
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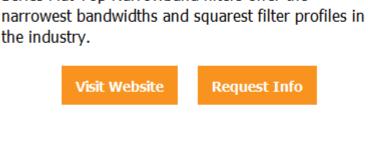
UV Sensitivity Balluff Inc.

The MATRIX VISION, a

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GigE Cameras Now with



film solutions available today. For example, the Ultra Series Flat Top Narrowband filters offer the

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Libraries

Bundle: a set of Convolutional Neural Network-based

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applications to perform image classification

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capabilities.

applications where the GigE Vision cameras are well

portfolio now includes UV-

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ground, remote sensing is providing an important view

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Technologies Inc.

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impact on applications as diverse as agriculture and defense, weather and climate, and are now part of the payload on satellites, planes and drones, and riding in and even guiding vehicles on the highway.

of our surroundings that can't be seen with our eyes alone. A variety of optical technologies are having an

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segmentation (EasySegment), and object localization

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The In-Sight 2800 vision system combines artificial

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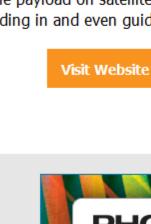
proofing.

categorization and sorting tasks, In-Sight 2800 provides an easy-to-deploy solution for error-

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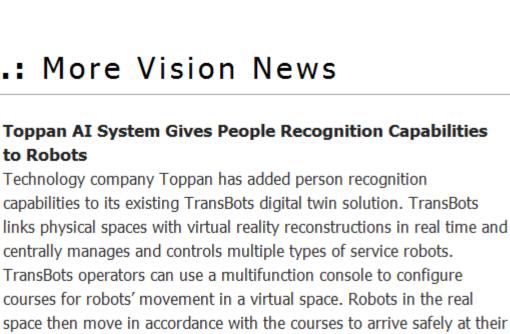
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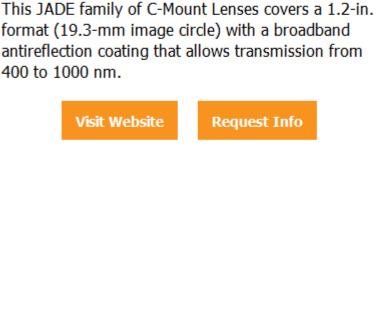


Industrial Optics



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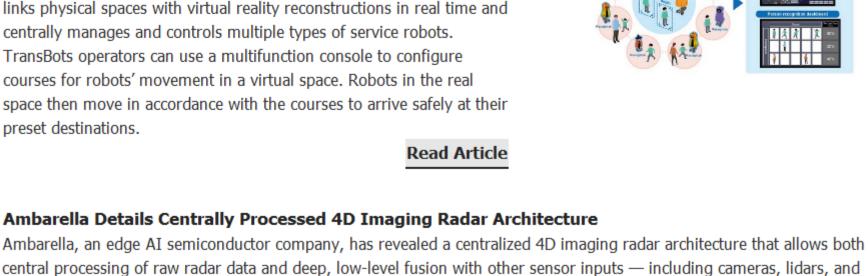
Toppan AI System Gives People Recognition Capabilities capabilities to its existing TransBots digital twin solution. TransBots links physical spaces with virtual reality reconstructions in real time and



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ultrasonics. The architecture provides greater environmental perception and safer path planning in AI-based advanced driver assistance systems and L2+ to L5 autonomous driving systems, as well as autonomous robotics, the company said.



Cognex Acquires German Firm SAC Sirius Advanced Cybernetics Cognex has acquired SAC Sirius Advanced Cybernetics GmbH, a German provider of lighting technology. The acquisition

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preset destinations.

of SAC and its technology will expand Cognex's capabilities in defect detection, and accelerate its growth trajectory with electric vehicle battery manufacturers, according to Cognex.

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