

INDUSTRIAL PHOTONICS VISION



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

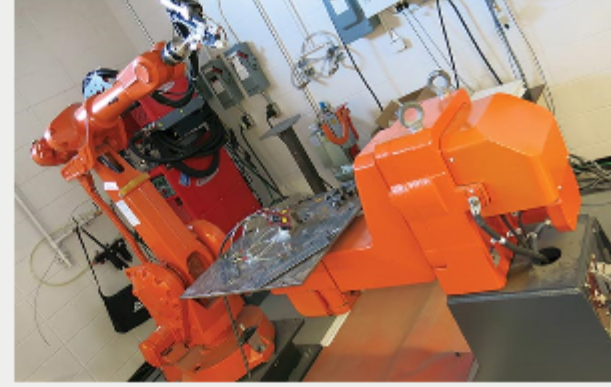
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Industrial Vision News

From Vision-Guided Robotics to Smart Cameras, Turnkey Systems Offer Versatility

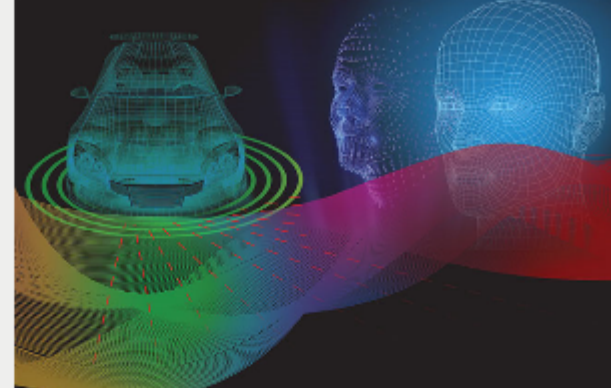
Integrators and operations managers must consider numerous choices when implementing turnkey vision systems in industrial environments. Depending on the application, systems are generally developed in four broad categories: single or multiple smart cameras; cameras interfaced to PC-based systems; robot guidance systems; and custom libraries-based solutions.



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3D Sensing Bolsters Robotic Guidance

With prices falling and performance rising, 3D vision, or depth sensing, is showing up in new applications, including allowing robots to map places and tasks, such as figuring out how best to avoid people. Other uses include pick-and-place, combined assembly and inspection, and moving shelves of items from one location to another.



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Featured Products



Canon 3-D Machine Vision System for Random Bin Picking

Canon U.S.A. Inc., Industrial Products Div.

Employing Canon proprietary digital imaging, recognition, data-processing, and optical technologies, the RV series serve as the "eyes" and "brain" of industrial robots to meet production requirements of high accuracy, speed, and low maintenance. These three-dimensional eyes are capable of seeing randomly piled parts in depth...

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IDS NXT Industrial Cameras with AI

IDS Imaging Development Systems GmbH

Redefining industrial cameras: the full-featured standard industrial cameras IDS NXT rio & rome can be used for a wide variety of tasks thanks to powerful hardware and vision app concept, which even allows AI tasks.

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Machine Vision

Photonics Media

Machine Vision is a new book for anyone designing or selecting machine vision systems, and implementing or considering the use of machine vision for a specific application. This engaging overview

is a resource for designers, engineers, researchers, marketers and students looking for a broad survey of advancements in systems, components and processes.

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ContrastMax High Performance Filters for Machine Vision

Chroma Technology Corp.

ContrastMax filters from Chroma feature sputtered interference coatings engineered for automated vision applications like machine vision and robotic guidance. These optical filters offer superior levels of contrast and blocking of unwanted light, while also performing well at wide viewing angles.

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VISION IN THE 3RD DIMENSION
Ensenso X 3D cameras with 5 MP sensors

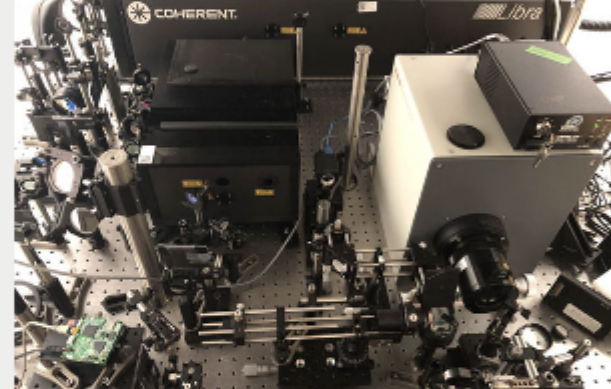
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Ultrafast Camera Takes Trillions of Images per Second in a Single Exposure

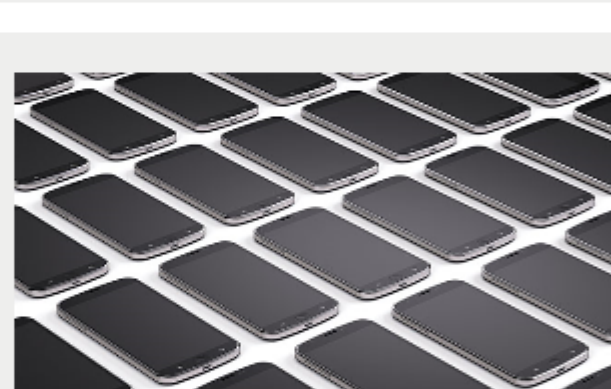
Single-shot 10-trillion-frame-per-second compressed ultrafast photography (CUP) is now possible with a new camera, called T-CUP, which passively captures dynamic events with 100-femtosecond (fs) frame intervals in a single camera exposure. According to the researchers, T-CUP has set a new record for real-time imaging speed.



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Display Manufacturing Enriches High-Tech Products

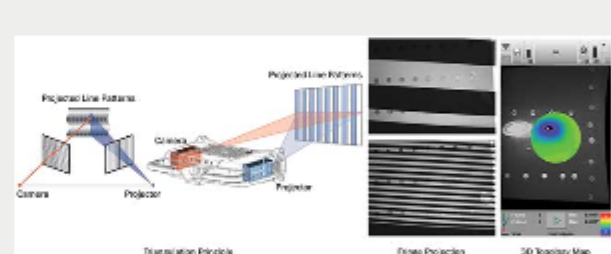
Cutting-edge technologies are creating opportunities for companies to produce increasingly higher-quality displays for consumer electronics - from big-screen TVs to smartphones. A highly visible example is the ever-increasing picture clarity in large-screen TVs, and in the evolution of smartphone products that have become essential social and productivity mobile companions to consumers.



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Application-Specific Machine Vision Simplifies Aircraft Maintenance

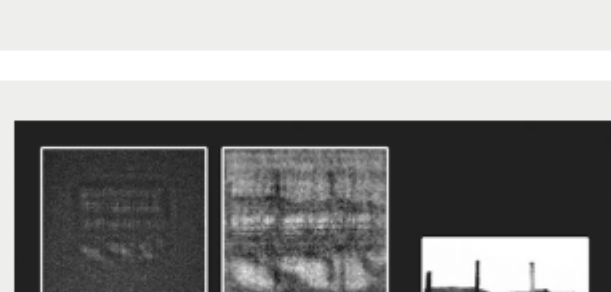
Vision systems technology shows significant promise to improve aircraft inspection efficiency while providing operators with a better understanding of airframe integrity and safety. However, to deliver these gains to an airline's bottom line, the vision system must coexist with and empower the technician/engineer.



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Deep Learning Is Used to Recover Objects in Low Light

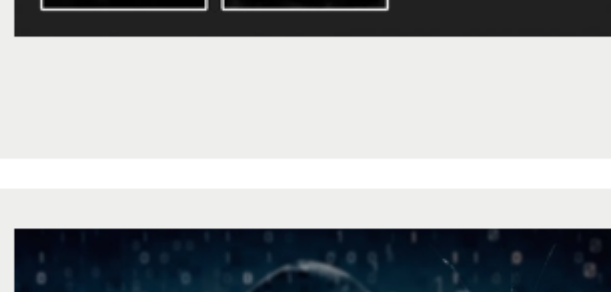
A new imaging technique demonstrates that deep neural networks (DNNs) can be used to illuminate transparent features in images taken with very little light. The researchers used a DNN to reconstruct transparent objects from images of the objects taken in near total darkness.



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Imaging Method Traces 3D-Printed Objects Back to Their Source

PrinTracker is a 3D-printer identification system that can precisely trace the printed 3D object to its source 3D printer based on the object's "fingerprint." It could provide an effective, robust, and reliable way for law enforcement agencies and businesses concerned about intellectual property to trace the origin of 3D-printed goods.



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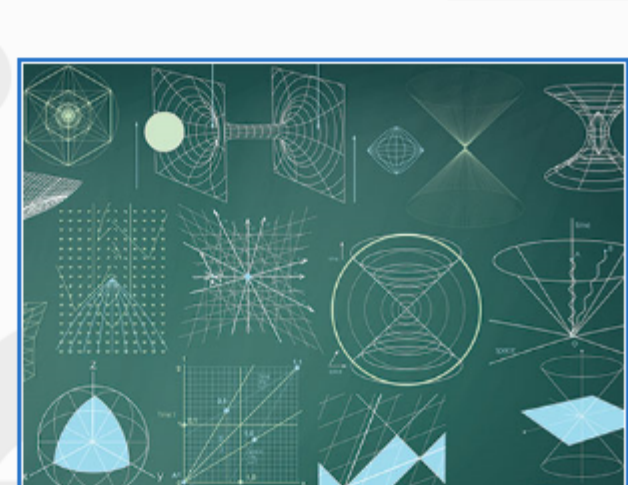
Webinars

Deep Learning in Machine Vision

Tue, Mar 5, 2019 10:00 AM - 11:00 AM EST

This webinar will give users of machine vision software insight into deep learning technologies and the possibilities that deep learning offers for machine vision applications. The presenter, a deep learning expert from MVTec's Solutions Team, will introduce deep learning technologies based on MVTec HALCON and provide an overview of deep learning machine vision applications. He will also cover some of the best practices for developing and setting up deep learning applications.

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


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