

# 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](http://Photonics.com/subscribe).

## Industrial Vision News

### Embedded Vision Finds a Role in the IIoT

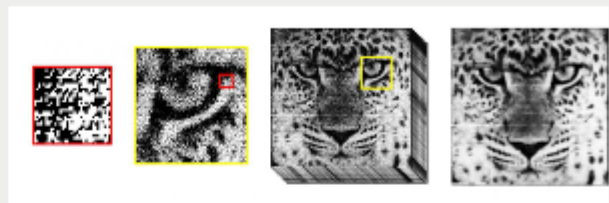
In the coming years, embedded vision will shape the embedded market as its most important trend. One key reason, particularly in the industrial setting, will be the increasing use of compact devices such as mobile vision sensors and smart cameras that have integrated embedded software.



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### Next-Gen Image Sensor Delivers High-Quality, Low-Light Imaging

A new imaging technology has been developed that can capture and count single photons with resolution as high as one megapixel and as fast as thousands of frames per second. Called the Quanta Image Sensor, or QIS, this technology enables highly sensitive, high-quality, easy-to-manipulate digital imaging as well as computer vision and 3D sensing, even in low-light situations.



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## Featured Products



### Eagle-Eyed: New Prosilica GT CMOS Cameras

**Allied Vision Technologies GmbH**

The new Prosilica GT4090, GT4096, and GT5120 are high-resolution cameras featuring the new 12, 16, and 26 Megapixel ON Semi PYTHON CMOS sensors with In-pixel Correlated Double Sampling (IP-CDS) global shutter technology that offers reduced noise and increased dynamic range.

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### Coaxlink Quad 3D-LLE

**Euresys s.a.**

Euresys announces the New Quad CXP-6 frame grabber with on-board laser line extraction for 3D profiling.

AT A GLANCE

- Laser line extraction with zero host CPU usage
- Real-time generation of 16-bit 3D height maps

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### Sputtered Metal Deep-UV Interference Filters

**Chroma Technology Corp.**

Chroma Technology's sputtered metal UV interference filters offer the highest levels of Deep UV transmission of any UV metal coated filters available. Coupled with the broad out-of-wavelength blocking provided by metal filters (>OD4 through the Deep-IR), they're excellent choices for transmitting UV mercury and cadmium lines from discharge lamps.

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### Lasers in Industry

**Photonics Media**

Photonics Media has gathered articles and other valuable resources into a guide to the current use of lasers in industry, a reference tool and a resource for learning. This book is for anyone working on, implementing or considering the application of lasers for and in industrial settings.

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## More News

### Industry Pushes New Technologies, Applications for Lidar

Digitalization of the world requires detection tools able to recognize objects and precisely measure distances quickly. Lidar-based monitoring systems are a key part of this current technological revolution because their high accuracy and speed can be used to make digital 3D representations of the target.



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### Terahertz Window Offers Untapped Potential

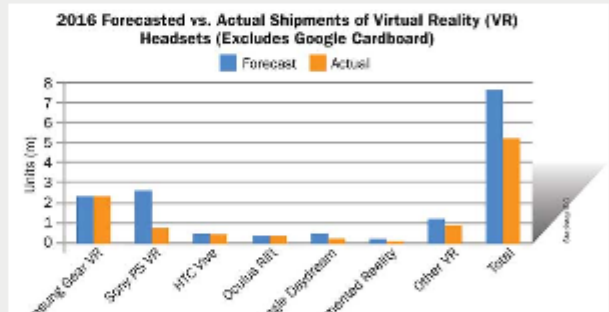
Despite its vast potential, there is one thing that still eludes terahertz waves — the discovery of the killer application that will see market demand explode and subsequently drive the investment and research that the field so badly needs to progress.



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### Display Technologies Shape the Immersive Experience

The challenges in reaching total immersive experiences are formidable, but the display industry appears to be up to the task. There are two display technologies vying for this market: LCDs and OLEDs, both in direct view and microdisplays, each with different characteristics.



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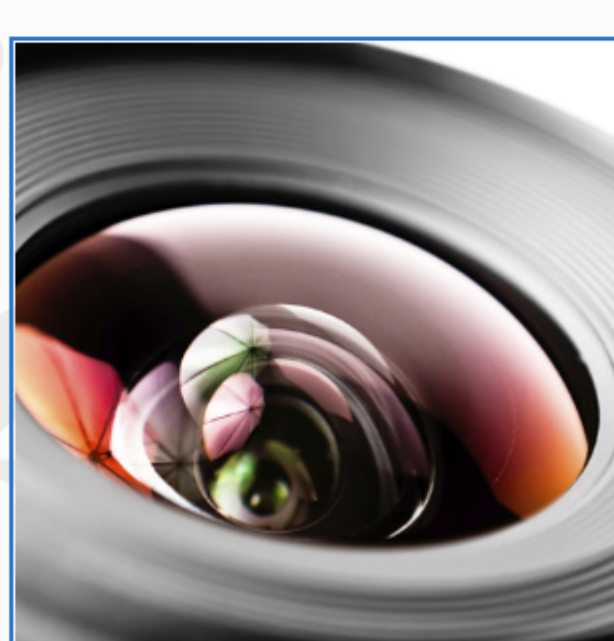
## Webinars

### Smart Cameras: Technology and Applications

Tue, Mar 13, 2018 1:00 PM - 2:00 PM EDT

Over the past few years the capabilities of smart cameras have increased dramatically. This webinar will explore the characteristics of today's smart cameras, typical applications, and how to ensure that you select the camera that best meets your needs. You will learn how smart cameras can be used to solve unique machine vision requirements and how they can reduce the cost of a machine vision application.

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### Optics and Lighting Solutions for Machine Vision

Tue, Mar 20, 2018 1:00 PM - 2:00 PM EDT

A crucial first step in any good machine vision application is developing the right optics and lighting for the application. This webinar will address the basic principles and methods of machine vision optics and lighting and review some of the many advances in methods and components that have made machine vision easier to implement in recent years.

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