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Shrinking Components Mark Embedded Cameras

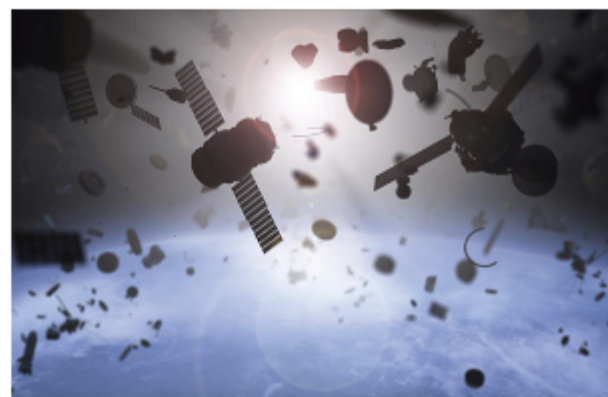
Embedded cameras, often called board-level cameras, may measure only a few centimeters in width, but they represent a key element in the evolution of machine vision capabilities. With improvements in sensors and interfaces that boost the amount of data that can be transferred in brief intervals, these devices are being placed not only in systems that evaluate quality on the industrial floor but also in systems for security monitoring, agricultural inspection, and medical examination.



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Sensors Capture Image Data from Near and Far

Imaging sensors reveal key details during the exploration of many areas of science, from untangling events at the quantum level and the fundamental processes of the cell to building our understanding of the wider cosmos. Imaging sensor technologies used in these applications can be grouped into two main types: charge-coupled devices, or CCDs — including electron multiplying CCDs — and complementary metal oxide semiconductors, or CMOSs.



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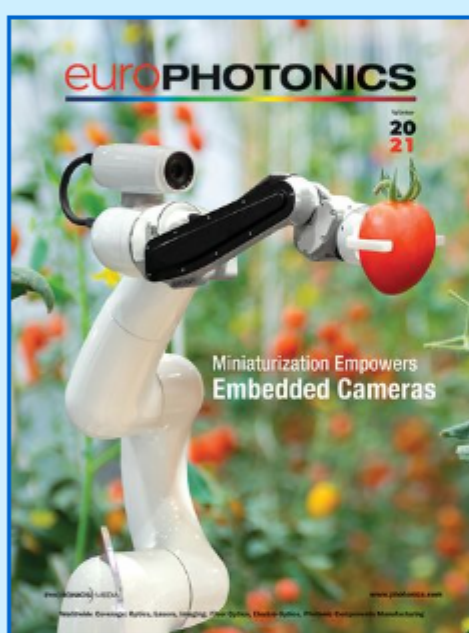
The end of an era

This year marks the 25th anniversary of EuroPhotonics, a magazine billed on its debut in 1996 as a “product-oriented publication dedicated to covering the growing market of photonics with an all-European focus.”



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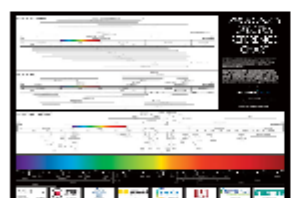


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.: Featured Products



Photonics Spectra Reference Chart

Photonics Media

This full-color, 30 × 20.5-inch poster of the photonics spectrum displays the major commercial laser lines, detectors and optical materials in the ultraviolet to the far-infrared and beyond. The chart was updated in 2021 to reflect the changing technologies in the photonics industry. The convenient format makes it easy to quickly find the information you need.

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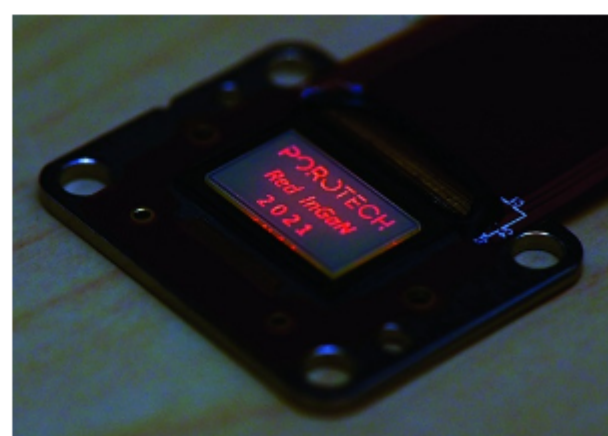
The world's premier lasers, biomedical optics, and optoelectronics event

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.: More News From Europe

Cambridge Spinout Develops Native Red InGaN Microdisplay

A microdisplay developed by University of Cambridge spinout Porotech is expected to accelerate the development and commercialization of augmented reality glasses. The company reports that the microdisplay is the first based on native red indium gallium nitride. The display has an active area of 0.55 in. diagonally and a resolution of 960 × 540.



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Fiber Laser System Shows Promise for Attosecond Light Sources, May See Use in ELI-ALPS

The combination of a fiber laser system with recent advancements in multipass cells has enabled a German research team to create a laser with a unique combination of few-cycle pulses at high average power, pulse energy, and repetition rate, and with a stable carrier envelope phase operation. With these characteristics, such a laser is ideal for driving next-generation attosecond sources, such as those at the Extreme Light Infrastructure in Europe.

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Optical Device Uses Organic Detector, Dyes, LEDs to Convert SWIR to Visible Light

A European research group has created a device for upconverting shortwave infrared to visible light. The team's all-organic SWIR upconversion device consists of a SWIR-sensitive photodetector integrated with a visible light-emitting unit in the form of an OLED display. The organic upconversion device directly converts SWIR to visible photons. It could become a low-cost alternative to the inorganic, compound-based SWIR-imaging technologies that are currently available.

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