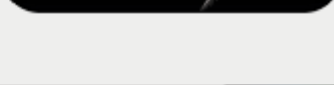
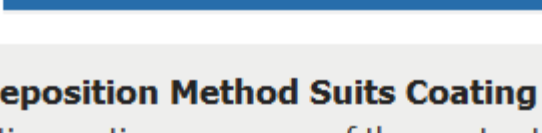


PHOTONICS spectra



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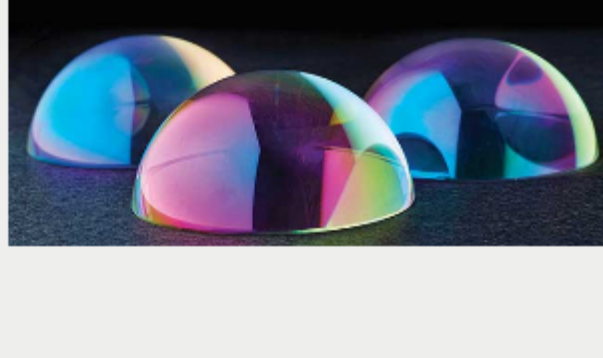
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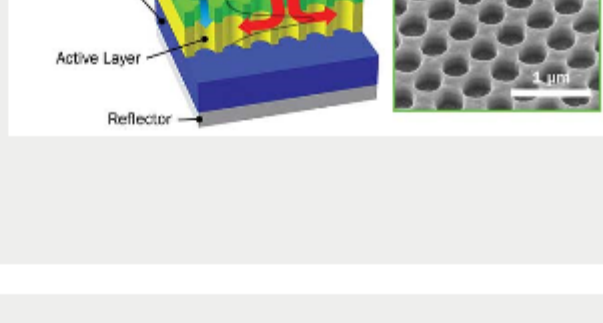
Antireflection coatings are some of the most extensively employed types of optical thin films. By reducing the amount of light reflected from a surface, such coatings improve system throughput, increase contrast, and enhance signal-to-noise ratio in virtually every type of precision optical system and in commercial products such as eyeglasses, flat-panel displays, and architectural windows.



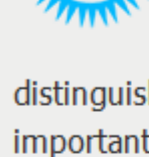
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Patterned Photovoltaic Absorbers Harvest Sunlight Better

Recent reports forecast solar power will become the world's cheapest form of energy within the decade. The dramatic decrease in the price of photovoltaic (PV) solar modules in recent years (now hovering around 31 cents per watt peak) has resulted from new advances in production — the price per module was scaled down by approximately 20 percent as production volume doubled.



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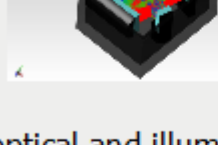
Improving Automation with 3D Vision

The additional data in a 3D image makes it possible to execute challenging tasks, such as optical character recognition. What's more, 3D vision makes it easier to distinguish between robots or other machines and people — an important capability if robots and people are to mingle freely.



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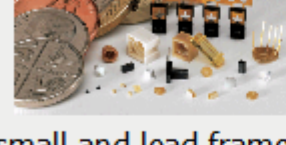
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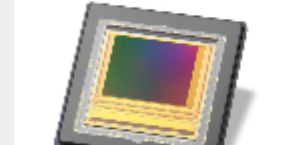


Laser Area Warning Device

Kentek Corporation
Kentek's laser AREA WARNING DEVICE is a low-cost option for automatically controlling signage to alert personnel on entry to a controlled laser area. The AWD-AUTO™ controls one or more 12VDC powered devices, triggered by the ampere draw of the laser.

The AWD-AUTO™ controls one or more 12VDC powered devices, triggered by the ampere draw of the laser.

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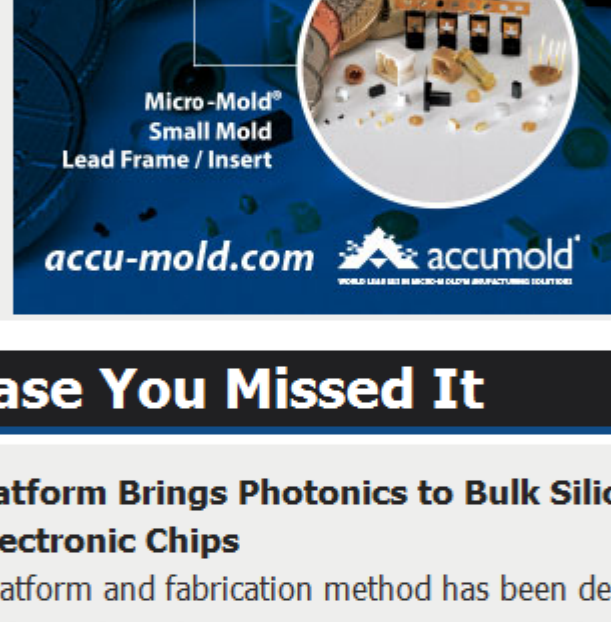


Teledyne e2v's Onyx 1.3 Low-Light Sensor

Teledyne e2v (UK) Ltd.
Teledyne e2v's Onyx family of image sensors are designed for the most demanding outdoor camera and industrial machine vision applications, where illumination budgets are restricted or where high-speed inspection is required. Teledyne e2v's new Onyx EV76C664 is a 1.3 million pixel CMOS image sensor for low-light applications.

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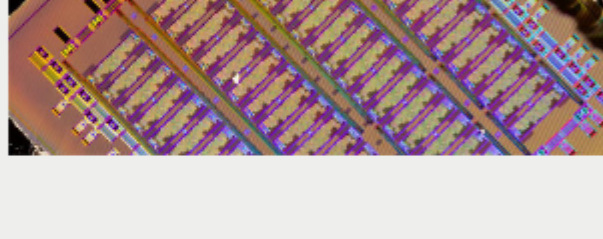
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In Case You Missed It

New Platform Brings Photonics to Bulk Silicon Microelectronic Chips

A new platform and fabrication method has been developed for making silicon chips that can communicate with photons. The technology, which is no more expensive than current chip technology, could alleviate bottlenecks in current devices by speeding data transfer and reducing energy consumption by orders of magnitude.



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Capasso Group Develops Flat Lenses with Same Technology Used to Make Chips

Members of the Capasso Group at the Harvard John A. Paulson School of Engineering and Applied Sciences (SEAS) have developed a single flat lens that can focus the entire visible spectrum of light in the same spot and in high resolution.

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Continuously Variable Bandpass Filters Aid Optics and HSI

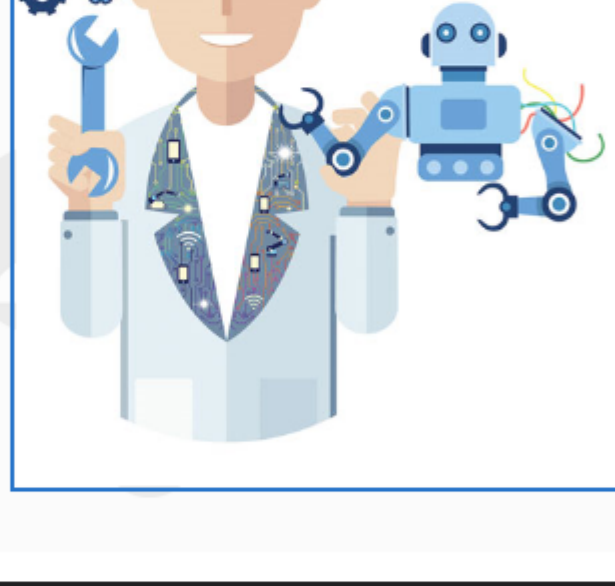
Continuously variable bandpass filters offer an alternative approach for hyperspectral imaging techniques, making it more appealing to volume markets.

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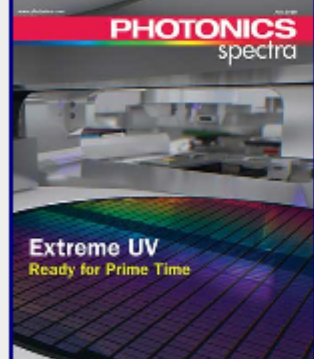
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