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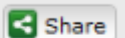
July 2015

## CCD Sensors Remain Competitive with Broadening Appeal



Over the last few decades charge-coupled device (CCD) sensors have been slowly overtaken by CMOS sensors for applications ranging from mobile phone cameras to surveillance. But CCDs still have a lot to offer, particularly where extreme sensitivity and long exposures are crucial. And if their price continues to drop without compromising performance, CCD technology will be an appealing option for broader mid-market applications.

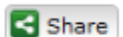
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## Space-Based Optics Are Taking Off

Exciting times are on the horizon for space optics as the market evolves, customer needs change and the demand for products intensifies. A mixture of advancements in optical technology, more efficient manufacturing processes, and innovative scientists and ideas are propelling the optics industry to new heights. And the demand for innovative optics technologies is growing.

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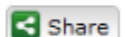


## Lasers for Lithography



The interaction between light source and process places demands on laser performance and parameters in applications such as semiconductor photolithography, maskless lithography and 3-D printing.

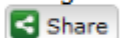
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## Simulation Software for Camera Selection

It can be difficult to determine the best imaging system to meet various needs, as laboratory conditions and suitable image quality requirements are among numerous factors to consider. Simulation software is an option worth exploring.

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## Featured Products



### Laser Debris Shields

United Lens Company Inc. As we approach our 100th Anniversary as a leader in the Custom Optics Industry, we at ULC continue our legacy of responding to our customers' needs by introducing Debris Shields for high energy laser applications.

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### Fiber Optic LED Light Source

Ushio America, Inc. The Midori™ ULB-35i LED light source series combines state-of-the-art, solid-state illumination technology with Ushio's distinctive optical design to create a compact and lightweight fiber-optic lightbox with very high output efficacy that is ideal for industrial applications where space is a premium.

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### Smart Spectrometer

Allied Scientific Pro Measure any light, anywhere. CCT, CRI, CQS, R1-R15, Foot Candle, 380nm to 780nm, Spectrum, 8nm resolution, CIE1931-CIE1976, LUX, PPF & YPF (Agricultural), TLCI Index & Chart, multiple & continuous mode & much more!

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### Optical Mounts

Siskiyou Corporation A new series of optical mounts from Siskiyou Corp. enables high-resolution (4.5 arcsec) adjustment in two rotational axes with long-term stability in a format suited for space-constrained applications where mount accessibility is limited.

[More info >>](#)



### Sub-miniature Resonant Scanner

Electro-Optical Products Corp. The fixed frequency resonant optical scanner deflects a light beam with a continuous sinusoidal motion. The driver controls the mirror scan angle and provides a reference signal or a position output.

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### MicroMate 3:1 Zoom Ratio

Navitar Inc. The MicroMate was designed specifically to work with today's high resolution 4/3" sensor cameras.

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