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Highlights from the November 2013 issue of Photonics Spectra



Big Photonics Advances Build and Power Big Telescopes

For astronomers, bigger is better: In general, the scientific value of a telescope scales to the fourth power of its diameter. So, doubling the size boosts scientific worth 16 times assuming no limiting factors. Given that, good times loom. Thanks to photonics innovations and other advances, over the next decade three big telescope projects should come on line. Their primary mirrors range from 25 to nearly 40 m. The two largest current telescopes are about 10 m.

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PHOTONICS buyers' guide

From obliterating asteroids to nudging space trash, lasers in space are becoming every bit as futuristic as they sound. Lasers in space have long been a science-fiction writer's delight, but with current projects such as LightForce and DE-STAR on the horizon, reality could become every bit as fantastic as fiction.

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CCD Sensors Tailored to Space Applications

Space Lasers Set to Protect Earth, Project Data

Designing image sensors for the ESA's Euclid mission demonstrates the importance of customization for specialty uses and harsh environments. Adapting commercial electronic parts for space applications usually consists of little more than the addition of screening tests and environmental qualifications. But customizing image sensors from the design through to manufacture can optimize the performance of these devices for both the application and the space environment.

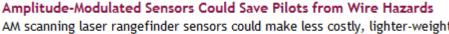
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AM scanning laser rangefinder sensors could make less costly, lighter-weight systems for helicopter-mounted wire-warning systems. Wires represent a significant hazard for low-flying helicopters: Collisions with unobserved wire obstacles can result in helicopter or wire damage, or even injuries or fatalities. Because wires are long, thin objects, they may be difficult to detect against various backgrounds.

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Dual- and Triple-Band AR Coatings Enhance IR Systems

Silica-Based Fiber Boosts Broad-Spectrum Spectroscopy

Dual-band IR camera systems allow the 3- to 5-µm and 8- to 12-µm spectral regions to be viewed and compared. They also improve visibility at sunrise or sunset, and help distinguish between targets and decoys. As dual-band third-generation FLIR systems progress, new coatings help these systems perform better. This article will show theoretical and measured designs for ZnSe, ZnS, Ge and IG-6 substrates as well as demonstrated triple-band AR coatings with additional transmittance at 1.06 µm.

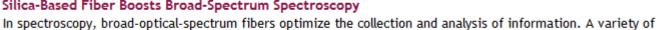
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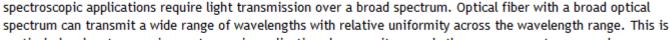


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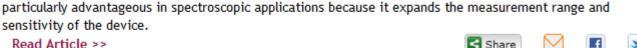






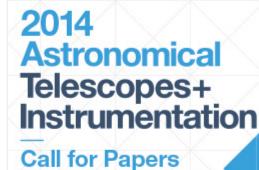












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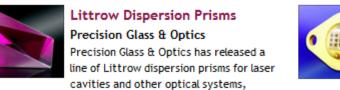
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Highland Technology, Inc. The T165 Laser Pulser incorporates an edge triggered pulse generator with 150 picoseconds nominal rise and fall times into a butterfly packaged laser.

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OD-669-850 IR LED Illuminator Opto Diode Corporation

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