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Multiview 3-D Photography Simplified

Focii, a device developed by the Camera Culture Group at MIT's Media Lab, can produce a full 20-megapixel multiview 3-D image from a single exposure of a 20-MP sensor. It could rival current light-field cameras, which trade a good deal of resolution for extra-angle information and that cost nearly \$400. MIT's system relies on a small rectangle of plastic film printed with a unique checkerboard pattern and inserted beneath the lens of an ordinary digital single-lens-reflex camera. Software does the rest.

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Optics and Photonics Pioneer James Gordon Dies

James P. Gordon, the co-inventor of laser predecessor the maser and who made many seminal contributions to optics and quantum electronics, died on June 21. He was 85.

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Luxexcel Teams with Photonics Institute on 3-D Printing

Luxexcel and the Institute of Photonics at the University of Eastern Finland partnered to develop an improved platform for photonic 3-D printing. The partnership will leverage the optical rapid prototyping company's Printoptical manufacturing process, a method for printing optical-quality components that do not require post-processing.

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PCO Tech has released the new pco.edge sCMOS brochure which shows and explains in detail all features and benefits of the breathtaking scientific CMOS image sensor technology in our pco.edge camera.

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Tabletop Device Accelerates Electrons to 2 GeV

The acceleration of electrons to a speed of 2 giga-electron volts (GeV) over a distance of about 1 inch was accomplished in a tabletop setup at the University of Texas at Austin. Until now, achieving that level of x-ray energy has required a multimillion-dollar accelerator nearly 200 m long.

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SERS, Nanoprobes Seek to Detect Infections Early

Nanoprobes used in conjunction with surface-enhanced Raman scattering (SERS) can be used to reveal a specific molecular marker's optical fingerprint. The work at Duke University is a proof-of-principle approach to using light to detect infections before patients show symptoms.

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Laser Cutting Market to Hit \$3.77B in 2018

The value of the laser cutting, drilling, marking and engraving market was \$2.08 billion in 2012 but will reach nearly \$4 billion in 2018, according to MarketsandMarkets.

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On this edition of the industry's **only weekly newscast**: holograms are enabled by a \$10 optical chip, Raman spectroscopy and nanoprobes seek to detect infections early, multiview 3-D photography is simplified, and a microphone listens with light. Hosted by Photonics Media's Laura Marshall and Ashley Rice.

Holograms Enabled by \$10 Optical Chip

An optical chip built by an MIT graduate student for \$10 could be a "game changer" for holography, enhancing the resolution of conventional 2-D displays and enabling color holographic videos suitable for 3-D television.

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New Research Facilities to Support EU Solar Tech

New facilities were inaugurated at the European Solar Test Installation (ESTI) in Ispra to enable the reference laboratory to assess new and improved photovoltaic devices and to help develop international standards.

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Webb Space Telescope's 'Backbone' Completed

Manufacture of the "backbone" of NASA's James Webb Space Telescope, a backplane support frame (BSF) that is the largest optically stable cryostructure ever built, is completed and ready for integration, project contractors Northrop Grumman Corp. and ATK reported.

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