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Imaging

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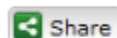


Thursday, October 23, 2014

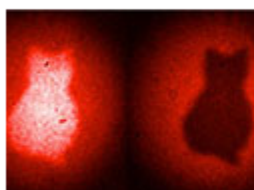
Compressive Imaging Unscrambles Light

A single-pixel optical system can image tissue deeper than a millimeter under the skin without the scattering and image scrambling that can stymie ultrasound and x-ray techniques.

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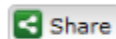


Quantum Imaging Method Doesn't Need Light to Touch Object



A new quantum imaging technique based on induced coherence without induced emission can acquire an image of an object without ever detecting the light used to illuminate it.

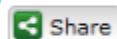
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Advanced Imaging System Superior to Human Eye

A new imaging system can gather significantly more color information than the human eye and conventional cameras, potentially enabling assisted-vehicle-driving systems, better identification of counterfeit bills and more accurate medical imaging.

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pco. presents another brand new sCMOS model with deep cooling

PCO Group [Request Info](#)

The PCO group, pioneer in sCMOS image sensor technology, expands their scientific CMOS family pco.edge by an another model. The brand new member with deep cooling is called **pco.edge gold 4.2** and convinces with outstanding features.

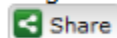
The new pco.edge gold 4.2 offers long exposure times and best performance data combined with highest frame rates.

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Imaging Digs Deep to Improve Crops

Researchers used digital photography to take detailed images of mature plant root systems in the field, then analyzed the images in the lab to assess more than 30 parameters, including the diameter of tap roots, root density and detailed measuring of lateral roots.

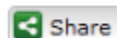
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Light Used to Measure Surface Vibrations

A technique that passively monitors light intensity modulation is able to measure the physical and optical properties of a vibrating surface.

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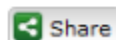


Imagers, Spectrometers to Travel with Next Mars Rover



NASA selected seven instruments from among 58 proposals. The total development cost of the selected technologies is estimated at \$130 million.

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