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# Thursday, May 1, 2014

### LED System Simulates Sunlight Indoors

**Brain Wave Control Could Improve Vision** 

activity while at rest, can influence vision.



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cost solar cells.

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It is now possible to reap the benefits of sunlight without windows, or even going outside. In a project funded by the European Commission Horizon 2020 program, CoeLux Srl has developed CoeLux, a new system that simulates sunlight indoors using LEDs, an optical system and nanostructures.

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Katie Walker, a Product Line Engineer at Edmund Optics, showcases Edmund Optics' Optical Cage System and how it can be used to build a digital video fluorescence microscope. The Optical Cage System is a collection of optomechanical components that can be used to easily construct complicated optical systems.





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smartphones to make an inexpensive microscope.



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In this edition of the industry's premier weekly newscast: An optogenetic switch turns neurons off, new lenses turn phones into dermascopes, nanowires absorb and emit light, and plasmonic probes quantify breast cancer gene segments.

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Optogenetic Switch Now Works Both Ways: On and Off

A new microscopy technique combining confocal and two-photon excitation microscopy has given researchers insight into how the nervous system responds to disease and injury at the mitochondrial level.

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# WHITE PAPER



Characterization to the Extremes: Terahertz materials characterization at cryogenic temperatures and high magnetic fields

Lake Shore Cryotronics, Inc.

In continuing pursuit of improved performance, higher processing speed, and more compact packaging, researchers spend considerable time identifying and characterizing novel and previously unexplored materials. Recently, the terahertz frequency range has emerged as a new frontier for materials science, helping to map out this unknown territory. This paper explores how THz energy can be used to gain insights into material properties, particularly under variable or extreme temperatures and magnetic fields.

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