



Holography + Optogenetics = Bionic Vision? Maybe Someday

Computer-generated holography could be used in conjunction with optogenetics on damaged retinal nerve cells to artificially stimulate them and may even lead to a new strategy for bionic vision restoration, say researchers at Technion-Israel Institute of Technology.

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IR Holography Helps Firefighters Blinded By the Light

Firefighters may have a new tool when it comes to finding a person hidden in a thick veil of smoke and intense flames: lensless infrared digital holography. The new imaging method can "see" through flames, capturing potentially lifesaving details.

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Disruptive He-Cd Laser Replacement with Pitch Perfect Engineering

Until recently 442nm laser generation was provided exclusively by large, costly and cumbersome Helium-Cadmium gas lasers. He-Cd lasers provide good quality, low noise, single-frequency laser light but present considerable challenges in their design and prove to be difficult to maintain, primarily in laser beam pointing stability. These issues have now been solved with the launch of the world's only 442nm solid state He-Cd laser alternative by Power Technology, Inc.

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Nanotubes Project Holograms

Holograms can be generated by harnessing the conductive and light-scattering qualities of carbon nanotubes, a development that could lead to crisper projections with a larger field of view.

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3-D Holography Peers Under Mummy's Shroud

Great details of an ancient mummy, including jewelry adorning its inner shroud, were revealed in color using 3-D holograms.

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HoloHands Turns Laser Tweezing into a Game

Through the system called HoloHands, scientists can use the motion sensor in Microsoft Xbox Kinect's video game platform to control holographic optical tweezers, allowing them to trap, move and rotate microscopic particles simply by waving a hand. That's important, as finding a control interface for optical tweezers has long proved problematic. And it's fun, too.

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