Wednesday, December 23, 2020

This Week in PHOTONICS

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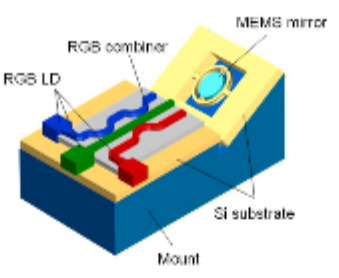
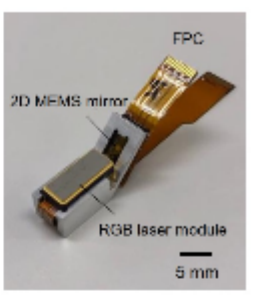
.: Top Stories

Compact RGB Scanning Projector Developed for Wearable Displays and Smart Glasses





Researchers from the University of Fukui, in collaboration with SEIREN KST Corp., a Japanese silicon manufacturer, are preparing to commercialize an image projector for eyewear displays. The team succeeded in creating an optical engine by integrating a compact RGB module measuring 8 × 4 × 3 mm with a microelectromechanical system (MEMS) mirror.

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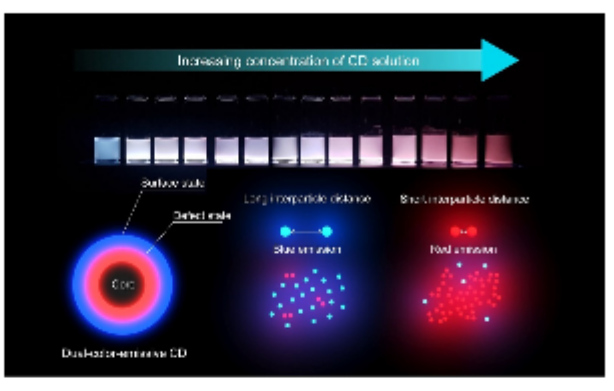
Multiple Wavelengths of Light Controlled with a Single Source



Researchers from the Korea Advanced Institute of Science and Technology (KAIST) have synthesized a collection of nanoparticles known as carbon dots, capable of emitting multiple wavelengths of light from a single particle.

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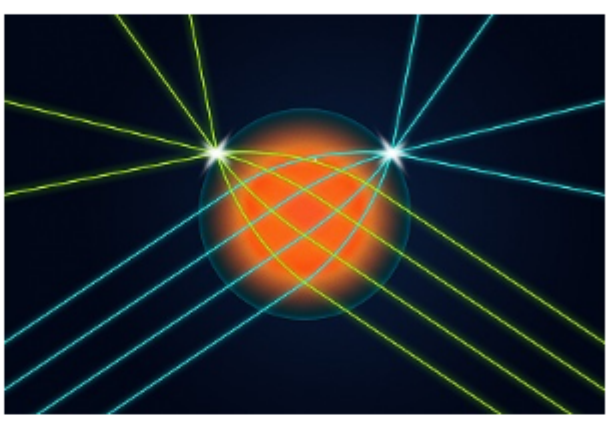
3D-Printed Lens Design Improves Data Transfer Possibilities



Researchers from the University of Illinois have developed a spherical lens capable of allowing incoming light — from any direction — to be focused on the lens's surface opposite the input direction into a very small spot. The lens is one of multiple microlens designs researchers have introduced, each of which is 3D printed and features adjustable refractive indices.

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Light Pipes and Homogenizers

IRD Glass

IRD Glass specializes in high precision light homogenizers and light pipes. Light pipes and homogenizers are designed to smooth out the irregularities inherent in a raw non-uniform beam of light to create a more uniform and evenly distributed beam of output energy.

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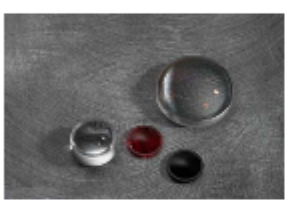

Molded Aspheric Polymer Lenses

Fresnel Technologies Inc.

Fresnel Technologies designs and manufactures orders large and small, from millions of parts to a single prototype. Our diamond-turning machines allow micro- and nanomachining of metal and polymer optics. We produce silicone lenses, microlens arrays, and AR/VR lenses.

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.: Upcoming Webinars

Virtual Reality Optics: Present and Future

Thu, Jan 14, 2021 10:00 AM - 11:00 AM EST

This webinar with Pablo Benitez, Ph.D., professor at the Technical University of Madrid, will cover present solutions for VR optics in the market to the most advanced proposals, including an introduction to additional challenges to be tackled in next generation designs.

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