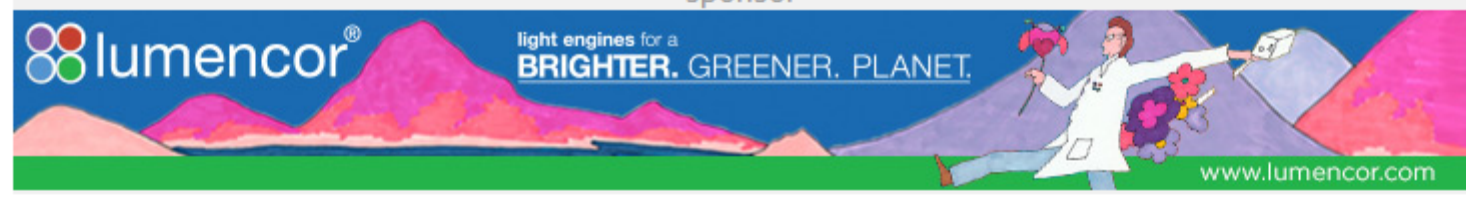


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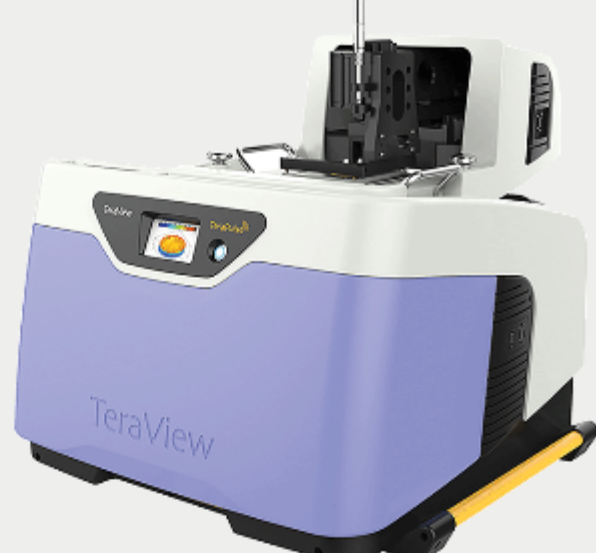


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Terahertz 3D Spectroscopy Boosts Imaging Applications

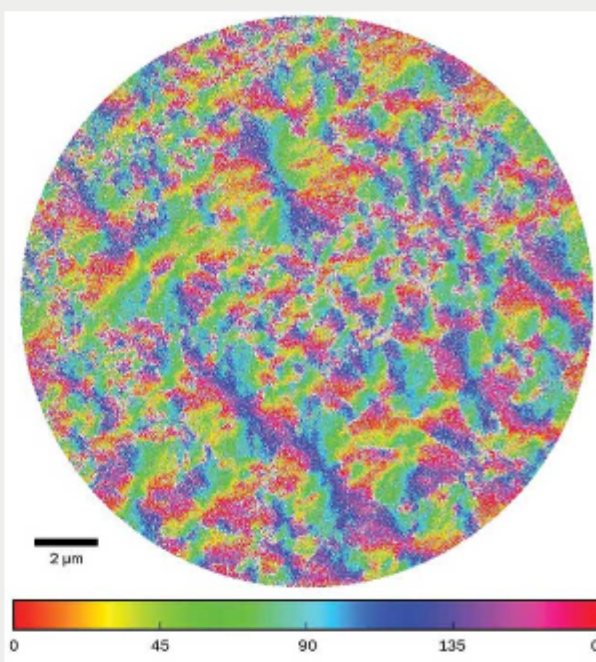
Terahertz imaging is a promising technique for noncontact, non-invasive, nonionizing 3D spectroscopy. Terahertz rays, located between microwave and IR on the electromagnetic spectrum from approximately 0.06 THz (60 GHz) to 10 THz, are capable of penetrating nonconducting materials and revealing information from within samples. Measurements use the time-domain profile information from a terahertz pulse to produce the 3D images.



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Scientific Lasers Deliver Ease of Use, Greater Reliability

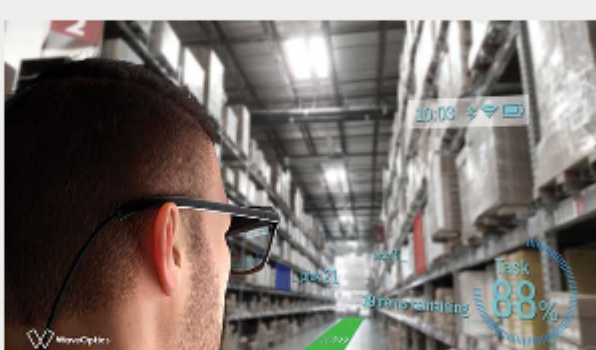
Ultrafast lasers are the dominant laser source for scientific applications. Two key technical trends are emerging. The first development is the emergence of ytterbium fiber as a reliable alternative gain medium to the traditionally employed Ti:sapphire. An equally important trend is greater reliability and ease of use. The demand for this has risen because researchers are realizing that data throughput is an important metric for laser performance. Laser manufacturers have responded by adopting some of the long-used methods from their industrial products.



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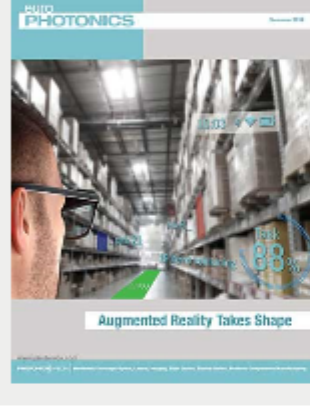
Augmented Reality Takes Shape

The world of virtual reality (VR) has made a splash in the consumer market in recent years with its fully occluded VR headsets. But an even bigger trend with more dollars invested in the past year is augmented reality (AR). Unlike the immersive experience of VR, AR incorporates wearable headgear to overlay information on the user's field of view, adding layers of virtual content to the real world.



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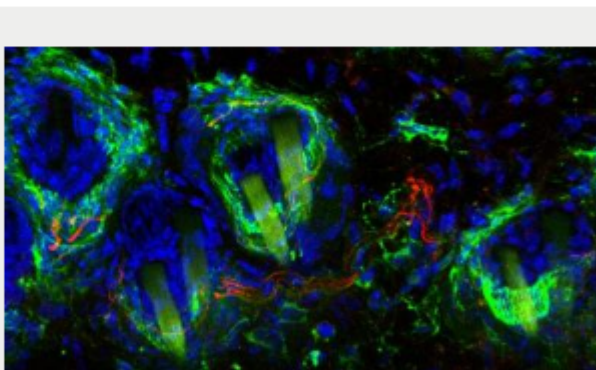
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More News From Europe

Managing Chronic Pain with Light

Researchers developed a light-sensitive chemical that selectively binds to the type of nerve cells in the skin that cause severe pain in neuropathic patients. By injecting the affected skin area with the chemical and then illuminating it with NIR light, the targeted nerve cells retract from the skin's surface, leading to pain relief.



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Semi Material Used for Secure Quantum Communications

Use of single photons as carriers for quantum bits could enable reliable security during quantum data transmission. Researchers have found that an existing material could be used to build a system for the reliable generation of single photons under ambient conditions.

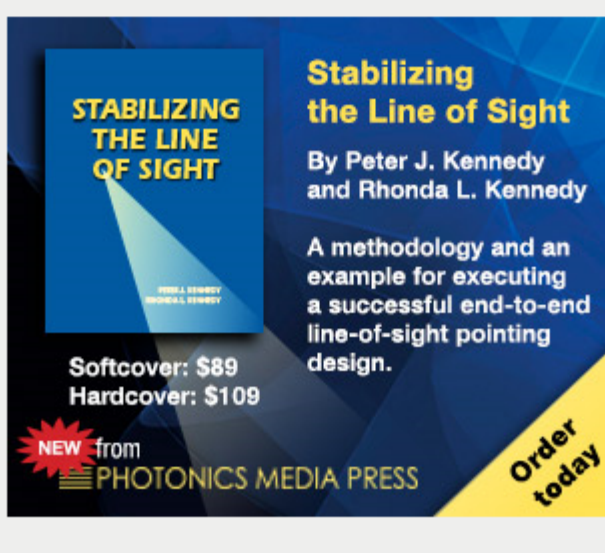
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New Technology for Structuring Quartz Glass Like a Polymer

A new technology could make it possible to produce and use high-quality glass materials in place of polymers. The innovation, known as Glassomer, could be used in optical, photonic, medical, and industrial applications.

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