





.: Top Stories

Terminal for Use in Space

Diagnostics

Imaging Researchers at Duke University developed an optical coherence

Widened 3D Field of View Enhances OCT Diagnostic

tomography (OCT) technique that delivers high contrast and high resolution over a wide, 3D field of view. The enhanced OCT technique, called 3D optical coherence refraction tomography (3D OCRT), produces highly detailed images that reveal features difficult to observe with traditional OCT. Read Article



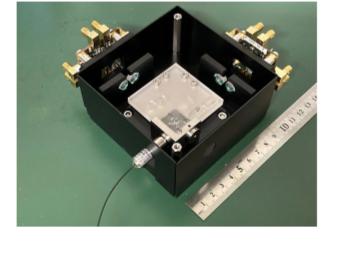
Mitsubishi Electric Corp. developed a prototype of an optical receiver

Mitsubishi Electric Develops Laser Communications

for use in laser communication terminals (LCTs). The company claimed that the prototype is the first to integrate space optical communication using laser beams and a function to detect the direction of received beams in the 1.5-µm band, a general purpose band used for terrestrial

optical fiber communications and other applications.

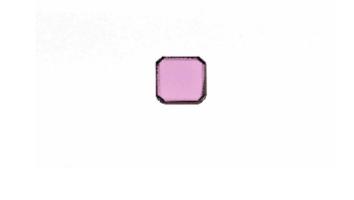
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Researchers from the Fraunhofer Institute for Applied Solid State Physics (Fraunhofer IAF) demonstrated the principle of laser threshold

Fraunhofer Tests Lasers for Magnetic Field-Based

magnetometry for the first time, they said. The Fraunhofer team is working to develop diamond-based laser threshold magnetometry — a practice that enables measurement of even the smallest magnetic fields. The application can be used in medical care. Read Article



Blue 450 nm Laser Diode

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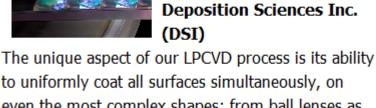


PhotonTec Berlin GmbH PhotonTec Berlin extends the

wavelength of high-power

laser diodes to blue 450 nm. The modules come with hermetically sealed packages in compact size

with integrated thermistor, photodiode, and optional red aiming. The output power reaches up to 120 W from 200 µm or 400 µm optical fiber. Visit Website Request Info

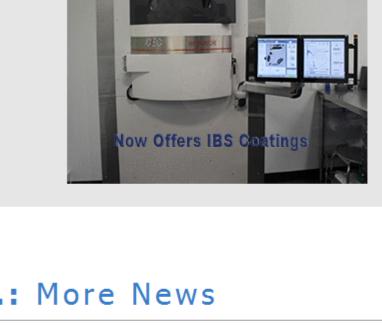


(DSI)

AR Conformal Coatings

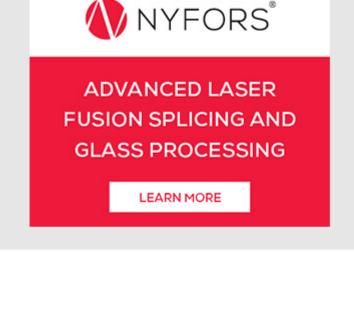
to uniformly coat all surfaces simultaneously, on even the most complex shapes; from ball lenses as

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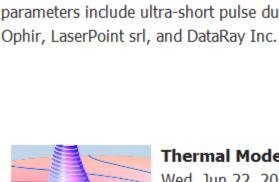


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processes, they can also cause unexpected damage to the measurement tools used to keep the process stable. These parameters include ultra-short pulse duration, high repetition rates, short wavelengths, and many others. Sponsored by



Thermal Modeling of Lasers in Manufacturing Processes Wed, Jun 22, 2022 2:00 PM - 3:00 PM EDT Walter Frei shares an overview of laser thermal modeling and presents a demonstration of the software in action. Laser modeling in manufacturing processes commonly views the laser as a spatially or volumetrically distributed heat source that moves and reorients over time. The COMSOL

Multiphysics® software provides a computational modeling platform that can easily model such heat sources. In addition to the modeling of heating profiles over time, this software is able to model phase change, ablation, and irreversible transformations. The applications of these different modeling techniques include precision fabrication processes, medical treatments, and additive manufacturing. Presented by COMSOL, Inc.

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