

**LASER World of Photonics 2022**



**LASER World of PHOTONICS Bets Big on Quantum**

LASER World of PHOTONICS returns this year to spotlight the latest innovations in photonics systems, components, and applications, with exhibition sectors dedicated to Illumination and Energy, Biophotonics and Medical Engineering, Manufacturing Optics, Quality Control, Laser Manufacturing, and Optoelectronics. The international trade fair will run April 26-29 in Munich and will feature a new component called the World of QUANTUM, which will debut in its own exhibition hall. Photo courtesy of Messe München GmbH.

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sponsor

**70 W 905 nm multi-junction VCSEL array (M51-100)**  
Automotive-qualified solution for short- to long-range LiDAR systems

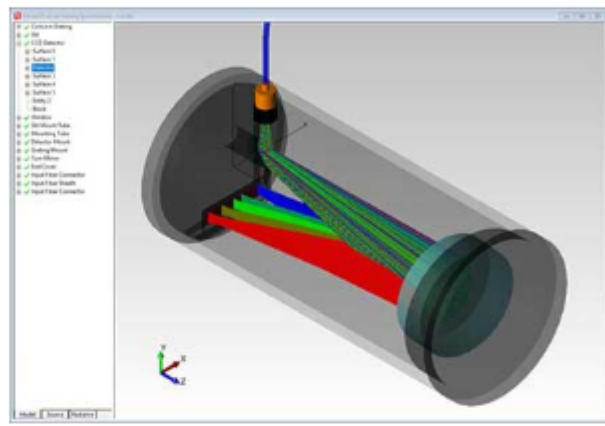
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**.: Featured Exhibitors**

**TracePro Software**

**From: Lambda Research Corp.**

Lambda Research Corporation is proud to announce the latest release of its flagship TracePro software, TracePro 2022. TracePro is the go-to product for optical and analysis, including illumination, stray light, displays, light guides, lighting, and many other applications. TracePro 2022 features a new CAD engine, the Kosmos<sup>®</sup> KCM<sup>®</sup> geometry engine made by Kubotek3D<sup>®</sup>. TracePro 2022 also includes numerous CAD translators and importers at no additional cost. An enhanced Lens Element includes many new surface and aperture types, including Q-type aspheres and Asymmetric Zernike surfaces. A new Surface Builder allows users to build any type of source using a Wizard interface and step-by-step data entry.



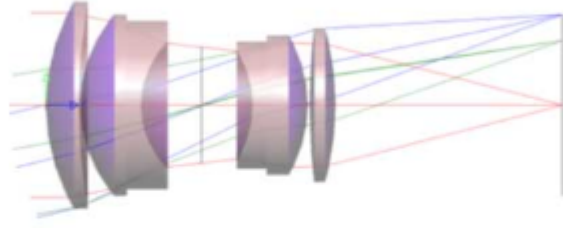
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**CODE V Streamlines Optical Design**

**From: Synopsys Inc., Optical Solutions Group**

Improved interoperability features between CODE V<sup>®</sup> and LightTools<sup>®</sup> enable designers to easily simulate optical systems that contain imaging and non-imaging components, thereby reducing product development time. Designers are able to leverage the industry-leading design, optimization, and tolerancing capabilities of CODE V and LightTools to develop a broad range of optical systems with unparalleled speed and accuracy, from augmented reality headsets and head-up displays, to smartphone optics and electro-optical imaging systems.



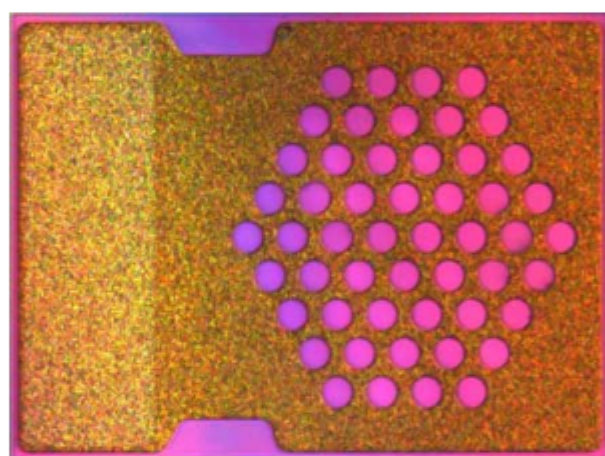
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**70 W 905 nm Multi-Junction VCSEL Array**

**From: Lumentum Operations LLC**

The M51-100, a 70 W 905 nm VCSEL array, is one of the Lumentum next-generation solutions for advanced automotive and industrial 3D sensing applications. With its extremely small size and high power-density, the M51-100 is well-suited for short- to long-range LiDAR solutions. Automotive-qualified, this versatile product can easily upgrade existing mechanical LiDAR solutions, or be configured into customized illumination sources for addressable, solid-state electronic scanning LiDAR.



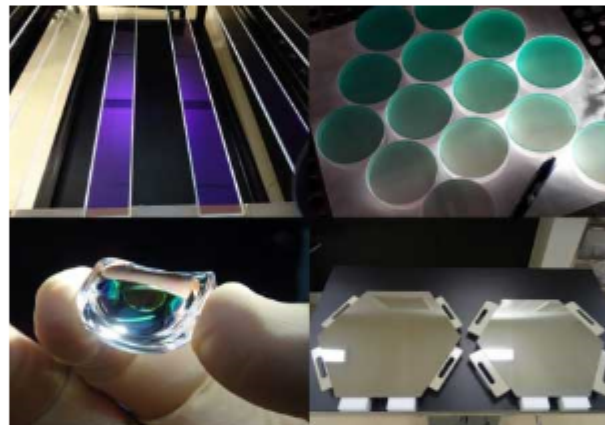
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**Optical Coatings for Large Volume**

**From: CILAS**

CILAS proposes optical components for prototypes to large volumes up to 2 meters dimensions with in-house manufacturing of metallic coatings, protective coatings, black coatings, and dielectric coatings, all qualified for severe environments from typical laser applications at 1064 nm to space programs. An experienced team is at your service from design to industrial production through project management, according to ISO standards. Coatings catalog and specific designs are available upon request.



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**BLINK HS-EHN: Enhanced Sensitivity**

**From: LaserPoint srl**

BLINK HS-EHN is a measurement system based on BLINK High-Speed thermal sensor and HSM meter specifically developed for ultrafast lasers with low energy per pulse, down to 1 μJ and high repetition rate up to MHz range. A specific calibration is performed using high gain amplification for increasing signal to noise ratio and measurement accuracy. The instrument comes with Giotto Software, a user-friendly GUI for working at different gain levels.



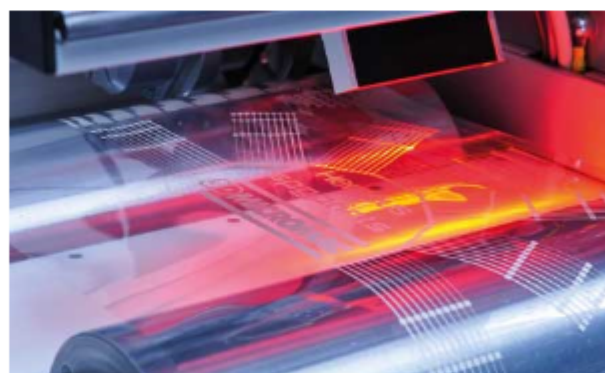
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**Roll-to-Roll Laser Processing**

**From: 3D-Micromac AG**

3D-Micromac's highly versatile microFLEX laser system is the all-in-one solution for mass production and manufacturing of flexible thin films — enabling innovative applications and ground-breaking products for photovoltaics, electronics, medical devices, displays, and semiconductors. It achieves new dimensions in terms of precision, quality, and process efficiency for the production of your flexible devices. Find out more at Laser World of Photonics (booth A6.139)!



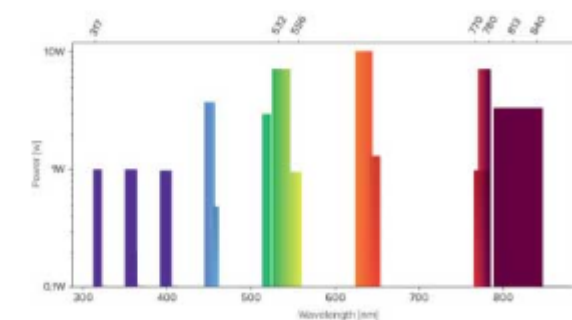
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**Unparalleled Quantum Performance**

**From: NKT Photonics A/S**

Looking for lasers for your work with rubidium, strontium, barium, or ytterbium? Our new Koheras HARMONIK frequency-converted fiber lasers have got you covered! They give you access to a wide range of new wavelengths, up to 10 W of power, low noise, and a linewidth below 200 Hz. Koheras lasers have been used in industrial applications for decades. Now, they are ready to assist you in your quantum research.



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**1535 nm Erbium Glass Lasers**

**From: Frankfurt Laser Company**

The new FERT-1535-XXXμJ-Q is a series of "eye-safe" 1535 nm diode-pumped passively Q-switched Erbium glass lasers with pulse energies between 100 to 500 μJ and high peak powers. The output beam has a diameter of 0.2 mm with divergence ≤10 mrad. The operating temperature range is very wide and covers a range from -45 to +65 °C. With dimensions of just 30 mm x 18 mm x 7 mm to 36 mm x 18 mm x 12 mm (L x W x H) they are very compact. These features and the high reliability make them the optimal laser source for applications like laser range-finding, laser imaging, and surveying equipment.



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