



## LASER World of Photonics 2019 – Munich Germany

June 24-27, 2019

An advance look at the products, trends, and technologies being presented.



### World of Photonics Congress to Bridge Theory and Practice

The 24th World of Photonics Congress is set to take place in Munich on June 23-27. Featuring seven scientific conferences under one roof and coinciding with the LASER World of PHOTONICS, highlights will include plenaries from notables such as Gérard Mourou, the founding director of the Center for Ultrafast Optical Science at the University of Michigan and a winner of the Nobel Prize in physics; Karsten Danzmann, a director at Max Planck Institute for Gravitational Physics; and Michal Lipson, a professor at Columbia University and a pioneer in the field of silicon photonics.

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Temperature Testing for Automotive Lenses with OpTest® Thermal Module

- Characterizes thermal effects on the lens
- Image quality metrics over temp at the lens level

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## Featured Exhibitors

### Meridian® FLEX Camera Testing

From: **Optikos Corporation**

Easily configure small camera testing over a range of object distances with a single Meridian® Focusing Target Projector (FTP), and over a sweep of field angles using our new Meridian® FLEX platform. Test engineers evaluating prototype camera performance, or production managers looking to test moderate volumes now have a solution in a highly configurable platform — ideal for short focal length, small aperture cameras commonly found in cell phones, web cams, and automotive applications.



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### POLSNAP Compact Stokes Polarimeter

From: **Hinds Instruments Inc.**

Trust the polarization experts from Hinds Instruments to supply you with quantitative polarization data for your free space or fiber coupled VIS and NIR light sources with our PolSNAP™ Compact Stokes Polarimeter. This easy to use single module is a plug and play system that comes ready with real time interactive software reporting Stokes Vector values and degree of polarization along with a visual Polarization Ellipse and Poincare Sphere.



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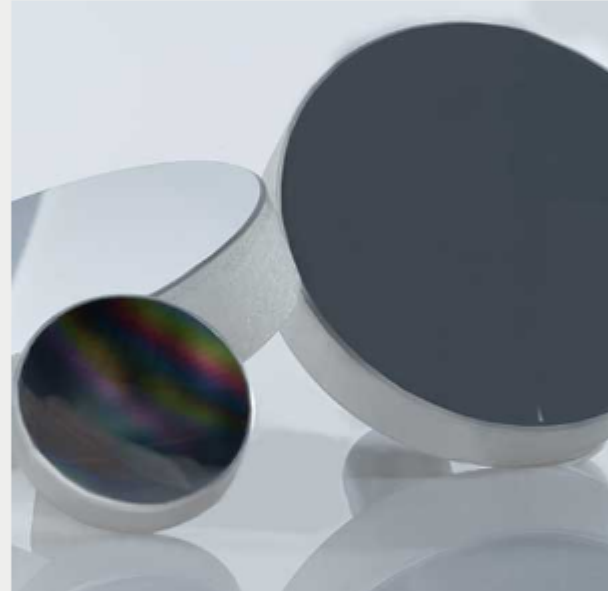
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### Aspherics, Retroreflectors & Gratings

From: **Spectrum Scientific Inc., SSI Optics**

Spectrum Scientific, Inc. (SSI) manufactures high volume hollow retroreflectors, aspheric and freeform mirrors, and plane and concave blazed holographic gratings using optical replication allowing us to supply high fidelity, high specification precision optics at a lower cost compared to traditional manufacturing. Our freeform, OAP, and ellipsoid mirrors can be supplied with surface figures down to  $\lambda/10$  or better, and our blazed gratings offer high UV efficiency with ultra-low stray light.



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### Glass Processing and Automation

From: **NYFORS Teknologi AB**

The NYFORS SMARTSPLICER is a CO2 laser glass processing system designed for the production of high power and sensitive photonics components. It offers contamination free splicing and tapering, bundling, and many other glass shaping processes. NYFORS provides automated high precision solutions for fibre preparation such as stripping, cleaving, recoating, cleave quality inspection, proof testing, and analyzing. We also offer custom sub-micron machine vision alignment systems for optical component manufacturing.



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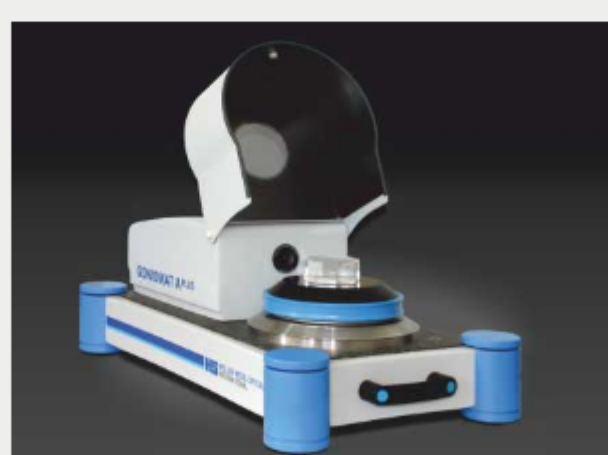
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### All for Small Angle Measurement

From: **Moeller-Wedel Optical GmbH**

MÖLLER-WEDEL OPTICAL, the leading manufacturer of precision angle measuring instruments, is announcing the fully automatic goniometers GONIOMAT A5 and GONIOMAT Aplus for high-precision angle measurement on optical prisms, polygon mirrors, and gauge blocks. Furthermore, MÖLLER-WEDEL OPTICAL will present the Interferometer line VI-direct, the ELCOMAT line of Electronic Autocollimators, Optical Micrometers, and their applications, Focometer MELOS 530, Lens Centration measurement station CIFOS, and inform about DAKS calibration service, provided by the company.



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### Integrating Sphere Detectors

From: **Newport Corporation**

Integrating sphere detectors have a photodiode detector mounted on integrating spheres with various sizes and is calibrated as a system, compensating for the attenuation caused by the sphere. The input beam is diffused inside the sphere so that the measurements are less sensitive to errors caused by detector position and angle sensitivity, overfilling, and saturation, or the divergence angle and angle of the input beam.



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