Tuesday, March 19, 2024

PHOTONICS SHOWCASE

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SNSPD-Enhanced QKD
From: ID Quantique

Achieve the highest key rates and furthest single-span QKD with the unparalleled efficiency, noise performance, and speed of SNSPDs. The Clavis XGR is the backbone of your quantum network, designed for education and research: compact and integrable with access to raw key data and a comprehensive software suite. Pair with IDQ's robust, reliable, turnkey ID281 SNSPD system for state-of-the-art performance.

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Liquid Light Guides
From: Lumatec GmbH

Liquid Light Guides are flexible, unbreakable, and very durable, and they have significantly better transmission, more homogeneous illumination, and a larger aperture than fiber bundles at lower costs! They are the perfect solutions for applications that demand uniform, high-intensity light. We offer four different series designed for diverse spectra ranging from ultraviolet to infrared and a broad selection of end fittings.

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872 Series Laser Wavelength Meter
From: Bristol Instruments Inc.

The 872 Series High-Resolution Laser Wavelength Meter is ideal for the frequency stabilization of lasers. This system offers a frequency resolution better than 300 kHz at 300,000 GHz, which results in exceptional sensitivity to wavelength deviations. With a built-in PID controller and 1 kHz sustained measurement rate, the 872 system is well suited to precisely stabilize lasers used for applications such as atomic cooling and trapping.

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Diffuse Reflection Light Source
From: Hamamatsu Corporation

The L16462-01 light source integrates lamps and a bundled optical fiber and is designed for NIR spectrophotometry (up to 2500 nm). Its compact design allows for easy integration into production lines for food, pharmaceutical, and plastic products to automate the quality control process and improve production efficiency and quality control reliability. Enhance your realtime analysis.

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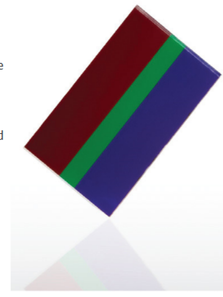
Custom Patterned Optics
From: Reynard Corporation



Custom photolithographic patterning service produces a wide range of complex patterned optics with geometries down to 5 µm. We provide multiple patterns stacking and gapless patterns. Metallic or dielectric materials are selected based on application's transparent, reflective, and/or conductive opto-electrical requirements. Applications include alignment test and reference patterns, heated windows, patterned filters, polka dot and wideband beamsplitters, reticles, barcodes, and more.

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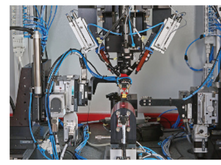
Active Alignment and Assembly
From: nanosystec GmbH



The NanoGlue, NanoWeld, and NanoSolder series are partly or fully automated production stations for demanding alignment and low-shift assembly procedures in opto-electronics industry. The linear axes work with 5-nm resolution, and angular rotation resolution is below 0.0005°. Long travel ranges facilitate the loading and unloading procedures while the modular architecture allows for fast and reliable customization.

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Fast. Custom. Lenses.
From: Rainbow Research Optics LLC

Rainbow Research Optics specializes in high-precision custom glass and IR lenses for critical applications in the defense, life science, and industrial markets. Full in-house capabilities including fabrication and VIS/ MWIR thin-film coatings for fast delivery and high levels for service. Materials include all glass, CaF2, Si, Ge, ZnSe, and ZnS. Made in U.S., ITAR registered, and ISO certified.

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C-Band Coherent Comb
From: Menhir Photonics AG

Introducing the MENHIR-1550 SERIES: the forefront of C-Band Coherent Combs, featuring 10GHz spacing and unmatched ultralow noise performance. Widely recognized in the optical telecom industry, it excels in diverse environments—from secure telecom links to advanced 5G and 6G testing, precision radar systems, or timing distribution. Elevate your optical infrastructure with MENHIR-1550 SERIES, and unlock new levels of efficiency, precision, and reliability.

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