





Picometer Resolution

Powered by Virtually Imaged Phase Arrays (VIPAs), LightMachinery's HyperFine spectrometers offer single shot, picometer resolution laser spectrum analysis.

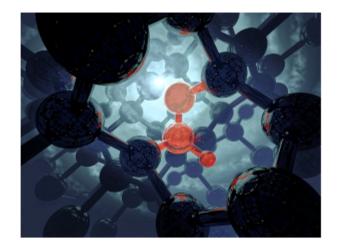


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Silicon Defect Proves a Photonic Keystone to Quantum Internet

A research team at Simon Fraser University has exploited a defect in silicon that it believes will enable the realization of massively scalable quantum computers — and the quantum internet that will connect them. The research provides proof of principle that T centers, a specific luminescent defect in silicon, can provide a photonic link between qubits.

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Contracts The Space Development Agency (SDA) awarded two prototype

Space Development Agency Awards Missile Tracking

agreements with a potential value of more than \$1.3 billion for the establishment of the Tranche 1 Tracking Layer, which aims to provide global indications, warning, tracking, and targeting of advanced missile threats, including hypersonic missile systems. Read Article



Connection Fraunhofer IZM researchers and partners have developed a laser

Direct Laser Welding Enables Adhesive-Free Fiber-to-Chip

welding technique to fix optical fibers to (PICs, removing the need for adhesive bonding. The technology was developed in response to proposed biophotonic sensing techniques involving miniaturized PICbased systems utilizing highly stable fiber connections. Read Article



CO2 Laser Glass-

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Processing

CO₂ laser glass-processing is designed to produce high-power and sensitive

NYFORS Teknologi AB

photonic components and complex structures. It guarantees contamination-free processing for fiber linear, 2D and gapless array splicing, ball lensing, end-capping, and many other challenging processes.

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Bristol Instruments Inc.

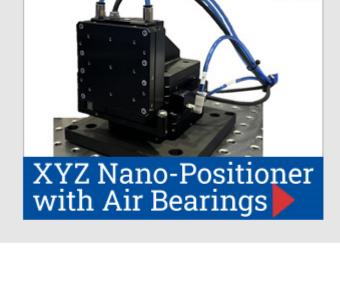
The 671 Series Laser

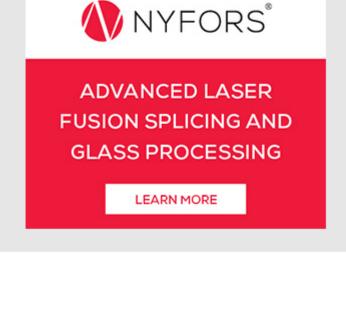
Wavelength Meter

671 Series Laser

Wavelength Meter uses a proven Michelson

interferometer-based design to measure the wavelengths of CW lasers to an accuracy as high as ±0.2 parts per million. Operation is available from 375 nm to 12 µm. Continuous calibration with a built-in wavelength standard guarantees the reliable accuracy that is required for the most meaningful experimental results. Visit Website Request Info





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Thu, Aug 11, 2022 1:00 PM - 2:00 PM EDT Pathology underlies every facet of healthcare, influencing more than 70% of all medical decisions.

Upcoming Webinars

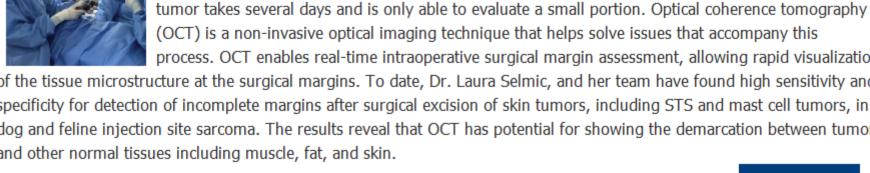


the centuries old practice of histopathology with a digitized process in a non-destructive fashion. The process is enabled by a machine learning-based virtual staining technology which allows fully digital

Virtual Biomarkers: An Emerging High-Throughput Research Tool

and virtual multiplex tissue platforms to substantively improve the quality and quantity of pathology samples. He will also discuss additional benefits of the technology. Register Now

Yair Rivenson Ph.D., the CEO and Co-Founder of Pictor Labs, demonstrates how it is possible to alter



process. OCT enables real-time intraoperative surgical margin assessment, allowing rapid visualization of the tissue microstructure at the surgical margins. To date, Dr. Laura Selmic, and her team have found high sensitivity and

Intraoperative OCT in Veterinary Surgery for Cancer

Tue, Aug 16, 2022 1:00 PM - 2:00 PM EDT

specificity for detection of incomplete margins after surgical excision of skin tumors, including STS and mast cell tumors, in dog and feline injection site sarcoma. The results reveal that OCT has potential for showing the demarcation between tumor and other normal tissues including muscle, fat, and skin. Register Now

Surgery is a common cancer treatment performed in dogs and cats but the process of assessing the



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