





Picometer Resolution

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

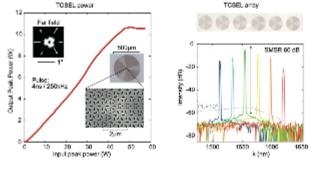


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Functionality Researchers at the Institute of Physics of the Chinese Academy of

Topological Cavity Widens Surface-Emitting Lasers'

Sciences have incorporated a topological cavity into the design of a surface-emitting laser to create a device that addresses the challenge of simultaneously increasing output power and beam quality in semiconductor lasers — a principal bottleneck. Read Article

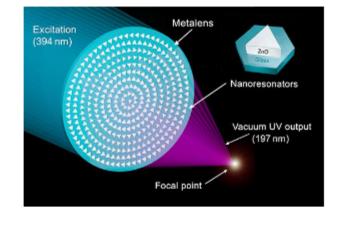


Manufacturing Rice University researchers have developed a metalens that transforms incoming longwave UV light (UVA) into a focused output of vacuum

VUV Metalens Cuts Complexities for Semiconductor

Crowned in Aachen

UV (VUV) radiation. VUV is used in semiconductor manufacturing, photochemistry, and materials science. Historically it has been costly to work with, in part because it is absorbed by almost all types of glass used to make conventional lenses. Read Article



PRIMES GmbH, a beam diagnostics company that develops measuring devices that enable reliable recording of beam parameters and ongoing

Winners of Innovation Award for Laser Technology

documentation of beam properties for quality assurance purposes, is the first-place winner of the 2022 Innovation Award for Laser Technology. PRIMES took the award for its ScanFieldMonitor (SFM). The measurement principle used in the SFM enables the measurement of laser beam parameters during the movement of a scanned vector. Read Article



HyperFine Brillouin

Spectrometer

871 Series Laser Wavelength Meter

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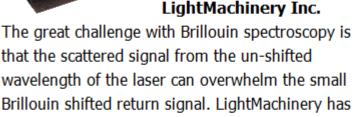
Bristol Instruments Inc. Bristol's popular 871 system

kHz, the fastest available. It also measures

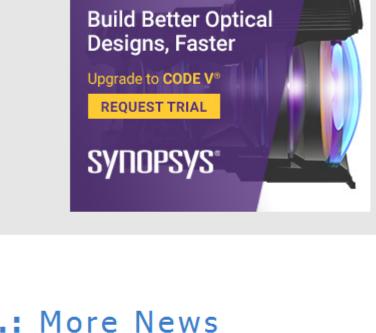
wavelength to an accuracy as high as ± 0.0001 nm. By combining proven Fizeau etalon technology with automatic calibration, the most reliable accuracy is ensured for the most meaningful experimental results. Visit Website Request Info

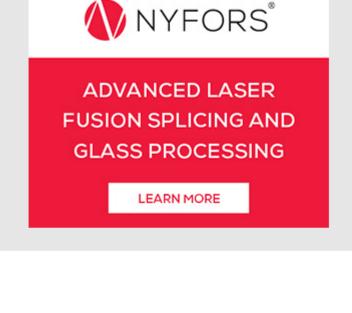
measures laser wavelength at a sustained rate of 1

Learn How To



combined its leading-edge HyperFine spectrometer with a very narrow band tunable filter to suppress the bright un-shifted laser frequency. Visit Website Request Info





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perform such measurement, and how users can select tools for specific applications. They then present a live demonstration that shows how measurement can be done with Hamamatsu Photonics K.K.'s spectrometers and xenon flash lamp modules. Presented by Hamamatsu Corp.



Imaging, Inc.

Embedded Vision Application Development for Everyone

Tue, May 31, 2022 11:00 AM - 12:00 PM EDT As the use of artificial intelligence (AI) and machine learning innovates the approach to vision-based solutions, so too must manufacturers of embedded vision systems innovate the development process of applications. Kevin McCabe shares how IDS Imaging, Inc. is embracing this shift with the IDS NXT embedded vision platform. Equipped with this new, fully customized and flexible development

environment, a broad set of user groups can intuitively design their own applications. Using this embedded vision platform saves time and costs when commissioning and setting up individual image processing applications with AI. Presented by IDS

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.: All Things Photonics

is our guest. The episode introduces techniques including functional near-infrared spectroscopy (fNIRS), laser speckle contrast imaging, optical coherence tomography (OCT), and interferometric diffuse correlation spectroscopy, with expert insight on the advances and neurophotonic applications for each method. Boas is founding editorin-chief of the journal *Neurophotonics* published by SPIE, and he is founding president of the Society for Functional Near-Infrared Spectroscopy — a technique with practical application in wearable technology. Listen Now



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David Boas, director of the Boston University Neurophotonics Center,

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