

Multi-wavelength light source calibration in Jordan



Overview

In this paper, we demonstrate an approach that allows for reliably and rapidly (at timescales below 30 ms) varying the synthetic wavelength arbitrarily across multiple orders of magnitude which are prerequisites for dynamically reconfigurable multi-wavelength interferometry. Multi-wavelength optical information processing systems are commonly utilized in optical neural networks and broadband signal processing. However, their effectiveness is often compromised by frequency-selective responses caused by fabrication, transmission, and environmental factors. We provide electrical, physical, and mechanical calibration for a wide variety of systems, subsystems, test. Single-wavelength interferometry achieves high resolution for smooth surfaces but struggles with rough, industrially relevant ones due to limited unambiguous measuring range and speckle effects. For those customers who wish to do their own.

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To reduce the errors caused by frequency-selective response in multi-wavelength systems while maintaining accuracy, usability, and effectiveness, this work presents the Deep ...



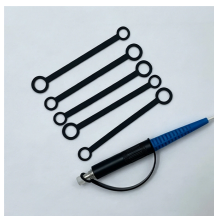
HighFinesse offers a variety of frequency stabilized, narrow linewidth laser sources for the calibration of all wavelength meters and applications down to ± 0.5 MHz absolute accuracy.



SESAME is a cooperative venture by the scientists and governments of the region, and was established under the auspices of UNESCO. SESAME is located in Allan, Jordan (30 km from Amman and 30 ...



In this paper, we propose a novel approach that enables accurate power monitoring without sacrificing optical energy, aimed at stabilizing the output power of a four-wavelength LED ...



We demonstrate a light source for multi-wavelength interferometry based on electro-optic single-sideband modulation. It reliably generates synthetic wavelengths with arbitrary values from ...



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The ID10 beamline of the SESAME (Synchrotron-light for Experimental Science and Applications in the Middle East) synchrotron light source in Jordan was inaugurated in June 2023 and is now open to ...



Synchrotron-light for Experimental Science and Applications in the Middle East (SESAME) is a third-generation light source operated as an intergovernmental organization in Jordan. It is the ...



We provide electrical, physical, and mechanical calibration for a wide variety of systems, subsystems, test equipment, and instruments.



For wavelength calibration, Avantes offers a variety of sources including Argon, Mercury-Argon, Neon, Zinc, and Cadmium. All Avantes spectrometers are factory wavelength calibrated and do not require ...

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