

High-precision multi-wavelength light source maintenance and repair



Overview

Practical, technician-grade guidance: this article condenses proven maintenance schedules, diagnostic checklists, and safety-first troubleshooting for LED-laser stage fixtures to reduce downtime, extend service life, and ensure compliance with IEC laser-safety and industry. Practical, technician-grade guidance: this article condenses proven maintenance schedules, diagnostic checklists, and safety-first troubleshooting for LED-laser stage fixtures to reduce downtime, extend service life, and ensure compliance with IEC laser-safety and industry. At Aumictech LLC, we specialize in wavelength meter calibration and repair as well as optical laser source calibration for industry-leading brands including Agilent/Keysight, HighFinesse, Bristol Instruments, EXFO, Photonetics, and Anritsu. Accurate wavelength and power measurement is critical for. The contract is awarded by a central purchasing body The procurement documents are available for unrestricted and full direct access, free of charge, at Additional information can be obtained from the above-mentioned address Tenders or requests to participate must be submitted electronically via. Micro Precision Calibration provides ISO/IEC 17025 accredited services for a wide range of optical test equipment. From manufacturing floors to research labs, our optical calibration services guarantee that your instruments, whether for fiber optics, photometry, or dimensional inspection, deliver. OPOs are known for being widely tunable and for maintaining the same high level of performance across the entire wavelength range. This makes them the ideal light source for spectroscopic experiments and means they have been used for many years in diverse areas, such as molecular spectroscopy. However, with the reduction in chip pitch and chip size, achieving efficient repair of defects among millions or even tens of millions of micrometer-scale chips has become a major challenge. In this paper, a micrometer-level homogenize...

Article Content

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High Voltage Power Supply Repair

We offer high voltage power supply repair at a fraction of the cost compared to the original equipment manufacturer! Ready for an evaluation?

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Ultra High-Precision Wavefront Metrology Using EUV Low Brightness Source

Plasma-induced EUV sources are widely used for various purposes as the compact source. This source has low brightness that is 10^{-6} to 10^{-7} lower than that of SR, and the real-time monitoring is

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Four Wavelength Coaxial Laser System for Micromachining & Panel Repair

To support advanced panel fabrication and refurbishment, we offer a compact, air-cooled, multi-wavelength nanosecond laser engineered specifically for precision micromachining tasks such as pixel ...

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[2209.11417] High-quality multi-wavelength quantum light sources on ...

Multi-wavelength quantum light sources, especially at telecom band, are extremely desired in quantum information technology. Despite recent impressive advances, such a quantum

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High-precision micrometer-level homogenized light spot laser repair ...

Experiments show that this technology can accurately identify defects and achieve non-destructive repair, significantly improving production yield and efficiency, and providing a reliable

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FHS2 Dual-Wavelength Laser Source Guide

The FHS2 Series Dual-wavelength Laser Source is designed for stable and portable optical fiber testing, supporting multiple wavelengths including 850nm, 1300nm,

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HighFinesse WS8-2 Wavelength Meter Calibration and Repair

When it comes to high-precision optical metrology, the HighFinesse WS8-2 Wavelength Meter stands out as one of the most advanced and in-demand instruments in the market today.

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Power stability control of a multi-wavelength LED light source using ...

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

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A Non-Invasive and Highly Accurate Multi-Wavelength

A non-invasive NIR glucose sensor with more efficient multi-wavelength light optical information and using a predicted algorithm shows

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Dual-wavelength picosecond lasers with high-energy and high-beam-quality output represent a promising laser source for ultraremote spatial-target laser ranging applications.

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Optical Calibration Services

Accredited optical equipment calibration services, NIST traceable. We support microscopes, laser power meters, spectrophotometers, and fiber

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Our SuperNova Light Source for Co-Packaged Optics

As the first optical source designed to be compliant with the CW-WDM MSA specification, our SuperNova light source can be deployed across a wide range of

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Optical Calibration Services

Start your request today to have one of our calibration specialists perform a fiber optic or light calibration, repair, or validation service. Equipment

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Repair Services

Provide high efficiency, high quality service, short Lead Time . Price Competitiveness
Lab Equipments 20 Testing / Evaluation / Assembly lines for RF power system, and

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ID5631539

FSNI wish to establish a contract for the supply, delivery and maintenance of 3 portable Multi Wavelength Light Sources (MWLS). The contract will commence upon commissioning of the...

Dec 08, 2025

Multi-wavelength pinhole point diffraction interferometry for optics ...

To expand the measurement range of PPD while taking the measurement accuracy into consideration, we present a multi-wavelength pinhole point diffraction interferometry (MPPDI) which

May 21, 2026

Maintenance method using 1650-nm wavelength band for

We improved the conventional maintenance system by adding appropriate system components including a narrow wavelength light source and a fiber-grating filter for the 1650-nm

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Wavelength Meter Best Repair and Calibration Services at Aumictech

At Aumictech, we specialize in professional-grade repair and calibration services for wavelength meters from top manufacturers. We service a wide range of models — including legacy

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Multi-wavelength optical information processing with deep ...

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

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Power stability control of a multi-wavelength LED light source using ...

Abstract The multi-wavelength LED light source, which combines emissions from different LEDs using dichroic mirrors, has emerged as a leading excitation source in fluorescence microscopy.

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Application of multi-wavelength light source to micro welding ...

We have developed a multi-wavelength light source and apply it to micro welding inspection. We project light rays from multiple white light super bright LEDs on a reflection grating.

Jun 07, 2026

Customized wavelengths

Through skillful combination of specially developed optics, mechanics and electronics, light sources with high conversion efficiencies, mechanic stability and

Apr 16, 2026

Service & Repair of Burleigh WA-7100 Optical Wavelength Meter

We offer expert repair, maintenance, and calibration services for the Burleigh WA-7100 and WA-7600 Optical Wavelength Meters —high-precision instruments used for laser characterization, fiber optic

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Calibration Sources

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.

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Compact High-Resolution Multi-Wavelength LED Light

Therefore, this study introduces a high-resolution, compact, and budget-friendly multi-wavelength LED light source tailored for precise and

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High Wavelength Count Laser Sources for WDM CMOS Optical

Abstract: We demonstrate a CW-WDM MSA compliant multi-wavelength source driving an error-free WDM CMOS optical link. The SuperNova™ operates up to 100°C and outputs 64 optical carriers (8

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Wavelength Meter and Lasers Calibration and Repairs

Aumictech provides NIST-traceable calibration, advanced diagnostics, and cost-effective repair services, ensuring your wavelength meters and lasers maintain

Nov 19, 2025

Maintain and Troubleshoot LED Laser Stage Lighting — Uplus Lighting

They combine high-brightness diode sources, precision optics, and active electronics; these subsystems require distinct, repeatable maintenance and fault-isolation procedures. Below we provide concise,

Jul 06, 2025

Service and Repair of Agilent 81640A Tunable Laser Source

We offer full repair, maintenance, and NIST-traceable calibration for the Agilent 81640A Tunable Laser Source, an industry-standard laser used in high-precision DWDM component testing, optical

Contact Us

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