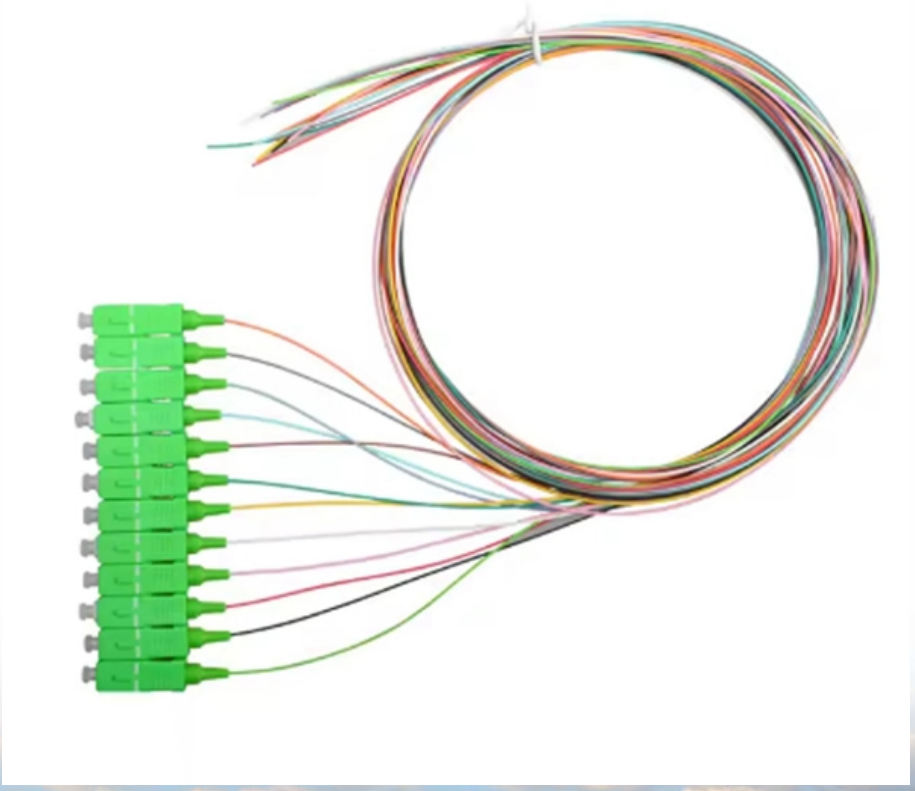
ZTP Thermal & Power

High-precision multi-wavelength light source intelligent repair and maintenance



Overview

It is observed that a human inspector can obtain better visual observations of surface defects via changing the lighting/viewing directions from time to time.

Millimeter-wave radar for intelligent sensing: A

Millimeter-wave (mmWave) radar sensing has established itself as a robust technology across diverse applications, such as automotive, healthcare, security, and smart homes. Its

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AI-driven pseudo-light source for achieving high coherence and low

Developed a pseudo-light source for digital holographic microscopy through AI model, effectively achieving both characteristics of high coherence and low speckle noise.

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Sivers Photonics and Ayar Labs demonstrate SuperNova(TM) multi-wavelength

Sivers Photonics and Ayar Labs demonstrate SuperNovaTM multi-wavelength light source with Sivers DFB laser arrays at ECOC 2022 Sivers Semiconductors AB today announces that

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Anomaly Detection in Multi-Wavelength Photoplethysmography Using

A multi-wavelength approach has the advantage of versatility, noise reduction, different levels of tissue penetration, and enhanced overall information. The MW-PPG configurations shown in Figure 3 can

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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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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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Multi-Wavelength Collimated LED Sources

The highly collimated multi-wavelength output beam is suitable for working with lenses, filters, dichroic, mirrors, and many other optical components, while

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Enhanced detection of diverse defects by developing lighting

The process of developing this study not only utilizes the ubiquitous image processing to extract defects but also imports the design of generalized defect sample and reinforcement learning,

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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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Parallel optical computing capable of 100-wavelength multiplexing

Establishing 100-channel coherent sources is challenging, as limited by the scalability of conventional laser sources. The soliton microcomb as a multi-wavelength source provides a scalable

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Quantifi Photonics launches first CW-WDM MSA-compliant laser test source

Designed to meet specifications of the Continuous-Wave Wavelength Division Multiplexing Multi-Source Agreement (CW-WDM MSA), the Laser 1300 Series allows the characterization of

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Anomaly Detection in Multi-Wavelength

Over the past few years, there has been increased interest in photoplethysmography (PPG) technology, which has revealed that, in addition to

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Xavierman/Fusion-of-multi-light-source-illuminated

In this paper, we build a multi-light source illumination/acquisition system to capture images of workpieces under individual lighting directions and then propose a

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Fusion of multi-light source illuminated images for effective defect

To achieve automatic tunnel surface defect detection with high precision, we propose a multi-layer feature fusion network, based on the Faster Region-based Convolutional Neural Network

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Dynamically reconfigurable multi-wavelength interferometry

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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Multi-wavelength pinhole point diffraction interferometry for optics

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

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High Wavelength Count Laser Sources for WDM CMOS Optical

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

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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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Enhanced detection of diverse defects by developing lighting

The process of developing this study not only utilizes the ubiquitous image processing to extract defects but also imports the design of generalized defect sample and reinforcement learning,

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Quantifi Photonics announces the Laser 1300 Series,

Quantifi Photonics, a pioneer in high-density test equipment for next-gen optical interconnects, announced the new Laser 1300 Series, a compact and

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Multi-Wavelength Quantum Light Source with Dual Pumps

We demonstrate a multi-wavelength quantum light source utilizing dual pumps and realize the generation of 25-pair correlated photons in a silicon nitride micro-ring resonator. The properties of

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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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Sivers Photonics and Ayar Labs demonstrate SuperNova(TM) multi-wavelength

Basel,SwitzerlandSiversSemiconductorsABtodayannouncesthatitssubsidiary,Sivers Photonics, has successfully demonstrated its CW-WDM MSA compliant distributed feedback

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Wavelength-multiplexed multi-mode EUV reflection ptychography

Previousworksofwavelength-multiplexedreconstructionwithHHGsources,however23, 25, 41, did not incorporate the spatial modes and could not correct experimental uncertainties.

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High responsivity and multi-wavelength response photodetector

Based on the low cost, high performance and multi-wavelength photoresponse, this present detector has significant potential for applications in optoelectronics and electronics in the future.

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OFC 2025: Scintil Photonics showcases LEAF Light(TM),

LEAF Light is the only single-chip solution that can meet all the system requirements at an acceptable size and cost for the emerging co

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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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Emerging integrated laser technologies in the visible and short near

Advances in PICs are enabling rapid progress in the creation of compact and high-performance laser sources across the 400-1,000 nm wavelength range, which encompasses the

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