

This Week in PHOTONICS



Picometer Resolution

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

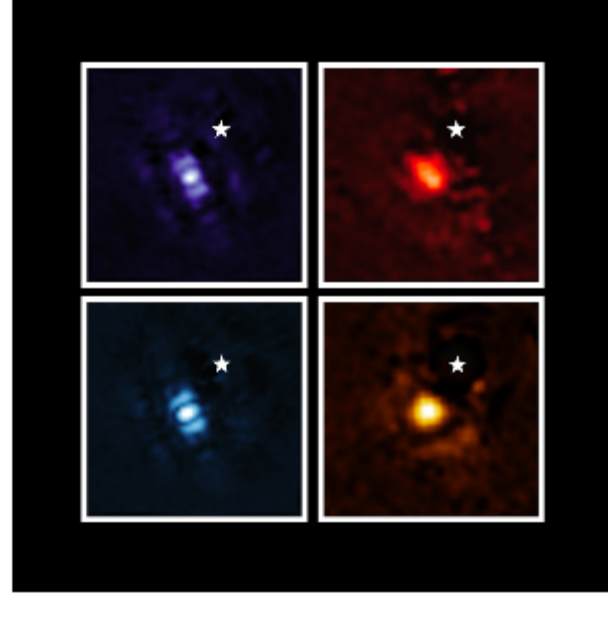


.: Top Stories

Webb's Exoplanet Observations Demonstrate Its Strengths

In two groundbreaking firsts, NASA's James Webb Space Telescope captured a direct image of an exoplanet, or a planet outside our solar system, as well as the first clear evidence for carbon dioxide in the atmosphere of an exoplanet.

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Newly Formed Aalyria Repurposes Tech for Advanced Optical Networking

Backed by Silicon Valley investors, Aalyria has officially launched as an independent company. A spinout of Google's parent company Alphabet, Aalyria uses advanced networking and laser communications technologies to orchestrate and manage complex networks around the world, extending them into areas without connectivity infrastructure.

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Sensor-Integrated Flow Cytometry Shows Early Diagnosis Potential

A digital droplet microfluidic flow cytometry technique could enable earlier recognition of tumor development and progress, by aiding in the detection of multiple microRNAs (miRNAs) in single circulating tumor cells (CTCs). Tumor-associated miRNAs within CTCs are considered biomarkers for tumor growth.

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.: Upcoming Webinars

An Introduction to Plastics Laser Welding
Thu, Sep 22, 2022 10:00 AM - 11:00 AM EDT
Lasers are a beneficial tool for joining sheet, film, or molded thermoplastics, and textiles including thermoplastic composites. Laser processing allows for a precise, yet rapid, delivery of a controlled amount of energy to the required point exactly. Equipment is available in a wide selection of forms, suitable for small and large parts, complex shapes, and many different polymer types and combinations. Ian Jones describes the main processes and procedures used for laser welding, how welding is carried out, and the materials and joint designs that it can be applied to. He also shares the important components of laser welding equipment and a brief introduction to some of the product manufacturing applications.

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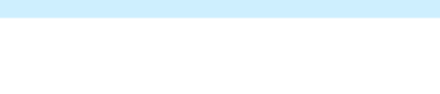
How to Design Machine Vision for Your Application: From Infrared to Hyperspectral
Tue, Sep 27, 2022 1:00 PM - 2:00 PM EDT
Andrew Bodkin, founder of Bodkin Design & Engineering, shares a technical overview of the process of machine vision sensing based on his 30 years of experience in electro-optics, custom engineering, and understanding of optical phenomenology. As the machine vision market expands and innovations become more affordable, choosing the right spectral camera or custom solution can be both exciting and overwhelming. With attention to solution-based problem-solving, Bodkin explores how to narrow in on specific dilemmas in a business's quality control process and select the correct components for machine control. He also presents an outline of machine vision techniques and explores how to identify the features common to most systems.

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