



Trade press release

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SPIE Photonics West 2018: High-Performance Cell Diagnostics with Jenoptik's Miniaturized Imaging Platform

With 'SYIONS', Jenoptik is broadening its extensive expertise in diagnostics and analytics solutions to include a digital image capture, processing and analysis platform that can be configured to the customer's specific needs. Premiere at SPIE BiOS and SPIE Photonics West in San Francisco.

Jenoptik's new solution 'SYIONS', a miniaturized modular diagnostic imaging platform, allows users to quickly and efficiently generate all types of image data from in-vitro diagnostics devices for use in scientific and clinical settings. SYIONS enables the quick and cost-effective implementation of applications in the areas of live cell imaging, flow cytometry and molecular diagnostics.

The modular system solution combines proven Jenoptik modules such as LED illumination, optical elements, digital cameras and auto-focus, as well as X/Y scanners, electronics, and software, to enable efficient imaging solutions that provide the user with images of the highest quality and ensure easy integration into the software system environment of medical or laboratory devices. Moreover, with Jenoptik's own modular software, work processes and more can be performed consistently and efficiently across various operating systems. For instance, with the help of Jenoptik's SYIONS platform, the examination of cells or tissue samples can be automated quickly and reliably. Devices are decreasing in size while, at the same time, performance data is improving and reliability is increasing. Due to the standardization of the individual modules, these devices can now be produced cost-effective in smaller production runs.

Modular Platform for Digital Image Capture, Processing and Analysis

Wolfgang Keller, Head of the Healthcare & Industry division at Jenoptik, sums up the benefits of the new imaging platform: "SYIONS is made up of various established Jenoptik technologies, which we have combined to create a complete custom solution that is tailored to the individual needs of our clients, including their system requirements and application needs. This complete system is significantly smaller than conventional microscopes and imaging systems, meaning it can be quickly and easily integrated into our clients' laboratory equipment, whether existing or yet to be developed. With SYIONS not only can our clients rely on the dependability and stability of the individual technology components, but also on our many years of experience manufacturing them to Jenoptik's proven quality standards."



Jenoptik will be presenting the first version of its modular diagnostic imaging platform at SPIE BIOS in the Moscone West hall at Stand 8513 from January 27 to February 1, 2018 and at SPIE Photonics West in the Moscone South hall at stand 1023 in San Francisco, USA.

Jena, January 23, 2018

About Jenoptik | Healthcare & Industry

As an integrated photonics group, [Jenoptik](#) is active in the segments of Optics & Life Science, Mobility, as well as Defense & Civil Systems.

In the Healthcare & Industry unit of the Optics & Life Science segment Jenoptik develops specific system and application solutions for customers worldwide in the healthcare sector and industry. The focus is on medical technology and life science as well as laser, automotive and lighting applications. The product portfolio includes semiconductor chips, optoelectronics, laser technology, polymer optics, electronics and software. Jenoptik combines them to OEM system solutions and products for the life science industry, such as analysis and treatment systems for research, clinical applications, and patient self-diagnosis. For industrial applications, Jenoptik offers high-performance optoelectronic components and modules as well as integrated solutions. They include complex components for head-up displays, innovative lenses for driver assistance systems and polymer optics for machine vision or augmented reality applications. In the area of industrial lasers for laser material processing, Jenoptik is active in the entire laser value creation chain.

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