

**Press Release**

## **Schneider-Kreuznach presents the TITANITE lens, an innovation in light sheet microscopy**

**Bad Kreuznach, September 24, 2024 - Schneider-Kreuznach has developed the high-resolution TITANITE lens specifically for the requirements of medical and biological research. With an extremely high resolution of up to 2.8  $\mu\text{m}$  pixel size and an exceptionally large image circle of 82 mm, this groundbreaking lens sets new standards.**

Optimized for 5x magnification, the TITANITE lens enables precise analysis of larger samples in a single image. This is a significant improvement over previous methods that required multiple images to be combined into a single image with high investments in costs and time. Researchers and scientists benefit from more efficient and accurate examination of their samples, especially in fluorescence microscopy.

An outstanding feature of the TITANITE lens is its compatibility with current sensors such as the SONY IMX461, IMX661 and IMX811, as well as other advanced high-resolution image sensors. This versatility enables use in a wide range of scientific applications where high image quality and a large field of view are critical.

Interchangeable stainless steel immersion caps allow the TITANITE to be adapted to different media. It is easily and securely mounted to different cameras using the universal V-mount connection and accessories.

"With the TITANITE lens, we have created a solution that meets the specific requirements of high-resolution light sheet immersion microscopy and at the same time significantly increases efficiency in medical and biological research," explains Magnus Greger, Head of Schneider-Kreuznach's Industrial Business Unit. "We are convinced that this goal will make a decisive contribution to the further development of research."

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### **About the Schneider-Kreuznach Business Unit Industry**

Schneider-Kreuznach Industry as a Business Unit of Jos. Schneider Optische Werke GmbH manufactures and markets optical and precision components and assemblies for machine vision and other image processing applications. Our high-quality, robust optical solutions for image processing help system integrators and machine manufacturers improve their image processing systems. In addition to our standard Industrial Lenses and Filters product range Schneider-Kreuznach Industry offers customized solutions for optical components, Lenses, Filters, optical assemblies and systems.

### **About the Schneider Group:**

The Schneider Group is specialised in the development, production and manufacturing of high-performance lenses as well as filter systems for the industrial, film and photo sectors. The main brand "Schneider-Kreuznach" stands for leading technology from Germany for decades. Our applications in industry include optical inspection and 3D measurement. In the film industry, we have won the Scientific and Technical Award (so-called „technology Oscar“) several times with our products, and photographers appreciate our B+W filters.

The Schneider Group includes Jos. Schneider Optische Werke GmbH, founded in Bad Kreuznach in 1913, the subsidiary of the same name in Singapore, and the companies Schneider Optics (New York, Los Angeles), Schneider Optical Technologies (Shenzhen) and Schneider Asia Pacific (Hong Kong). The Schneider Group employs around 330 people worldwide, 300 of them work at the German headquarter.