

Press Release

High-end Metrology for an Excellent XR Experience

At SPIE AR|VR|MR 2025 and Photonics West 2025 in San Francisco, Instrument Systems will be presenting comprehensive solutions for optical quality control that cover the entire manufacturing process of AR/VR/XR devices: from optical modules and micro displays to final headset displays.

Munich, December 2024 – *At SPIE AR|VR|MR 2025 and Photonics West 2025 in San Francisco, Instrument Systems will present its high-end measuring instruments for optical quality assurance of AR/VR/MR devices along the entire production chain.*

At SPIE AR|VR|MR, the new LumiTop 5300 AR/VR will be presented at booth # 6302. This 2D luminance and color measurement camera with 24 MP resolution and straight lens is particularly well-suited for testing AR/VR/MR display modules before installation in the headset. It complements the proven LumiTop 4000 AR/VR with a periscope lens. Also new is the TOP 300 AR/VR, an optical probe for fast and easy quality testing of headset modules for luminance and color in production and development. It imitates the human eye and is connected directly to a CAS series spectroradiometer. Additionally on display will be the LumiTop X150, an ultra-high-resolution luminance and color measurement camera developed for quality control of OLED and MicroLED displays at pixel level.

At booth #4205-17 (German Pavilion) at Photonics West, Instrument Systems will be showcasing a selection of its light measuring devices for 2D measurements in the wavelength range from UV to IR.

SPIE AR|VR|MR 2025, Stand 6302

28 – 29 January 2025, San Francisco, USA

SPIE Photonics West 2025, Stand 4205-17 (German Pavilion)

28 – 30 January 2025, San Francisco, USA



Photo: Imaging Colorimeter LumiTop 5300 for measuring AR/VR/MR displays.

Text and images:

<https://instrumentsystems.owncloud.online/s/tDh04rj2h21aJX4>

About Instrument Systems GmbH

Instrument Systems GmbH, founded in Munich in 1986, develops and produces high-end light measurement technology that is indispensable for manufacturers of consumer electronics, (AR/VR) displays, μ LED wafers, VCSEL/laser systems, automotive lighting and LED/SSL modules. All solutions benefit from our CAS series of high-precision spectroradiometers that are widely recognized and used worldwide. In combination with 2D imaging colorimeters, integrating spheres and goniometer systems, they enable high-precision and accurate measurements in the entire range from UV to IR, traceable to PTB or NIST. Today, Instrument Systems is one of the world's leading manufacturers of light measurement technology. At its Berlin facility, the "Optronik Line" of products is developed and marketed for the automotive industry and traffic technology. Our subsidiary in Korea supplements the product portfolio with the "Kimsoptec Line" for the Korean light & display market. Instrument Systems has been a wholly-owned subsidiary of the Konica Minolta Group since 2012.

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