

Press Release

Mastering challenging solid-state light measurement tasks

At Strategies in Light USA, Instrument Systems will be presenting advanced light measurement technology for the solid-state lighting (SSL) industry and LED manufacturers

Munich, January 2018 – At Strategies in Light USA (13–15 February 2018, Long Beach) Instrument Systems will be showcasing solutions for the current challenges to be faced in the measurement of solid-state lighting sources. Several photometric and spectroradiometric measuring stations at Stand 501 will demonstrate advanced light technology, based on the new high-precision CAS 140D spectroradiometer. Visitors will be able to experience live the angle-dependent measurement of lamps and luminaires with the LGS 350 goniophotometer, as well as light measurement characterization of high-power LEDs combined with a Vektrex power source and an integrating sphere. A further test setup will present all-in-one solutions on the highly topical subject of UV LEDs. Together with the representatives from Instrument Systems, the participants of a four-hour workshop on 13 February will acquire expertise in dealing with operating conditions, requirements and measurement technology, and the assessment of measurement uncertainties.

The new CAS 140D array spectrometer presented at the booth is characterized by exceptionally high measurement accuracy and reliability, and due to its improved optical and mechanical structure it is even smaller, more functional and easier to integrate into existing measurement environments. Automatic accessory recognition means high process reliability both in production and in the laboratory. As a complete system, the CAS 140D is suitable for all spectroradiometric and photometric measuring tasks, as well as for the determination of the correlated color temperature CCT and color rendering index CRI. Especially for the measurement of colorimetric quantities, the Instrument Systems test labs are now certified to ISO 11664.

On the subject of UV LEDs the Munich-based manufacturer will be presenting a new UV measurement solution consisting of a spectroradiometer and a series of integrating

spheres specially designed for UV sources. This all-in-one system is suitable both for applications in the lab and use in production environments. Test specimens with various different radiation spectra from 200 nm in the UV-A, UV-B and UV-C ranges can be reliably measured with a high degree of precision.

The English-language workshop “How to measure SSL devices in lab and production” will convey a high level of expertise for complex SSL measuring tasks. The participants will learn the fundamentals of photometry and measurement technology, and discuss relevant standards with the speakers from Instrument Systems. Current challenges, e.g. UV LEDs, VCSEL diodes, micro LEDs, measurement uncertainties budget will also feature in the lectures, together with a live demonstration of a typical laboratory setup. The workshop is to be held on Tuesday 13 February from 8 am to 12 noon. Light measurement specialists Dr. Thomas Attenberger, Dr. Günther Leschhorn, Dr. Tobias Roesener and Justin Blanke will be speaking.

Further product information can be found at the website of Instrument Systems:

www.instrumentsystems.com



Figure 1: The stray light corrected CAS 140D array spectrometer is also suitable for the assessment of blue light hazard by light sources.

Company portrait of Instrument Systems GmbH

Instrument Systems GmbH, founded in Munich in 1986, develops, manufactures and markets all-in-one solutions for light measurement applications. Its core products are array spectrometers and imaging colorimeters. The company's main fields of activity are LED/SSL and display metrology, spectral radiometry and photometry, where today Instrument Systems is one of the world's leading manufacturers. The Optronik line of products for the automotive industry and traffic technology is developed and marketed at its Berlin facility. Since 2012 Instrument Systems has been a wholly-owned subsidiary of the Konica Minolta Group.

For further information or photos / illustrations:

Dr. Karin Duhnke, Instrument Systems GmbH

Tel. +49 (0)89-45 49 43-426

Fax. +49 (0)89-45 49 43-11

E-Mail: duhnke@instrumentsystems.com

www.instrumentsystems.com

File copy requested to:

Instrument Systems GmbH, Dr. Karin Duhnke, Neumarkter Str. 83, 81673 Muenchen