

Press Release

New products and solutions for display, UV and laser diode measurement

Instrument Systems to present numerous innovations at LASER World of PHOTONICS 2017

Munich, June 2017 – At LASER World of PHOTONICS, due to be held in Munich from 26-29 June 2017, Instrument Systems will be showcasing many new products for the measurement of displays, UV sources and laser diodes, together with an extensive portfolio of spectroradiometric instruments.

Display measurement technology with the new LumiCam 2400

With the LumiCam 2400 Instrument Systems presents a new imaging photometer and colorimeter for the characterization of displays, control and display elements. The LumiCam 2400 – expected to be available by autumn – delivers images with an effective 5 megapixel resolution, enabling the evaluation of extended instrument clusters or small details with an extremely high resolution. The respective software calculates all relevant variables, e.g. luminance, color coordinates, color temperature, color homogeneity or dominant wavelength. A wide range of analysis tools enable a comprehensive evaluation of the measured values. The LumiCam software also offers freely configurable false color presentation for the impressive visualization of data.

UV measurement technology with the new CAS 140D

The CAS 140D spectroradiometer developed by the Munich-based light measurement technology specialists will be celebrating its premiere in Germany at LASER. The successor to the CAS 140CT series – tried and tested in more than 10,000 customer projects worldwide – offers further improved performance values while retaining all the relevant spectrometer characteristics. The CAS 140D will be featured at the stand in combination with representatives of the new series of integrating spheres, optimized for measurements in the low UV range. Together they represent perfect all-in-one systems which are ideally suited to

both applications in the laboratory and use in production environments. Test samples with various radiation spectra upwards of 200 nm in the UV-A, UV-B and UV-C range can be reliably measured with a high degree of precision. Instrument Systems is therewith addressing in particular the massively expanding range of UV-LEDs in the coming years.

Measurement of laser diodes with the new CAS 140CT-HR

With the CAS 140CT-HR series of high-resolution spectroradiometers, Instrument Systems now supplies solutions for very narrow band emission sources, e.g. laser diodes. The models for 80 nm, 120 nm or 160 nm wide wavelength ranges achieve a spectral resolution of up to 0.2 nm. These are ideal, e.g. for the spectroradiometric evaluation of VCSLs in research and development or series tests in the production line. The system enables the power, spectrum and wavelength of laser sources to be determined in only one short measurement with a minimum of only 10 ms.

Spectral radiometry, transmissions and reflection measurements

The universal Spectro 320 can be employed for all spectroradiometric measurement tasks, including transmission and reflection measurements of optical filters and coatings for both specular and diffuse geometry with the highest precision. The sturdy mechanical construction of the spectroradiometer ensures a high degree of measurement stability and absolute wavelength precision, even over a broad temperature range. Together with its wide spectral range (190 to 5000 nm) these properties make the system ideal as a reference instrument in numerous national and calibration laboratories, as well as in research and development.

The Instrument Systems sales engineers will be pleased to advise interested trade fair visitors at LASER World of PHOTONICS in **Hall A2, Stand 221** on the numerous new products and measurement solutions.

www.instrumentsystems.com



Fig. 1: The new LumiCam 2400 imaging photometer and colorimeter provides images of displays and control indicators with an effective resolution of 5 megapixels.



Fig. 2: The new series of integrating spheres has been specially designed for UV sources, and in combination with the new CAS 140D spectroradiometer it enables the evaluation of test samples in the UV-A, UV-B and UV-C range.

Company profile of Instrument Systems GmbH

Instrument Systems was founded in 1986 and is based in Munich, Germany. The company develops, manufactures and markets turnkey solutions for light measurement. Instrument Systems delivers a comprehensive range of light measuring products for industrial and research applications. These include high-performance array and scanning spectrometers, as well as imaging photometers and colorimeters. Key applications are LED/SSL and display measurement, as well as spectroradiometry and photometry. Today Instrument Systems is one of the world's leading manufacturers in this area. The associated Optronics Division, located in Berlin, develops and markets photometric test equipment specifically for the automotive industry and transport sector. About 85% of sales are generated by the export business. Since 2012 Instrument Systems has been a wholly-owned subsidiary of the Konica Minolta Group.

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