

## Press Release

### Precise radiation measurement in the UV range

Instrument Systems will be showcasing traceable calibration UV-LEDs with extremely low measurement uncertainty.

**Munich, February 2020** – *Calibration UV-LEDs of the Instrument Systems ACS series are extremely stable UV sources on LED basis that are traceable to radiant flux. They exhibit an extremely low measurement uncertainty (k=2) of only 4.5% (UVC), 3.5% (UVB) and 2% (UVA) and are available for typical peak wavelengths 280 nm (ACS-570-24), 305 nm (ACS-570-26), and 365 nm (ACS-570-28). Calibration UV-LEDs are used for absolute calibration and monitoring of UV measuring equipment.*

Instrument Systems was the first company in the world to develop calibration UV-LEDs that can be traceably calibrated to radiant flux. The calibration UV-LEDs of the ACS series are available for the typically peak wavelengths of 280 nm (UVC), 305 nm (UVB) and 365 nm (UVA). The proven ACS series on LED basis now covers the complete visible and infrared to deep into the ultraviolet range. The traceability of the radiant flux is achieved due to the highly precise calibration of the spectrometer optical probes to the irradiance and integrative measurement with the goniophotometer. The extremely low measurement uncertainty (k=2) of only 4.5% (UVC), 3.5% (UVB) and 2% (UVA) is comparatively low, as in the metrologically unproblematic visible range. Calibration UV-LEDs can be used for monitoring and absolute calibration of the special UV measuring equipment such as integrating spheres of the ISP-UV series.

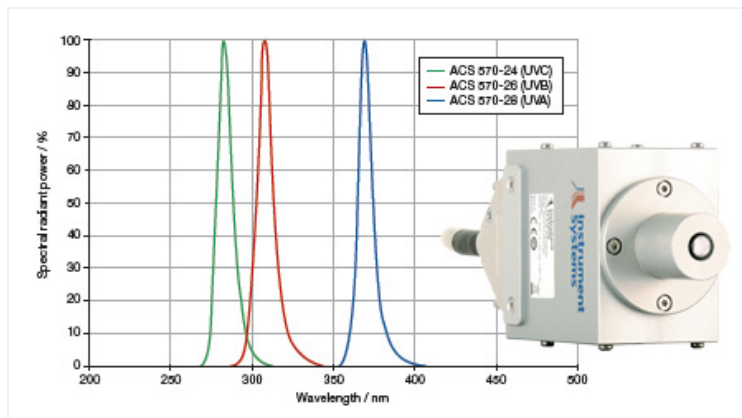
**<https://www.instrumentsystems.com/en/products/calibration-standards-services/calibration-leds/>**

**Trade fair notice:**

Light+Building 2020, Booth 8.0 F60,  
27 September – 2 October 2020, Frankfurt / Germany

**Figure:**

Typical spectral curves for calibration UV-LEDs.

**Further copy and pictures:**

<https://services.instrumentsystems.com/owncloud/index.php/s/leGTM6ORbFyz5OH>

**Company portrait 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. Instrument Systems has been a wholly-owned subsidiary of the Konica Minolta Group since 2012.

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