

Hyper-Size Luminance – Near Field Goniometer at Volkswagen AG

The first large-size near-field luminance goniometer was delivered to Volkswagen AG in Wolfsburg. The clearance is 1200 mm and therefore enables the measurement of voluminous headlight systems. Due to its extremely solid self-supporting aluminum construction, however, the goniometer is also very suitable for the measurement of small light sources such as tiny LEDs.

In addition to the luminance measurement camera, the goniometer is equipped with a standard photometer and a spectrometer for the measurement of the visual angle-dependent spectral distribution.



luca High-Dynamics Light Source Measurements

High Dynamic - 20 Bit



The luminance measurement system **luca** has been serialized in the high-dynamics version since autumn 2003, which means an increase of the grey scale dynamics within the image from 12 Bit to either 14, 16, 18 or 20 Bit! The feature delivers much more information especially when measuring low luminances next to high luminances, which mainly occurs when measuring prism optics or with direct measurement of light sources. You can see clearly the improved measurement dynamics of the light source at its margin or at the bulb in the given example. Send us your measuring task!



New Team Member

Mrs. Sylvia Eckart has been intensifying the work of the **opsira** GmbH team since May 2003.

She's adding to our team of optical engineers and is mainly working on the optimization of optical and illuminating engineering systems by means of optical simulation.

Mrs. Eckart supplements the **opsira** know-how by her extensive experiences from her former tasks within the field of optics design and materials as well as by her part-time work during her apprenticeship.

Please contact Mrs. Eckart:
eckart@opsira.de



Ray data for optical simulation

The realistic simulation of optical systems make the use of precise and close-to-reality light source models inevitable. The **opsira** GmbH delivers ray data of LEDs, bulbs as well as gas discharge light sources for the simulation programmes ASAP™, ZEMAX®, SPEOST™, LightTools®, LucidShape, SimuLUX and TracePro. Further formats are under way.

We measure the light sources with the help of a near-field luminance goniometer and deliver the data in an **opsira**-format. The attached cost-free software provides an export of the ray data for the different simulation programmes. The user is able to determine the number of desired rays individually.

A large number of light sources is available. Please ask for the light source you need. You will receive your precise ray data shortly.

You are also invited to ask for a cost-free demo-package via info@opsira.de or +49 751 - 561 890.

We are looking forward to your inquiry!