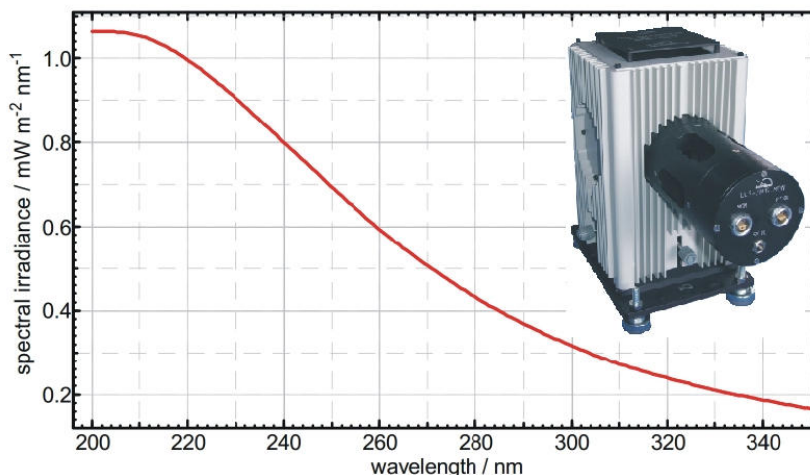


DLS- J1016

Precision is
our business



APPLICATION

The Deuterium Lamp System DLS-J1016 is a newly developed transfer standard for spectral irradiance in the UV wavelength range from 200 nm to 350 nm. It is based on a design by the Physikalisch-Technische Bundesanstalt (PTB), Germany. The deuterium lamp mounted in a housing (DLS-J1016-LAMP) is protected to reach stable and highly reproducible operating conditions. The alignment jig DLS-J1016-JIG allows an easy alignment of the system. The deuterium lamp power supply DLS-J1016-POWER guarantees an optimum lamp operation. The optional external SiC-monitor detector DLS-J1016-MON can be flanged to the lamp housing before and after spectral measurements to monitor the lamp drift. A complete Deuterium Lamp System DLS-J1016 consists of up to three housed lamps DLS-J1016-LAMP incl. DLS-J1016-JIG, the power supply DLS-J1016-POWER and the monitor detector DLS-J1016-MON. All components are available separately. A spectral irradiance calibration is available on demand.

A scientific description is published in 'Metrologia 40 (2003) S111-S114. Characterization of deuterium lamps as transfer standards of spectral irradiance. Sperfeld P., Stock K. D., Raatz K.-H., Nawo B., Metzdorf J.'

SPECIFICATION

The system is planned to be available in a small series.

- DLS-J1016-LAMP: 30W deuterium lamp mounted and aligned in a housing with removable alignment-jig. Built-in resistor and connectors to measure lamp current and lamp voltage. Connection cable to the power-supply with plug.
- DLS-J1016-MON: Hybrid SiC photodiode in a housing that can be flanged to the lamp opening. Connectors for power and photo signal. Comes with power-adaptor.
- DLS-J1016-POWER: Power supply for 30W deuterium lamps with plug socket for the deuterium lamp.
- DLS-J1016-01: Deuterium Lamp System consisting of one DLS-J1016-LAMP incl. DLS-J1016-JIG, one DLS-J1016-MON and one DLS-J1016-POWER.
- DLS-J1016-03: Full Deuterium Lamp System consisting of three DLS-J1016-LAMP incl. DLS-J1016-JIG, one DLS-J1016-MON and one DLS-J1016-POWER.
- Available: DLS-J1016-POWER

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