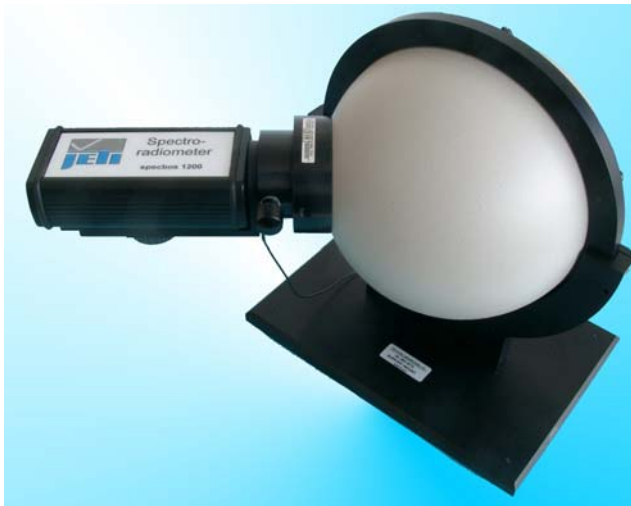


Spectroradiometer Specbos 1300

The **Specbos 1300** is an easy to use VIS spectroradiometer for fast radiant flux measurements of small light sources.

The included, easy-to-use PC software has the full complement of radiometric and colorimetric functions requisite for quality control applications and selection of samples.



Applications:

- Radiometric and colorimetric characterization of
 - LED
 - Miniature lamps

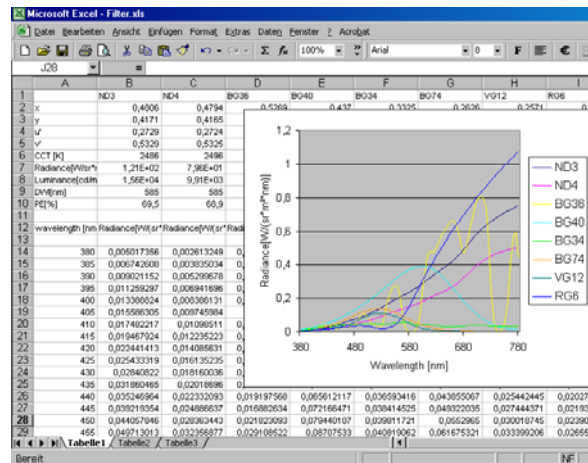
Advantages:

- USB powered – mobile! – no extra power supply
- Automatic determination of measurement time
- Excel spreadsheets

Measuring values:

- Radiant Flux, Luminous Flux,
- Spectral Radiant Flux
- xy and u'v' coordinates
- Dominate wavelength
- Color purity
- Correlated Color Temperature
- Color Rendering Index

The standard diameter of the integrating sphere is 50mm. A baffle avoids the inclusion of the first reflex to the measurement. Other sphere sizes and designs are possible.



The input port design can be adapted to user demands. Sample holders can also be fabricated to meet customer specific requirements.

Basic unit can be used also for luminance and illuminance measurement.

Specifications

Optical parameters	
Spectral range	380 nm ... 780 nm
Optical resolution	9 nm
Calculated resolution	1 nm
Digital electronic resolution	14-bit A/D Converter
Dispersive element	Diffraction grating
Light receiving element	Photodiode array, 128-pixel
Measuring values	
	Spectral Radiant Flux Total Radiant Flux/ Luminous Flux Chromaticity coordinates x,y; u',v' Correlated Color Temperature Dominant wavelength, color purity Color Rendering Index
Measuring ranges and accuracies	
Measuring range Luminous Flux	1 lm ... 4000 lm (depends from sphere size)
Luminous Flux accuracy	t. b. d.
Luminous Flux reproducibility	t. b. d.
Chromaticity accuracy	± 0.002 x, y (@ 2856 °K)
Color reproducibility	± 0.0005 x, y
CCT reproducibility	± 20 °K (@ 2856 °K)
Wavelength accuracy	± 0.5 nm
Other technical data	
Sphere diameter	50 mm (other sizes are possible)
Interface	USB 1.1 fullspeed (12 Mbit/sec)
Dimensions	220 mm x 90 mm x 140 mm
Weight	550 g
Operating conditions	Temperature 10 ... 40 °C Humidity < 85% relative humidity at 35 °C
Power supply	Hub powered
Accessories (included)	Operation instructions PC program - Specbos Radiometric for Windows 98/2000/XP/NT Calibration certificate USB cable
NIST traceable calibration	Recommended interval: one year

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