



Spectroradiometer specbos 1401

specbos 1401 is a VIS spectroradiometer for “Averaged Intensity” measurement of LED according to the CIE regulation 127.

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



Advantages:

- Easy change between condition A and B
- USB powered – no extra power supply
- Automatic determination of measuring time
- Shutter for dark correction
- Data export into Excel spread sheets

Measuring values:

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

Please specify the type of LED to be measured – we supply the suited sample holder.

The basic unit can also be used for luminance and illuminance measurements.

Specifications

Optical parameters	
Spectral range	380 nm ... 780 nm
Optical bandwidth	5 nm
Wavelength resolution	1 nm
Digital electronic resolution	15 bit ADC
Dispersive element	Diffraction grating
Light receiving element	Photodiode array 1024 pixel (binned)
Measuring values	
	Spectral Radiant Intensity accord. to CIE127 Cond. A or B
	Total Radiant Intensity/ Luminous Intensity
	Chromaticity coordinates x,y; u',v'
	Correlated Color Temperature
	Dominant wavelength, color purity
	Color Rendering Index
Measuring ranges and accuracies	
Measuring range Lum. Intensity	50 mcd ... 50 cd
Luminous Intensity accuracy	t.b.d.
Luminous Intensity 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	
Interface	USB 2.0 fullspeed
Operating conditions	Temperature 10 ... 40 °C
	Humidity < 85 % relative humidity at 35 °C
Power supply	Hub powered
Accessories (included)	Measuring tubes for Cond. A and B
	Cosine diffusor (for irradiance measurement)
	PC software JETI LiMeS for Windows 2000/XP
	DLL, LabVIEW VI's
	Operation instructions
	Calibration certificate
NIST traceable calibration	USB cable
	Recommended interval: one year