



Spectroradiometer specbos 1200

specbos 1200 is an easy to use and compact Visible light spectroradiometer. The included, user friendly software has a full complement of the radiometric and colorimetric functions required for precision research, diagnostic, and quality control applications. Uses include the measurement of diffuse light sources and screens.

Applications:

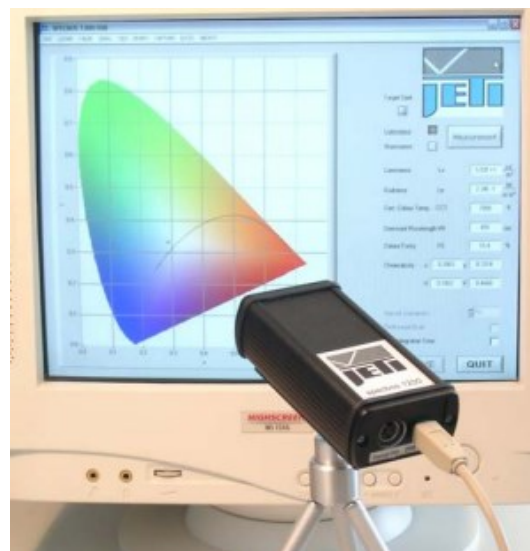
- CRT Monitors, LCD and LED Displays
- Traffic lights, automotive lighting
- Illumination sources
- Lamp burn-in testing

Advantages:

- USB version is bus powered
- Internal target spot laser
- Exports data in Excel format
- Measurement in time step intervals

Measuring values:

- Luminance, Radiance
- Illuminance, Irradiance
- xy and u'v' coordinates
- Dominate wavelength
- Color purity
- Correlated color temperature
- Color rendering index Luminous Intensity and Luminous Flux measuring heads are optional.



Specification

Optical parameters	
Spectral range	380 nm ... 760 nm
Resolution	5 nm
Calculated resolution	1 nm
Digital resolution	14-bit A/D converter
Wavelength accuracy	± 0.5 nm
Viewing angle	2°
Dispersive element	Holographic diffraction grating (9 nm FWHM)
Light receiving element	128-pixel photodiode detector array
Measuring distance/ diameter	20 cm - Ø 7 mm; 100 cm - Ø 35 mm
Measuring values	
	Spectral radiance
	Total luminance / total radiance
	Total illuminance / total irradiance
	Chromaticity coordinates x,y; u',v'
	Correlated color temperature
	Dominant wavelength, purity
	Color rendering index
Measuring ranges and accuracies	
Measuring range luminance	2 ... 1•10 ⁵ cd/m ²
Measuring range illuminance	20 ... 5•10 ⁵ lx
Luminance accuracy	± 5%
Luminance reproducibility	± 2%
Chromaticity accuracy	± 0.002 x, y (@ 2856°K)
Color reproducibility	± 0.0005 x, y
CCT reproducibility	± 20°K (@ 2856°K)
Technical data	
Interfaces	RS-232c, 8N1, 38,400 Baud or USB 1.1 full speed (12 Mbit/sec)
Dimensions	150 mm x 58 mm x 34 mm
Weight	300 g
Operating conditions	Temperature 10 ... 40°C Humidity < 85% relative humidity at 35°C
Power supply	Switching mode power supply, RS-232c version only
Accessories (included)	Operational instructions & Calibration certificate JETI Specbos Lighting software for Windows 98/2000/ XP/ NT (Version 5)
	Transport case
	RS-232c version: PC Serial cable (9-pin D connector)
	USB version: USB 1.1 A-B cable
NPL traceable calibration	One year recommended interval