

Spectroradiometer specbos 1100

specbos 1100 is an easy to use and economic spectroradiometer. Its miniaturized shape makes it suitable for laboratory as well as for industrial applications. The device can be used for the measurement of diffuse light sources, screens etc.



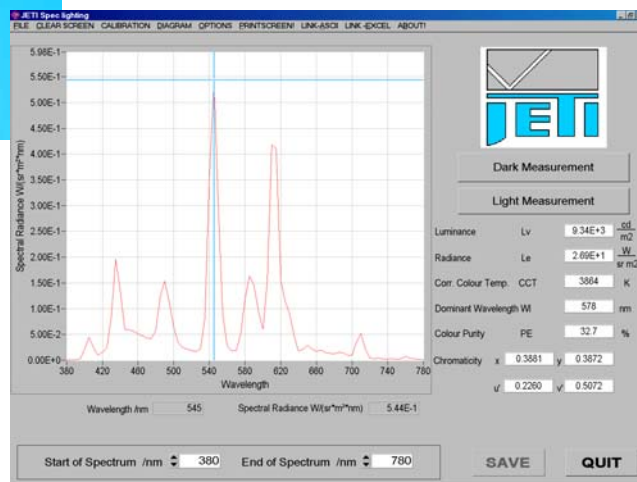
specbos 1100 is offered in two versions:

The USB version can easily be connected to an USB port of the PC and the measurement can be started immediately – a real plug & play solution. The device is bus powered.

The RS232 version is supplied with a PC cable and a power supply.

The instrument automatically detects the COM port. Thus problems during installation are avoided.

Measurement and analysis of data is performed using the JETI specbos lighting software for the PC. It calculates and presents the measuring results (chromaticity, color temperature, luminance, radiance spectrum, xy and u'v' diagrammes) as well as data export to Excel spread sheets and to ASCII files.



Screenshot of a F11 fluorescence lamp

Convince yourself. This new type of precision spectroradiometer is easy to handle, reliable and compact.

Specifications

Applications	measurement of diffuse light sources, screens etc.
Spectral range	380 nm ... 760 nm
Spectral resolution	9 nm
Digital spectral resolution	4.1 nm
Digital resolution	14 bit ADC
Wavelength accuracy	± 0.5 nm
Viewing angle	1.5 °
Measuring distance/ diameter	20 cm - Ø 5 mm; 100 cm - Ø 25 mm
Measuring values	Spectral radiance Total luminance / total radiance Chromaticity coordinates x,y; u',v' Correlated color temperature Dominant wavelength, purity Color rendering index
Measuring range luminance	2 ... 1 x·10 ⁵ cd/m ²
Luminance accuracy	± 5 %
Luminance reproducibility	± 2 %
Color chromaticity accuracy	± 0.002 x, y (@ 2856 K)
Color reproducibility	± 0.0005 x, y
CCT reproducibility	± 20 K (@ 2856 K)
Dispersive element	diffraction grating
Light receiving element	128 pixel photodiode array
Operating conditions	Temperature 10 ... 40 °C Humidity < 85 % relative humidity at 35 °C
Power supply	RS 232 version: 230 VAC (115 VAC optional)/ 9 VDC USB version: Hub powered
Interfaces	RS 232, 8N1, 38400 Bd or USB1.1 fullspeed (12Mbit/sec)
Dimensions	150 mm x 58 mm x 34 mm
Weight	300 g
Accessories (included)	Laser head-piece for adjustment purposes Operation instructions PC program JETI spec lighting for Windows 98/2000/ XP/ NT (only RS232) Transport box Calibration certificate RS232 version: Switch mode power supply Mainy PC cable USB version: USB cable
NPL traceable calibration	1year recommended interval

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