

Broadband Radiometer 350 ... 1000 nm

specbos 1211 is a broadband miniaturized and fast which can be used in laboratories as well as production enviroment to measure the following quantities:

- Luminance, Radiance
- Illuminance, Irradiance
- xy and u'v' coordinates, RGB values
- Dominate wavelength, color purity
- Correlated Color Temperature
- Color Rendering Index

Highlights:

- Wavelength range from VIS to NIR
- High sensitivity
- Radiance as well as Irradiance measuring modes
- Small and easy to use
- NIST traceable calibration
- Measurement also possible with DLLs or SCPI compatible commands

Additional features:

- Pass/ fail decisions
- Ranking function (up to 16 ranks)
- Saving of reference spectra
- Spectral calculations
- Data export in csv and xls files
- Switching between Si and Imperial units

Spectro.Radiometer Specbos 1211

Advantages:

- USB powered
- Very fast measurement
- Internal target spot laser (luminance measurement)
- Mechanical shutter for dark signal compensation
- Easy to install
- Start of measurement with external trigger signal

Examples for Applications are the following:

- Calibration of broadcast monitors
- Color adjustment of digital projectors
- Measurement of weighted spectra, e.g. to characterize hazardous radiation
- Measurement of fluorescence lamps
- Spectral measurements in goniometers
- Measurement of extended luminaires like OLEDs
- The instrument can be operated with the intuitive measuring software JETI LiValfor a demo version see www.jeti.com(or with one of the application specific programs).







Specifications

Optical parameters			
Spectral range	350 … 1000 nm		
Optical bandwidth	4.5 nm		
Wavelengths resolution	1 nm		
Digital electronic resolution	15 bit ADC		
Viewing angle	1.8° (luminance mode)		
Measuring distance/ diameter Measuring values	20 cm - Ø6 mm; 100 cm - Ø31 mm (
weasuring values	Spectral Radiance/ spectral Irradiane Luminance / total and weighted Radi		
	Illuminance / total and weighted Irrad		
	Chromaticity coordinates x,y; u',v'		
	Correlated Color Temperature, Color	r purity	
	CRI, CQS, RGB		
	Circadian metrics, Photosynthetically	/ Active Radiation	
Measuring ranges and accuracies			
Measuring range luminance	0.1 2 500 cd/m² (III. A)		
	0.1 1 800 cd/m ² (typical white LED))	
	(higher values with optional filter)		
Measuring range illuminance	2 … 20 000 lx (III. A) 2 … 15 000 lx (typical white LED)		
	(higher values with optional diffusor/	filter combination)	
Luminance accuracy	$\pm 2\%$ (@ 1 000 cd/m ² and ill. A)		
Luminance repeatability	$\pm 1 \%$ (@ 1 000 cd/m ² and ill. A)		
Chromaticity accuracy	±0.002 x, y (III. A)		
Color repeatability	±0.0005 x, y (III. Á)		
CCT repeatability	±20 K (III. A)		
Other technical data			
Dispersive element	Imaging grating (flat field)	(1 1)	
Light receiving element	Backthinned CCD array 2048 pixels	(binned)	
Power supply Interface	USB Hub powered USB 2.0 fullspeed, Bluetooth (specb	os 1211-BT)	
intendee	RS232 (specbos 1211-RS), LAN (sp		
Dimensions	180 mm x 82 mm x 53 mm		
Weight	450 g		
Operating conditions	Temperature 10 40 °C		
	Humidity < 85 % relative humidity at		
Accessories (included)	PC software JETI LiVal for Windows 7/ 8/ XP/ Vista		
	DLL, LabVIEW VI's		
	USB cable and trigger connector	(ramant)	
	Cosine diffusor (for irradiance measurement) Calibration certificate, operation instructions		
	Tripod, transport box		
Accessories (optional)	Netbook with installed software (for r	nobile applications)	
Filters, side view and fiber extended diffusors, add on			
	(see: www.jeti.com)	,	
Calibration	NIST traceable		
Recommended interval	1 year	light刘ll光傲	
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