# specbos 1211UV

Broadband Radiometer 230 ... 1000 nm

specbos 1211UV is a broadband miniaturized and fast spectroradiometer which can be used for spectral Radiance as well as spectral Irradiance measurements in the

wavelength range of 230 ... 1000 nm.

### Highlights:

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

# Software **JETI LiVal** (for a demo version see www.jeti.com):

- Intuitive operation
- Weighting the obtained spectrum with an action function
- Classification of samples
- Easy data export to Excel and CSV
- Automatic detection of attached accessories
- Specific calculations as PAR, circadian metrics and metamerism according to ISO 23603

#### 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



## 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



## **Optical parameters**

Spectral range Optical bandwidth Wavelengths resolution Digital electronic resolution

Viewing angle

Measuring distance/ diameter

Measuring values

230 ... 1000 nm

4.5 nm 1 nm

15 bit ADC

1.8° (luminance mode)

20 cm - Ø6 mm; 100 cm - Ø31 mm (luminance mode)

Spectral Radiance/ spectral Irradiance Luminance / total and weighted Radiance Illuminance / total and weighted Irradiance

Chromaticity coordinates x,y; u',v'

Correlated Color Temperature, Color purity

CRI, CQS, RGB

Circadian metrics, Photosynthetically Active Radiation

Measuring ranges and accuracies

Measuring range luminance

0.1 ... 7 500 cd/m<sup>2</sup> (III. A)

0.1 ... 4 500 cd/m<sup>2</sup> (typical white LED) (higher values with optional filter)

Measuring range illuminance

2 ... 60 000 lx (III. A)

2 ... 45 000 lx (typical white LED)

(higher values with optional diffusor/ filter combination)

±2 % (@ 100 cd/m<sup>2</sup> and ill. A) ±1 % (@ 100 cd/m² and ill. A)  $\pm 0.002 x, y (III. A)$ 

±0.0005 x, y (III. A) ±20 K (III. A)

Other technical data

Dispersive element

Color repeatability CCT repeatability

Luminance accuracy

Luminance repeatability Chromaticity accuracy

Imaging grating (flat field) Light receiving element

Backthinned CCD array 2048 pixels (binned)

Power supply **USB** Hub powered Interface USB 2.0 fullspeed

180 mm x 82 mm x 53 mm **Dimensions** 

Weight 450 a

Operating conditions Temperature 10 ... 40 °C

Humidity < 85 % relative humidity at 35 °C

PC software JETI LiVal for Windows 7/8/XP/ Vista Accessories (included)

DLL. JETI SDK

USB cable and trigger connector

Cosine diffusor (for irradiance measurement) Calibration certificate, operation instructions

Tripod, transport box

Filters, side view and fiber extended diffusors, add on optics Accessories (optional)

(see: www.jeti.com)

Calibration NIST traceable

Recommended interval 1 year



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