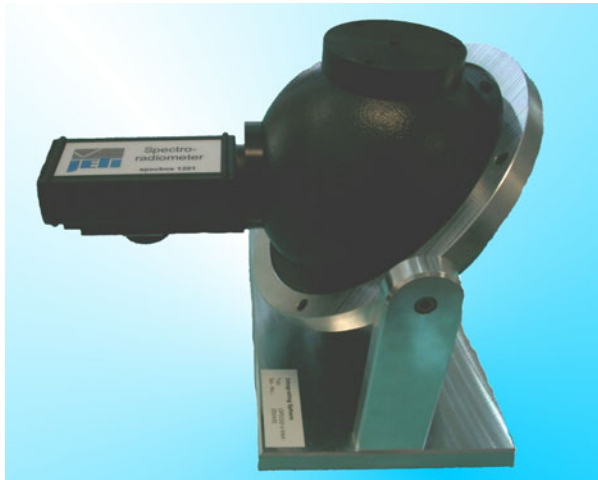




Spectroradiometer specbos 1301

specbos 1301 is a VIS spectroradiometer for the measurement of light sources in Radiant Flux mode, using an Integrating sphere.

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



Applications:

- Radiometric and colorimetric characterization of
 - LED
 - Miniature lamps
 - Fiber optic output

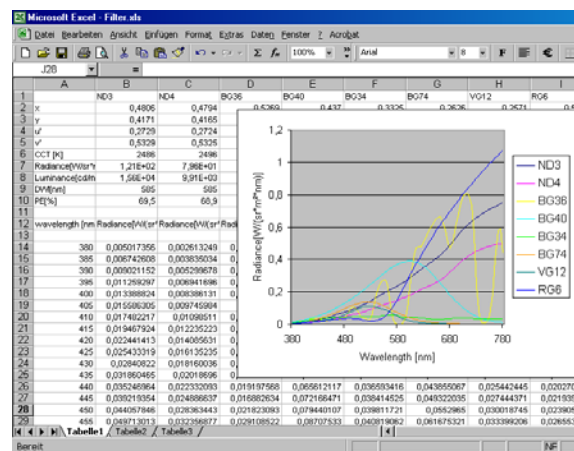
Advantages:

- USB powered – mobile! – no extra power supply
- Automatic determination of measuring time
- Excel spread sheets

Measuring values:

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

Integrating spheres of 50 ... 150mm diameter are available. A baffle avoids the inclusion of the first reflex to the measurement. Other sphere sizes and designs are possible.



Input port design will be adapted to user demands. Customer specific sample holders can be offered.

The basic measuring unit can also be used for radiance and irradiance 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 Flux Total Radiant Flux/ Luminous Flux Chromaticity coordinates x,y; u',v' Correlated Color Temperature Dominant wavelength, color purity Color Rendering Index |
| Measuring ranges and accuracies | |
| Measuring range Luminous Flux | 1 lm ... 4000 lm |
| Luminous Flux accuracy | depending from integrating sphere |
| Luminous Flux reproducibility | depending from integrating sphere |
| 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 | |
| Integrating sphere diameter | 50 ... 150 mm (others on request) |
| Interface | USB 2.0 fullspeed |
| Operating conditions | Temperature 10 ... 40 °C Humidity < 85 % relative humidity at 35 °C |
| Power supply | Hub powered |
| Accessories (included) | Integrating sphere Cosine diffusor (for irradiance measurement) PC software JETI LiMeS for Windows 2000/XP DLL, LabVIEW VI's Operation instructions Calibration certificate USB cable |
| NIST traceable calibration | Recommended interval: one year |

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