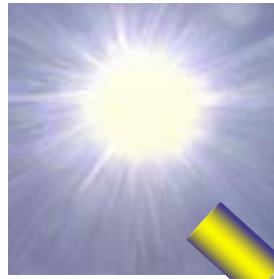


SPECTROMETER SYSTEM FOR OPTICAL RADIATION (LIGHT)

A very cost effective system for spectral measurements of optical radiation is shown below. The system is based upon use of an Ocean Optics "plug-in" spectrometer. The system will allow measurements of the spectral distribution of irradiance, illuminance, and other radiation quantities. Also, with appropriate input accessories, it can implement measurements of transmittance, reflectance, and other such spectral responses.

The system includes an Ocean Optics USB4000-VIS-NIR spectrometer, a fiber optic input cable with diffuser, and the SpectraSuite software program. The USB4000 spectrometer may be interfaced to a computer operating with Windows, Mac OS, or Linux. The USB4000 includes an analog to digital converter, so it interfaces directly to the computer. The fiber optic line enables easy observation of the optical signal. SpectraSuite software provides data acquisition and radiation calculation routines.



Basic system:

The USB4000 spectrometer interfaces directly with an operating computer



A fiber optic line with a CC3 or equivalent diffuser brings the optical signal to the spectrometer. For small targets, a collimating lens, 74-ACR, may be needed



Computer (supplied by user)

Basic system for irradiance measurements includes:

- USB4000-VIS-NIR spectrometer .. US\$ 2,887.
- CC3 Cosine Corrector (diffuser)115.
- P400-2-VIS/NIR fiber optic line138.
- SpectraSuite software 199.

Total user price for system: US\$ 3,339.

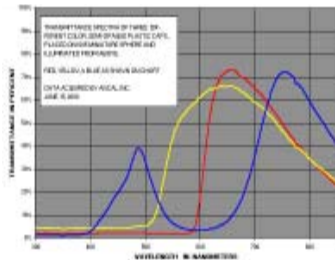
As a supplemental input device to the CC-3:
74-ACR Collimating Lens 230.

For radiometric calibration of the system:
LS-1-CAL Calibrating light source 866.

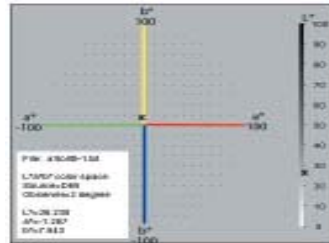
Specifications and prices subject to change without notice. Valid July 15th, 2008

Examples of measurements that may be made:

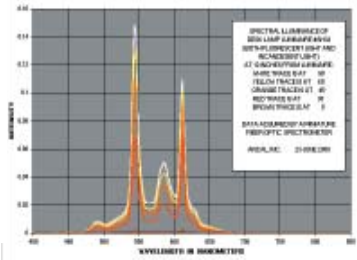
Spectral reflectance & transmittance



Color space & color temperature



Distribution around a luminaire



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