OPTRONIC®
LABORATORIES

PRODUCT OVERVIEW

GENERAL CAPABILITIES

- Standard Light Sources
- Integrating Spheres
- Detectors (200nm -30 µm)
- Radiometers, Photometers and Spectroradiometers

ABOUT OPTRONIC LABORATORIES

In 1970, Optronic Laboratories was established as an optical radiation instrumentation, standards, and calibration laboratory. Forming the nucleus of the company were two former NIST *(National Institute of Standards and Technology)* physicists, who had individually made significant contributions to the fields of spectroradiometry and electro-optical technology. The company was established to eliminate a void that existed in the area of optical radiation standards, calibration services, and measurement instrumentation for industry, government/military, and academia.

PRODUCT SUMMARY

Standards

Integrating sphere standards designed for accurate instrument calibration (photometric, radiometric, or spectroradiometric response) with a manual and motorized, computer-controlled variable apertures. High-Accuracy Irradiance Standards based on the NIST Spectral Irradiance scale. Specular and diffuse reflectance standards used in bi-directional reflectance distribution factor (BRDF) applications, and as a target for irradiance to radiance conversion.

Detectors

Include Photomultiplier, Silicon, Germanium, InGaAs, Lead Sulfide, Lead Selenide, InSb, HgCdTe and Pyroelectric.

Integrating Spheres

Spheres available in a range of sizes, as well as a multitude of baffle and port configurations, to meet any source or input optic requirement. Sphere coatings for applications in the UV through IR wavelength ranges are available.

Radiometers and Photometers

- OL 731 – Portable and cost effective OEM solution, available with a wide variety of accessories. Calibration factors may be stored to provide direct readout in any radiometric or photometric unit.

Scanning Spectroradiometers

- OL 750 – Performs source analysis (irradiance or radiance), transmittance, specular reflectance, diffuse reflectance, and detector response measurements. Entirely computer controlled. Spectral range of 0.20µm – 30µm (depending on model).
- OL 756 – High-speed USB interface, auto-ranging PMT signal acquisition system. Built-in overload feature to protect the highly sensitive PMT cathode from saturation. Extremely low stray light levels. Spectral range of 200nm – 800nm.
- OL 750-NVG – Complete turnkey NVIS spectroradiometer system for spectroradiometric and photometric certification of night vision compatible lighting devices, which exceeds the requirements of MIL-L-85762A, Spectral range from 380 to 930 nm.

Multi-Channel Spectroradiometers

- OL 770 LED (LED Measurement) Series – Fully compliant with CIE 127. Ability to create custom Word and Excel report templates. High-speed USB interface. Wavelength accuracy of 0.5 nm. Spectral range of 200nm – 800nm.
- OL 770 DMS (Display Measurement) Series – Gives accurate color, luminance and spectral information of displays. Picture of measurement area provided and may be stored with data. Custom FOVs available. Spectral range of 200nm – 800nm.

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