

September 1, 2005

Spectroradiometer Model SPR-03

Luzchem sells spectroradiometers for a wide range of applications, including photobiology research, drug photostability testing, environmental dosimetry and curing applications. Our NIST-traceable instruments provide information in the 200-1100 nm region. They are based on a 4096 element diode array detector, an integrating acquisition element with fiber optic connectivity, and easy to use LabVIEW based software, including spectral manipulation and integration and timed acquisition. A built-in verification lamp allows for rapid end-user check of the wavelength calibration. Computer control is operated through a USB port. A powerful and affordable tool wherever spectral power distribution measurements are needed.

Preliminary specifications:

| | |
|--------------------|---|
| Spectral range | 235-1050 nm |
| Power requirements | 4 x AA Batteries |
| Interface | USB |
| Detector | 4096 element CCD detector with 600 lines/mm grating blazed at 400 nm, including order sorting filter, input slit and SMA coupling |
| Data output | At 1 nm intervals |
| Data logging | From seconds to days, acquire and save data at user-selectable intervals |
| Data export | Tab separated ASCII, fully compatible with Excel and other graphical and spread sheet programs |
| Integration time | User selectable – 1 milliseconds to 60 seconds |
| Resolution | Approximately 1 nm |
| Measurement units | mW/m ² /nm, or raw intensity data |
| Display | Data displayed in mW/m ² /nm over the instrument spectral range, and in 5 windows: UVC, UVB, UVA, Visible and user-selected window |
| Verification lamp | Low pressure mercury lamp allows rapid verification of spectral calibration |
| Dimensions | Detector Head: 2.25 x 2.25 x 1.5 (inches) Base Unit: 7.5 x 5.5 x 3.0 (inches) |
| Weight | 2 lbs |

Luzchem Research, Inc.

Toll free 1-800-397-0977
Phone: (613) 749-2442
Fax: (613) 749-2393
E-mail: sales@luzchem.com

5509 Canotek Road, Unit 12
Ottawa, Ontario
Canada K1J 9J9
www.luzchem.com