InternationalLight
NIST Traceable Light Measurement Systems

RPS900
Wideband Spectroradiometer

The RPS900 is designed to function equally well in research, industrial, and field environments. It includes real-time graphic display software with precision peak wavelength finding tools. Measurements can be manual, time scheduled, or externally triggered. It also has the ability to do FFT smoothing, color analysis, time averaging, and data handling. Exports data to text, Excel®, grams/32, and SPC formats.

Applications include characterization and diagnosis of UV curing systems, photostability testing, accelerated weathering, solar simulation, photobiology and photochemistry, LED illumination and color analysis.

It can be coupled to a variety of IL input accessories, including integrating spheres and LED test fixtures.

RPS900-R (standard): Rugged, die-cast aluminum housing. Dustproof & shock resistant. Fibre optic input. 8.5 x 4.75 x 1.5 inch. 2.24 lbs. **Order part #: RPS900**

RPS900-W (option): NEMA4 & IEC IP67 rated waterproof housing. Fibre optic input. 4.3 x 7.9 x 2.4 inches. 3.19 lbs. **Order part #: RPS900-W**

RPS900-C (option): Die-cast aluminum housing. Quartz cosine receptor input. 6.3 x 6.3 x 1.2 inches. 1.84 lbs. **Order part #: RPS900-C**

- **NIST-Traceable Spectroradiometer measures from 220 to 1050 nm at 1 nm resolution**
- **Spectral sensitivity better than:**
  - **Visible:** 0.005 uW/cm^2/nm
  - **UV/NIR:** 0.1 uW/cm^2/nm
- **Stray light rejection:** better than 10^{-3}
- **Repeatability:** Intrinsically better than 0.5%
- **Max irradiance in standard configuration:** 1 - 10 W/cm^2/nm
- **Peak sensitivity:** 10^{-9} W/cm^2/nm
- **Spectral accuracy:** 0.5 nm
- **Temperature range:** 15 - 40°C
- **USB 2.0 interface, powered by USB connection**
- **2048 element CCD with proprietary order-sorting filtration**
- **16-bit conversion resolves low-level spectra on large backgrounds**
- **Capture time better than 25 msec, integration time user selectable to 30 seconds**
- **Software controlled or externally triggered**
- **2 m long x 1 mm diameter optical fibre input with quartz cosine receptor**
- **Requires:** Windows 98, 2000, XP, Pentium II 300 MHz or better
- **Available in three options**

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