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SpectraRad™ Xpress



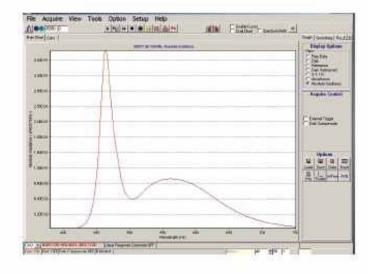
The SpectraRad™ Xpress is a miniature Spectral Irradiance Meter designed for field, industrial, and lab applications with a plug-and-play USB 2.0 interface. A transmissive cosine corrector is coupled to a spectrometer which then is irradiance calibrated against a NIST traceable tungsten light source. Optimized software is provided for characterization and measurement of many application lighting devices Standard software features include and systems. timeline recording, data smoothing, illuminance (lux), chromaticity, color temperature, external triggered pulsed light capturing, and other data handling functions. The SpectraRad™ Xpress is ideal for lamp and LED characterization (requires input optic option). and color analysis, solar studies, photostability testing, photobiology and photochemistry.

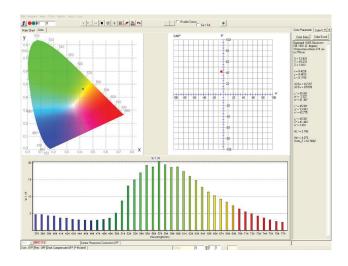
Applications:

- Illumination and Color Rendering from Lighting
- Solar Irradiance Monitoring (outdoors)
- Solar Simulator Validation (indoors)
- **UV** Curing System QC
- LED Characterization

Highlights:

- Spectral Range: 380-750 nm, 350-1050 nm
- Spectral Resolution: ~4.0 nm
- Input Optics: Transmissive Cosine Corector (default)
- CIE 127 Compliant Adaptor (ADP-CIE127 option)
- **NIST Traceable Calibration**
- Wavelength Accuracy: better than 0.3 nm
- Irradiance Range: 100 nW/cm²/nm 1 mW/cm²/nm (with 350-1050 nm version) 200 nW/cm²/nm - 2 mW/cm²/nm (with 380-750 nm version)

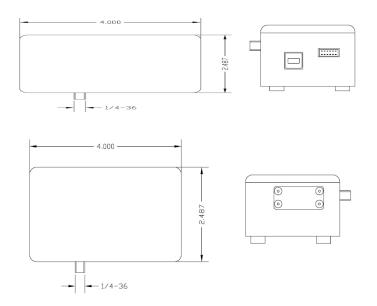




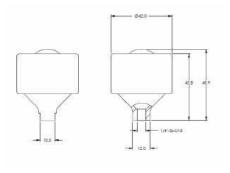
Specifications:

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Power Input	USB at < 350mA
Detector Type	Response enhanced 2048 element linear silicon CCD array
Detector Pixel Format	2048 x 1 elements @ 14μm x 200μm per element
Spectrograph F#	3.0
Spectrograph Optical Layout	Crossed Czerny-Turner
Dynamic Range	275 typical
Digitizer Resolution	16-bit or 65,535:1
Readout Speed	500 kHz
Data Transfer Speed	Up to 180 spectra per second via USB 2.0
Data Transfer Speed Effective Integration Time	Up to 180 spectra per second via USB 2.0 1 to >=20,000 ms
Effective Integration Time	1 to >=20,000 ms
Effective Integration Time External Trigger Operating	1 to >=20,000 ms Aux Port
Effective Integration Time External Trigger Operating Temperature	1 to >=20,000 ms Aux Port 15°C - 35°C
Effective Integration Time External Trigger Operating Temperature Relative Humidity	1 to >=20,000 ms Aux Port 15°C - 35°C 0 - 85% RH non condensing
Effective Integration Time External Trigger Operating Temperature Relative Humidity Weight	1 to >=20,000 ms Aux Port 15°C - 35°C 0 - 85% RH non condensing ~0.23 kg (0.5 lbs)

Dimensions (inches):



Dimensions (mm):



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