

DSE-2000A Series UV Radiometer/Photometers

DSE-2000 SERIES UV RADIOMETER/PHOTOMETERS

Featuring advanced readout unit with interchangeable sensors!

- Upgraded UV sensor components
- Shockproof and water-resistant
- Exceptional overall accuracy
- Ideal for NDT and QC inspections
- Comply with MIL and ASTM standards

Versatile! Accurate! Affordable!

Unsurpassed accuracy

Each component is designed to yield maximum accuracy. Readout unit offers advanced electronic circuitry and auto-zeroing feature. Pyroelectric/photometric calibration of sensors provides superior linearity, excellent signal-to-noise ratio and controlled spectral response.

Extended sensor life

Rugged, silicon photodiode is sealed and fixed in a metal/quartz package to protect against adverse effects of shock and humidity, eliminating the possibility of photodiode fracture. As a result, the sensors last longer.

Cost effective

Eliminates the need for two separate meters. Simply choose the sensor you want, plug it into the readout unit and set the wavelength selector switch to measure either black light or visible light.

Convenient

Sleek design, high-visibility digital display and dual-measuring capability using interchangeable sensors make the DSE-2000 Series radiometer/photometer systems exceedingly easy to use.

Other features include:

- Liquid-resistant sensor housing prevents moisture contamination
- UV sensor utilizes well-defined bandpass interference filter to ensure accurate intensity measurements
- Calibration upgrade — 365nm calibration light source utilizes an improved cooling system and a more collimated light profile



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Readout Unit Specifications	
Display	4 1/2 digit LED 3 1/2 digit LED for visible light
Conversion Rate	3 readings per second nominal
Resolution	1 part in 1,999
Temperature Coefficient	±(0.025% of reading +0.1 digit) /°C (0 to 50°C)
Case Dimensions	7 1/4L x 3 1/2W x 2"H (18.4L x 8.9W x 5.1cmH)
Total Net Weight	1 lb. (0.45kg)

Sensor Head Specifications	
Overall Accuracy	Better than ±5% with reference to NIST standards
Spectral Ranges	Black light: 320-400 nanometers (nm) Visible light: 380-760nm
Filters	Black light: High quality, vacuum-deposited, interference type Visible light: color band pass filter*
Angular Response	Cosine
Temperature Coefficient	±0.20%/°C (0 to 50°C)
Power Requirements	4 non-rechargeable "AA" size, 1.5 volt alkaline battery cells are included as standard 4 rechargeable "AA" size, 1.25 volt nicad battery cells and a recharger are available as an option
Reference Conditions	Temperature: 23°C ±1°C Relative Humidity: 30 to 60% Atmospheric Pressure: 575 to 800mm Hg to 7,500 ft. (2,286m) altitude
Sensor Head Dimensions	3L x 2W x 0.7"H (7.6L x 5.1W x 1.8cmH)
Sensor Cord Length	4 ft. (1.2m)



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