

For over 35 years, OAI is a world

leader in UV Measurement

Instruments and Precision Equipment

Model 308 UV Intensity Meter

OAI Model 308 UV Intensity Meter: Dependable and Repeatable.

The OAI Model 308 UV Intensity Meter is a dependable instrument designed for measuring UV light intensity. Perfect for a wide variety of industries and applications, the Model 308 is designed for any situation where precise reliable UV measurements are required. The Model 308 features detachable probes for use in UVA, UVB, and UVC ranges. A high speed serial port for data logging is included.

Accuracy of the meter is within +/- 3% and is NIST traceable. This easy to use meter is both auto ranging and linear from 0.1 to 19,999 milliwatts/cm². Other features of the battery operated Model 308 are: an easy to read LCD display which consumes very little power, a peak hold switch which enables the user to capture and maintain the maximum intensity reached during an exposure, and a hold mode which allows one to retain the current reading. The meter is both ROHS and CE compliant. OAI calibrates and services their UV meters.

Detachable Probes Matched to Specific Spectral Regions

The Model 308 Intensity Meter is available with a family of calibrated detachable probes having spectral responses peaked in the UVA Range (365, 380, 400, 420, 436, and 540nm), the UVB Range (310 nm) and UVC Range (220, 253.7, and 260 nm). Each detachable probe employs an ultra-stable silicon detector and special filters that precisely shape the spectral response. For ease of use, probes are calibrated for direct reading without additional adjustment and give repeatable results on any 308 meter. Standard probes are available up to 1,999 milliwatts/cm². High intensity probes are available from 2,000 to 19,999 mw/cm².

High Speed Port for Data Logging and Software Available

Optional data logging software is available from OAI to use with the high speed serial data port. This software package allows the user to download data to a computer and record intensity, mode, time, wavelength, serial numbers of the probe and meter, and date for calibration. Data can be saved and further analyzed using an Excel program



Special features

- RoHS and CE Compliant
- Detachable single or dual wavelength probes
- Auto ranging, digital display
- Light intensity measured in milliwatts/cm²
- Accuracy is traceable to NIST
- High speed port available for data logging
- Optional data logging software

OAI

Model 308 Intensity Meter

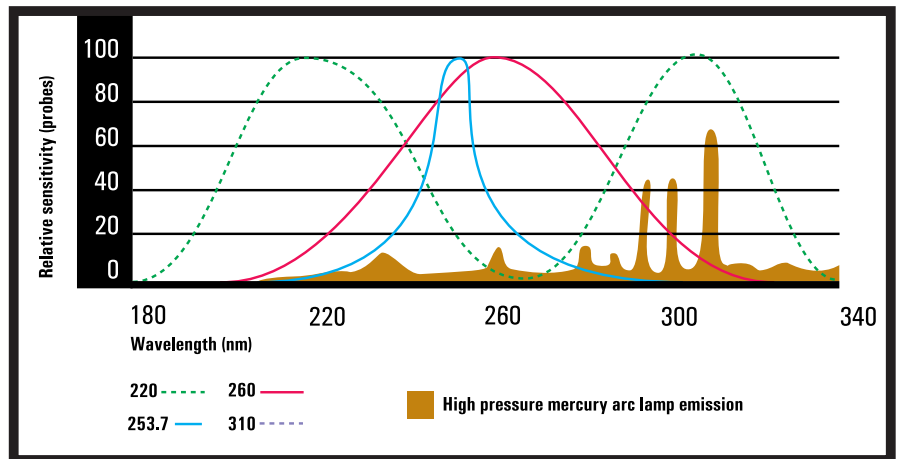
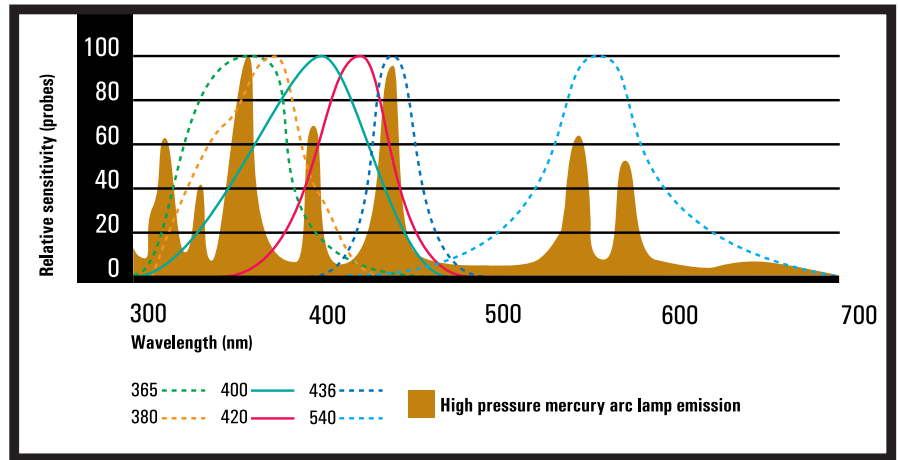
Relative Accuracy 275-2000 mw/cm ² range	±(.042% of reading +.450 mw/cm ²)*
Relative Accuracy 0-275 mw/cm ² range	±(.089% of reading +.0545 mw/cm ²)*
Linearity 0-275 mw/cm ² range	±(.002% of reading +.0297 mw/cm ²)
Linearity 275 - 2000 mw/cm ² range	±.300 mw/cm ²
Display Range	0.1-19,999
Power	9V battery (1)
Dimensions	4.4"w x 7.7"h x 1.25"d
Weight	10 oz. (approx.)
Meter + Probe Accuracy	±3%

Detachable 2w/cm² Probes

Relative Accuracy	±2.5% of OAI standards*
Responses	<i>Choice of OAI standard probes</i> Deep UV 220nm Deep UV 253.7nm Deep UV 260nm Deep UV 310nm Near UV 365nm Near UV 380nm Near UV 400nm Near UV 420nm Near UV 436nm Near UV 540nm
Sensor Material	Silicon (UV enhanced)
Filter	Multi-layer or dielectric filter absorption glass
Dimensions	1.75" diameter x 0.63" thick
Weight	3 oz. (approx.)
Cable Length	4 ft.
Probes over 2 w/cm²	Contact OAI for more information

*NIST Traceable

The Model 308 features a detachable probe which contains a UV enhanced silicon sensor and filter module. The computer designed filter provides a shaped spectral response corresponding to commonly used applications, as shown in the following Standard Probe Response Spectral Curves. The spectral output distribution of the high pressure mercury arc lamp is shown by the shaded curves. Relative strengths of spectral peaks are indicated. Superimposed are response curves of the available OAI probes. These are designed to closely match the responses of various sectors of the high pressure mercury arc emission curve. The user can select the probe with a spectral response that is the best fit for the response curve of the measurement desired. Custom probes with other desired response curves are available.



685 River Oaks Parkway • San Jose, CA 95134
 Phone (408) 232-0600 • Toll free (800) 843-8259
 Fax (408) 433-9904 • sales@oainet.com
www.oainet.com