

For over 40 years, OAI is a world

leader in UV Measurement

Instruments and Precision Equipment

Model 308 UV Light Meter



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 UV Light Meter: Dependable & Repeatable

The OAI Model 308 UV Light 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 is a hand held UV intensity light meter which features detachable probes for use in the UVA, UVB, and UVC ranges. A high speed serial port for data logging is offered as an option.

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 with the appropriate probes. 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. Also available is the High Intensity, High Temperature 308 UV Light Meter for high temperature environments and curing. OAI calibrates and services their UV meters world wide.

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 up to 7,500 mw/cm².

High Speed Port for Data Logging & Software Available

Optional data logging software is available 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, wave length, serial numbers of the probe and meter, and date for calibration. Data can be saved and further analyzed using an Excel program.



Relative Accuracy - Model 308

0-275 mw/cm² range $\pm(.089\%$ of reading + .0545 mw/cm²)*
 275-2000 mw/cm² range $\pm(.042\%$ of reading + .450 mw/cm²)*

Relative Accuracy - Model 308T High Intensity

0-1030 mw/cm² range $\pm(.089$ of reading + .20427 mw/cm²)
 1031-7500 mw/cm² range $\pm(.042$ of reading + 1.6875 mw/cm²)

Linearity - Model 308

0-275 mw/cm² range $\pm(.002\%$ of reading + .0297 mw/cm²)
 275 - 2000 mw/cm² range $\pm.300$ mw/cm²

Linearity - Model 308T High Intensity

0- 1030 mw/cm² range $\pm(.002$ of reading + .11142 mw cm²)
 1031-7500 mw/cm² range $\pm(1.125$ mw/cm²)

Display Range Model 308 0.1-1,999

Display Range Model 308T 0.1-7,500

Power 9V battery (1)

Dimensions 4.4"w x 7.7"h x 1.25"d

Weight 10 oz. (approx.)

Meter + Probe Accuracy $\pm 3\%$

Detachable 2w/cm² Probes for Model 308

Relative Accuracy $\pm 2.5\%$ of OAI standards*

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.

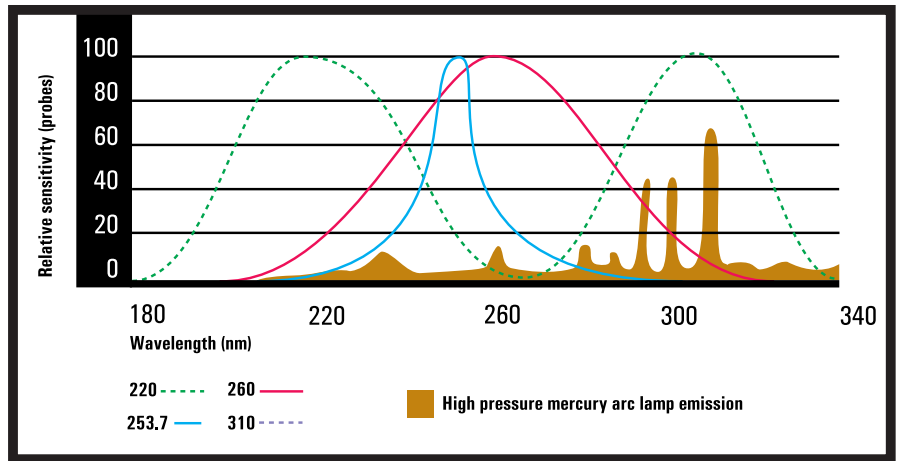
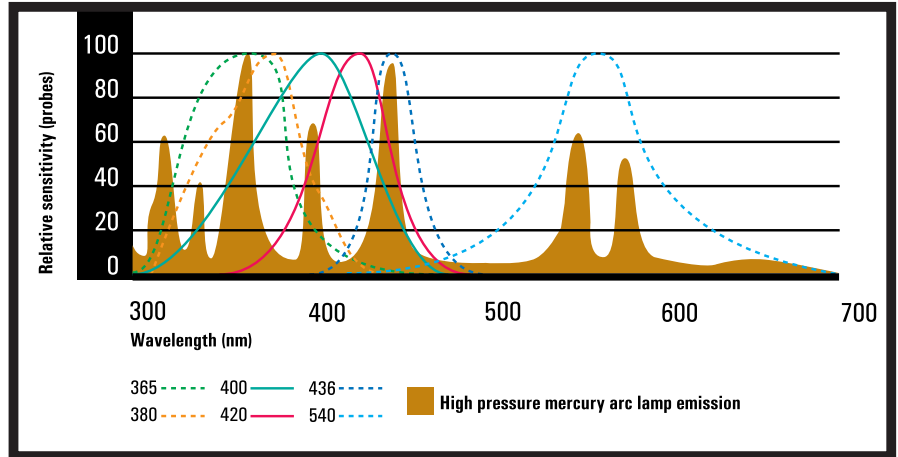
Probes over 2 w/cm² Contact OAI for information

*NIST Traceable

Detachable probes for Model 308T

High Intensity same as above plus:

- Internal temperature accuracy $\pm 2.4^\circ\text{C}$ for $0^\circ\text{-}100^\circ\text{C}$.
- Temperature resolution 0.1°C



Probe Responses: Model 308 and Model 308T

Choice of OAI standard probes

- 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



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