

# LOCTITE®

cureUV.com

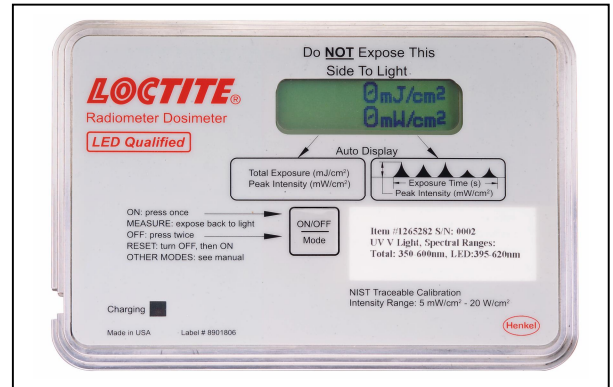
## Product Description Sheet UV-V Radiometer Dosimeter

Part # 1265282

North American Engineering Center, April 2010

### PRODUCT DESCRIPTION

The Loctite® UV-V Radiometer Dosimeter is an industry first for measurement of LED Light Curing devices. The flat response curve makes this radiometer uniquely qualified to measure narrow band wavelengths of LED Light Curing devices. The Radiometer Dosimeter can also be used with Curing Chambers, Conveyors, and Flood lamps. This unit combines the all-in-one exposure, intensity measurement, and profile memory capability into one device.



### PRODUCT FEATURES

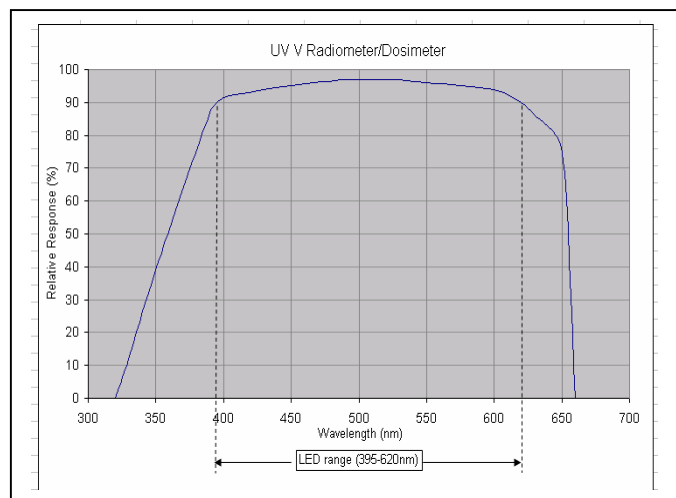
- Solid-state detector and ultra-stable amplifier technology to give lower noise, greater speed, and higher accuracy.
- Digital display of peak intensity and total exposure.
- Graphical display of intensity vs. time.
- Baseline profile reference plot allows on-the-spot comparison of the current performance of the curing unit with the base line.
- Built-in rechargeable batteries with charger included.



Example of graphical display of irradiance vs. time

### Technical Data

- Spectral measurement ranges:
  - Total Range: 350 – 660 nm.
  - LED Range: 395 – 620 nm.
- Intensity dose range: 5 mW/cm sq. to 20 W/cm sq.
- Temperature range: 10 – 50 Deg. C. (50 – 122 Deg. F.)
- Accuracy: Typically better than 6%
- Digital display: 4 significant digits
- NIST Traceable Calibration
- Dimensions: 160 mm W x 112 mm D x 12 mm H
- Recommended calibration once every 12 months after unit is put into service.



LED range: 395 – 620 nm

NOT FOR PRODUCT SPECIFICATIONS

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### Radiometer Dosimeter includes

- Instruction Sheet # 8901810
- AC Charger Adapter
- Carry Case
- Calibration Certificate

### Optional Accessories (not included):

These Adapter / Filters allow for proper positioning of the UV Source (LED Spot Cure units or Visible Light curing units) for both height offset and centering onto the Radiometer Dosimeter so they are in the same position on the meter for every test measurement.

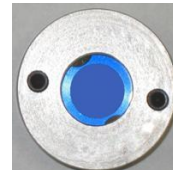
- 1403401 – adapter for 405 CureJet Head 976420 and Indigo CureJet Head 976418
- 1403405 – adapter for 7700, 7703, 7700-HD, and 7703-HD LEDs
- 1403403 – adapter / filter for Visible Arc Lamps. This also includes a band-pass filter to limit the upper end of the wavelength being measured to 520 nm. Loctite brand visible-cure adhesives react to wavelengths that are below 520 nm; therefore this adapter / filter will allow only the necessary wavelengths needed for curing to be measured. Intensity wavelengths above 520 nm are irrelevant to the curing process and need not be measured or included in the graphical display on the Dosimeter.



Adapter #1403401



Adapter #1403405



Adapter #1403403

