

## EIT<sup>®</sup> SPOTCURE<sup>®</sup> UV INTENSITY METER



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The EIT SpotCure UV Intensity Meter is an easy, portable, effective method of quantifying UV output in spot systems. It is the standard to which small area and spot curing processes are established, validated and verified. The SpotCure can also be used to evaluate different equipment.

In a production environment, the EIT Spotcure can be used to:

- Monitor UV spot curing system performance
- Measure individual UV lamp performance
- Measure light guide degradation and/or contamination
- Optimize light guide positioning
- Meet quality requirements

The SpotCure is:

- Compact in size and easy to use
- Portable and an electro-optic based instrument
- Self-contained without having to manage cords and/or connector cables
- Battery powered with a long lasting battery (> 100,000 readings)
- Able to accept multiple light guide sizes with the three included adaptors

The EIT SpotCure UV Intensity Meter is designed to provide the operator with instant feedback on the performance of the spot curing system.

Its compact, flashlight-like shape (4.60" long by 1.74" diameter) can comfortably be gripped in one hand. The measurement head which contains the optics, is attached to one end of the cylindrical instrument. Light guide adaptors that fit into the measurement head are available to fit most size light guides.

The Standard Range supports intensities up to 20W/cm<sup>2</sup> and the Extended Range supports intensities up to 100W/cm<sup>2</sup>

## Operation

The instrument is gripped in one hand while the light guide is inserted with the other hand. Once a spot curing system's light wand is inserted into the measurement head, the "START" switch is depressed and a measurement is taken. When the "START" switch is released, the measurement is frozen and can be viewed on the LDC display. It will be held for approximately 3 minutes until the display times out or until the "START" switch is depressed again. Adapters insert into the measurement head to accommodate the standard light wands on the market. This flexibility allows the instrument to be used in a variety of monitoring applications.

Short, simple operation instructions are printed on the outside of the instrument. The EIT SpotCure UV Intensity meter is designed to withstand the rugged UV environment and extremely high intensities that can be associated with UV spot curing.

## SpotCure Product Specifications

Feature	Description
UVA Spectral Response	320-390 nm
Intensity Ranges	Standard Version: 0-19.99 W/cm <sup>2</sup> (EIT Part Number: SP1-365-EIT) Extended Range Version: 0-99.9 W/cm <sup>2</sup> (EIT Part Number: SP1-365-EIT-ER)
Resolution	Standard Version: 10mW/cm <sup>2</sup> / Extended Range Version: 100 mW/cm <sup>2</sup>
Accuracy	+/- 10%; +/- 5% typical plus ±0.3% of full scale
Operating Temperature	0-70°C
Display	3½ digit LCD
Display Time	Approximately 3 minutes
Power Source	Lithium battery stick Please contact EIT for further information on the battery test results
Battery Life	12,500 hours of continuous operation (over 100,000 readings)
Dimensions	Overall: 6.40" L x 1.74" Diameter (16.26 x 4.42 cm) Measurement Head: 2.13" Diameter (5.41 cm)
Weight	12.8 oz. (358 grams)
Materials	Aluminum, polyester, quartz
Supplied with	NIST traceable calibration certificate Carry Case and Quick Guide Instructions Three light guide adapters (5, 7, 10 mm)

*Designed and manufactured in the USA/Specifications are subject to without notice*

## ABOUT EIT LLC

Founded in 1977, EIT provides contract electronic manufacturing & engineering services for medical, industrial, analytical instrument, telecommunications and aerospace customers from multiple facilities in Virginia and New Hampshire. EIT LLC designs, manufactures, sells, supports and services EIT radiometers and on-line measurement systems for industrial UV curing applications. EIT UV products have been sold since 1986 and are available for UV LED and Broadband (mercury) arc, microwave and spot sources.

*For more information contact :*

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