

UV-Spot Curing Intensity Meter 5-10

- + **UV-intensity mW/cm^2**
- + **compact size**
- + **portable**
- + **light-weight**
- + **multiple adaptors available**



The UV-Spot Curing intensity Meter 5-10 is a high quality electro-optic UV measuring instrument. It is self-contained, battery-operated, portable, light-weight and easy to handle. It is specially designed to measure and display peak UV intensity emitted by UV spot curing systems in order to evaluate system performance.

The measurement head which contains the optics is attached to the lower end of the torch-like instrument. Light guide adapters which fit into the measurement head are available from 5 to 10 mm to fit most light guides. The UV-Spot Curing intensity Meter 5-10 is available in various UV-bands. This flexibility allows the instrument to be used in a variety of monitoring applications. In the basic version it is equipped with one UV sensor for the measuring of:

Full UV spectral area 230 – 400 nm

With the increasing employment of the UV spot curing technology, it has become necessary to establish a method of measuring system performance. Degradation of UV lamps, light guides, and reflectors can cause decreases in irradiance and create curing problems. The UV-Spot Curing intensity Meter 5-10 is the right answer and an effective method of quantifying UV output. It provides the operator with instant feedback as to the performance of his spot curing system.

A 9 V battery block ensures extremely long life in excess of 100,000 readings.

The tip of the light guide is simply inserted into the opening of the UV-Spot Curing intensity Meter 5-10 using the proper adaptor. The measurement can then be viewed on the LCD display.

It can monitor UV intensities up to $9,990 mW/cm^2$

The UV-Spot Curing intensity Meter 5-10 is available in five different measuring ranges:

(Please state upon order)

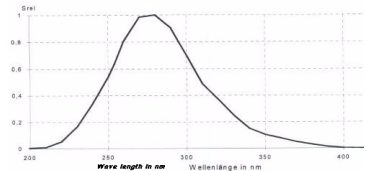
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|---|-------------------------|
| Item 25.1.1 UV-Spot Cure, Type 1 UV-V (Diazo) | 350 – 460 nm |
| Item 25.1.2 UV-Spot Cure, Type 2 UV-A | 315 – 410 nm |
| Item 25.1.3 UV-Spot Cure, Type 3 UV | 230 – 400 nm (Standard) |
| Item 25.1.4 UV-Spot Cure, Type 4 UV-B | 280 – 315 nm |
| Item 25.1.5 UV-Spot Cure, Type 5 UV-C | 230 – 280 nm |

UV-Spot Curing Intensity Meter 5-10

Technical Data:

| | |
|------------------------|--|
| Spectral range: | UV 250 – 410 nm (Standard) |
| Max. Power Input | 0 to 9,990 mW/cm ² |
| Display: | LCD, 3 digits X 10 |
| Display range: | 0 to 9,990 |
| Measuring range: | 0 to 9,990 mW/cm ² |
| Power source: | 9 V Block Battery |
| Power consumption: | 20 μ A |
| Battery service life: | 2,000 hrs (100.000 Measurements) |
| Dimensions: | 6.25" (158 mm) x 1.6" (40 mm) x 1.3" (34 mm) |
| Weight: | approx. 4 ounce (100 g) |
| Enter size: | adaptors from \varnothing 3 to 10 mm |
| Operating temperature: | 0 to 122° F / 0 to 50° C |
| Base Accuracy: | \pm 5 % |

Standard spectral range 230-400 nm, with a peak at 280 nm.



The temperature of the housing should not exceed 122° F / 50° C.

Because of uneven radiation distribution of the UV light source and different type of construction of the measuring devices by different manufacturers, different readings may appear under the same measurement conditions.

Calibration:

In order to keep its full function and precision it is recommended to have re-calibration done once per year. Re-calibration will also be necessary after change of battery. PTB traceable calibration with certificate