

## UV-Probe Light Guide Silver SMA

- + UV-intensity  $mW/cm^2$
- + high/low intensity
- + compact size
- + portable
- + light-weight
- + re-chargeable accu-cells with charger
- + 80" (2m) flexible light guide with SMA plug



The UV-Probe Light Guide Silver 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 in hard accessible curing chambers such as e.g. narrow web presses in order to evaluate system performance. The measurement head which contains the optics is attached to the upper end of the instrument. To take a measuring the flexible light guide of approx. 80" (2m) is connected to an SMA socket which is fixed installed in the lamp housing.

The UV-Probe Light Guide Silver SMA is available in six different UV-bands. In the basic version it is equipped with one UV sensor for the measuring of:

### Full UV spectral area 230 – 410 nm

With the increasing employment of narrow web presses and flexo print 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-Probe Light Guide Silver 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 UV curing system.

In order to save battery energy, the UV-Probe Light Guide Silver will turn off automatically after one minute.

After the flexible light guide has been connected to the SMA socket at the lamp the measurement can then be viewed directly on the LCD display.

It features a switch over from high and low power input and can monitor UV intensities up to  $1,999 mW/cm^2$

The UV-Probe Light Guide Silver is available in the following measuring ranges:  
(Please state upon order)

21.2.1. UV-Probe Light Guide Silver, Diazo	350 – 460 nm
21.2.2. UV-Probe Light Guide Silver, UV-A	315 – 410 nm
21.2.3. UV-Probe Light Guide Silver, UV-B	280 – 315 nm
21.2.4. UV-Probe Light Guide Silver, UV-C	230 – 280 nm
21.2.5. UV-Probe Light Guide Silver, Full UV	230 – 410 nm
21.2.6. UV-Probe Light Guide Silver, UV-V	395 – 445 nm



Subject to change without prior notice © 2014-01

UV-DESIGN (Office)  
Triebstrasse 3  
63636 Brachtal  
GERMANY  
Tel.: +49 (0)6053 619824  
Fax: +49 (0)6053 619820

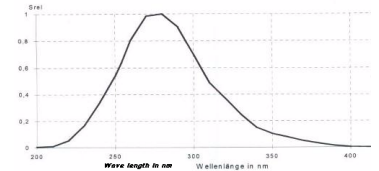
(Office & Workshop) UV-DESIGN  
Fabrikstrasse 12  
63636 Brachtal  
GERMANY  
Tel.: +49 (0)6053 8095431  
Fax: +49 (0)6053 8095433

## UV-Probe Light Guide Silver

### 2. Technical Data:

Spectral range:	UV 230 – 410 nm (Standard)
Max. Power Input	0 to 1,990 mW/cm <sup>2</sup>
Display:	LCD, 2x16 digits
Display range:X 1 :	0 - 199,9 mW/cm <sup>2</sup>
X 10 :	0 - 1999 mW/cm <sup>2</sup>
Measuring range:	0 to 1,990 mW/cm <sup>2</sup>
Power source:	3.7 V LiPo Accu cell, rechargeable
Power consumption:	20 µA
Battery service life:	1,000 hrs (100.000 Measurements)
Dimensions:	5.5" (140 mm) x 2.75" (70 mm) x 0.5" (13 mm)
Weight:	approx. 7 ounce (200 g)
Length of flexible light guide:	approx. 80" (2 m)
Operating temperature:	0 to 122° F / 0 to 50° Celsius
Base Accuracy:	± 5 %

Standard spectral range 230-410 nm, with a peak at 330 nm.



The maximum permissible temperature for the light guide is 400° Celsius/ 750° Fahrenheit. The temperature of the housing should not exceed 122° F / 50° Celsius.

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. Ongoing, PTB traceable calibration with certificate

#### Attention:

1. Please avoid shaking the UV-Probe Light Guide Silver.
2. Do not expose to excessive heat.
3. UV-light is hazardous to your health. Avoid direct UV-light to your eyes and to your body.

**Warranty:** 2 years from the date of purchase