

LIGHT METER

PCE-LM 100UV



- » **Spectral sensitivity: 230 nm to 280 nm, peak at 254 nm**
- » **Automatic data storage**
- » **USB interface with PC software for data export and report creation**
- » **Display of real-time, maximum, minimum and average values**
- » **Display of measuring duration and energy**

The Light Meter is specially designed for the precise measurement of UVC radiation and is particularly suitable for applications where the effectiveness of UV disinfection and sterilization processes must be monitored. The spectral sensitivity is in the range from 230 nm to 280 nm, with a peak at 254 nm. This makes the device ideally matched to the wavelength relevant for many UVC applications.

High-precision UVC filters and a professional UV sensor reduce interference from other wavelengths. In addition to the real-time value, the measuring device also displays maximum, minimum and average values. The measuring duration and absorbed energy are also displayed, enabling UVC exposure to be monitored and documented reliably.

Automatic data storage ensures that measured values are retained even during longer or unattended measurements. The device can be connected to a PC via the USB interface. The matching PC software enables data export and report creation, which is particularly helpful for quality checks, test reports and regular documentation.

The area of application of the Light Meter is the testing and monitoring of UV disinfection systems. It is used to monitor the radiation intensity of UVC sources and reliably assess the emitted dose for effective sterilization. Typical areas of use include medical facilities, laboratories, pharmaceutical companies, food processing and systems for water, air and surface disinfection.

Specification

Radiation	
Measuring range	0 ... 50 $\mu\text{W}/\text{cm}^2$
Resolution	0,1 $\mu\text{W}/\text{cm}^2$
Accuracy	$\pm 4 \mu\text{W}/\text{cm}^2$

Radiation	
Measuring range	50 ... 20000 $\mu\text{W}/\text{cm}^2$
Resolution	0,1 $\mu\text{W}/\text{cm}^2$
Accuracy	$\pm 8 \%$ of Rd

Radiation	
Measuring range	0 ... 9999999 $\mu\text{J}/\text{cm}^2$
Resolution	0,1 $\mu\text{J}/\text{cm}^2$

General technical data	
Units	$\mu\text{W}/\text{cm}^2$, mW/cm^2 , W/m^2 .
Display type	LCD with backlight
Display size	2,16 in
Display resolution	240x160 pixels
Storage medium	Internal memory
Storage capacity	9 Data records
Interface	USB-C
Standard(s)	JIG 879-2015, WS/T 367-2012
Response time	0,5 s
Spectral range	230 ... 280 Nm
Additional description	Long-wave response error: 60% Cosine response: 10% Linearity error: $\pm 1\%$ Short-term instability: $\pm 1\%$ (30 minutes after start-up) Fatigue characteristics: Damping 2% Zero error: $\pm 0.1\%$ of full scale
Menu language	English, English (GB), Chinese
Protection class (device)	IP20
Power supply	5 V DC
(Rechargeable) battery	2 x 1,5 V AA battery , Alkali-manganese
Capacity	2970 mAh
Operating conditions	0 ... 40 °C , 0 ... 85 % RH
Storage conditions	0 ... 50 °C , 0 ... 85 % RH
Dimensions (L x W x H)	190 x 75 x 30 mm
Weight	194 g