



LED Power PEN

LED point source

System-Features

- monochromatic spectrum of around 365 nm
- less heat impact
- no start up phase
- no standby-mode required

Advantages

- optimum adhesive curing performance
- suitable for heat sensitive materials
- low electrical power input
- focussed irradiation characteristic

LED Power Pen

The UV-Pen is an LED-technology based reliable point source with an output spectrum of 365 nm +/- 10 nm.

Advantages of LED-technology

The use of LED devices offers the following advantages: LED's do not emit IR radiation. With reduced heat output the processing of almost all heat sensitive materials is possible. The monochromatic spectrum of the Power Pen matches the absorption of photoinitiators in UV curable adhesives and allows a fast and efficient cure.

LED's can be started and stopped without delay normally caused by warming up. The UV-Pen is ready for operation immediately after switching on.

Applications

The UV-Pen is suitable for a large range of applications:

- Bonding and fixing of components in the electronic, optical and medical industry
- Fluorescent excitation for material testing and image processing
- High-intensity UV irradiation for chemical, biological and pharmaceutical purposes

Flexible use

With its small dimensions and its low weight, the Power Pen can also be employed at locations normally difficult to access.

The Power Pen power supply is delivered with plug adapters for all established mains supplies worldwide. The Pen is operated by a control unit.

The Power Pen can be activated manually by a pushbutton switch on the unit, by an external contact (e.g. foot switch) or by a potential-free PLC input.

For long term operation, an additional passive cooling may be required.



Control unit of the Power Pen

High process security

The UV-Pen has a power control integrated within the system. One optional terminal can be used for temperature monitoring

Technical Data

Peak wavelength	365 nm +/- 10 nm
UVA Intensity ^{*)}	3500 mW/cm ²
Electrical power input	ca. 5 W
Protection class	Laser protection class 3B
Mains supply	From external net 100-240V AC
Dimensions (Ø x length)	26 mm x 138,5 mm
Weight	130 g
Continuous operation without additional cooling	max. 10 minutes

UVA-intensity measured with a Höhle UV-Meter and light guide sensor

^{*)} in 8 mm distance to the irradiation exit



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