



LED

LED UV-PEN

LED point source

System-Features

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

Advantages

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

LED UV 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. The reduced heating of the substrate allows processing of heat sensitive materials. The nearly monochromatic spectrum of the UV-Pen matches the absorption of photoinitiators in UV curable adhesives and allows a fast and secure cure. LED's can be switched on and off without delay caused by heating up. The UV-Pen is instantly ready for operation 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

Due to its compact size and low weight the UV-Pen can be used in difficult accessible areas. The UV-Pen is powered directly from the main supply (adaptable for the world wide use). The device is operated via a control unit.

The unit is switched on manually by a press switch on the Pen, by an external switch (footswitch) or by a dry PLC contact.



Control unit of the LED-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

| | |
|---|--|
| wavelength | 365 nm +/- 10 nm |
| UVA-intensity ^{*)} | 800 mW/cm ² |
| UVA-intensity ^{**)} | 100 mW/cm ² |
| electrical power input | ca. 5 W |
| mains supply | from external net 100-240V AC or 24V DC |
| dimensions (Ø x length) | 26 mm x 125 mm |
| weight | 130 g |
| continuous operation without additional cooling | max. 10 minutes |

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

^{*)} direct at the irradiation exit

^{**)} in 5 mm distance to the irradiation exit



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