hönle group

hönle uv technology

LED PEN 2.0

UV LED point source

Max. irradiation intensity up to 2.500 mW/cm²

Wavelength: 365 nm

Air cooled

System-Features

- 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 Pen 2.0

The LED 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 LED Pen matches the absorption of photoinitiators in UV curable adhesives and allows a fast and secure cure.

The LED Pen can be switched on and off as often as necessary. He does not require a heating or cooling phase.

Applications

The LED Pen is suitable for a large range of applications:

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

Flexible use

Due to its compact size and low weight the LED Pen can be used in difficult accesable areas. The LED Pen is powered via an external plug-in supply unit (adaptable for the world wide use) which is included in the scope of delivery. The LED Pen is manually operated by using a pressure switch on the unit.

Optionally, the LED Pen is available with a control box for external activation (e.g. foot switch) or for activation via a potential-free PLC input signal.

Additionally, the control box provides an output signal for operation monitoring.

Control unit LED Pen (option)

High process security

The LED Pen has an internal power control and a temperature switch to protect the unit.

Technical data

wavelength	365 nm +/- 10 nm
UVA-intensity at aperature*	2500 mW/cm²
UVA-intensity at 5mm distance	500 mW/cm²
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

* measured with Hönle UV-Meter and LED sensor

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