**LED Powerline LC & LED powerdrive**

**Max. irradiation intensity:** up to 25,000 mW/cm²  
**Wavelength:** 365, 385, 395 and 405 nm  
**Water cooled**

**System features**  
- Extremely long LED service life  
- Available in different wavelengths  
- High irradiation power  
- Small size  
- Low weight

**Advantages**  
- Reduction of maintenance costs  
- Suitable for temperature sensitive materials  
- No warm-up phase  
- No stand-by time  
- Clean room compatible

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LED Powerline LC & LED powerdrive

The LED Powerline LC has been developed for all applications requiring a highly intensive UV irradiance with a low temperature load on the substrate. The LED assembly, as well as an electronic power control, guarantee high intensity and homogenous distribution of light. The recognition of LED-malfunction and a comprehensive monitoring function provide for very high process stability. So, especially in fully automated production lines, repeatable results can be realised even in shortest cycle times.

The typical service life of a LED is longer than 20.000 hours*. The LEDs can be switched on and off as often as necessary. They do not require a warm-up or cooling phase.

The emitted wavelengths are available in 365/385/395/405 nm +/- 10 nm. It is thus possible to adapt the LED head to any application in question.

Applications

The LED Powerline LC controlled by LED powerdrive is appropriate for various applications, such as

- Bonding, fixing or encapsulating of components in the electronic, optical or medical sector
- Fluorescence stimulation for materials testing and picture processing
- High-intensity UV irradiation in the chemical, biological and pharmaceutical sector

LED control

The adjustment of the irradiation time is freely selectable in the ranges of 0.01 - 99.99 sec. or 0.1 - 999.9 sec pr 1 - 9999 sec. Alternatively, continuous operation can be chosen.

The operating status and the temperature of the LED segments as well as the irradiation time can be seen on the display at a glance. The electrical LED power can be adjusted between 2 % and 100 % in 1 %-steps.

The device is recording the LED operating hours and the service menu gives comprehensive information about the current operation status.

In addition the LED powerdrive controller is characterized by the following features:

- Large and clear display with all relevant information
- Intelligent power control
- Temperature / error control of LED
- Shortest cycle time 0,01 s
- with a LED powerdrive control 80 a LED Powerline 80 can be operated
- for a LED Powerline 120 a LED powerdrive control 120 is needed
- LED Powerline 80 has got 2 LED segments, whereas LED Powerline 120 owns 3 LED segments

Special features

- Monitoring of LED segments regarding short-circuit, interruption and excess temperature
- auto recognition of connected LED Powerline LC

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Advantages of the LED technology

LEDs do not emit IR radiation. Even temperature-sensitive materials can be irradiated. The different spectra available guarantee safe and fast curing. As LEDs do not require a warm-up phase, LED heads can be switched on and off without any problems: they are ready for immediate operation.
More Hönle LED-Units

**Water cooled type**

**Air cooled type**

**LED Spot W**
The LED Spot W allows an extremely high UV intensity output - and requires only a very small amount of space.

**jetCURE LED**
Modularly controllable and changeable (grid 41 mm) as well as continuously adjustable. Available in two versions which differ in their cooling air duct.

**bluepoint LED eco**
bluepoint LED eco has been developed for all applications requiring a most intensive punctiform UV irradiation.

**LED Spot 100 IC / HP IC**
The square light-emitting aperture has a size of about 100 mm x 100 mm. For bigger irradiation fields, several LED Spots 100 can be connected without gaps.

**LED Powerline Focus**
Almost distance-independent high intensity due to focusing optics.

**LED Power Pen 2.0**
This handy LED point source is available in the wavelengths 365 nm and 405 nm. Depending on the wavelength it is able to generate UVA-intensities of either 10,000 mW/cm² or 16,000 mW/cm².

**LED Spot 40 IC**
The LED Spot 40 IC was developed for all applications requiring a compact flood unit with high intensities.

**UVAHAND LED**
A high-intensity hand-held UV lamp. It is easy to transport, ergonomically designed and ideal for mobile use.

ISO 9001 certified

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