

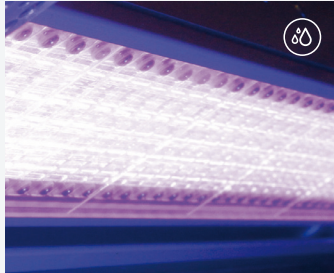


MORE HOENLE LED-UNITS

Water cooled type   
Air cooled type 



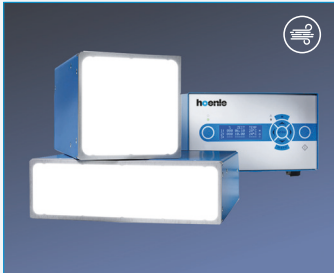
**LED Spot 40 IC**  
The LED Spot 40 IC was developed for all applications requiring a compact flood unit with high intensities.



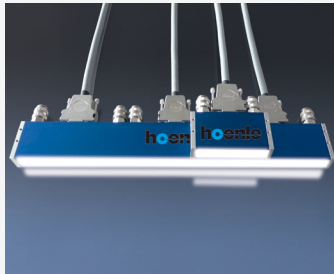
**LED Powerline Focus**  
Almost distance-independent high intensity due to focusing optics.



**LED Powerline AC/IC**  
Air cooled high-performance UV LED array optional with LED powerdrive IC.



**LED Spot 100 IC / 100 HP IC & LED Spot 200 HP IC**  
The light-emitting aperture has a size of about 100 x 100 or 200 x 50 mm. For bigger irradiation fields, several LED Spots can be arranged modularly.



**LED Powerline LC**  
Maximal length depends on application (lengths variable in 40 mm-steps). The LED Powerline LC is available in the wavelengths 365/385/395/405 nm.

**Hoenle AG**  
Nicolaus-Otto-Str. 2  
82205 Gilching  
Germany  
  
Phone: +49 8105 2083-0  
curing@hoenle.com  
adhesivesystems@hoenle.com  
  
[www.hoenle.com](http://www.hoenle.com)



Operating parameters depend on production characteristics and may differ from the foregoing information. We reserve the right to modify technical data.  
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LED SPOT W &  
LED POWERDRIVE



**jetCURE LED**  
Modularly controll- 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 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/cm<sup>2</sup> or 16.000 mW/cm<sup>2</sup>.



UV LED FLOOD LAMP

Max. irradiation intensity:  
up to 30.000 mW/cm<sup>2</sup>  
Wavelength:  
365, 385, 395, 405 and 460 nm  
Water cooled

FEATURES

- Very small lamp head design
- Extremely long LED service life
- Available in different wavelengths
- Intelligent power control
- Controller for one, two or three LED Spot W available

BENEFITS

- Reduction of maintenance costs
- Homogeneous irradiation of larger areas
- Suitable for temperature sensitive materials
- No warm-up phase
- No standby-time
- Clean room capable

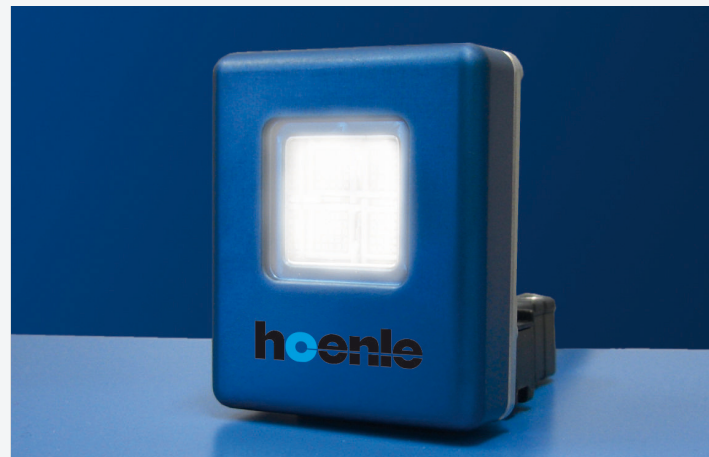
[www.techsil.co.uk](http://www.techsil.co.uk)

## LED SPOT W & LED POWERDRIVE

The LED Spot W provides a most intensive UV irradiation on a larger area, while having only very small space requirements. Thanks to the external water cooling the extremely small lamp head design offers highest intensity. As the LED Spot does not require an integrated fan, it can also be used in a clean room environment.

The quadrate light emitting aperture has a size of 20 mm x 20 mm. Depending on the selected intensity/ homogeneity it can be increased considerably by changing the distance to the substrate.

The LED Spot allows for a very flexible use due to its high intensity and the possibility to control the LEDs in a cycle time <100 µs externaly. Thus, it is possible to realize shortest cycle and machine throughput times, especially in fully auto-mated production lines.



LED Spot W

In addition, the LED Spot W features the characteristic advantages of the LED-technology, as for example the typical LED service life of more than 20.000 hours\*. Furthermore, the LEDs can be switched on and off as often as necessary, without any heating or cooling phase.

The emitted wavelengths are available in 365/385/395/405/460 nm +/- 10 nm. It is thus possible to adapt the LED head to any application in question.

## APPLICATIONS

The LED Spot W controlled by the LED powerdrive controller is appropriate for various applications, such as:

- Bonding, fixing or encapsulating of components in the electronic, optical or medical-technical sector
- Fluorescence stimulation for materials testing; also suitable for automatic image processing
- High-intensive UV irradiation in the chemical, biological and pharmaceutical sector
- UV-irradiation for different applications in a clean room

## LED SPOT CONTROL

The LED powerdrive allows the independent operation of up to 3 LED Spots W. 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 clearly arranged display
- Intelligent power control
- LED temperature and error monitoring
- Shortest cycle time (0.01 s when set via display / 100 µs with external control)

## APPLICATIONS

The LED powerdrive controller has the following interfaces:

- Analog preselected target value 0,2V – 10V □ 2% – 100%
- PLC inputs: LED on, LED enable
- PLC outputs: LED is on, LED is off, LED error, LED warning
- Dry relay contact function (see PLC outputs) or for driving an external cooling device
- Foot switch
- LED enable signal

## ADVANTAGES OF THE LED TECHNOLOGY

LEDs do not emit IR radiation. Due to the inferior temperature load of the substrate, even temperature-sensitive materials can be irradiated. The different spectra available guarantee a 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 immediately ready for operation.

## TECHNICAL DATA

LED service life	> 20.000 hours*
adjustment range of timer (in seconds)	0,01 – 99,99 or 0,1 – 999,9 or 1– 9999 or continuous operation
wavelength in nm typ. intensity in mW/cm² **	365 385 395 405 460 14000* 16000* 25000* 25000* 30000**
power supply	90 V – 264 V, 47 Hz – 63 Hz
max. input current	2,2 A
Power rating	200 W
dimensions LED-head without connectors (H x B x T)	ca. 60 x 50 x 17 mm
cooling	External water cooling

\* typical lifetime under specified operating conditions

\*\* measured with Hoenle LED sensors for UV meter

