LED-UV UNITS
FOR CURING ADHESIVES



High performance LED curing systems
for adhesives and sealants

www.hoenle.com

LED SPOTLIGHT



BLUEPOINT LED

The new bluepoint LED is an optimized spot curing system for automated manufacturing processes.
Up to five control units can be operated separately or combined via an intuitive, detachable touch display.
Each control unit can control up to four LED heads, so that a total up to 20 LED heads can be operated with one display.

Available wavelengths in nm: 365/385/405
Irradiation intensity in mW/cm²: up to 20.000

LED LINE EMITTERS



LED POWERLINE LC

The LED Powerline LC is a high-performance array for intermediate curing (pinning) and final curing for printing applications. These very high intensity LED systems can also be used for rapid curing of photoreactive adhesives and sealants.
The LED Powerline's light weight and compact dimensions permit installation into very small spaces. This curing system is cleanroom compatible and is ideally suited for high-volume processing of electronics, optics, and medical devices.

Available wavelengths in nm: 365/385/395/405
Irradiation intensity in mW/cm²: up to 25.000



LED POWERLINE ACIC

LED Powerline ACIC is an air cooled high-performance LED UV array for curing photoreactive adhesives and pottings. Integrated air-cooling guarantees reliable continuous operation in ambient temperature without more costly external energy-consuming cooling systems.

Available wavelengths in nm: 365/385/395/405
Irradiation intensity in mW/cm²: up to 16.000

PORTABLE DEVICES



LED PEN 2.0 & LED POWER PEN 2.0

The LED Pen is a handy LED technology-based point source. Its compact size and light weight make the LED Pen suitable for manual use or in automated processes with limited space. The LED Pen is powered via an external plug-in supply unit (adaptable for the worldwide use) which is included as part of the system.

Available wavelengths in nm:
365 (LED Pen 2.0), 365/405 (LED Power Pen 2.0)

Irradiation intensity in mW/cm²:
up to 4.800 (LED Pen 2.0) / up to 10.000 / 16.000 (LED Power Pen 2.0)



LED LINE 500

The LED Line 500 is an economical linear LED array. Its compact design makes it easy to transport and thus ideal for mobile use. Its homogeneous irradiation ensures reliable production results within seconds. An integrated timer allows the adjustment of irradiation times between 1 second and 19 hours which provides reproducible curing results. This system may also be operated continuously.

Available wavelengths in nm: 365/405
Irradiation intensity in mW/cm²: up to 300



UVA HAND LED

UVA Hand LED is a portable hand-held light curing system. It is easy to transport, ergonomically designed and ideal for mobile use. Its strong irradiation ensures reliable production results within seconds.
A homogeneous intensity distribution is ensured by the arrangement of the individual LEDs. A “blacklight” version is available for fluorescent inspection.

Available wavelengths in nm: 365/405
Irradiation intensity in mW/cm²: up to 350

Water cooled type **Air cooled type**

CURING CHAMBERS

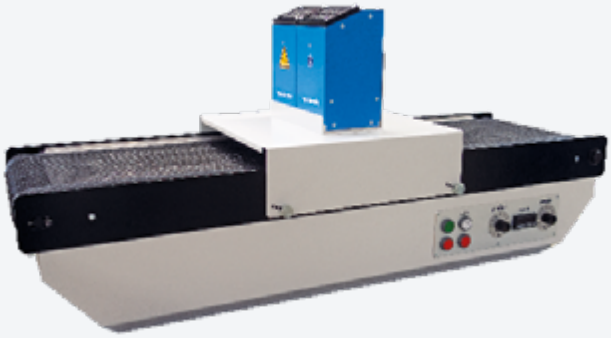


LED CUBE 100 IC & LED CUBE 350 IC

The LED Cube is a compact UV irradiation chamber for use in the laboratory or for manual production. By employing different LED units the emission range and the intensities are adjustable to various fields of application. The LED assembly as well as an electronic power control provide production-level intensities and homogenous distribution of light.

Available wavelengths in nm: 365/385/395/405/460
Irradiation intensity in mW/cm²: up to 5.000

LED CONVEYOR



CONVEY LED

A flexible UV conveyor belt is an absolute must-have for developing adhesives, as well as for simulating manufacturing processes in the laboratory. It can also be used for smaller-scale production. ConVey LED is a table-top conveyor which can be equipped with several curing systems to perfectly match the adhesive and application. When equipped with an LED IC System from Hoenle, a separate power controller is not required.

UV MEASUREMENT



UV METER

The hand-held Hoenle UV-Meter precisely measures data that is traceable to the German standard PTB (Physikalisch Technische Bundesanstalt). Different sensors cover wavelengths from 230 nm to 550 nm – UVC, UVB, UVA and VIS. With this wide range of interchangeable sensors, the Hoenle UV-Meter is suitable for many different manufacturing processes. Sensors to accommodate various wavelengths are available for spot curing (point), linear array, and flood systems.
The compact surface sensors for flood systems are only 14mm high for better accesibility.

LED FLOODLIGHTS



LED SPOT 100 HP IC & LED SPOT 200 HP IC

With uniquely designed LED arrays and electronic power control, the LED Spot 100 and 200 generate a homogeneous distribution of high intensity light over larger surface areas. The light emitting apertures are 100 x 100 mm and 200 x 50 mm respectively.
The size of the irradiated area can be adjusted by simply changing the distance to the substrate. Additionally, it is possible to connect several LED Spots without gaps to irradiate areas of any required size.

Available wavelengths in nm: 365/385/395/405/460
Irradiation intensity in mW/cm²: up to 3.000



LED SPOT 40 IC

The LED Spot 40 IC was developed for all applications requiring a compact flood unit with high intensities.
The square light-emitting aperture has an approximate size of about 40 mm x 40 mm enclosed in a 55mm x 50mm housing. This compact design allows the integration of this miniature but powerful LED flood unit in the smallest spaces.

Available wavelengths in nm: 365/385/395/405/460
Irradiation intensity in mW/cm²: up to 10.000



LED SPOT W & LED POWERDRIVE

The LED Spot W generates the highest curing intensity in the Hoenle line of LED curing systems. With up to 30.000 mW/cm² from a 20 x 20 mm aperture, it fully supports high volume, high speed production lines. The LED Spot W is very compact and integrates into tight-fitting spaces. This water-cooled, cleanroom compatible system is ideal for processing electronics, optics, and medical devices.

Available wavelengths in nm: 365/385/395/405/460
Irradiation intensity in mW/cm²: up to 30.000

MORE THAN ADHESIVE CURING.
A COMPLETE BONDING SYSTEM.

A strong bond requires more than just the right adhesive. The key lies in the interaction between the adhesive, the curing equipment, and the process. Discover high-performance adhesives designed for your chosen curing technology. We'd be happy to help you find a solution tailored to your requirements and application. Contact us!



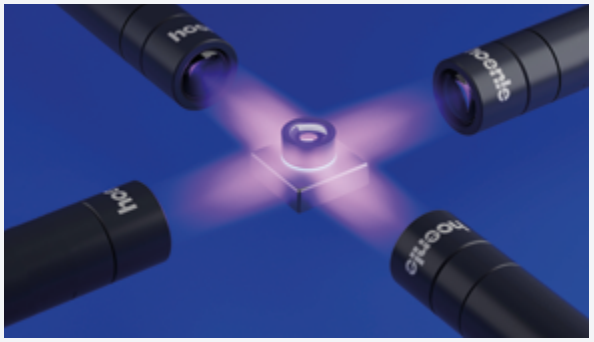
CONSUMER ELECTRONICS

Hoenle's UV light curable adhesives can reduce assembly time and enhance the reliability and performance of electronic packaging. Curing at ambient temperatures, these adhesives are ideal for assembly of heat-sensitive components. Typical applications include encapsulation, potting, edge bonding, camera module assembly, and RFID bonding.



MEDICAL GRADE

Our medical grade adhesives are ISO 10993 and USP Class VI approved for biocompatibility. They are compatible with EtO and Gamma sterilization, with some selections also resistant to autoclaving. Fast curing, UV/Visible light formulations create reliable bonding processes for high volume assembly of syringes, catheters, tube sets, wearables, and endoscopes.



OPTICS

Optically clear, non-yellowing adhesives precisely bond lenses, fibre optics and LEDs, advancing active alignment, wafer bonding and camera module assembly in optoelectronics.

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