

Press Release

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New bluepoint LED optics for significantly higher intensity

Dr. Hönle AG has developed a new lens type for its bluepoint LED UV curing unit series, which focuses the light into a linear irradiation and can therefore cure adhesives with a significantly higher intensity. The high intensity is usually required for applications in which a gap must be irradiated, such as active alignment.

The new optic can simply be screwed onto the LED heads of the bluepoint LED and bluepoint LED eco devices from Hönle. It is not necessary to purchase new LED devices. The new optic is suitable for wavelengths of 365/385/405 nm. The focused light delivers an irradiation area of 10 mm x 1 mm and can achieve intensities of up to 7,000 mW/cm². The light is distributed homogeneously across the irradiation field thanks to the special shape of the lens. The optic is particularly suitable for small-area applications where a particularly high intensity is required in a small space. This is necessary, for example, when curing in gaps. Adhesives dispensed in annular gaps can be cured quickly and reliably by arranging several LED heads in a circle around the circumference. The optimized curing and high intensity enable the shortest curing cycles for your process.

The bluepoint LED UV spotlight series from Hönle is especially suitable for curing UV adhesives in industrial assembly processes. The compact dimensions of the bluepoint LED head allow integration into the machine even where space is limited. The LED heads are passively cooled and require

Press Release

neither fans nor water cooling. As LEDs do not emit IR energy, curing takes place at low temperatures. This makes LED devices ideal for use with temperature-sensitive substrates.

Typical applications for bluepoint devices with the new lens include active alignment, rod lens or lens bonding in optics or medical technology, as well as underfills or securing SMDs on printed circuit boards in the electronics sector. For all these applications, UV adhesives from Panacol's Vitralit® series are also available that are specially adapted to the wavelengths of the bluepoint LED.



Caption: The new optic ensures particularly high intensities for UV adhesive curing in active alignment applications, for example

Photo: Panacol

Note: The photographic material may only be published in connection with the associated press release.

Press Release

About Hönle Group: Dr. Hönle AG is the parent company of the Hönle Group, based in Gilching / Munich. The publicly listed UV specialist is one of the world's leading suppliers of industrial UV technology. The company develops, manufactures, and markets UV/LED-UV systems and equipment, UV lamps, and UV measuring technology for various application fields worldwide. The business is divided into the three units: Adhesive Systems, Curing, and Disinfection.

The **Business Unit Adhesive Systems** units experts for bonding and sealing applications: **Panacol** (industrial adhesives and sealants), **Eleco** (industrial adhesives and dispensing systems), and **Hönle** (UV and LED-UV curing systems). Their products are used in manufacturing processes for emerging markets such as electronics, microelectronics, precision mechanics, optics, automotive (including e-mobility), aviation, and medical technology.

In addition to **international subsidiaries** in China, Korea, France, Great Britain, Austria, Malta, and the USA, as well as a sales office in Italy, the group has a **dense network of distribution partners** worldwide.

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