

Adhesives Overview

LED Curing Solutions



UV LED curing solutions are a great fit for adhesive bonding applications. Adhesives for high-volume industrial processes must maintain process control to meet rigorous end-user demands.

Sustainability

- No mercury disposal
- Safer workplace
- No ozone

Operating Economics

- Up to 90% energy savings
- Low maintenance
- Longer lifetime

Increased Productivity

- Low or no heat on components
- Tighter process control
- Higher Yields

UV LED Curing Technology



UV LED curing solutions are being rapidly adopted for curing adhesives in factory assembly lines throughout the world. Low operating costs, long lifetime, and low maintenance are just a few of the reasons. Additionally, small electronic components may be sensitive to heat and UV LED overcomes those issues by being a 'cool' light source.

Adhesive Applications

UV LED Curing products are utilized in a wide range of industrial adhesive bonding applications due to their long-life and high-reliability. UV adhesive curing applications include: electronics, medical, pressure-sensitive films, and many other manufacturing processes.



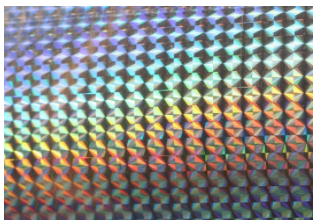
Electronic Components

UV LED technology is a perfect match for adhesive curing components such as speakers, camera modules, display screens, and printed circuit boards. The unique combination of high-energy UV LED sources with the appropriate adhesive provides increased productivity, while also providing the ability to cure heat sensitive materials.



Medical devices

UV adhesive curing for medical applications such as: syringes, catheters, IV delivery systems, endoscopes, hearing aids. UV LED curing technology minimizes the heat load to the work surface allowing for capability with heat-sensitive applications. The long lifetime, instant on/off control and consistent UV output can improve process variation and control.



Pressure Sensitive Adhesives

UV adhesives on the back of tapes, labels, and films can be quickly and safely cured using UV LED energy due to the precise control provided. Pressure-sensitive adhesives (w) form a bond by the application of light pressure to connect the adhesive with the substrate.



Manufacturing Processes

Additional manufacturing processes such as solar panels, glass, metals, elastomers, composites and many plastics lend themselves to using UV LED curing. UV LED light sources are utilized in a wide range of industrial applications due to their long-life and high reliability.