

# Electronics Manufacturing

## LED Curing Solutions



UV LED curing solutions are a great fit for manufacturing electronic components. Adhesives and coatings for high-volume, industrial processes must maintain process control to meet rigorous end-user demands. In some industries, compliance bodies require certain adhesive strength to ensure safety for electronic devices.

### 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; UV LED overcomes those issues by being a 'cool' light source.

## Electronics Applications

UV LED curing technology is ideally suited for electronic assembly applications. The unique combination of high-energy UV LED sources with the appropriate adhesive or coatings provides increased productivity, while also providing the ability to cure heat sensitive materials.



### Touch Panel/LCD/OLED

UV LED curing technology for touch panel display manufacturing is an emerging application as it provides consistent stable output, no 'hot' spots, and low heat. Asia-Pacific, in particular, has emerged as the largest and the fastest growing regional market for touch panel manufacturing.



### Mobile Phones

UV LED curing is well suited for mobile phone assembly for camera modules, camera lens, earpiece, microphone and casings. The ability to provide consistent output, even during long-lasting, high-volume jobs—when curing very sensitive products—makes UV LED technology an effective solution in these markets.



### Micro Speakers

Assembly of micro-speakers includes the use of light curable adhesives at multiple points, joining together parts which could be deformed and damaged by excessive heat. UV LED technology offers low temperature with high UV output in order to meet the challenge of increasing production speeds and improving yields.



### Disk Drives

UV LED technology is a perfect match for adhesive curing disk drive components such as read/write heads and stack heads assembly. UV LED curing offers better reliability, increased productivity and improved yields for these types of applications.