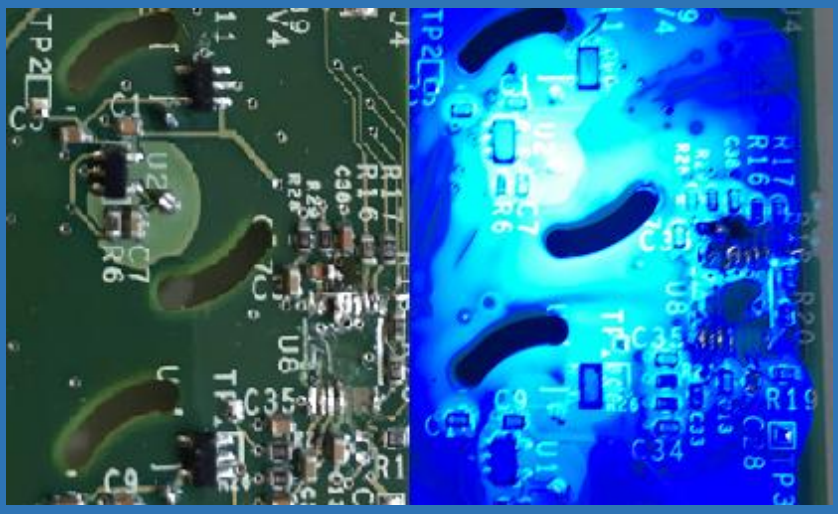
Curing & Coating Applications Using Labino Ultra Violet Lights



Curing with UV when time, perfection and safety is a given priority.

Curing using UV Light

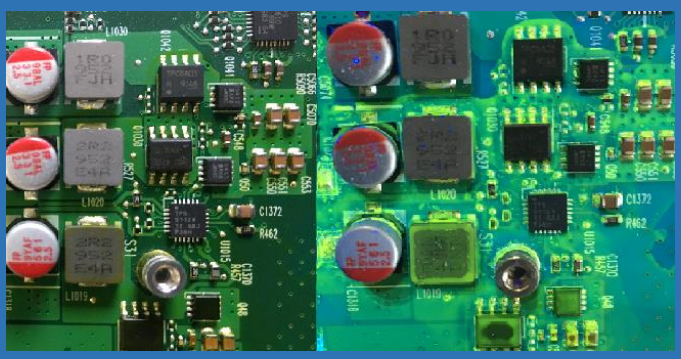
Curing with high intensity UV light is used to instantly dry inks, coatings, and adhesives. The process is based on a photochemical reaction, when liquid monomers and oligomers are mixed with photo initiators, and exposed to the UV light. UV curing is used in many industries including automotive, electronics, telecommunications, graphic arts, converting and metal, glass and plastic decorating. The UV curing process has many advantages over traditional drying methods in terms of production time, number of errors, manufacturing space, and environmental issues. Depth-curing with UV radiation, at wavelengths between 300-400 nm give the best results. The method gives very short curing times to handling strength as well as low heat generation and energy consumption.

Curing Silicon with SuperXenon at low temperature

Many silicone products are cured using UV light for electronic display applications. During such process the curing time must be very short and the temperature as low as possible. The actual curing time is determined based on the distance between the light source and the surface as well as the thickness and dimensions of the silicon applied.

UV inspection of coatings on electronics

Most PCBs manufactured are sealed with some kind of coating. Either for moisture protection, water protection or other kinds of sealing. It is of utter importance that the coating is applied in a correct way on the PCB, covering the components it is intended to. Some components are crucial to cover, others must not be covered. All coatings are clear and very difficult to see with the naked eye. The majority of all coatings fluoresce under 365 nm and become visual to the human eye. Inspecting the PCB with Labino ultra violet light ensures that the coating has been applied correctly.



SuperXenon for high intensity

SuperXenon is a high intensity light, perfect curing. The lamp offers a 50 watt bulb, together with a Midlight or Spotlight reflector you will get a very high intensity. SuperXenon is available with pistol handel and top handle, as well as battery or AC operated.

BigBeam Helios Midlight for Large Coverage

BigBeam Helios Midlight offers a wide beam for large coverage and hands free process. You can mount the BigBeam in several ways. Either with a mounting bracket on a machine or on a friction arm. It is also very useful for handheld inspection using a pistol handle. BigBeam is available as battery operated as well as AC.

MidBeam 2.0 for Hand Held Inspection

MidBeam 2.0 is a small handheld lamp with excellent coverage for its size. The lamp is available as battery or mains (AC) operation. If a hands free inspection is required the lamp can easily be mounted on a friction arm or on a flexible arm.

UV Torch Lights

Labino offers a wide range of torches. The most popular UV torch for curing applications is the UVG2 Spotlight. Light weight tool offering a high intensity. For coating inspection we recommend a wider beam, such as Midlight for better coverage.

Model	UV Intensity at 38 cm (15'')	Beam coverage at 38 cm (>1200 µW/cm²)	Installation
SuperXenon Spotlight	>50 000 µW/cm²	≈ 140 mm (5.5'')	Handheld or fixed installation using a friction arm.
BigBeam Helios Midlight	>8000 µW/cm²	≈ 275 mm (10.8'')	Handheld or fixed installation using a mounting yoke or a friction arm.
MidBeam 2.0 Zeus	>5 000 µW/cm²	≈ 200 mm (7.9'')	Handheld or fixed installation using a flexible arm or a friction arm.
Torch Light UVG2 Spotlight & Midlight	>25 000 µW/cm² >10 000 µW/cm²	≈ 30 mm (1.2'') ≈ 100 mm (3.9'')	Handheld. Tripod is available.

Labino Distributor:

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