



For immediate trade press release

## New SunSpot-SM UV Spot Curing System

Uvitron's SunSpot SM is a portable high intensity UV system designed for work station, assembly system or off-line adhesive curing. A vertically mounted long-life mercury lamp, replaceable elliptical reflector, and filtered input light guide contribute to reduced maintenance costs. Easy control of exposure time and foot pedal activation simplify operation. Weighing less than 7.5 pounds with a 10 x 5 inch footprint, this compact, low cost unit is the smallest UV curing system in its class.



The SunSpot SM provides exceptional lamp life. The lamp is mounted vertically, allowing the arc to fall in a straight line. This prevents the arc from wandering into the quartz envelope and overheating it. This design permits the arc to strike the conical anode equi-radially, preventing uneven electrode erosion.

SunSpot's 100W lamp delivers the highest UVA intensity per lamp power in the industry. With a  $>10\text{W}/\text{cm}^2$  output, the system maximizes adhesive curing speed without overheating sensitive material being assembled. Employment of a dichroic coated mirror to reflect only the usable UV wavelengths of light through the light guide assures that high temperature infrared is diverted from the curing target. An optional secondary in-line filter is also available to further reduce heat in extremely sensitive applications. Inadequate filtering often results in overheating of the object being cured, and can damage the adhesive bond line. Competing units that use only in-line filters in this high intensity class are not as effective.

Unlike the needle shaped electrodes of traditional arc lamps, the Uvitron lamp is constructed with an extra-heavy blunt tipped anode that does not quickly degrade over time. Airflow is carefully channeled to provide symmetrical cooling of the lamp, ensure end seal life, prevent damaging hot spots and eliminate arc sputtering. A quiet DC fan cooling system directs air to all system components, aiding cool operation and system reliability.

A front panel hour meter tracks lamp age, permitting consistent lamp replacement scheduling. A "lamp ready" LED notifies the user when warm-up is complete. A side access panel makes lamp or reflector changes possible in 1 to 2 minutes.

The system's switch mode power supply maintains constant lamp power regardless of variations in AC line input or lamp voltages. This regulation provides for stable light output, repeatable curing times, and longer lamp life. The wide range 90 to 265 VAC line input makes SunSpot easy to use in any country, with no wiring changes or voltage select switching required. The unit features an accurate 1 to 99 second pedal controlled exposure timer and long-life shutter. The timer can be switched from timed to manual for operator control of curing duration.

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