

# UV CURING SYSTEM

The **Spot UV LED Curing System** is an energy-efficient, compact solution for **precision UV curing**. Designed for **instant-on performance** with **minimal heat output**, this system is ideal for sensitive materials and micro-scale bonding tasks. It eliminates warm-up delays, reduces energy consumption, and delivers stable, focused UV light through LED technology, making it a smart replacement for traditional mercury-based systems.



Feature	Description
Excellent Energy Efficiency	LED technology consumes less power, reducing energy costs and supporting sustainability.
Instant Light-On (No Warm-Up)	Delivers full UV intensity instantly, improving workflow speed and productivity.
Low Heat Generation	Produces minimal heat—safe for heat-sensitive materials. Operates at 0°C to 50°C.
Eco-Friendly System	Mercury-free and ozone-free design ensures safety and environmental compliance.
Compact Size	Lightweight and space-saving, suitable for tight spaces or portable setups.
Reasonable Price	Cost-effective solution without compromising performance or reliability.

Technical Feature	Description
Light Source	UV LED (typically 365nm, 385nm, or 405nm wavelength options)
Curing Area	3mm, 4mm, 6mm, 8mm, 12mm (option)
Cooling Method	Natural Cooling, Fan cooling (option)
Input power/ Hz	AC 220V (±10%), 50/60Hz (DCV/4A~DC48V/4A)
Working Humidity	Working Humi/Storage Humi : 30%~85%RH
Temperature Range	Operates efficiently between 0°C to 50°C
Power Consumption	20W@100% output
Control Modes	Manual switch, timer control, or foot pedal (optional)
System Lifetime	Up to 20,000–30,000 hours (LED lifespan)
Design Form	Compact, modular, and portable
Environmental Compliance	Mercury-free, ozone-free, RoHS compatible

*\*Specifications are subject to change without notice.*

Industry	Application Description
Electronics	<ul style="list-style-type: none"><li>- Spot curing of adhesives on PCBs and components</li><li>- Chip encapsulation and sensor bonding</li></ul>
Medical Devices	<ul style="list-style-type: none"><li>- UV bonding of small, heat-sensitive components</li><li>- Sensor and tubing assembly using LED UV</li></ul>
Optics & Photonics	<ul style="list-style-type: none"><li>- Fiber optic bonding and lens alignment</li><li>- Coating and positioning of precision optics</li></ul>
Printing & Labels	<ul style="list-style-type: none"><li>- Spot curing of UV inks, labels, and varnishes</li><li>- Ideal for short</li><li>-run and test prints</li></ul>
Laboratory / R&D	<ul style="list-style-type: none"><li>- Material testing and UV-curing experiments</li><li>- Prototype assembly under controlled exposure</li></ul>
Jewelry & Craft	<ul style="list-style-type: none"><li>- Bonding gems, plastics, and decorative elements</li><li>- Curing resins and coatings with precision</li></ul>

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