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SunSpot 2

UV Spot Curing System

UVITRON INTERNATIONAL

Ultra-Compact, UV Spot Curing System

The SunSpot 2 is an advanced, ultra-compact light curing system offering unmatched high-intensity illumination, ideal for rapid curing. Designed with efficiency in mind, it boasts a low cost of ownership, facilitated by its long-lasting UV/visible arc lamp and durable light guide, ensuring consistent performance over time. Despite its lightweight, 6-lb frame, the SunSpot 2 packs a punch with a potent 200W lamp, providing industry-leading intensity and speedy curing compatible with high-speed production automation equipment. With its precise controls and foot pedal activation, the SunSpot 2 allows for easy manipulation of exposure times, making the curing process seamless and efficient. Its innovative design supports multi-pole light guides, allowing simultaneous light delivery to multiple curing zones and eliminating the need for additional lamp systems. Safety is also a priority, with features like a quick-change lamp and safety interlocks to provide maximum operational protection.



Features



Precision Timer & Shutter Control

Employ the accurate 1 to 99-second pedal-controlled exposure timer and shutter for precise curing duration. Switch easily between timed and manual modes as the shutter stays open while the pedal is engaged for operator convenience.



Intuitive Intensity & Power Adjustment

Adjust the intensity seamlessly with the front panel's locking intensity control, offering a 35 to 100% combined power adjustment range. This feature enables users to manage the curing process effectively, accommodating various material sensitivities.

External Control Compatibility

A rear-panel connector facilitates integration with external monitoring and control systems, including PCs and PLCs. Control signals such as 'lamp off', 'shutter open', and 'hour meter reset', along with monitoring signals, provide a comprehensive control suite.



Smart Lamp Auto-Dimming

Experience intelligent operation with the lamp's auto-dimming feature when the shutter is closed. This function not only extends the lamp’s life but also reduces power consumption and heating, ensuring efficient performance.

Safety & Security Mechanisms

Multiple safety interlocks enhance operational safety. The shutter closes automatically if the light guide is removed, and power is disconnected when the lamp cover is removed.



Optimized Cooling System

With regulated dual fans, the SunSpot 2 guarantees cool operation. This efficient cooling system ensures reliability and extends the lamp's life to more than 2000 hours, offering consistent performance over time.

UVITRON INTERNATIONAL

150 Front St., Unit 4 | West Springfield, MA 01089
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SunSpot 2

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Dimensions & Specs

- **System Type:** Focused Spot System w/ Light Guide
- **Part #s:** UV1853 (120VAC); UV2132 (240VAC)
- **Lamp Power:** 200W
- **Input Voltage:** 100-120 / 200-240 VAC ±10%
- **Input Current (Max @ 120/240V):** 4.7 Amps at 120V; 2.5 Amps at 240V
- **Irradiance @ 1":** 18,000 mW/cm2 UVA
- **Curing Area:** 1.5"/3.0" spot size at 1.5"/3.0" distance
- **Weight:** 5.92 lbs
- **Size (L x W x H):** 4.05 x 8.64 x 10.51”

System Part Numbers

PART	Item	Details
UV1853	SunSpot 2, 120VAC	Ultra-compact, UV spot light curing system. The default configuration comes with heat filter assembly, 200W UVA enhanced arm lamp/reflector module, shutter control foot pedal, 1m x 5mm liquid filled light guide, UV/IR protective OTG glasses (5.0 shade with case), AC power cord (USA standard) and SunSpot 2 manual.
UV2132	SunSpot 2, 240VAC	

Accessories

PART	Item	Details
UV2554	Heat Filter Assembly	300-450nm range transmission (smaller filter, further from lamp)
UV1973	Optional Filter	Transmission >300nm (large filter. closer to lamp)
UV1860	Shutter Control Foot Pedal	6' cable w/DSUB connector
UV2156	PLC I/O Control Cable	Interface to back 9 pin DSUB connector from PLC
UV2304	Replacement Fan Filter Elements	Inlet/Outlet, 45 PPI
UV2136	AC Input Fuse	Time Lag 6.3A, 250VAC, 5.2x20mm Glass
Multiple	Power Cords	Multiple types available
UV4783	UV/IR Protective Safety Glasses	Sleek OTG (fit over prescription eyewear), 5.0 shade
UV2232	UV/IR Protective Safety Glasses	Sport contour, 5.0 shade
UV0567-SA	Spot Cure Radiometer	Operating range 0.2-19.99W/cm2, Spectral range 320-390nm, w/ case
UV1451-H	Power Puck II Radiometer	4 bandwidths, range: 0.1-10W/cm2 (UVA, UVB, Visible), 0.01-1W/cm2 (UVC)
UV4244-10	Puck Radiometer Light Guide Fixture	Holding chuck collet: 10mm. For light guides: UV0570, UV0571, UV0572
UV1854	SunSpot 2 Instruction Manual	Usage and maintenance info for SunSpot 2 system

Replacement Lamps

PART	Item	Details
UV1866	UVA Enhanced Lamp	200W Short Arc Lamp Module
UV2170	UVB Enhanced Lamp	200W Short Arc Lamp Module
UV4792	Visible Enhanced Lamp	200W Short Arc Lamp Module

Liquid Light Guides (Single Pole)

PART	Details
UV0570*	Liquid Light Guide, 1m x 5mm
UV0571*	Liquid Light Guide, 1.5m x 5mm
UV0572*	Liquid Light Guide, 2m x 5mm
UV0774	Liquid Light Guide, 1m x 8mm
UV0775	Liquid Light Guide, 1.5m x 8mm
UV0776	Liquid Light Guide, 2m x 8mm
UV1195	Liquid Light Guide, 3m x 8mm
UV3381*	Liquid Light Guide, Deep UV, 1m x 5mm
UV1508*	Liquid Light Guide, Deep UV, 1.5m x 5mm

Fiber Light Guides (Single Pole)

PART	Details
UV0765	Fiber Light Guide, 1m x 5mm
UV0766	Fiber Light Guide, 1.5m x 5mm
UV0767	Fiber Light Guide, 2m x 5mm
UV0768	Fiber Light Guide, 1m x 8mm
UV0769	Fiber Light Guide, 1.5m x 8mm
UV0770	Fiber Light Guide, 2m x 8mm

Multi-Pole Light Guides

PART	Details
UV2168	2 Pole Liquid Light Guide, 1m, 5mm Common End
UV2587	4-Pole Liquid Light Guide, 1m, 5mm Common End
UV3702	2 Pole Fiber Light Guide, 1m, 5mm Common End
UV3703	2 Pole Fiber Light Guide, 1.5m, 5mm Common End
UV3704	2 Pole Fiber Light Guide, 2m, 5mm Common End
UV0575*	2 Pole Fiber Light Guide, 2m, 5mm Common End (Metal Sheathing)
UV2005	3 Pole Fiber Light Guide, 1m, 5mm Common End
UV0794	4 Pole Fiber Light Guide, 1m, 5mm Common End
UV0795	4 Pole Fiber Light Guide, 1.5m, 5mm Common End

*stocked light guides. Other light guides are special order.

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