

FUSION UV SYSTEMS, INC.

POWER CURE 1

Now Introducing -
The World's Smallest
Electrodeless
UV Lamp System

The world's smallest and most powerful electrodeless UV lamp system from "The Power of Light[®]" people at Fusion UV

PowerCure 1

The PowerCure 1 packs the best features of microwave-powered electrodeless lamps into a lightweight and compact package. Economical and highly versatile, the PowerCure 1 specifically designed for use in the UV inkjet and micro-assembly industries can also be used in a wide variety of environments from laboratory to production.

The PowerCure 1 can be used in a focused or out-of-focus range for small medical, electronics and optical parts. Conveniently, the Lamp Head fits into Fusion UV's Lab Conveyor System (LC-6B) for linear curing applications.



LC-6B conveyor system

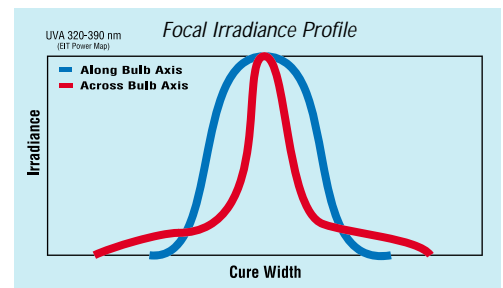


The PowerCure 1 is available with the popular D-bulb installed within its disposable Lamp Head. With fewer parts and a modular design, this innovative system is more reliable than other systems.

Electrodeless Bulbs with Extra Long Life

The use of RF technology in the PowerCure 1 provides more stability and reliability than alternative arc lamps. This maximization of UV output and spectral consistency over time is due to the elimination of electrodes in the bulbs.

Each Lamp Head is fully warranted for 1,000 hours. And when the Lamp Head needs replacement, it can be done within seconds. These high energy lamp systems put out a reliable and consistent source of UV energy so that you can count on the quality of the cure from day one through many thousands of hours of use.



Power Source

The RF Power Source shares the same strong quality promise as other Fusion UV Systems' lamps and complies with all applicable industrial standards for RF equipment.

SPECIFICATIONS

System Designation

System Designation: PowerCure 1 (PC1)

Power Source: PCPS140

Lamp Head: PCL140

Input Voltages (50/60 Hz): 100-240 VAC ±10% (single phase)

System Ambient Operating Temperature: 0-45 degrees Celsius

Maximum Relative Humidity: 95%, non-condensing

Altitude: 0-2000 m

Mobility: Stationary rack mounted position

Power Source Model PCPS140

100% (RF) Power: 140 W

Input Voltages: 100-240 VAC ±10%, 50/60 Hz (single phase)

Max Line Current: 5 Amps

Dimensions (L x W x H): 483 mm x 283 mm x 206 mm (19.0 in. x 11.1 in. x 8.1 in.)

Weight: 7.3 kg (16 lbs.)

Rear Clearance: 102 mm (4 in.)

Stackable: Maximum of three units

Enclosure Finish: Textured powder coat

Line Power @ 100% Output: <500 W

Lamp Head Model PCL140

Output @ 100% Power: 140 W/inch

Bulb Type: D

Weight: 300 g (10.6 oz.)

Dimensions (L x W x H): 84 mm x 60 mm x 93 mm (3.3 in. x 2.4 in. x 3.7 in.)

Lamp Head Cable Length: 3 m (9.8 ft.)

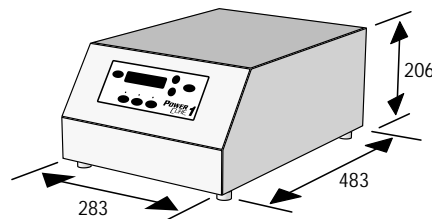
Cooling: Internal fan

Reflector Geometry: Elliptical (with bulb at focus)

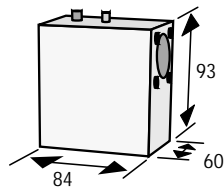
Substrate Location: 1.6 mm (.063 in.) from face of lamp, for peak focus

Mounting Position: Vertical

Footprint: 84 mm x 60 mm (3.3 in. x 2.4 in.)



Power Source Model PCPS140



Lamp Head Model PCL140

System Features

Features	Advantages	Benefits
Solid State Power Source	Greater Efficiency	Low cost of ownership Longer life of internal components
	Low Weight	Easy to mount and move
Lamp Head	Low Weight	Easy to attach and mount into machinery and fixtures
	Longer Bulb Life	Low cost of ownership
	Stable Spectral Output	Minimal cure variance over the life of the lamp head
	1" Wide Cure Width	Reduce need for UV amplifier accessories
	Compact Internal Cooling Fan	No external air/cooling supply Quiet Running No direct airflow toward substrate
Communication Protocol	Serial and Dry Contact	Computer Interface possible Capable of PLC control



FUSION UV SYSTEMS, INC.®

FUSION UV SYSTEMS, INC.
Corporate Headquarters
910 Clopper Road
Gaithersburg, Maryland
20878-1357 USA
301-527-2660
FAX: 301-527-2661
1-888-276-8600 (North American Toll Free)
www.fusionuv.com
e-mail: info@fusionuv.com

FUSION UV SYSTEMS WEST
Torrance, California
310-370-9920
FAX: 310-370-9152

FUSION UV SYSTEMS JAPAN KK
Tokyo, Japan
+81-3-5542-3980
FAX: +81-3-5542-3992

FUSION UV SYSTEMS
Spectris China Ltd.
Beijing, China
+86-10-6856-0808
FAX: +86-10-6802-9962
Guangzhou, China
+86-20-8756-8900
FAX: +86-20-8754-5144
Shanghai, China
+86-21-5385-5332
FAX: +86-21-6375-8139

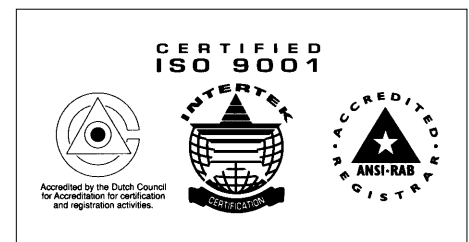
FUSION UV SYSTEMS
Singapore
+65-6844-5538
FAX: +65-6844-5539

FUSION UV SYSTEMS, INC.
Alton, England
+44-1-420-544-516
FAX: +44-1-420-544-138

FUSION UV SYSTEMS, INC.
Martinsried, Germany
+49-89-899 631-0
FAX: +49-89-899 631-10

FUSION UV SYSTEMS, INC.
Maisons-Alfort, France
+33-1-56-72-16-20
FAX: +33-1-48-99-76-11

Corporate Headquarters Certification



U.S. Patent No. 3911318; 3872349;
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U.K. Patent No. 1482950
Japan Patent No. 1142145; 1130584
France Patent No. 7428765
Canada Patent No. 1024246
Other U.S. and Foreign Patents Pending.

We reserve the right to incorporate changes and improvements without notice.

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