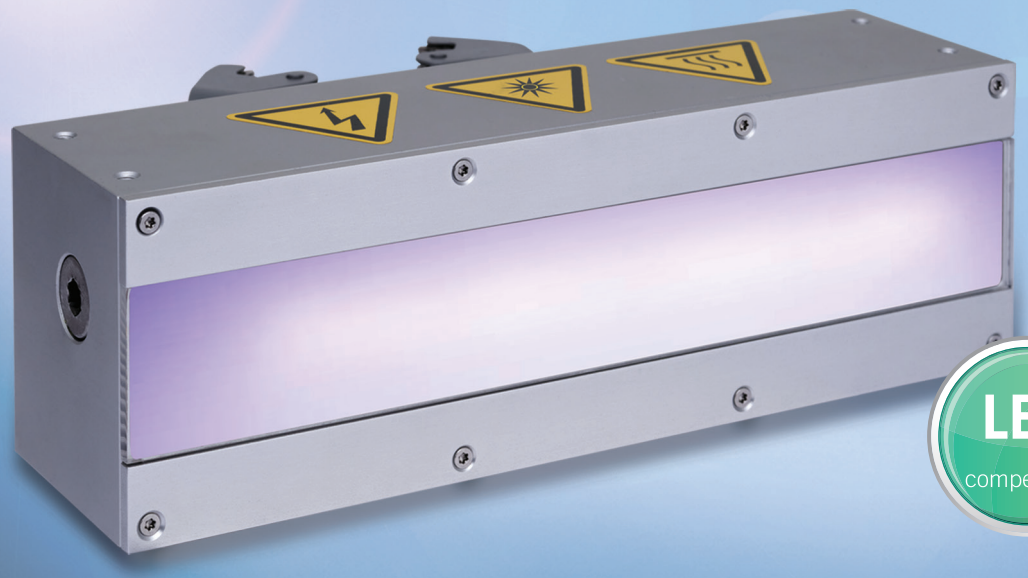
Semray® UV3004
LED Curing Solution

A stackable, backward compatible water-cooled LED system with higher output and durability



Reduced downtime
More than twice expected lifetime vs. current UV lamp technologies*

Enhanced productivity
Increased Production uptime, even in challenging operating environments

Backward compatibility
Easy retrofit and field replacement of existing systems

Stackable
Flexibility in edge-to-edge mounting of LED heads to span any distance

The global printing, coating and converting market projects 3-6% growth in the next 5 years, with diverse applications in a broad range of industries from batteries to industrial coatings. Excelitas Noblelight® LED systems bring high efficiency, stability and resilience to our customers.

Application: Printing, Coating & Converting including applications such as Display manufacturing, Battery film, Electronics, Medical Devices and Adhesives

* typical service life under standard lab environmental conditions

NobleLight

EXCELITAS TECHNOLOGIES®

Product Advantages:

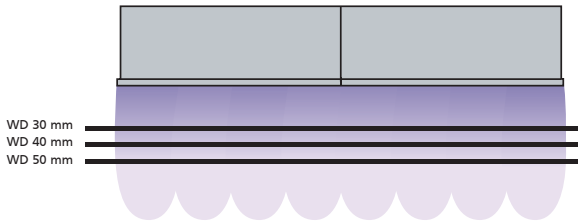
- Long lifetime >20,000 hours
- High intensity, robust & reliable water-cooled system
- Dimming from 40% to 100%
- Homogeneity >90% from 30 mm working distance
- Ease of handling by weight reduction of 80% compared to current UV system offerings
- Quick connect fittings for electrical and water connections

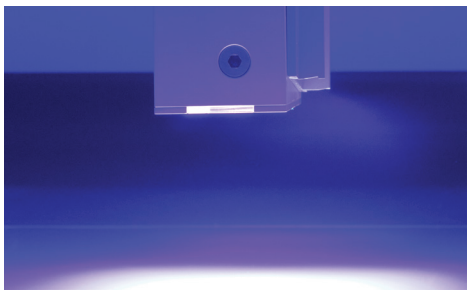
Customer Benefits:

- High productivity: significantly higher line speeds achievable
- Water cooling system eliminates expense and maintenance of cooling blowers
- Sustainable: No VOCs, CO_2, ozone, and mercury free

Specifications: Semray® UV3004

Semray® UV3004 irradiance uniformity test results:



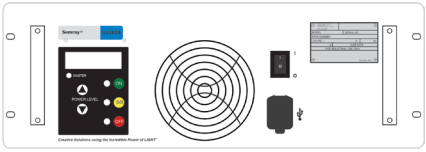


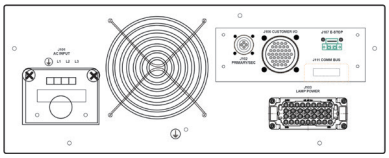
Model	UV3004 Segment			
Peak wavelength [nm]	365	385	395	405
Typical intensity at emission window [W/cm²]	14	20	20	20
Power consumption [W]	3,200 (Max.)			
Emission window (W x D) [mm]	267 x 42			
Dimensions (W x D x H) [mm]	267 x 85 x 152			
Operating temperature [°C]	10–40			
Operating humidity	80% (Max.)			
Cooling type	Water-cooled			
Coolant flow [L/min]	6–8			
Cooling water temperature [°C]	20–25			
Enclosure rating	IP54			

Power Supply

Input Voltages: 380–480 V ± 10%; auto-ranging.
Three-Phase, Delta: 50/60 Hz.
Output Range: 38–48 V.
Maximum Line Current: 11–7 A.
Power Factor @ 100% Power: 98%.
Dimensions (W x H x L): 483 mm x 175 mm x 827 mm with connector (19.0 in. x 6.89 in. x 32.56 in. with connector).
Weight: 16 kg (35 lbs).
Mounting Position: Horizontal, standard 19 in. rack mount chassis unit can be free standing, stacked, or rack mounted.
Clearance: Allow 305 mm (12 in.) rear clearance of the controller power supply for cooling air flow and cable connections. Allow 203 mm (8 in.) front clearance of the controller power supply for cooling air flow and front panel operation.
Stacking: 5 units maximum.
Enclosure Rating: IP20 (NEMA 1).
Safety Interlocks: E-stop; 2 external interlocks (customer I/O).
Front Panel Indicators/Controls: Power On/Off switch; USB port.
Display unit with ON/Standby/OFF buttons and Power Level control buttons.
Rear Panel Connectors: J101: AC Input power; J102: Primary/Secondary; J103: Lamp power; J106: Customer I/O; J107: E-stop; J111: Optional comm bus.
Power Level Control Options: 4–20 mA; 0–10 Vdc; OR front panel.
Communication Methods: Primary/Secondary (standard, dry-contact); DeviceNet™ Mark II (additional module required)*; Profibus® DP-V1 (additional module required); ProfiNet® RT (additional module required); EtherNet/IP™ (additional module required).
*Requires additional 24 V DeviceNet™ power supply.

Power Supply Model Semray® CPS4





ISO 9001 Certified QMS

Contact your local Excelitas Noblelight office for an engineered solution for your specific requirements.

Germany
Excelitas Noblelight GmbH
Reinhard-Heraeus-Ring 7
63801 Kleinostheim
Phone: +49 (6181) 35 8545
Fax: +49 (6181) 35 168410
hng-uv@heraeus.com
www.heraeus-noblelight.de

USA
Excelitas Noblelight
America LLC
910 Clopper Road
Gaithersburg, Maryland
20878-1357
Phone: +1 301 527 2660
Fax: +1 301 527 2661
info.hna@heraeus.com
www.heraeus-noblelight.com

Japan
Excelitas K.K.
Noblelight Division
Sumitomo Fudosan Otowa
Building 2F, 2-9-3
Otsuka, Bunkyo-ku
112-0012, Tokyo
Phone: +81 3 6902 6600
Fax: +81 3 6902 6613
info.hkk@heraeus.com
www.heraeus-noblelight.jp

China
Excelitas Noblelight (Shenyang)
Ltd. Shanghai Branch
2F, No. 399 Guangzhong Road
Minhang District
Shanghai 201108, P.R. China
Phone: +86 400 080 2255
Fax: +86 (0) 21 3357 5333
info.hns@heraeus.com
www.heraeus-noblelight.cn

South Korea
Excelitas Korea Corporation
13F, 156, Gwanggyo-ro,
Yeongtong-gu (Eui-Ddong,
Gwanggyo Business Center)
Suwon-si, Gyeonggi-do 16506
South Korea
Phone: +82 31 270 9443
Fax: +82 31 8064 1847
info.hk@heraeus.com
www.heraeus-noblelight.com