

UV LED Curing Solutions

Product Overview

Phoseon, an Excelitas Technologies brand, provides patented and proprietary LED curing solutions that offer high-performance and long lifetime. The Phoseon brand is 100% focused on LED technology and provides worldwide sales and support capabilities.



Capability

- In-house R&D
- Internal Manufacturing
- Thermal Management
- Custom Optics

Products

- Optimized Performance
- Rugged & Reliable
- Extensive Portfolio
- Long Lifetime

Solutions

- Patented Technologies
- Application Specific
- Engineering & Maintenance Services
- Scalable Lengths



Phoseon LED Curing Technology

The Phoseon brand utilizes its semiconductor, solid-state background to develop solutions. Our products combine LED arrays, advanced optics, thermal management, and electronic control to provide simple integration and trouble-free operation. Phoseon is an ISO 9001 certified corporation with over 2 million hours of internal LED lifetime testing.

Product Name	Emitting Width (mm)	UV Power (Per 25mm Length)	Key Features
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Nexus ONE™

Nexus ONE AC

Air-cooled 



300
375
450 x 20
525
600

65W

- Routine maintenance reduced
- No chiller needed
- Easy mounting with common form factor
- Ethernet communications
- Up to 220 m/min (720 ft/min) curing speed
- Flexographic applications

Nexus ONE WC


Water-cooled 



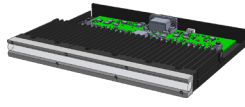

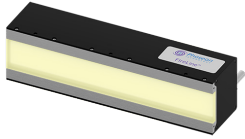
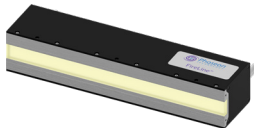



300
375
450 x 20
525
600
675

90W

- High power
- Quiet operation
- Rugged & reliable in tough environments
- Easy mounting with common form factor
- Ethernet communications
- Up to 320 m/min (1050 ft/min) curing speed
- Flexographic applications

Product Name	Emitting Width (mm)	Peak Irradiance (W/cm ²) @ Wavelength (nm):		UV Power (Per 25mm Length)	Key Features
		365	385/395/405		
FireJet™ Air-cooled 					
FireJet ONE	75 150 225 x 20 300 375	12	20	70W	<ul style="list-style-type: none"> • TargetCure™ technology • WhipserCure™ technology • High irradiance • Small form factor
FJ100	75 150 225 x 20 300 375	8	16	53W	<ul style="list-style-type: none"> • TargetCure technology • WhipserCure technology • Scalable • High irradiance • Digital/analog control
FJ240	75 150 225 x 40 300	8	16	130W	<ul style="list-style-type: none"> • TargetCure technology • Scalable • High dose • Digital/analog control
FJ801	100 x 100	1.2	1.7	42W	<ul style="list-style-type: none"> • TargetCure technology • Scalable • Exceptional uniformity • Separate controller • Area curing applications

Product Name	Emitting Width (mm)	Peak Irradiance (W/cm ²) @ Wavelength (nm):		UV Power (Per 25mm Length)	Key Features
		365	385/395/405		
FireEdge™ 					
FE410 	80 120 160 x 10 180 240	6	10	20W	<ul style="list-style-type: none"> • TargetCure technology • WhipserCure technology • Full cure • Optics options • Analog control • Small form factor
FE100 	80 120 x 10 180 240	1	2	3W	<ul style="list-style-type: none"> • WhipserCure technology • Natural convection cooling • Thin form factor • Analog control • Pinning and gelling
FireLine™ 					
FL440 	125 150 225 x 40 250 300	12	16	150W	<ul style="list-style-type: none"> • Scalable • High dose • High irradiance • Digital/analog control • High performance curing applications
FL400/FL400SLD 	125 150 225 x 20 250 300	12	24	100W	<ul style="list-style-type: none"> • Scalable • Digital/analog control • High performance curing applications
FL200 	75 125 x 10	10	25	30W	<ul style="list-style-type: none"> • Scalable • Separate controller • Ethernet control • Small form factor

Phoseon products are available in custom configurations for unique applications. Emitting window specifications refer to the dimensions (L x W). Irradiance measurements are taken at the emitting window. Phoseon systems are CE, RoHS, and REACH compliant.

Innovative Technology

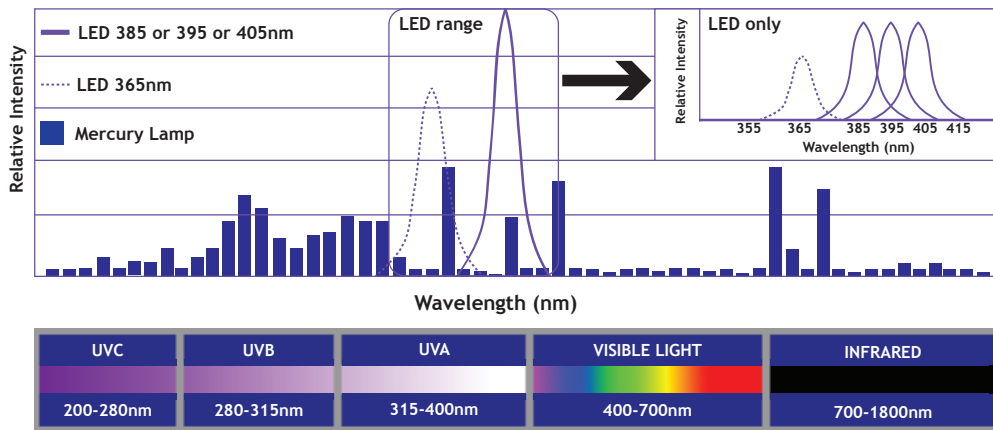
We pioneered and patented Semiconductor Light Matrix (SLM)[™] technology driving high-power UV LED technology to manufacture environmentally clean, cool operating, and highly efficient ultraviolet curing products.

Our components are strictly engineered into a system that provides maximum UV energy, controlled curing intensity, and superior performance for demanding applications including those using heat-sensitive and thin substrates.

TargetCure[™] and WhisperCure[™] technologies

Building on the SLM foundation are the patented TargetCure[™] and WhisperCure[™] technologies. TargetCure technology delivers precise, stable and consistent curing. WhisperCure offers a low-sound solution with increased UV output.

UV LED vs Mercury Wavelength



Modernize Your Process

Environmentally sustainable solution

Proven reliability with over 300 patents

Surpassing 70,000 hours of operational life

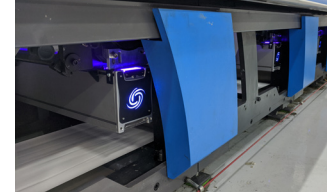
Shipped over 150,000 units worldwide

2 million hours of SLM lifetime testing

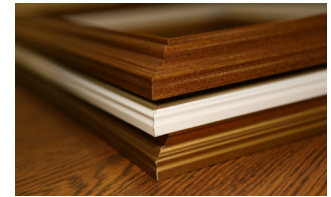
ISO certified company

APPLICATIONS

Our products are successfully curing adhesives, coatings, and inks in many demanding applications today.



Labels & Packaging



Wood Coatings



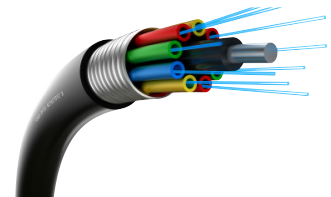
Electronics Manufacturing



Coding & Marking



Container Decoration



Fiber & Wire Coating