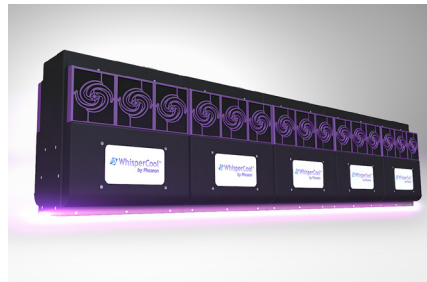# UV LED Curing Solutions

Product Overview

Phoseon Technology provides patented and proprietary LED curing solutions that offer high-performance and long lifetime. The Company is 100% focused on LED technology and provides worldwide sales and support capabilities.
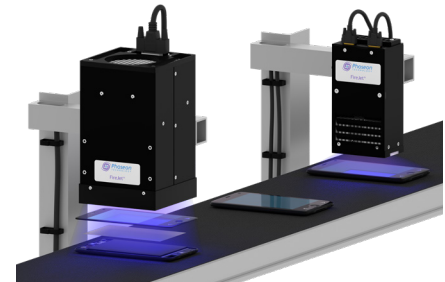
Company

In-house R&D

Internal Manufacturing

Thermal Management

Custom Optics

Products

Optimized Performance

Rugged & Reliable

Extensive Portfolio

Long Lifetime

Solutions
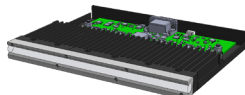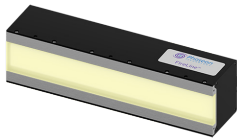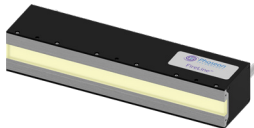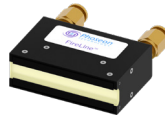
Patented Technologies

Application Specific

Engineering & Maintenance Services

Scalable Lengths

Phoseon LED Curing Technology

Phoseon 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)			Peak Irradiance (W/cm^2) @ Wavelength (nm): 365	Peak Irradiance (W/cm^2) @ Wavelength (nm): 385/395/405	UV Power (Per 25mm Length)	Key Features
Nexus™							**Air-cooled**
Nexus ONE	300 375 450 525 600	x	20	N/A	65 (W/cm)	65W	• Easy mounting with common form factor • Ethernet communications • Up to 220 m/min curing speed • Flexographic applications
FireJet™							**Air-cooled**
FireJet ONE	75 150 225 300 375	x	20	12	20	70W	TargetCure™ technology WhisperCure™ technology • Scalable • High irradiance • Small form factor
FJ100	75 150 225 300 375	x	20	8	16	53W	TargetCure™ technology WhisperCure™ technology • Scalable • High irradiance • Digital/analog control
FJ240	75 150 225 300	x	40	8	16	130W	TargetCure™ technology • Scalable • High dose • Digital/analog control
FJ801	100	x	100	1.2	1.7	42W	TargetCure™ technology • Scalable • Exceptional Uniformity • Separate controller • Area curing applications

Product Name	Emitting Width (mm)			Peak Irradiance (W/cm²) @ Wavelength (nm): 365	385/395/405	UV Power (Per 25mm Length)	Key Features

FireEdge™   Air-cooled

FE410

| | 80 120 160 180 240 | x | 10 | 6 | 10 | 20W | TargetCure™ technology
WhisperCure™ technology
• Full cure
• Optics Options
• Analog control
• Small form factor |

FE100

| | 80 120 180 240 | x | 10 | N/A | 2 | 3W | WhisperCure™ technology
• Natural Convection Cooling
• Thin Form Factor
• Analog Control
• Pinning and Gelling |

FireLine™   Water-cooled

FL440

| | 125 150 225 250 300 | x | 40 | 12 | 16 | 150W | • Scalable
• High dose
• High irradiance
• Digital/analog control
• High performance curing applications |

FL400

| | 125 150 225 250 300 | x | 20 | 12 | 24 | 100W | • Scalable
• Digital/analog control
• High performance curing applications |

FL200

| | 75 125 | x | 10 | 10 | 25 | 30W | • 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

Phoseon 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™ ⟐ WhisperCure™

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

UVC	UVB	UVA	VISIBLE LIGHT	INFRARED
200-280nm	280-315nm	315-400nm	400-700nm	700-1800nm
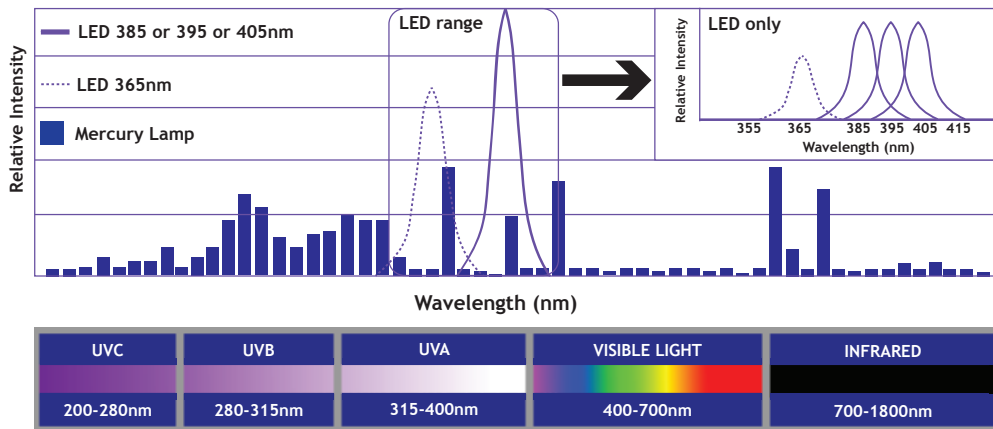
Stay Ahead with Phoseon

More than 300 patents and trademarks

Surpassing 70,000 hours of operational life

Shipped over 100,000 units worldwide

2 million hours of SLM lifetime testing

Thorough HALT testing process

ISO certified company
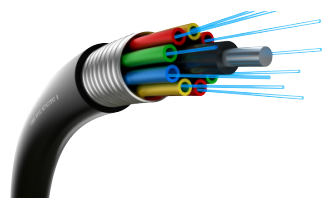
Electronics Manufacturing

Wood Coatings

Analog Printing

Digital Printing

3D / Additive Printing

Fiber & Wire