UV LED Curing Solutions
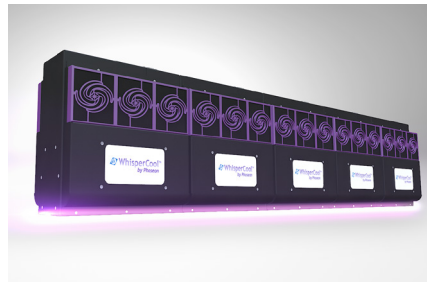
Product Overview

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.
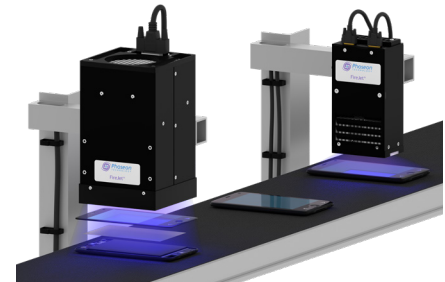
Company

In-house R&D

Internal Manufacturing

Thermal Management

Custom Optics

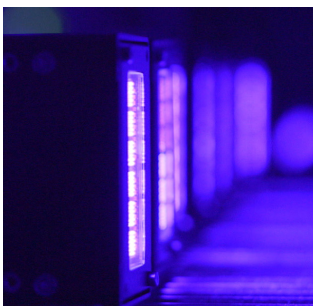### Products

Optimized Performance

Rugged & Reliable
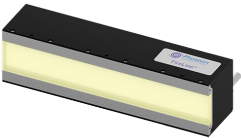
Extensive Portfolio

Long Lifetime

Solutions
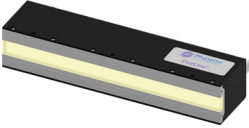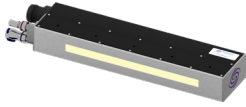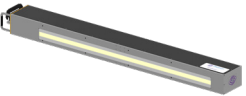
Patented Technologies

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 Window (mm)			Peak Irradiance (W/cm^2) @ Wavelength (nm): 365	385/395/405	UV Power (Per 25mm Length)	Key Features
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
FJ605	300 375 450 525 600 675	x	20	N/A	20	100W	TargetCure™ technology • High irradiance • Modbus/Analog Control • Flexographic applications
FJ801	100	x	100	1.2	1.7	42W	TargetCure™ technology • Scalable • Exceptional Uniformity • Separate controller • Area curing applications
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

Product Name	Emitting Window (mm)	Peak Irradiance (W/cm²) @ Wavelength (nm): 365	385/395/405	UV Power (Per 25mm Length)	Key Features
FireLine™					**Water-cooled**
FL440	125 150 225 x 40 250 300	12	16	150W	• Scalable • High dose • High irradiance • Digital/analog control • High performance curing applications
FL400	125 150 225 x 20 250 300	12	24	100W	• Scalable • Digital/analog control • High performance curing applications
FL200	75 x 10 125	10	25	30W	• Scalable • Separate controller • Ethernet control • Small form factor
FirePower™					**Water-cooled**
FP601	300 350 375 450 x 20 525 600 675	N/A	24*	100W	• High irradiance • Modbus/analog control • Flexographic applications *24W/cm² not available on 600, 675mm sizes
FP401	750 900 1000 1050 x 20 1200 1350 1500	N/A	24	100W	• High Irradiance • Flexographic applications • Longer lengths for wide-web printing

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
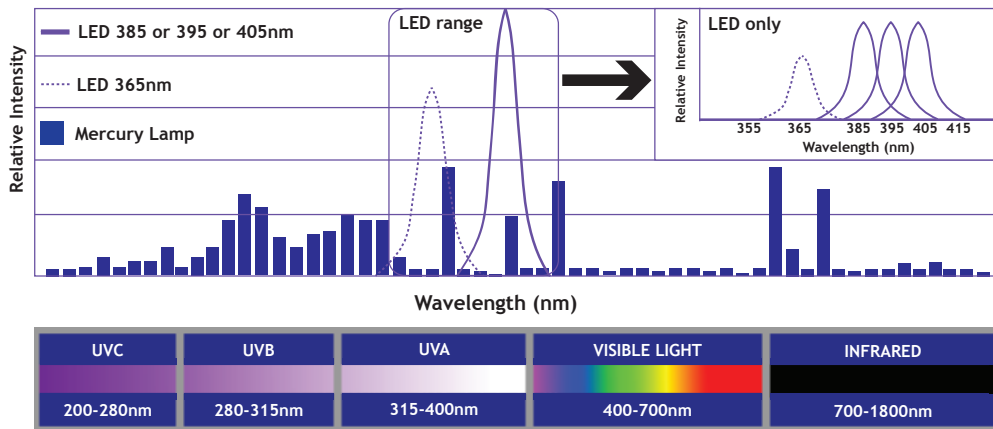
Stay Ahead with Phoseon

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

APPLICATIONS

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

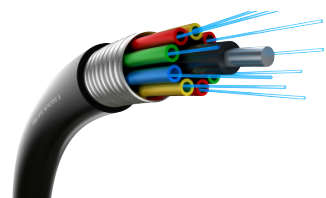Electronics Manufacturing

Wood Coatings

Analog Printing

Digital Printing

3D / Additive Printing

Fiber & Wire