Phoseon™ TECHNOLOGY

INNOVATIVE LED SOLUTIONS™

Corporate Overview

2022

Phoseon™ TECHNOLOGY

#1
LED CURING
INDUSTRY PIONEER

150,000
UNITS SHIPPED

100%
LED FOCUSED

70,000 HOURS LIFETIME
PROVEN RELIABILITY

300 PATENTS

OVER 20
YEARS IN BUSINESS

EXPERTISE
PRINTING, COATING, ADHESIVES
CHROMATOGRAPHY, IMAGING,
DISINFECTION, PHOTOCHEMISTRY

ENVIRONMENTALLY
SUSTAINABLE

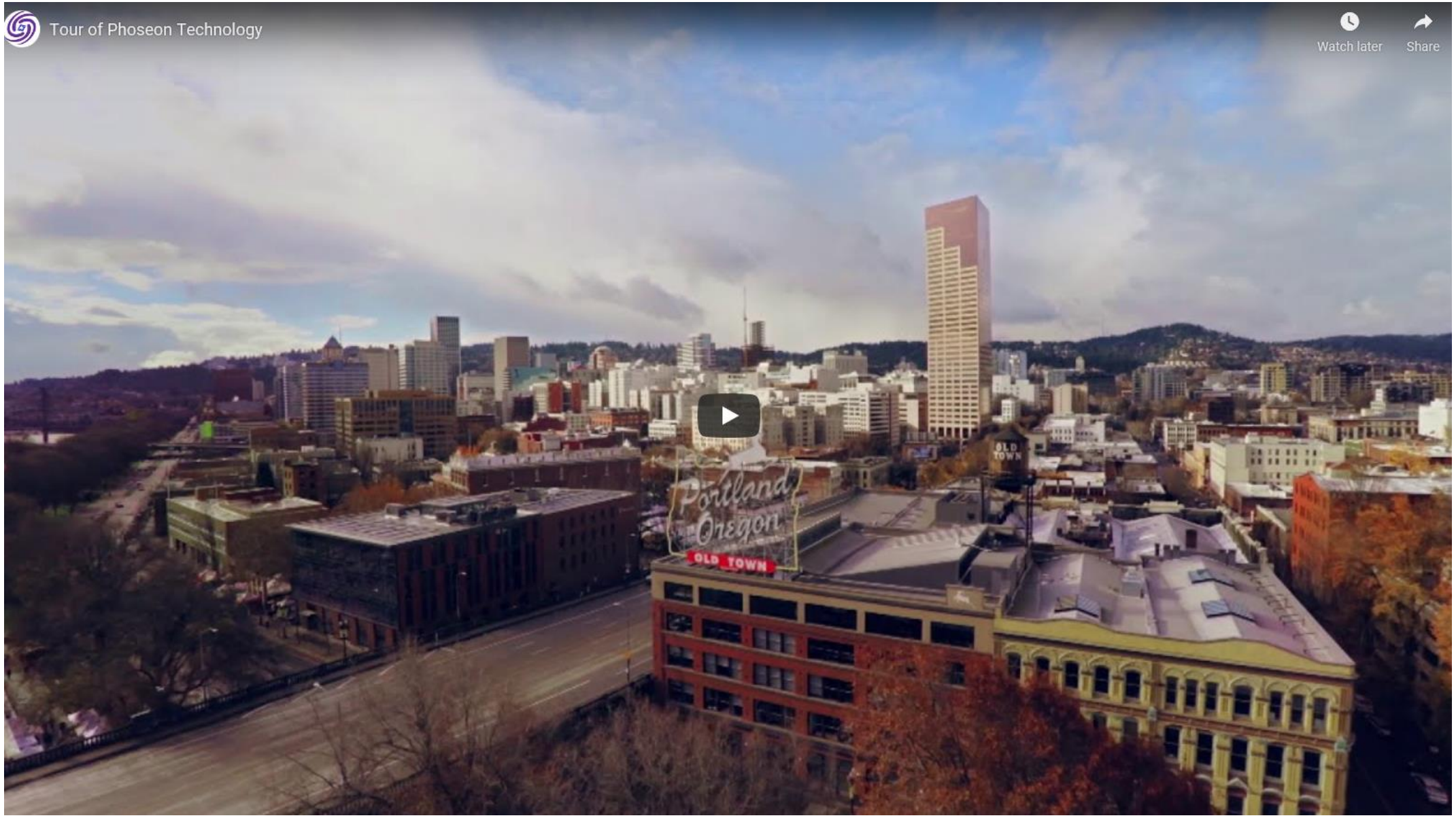
TECHNOLOGY MISSION: CONVERT LEGACY TECHNOLOGY TO SOLID-STATE WHILE ENABLING NEW APPLICATIONS

Corporate Mission and Quality Statement

Phoseon is dedicated to the development and advancement of UV LED Technology, offering a clean energy solution for UV curing applications.

Phoseon Technology is committed to design, build and provide the highest quality products with zero defects through continuous improvement in the effectiveness of the Quality Management System.

Video: Welcome to Phoseon Factory Tour

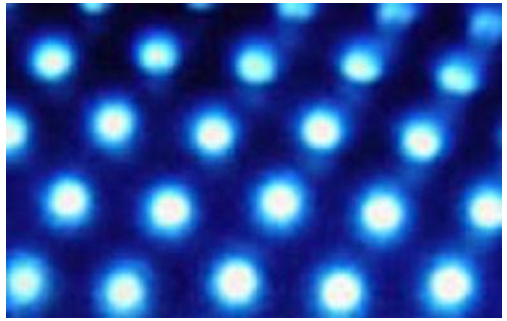


Patented Semiconductor Light Matrix Technology

Phoseon patented Semiconductor Light Matrix (SLM)™ technology encapsulates LEDs, Arrays, Optics and Cooling to maximize UV LED curing performance. Each of these four components are strictly engineered into a system that provides maximum UV energy and superior performance while also increasing long-term robustness for demanding applications.

LEDs

Phoseon builds complete light engines from individual diodes to maximize the total UV energy.

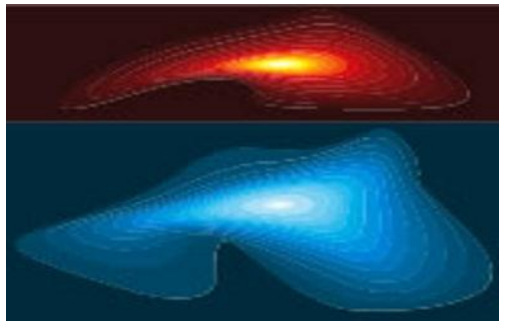


Arrays

Phoseon's array architecture insures the optimal performance and reliability for the system manufacturer.

Optics

Maximizes the amount of UV energy, lowers the heat, and provides application specific focused energy



Cooling

UV LEDs will last past 20,000 hours if they maintain proper operating temperatures.

The Future – Digital LED Technology

Factory 4.0 - The convergence of digital technologies and manufacturing processes

Process Control
LED offers better control = better yields

Data Flow
LED is a stable predictable technology

IoT
LED can be monitored, communicate, and controlled remotely

Minimal/Predictive Maintenance
LED has little to no maintenance

LED Benefits

Operating Economics

Energy Efficient
Long Lifetime
Low Temperatures

Advanced Capabilities

Only Desired Energy
Instant On/Off
Stable & Precise

Eco-Friendly

Mercury Free
No Waste Streams
Safer Workplace

Solid State Technology Across the UV Spectrum

Phoseon offers innovative UV light solutions for both life sciences and UV LED curing applications. By maximizing UV energy across relevant wavelengths, Phoseon offers a wide range of solid-state solutions across the UV Spectrum.

UV-C (200-280 nm)

- Decontamination & disinfection of surfaces
- Water disinfection
- Sterlization
- DNA analysis
- Fluorochemistry
- Mercury detection
- Sulphur detection

UVB and UVA (280-400 nm)

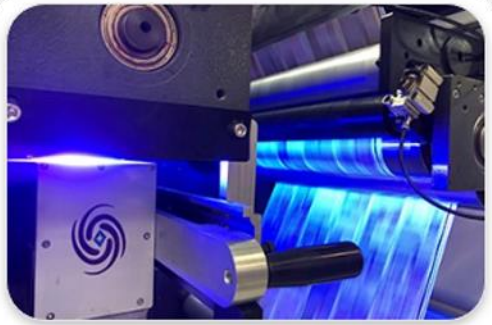
- Bacterial identification
- Fluorescence
- Medical imaging of cells
- Medical diagnosis
- Drug discovery
- DNA sequencing
- Detection of food contamination
- Nucleic acid visualization
- UV curing

Visible & Infrared (400-800 nm)

- Chromatography (HPLC)
- Flash chromatography
- Spectroscopy
- Optical detection
- UV/Vis
- Protein analysis (DNA)
- Nucleic acid analysis
- Evaporative light scattering detector (ELSD)
- Microplate readers
- Microscopy
- Transilluminator
- Polarimitry
- Ellipsometry
- Reflectometry
- Atomic absorbtion

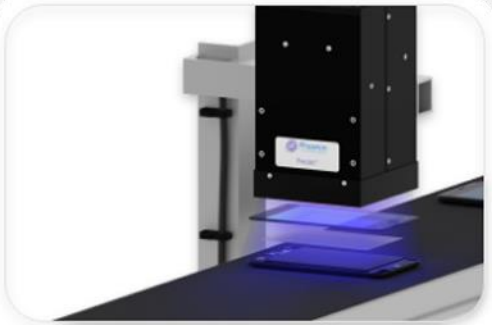
Application Segments

Phoseon offers innovative UV light solutions for both life sciences and UV LED curing applications. By maximizing UV energy across relevant wavelengths, Phoseon provides solutions to a wide-range of applications including:



Printing

Coatings

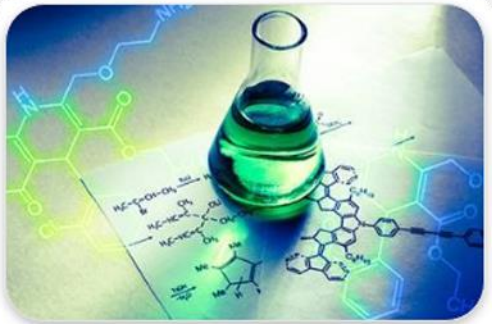


Adhesives

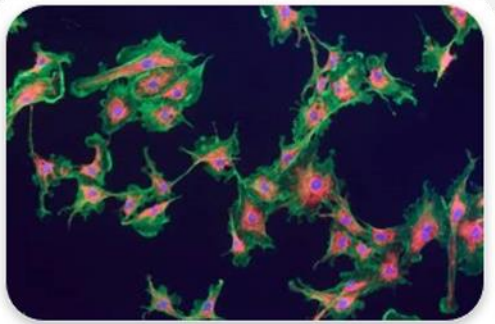
Industrial

Liquid Chromatography

Decontamination & Disinfection



Photochemistry Processes

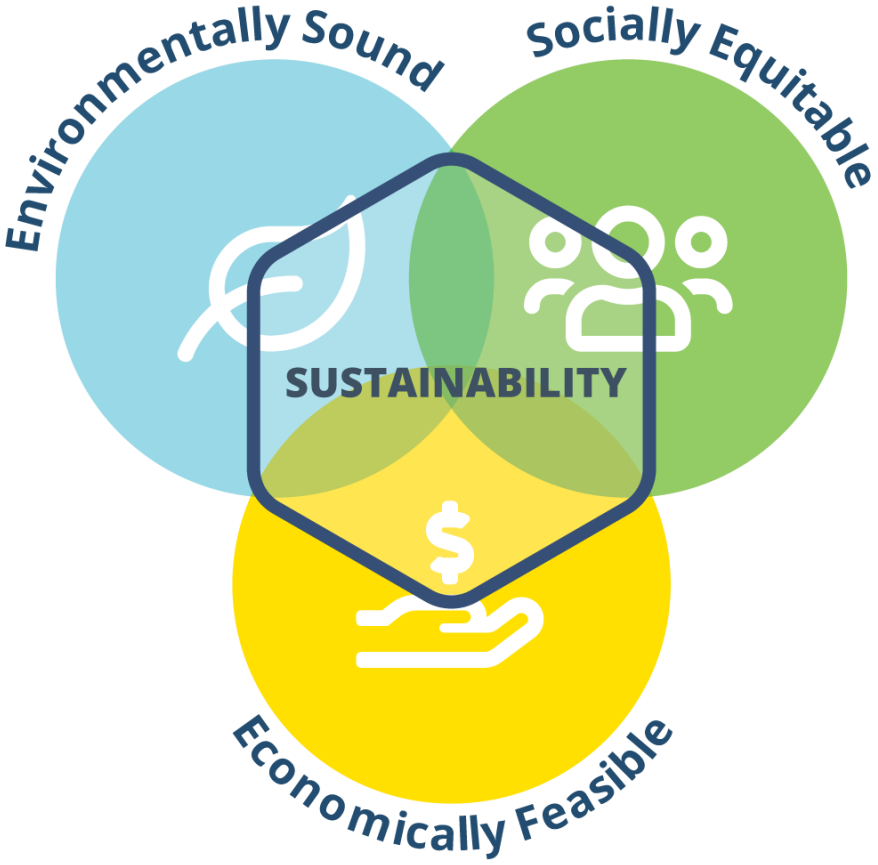


Fluorescence Microscopy

Sustainability

Corporate Responsibility

- ✓ Phoseon holds highly our social responsibility regarding sustainability.
- ✓ Phoseon is committed to preserving the environment through improved supply sourcing, manufacturing practices and product offerings.
- ✓ Phoseon is committed to protecting the health & safety of our employees and the employees of our customers and partners.



Sustainability

Environmentally Sustainable Products

At Phoseon, we are fully committed to the wellbeing of the environment. We continuously work to reduce the environmental impact of the products that we manufacture. Phoseon LED solutions offer consistent and reliable power output, eliminate greenhouse gases, and remove mercury from an entire category of industrial processes. Phoseon started the LED revolution for UV curing in 2002 and its products have collectively saved millions of pounds of CO2 emissions since inception. Led is the only sustainable choice for UV curing.

Allow us to contribute to your corporate sustainability objectives TODAY!

Worldwide Support