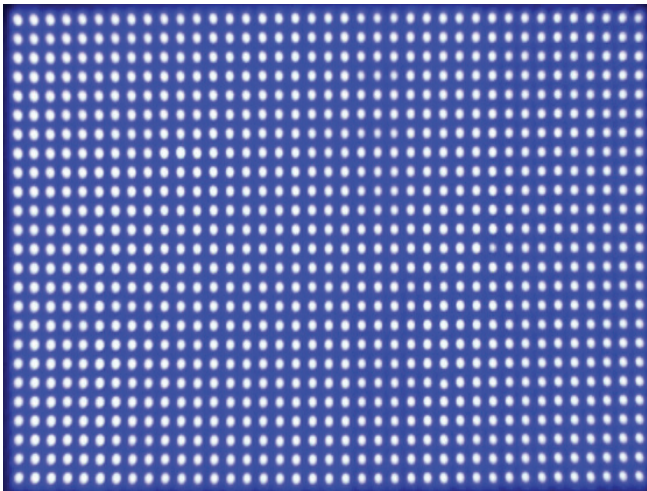


# LED Solutions for Life Sciences

## *Innovative LED Light Sources for Bio-Inactivation, Molecular Detection and Advanced Imaging*

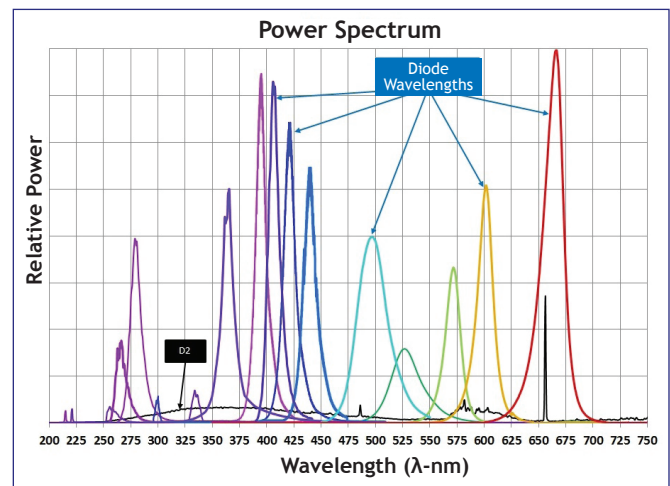
Phoseon Technology is the premier provider of LED solutions into the scientific, research and manufacturing markets. By maximizing LED energy across relevant wavelengths, Phoseon provides scientifically-grounded solutions to a wide-range of applications.

### Long-lasting SLM™ Technology



At Phoseon, we apply our extensive portfolio of technology to bring high-performance and high-power light sources to the life sciences market. Whether you are developing a new instrument for protein detection or a system for protecting patients from dangerous infections, Phoseon understands your needs and is the right partner for highly-reliable, efficient and specialized light sources.

### Relevant, Targeted Wavelengths



Conventional bulbs provide a broad spectrum of low-intensity energy, much of which is not useful. Users have dealt with sub-optimal solutions that require frequent replacements, hazardous waste handling, and potentially dangerous wavelengths. LEDs offer orders-of-magnitude higher power output within specific targeted wavelengths for disinfection, analysis, spectroscopy and fluorescent imaging.

## Decontamination



Standard techniques for decontaminating laboratory equipment can take hours using chemicals, heat, scrubbing, rinsing, etc. not to mention expense. This is particularly true regarding RNA processing where even miniscule amounts of RNase can impact library prep or sequencing due to its catalytic action.

Phoseon's high-power UV solution overcomes these challenges providing fast, inexpensive, and low-residue outcomes that can be used on a variety of common laboratory surfaces such as plastic, metal, glass, or ceramic.

## Chromatography



Conventional optical detection systems for chromatography and spectroscopy are bulky and slow to start, due to the arc lamps used as light sources. LED-based systems have a number of advantages, such as small size and immediate operation.

Phoseon has developed solid-state optical detection technology that covers the key relevant wavelengths in a compact package. Phoseon's solid state light sources provide for long life, low-noise, stable operation, and low heat emission.

## Disinfection



UV light inactivates microorganisms and biological material by disrupting the nucleotide sequence in DNA. The effect is like jamming a zipper, preventing gene expression and blocking reproduction.

Phoseon design systems that have stable, high output over time for consistent results. Additionally, low heat emission and precise control enable consistent disinfection of sensitive surfaces such as clinical instruments and plastics.

## Contact Phoseon

Since 2002, Phoseon Technology pioneered the use of LED technology for Life Sciences and Industrial Curing. Through our relentless innovation, we deliver high performance, reliable and patented LED based solutions. Our strong focus on customer collaboration has resulted in world-wide market leadership position and presence. Phoseon is an ISO9001 certified company manufacturing award winning products. We uniquely focus 100% on LED technology therefore ensuring superior reliability, business economics, and environmental benefits. For more information regarding Phoseon, please visit [www.phoseon.com/life-sciences](http://www.phoseon.com/life-sciences)