KeyLight™ OEM Light Source

- Small form factor for easy integration
- Enables high performance imaging
- Cost and energy savings
- Architecture supports various optical outputs as well as control devices
- Customizable to meet your application requirements
- Low maintenance and long life
- Software support

KeyLight™ OEM Light Source

KeyLight™ illumination sources for fluorescence microscopy deliver high performance imaging with easy integration for OEMs. Phoseon's proprietary LED solutions offer intense, broad-spectrum UV and visible wavelengths for a wide variety of colors from UV through visible into the infrared.

These compact light sources support 4 through 7 channel systems for greater flexibility depending on the application requirements. Phoseon's KeyLight is ideal for molecular or cell biology labs and OEMs who are looking for an affordable, energy-saving, customizable, high-quality, and low maintenance option that allows easy integration.

Upgrade your system now!

Phoseon developed KeyLight OEM light source for microscopy and fluorescent microscopy instruments to ensure reliable and accurate results for labs.

KeyLight products use proprietary and patented LED technology to provide users with a powerful solution that offers a precise and predictable UV output. LEDs are inherently low-noise, stable, cool and controllable. Phoseon takes its years of LED experience and over 300 technology patents to provide users with exceptional imaging products that can advance the life science innovation landscape.

KeyLight™

Small Form Factor

Bench space is precious and the biotechnology industry is running the race for powerful yet compact equipment. Keylight offers a small form factor that can place your lab at an advantage without sacrificing on performance.

Optimized for various system requirements

Keylight has been designed to be flexible and accessible for different field applications. With its ability to support 4, 5, 6, and 7 channel systems; it can accomodate a wide variety of needs. Customization of features makes Keylight a better choice for OEM integration.

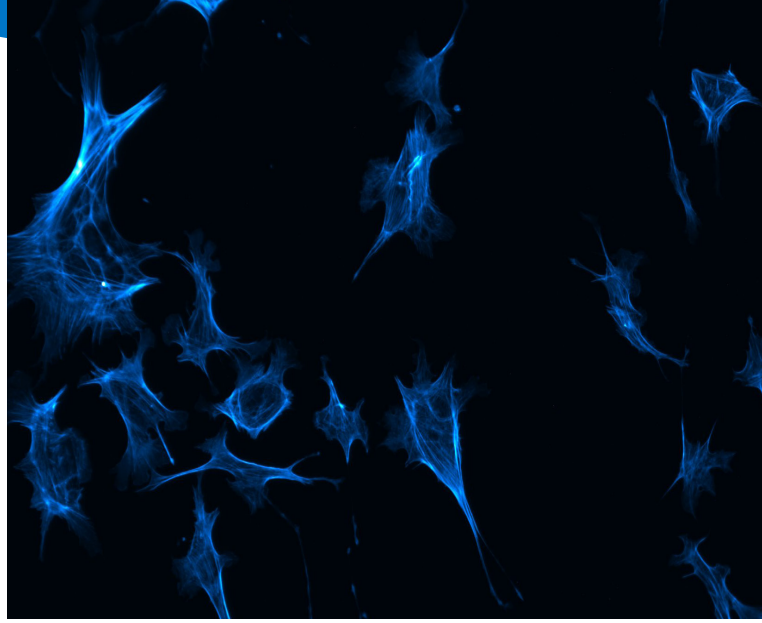
Phoseon™ TECHNOLOGY
INNOVATIVE LED SOLUTIONS™

Technical Specifications

KeyLight	KL400	KL500	KL510	KL700
Light Sources	4 all-on solid state light sources, white light	5 switchable solid state light sources		7 switchable solid state light sources
Wavelengths	390nm/475nm /555nm/630nm	390nm/475nm /555nm/630nm /730nm	377nm/475nm /543nm/560nm /631nm	386nm/438nm /485nm/549nm /560nm/650 nm /740 nm
Output	100-500mW min depending on channel			
Light Output	Close Coupled to a standard Olympus Microscope	Built-in output adapter for 3mm diameter liquid light guide (LLG)	1.5mm core Fiber with SMA connection & 3mm LLG	
Light Delivery	Close coupled to microscope with focus slide	Liquid light guide (LLG) output connects to microscope	Fiber or Liquid light guide (LLG) output connects to microscope	
Electronic Control	Light output on/off and graduated intensity control via USB-connected computer			
	Phoseon remote with ON/OFF and Intensity control of white light only			
	Phoseon Intensity control of white light only on body			
Power Requirements	External Power Supply 12 VDC 8.5A			
Dimensions (LxWxH)	160mm H x 125mm W x 77mm L (Excluding adapter and connectors)	16.0 cm x 14.0 cm x 16.0 cm	Approximately 200mm H x 140mm W x 220mm L	
Sound Level	< 60 dBA @ 1m			
Weight	3.75lbs	< 5Kg; < 11.02 lb	<15lbs	
Warranty	12 Months			
Ambient operating temperature range	15˚C to 30˚C			
Relative humidity	< 80% (non-condensing)			
Operating altitude	< 3,000M (9,850 ft)			
Certifications	RoHS, REACH, CE			

Available Wavelengths

Phoseon's proprietary LED solutions offer intense, broad-spectrum UV and visible wavelengths. Each model can be customized to specific wavelength ranges to allow for dye compatibility. Our light sources can be configured to support (not limited to – most dyes can be supported):



- FITC
- TRITC
- Cyanines
- Most Alexa dyes
- DAPI
- Hoechst
- BFP
- CFP

Contact us as our systems can be configured to most dyes

Availability of IR sources

The demand for infrared light is increasing in the field and needed for the majority of research in the biomedical sciences. Keylight provides high quality infrared LEDs that allow scientists to easily detect and see complex experimental data.

Semiconductor Light Matrix (SLM)™ Technology

Phoseon's patented Semiconductor Light Matrix (SLM) technology encapsulates LEDs, arrays, optics and cooling to maximize performance. These components are engineered into high intensity solid state light engines that enable significant process improvements for fluorescence microscopy.

About Phoseon Technology

Starting from 2002 in Portland Oregon USA, Phoseon Technology foresaw the value of LEDs for both Industrial Curing applications and Life Sciences solutions. Building from our strong background in solid-state semiconductor devices, we utilize native diodes to provide the optimum mix of power, uniformity and control for LED curing applications. The Company is 100% LED focused and provides both standard and custom solutions to OEMs and end-users worldwide.