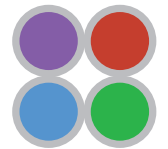


# PEKA light engine®

SOLID STATE ILLUMINATION FOR TRANSMITTED LIGHT



lumencor®



## White Light For Transmitted Illumination on Any Microscope Power and performance in a simple, white light producing light engine

The PEKA light engine is Lumencor's white light illuminator designed for use as a transmitted light source. PEKA couples directly to any major brand microscope and has no fan so produces no vibrations. Spectrally pure white light is generated with no harmful UV or NIR. PEKA may be manually operated or electronically triggered for millisecond timing control.

PEKA light engine integrates multiple solid state light sources. These include Lumencor's proprietary, bright green and yellow. The red/yellow/green/blue (RYGB) output is unique in its ability to maintain constant color temperature throughout all gain settings. Lumencor's white light PEKA can be driven at the same color temperature, regardless of the neutral density selection. This represents the only white light product on the market that can provide a consistent color temperature, regardless of output power. PEKA is a robust illuminator and a powerful alternative to the more traditional tungsten-halogen lamp.

Historically, white light from the transmitted light lamp port of a fluorescence microscope is satisfied with a bulb-based solution. Unfortunately however, tungsten-halogen bulbs have a different color output

in response to their drive current. Unstable color temperature, excessive heat generation, repeated bulb replacement and alignment, slow on/off times are inherent to such lamps and have meant all scopes that employed such out-dated lighting were wedded to these performance shortcomings. More recently purely LED solutions have been promoted to replace bulbs. However the white LEDs' phosphor can be excited by other sources in the incident light path in a fluorescence microscope causing background signal that reduces S/N. Lumencor's sources avoid causing any of these shortcomings and artifacts.

With no moving parts and a cool, clean package, the PEKA is ideally suited for mounting directly to the transmission lamp port of any major microscope. Mounting hardware compatible with all major microscope brands is available. Not only is PEKA vibration-free, but like all Lumencor's products, it is mercury-free.

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For more information on the PEKA light engine please contact us at Lumencor, Inc. at [info@lumencor.com](mailto:info@lumencor.com)

[www.lumencor.com](http://www.lumencor.com)

## TRANSMITTED LIGHT



### Cool, Compact, Efficient

Features	Details
Sources	White light based on the combined output of multiple sources
Wavelength Range	450 - 650 nm
Power	~ 300 mW white light
Speed	On/off rate > 100 Hz
Light Delivery	Direct mount to transmission lamp port of any major microscope
Easy to Install	Pre-aligned, simple to mount, no maintenance
Control	TTL on/off trigger of white output
Lifetime	> 20,000 hours with more than 70% initial, maximum intensity
Control Interface	Manual knobs for on/off and electronic neutral density equivalents TTL via BNC
Power Requirements	40 W, 24 VDC, 1.7 A
Weight, Dimensions (W x L x H)	~ 2 kg, 9.0 x 10. x 13 cm <sup>3</sup>
Warranty	12 months (parts and labor) to end user
Package Contents	PEKA light engine, power supply and cord



### GET IN TOUCH

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