



PEKA light engine®

WHITE LIGHT ILLUMINATOR FOR TRANSMITTED LIGHT MICROSCOPY

lumencor®



Reliable, Efficient and Long-Lasting Solid State Illumination Turnkey replacement for tungsten-halogen light sources

The PEKA light engine is Lumencor’s white light illuminator for transmitted light microscopy. Replacing conventional tungsten-halogen white light sources could not be easier. PEKA comes with built-in mounting adapters for direct coupling to the transillumination ports of all major microscope models. Because it is passively cooled, the PEKA transmits no vibrations to the microscope. No alignment or pre-configuration is required.

Once installed, the PEKA embodies the short-term and long-term benefits of solid-state illumination technology:

- White light is generated as a composite of outputs from three solid state sources. There are no superfluous and potentially damaging ultraviolet or infrared outputs

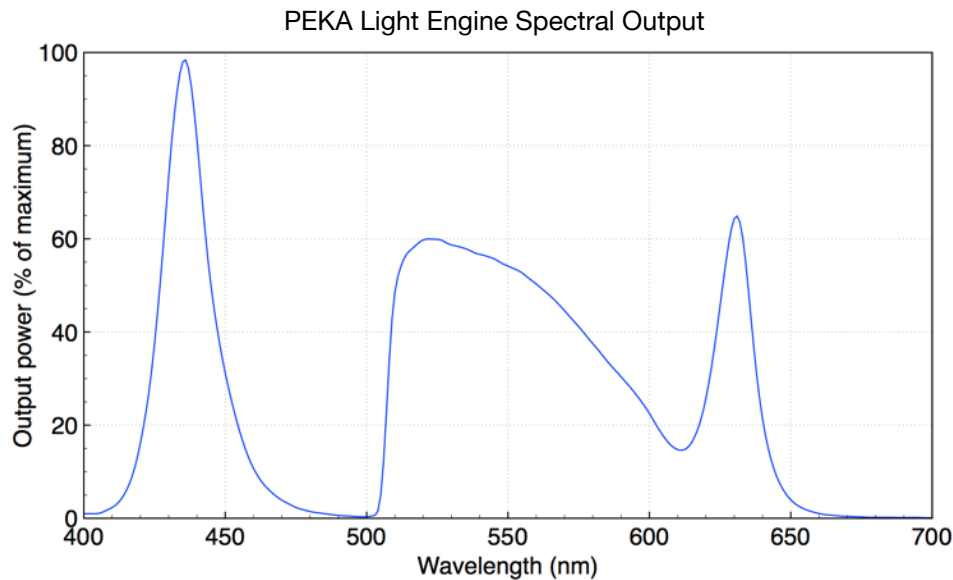
- The light sources do not contain phosphors with the potential to generate background signals via excitation from the facing epifluorescence light path
- No warm-up time. The PEKA does not need to be left running between imaging sessions
- Electronic adjustment of light intensity without neutral density filters
- Constant color temperature output at all intensity settings
- Low power consumption (~ 11W at full output)
- 20,000 hour operating lifetime
- No routine maintenance or consumables

The PEKA light engine is available in two configurations summarized in the table below, providing options with regard to on/off and intensity control locations.

Model	Control Location	Application
PEKA	Light engine side panel	Transmitted light microscopy on upright and inverted microscopes.
PEKA (Nikon Hub)	Nikon microscope base or NIS-Elements software	Transmitted light microscopy on Nikon upright and inverted microscopes.



PEKA light engine® • Cool • Compact • Efficient



PEKA Light Engine®: Features and Operating Characteristics

Features	Details
Sources	3 solid-state sources operating simultaneously to produce white light
Output Power	~ 85 mW
Output Spectrum	400–650 nm, shown in graphic representation above
CCT	5900 to 6300 for all gray levels
Installation	Direct mount to transmitted light illumination port of all major microscope models
Manual Control	On/off and intensity controls on PEKA or Nikon microscope stand
Software Control	NIS Elements (Nikon Hub model only)
High-speed Shutter	Electronic gating of light output at > 5 kHz via TTL control signals
Lifetime	20,000 hours with >70% original output intensity
Consumables	None
Warranty	18 months
Power Requirements	40 W, 9 VDC, 4.45 A. Power supply and cord included with all orders.
Dimensions (W x L x H)	9 cm x 15 cm x 11 cm
Weight	<2.0 kg



GET IN TOUCH

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