

SOLA SE II light engine®

SIMPLIFY WITH SOLID STATE, NO MORE BULBS



- ▶ Brighter
- ▶ Quieter
- ▶ Cleaner optics
- ▶ New safety feature: LLG interlock
- ▶ Lower power consumption
- ▶ Reduced footprint
- ▶ More robust for harsh environments



Solid State, White Light Excitation Subsystem

A Stable, Robust, Long-lived, Arc Lamp Replacement

Lumencor offers microscopists and the life sciences a truly bright, automated arc lamp replacement with the release of the SOLA SE II light engine. SOLA SEs produce white light in the form of continuous spectral output from 380 to 680 nm and are suitable for imaging all the most common fluorophores and fluorescent proteins.

This SOLA SE builds on Lumencor's core, patented solid state light source technology. The output of a family of sources is combined to generate optical power exceeding that of traditional scientific lamps.

Lumencor exceeds lamp performance in the form of powerful, cool, stable, robust, UV- and IR-free light production AND allows the user simple integration with existing filter cubes and hardware configurations. This additional flexibility provides individual users, core facilities and OEMs a superior excitation subsystem.

SOLA SE light engines can be readily controlled by most microscopy software packages. Shutter control via BNC and USB connections come with every unit. The SOLA SE can be integrated with high end

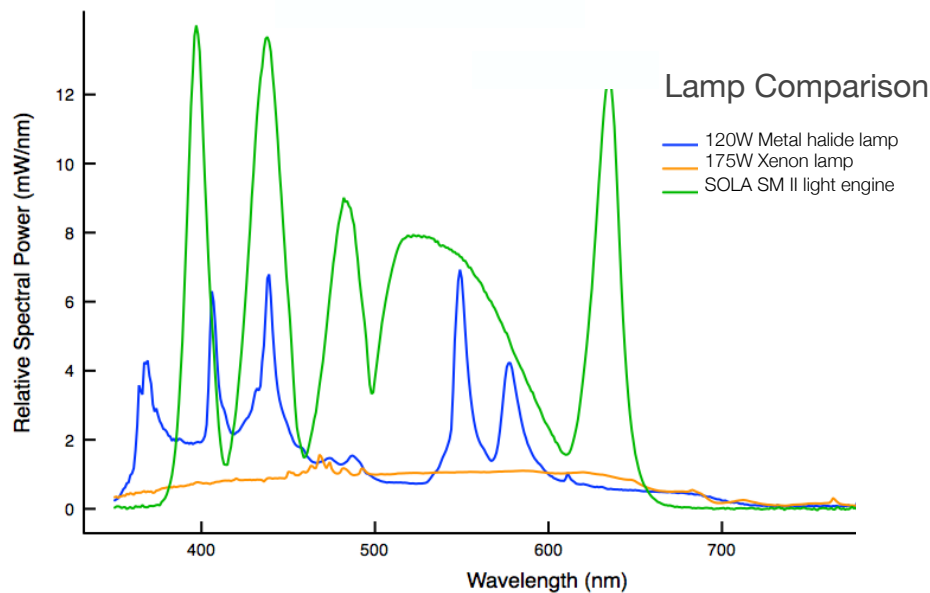
cameras. In so doing, they enable light blanking during frame readout. This prolongs sample life and minimizes photobleaching during sample illumination.

No replaceable parts make this product the most cost effective white light source on the market. Customers will never again have to worry about arc lamp alignment, installation and replacement. Bulbs will become obsolete. The expected lifetime of the SOLA SE is greater than 20,000 hours. Short warm-up time and superior stability mean these are all usable, working hours with highly reproducible output power. Units ship with a three year warranty covering any failures with the light engine including parts and labor.

All light engines are mercury free and RoHS compliant.

For more information on SOLA SE II light engine please contact us at Lumencor, Inc. at info@lumencor.com.

SOLA SE II light engine® > 20,000 Hours of Bright Visible, White Light



A solid state arc lamp replacement

More power, more stability, longer lifetime

Features	Details
Sources	Multiple solid state sources operating simultaneously
Wavelength Range	Visible, white, 380 - 680 nm, No UV or IR light
Power and Intensity	~ 2.5 W power and ~ 30-40 W/cm ² intensity with 3 mm dia liquid light guide (LLG)
Switching Speed	~1 kHz on/off time
Light Delivery	3 mm dia liquid light guide; LLG and microscope collimator sold separately
Easy to Install	Pre-aligned, no maintenance
Lifetime	> 20,000 hours, 36 month warranty to end user
Control Interface	On/Off switch, foot pedal plug located on rear panel, numerous software drivers Shutter control via BNC and USB inputs Optional touchpad controller
Easy Camera Synchronization	Command control for on/off and electronic shutter
Power Requirements	120 W, 24 VDC, 5 A
Weight, Dimensions (W x L x H)	3.6 kg, 12.5 x 16.3 x 26.3 cm ³



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