

SOLA_{MANUAL}LIGHTENGINE

September 2012

easy operation



SOLA SM light engine solid state, white-light excitation subsystem

State of the Art Solid State Lighting for Microscopists and Instrument Manufacturers

The SOLA SM light engine is a high performance illumination source that's as easy to operate as the light switch in your hallway. Powerful, solid state sources produce an intense spectrum of light from 380 to 680 nm, providing bright illumination of the visible wavelengths you need with no unwanted UV or Near IR to compromise your experiment.

Like all Lumencor light engines, the SOLA SM is extremely stable with less than 2% drift over 24 hours of continuous operation. Warmup time is essentially instantaneous, with stabilized output achieved in 1 second with the flip of a switch or a tap of the foot-pedal.

Simplicity of operation and

stable, long-term use were primary goals of the SOLA SM light engine design. This is an arc lamp replacement that boasts all the advantages of solid-state sources. Why would anyone use an arc lamp when the SOLA SM produces more light with less power, requires no maintenance, generates very little heat and is highly efficient in a compact design? The SOLA SM light engine is an economical choice because bulbs don't need to be replaced, power consumption is low and the working lifetime of the product far exceeds that of a lamp.

Included with the SOLA SM is a foot-pedal switch, power cord and a 3 mm diameter liquid light guide. Not

included are the dangerous doses of mercury and other hazardous materials found in metal halide and mercury bulbs which pollute our air, land and water.

While SOLA SM is very simple to operate, be assured it is also very powerful. Expect 3-4 watts of visible light pumped through the light guide, giving ample intensity for the most demanding microscope applications.

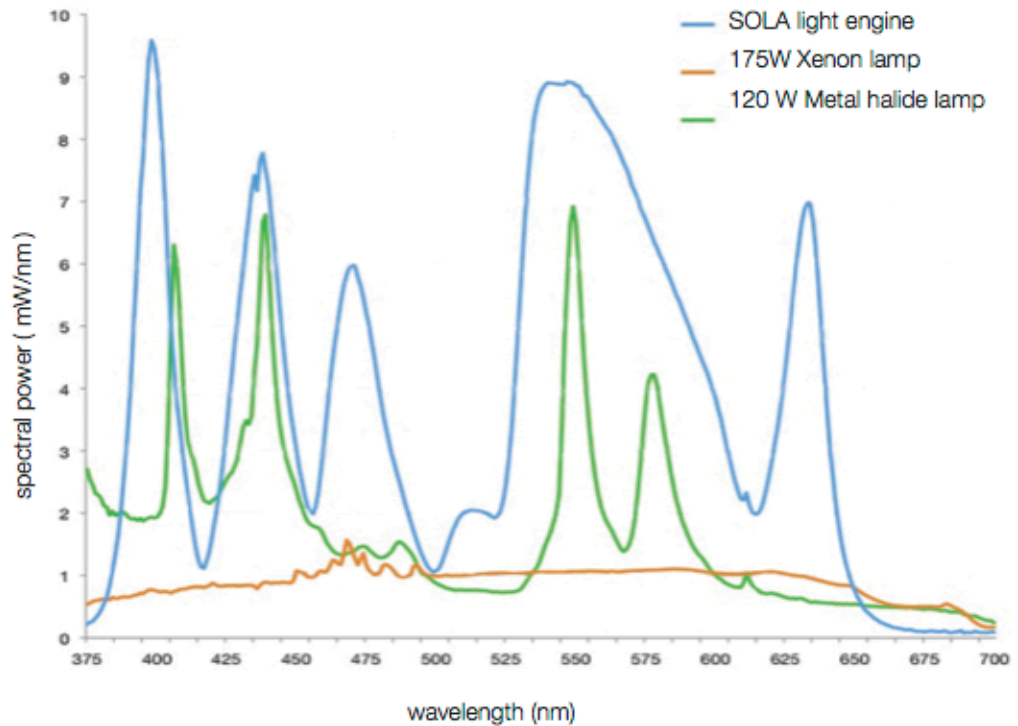
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SOLA SM light engine

SOLA SM LIGHT ENGINE

excellent investment



> 20,000 hours of visible, white light
 Low priced, powerful white light, with no UV or NIR

lumencor® High performance, stable, robust lighting with easy operation at an affordable price

FEATURES	DETAIL
Source	multiple solid state sources operating simultaneously to produce white light
Wavelength range	380 - 680 nm
Power & Intensity	3 - 4 W power and ~ 40-50 W/cm ² intensity with 3 mm diameter liquid light guide
Warmup time	1 second
Light delivery	3 mm dia liquid light guide; light guide and adapter included; microscope collimator sold separately
Easy to install	pre-aligned, simple to operate, no maintenance
Lifetime	> 20,000 hours, 12 month warranty to end user
Control interface	On/off switch on front panel and foot-pedal switch plugs directly into back panel; TTL input for camera trigger available via BNC on back panel
Power requirements	220 W, 28 - 30 VDC, 8 A, power supply included
Dimensions (W x L x H)	9 x 18 x 23 cm ³
Weight	light engine = 3.6 kg ; total shipping weight = 8.0 kg
Package contents	SOLA SM light engine, Power supply and cord, Foot-pedal and cable, 3mm diameter liquid light guide adapter and 2m liquid light guide