

# SPECTRAPRODUCT

November 2011

# $\lambda$ breadth

SPECTRA light engines provide the most spectral breadth of any solid state illuminator on the market today with superior power and intensity.



**lumencor**<sup>®</sup>

## SPECTRA light engine

up to seven discrete, solid state UV-VIS-NIR outputs

State of the Art Solid State Lighting for Instrument Manufacturers

Lumencor's light engines are unique, solid state illuminators, ideally suited for use with fluorescence microscopes and bioanalytical instruments. SPECTRA light engines enhance overall microscope performance and reduce cost. Flexible designs provide up to seven color bands with a variety of delivery optics.

The SPECTRA is optimized for the most common fluors and fluorescent proteins used in bioanalysis today. Bright outputs cover the visible spectrum and beyond, with particularly impressive performance in the typically underserved spectral regions- green, yellow and red. The

optically independent outputs are well suited for both live and fixed cell analysis. Bandwidths for any SPECTRA light engine may be tailored for specific spectral needs.

All outputs are optimized for high performance in terms of stable, durable, powerful, switchable light. Output power is independently selectable for each color band. Microsecond switching among color bands (5-10 kHz) is enabled electronically-eliminating all mechanical shuttering. SPECTRA light engines are the ideal choice for customers who wish to address unique spectral bands with independent electronic control in

systems critically synchronized with camera exposure times.

SPECTRA light engines may be used with any major brand microscope, connecting via direct couple, liquid light guide or optical fiber. SPECTRA light engines require no maintenance. No bulbs need replacing and systems are pre-aligned. Units ship with a 36 month warranty.

For more information contact:

**Lumencor, Inc.**

14964 NW Greenbrier Parkway  
Beaverton, OR 97006 USA  
T 503-213-4269  
E [info@lumencor.com](mailto:info@lumencor.com)  
[www.lumencor.com](http://www.lumencor.com)

SPECTRA light engine

# LIGHT ENGINES

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# flexibility

Lumencor's SPECTRA X light engine offers the additional option of filter selection. The user may select and modify the bandpass of each output independently with the use of field replaceable single pass filters.



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## SPECTRA X with exchangeable filters

Light engine with flexible bandpass options

State of the Art Solid State Lighting for Instrument Manufacturers

Lumencor offers the spectral breadth of an arc lamp and the flexibility of a filter wheel in its most powerful light engine design.

The SPECTRA X model affords the end user the ability to exchange single band pass filters within the light engine. These field replaceable filters mean Lumencor can offer as many as 21 different bandpasses for use within the visible spectrum. No moving parts reside in this SPECTRA model. Lumencor preserves performance in the form of cool, stable, robust, spectrally pure, powerful outputs and allows the user to make his or her own choices about bandpass during use in

the field. This additional flexibility allows individual users, core facilities and OEMs an adaptable solid state excitation subsystem on par with the flexibility of a filter wheel.

This product ships with six independent sources. A suite of seven filters, one for each color band, is included in the purchase. Additional filter paddles and filters may be purchased at any time to increase the range of bandpasses for the ensemble of sources within the light engine.

The flexibility of this product accommodates increases in demand on the part of its end user for a broader range of outputs. Each output

in the optical train of the light engine remains aligned through filter exchanges, allowing the user to focus on their science, not the need to realign and maintain a light source.

For more information on the SPECTRA X light engine, please contact:

### Lumencor, Inc.

14964 NW Greenbrier Parkway  
Beaverton, OR 97006 USA  
T 503-213-4269  
E [info@lumencor.com](mailto:info@lumencor.com)  
[www.lumencor.com](http://www.lumencor.com)

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Melb: (03) 9480 4999  
Syd: (02) 9705 8059  
Email: [sales@scitech.com.au](mailto:sales@scitech.com.au)  
[www.scitech.com.au](http://www.scitech.com.au)