



Multicolor, High Power Light Engines

Product Description

Lumencor's light engines are uniquely suited to provide for the needs of bioanalytical instruments. **High power, multi-color, narrow band, stable, durable and inexpensive light is generated across the UV-Vis-NIR spectrum.** Lumencor light engines will enhance overall instrument performance and reduce cost.

Life Science Applications

Leveraging developments in materials science, optics and solid state physics, light engines are well suited for a broad array of applications: clinical chemistry and immunoassay analyzers, flow cytometers and high content screening, microarray readers, microfluidic analysis, microtiter plate readers, optical microscopes, sensors, sequencing tools, etc. They readily replace traditional light sources in existing instrument architectures with a single, simple unit. These free standing optical subsystems will simplify manufacturing of new tool designs.

Light Engine Features

Lumencor provides the most competitively priced photons of any commercial light engine. Flexible designs provide single or multiple wavelengths with a variety of delivery optics. Features include sufficient light for low, moderate and high light level applications; fast exposure times; facile modulation and long lifetimes.

Color Selection*

	VIOLET	BLUE	CYAN	GREEN	YELLOW	RED
Nominal Output λ , nm	395	445	480	550	575	650
Color Selection*	379 - 399	436 - 455	460 - 492	527 - 556	560 - 589	640 - 657
λ Width (> 90%), nm	20	19	32	29	29	17
10-6 cutoff λ , nm	365 - 405	423 - 464	452 - 499	521 - 566	552 - 596	632 - 665
Pulsed or CW Power, mW **	200	250	200	100	100	75

* Alternative peak wavelengths and bandpasses available for each output

** Power outputs quoted for 0.3 NA, 3 mm dia exit aperture from light engine

Options

- One to seven wavelengths
- Wavelength range can be tailored for specific application
- Liquid light guide (LLG) interface or direct microscope coupling available
- Modulation capabilities: 5 kHz
- Computer (TTL, RS232, USB) or manual control

Specification



Spectral Stability	< 0.5 %
Output Stability	< 2 % peak to peak
Warm up time	< 1 minute
Lifetime	10,000 hours
Operating Conditions	0 - 50 C, 0 - 80 % humidity
Electrical Requirements	110V or 220V
Dimensions	9 x 18 x 23 cm

Contact

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