AURA light engine®

Flexible Light Source Configuration with Performance That Shines

lumencor®

Ideal OEM illumination platform for biophotonics

Application-Specific Spectral Output Customization

Lumencor's AURA light engine provides a flexible platform for integration of solid state light sources in customized configurations. Key features of the AURA light engine include:

- Up to 5 independently controlled (on/off and intensity) solid-state light sources
- Refinement of source spectral outputs using integrated bandpass filters
- Can be configured with 2 luminescent light pipe sources, separately filtered for green and yellow outputs
- Can be configured with independently controlled violet (395 nm) and ultraviolet (365 nm) sources
- Available near-infrared source (735 nm) option
- 100–700 mW per source color channel (dependent on filtering)
- >4 W unfiltered total output
- Integral output adapter for liquid light guide or optical fiber delivery

The AURA light engine is an ideal platform for manufacturers seeking to integrate modern solid-state illumination into new bioanalytical instruments. Source configuration flexibility allows the spectral output of the light engine to be customized according to application-specific requirements. Furthermore, AURA provides temporal and spatial control over light delivery, meeting the demands of applications such as optogenetics and microfluidics. Notably, the AURA light engine can be configured with two Lumencor-proprietary luminescent light pipes to provide hundreds of milliwatts of green (520–560 nm) and yellow (560–590 nm) illumination with switching from one to the other in about 10 microseconds.

Users can look forward to years of stable, electronically controlled light output without the burden of maintenance, alignment or replacement part expenditures. Like all Lumencor light engines, AURA is mercury-free.

For more information on the AURA light engines please contact us at Lumencor, Inc. at info@lumencor.com.

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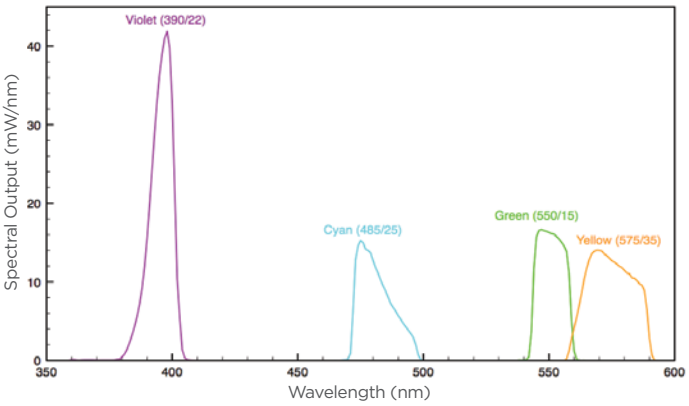
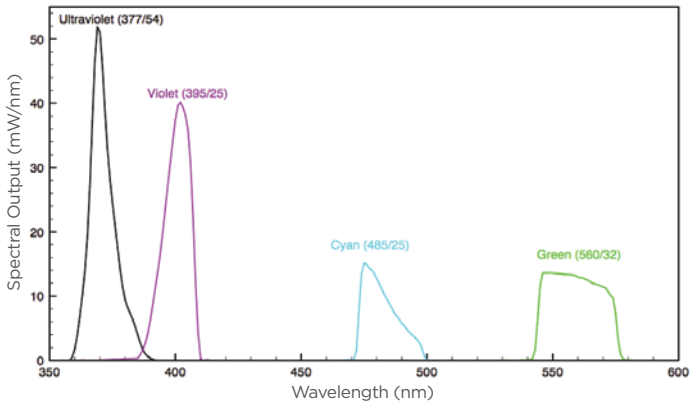
Flexible Configuration - One Exemplary Mix

4 Sources - Violet, Cyan, Green, Yellow



4 Sources - UV, Violet, Cyan, Green



Features and Operating Characteristics:

Features	Details
Sources	Up to 5 independently selectable solid-state light sources
Output Spectrum	Source output spectra refi ned using integrated bandpass filters[1]. Examples shown above
Output Power	100–700 mW[2] per source channel (dependent on filtering)
Light Delivery	Liquid light guide (LLG) or optical fiber[3]
Control Interface	Electronic only. Source selection, on/off switching and intensity adjustment by serial commands from computer or GUI. TTL source selection and on/off switching
Control Ports	(1) Front panel RS232 port (DB9) for serial connection to computer or pod controller (2) Front panel DB15 connector for TTL source triggering
Speed	TTL-triggered source channel switching up to 10 kHz
Power Requirements	220 W, 24V, 9.2A DC power supply included
Dimensions (W x L x H)	12.5 cm x 26.3 cm x 16.3 cm
Weight	3.6 kg
Package Contents	AURA light engine, power supply and region-specific power cord
Optional Accessories	Light Engine Controller Pod (83-10007). Compact dial + push button controller for source selection, on/off switching and output intensity adjustment DB15 to BNC breakout cable for TTL source triggering

[1] Specify bandpass filters when ordering. Filters are not field-exchangeable. [2] Output from 3 mm diameter liquid light guide. [3] Specify fixed output adapter for liquid light guide or SMA-terminated optical fiber when ordering.

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