

MIRA light engine®

COMPACT SOLID STATE LIGHT SOURCE FOR FLUORESCENCE MICROSCOPY



Ideal for Clinical Laboratories

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

The MIRA light engine is Lumencor's high performance solid state illumination subsystem designed for routine, clinical fluorescence microscopy applications. The advent of this compact yet powerful excitation light source is timely, as fluorescence microscopy is increasingly being used in diagnostic pathology as a more rapid and sensitive counterpart to conventional histological analysis techniques. MIRA directly mounts to all major manufacturer's clinical microscopes and is completely maintenance-free.

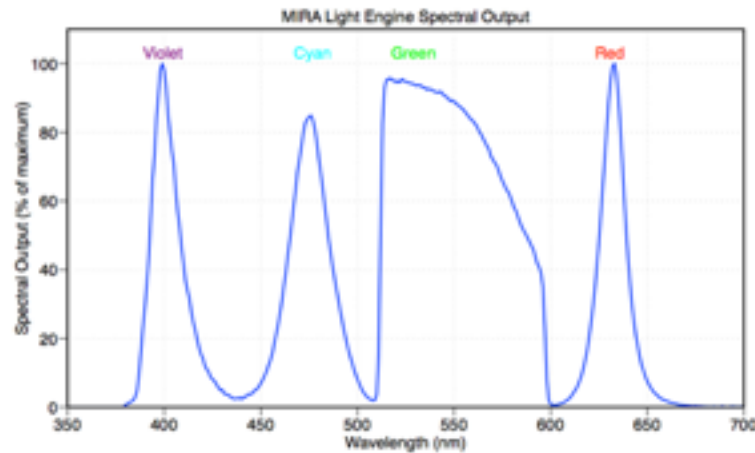
The MIRA light engine delivers powerful, stable and responsive fluorescence excitation. The violet, cyan, green and red light source outputs are optimized for efficient excitation of DAPI, FITC, TRITC, Cy5 and other similar fluorophores. Each source can be turned on/off independently or used in combination to generate white light output. Furthermore, independent control of source output intensities facilitates balancing of fluorescence signals in 2-, 3- and 4-color imaging applications. Source selection control allows users to excite two, three or four fluorophores in a multi-labeled specimen one at

a time through a multi-band exciter. Thus excitation selectivity can be obtained without the need for mechanical filter interchanges using filter wheels or other positioning devices. Source selection and intensity settings are controlled with two manual knobs or an optional touchscreen control tablet. An electronic shutter controlled by DC levels applied to a BNC connector on the rear panel allows temporal modulation of the light output at up to 100 Hz.

MIRA delivers illumination tailored to the requirements of routine, clinical microscopy applications without the burden of maintenance, alignment or replacement part expenditures. MIRA's efficient passive cooling design requires no fan, providing silent and vibrationless operation. Like all Lumencor light engines, MIRA is mercury-free.

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

FOUR INDEPENDENT SOURCES IN ONE COMPACT LIGHT ENGINE



Features and Operating Characteristics

Features	Details
Sources	4 solid-state sources: Violet (V), Cyan (C), Green (G), and Red (R). White light output via simultaneous V,G,C,R output
Output Spectrum	Shown in graphic representation above
Output Power	~ 600 mW total power
Light Delivery	Direct mount to epifluorescence illumination port of major brand microscopes
Control Interface	Side-panel knobs for manual on/off, output color and intensity selection. Same control functions also accessible via optional touchscreen tablet
Control Ports	(1) Rear panel USB port for tablet connection. (2) Electronic on/off gate (>3.3 V/<1.5 V DC) via rear panel BNC
Speed	On/off gating (single colors or simultaneous white output) up to 100 Hz
Optional Accessories	Touchscreen control tablet (83-10003). USB A to USB A cable for tablet connection (29-10057)
Power Requirements	40 W, 9 V, 4.45 A DC power supply included
Lifetime	20,000 hours with >70% original output intensity. 12 month warranty.
Dimensions (W x L x H)	9 cm x 15 cm x 10 cm
Weight	< 2.0 kg
Package Contents	MIRA light engine®, power supply and region-specific power cord



GET IN TOUCH

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