

Image by John Johnson

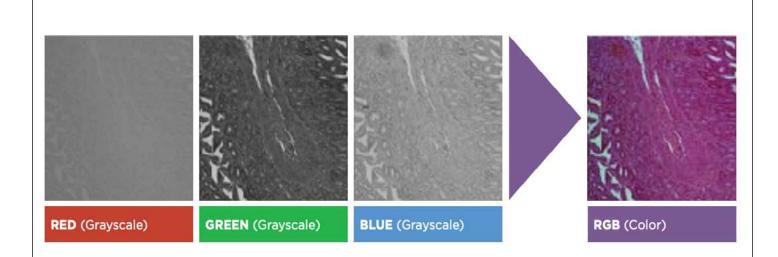
Discrete, camera synchronized RGB illumination High-Speed Color Transmitted Light Microscopy with Monochrome Cameras

The LIDA Light Engine is Lumencor's newest offering in a portfolio of high-performance, solid state illuminators for life sciences applications. It is designed from the ground up to work hand-inhand with the latest monochrome cameras to generate RGB color transmitted light images with unprecedented sensitivity, spatial resolution, speed and color fidelity.

Conventionally, transmitted light color images have been acquired using white light sources and color cameras. However single-exposure acquisition of color information comes at the expense of lower speed, less spatial resolution, reduced dynamic range and increased noise in color cameras compared to gray-scale cameras. Color cameras also tend to be relatively expensive. Alternatively, monochrome cameras have been employed in inherently slow sequential exposure techniques. Now that monochrome cameras can be paired with a fast color-switching LIDA Light Engine, sequential RGB acquisition assumes the status of a preferred option rather than merely an alternative to color camera+white light source techniques. The LIDA Light Engine integrates three solid state sources, including Lumencor's exclusive green luminescent light pipe, with the sophisticated control electronics required for high speed synchronization of light output with camera exposure time. Transmitted light images are captured in one electronically controlled highspeed sequence. Variances associated with moving parts are eliminated, resulting in perfect alignment of pixelregistered images across the wide fields of view a orded by modern sCMOS cameras. Independent control of the intensity of the three component light sources allows balanced color rendition without resorting to extensive post-processing of images.

Lumencor is excited to enable this synergistic combination of new illumination and camera technologies for histologists, clinical pathologists and anyone seeking improvements in the speed, sensitivity and precision of color transmitted light microscopy.

For more information on the LIDA Light Engine, please contact us at info@lumencor.com. To receive a purchase quotation for a LIDA Light Engine, please submit our online quotation request form.



Features and Operating Characteristics:

| Features | Details |
|---------------------|--|
| Sources | 3 solid-state sources: Red (610–650 nm), Green (510–600 nm), Blue (420–480 nm) |
| Light Delivery | Direct mount to transmitted light port of major brand microscopes |
| Operational Modes | RGB sequential (camera triggered); white light for ocular viewing |
| Speed | Maximum 1 kHz RGB channel switching or all channels (white) on/off |
| Control Ports | (1) Rear panel USB port. (2) Rear panel DB15 TTL gating port |
| Functional Controls | USB: Direct control of channel on/o and output intensity TTL: Single-line sequential R>G>B switching or 3-line independent gating of R, G and B sources |
| Control Interfaces | ELECTRONIC: Color channel selection and output intensity adjustment from USB connected computer running Lumencor GUI or third party software. MANUAL: Side-panel knobs for white light output on/o and intensity level |
| Power Requirements | 40 W, 9 V, 4.45 A DC power supply included |
| Warranty | 36 month warranty to end user |
| Dimensions (WxLxH) | 9 cm x 15 cm x 11 cm |
| Weight | < 2.0 kg |
| Package Contents | LIDA Light Engine, USB control cable, power supply and region-specifi c power cord |

Optional Accessories: DB15-to-4X BNC TTL breakout cable

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