

## **Excelitas Technologies Introduces X-Cite® XYLIS for Fluorescence Microscopy**

### ***New Powerful LED Light Source Excites Broadest Range of Fluorophores***

**WALTHAM, Mass., April 18, 2018** – [Excelitas Technologies® Corp.](#), a global technology leader focused on delivering innovative, customized photonic solutions, today introduced its [X-Cite® XYLIS](#) light source for fluorescence microscopy. The new X-Cite XYLIS includes Excelitas' patented LaserLED Hybrid Drive® and offers a rich, broad spectrum output from 360-750nm for exciting an extended range of fluorophores, with the advantages and simplicity of using LEDs.

X-Cite XYLIS provides enhanced LED coverage from one end of the light spectrum to the other, closely matching the output of a mercury arc lamp while eliminating any need for bulb replacement. With a 365nm spectral peak, X-Cite XYLIS fits perfectly with the narrow DAPI filter sets that are standard in research microscopes. At the opposite end of the spectrum, X-Cite XYLIS provides 735nm excitation for Cy7, a wavelength that is not available in any other broadband LED light source at comparable prices.

The X-Cite XYLIS is the latest addition to Excelitas' popular X-Cite product line. Incorporating Excelitas' patented LaserLED Hybrid Drive technology, X-Cite XYLIS enables researchers to overcome the LED green gap – the 540nm to 590nm region of the spectrum where LED-only systems are significantly challenged. This novel technology developed by Excelitas utilizes high-efficiency lasers to excite a phosphor layer, generating a broad peak from 500nm to 600nm which can then be filtered to a more specific excitation band depending on the fluorophore of interest. The award-winning LaserLED Hybrid Drive is also more efficient and provides higher output than other technologies, such as luminescent rod technology, and allows the X-Cite XYLIS to be a quieter system than its predecessor, X-Cite Fire.

X-Cite XYLIS power levels for TRITC, Cy5 and Cy7 excitation are equivalent to the power of arc lamps. It is suitable for a wide range of uses from routine imaging to demanding high-speed applications. Designed for use with liquid light guides, X-Cite XYLIS is compatible with modern light-guide-only microscope designs and can also be combined with X-Cite microscope adaptors to replace traditional lamp houses. X-Cite XYLIS makes it possible to switch from mercury lamps to environmentally-friendly LEDs without compromising on price or performance.

“Utilizing our patented LaserLED Hybrid Drive technology, the X-Cite XYLIS provides the rich, broad spectrum and brightness of an arc lamp system,” said Mike Kay, Director of Product Management, Biomedical Lighting at Excelitas. “We found the LaserLED Hybrid Drive to be more efficient and quieter than other technology options, making it the clear choice for our new XYLIS system.”

X-Cite XYLIS offers the same intuitive, easy manual operation as other X-Cite products, with speedDIAL or foot pedal, USB and TTL control options. It is compatible with the standard X-Cite command set for seamless integration with existing X-Cite 120LED software drivers.

The new X-Cite XYLIS will be displayed for the first time at Experimental Biology 2018 Excelitas Booth # 1008, April 22 – 24, 2018 in San Diego, CA. For more information about Excelitas, visit [www.excelitas.com](http://www.excelitas.com).

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### **About Excelitas Technologies**

Excelitas Technologies Corp. is a global technology leader focused on delivering innovative, high-performance, market-driven photonic solutions to meet the lighting, detection and optical technology needs of global customers. From biomedical technology to research laboratory, safety and security, consumer products, semiconductor, energy and environment, industrial sensing & imaging, defense and aerospace, Excelitas Technologies is committed to enabling our customers' success in their end-markets. Excelitas Technologies acquired Qioptiq and Lumen Dynamics in 2013 and now has approximately 6000 employees in North America, Europe and Asia, serving customers across the world. Connect with Excelitas on [Facebook](#), [LinkedIn](#) and [Twitter](#).

Excelitas® is a registered trademark and X-Cite® and LaserLED Hybrid Drive® are trademarks of Excelitas Technologies Corp.

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