



Excelitas Technologies' X-Cite 120LEDBoost Delivers 40% More Powerful LED Illumination for Fluorescence Microscopy

Latest Addition to the X-Cite Family of Fluorescence LED Illumination Solutions Delivers Enhanced Optical Performance



WALTHAM, Mass., February 11, 2016 – [Excelitas Technologies® Corp.](#), a global technology leader focused on delivering innovative, customized photonic solutions, introduces [X-Cite® 120LEDBoost](#) to replace their popular X-Cite 120LED broad-spectrum solution. With the same key features and mercury-free benefits as its predecessor, X-Cite 120LEDBoost delivers 40% more power for improved fluorophore excitation. Its innovative design includes intuitive controls with long life LEDs, to deliver peace of mind and simplicity to researchers across the globe.

A versatile illumination choice for fluorescence microscopy, X-Cite 120LEDBoost provides high-power, broad-spectrum fluorescence excitation from 370-700nm, catering to a wide range of popular fluorophores and fluorescent proteins. The 40% power increase in the 500-600nm region of the spectrum provides stronger excitation for fluorescent proteins such as mCherry and other popular red fluorophores, which are generally challenging for LED illuminators. The product's advanced direct coupling optics ensure bright, uniform illumination when using microscopes from all major manufacturers.

“We are excited to build upon the success of our industry-leading fluorescence illumination systems with the X-Cite 120LEDBoost,” said Oliver Scheuss, Vice President of Solid State Lighting and UV/Microscopy at Excelitas Technologies. “Our innovative Research & Development team is constantly exploring new ways to optimize the performance of our products, and they have truly raised the bar with the X-Cite 120LEDBoost. A 40% power increase in a key spectral region for researchers is significant.”

Additional features of X-Cite 120LEDBoost include:

Direct Coupling without Vibration: The innovative thermal management design of X-Cite 120LEDBoost allows direct coupling to the microscope for maximum power without adding mechanical vibration. Electronic shuttering provides sub-millisecond operation while avoiding the vibration and failure risk of mechanical shutters.

Electronic Shutter and Silent Thermal Management: Fanless, high-output LED head design and lack of shutter noise make for virtually silent operation, providing an optimal work environment for microscopists, and enabling maximum precision in vibration-sensitive imaging experiments.

Multiple Control Options for Maximum Flexibility: X-Cite 120LEDBoost offers complete automation for multi-day time-lapse experiments and simple ergonomic manual control via speedDIAL. Its LED instant ON/OFF capability also limits photobleaching and phototoxicity with ultra-fast PC control or TTL triggering. X-Cite 120LEDBoost can be driven by commercial imaging software, and an SDK is available for developing customized control solutions.



Ergonomic Fingertip Control: The fluorescence solution's ergonomic speedDIAL can be placed where it is most comfortable for individual users. Additionally, X-Cite 120LEDBoost's speed-sensitive intensity dial doubles as an ON/OFF button for quick, intuitive illumination control.

Excelitas Technologies Corp.'s X-Cite 120LEDBoost will debut at [SPIE Photonics West](#) (booth #1323) in San Francisco, February 13-18, 2016. For more information about Excelitas and its products, please [contact us](#) or visit www.excelitas.com.

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About X-Cite

The X-Cite® family of innovative lamp and LED fluorescence illumination and measurement solutions offers the Life Science and Analytical Instrumentation markets unsurpassed reliability and control capabilities. Recognized as the industry standard in research microscopy, X-Cite also brings solid state LED technologies to instrument manufacturers, combining maximum optical performance with flexible design and best-in-class manufacturing quality and lead time.

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 other technology needs of global customers. From biomedical technology to research laboratory, safety and security, consumer, semiconductor, industrial, energy and environment, as well as defense and aerospace applications, Excelitas Technologies is committed to enabling our customers' success in their end-markets. Excelitas Technologies has approximately 5,500 employees in North America, Europe and Asia, serving customers across the world. Connect with Excelitas on [Facebook](#), [LinkedIn](#) and [Twitter](#).

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