



FOR IMMEDIATE RELEASE:

Excelitas Technologies Introduces Next-Generation X-Cite Vitae vIRX Illumination Platform for Biomedical Applications

New illumination system features enhanced control, precise tuning and exceptional optical stability for streamlined OEM integration



Pittsburgh, Pa., January 23, 2025 – [Excelitas Technologies®](#)

[Corp.](#), the leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor, aerospace and defense end markets, has unveiled the [X-Cite® Vitae vIRX](#) illumination platform. As the latest addition to Excelitas' robust Vitae product family, the next-generation vIRX illuminator is designed to enable streamlined OEM integration, offering enhanced capabilities for high-precision medical illumination and

diagnostic applications such as endoscopy and surgical visualization, as well as high-speed analytical applications including slide scanning and polymerase chain reaction (PCR).

"With the launch of the X-Cite Vitae vIRX, Excelitas continues to redefine performance and adaptability in biomedical illumination," said Pamela Lee, Sr. Product Manager, Excelitas Technologies. "This platform is engineered to meet the evolving needs of OEMs, enabling faster development cycles and delivering exceptional results for medical and diagnostic applications."

The X-Cite Vitae vIRX features a fully customizable, multi-wavelength RGB illumination system with near-infrared (NIR) excitation and advanced closed-loop feedback control. With a flexible architecture that can be easily adapted for varying application needs, the X-Cite Vitae vIRX provides:

- **Precision Tuning and Exceptional Optical Stability:** Accurate correlated color temperature (CCT) and maintenance of color and intensity over lifetime
- **Expanded Control:** Support for up to seven individually controllable channels, with fast switching and response times
- **LaserLED Hybrid Drive® Technology:** Increased optical power output capable of replacing traditional 180W or 300W Xenon sources
- **Optimized Optics:** Maximum light delivery and efficiency, offering universal turret for coupling to standard ferrule interfaces
- **Customizable Design:** Tailoring of optical coupling, wavelength selection, control systems and form factors to meet specific application requirements

The X-Cite Vitae vIRX product portfolio is designed to accelerate time-to-market for OEMs by offering platforms that are easily adaptable to specialized customer needs. This new model



replaces its predecessors, the X-Cite Vitae vIR and vIR+, providing improved performance and broader application support.

The X-Cite Vitae vIRX will be on display in San Francisco, CA at [SPIE Photonics West](#) Booth #641 from January 28 – 30, 2025. For more information about the X-Cite Vitae vIRX or other illumination platforms, visit <https://www.excelitas.com/product/x-cite-vitae-virx>.

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About Excelitas Technologies Corp.

Excelitas is the leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor, aerospace and defense end markets. Headquartered in Pittsburgh, PA, USA, Excelitas is an essential partner in the design, development and manufacture of photonic technologies, offering leading-edge innovation in sensing, detection, imaging, optics and specialty illumination for customers worldwide.

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