



TETREM X-Cite LED Light Source for Fluorescence Microscopy Owner's Manual

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TETREM X-Cite LED Light Source for Fluorescence Microscopy

Four-channel wavelength switchable light guide-coupled unit simplifies control of



multiple fluorescence channels

Pittsburgh, Pa., April 16,

2025 – [Excelitas®](#) , 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 and avionics sectors, announces the launch of the [X-Cite TETREM™](#)—a four-channel, switchable light guide-coupled LED light source designed to optimize fluorescence microscopy workflows.

The X-Cite TETREM uses Excelitas' new smartDIAL™ control interface, enabling researchers to intuitively and easily control multiple channels manually via an easy-to-

read display featuring advanced controls. Offering high power for routine imaging applications, TETREM is an accessible, budget-friendly solution for fluorescence microscopy laboratories.

Key features of the X-Cite TETREM include:

- **Fluorophore Excitation:** Available in two models, XT640S (365nm DAPI excitation) and XT640L (385nm DAPI excitation), TETREM supports DAPI, FITC, TRITC/mCherry and Cy5 fluorophore excitation
- **Independent Channel Control:** Four individually or simultaneously controllable channels for on/off and intensity adjustments
- **Enhanced Filtering:** Features a filter holder for fine-tuning excitation between 500 nm – 600 nm
- **Flexible Connectivity:** Control via smartDIAL, USB or TTL inputs
- **Microscope Compatibility:** Liquid light guide coupling ensures seamless integration with a wide range of microscope systems
- **Compact Design:** Ideal for laboratories where space is limited or direct coupling is impractical

“We are thrilled to introduce the X-Cite TETREM, which brings intuitive channel control and high-performance fluorescence illumination to labs seeking a cost-effective solution,” said Michelle Gal, Senior Product Manager, Excelitas. “This latest X-Cite® solution upholds our commitment to providing reliable, high-quality LED fluorescence illumination systems for microscopy applications. In addition to delivering precision, versatility and value, X-Cite TETREM simplifies individual channel control, excites the most common fluorophores and offers an accessible alternative to high-end illumination systems for a variety of routine fluorescence imaging applications.”

From advanced live-cell imaging to routine laboratory use, Excelitas’ X-Cite products offer unmatched versatility and value for broad-spectrum, high-power fluorescence excitation.

Products range from advanced, high-end LED illuminators with intelligent triggering and pulsing capabilities for live-cell imaging to budget-friendly options such as the new X-Cite TETREM.

X-Cite TETREM will be on display at Excelitas booth #3543 during the [American Association for Cancer Research Annual Meeting](#), April 25-30, 2025 in Chicago, IL. For

more information about the X-Cite TETREM, please visit <https://www.excelitas.com/product/x-cite-tetrem-channel-ledillumination-system>.

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About Excelitas

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 and avionics 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.

Connect with Excelitas on [LinkedIn](#), [Facebook](#), [X](#) and Instagram, or visit our website at www.excelitas.com for more information.

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[pdf] Owner's Manual

TETREM, TETREM X-Cite LED Light Source for Fluorescence

Microscopy, X-Cite LED Light Source for Fluorescence Microscopy, LED

Light Source for Fluorescence Microscopy, Light Source for Fluorescence

Microscopy, Fluorescence Microscopy

References

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