



MEDIA ADVISORY

November 3, 2025

Excelitas to Showcase PCO sCMOS Camera and X-Cite Fluorescence Illumination Solutions at Neuroscience 2025

WHO: [Excelitas®](#), a 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, will highlight its wide range of PCO® cameras and X-Cite® fluorescence illumination solutions for scientific research applications at [Neuroscience 2025](#).

WHAT: Featured solutions at Excelitas Booth #2121 include:

- [pco.edge 9.4 bi CLHS sCMOS Camera](#): Combining exceptional image quality, photon counting sensitivity and a large image circle, the pco.edge 9.4 bi CLHS camera offers ultra-low readout noise, high resolution and excellent modulation transfer function (MTF). It is ideal for challenging and demanding microscopy, life science and physical science applications such as aperture correlation fluorescence microscopy (LSFM), structured illumination microscopy (SIM), confocal spinning disk microscopy and dual-image acquisition for spectral analysis, HDR imaging and polarization studies. The camera features an outstanding low readout noise of 0.3 e- and a large diagonal of 23 mm by using a high-resolution 9.4 MPixel image sensor with a square pixel size of 4.6 µm.
- [pco.edge 10 bi CLHS sCMOS Camera](#): Designed to deliver exceptional imaging performance for microscopy, life science and physical science applications, the next-level pco.edge 10 bi CLHS camera provides a quantum efficiency of up to 85% with a broad spectrum extending to NIR. Its back-illuminated image sensor incorporates microlenses and a deep-trench isolation for crosstalk suppression, resulting in an excellent MTF. The camera features an attractive low readout noise of 0.7 e- and a large diagonal of 23 mm by using a high-resolution 10.5 MPixel image sensor with a square pixel size of 4.6 µm.
- [X-Cite TETREM™ 4-Channel LED Illumination System](#): Engineered for simplicity, power and flexibility, TETREM delivers reliable excitation for the most widely used fluorophores in microscopy. Its compact, cost-effective design is ideal for researchers performing live cell imaging or upgrading from a lamp-based system for routine applications. TETREM is equipped with X-Cite smartDIAL™ controller, offering a modern, user-friendly and sleek interface for precise and intuitive manual control.
- [X-Cite XYLIS™ II Broad Spectrum LED Illumination System](#): XYLIS II offers several improvements from its predecessor, including significantly quieter operation and increased optical output, with the broadest spectrum available in a white light LED for fluorescence microscopy applications. Rivaling traditional arc lamps for brightness, XYLIS II is ideal for compound and stereomicroscopes. It incorporates Excelitas' patented, award-winning LaserLED Hybrid Drive® technology to overcome the LED green gap from the 500 nm to 600 nm region of the spectrum, where LED-only systems are significantly challenged.

WHEN: November 16 – 19, 2025

WHERE: Excelitas Booth #2121
San Diego Convention Center, San Diego, CA, USA

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About Excelitas

Excelitas is a 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 advanced technologies, offering leading-edge innovation in sensing, detection, imaging, optics and specialty illumination for customers worldwide. Excelitas is at the forefront of addressing many of the relevant megatrends impacting the world today, including precision medicine, industrial automation, artificial intelligence and connected devices (IoT).

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Contacts:

Dan Brailer
Vice President Investor Relations and Communications
dan.brailer@excelitas.com
+1 (412) 977- 2605

Cheryl Reynhout or Jill Anderson
On Behalf of Excelitas
SVM Public Relations
excelitas@svmmarcom.com
+1 (401) 490-9700