

Excelitas Technologies to Highlight X-Cite Fluorescence Illumination and PCO Camera Solutions at the SfN Neuroscience 2024

- WHO:** [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, will showcase its broad array of X-Cite® fluorescence illumination and PCO® camera solutions for research applications at the SfN Neuroscience 2024.
- WHAT:** At booth #836, Excelitas experts will highlight products that increase sample life, provide a brighter signal-to-noise ratio and improve imaging data, including:
- [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 both 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.
 - [X-Cite NOVEN™ Powerful, 9-Channel LED Illumination System](#): The next-generation X-Cite NOVEN LED light source delivers the brightest and most powerful LED illuminator ever. The nine-channel, fast-switching system includes spectral coverage from Fura-2 all the way to IR800 and incorporates Excelitas' patented LaserLED Hybrid Drive to effortlessly fill the green gap in the challenging 500 nm to 600 nm range. NOVEN also features high excitation power for fluorescence applications across the UV-visible-NIR spectrum.
 - [pco.edge 10 bi CLHS sCMOS Camera](#): With a back-illuminated image sensor, the next-level pco.edge 10 bi CLHS camera provides a quantum efficiency of up to 85% with a broad spectrum extending to NIR. The sensor incorporates microlenses and a deep-trench isolation for crosstalk suppression resulting in an excellent MTF. Additionally, the camera features an attractive low readout noise of 0.8 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.
 - [pco.flim X Camera System](#): A new version of the first frequency domain (FD) Fluorescence Lifetime Imaging (FLIM) camera, pco.flim X uses a fast modulatable CMOS sensor with two readout-taps per pixel. It enables improved cooling, achieving an image sensor temperature of -5°C with forced air cooling and -20°C with water cooling. These attributes reduce the readout noise level below 15 [e-] and extend the usable exposure times to 4s instead of 2s. pco.flim X remains the frequency domain FLIM camera system with the largest resolution of 1008 pixels x 1008 pixels and the highest maximum frame rate of 45 double images/s.
 - [pco.edge 26 CLHS sCMOS Camera](#): The pco.edge 26 CLHS offers high-speed, high resolution streaming by combining the image quality of a charge domain



sCMOS 26 MPixel image sensor with unrivaled data transfer options. It features four CLHS Fiber Optic Link (FOL) channels – all aligned in one compact plug – to allow a frame rate of 150 frames per second @ 10bit dynamic range. The pco.edge 26 CLHS camera also operates at a minimum read noise and dark current without compromising image quality, making it a powerful solution for numerous applications in life science and physical science. In addition, there is a double shutter version with an interframing time of 350 ns available.

WHEN: October 6 - 9, 2024

WHERE: McCormick Place Convention Center, Chicago, IL, USA
Booth # 836

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About Excelitas Technologies

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.

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

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Contacts:

Scott Orr
Senior Director of Global Marketing – Commercial
scott.orr@excelitas.com
+1 (781) 996-5925

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