Excelitas Technologies to Highlight X-Cite Fluorescence Illumination and PCO Camera Solutions at SFN Neuroscience 2022

WHO: [Excelitas Technologies® Corp.](#), a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions, will display its renowned X-Cite® fluorescence illumination and PCO® camera solutions at [SFN Neuroscience 2022](#).

WHAT: Live demo featuring the X-Cite NOVEM™ combined with the pco.pixelfly™ 1.3 SWIR Camera shows an ideal setup for researchers using ICG or IR800 in their fluorescence imaging, to see deeper into tissue with less background and increased signal.

In addition, featured products on display at Excelitas booth #1420 include:

- [X-Cite NOVEM™ 9-Channel LED Illumination System](#): The award-winning X-Cite NOVEM delivers the brightest and most powerful LED illuminator ever. This nine-wavelength, fast-switching system includes spectral coverage from Fura-2 all the way to IR800. Incorporating Excelitas' patented LaserLED Hybrid Drive® to effortlessly fill the green gap in the challenging 500 nm – 600 nm range, X-Cite NOVEM features high excitation power for fluorescence applications across the UV-visible-NIR spectrum.

- [X-Cite XYLIS™ Broad Spectrum LED Illumination System](#): X-Cite XYLIS for fluorescence microscopy features Excelitas' patented LaserLED Hybrid Drive and offers a rich, broad-spectrum output from 360-750 nm for exciting an extended range of fluorophores, with the advantages and simplicity of using LEDs. XYLIS' enhanced LED coverage from one end of the light spectrum to the other closely matches the output of a mercury arc lamp while eliminating any need for bulb replacement. Its 365 nm spectral peak fits perfectly with the narrow DAPI filter sets that are standard in research microscopes.

- [NEW pco.pixelfly™ 1.3 SWIR Camera](#): The high-performance pco.pixelfly 1.3 SWIR Machine Vision Camera features a special InGaAs image sensor (SONY IMX990) that is sensitive in the shortwave infrared, near infrared and visible range of the electromagnetic spectrum. As a result, pco.pixelfly shows a favorably high sensitivity in the whole spectral range with more than 90% in the shortwave infrared part. The small pixels enable the use of small magnification optics in microscopy and a low dark current for even longer exposure times.

- [PCO edge 4.2 bi XU](#): The pco.edge 4.2 bi XU is based on a back-illuminated sCMOS sensor with a very specific coating that allows applications in the visible light down to extreme UV (EUV) and soft x-ray radiation. The camera is adapted for ultra-high vacuum operations and soft X-ray in the energy range from 30 eV to 1000 eV. Its image sensor comprises 2048 x 2048 pixels with a

pixel size of 6.5 μm x 6.5 μm and allows full frame acquisitions at 40 Hz with a dynamic range of 88 dB at a noise level of 1.9 e-.The camera is compact and offers various software integration options.

WHEN: November 12 – November 16, 2022

WHERE: San Diego Convention Center, San Diego, CA
                    Excelitas Booth #1420

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About Excelitas Technologies

Excelitas Technologies® Corp. is a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions to meet the illumination, optical, optronic, sensing, detection and imaging needs of our OEM and end-user customers. Serving a vast array of applications across biomedical, scientific, semiconductor, industrial manufacturing, safety, security, consumer products, defense and aerospace sectors, Excelitas stands committed to enabling our customers' success in their many various end-markets. Our team consists of more than 7,500 professionals working across North America, Europe and Asia, to serve customers worldwide.

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