



FOR IMMEDIATE RELEASE:

Excelitas Introduces pco.edge 1.3 SWIR CLHS Scientific Camera for Low-Noise Imaging in SWIR Applications

New InGaAs camera combines ultra-low readout noise, high quantum efficiency and deep cooling for advanced scientific imaging



Pittsburgh, Pa., September 15, 2026 – [Excelitas®](#), the leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the MedTech, Life Sciences, Advanced Industrial, next-generation Semiconductor and Avionics end markets, introduces its [pco.edge 1.3 SWIR CLHS](#), the first scientific SWIR camera designed to deliver exceptional imaging performance across visible and short-wave infrared (SWIR) wavelengths. Developed for demanding scientific and

industrial imaging applications, the camera combines ultra-low readout noise with high quantum efficiency, deep sensor cooling and high-speed performance.

The new camera features a 1280 x 1024 InGaAs image sensor with 10 μm x 10 μm pixels, frame rates up to 148 fps and spectral sensitivity ranging from 300 nm to 1700 nm. With typical readout noise of 25 electrons and sensor cooling down to -30°C, the camera enables highly sensitive imaging and low-noise measurements, even during longer exposure times.

“The pco.edge 1.3 SWIR CLHS expands our scientific imaging portfolio with a powerful new solution optimized for advanced NIR and SWIR imaging applications,” said Dr. Gerhard Holst, Senior Imaging Product & Application Scientist at Excelitas. “By combining low readout noise, high quantum efficiency and broad spectral sensitivity in a compact scientific camera platform, researchers and system integrators can achieve high-quality imaging performance across a wide range of challenging applications.”

The pco.edge 1.3 SWIR CLHS is designed for applications including intravital microscopy, in-vivo microscopy, fluorescence microscopy, light-sheet fluorescence microscopy (LSFM/SPIM), structured illumination microscopy (SIM), hyperspectral imaging, semiconductor inspection, packaging inspection and digital surgery microscopy systems.

Key features of the camera include:

- Ultra-low readout noise of 25 electrons
- Broad spectral sensitivity from 300 nm to 1700 nm
- Quantum efficiency up to 73% at 1250 nm
- Sensor cooling down to -30°C for stable low-noise imaging
- Resolution of 1280 x 1024 pixels with 10 μm x 10 μm pixel size
- Frame rates up to 148 fps
- High dynamic range and low-noise operational modes

The camera's combination of low noise performance and SWIR sensitivity provides researchers and OEM system developers with a strong price-performance ratio for scientific imaging applications requiring high sensitivity and stability. The pco.edge 1.3 SWIR CLHS will be on display at Vision 2026 in Stuttgart, Germany, October 6-8, 2026, Booth #E51, Hall 10. For more information about the camera, please visit <https://www.excelitas.com/product/pcoedge-13-swir-clhs-camera>.

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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 MedTech, 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