

FOR IMMEDIATE RELEASE:

Excelitas Debuts pco.flim X Camera System for Life Science and Metrology Applications

Enhanced camera system features highest resolution and fastest frame rate for fluorescence lifetime imaging with an image sensor



WALTHAM, Mass., May 23, 2024 – [Excelitas Technologies Corp.](#), a leading industrial technology manufacturer focused on delivering innovative, market-driven photonic solutions, today introduced the [pco.flim X Camera System](#). A successor to the pco.flim, the easy-to-use pco.flim X frequency domain (FD) fluorescence lifetime imaging (FLIM) camera system offers simplified setup with the highest resolution and fastest frame rate for the highest-quality fluorescence lifetime images in life science and metrology applications.

With its 1008 x 1008 pixel resolution, the pco.flim X reads out 45 double images/s at a maximum and can be used for a modulation frequency range of 5 kHz - 40 MHz. The enhanced FLIM camera system also includes improved cooling image sensor, which achieves -5°C with forced air cooling and -20°C image sensor temperature with water cooling. All of this reduces the readout noise level below 15 [e-] and extends the usable exposure times to 4s compared to the previous 2s achievable with the original pco.flim.

The pco.flim X can measure fluorescence lifetimes from 1 ns - 100 μ s, making it ideal for advanced microscopy methods and techniques including:

- Lightsheet fluorescence microscopy
- Whole slide scanning
- Confocal spinning-disk microscopy
- Solar cell manufacturing (perovskite)
- Pathology
- FRET bio sensors
- Plastic detection in environment

“Excelitas is excited to expand our world-renowned PCO brand of high-performance camera systems with the addition of the pco.flim X,” said Dr. Gerhard Holst, Senior Imaging Product and Application Scientist at Excelitas. “In addition to providing the largest resolution and the highest maximum frame rate on the market for image sensor based FLIM, the pco.flim X Camera System helps scientists, researchers and quality control engineers simplify their fluorescence (luminescence) lifetime imaging applications.”

Excelitas will display the new pco.flim X Camera System from June 4 - 7, 2024 at the [ELMI European Light Microscopy Initiative 2024](#) at Booth #37 in Liverpool, UK. For additional information, visit <https://www.excelitas.com/product/pcoflim-x>.

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About Excelitas Technologies Corp.

Excelitas Technologies® 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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