

Pembroke Instruments Announces Release of ALEX CCD Camera for XUV/X-Ray/VUV Imaging and Spectroscopy

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SAN FRANCISCO, CA, US, April 26, 2021
/EINPresswire.com/ -- Pembroke Instruments announces the release of the new ALEX CCD camera for high imaging and spectroscopy performance in the VUV, XUV, and X-Ray.

Based on a unique platform concept, the ALEX CCD product family offers a portfolio of scientific cameras with vacuum interface for imaging and spectroscopy in the VUV, EUV, soft and hard X-ray range. Incoming photons are directly detected by the CCD sensor.



ALEX CCD Camera

All ALEX CCD cameras combine scientific CCD sensors with ultra-low noise electronics for optimal detection of weak signals. Select among different spectral sensitivities and flange types to find the best solution for your imaging or spectroscopic application. The full frame CCD sensors are cooled by multi-stage Peltier elements. The cameras provide a rich set of functionalities including flexible binning operation, various trigger and synchronization modes, software switchable gain as well as temperature monitoring of the sensor and the Peltier hot side.

Key features and applications include:

Ultra deep TE cooling up to -100 °C

Many choices for spectroscopy and imaging pixel formats up to 4K X 4K

High QE up to 98%

Lowest dark current for better detection limit very sensitive sensors for low light applications

GigE & USB 3.0 data interface • User selectable gain

Local or remote network operation – your choice! balance your detector for best SNR and dynamic range

Fast readout speeds up to 5 MHz; Flexible software options

Fast frame rates paired with low-noise electronics camera software and SDKs available
X-Ray Tomography
Fourier transform holography
X-Ray Fluoroscopy
Coherent Diffraction Imaging
Ptychographic Spectro-microscopy
Grazing-Incidence Small-Angle X-Ray Scattering

Pembroke Instruments, LLC is a leading source for state-of-the art imaging and spectroscopy products for industrial, life science, and military applications. For a quote on this product please email Dr. Leslie M. Tack at sales@pembrokeinstruments.com

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