

A background image showing a grid of rectangular cells, likely a microarray or a detector array, with a blue and purple color scheme. The cells are arranged in a regular pattern and contain small, dark, circular features.

Next generation X-ray detectors

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DECTRIS is the first company worldwide to sell the CMOS hybrid-pixel X-ray detector systems developed at the Paul Scherrer Institut (PSI). These novel digital X-ray detectors will revolutionize X-ray imaging in industry, science and medicine. DECTRIS develops, produces and calibrates these unique devices in Switzerland for the worldwide market.



The founders of DECTRIS: Petr Salficky, Marketing and Sales; Dr. Christian Broennimann, CEO; Markus Naef, Design and Production; Dr. Eric F. Eikenberry, Software Development

With conventional X-ray cameras there is a trade-off between image quality and speed because high-resolution, high-contrast systems have readout times of the order of seconds. In contrast, DECTRIS detectors deliver finest possible data quality at readout times of only a few milliseconds.

This is due to the CMOS hybrid-pixel technology, which features a very high dynamic range, a short readout time and an excellent signal-to-noise ratio. Such detectors improve measurement quality and throughput significantly in many areas such as basic research at synchrotron light sources, industrial and laboratory diffraction systems and medical applications.

DECTRIS provides solutions for challenging measurements and offers a variety of detector configurations: the modularity of our detector systems permits us to tailor them specifically to the customer's requirements. Our advanced detector systems and know-how will significantly improve your research.

DECTRIS was founded in October 2006 in Switzerland as a spin-off company of PSI. The founders of the company were the driving force of the development of the CMOS hybrid-pixel technology at PSI. DECTRIS is a laureate of the Swiss Technology Award 2006 and also of the venture leaders contest in 2007. Although an independent company, DECTRIS remains closely linked to PSI to stay at the cutting edge of X-ray detector science.

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