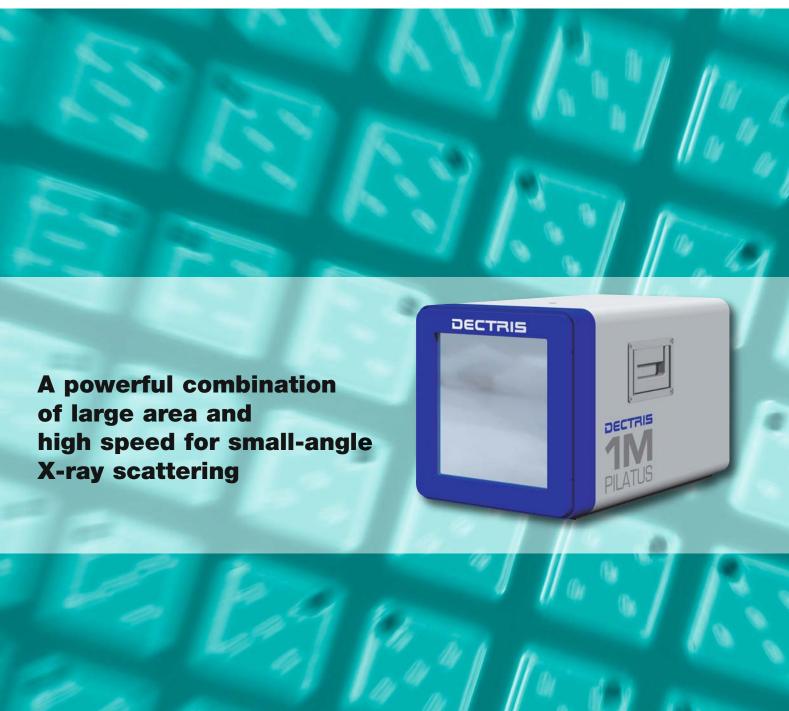


PILATUS 1 M



PILATUS 1

The PILATUS 1M detector is perfectly suited for modern small-angle X-ray scattering (SAXS) applications either in a home lab or at synchrotron light sources, which require fast detectors with ultra low noise and very high dynamic ranges.

It is based on the newly developed CMOS hybrid-pixel technology and operates in "single-photon counting" mode. With its large active area, high dynamic range, high frame rate, the PILATUS 1M is ideally suited for SAXS.

The detector system operates at room temperature, with a cooling unit for temperature stabilization. It comes as a complete system with detector, water cooler, a high-end server to cope with the high data transfer rates and the data acquisition and analysis software package TVX.

The PILATUS 1M is delivered fully calibrated and ready to use.

Applications

- X-ray diffraction (XRD)
- Small-angle scattering (SAXS)
- Macromolecular crystallography (MX)

Key features

- Direct detection of X-rays in single-photon-counting mode
- Radiation-tolerant design
- High dynamic range
- · Short readout time
- High frame rates
- · High counting rates
- No dark current or readout noise
- Adjustable threshold to suppress fluorescence
- Excellent point-spread function

• Electronically gateable • Shutterless operation 3 – 30 keV 50 eV Point-spread function Close-circuit water cooling unit

Technical specifications

320 µm

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