



Xeuss 3.0

The Next Generation

SAXS/WAXS/USAXS beamline for the laboratory

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The SAXS/WAXS/USAXS beamline for the laboratory

Xeuss 3.0 is the latest evolution of the proven Xeuss laboratory beamline taking measurement capabilities, performance and productivity to new levels.

1.

Maximum flexibility with fully motorized configurations

From SWAXS to 2D-WAXS, from Cu to Mo, from USAXS to SAXS: within the press of a button

- In-vacuum detector with long and completely motorized travel (automatic (GI)-SAXS/WAXS change)
- Up to three motorized sources (Cu, Mo, Cr, Ga)
- In-line Bense-Hart module for automated sequential USAXS/SAXS

- > Get the largest community of users with the widest q-range of measurement
- > Save time for your research with fully remote operation (zero manual handling)
- > Maintain options for long term evolution with a modular laboratory beamline

2.

Ultimate measuring performances

Latest Xenocs development provides shorter measuring times, large characteristic dimensions, high dynamic range of measurements

- Large surface of detection with motorized movement all the way from WAXS to SAXS.
- Settings for very high flux for kinetics measurements or increased signal to noise ratio
- Fully integrated Beamstopless operation available with Eiger2 R detectors (windowless hybrid pixel detection)

- > Obtain high quality data in the lab for any type of samples
- > Get accurate absolute intensity measurements and data modelling (particle size distribution)
- > Access to experiments on diluted low contrast scatterers and fast kinetics in the lab

3.

Plenty of space for sample environment

Larger vacuum chamber with easy access and options for sample environment

- All detection configurations are moving around the sample which remains fixed during operation
- High quality measurements of sample both in air and in vacuum
- Easy integration of specific and large sample environments (under SPEC)

- > Perform *in-operando* studies on your sample
- > Keep space for your sample without compromise on measurement configurations



Q-Xoom technology

With Q-Xoom get automatic access to the entire instrument q-range



Space and flexibility

Movable WAXS for simultaneous collection over a specific q range