

Technical Data - SAXSpace

Technical Specifications	
X-ray source	Primux 3000 sealed tube (Cu, Mo)
X-ray optics	Custom-designed multilayer optics (fully evacuated) Advanced scatterless Kratky-based block beam collimation (fully evacuated)
Sample stages/ Autosamplers	TCStages, Humidity Stage, Tensile Stage, GI-SAXS Stage, ASX Autosamplers, VarioStage, Customized stages on request
Special features	TrueFocus: self-alignment with X-ray beam TrueSWAXS: simultaneous SWAXS studies up to $60^\circ 2\theta$ StageMaster: YZ stage with auto-recognition of sample stages
System resolution	q_{\min} : 0.03 nm^{-1}
Sample environment - Temperature range - Atmosphere	- $150 \text{ }^\circ\text{C}$ to $+600 \text{ }^\circ\text{C}$, $\pm 0.1 \text{ }^\circ\text{C}$ Vacuum, air, inert gas, humidity (reactive gases on request)
Sample holders	Quartz capillary for liquids SiN Cell (low parasitics flow-through cell) Sample holder for solids PasteCell for viscous and powder samples RotorCell for sample spinning High-pressure cells μ -Cell for small sample volumes FlowCell/TubeCell for automation
Measurement time	<1 minute to 30 minutes (typical)
Detectors	1D Mythen2 R series and 2D EIGER R series HPC detectors
Accessible q range	0.03 nm^{-1} to 40.7 nm^{-1} $200 \text{ nm} > d > 0.15 \text{ nm}$
Software	SAXSdrive™ measurement and acquisition software SAXSanalysis™ data processing and analysis software Advanced data interpretation software (PCG)