

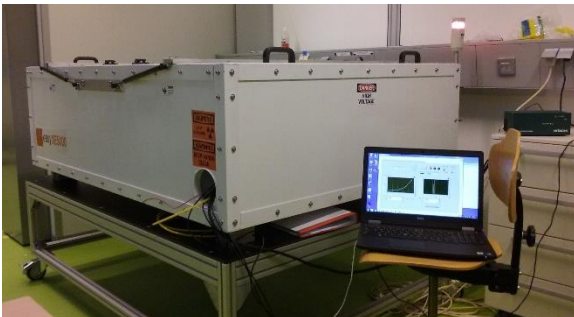
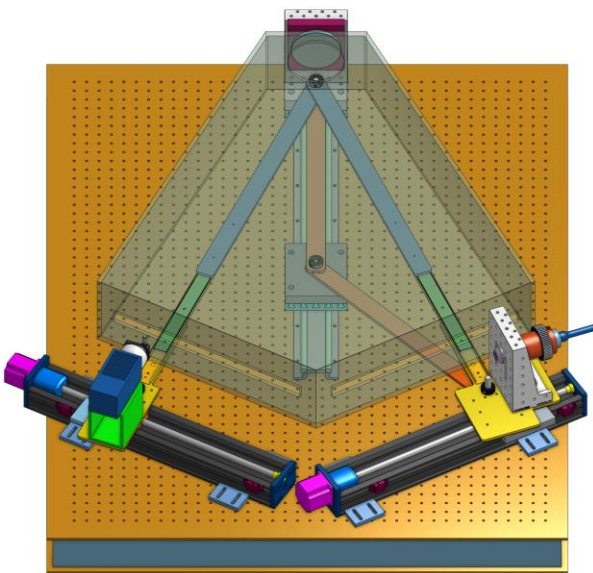


easyXAFS™

easyXES150™

THE easyXES150™

is a simply-operated, but exceptionally powerful x-ray spectrometer. Using a robust “scissors drive” monochromator and a conventional x-ray tube source, this system gives fully research-quality XES (high resolution XRF) performance in measurement times comparable to those at many synchrotron beamlines. The system can be also be quickly user-reconfigured for transmission-mode XAFS, suitable for many research purposes in addition to rapid, ‘analytical’ XANES for industrial product testing or for undergraduate instructional labs.



PRODUCT SPECIFICATIONS

Energy range	Standard operations from 5-12 keV.
Energy resolution	Typically 0.5 – 1.5 eV.at 85 deg
Energy scale stability	Measurement across a series of samples has <25 meV energy scale drift with no monochromator realignment. (Pat. Pend.)
XES mode, flux	Core-hole generation rate of ~10 ¹² /s for concentrated samples.
XAFS mode, flux	>100,000/s - 150,000/s at sample location at 85 deg
Bragg angle range	55 – 85 deg.
X-ray tube	100-W XRF style, air - cooled tube with choice of anode materials. 35 kV maximum accelerating potential.
X-ray optics	Spherically-bent crystal analyzers (SBCAs) with 10-cm wafer diameter and 100-cm radius of curvature.
Optic alignment	“Clock Angle Protocol” (Pat. Pend.) for pre-alignment and rapid, reproducible installation.
Detector	150-300eV resolution with user ability to set trackable ROI.
Sample turret	7-position sample wheel available for programmable XAFS studies.
Software	LabVIEW, includes calibration and regular operations.
Timeline	6-10 months, TBD.