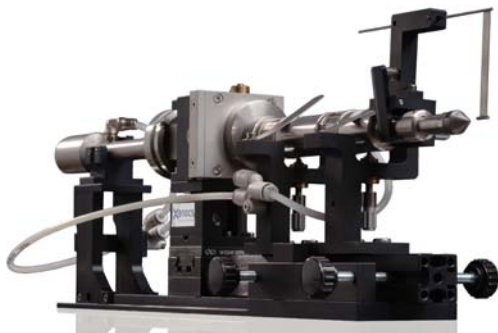


FOX2D MO 25_INF delivers a very intense and monochromatic Mo K α parallel beam. The unique combination of the single reflection design with a precision graded multilayer coating simply brings more flux to your sample.

Whether coupled with a rotating anode generator or a microfocus sealed tube, this FOX2D optic is perfectly suited for SAXS and High resolution applications.



Benefits

- enhanced useful flux due to the **SINGLE REFLECTION ADVANTAGE** compared to standard two-reflection designs
- reduced collection time
- enhanced resolution (q_{min} reduction)
- enhanced lifetime and lower cost of ownership (under vacuum)
- compact mechanical design
- easy to align (10 minutes procedure)
- fits all X-ray generators rotating anode generators, sealed tubes or micro-focus sources)
- no direct beam

Applications

- SAXS (Small Angle X-ray Scattering)
- GI SAXS (Grazing incidence SAXS)
- High resolution

Optional Accessories

- alignment camera
- collimator
- crystal monochromator
- vacuum pump
- stand

Technical Data

Subject to technical changes without notice

Beam features

■ wavelength	0.71Å / 17.4keV (Mo K α)
■ beam size (at the mirror exit)	0.85x1.3 mm ² FWHM
■ flux at 32kV–100 mA	1.16x10 ⁸ phs/s (measured with 200x200 μ m ² source)
■ beam uniformity	$\pm 15\%$ [$(I_{Max} - I_{Min}) / (I_{Max} + I_{Min})$] for a 0.3x0.3 mm ² point source
■ collected angle	3.6 mrad (0.2°), for the 2 dimensions
■ K α spectral purity	typically >97%
■ K β contamination	typically <0.3%

Optical features

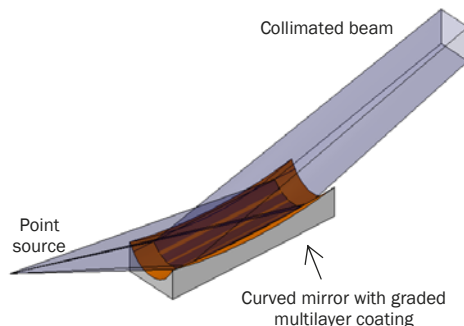
■ divergence	< 0.5 mrad FWHM (for the 2 planes with a 0.1x0.1 mm ² source)
■ distance from source to optic centre	25 cm
■ precision graded multilayer	designed for the best compromise between reflectivity and total flux
■ substrate with optimized shape	parabolic

Mechanical features

■ overall FOX 2D system length	280 mm
■ mirror length	80 mm
■ reversible mechanical housing	6° take off angle $\pm 2 \times$ Bragg angle
■ tilt and incidence micrometric screws for a simple and sensitive adjustment	10° total range (both axes) movement in vertical (tilt) and horizontal (Bragg) directions
■ XYZ adjustment table	14x14x5 mm ³ stroke

Vacuum features

■ primary vacuum housing	longer lifetime and lower cost of ownership
■ beryllium or Kapton® windows	loss per window : <0.1% (Kapton®)
■ dry vacuum pump	working pressure : 3 mbar pumping speed : 0.6 m ³ /h voltage : 220V or 110V



DMC-051103-FOX2D MO 25_INF-TDS-01