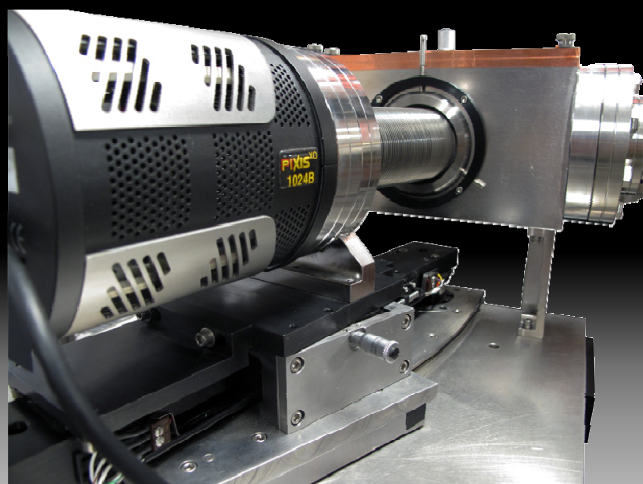


Soft X-ray & EUV Monochromator & Spectrograph



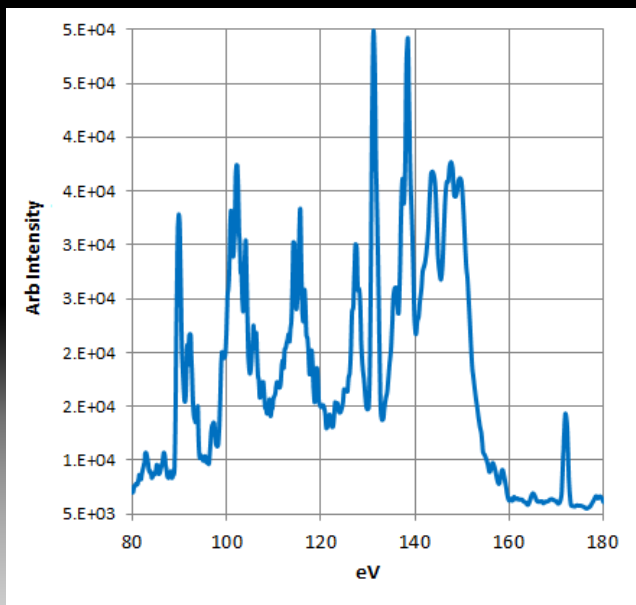
1m grazing incidence spectrometer with PIXIS™ CCD delivers great performance and flexibility in the soft x-ray and extreme UV wavelength range. The spectrometer scans and positions the sensitive PIXIS™ CCD detectors to simplify and speed up data acquisition.

Features	Benefits
CCD compatibility for spectrograph operation**	Fast, easy data acquisition of spectral data in the soft x-ray, extreme and vacuum UV
Grazing Incidence Angles, 84 to 88 degrees	Various angles available to tailor reflectivity and range to the application
High vacuum operation	Internally welded, clean construction with Viton™ seals for 10E-6 torr. UHV (10E-10 torr) available*
Kinematic grating mount	Easy to change kinematic single grating holder
High performance drive system	Precision curved way and drive for guaranteed reproducibility, RS232 and USB included
SXR, EUV and VUV gratings available	A variety of diffraction gratings are available delivering best efficiency for <u>your</u> application
Compact built in vacuum isolation valve (optional)	Vacuum valve simplifies integration with experimental systems
Compact built in filter mount (optional)	Filters (Al metal film, for example) reject long wave VUV and Visible light

* call or email to consult; we can quote the instrument setup that best meets your needs

** 4.5-inch outer diameter Conflat™ mounting flange required

Soft X-ray & EUV Monochromator & Spectrograph



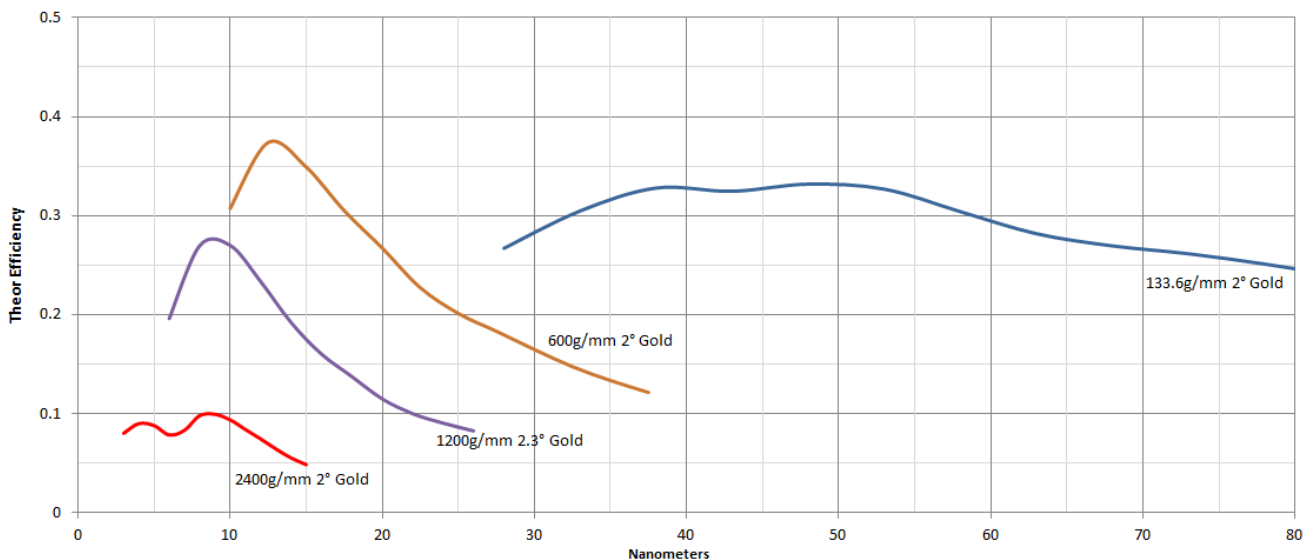
Above: Gas pinch soft x-ray spectrum from 1m grazing-incidence spectrometer with direct-detection CCD

Specifications	
Focal Length	998.8 mm
Grazing Angle (degrees)	84 to 88 available
Aperture Ratio	44
Linear Dispersion*	0.3 nm/mm
Resolution (fwhm)*	0.02 nm
Accuracy*	±0.05 nm
Repeatability*	±0.005 nm
Vacuum Range	10E-6 torr
Optical Design	Grazing Rowland Circle
Focal Plane	40mm max (tangential)
Scan Range*	0 – 35 nm
Grating Size	25 x 20 mm
Grating Mount	Kinematic single
UHV Construction**	Optional 10E-10 torr
Adjustable Slits	0.01 to 0.5 mm
Optical Axis Height	195 mm (+10mm)
Weight	80 kg
Computer Interface	RS232 or USB

*Using 1200g/mm grating with 0.01mm slit

**Please inquire

Grating Selection (others available)



Contact us today to learn more about monochromators and spectrographs for the vacuum ultraviolet, extreme UV and soft x-ray wavelength region. We also have calibration sources, detectors, sample chambers, collimators and telescopes for the VUV.