# Flat field EUV and Soft X-ray Spectrograph

XUV soft x-ray and extreme ultraviolet spectrograph with flat field and diffraction gratings for 10 to 1500 eV now with Princeton Instruments PIXIS CCD detector and Lightfield® software

High vacuum and ultra high vacuum models available

| Features	Benefits
CCD compatibility for spectrograph operation	Fast, easy data acquisition of spectral data in the extreme and vacuum UV
MCP compatibility for gating in the EUV	Open MCP intensifiers provide gating capability (time resolution) in the extreme and vacuum UV
High vacuum operation	Internally welded, clean construction with Viton™ seals for 10E-6 Torr. UHV (10E-10 torr) available.*
Grating Turret	2-position turret accepts easy to change kinematic grating holders
CCD adapter	Adjustable for focus. Can move laterally to collect more wavelengths
SXR, EUV, and VUV gratings available	A variety of diffraction gratings are available delivering best efficiency for your application
Grating fine adjustment	Fine adjust allowed even while under vacuum
Less stray light	Laminar grating profile and adjustable zero baffle

Flat field EUV and Soft X-ray Spectrograph

Ionized Helium Spectrum

**30.4nm
He II**

Longer λ -->
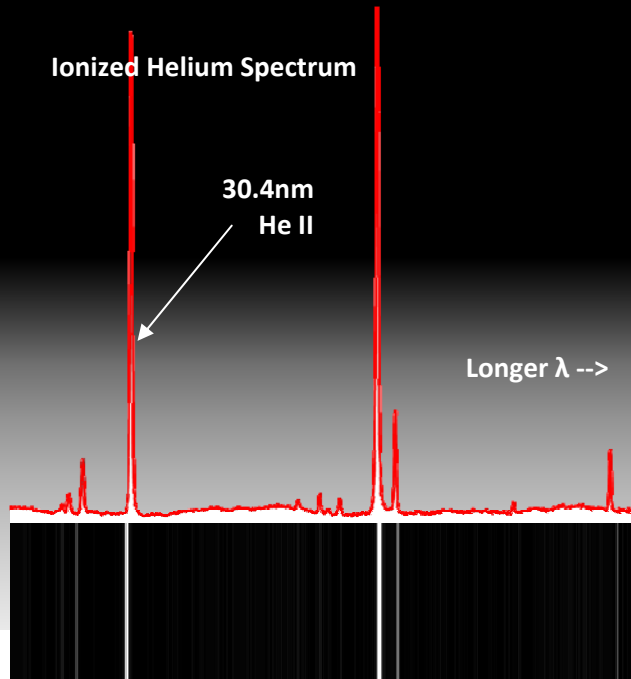
Specifications*	
Acceptance	10 milliradians
Linear Dispersion*	0.6 nm/mm average
Groove shape	Laminar
Optical Design	Flat field aberration corrected
Focal Plane	About 25 mm wide
λ Range, 2400g/mm	5 nm
λ Range, 1200g/mm	15 nm
λ Range, 300 g/mm	60 nm
Grating Size	30 x 50 x 10 millimeters
Grating Mount	Kinematic in turret
Grating Turret	Two-positions included
Vacuum Range	High vacuum 10E-6 Torr
UHV Construction**	Optional 10E-10 Torr, inquire
Adjustable Slits	0.01 to 3mm
Optical Axis Height	185 mm
Computer Interface	USB for CCD

*Using 1200g/mm grating
**Please inquire

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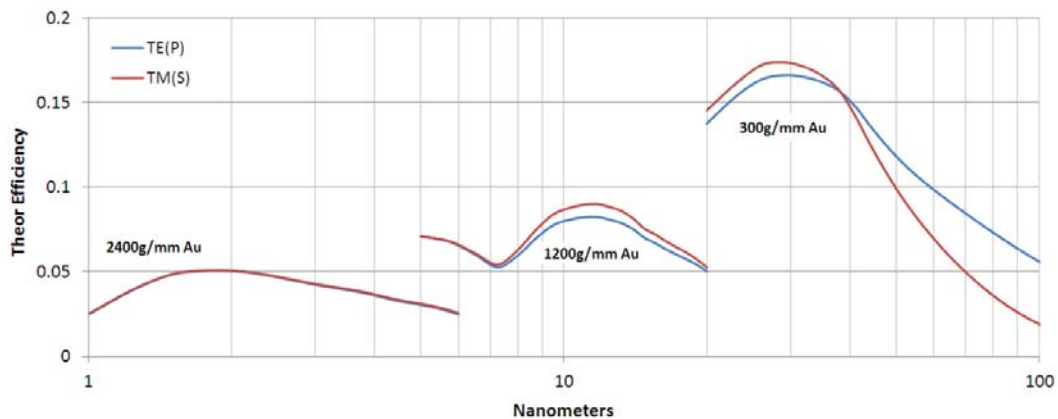
Contact us today to learn more about monochromators and spectrographs for the vacuum ultraviolet, extreme UV and soft x-ray wavelength region. We also have calibration sources, detectors, sample chambers, collimators and telescopes for the VUV.