H+P SPECTROSCOPY SCIENTIFIC INSTRUMENTATION

easyLIGHT

Innovative compact VUV spectrometers

Our easyLIGHT spectrograph provides aberration-corrected wavelength coverage in the vacuum ultraviolet spectral region. Based on a normal-incidence geometry, it offers spectrograph and monochromator functionality. The high-efficiency gratings can be rotated about their apexes by a high-accuracy positioning system, resulting in a wavelength selection accuracy at the exit slit of <0.1 nm. Entrance and exit slit widths can be set in the range of 0.01 to 4 mm by micrometer screws or a motorized actuator (optional).

 Versatility spectrograph and monochromator in one device slits continuously adjustable manually or motorized (optional) compact and cost-effective 	 Efficiency and accuracy high accuracy wavelength selection by closed-loop micro-precision grating actuator grating positioning controllable by software highly efficient aberration-corrected grating double stray light filter 		
 Special solutions non-magnetic instruments UHV configurations etc 	 Customization every spectrometer is customized to exactly match the desired application, e. g.: interfacing to experimental chambers adaption of the source distance integration of customer-supplied detectors user-defined filter mounts 		
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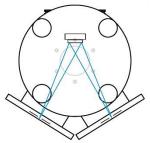
Characteristics

	easyLIGHT	maxLIGHT	maxLIGHT plus
Flat-field grazing-incidence spectrograph	•	•	•
Normal-incidence spectrograph and monochromator	•		
Flexible choice of detectors: x-ray CCD or MCP/fiber	•	•	•
Operating pressure < 10 ⁻⁶ mbar	•	•	•
Customizable according to user requirements	•	•	•
Proprietary slit-less design for high efficiency		•	•
Grating blaze for additional efficiency increase			•
Motorized closed-loop 3D grating positioning			•
Manual 1D grating positioning		•	
Motorized grating rotation	•		
Filter insertion unit			•
Vacuum gate valve			•
Entrance and exit slits continuously variable	•	0	0

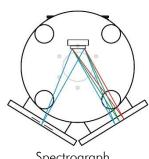
	XUV grating	VUV grating	
Wavelength [nm]	on request	100 - 300	
Operation mode		entrance slit	
Source distance [m]		flexible	
Dispersion [nm/mm]		≈ 4.0	
Resolution [nm]		< 0.1	
Wavelength accuracy [nm]		< 0.1	
Deviation angle [°]	64		
Focal length [mm]	200		
f/#	4.2		

* Other configurations (spectral range, etc) available upon request.

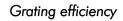
Operation modes

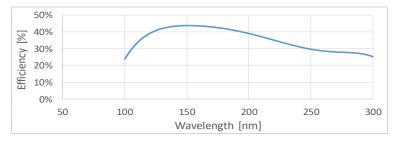


Scanning monochromator



Spectrograph





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