

COMPACT NO-SLIT FLAT-FIELD XUV SPECTROMETER





Features

Direct imaging of the source

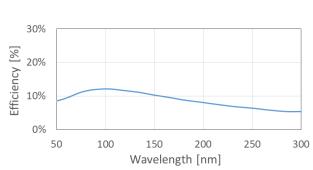
- flat-field spectrometer for the 30 to 250nm spectral range
- no need for an alignmentsensitive narrow entrance slit
- ~20x more light collection than standard spectrometers, resulting in a proportional improvement of the signal-tonoise

Accuracy and efficiency

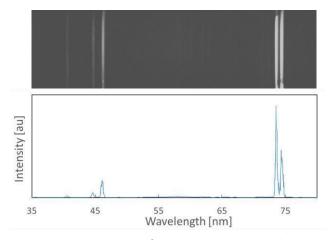
- absolute grating position monitoring for maintaining grating alignment
- grating controllable by software
- highly efficient aberrationcorrected flat-field grating
- double stray-light filter
- most compact spectrometer in its range

Customization

- every spectrometer is customized to exactly match the desired application, e.g.
- interfacing to experimental chambers
- integration of customersupplied detectors
- user-defined filter mounts



Grating efficiency into first order of diffraction. Total system efficiency $\sim\!20x$ higher than conventional spectrometers due to proprietary no-slit technology



Sample spectrum from photoionized plasma of neon gas, produced by nanosecond midinfrared pulses and filtered by a 750um-thick aluminum foil



Specifications

Topology aberration-corrected flat-field spectrometer

Wavelength range 30-250nm

Source distance flexible

Detector CCD or MCP/CMOS

Operating pressure <10⁻⁶mbar (UHV version available)

No-slit technology yes

Entrance slit optional

Grating positioning motorized closed-loop

Spectral filter insertion unit yes

Control interfaces USB or Ethernet

Software Windows UI / Labview, VB, C, C++ SDK

Customizable fully customizable

Options non-magnetic, rotated geometry, etc

Dispersion ~2.0nm/mm

Resolution <0.1nm

Flat-field size 75mm

Deviation angle 94°

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