

easyLIGHT VUV NA

Features

Wide-aperture VUV spectrometer

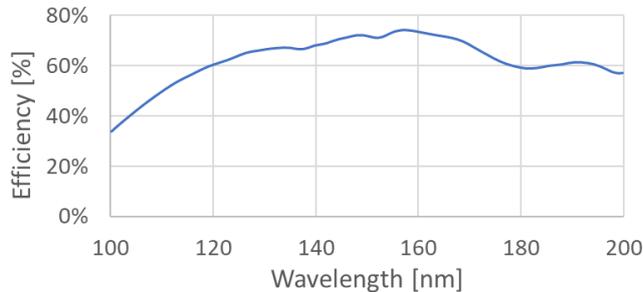
- capturing radiation from a large solid angle, a factor x20 over conventional VUV spectrometers
- extremely high numerical aperture spectrograph with f/1.0
- high spectral resolution preserved with high-NA configuration

Efficiency and accuracy

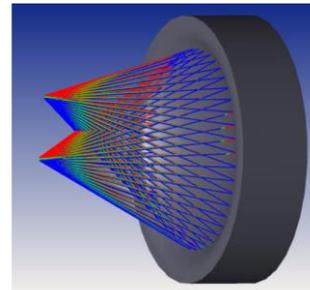
- aberration-corrected grating with extremely high diffraction efficiency of $>75\%$
- high accuracy wavelength setting by closed-loop micro-precision grating actuator
- stray-light suppression by zero-order baffle and anti-reflection chamber coating

Low-noise detection

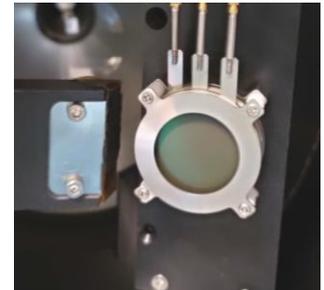
- MCP detection and CMOS camera read-out for low noise
- dark counts MCP $<2/s/cm^2$
- solar-blind MCP blocks out longer wavelengths
- CMOS camera cooling to -20°C with 2-stage TEC



Grating efficiency



Optical design with wide aperture of f/1.0



Close-up of detection by low-noise MCP

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Specifications

Topology	aberration-corrected normal-incidence spectrometer
Wavelength range	120-200nm
Detector	MCP with cooled CMOS read-out
Operating pressure	$<10^{-6}$ mbar (UHV version available)
Entrance slit	variable 0-3mm
Grating positioning	motorized closed-loop
Grating groove density	1500L/mm
Spectral filter insertion unit	optional
Control interfaces	USB or Ethernet
Software	Windows UI / Labview, VB, C, C++ SDK
Customizable	fully customizable

Dispersion	~ 11 nm/mm
Resolution	<0.5 nm
Wavelength accuracy	<0.05 nm
Deviation angle	18°
f/#	1.0

Contact us

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