



The VM 92 packs great performance in a small package. The compact 1.7 kg system can be coupled directly to a vacuum chamber through a 2.75" Conflat® style flange. It's single grating design provides high VUV efficiency while the 92 mm focal length offers an excellent balance between size and functionality.

The system can be configured either as a manual monochromator, a motorized monochromator or as a CCD spectrometer using interchangeable accessories.

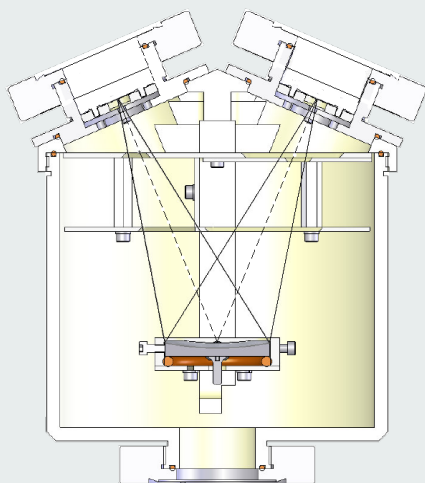
VM 92 VUV Monochromator and Spectrometer

The Resonance Ltd. vacuum monochromator and spectrometer uses standard connections to allow simple integration into most systems. The f/2.2 grating is a type 4 for minimal aberrations. It's designed to allow easy interchangeability between being a monochromator and a CCD-based spectrometer. It's supplied with LabView-based codes and drivers for integration into user software.

Features

- High throughput f/2.2
- Spectral range from 25 nm to 600 nm
- Single concave grating for high VUV efficiency
- Easily switched from a monochromator to a CCD-based spectrometer
- Only 1.7 kg mass, 1 liter internal volume
- Fixed interchangeable or adjustable slits
- LabView-based software.





| Specifications | |
|--------------------------------|----------------------------------|
| Focal Length | 92 mm |
| F/No | 2.2 |
| Wavelength Range | 25 to 600 nm |
| Resolution | 1 nm with 25 um slit |
| Wavelength Accuracy | +/- 0.3 nm with standard grating |
| Wavelength Reproducibility | +/- 0.2 nm |
| Dispersion | 3.45 nm/mm |
| Focal Plane | 30 mm max width |
| Standard Grating | 1800 G/mm |
| Grating Size | 37 x 37 mm |
| Standard CCD | Back-thinned 28 mm 2048 pixels |
| Standard Interchangeable Slits | 25 to 4000 um width |
| Adjustable Slits Option | 25 to 4000 um width |
| Quantum Efficiency (@150 nm) | > 50% |
| Stray Light | < 2x10 ⁻⁴ in VUV |
| Ultimate Vacuum | < 10 ⁻⁶ torr |
| Dimensions | 18 cm dia. 16 cm high main body |

