



VM 150CT, 300CT, 600CT Spectrometer



These unique spectrometers offer some of the best performance specs available in the compact VUV market with resolution comparable to much larger systems and an unmatched wavelength accuracy. Affordable interchangeable gratings can be used to extend the range in the visible and IR regions. Configurable as either as a motorized monochromator or as a CCD spectrometer using interchangeable accessories, these unique spectrometers can be coupled directly to a vacuum chamber through 2.75" Conflat® style flanges.

The Resonance line of Czerny-Turner spectrometers uses an Absolute Encoded Grating Drive (AEGD) to compensate for any possible mechanical inaccuracies to determine the absolute grating position. This two-stage grating control and wavelength tracking uses a kinematic sine drive with a ferro-fluidic vacuum feed-through paired with a arc-second accurate optical rotation encoder, providing the most reliable wavelength accuracy and reproducibility available on the market.

Features

Spectral range from 115 nm to 6000nm

Monochromator mode or CCD spectrometer mode

AEGD for absolute wavelength accuracy

Hyperspectral imaging options

Interchangeable gratings

Adjustable slit(s)

LabView-based software

Low astigmatism

VM 150CT, 300CT, 600CT Specifications			
	VM150CT	VM300CT	VM600CT
Focal Lengthf	150	300	600
Standard Grating (g/mm)	1200	3600	3600
F/No.	3.4	4.8	5.4
Wavelength Range (nm)	115 - 1000	115 - 600	115 - 600
Resolution with 25 mincron slit	0.1	0.03	0.015
Wavelength Accuracy (nm)	0.05	0.05	0.05
Wavelength Reproducibility	0.005	0.005	0.005
Stray Light	2x10 ⁻⁴ in the VUV	2x10 ⁻⁴ in the VUV	2x10 ⁻⁴ in the VUV
Focal Plane	30mm	30mm	30mm
Ultimate Vacuum	10 ⁻⁶ torr	10 ⁻⁶ torr	10 ⁻⁶ torr
Motorized Wavelength Drive	Yes	Yes	Yes
Spectrometer and Monochromator	Yes	Yes	Yes



