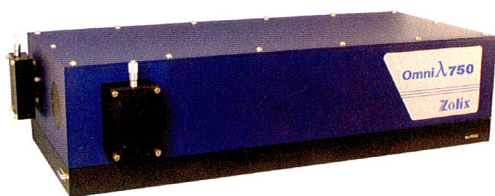


# Omni- $\lambda$ 750

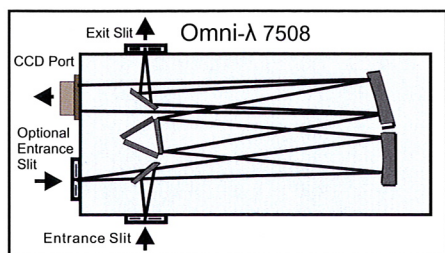
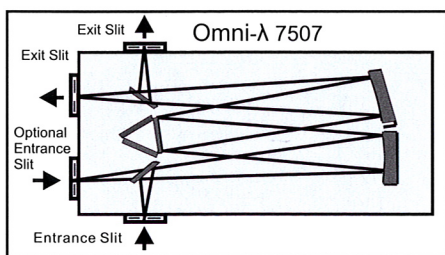
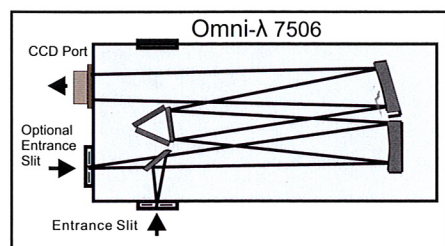
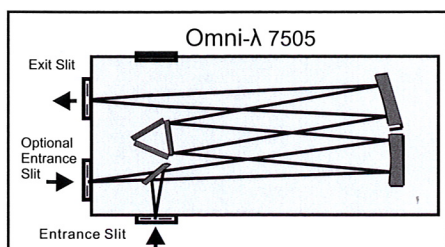
## Monochromator / Spectrograph



The Omni- $\lambda$  750 monochromator / spectrograph is a 750mm focal length instrument that is designed to provide a dispersion of 1.1nm/mm using a 1200g/mm grating across the large flat field exit port. The system features the Omni- $\lambda$  triple grating turret on its precision kinematic mount that allows easy interchange and automatic realignment of the turret. Each turret can accommodate up to three gratings. The USB 2.0 interface to the microprocessor controller allows easy connection to your experiment control system or user programming using the ActiveX control. Thanks to the microprocessor controller up to 9 grating conditions, linearisation functions and spectral calibrations can be stored

providing a high versatile research instrument for a wide variety of spectroscopy applications.

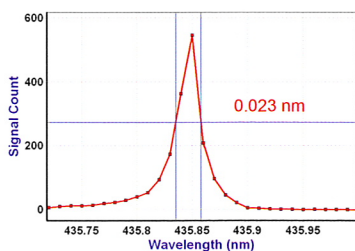
The spectrograph is designed using a high quality single piece casting for enhanced mechanical stability ensuring that the system maintains spectral performance at all times. With a 1200g/mm grating the spectral resolution of the Omni- $\lambda$  750 is better than 0.03nm making it an ideal monochromator spectrograph for high resolution spectroscopy, especially since it also features a high aperture of f/9.7 and excellent light gathering capability. This is an excellent system for demanding measurements in for example: photoluminescence, laser fluorescence, atomic emission



### SPECIFICATIONS

PARAMETER	VALUE	UNITS
Focal length	750	mm
Aperture ratio	f / 9.7	
Mechanical scanning range	0 to 1200	nm
Resolution	0.03	nm
Grating mount	Interchangeable triple grating turret	
Grating size	68 x 68	mm <sup>2</sup>
Dispersion	1.1	nm / mm
Wavelength accuracy	0.11	nm
Repeatability	0.02	nm
Drive step size	0.005	nm
Focal plane size	25 (w) x 14(h)	mm <sup>2</sup>
Standard slits	0.01 - 3, continuously adjustable	
Slit height	14	mm
Optical axis height	134	mm
Size	800 (l) x 338 (w) x 195 (h)	mm <sup>3</sup>
Weight	33	kg

All specifications are for a 1200g/mm grating unless stated otherwise. All specifications may be subject to change without notice.



Mercury Light Source 435.83nm  
 FWHM:0.023nm  
 Peak Wavelength: 435.85nm  
 Grating: 1200 l/mm, Blaze @ 300nm



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