

Sciencetech Inc.

9040 High Resolution Half Meter

Technical Specifications

Design	Czerny-Turner Optical Configuration
Input Focal Length	500mm
Output Focal Length	550mm
Wavelength Selection	Computer controlled (optional: manually controlled) sine drive with readout
Mechanics	Manual or motorized sine drive
Spectral Range*	0-1,200nm
Scanning range*	
Drive Step Size	
Aperture	f/6.9 Version with 64 x 64mm grating f/5.2 Version with 84 x 84mm grating f/4.0 Version with 102 x 102mm grating
Grating	Single grating, with removable kinematic mount
Optical Resolution*	0.03nm Optical Resolution (<i>F/6.9, 1200l/mm, 10μm slits</i>)
Scanning Resolution*	
Stray Light*	
Dispersion*	1.53nm/mm (<i>1200 l/mm grating</i>)
Wavelength Accuracy*	± 0.05
Wavelength Reproducibility*	± 0.025
Flat Field Size	
Flat Field Angle	
Slit	Hi-Resolution manual bilaterally adjustable 0-10 mm, 10-20 mm, or 20-30 mm (height) 0-6 mm (width) in steps of 10 μ m
Optical Plane Center Height	140.1 mm (5.515") for 102 mm grating
Dimensions	711 x 381 x 254mm (28" x 15" x 10")
Weight	35 kg

**All Specifications are for a 1200 l/mm grating except where stated otherwise.*