

Sciencetech Inc.

9490SD Single and Double Pass

Technical Specifications

Design	Czerny-Turner optical configuration (single/double pass)
Input Focal Length	914 mm (single pass)
Output Focal Length	1000 mm (single pass)
Wavelength Selection	Motorized, computer controlled sine drive for wavelength selection
Mechanics	0.02 nm (1200 l/mm grating)
Spectral Range*	180 nm to 50 μ m
Scanning range*	0 - 1200 nm (1200 l/mm grating)
Drive Step Size	
Aperture	f/7.4 (square 110 mm grating) f/9.7 (square 84 mm grating) f/13 (square 64 mm grating)
Grating	84 x 84 mm for 9490 102 x 102 mm for 9490F Ruled or Holographic Standard: single grating on kinematic mount Optional: 4-grating turret
Optical Resolution*	0.034 nm with 600 l/mm grating 0.017 nm with 1200 l/mm grating 0.006 nm with 3600 l/mm grating
Scanning Resolution*	Single Pass: 0.83 nm/mm Double Pass: 0.42 nm/mm
Stray Light*	
Dispersion*	
Wavelength Accuracy*	± 0.03 nm
Wavelength Reproducibility*	± 0.01 nm
Flat Field Size	
Flat Field Angle	0.5°
Slit	4 mm to 40 mm (height) 10 μ m to 6.5 mm (width)
Optical Plane Center Height	200.5 mm
Dimensions	112 x 56 x 36 cm (44" x 22" x 14")
Weight	115 kg

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