

Sciencetech Inc.

Model 8010 Flat Field Spectrograph

Technical Specifications

Design	Asymmetric Czerny-Turner scanning monochromator/spectrograph
Input Focal Length	200 mm
Output Focal Length	200 mm
Wavelength Selection	Manually controlled grating and wavelength selection with readout
Mechanics	Sine drive mechanism for grating turret
Spectral Range*	0-1050 nm
Aperture	f/3.5 for 8010 f/2.6 for 8010F
Grating	50 mm x 50 mm for 8010 f/3.5 64 mm x 64 mm for 8010F f/2.6 Up to two gratings can be mounted in the 8010
Optical Resolution*	0.5 nm
Stray Light	2.5×10^{-5}
Dispersion*	4.0 nm/mm
Wavelength Accuracy*	± 0.2 nm
Wavelength Reproducibility*	± 0.2 nm
Flat Field Size	25 mm
Flat Field Angle	-2.78°
Slit	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	76.2 mm
Dimensions	254 x 287 x 137mm (10" x 11.3" x 5.4")
Weight	6 kg

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