

# Sciencetech Inc.

## 9055 Computer Controlled Monochromator/Spectrograph

### Technical Specifications

Design	Modified Czerny-Turner monochromator/spectrograph
Input Focal Length	200 mm
Output Focal Length	250 mm
Wavelength Selection	Motorized grating and wavelength selection
Mechanics	Direct drive stepping motor
Spectral Range*	0-1000nm, depending on grating(s).
Scanning range*	
Drive Step Size	
Aperture	f/3.5 for 9055 f/2.5 for 9055F
Grating	Triple 50x50 mm grating turret for 9055 Dual 64x64mm grating turret for 9055F
Optical Resolution*	0.2 nm for 9055 0.4 nm for 9055F
Scanning Resolution*	
Stray Light*	$4 \times 10^{-5}$
Dispersion*	4.0 nm/mm for 9055 3.3 nm for 9055F
Wavelength Accuracy*	$\pm 0.2$ nm
Wavelength Reproducibility*	$\pm 0.1$ nm
Flat Field Size	25 mm
Flat Field Angle	$- 1.69^\circ$
Slit	0-10 mm, 10-20 mm, or 20-30 mm (height) 0-6 mm (width) in steps of 10 $\mu$ m
Optical Plane Center Height	76.2 mm (3") for 9055 86.4 mm (3.4") for 9055F
Dimensions	394 x 262 x 129mm (15.5" x 10.3" x 5")
Weight	7.5 kg for 9055 15 kg for 9055F

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