

Fiber Optic Spectrometer



Aurora 4000

Features:

- Up to 0.1 nm (FWHM) optical resolution
- Convenient operation
- Customized wavelength range and resolution
- Fit various applications

SPECIFICATIONS

Detector	
Wavelength range	200-1100nm
Pixels	3648 pixels
Pixel size	8um*200um
Sensitivity	130 photons/count at 400nm 60 photons/count at 600nm
Spectrometer	
Dimensions	149*105*46mm
Weight	840 (g)
Optical resolution	<0.75nm FWHM (Depending on the grating mark density and the slit size, available in a variety of options)
Signal-to-noise ratio	300:1 (at full spectrum)
Dark noise	12RMS counts
Dynamic range	3.4*10 ⁶ (system)
Integration time	4ms-10s
Stray light	<0.05%@600nm; <0.10%@435nm
Corrected linearity	>99.8%
Optical Bench	
Design	f/4, Symmetrical crossed Czerny-Turner
Focal length	101.6mm input and output
Entrance aperture	5,10,25,50,100 or 200 (um)
Grating	A variety of different grating, ultraviolet and infrared
Fiber optic connector	SMA905 to 0.22 numerical aperture single-strand fiber
Electronics	
Power consumption	450mA@5VDC
Trigger mode	2 kinds
Data transfer speed	Full scans into memory every 4 ms with USB 2.0; every 18 ms with USB 1.1
Connector	30-pin connector
Warranty Period	1 year

Dimensions

