

## 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

|                       |   |
|-----------------------|---|
| <b>Detector</b>       |   |
| Wavelength range      | 200-1100nm  |
| Pixels                | 3648 pixels   |
| Pixel size            | 8um*200um   |
| Sensitivity           | 130 photons/count at 400nm<br>60 photons/count at 600nm   |
| <b>Spectrometer</b>   |   |
| 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 <sup>6</sup> (system)  |
| Integration time      | 4ms-10s   |
| Stray light           | <0.05%@600nm; <0.10%@435nm  |
| Corrected linearity   | >99.8%  |
| <b>Optical Bench</b>  |   |
| 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   |
| <b>Electronics</b>    |   |
| 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

