





## At a Glance

**Spectral range:** 200-1100 nm

(configurable within this range)

**Optical resolution:** Depends on configuration;

0.8 nm (FWHM) w/600-line/mm grating and

5 µm slit

**SNR (single scan):** 290:1

**Dynamic range (single scan):** 5000:1

**Integration time:** 10 µs-10 seconds

**Scan rate (maximum):** 4,500 scans/second\*

**Onboard processing:** Buffer depth (up to 50,000

spectra); averaging (up to 5,000 spectra)

**Thermal stability:** 0.11 pixels/° C

**Entrance slit:** 5, 10, 25, 50, 100 or 200 µm

width slits

**Input fiber connector:** SMA 905 or FC

\* *Varies by performance of operating computer and system.*

## Spectrometer Features and Benefits

### CMOS DETECTOR

Benefits	Sample Applications
Responsive from 200-1100 nm, with great sensitivity in the UV and NIR	<ul style="list-style-type: none"> <li>• Biomedical applications (e.g., DNA absorbance)</li> <li>• UV gas analysis</li> </ul>

### FAST ACQUISITION SPEED & ONBOARD AVERAGING

Benefits	Sample Applications
<p>Acquire and process more spectral data in less time for faster, more reliable answers</p> <p>Onboard averaging increases SNR and reduces cumulative data transfer times</p>	<ul style="list-style-type: none"> <li>• Food sorting and processing</li> <li>• Flicker measurements</li> <li>• Laser characterization</li> <li>• High-intensity plasma measurement</li> <li>• Measurements from transient events</li> <li>• Testing and QC in production environments</li> </ul>

### BUFFERING AND TIMESTAMPING

Benefits	Sample Applications
Onboard buffer holds up to 50,000 spectra so you don't miss a single data point during measurement	<ul style="list-style-type: none"> <li>• Chemical kinetics such as enzyme reactions in cells</li> <li>• Reaction kinetics for drug development</li> </ul>

### VERSATILE COMMUNICATIONS MODULE

Benefits	Sample Applications
Operates via Gigabit Ethernet, Wi-Fi, RS-232 and USB	<ul style="list-style-type: none"> <li>• Remote monitoring</li> <li>• Portable instrumentation</li> <li>• Process applications</li> <li>• OEM product development</li> </ul>

**For more information, please contact an Application Sales Engineer today.**