

SPECTRALINE[®]

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1291-A Cumberland Avenue
West Lafayette, IN 47906

*Process Monitoring
Solutions*



*High Speed
Spectrophotometers*

*Widest Spectral Range:
0.3 to 1.1 microns and
1.2 to 4.9 microns*



Process Monitoring Solutions

The ES200 and VS100 range of imaging spectrophotometers provide the **fastest** and **widest spectral range** for unmatched **reliability** in process monitoring. With no moving parts, these ruggedized instruments can be directly deployed on the **factory floor** for the most challenging applications.

The ES200 provides spectra from **1.2 to 4.8 microns** at a spectral acquisition rate of 1320 Hz. The ultra fast VS100 measures radiation intensity from 0.3 to 1.1 microns at the **blazing speed** of 40 KHz. Together they offer industry the capability to study processes that occur at high speeds.

The LS200 is a **high speed thermal imager** that captures line images at 1320 Hz and operates in the 1.2 to 4.8 microns range.



US Patent 6,335,930

Applications include:

ES 200 Imaging Spectrometer

- Process Monitoring in Metal and Glass Foundries
- Hyperspectral Imaging
- Quality Audit of Liquids and Gases



VS 100 Ultra-fast Visible Spectrometer

- Explosion studies
- Combustion inside engines
- Rocket plume signatures



LS 200 Thermal Line Scan Camera

- Turbulent Flame Analysis
- Quality audit of high speed plastic webs
- Thermal imaging of wheels in cars and trains



Process Monitoring Solutions

A wide range of hardware accessories and software modules provide customized solutions.

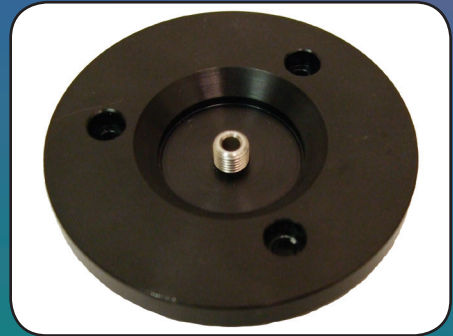
Hardware Accessories



1-D and 2-D scanner for hyperspectral imaging



Pointing laser and focus tube



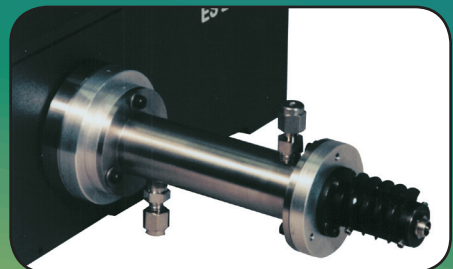
Fiber coupler



Calibration filter wheel



PXI data acquisition system



Gas absorption cells

Software Accessories

- Customized user interface for quality audit reports
- Gas concentration and temperature modules
- Full emission tomography for flame characterization
- Database integration



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