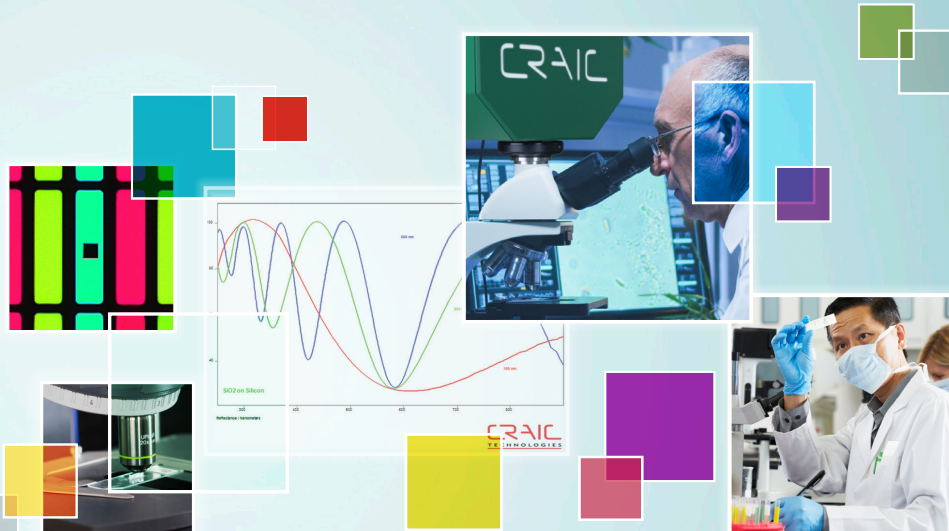


## Adding Spectroscopy to Your Microscope™

The **508PV™** microscope spectrophotometer is a rugged, precision tool designed to be added to an optical microscope. Depending upon the microscope configuration, the 508PV™ enables you to acquire absorbance, reflectance, fluorescence and even polarization spectra of sub-micron sized samples. It is offered with a spectral range from the deep UV to the near IR as it can also be used to upgrade older model microspectrometers with the latest technologies and software.

The 508PV™ features Lightblades spectrophotometers, thermoelectric cooling for improved spectral performance, parfocal and parcentral adapters for your microscope and a variable sampling size with absolute reproducibility. Powered by CRAIC Technologies advanced LambdaFire™ control and analysis software, the 508PV™ is also able to measure thin film thicknesses in addition to creating 5D spectral maps of samples. The 508PV™ is flexible, advanced, simple to use and will give years of reliable service.

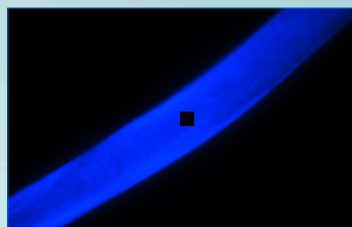


### 508PV™ Key Features:

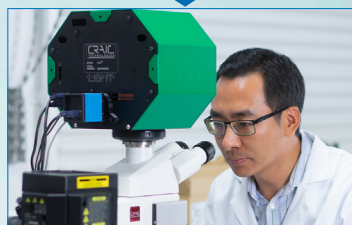
- Add spectroscopy to your microscope now!
- Microspectroscopy of even micron sized samples.
- 508 PV™ spectral range from 200 to 2100 nm limited only by the microscope.
- Multiple spectroscopy techniques fitted to your microscope.

## SPECIFICATIONS

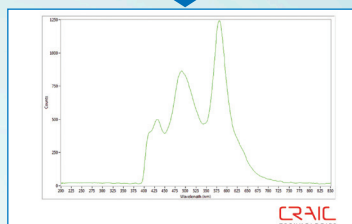
Types of Microspectroscopy	Absorbance, Reflectance, Fluorescence, Kinetics, Polarization
Spectrometer Spectral Range	200-2100 nm*
High Resolution Color Imaging	Included
Fluorescence Excitation	365 - 546 nm
Fluorescence Emission	400 - 900 nm
Spectrometer	Lightblades™
Sampling Area	Variable from 1 to 10,000 microns <sup>2</sup>
Reproducible Sampling Areas	Absolute
Detector Cooling	Thermoelectric
Spectral Resolution	User selectable, 1 - 15 nm
Full Spectrum Scan	14 milliseconds
Thin Film Thickness	From as thin as 5 nm
Full Automation	Available
5D Spectral Mapping	Available
Operating System	Windows



Add UV-vis, fluorescence and time resolved spectroscopy to your microscope.



508PV™ adds spectroscopy and film thickness measurements to microscopes, probe stations and older microspectrometers.



Fluorescence emission spectrum of a single textile fiber.

## Spectral Range



## Calibration Standards

- ☐ Transmittance Standards traceable to NIST
- ☐ Reflectance Standards traceable to NIST
- ☐ NIST Raman Standards
- ☐ Vitrinite Coal Reflectance Standards
- ☐ Fluorescence Standards

## System Software

- ☐ rIQ™ Glass Refractive Index
- ☐ 5D Spectral Mapping
- ☐ Thin Film Thickness Measurement
- ☐ TimePro Kinetics™
- ☐ Colorimetry
- ☐ Statistical Analysis

## Accessories

- ☐ Quartz Slides and Coverslips
- ☐ CRAIC Certified Lamps
- ☐ Quartz Wellplates
- ☐ Specular Reflectance Material

## Illumination Packages

- ☐ Transmission/Absorbance UV-VIS-NIR
- ☐ Reflectance UV-VIS-NIR
- ☐ Fluorescence UV-VIS-NIR
- ☐ Photoluminescence
- ☐ Polarization

## Spectrometer Packages

- ☐ Visible-NIR range, 350-1000nm
- ☐ UV-Visible-NIR range, 200-900nm
- ☐ NIR range, 900-1700 nm
- ☐ NIR-SWIR range, 900-2100 nm

## Microspectroscopy Stages

- ☐ Manual XY
- ☐ Rotating & XY, 360deg/30mm x 40mm
- ☐ Semi-Rotating stage, up to 240deg
- ☐ Programmable XY Stage

