

508 PV™

Microscope Spectrophotometer

Microspectroscopy and Imaging With Your Microscope



The 508 PV™ can be added to any microscope or probe station with an open photoport. This gives you the ability to take spectra and capture images...or even video and full-range kinetic spectra, quickly and easily. Depending upon the microscope's configuration, you will be able to take absorbance, transmittance, reflectance, polarization and even fluorescence and emission microspectra™ of microscopic samples. CRAIC Technologies also supplies microscopes that have been specially designed for microspectroscopy resulting in greater spectral range, enhanced signal-to-noise and superior imaging results.

The 508 PV™ microscope spectrophotometer can also be used to upgrade older microspectrophotometers with cutting edge technology. The 508 PV™ replaces the old spectrometer, electronics, software and computer equipment with state-of-the-art capabilities and features.

The 508 PV™ offers Lightblades™ spectrophotometers specifically designed for microspectroscopy, TE cooling for long term stability and lower noise levels, scientific grade interface optics to the microscope, universal c-mount adapters, and integrated spectral analysis, image analysis, and instrument control software package. The instrument is solid state, simple-to-use, and designed to give many years of trouble-free service.

508 PV™ Key Features:

- Variable Sampling areas with Absolute Reproducibility
- Transmittance, reflectance, and fluorescence capable
- Spectroscopy with your optical microscope
- All solid state for reliable service
- High resolution color imaging

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Instrument Options

- Detector Thermo Electric Cooling
- Permanently Calibrated Variable Aperture Package
- X-Y-Z Centerable Universal C-Mount Adapter
- Programmable XY Stage

Available Spectral Ranges

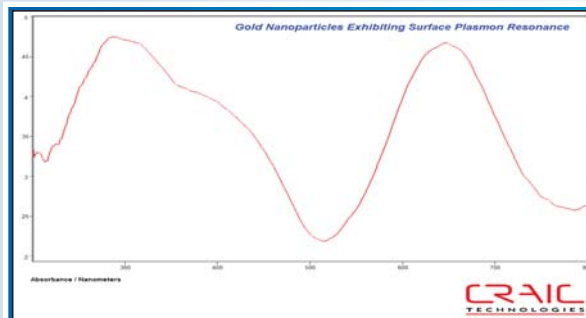
- 200 - 850nm Spectral Range
- 350 - 900nm Spectral Range
- 900 - 1700nm Spectral Range
- 900 - 2100nm Spectral Range

Camera Packages

- 1.3 Megapixel
- 3.3 Megapixel
- 5 Megapixel
- Use your own camera



508 PV™ Spectral Range



Gold Nanoparticles exhibiting Surface Plasmon Resonance spectra in UV-vis-NIR absorbance with 508 PV™ and CRAIC UVM-1™ Microscope.

508 PV™ SPECIFICATIONS

Spectrophotometer Ranges* (select one)	200 to 900 nm 350 to 1000 nm 900 to 1700 nm 900 to 2100 nm
Fluorescence Excitation	365 to 546 nm
Laser Illumination	Available
Sampling Area	Variable from 1 to 10000 microns ²
Spectral Resolution	User selectable from 1 to 15 nm
Detectors	CCD and InGaAs Arrays
Detector Cooling	Available
Scan Time (Full Range)	8 millisecond minimum
High Resolution Color Imaging	Included
Image Resolution	Up to 5 Megapixels
Programmable Stage	Available
Operating System	Windows 7 Pro, Windows 8

Calibration Standards

- Transmittance Standards traceable to NIST
- Reflectance Standards traceable to NIST
- White Diffuse Reflectance Standard traceable to NIST
- Vitrinite Coal Reflectance Standards
- Fluorescence Standards

System Software

- rIQ™ Glass Refractive Index
- CRAIC CoalPro™
- Thin Film Thickness Measurement
- Spectral Database
- Spectral Surface 3D Mapping
- Colorimetry
- CRAIC TimePro™

Service Contracts

- One Year Extended Warranty
- One Year Service Contracts
- Platinum Gold Silver

