

## Multiple Techniques In One Powerful Instrument

The **2030PV PRO™** microspectrophotometer is a bespoke instrument built to meet your exacting needs. A powerful, modular system that combines multiple spectral techniques, the 2030PV PRO™ represents the cutting edge standard for microspectrometers. The 2030PV PRO™ is a turnkey system configured and built to your requirements. Featuring a spectral range from the deep ultraviolet to the near infrared, this microspectrophotometer is capable of measuring the spectra of even sub-micron samples by absorbance, reflectance, kinetics, polarization, fluorescence and photoluminescence. The 2030PV PRO™ is also offered with Raman, thin film thickness measurements and 5D mapping. Incredibly, the system is also capable of high resolution UV-visible-NIR imaging.

Incorporating the latest engineering advances, the 2030PV PRO™ features the latest in Lightblades™ spectrometers, a technology designed specifically for high performance Microspectroscopy. 2030PV PRO™ integrates advanced optics, software, hardware and Lightblades™ in a powerful yet flexible instrument. Built as a modular, durable but easy-to-use system, the 2030PV PRO™ is the perfect tool to yield the results that you need.

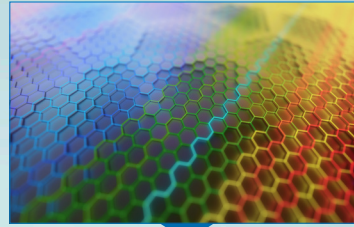


### 2030PV PRO™ Key Features:

- Confocal spectroscopy of even sub-micron samples.
- Multiple spectroscopy techniques combined in one instrument.
- Multiple imaging techniques all in a single UV-vis-NIR microscope.
- Permanently calibrated, absolutely reproducible measurement areas.

**SPECIFICATIONS**

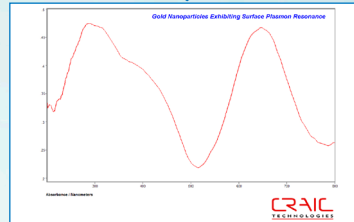
Types of Microspectroscopy	Absorbance, Reflectance, Fluorescence, Photoluminescence, Polarization, Kinetics, Raman
Microspectrometer Spectral Range	200-2500 nm
Microscope Imaging Spectral Range	220-1700 nm
High Resolution Color Imaging	Included
Fluorescence Excitation	280 - 546 nm
Fluorescence Emission	300 - 1000 nm
Lighting System	Scorpii™ with SampleSafe™ technology
Microscope Imaging Range	Deep ultraviolet, color and near infra-red
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



The 2030PV PRO™ - A powerful tool designed for reliability, flexibility – to solve your tough problems.



Combining many types of spectroscopy and imaging in a single tool.



UV-Visible-NIR spectrum of gold nanoparticles exhibiting surface plasmon resonance.

**Spectral Range**



**Calibration Standards**

- Transmittance Standards traceable to NIST
- Reflectance Standards traceable to NIST
- NIST Raman Standards
- Vitritinite 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
- SWIR range 2000-2500 nm
- Raman



**Microspectroscopy Stages**

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

