

Raman Spectroscopy

A Full Range of Solutions

HORIBA Scientific manufactures the most extensive range of Raman spectrometers, incorporating class leading and innovative technology developed through our world leading technical expertise.

We offer not only instrumentation, but also an unparalleled continuing system support and collaboration including application oriented consulting, outstanding qualified service support, comprehensive seminar, educational and training programmes.

The following overview is intended to guide you through our range of different Raman equipment product lines, matching the important factors for your choice be it budget, application or user environment.

LabRAM Series: High Performance Raman with Automation

- System:** **LabRAM HR Evolution**, latest generation research Raman microscope
- Applications:** Materials, semiconductors, carbon, catalysis, chemistry, polymers...
- Specifications:**
- High spatial and spectral resolution
 - Ultra low frequency access
 - Fast imaging capability using our SWIFT® accessory
 - From UV to NIR: 200 to 2100 nm
 - Multi-laser multi detectors capability

XploRA Series: Simply Better Raman

- System:** The **XploRA** series, compact and rugged confocal Raman microscope
- Applications:** Pharmaceuticals, forensics, biology, geology, gemmology, archaeology, art, etc.
- Specifications:**
- 1, 2, or 3 lasers integrated for Vis/NIR
 - Automated XYZ mapping with autofocus
 - Safety enclosure available

Integrated AFM/Raman: optical nanospectroscopy at the nanoscale

- System:** **XploRA Nano, HR Evo Nano** and **TRIOS platform**
- Applications:** Materials science, nanomaterials, surface chemistry, semiconductors, biology.
- Specifications:**
- Bringing together Scanning Probe Microscopes (physical characteristics of materials) and Raman spectroscopy (specific chemical sensitivity) in a combined and integrated system.
 - The solutions are optimized for co-localized measurements and Tip Enhanced Raman imaging, and offers the versatility of top, side and bottom optical access.

LabRAM



XploRA



AFM/Raman



T64000: The Ultimate in Raman Spectroscopy

System: The **T64000** - for the most demanding and specialist applications

Applications: Solid state physics, semiconductors, materials research, ...

- Specifications:**
- Extreme flexibility due to the unique construction incorporating double subtractive, single and triple additive monochromator operation
 - Unique configuration for the widest spectral range and use of continuous tuneable lasers
 - Extreme stray light rejection: 10^{-14}
 - Exceptional spectral resolution ($< 0.15 \text{ cm}^{-1}$)
 - Ultra low frequency (down to 5 cm^{-1} cut-off) measurement

Inverted Microscope Capability

System: Raman spectrometers with integrated inverted microscopes

Applications: Designed specifically for biomedical or biological samples, this configuration allows open access for samples handling during measurements.

Modular Raman Spectrometers

System: Flexible Raman spectrometers and components - build and customise your own Raman experiment

- Specifications:**
- Spectrometer with a set of three gratings
 - CCD detector
 - Choice of fiber optic microscope or Raman probe

LabSpec 6 Spectroscopy Suite Software

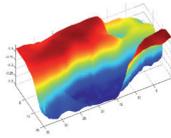
The LabSpec 6 software platform delivers a unique environment for complete instrument control and data processing. Its intuitive interface enables logical work flow throughout the course of an experiment, from visualization of the sample and measurement set up, to interpretation of the data, and final reporting of the results.

Accessories

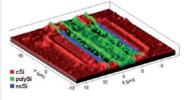
All of our instruments can be upgraded at any time with new options such as additional lasers and detectors, heating/cooling stages, remote probes, fast imaging modules, transmission accessory, etc.



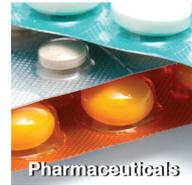
Material Science



Carbon materials



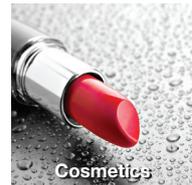
Semiconductors



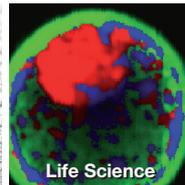
Pharmaceuticals



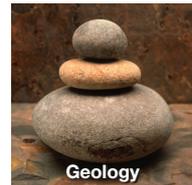
Museum



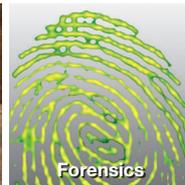
Cosmetics



Life Science



Geology



Forensics



T64000



Inverted
Microscope



Modular Raman



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