

Teksan Co.

Light Spectroscopy Instruments

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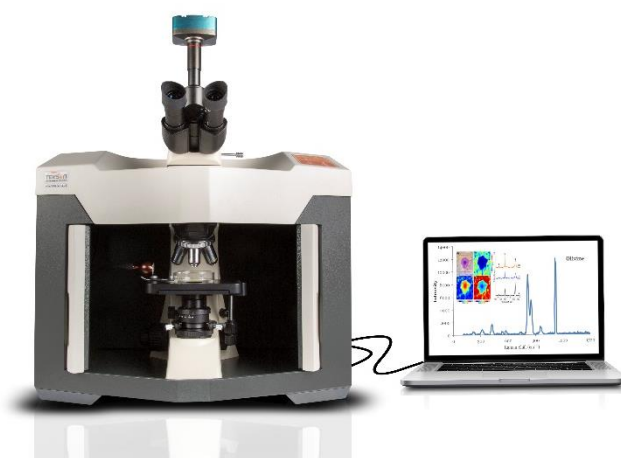
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For more information on any of
our products or services please
visit us on the Web.

Raman Microscope (TAKRAM - 532 nm Laser Excitation)

Maximum Detail, Resolution and Range

Full option and user-friendly computer program



Application Areas

- Materials Engineering
- Food & Beverage Quality Control
- Chemistry
- Pharmaceutic
- Biology
- Physics
- Protein & Nucleic Acid Analysis
- Volcanology
- Color Analysis
- Environments
- Nanotechnology
- Polymers
- Agriculture

Raman spectrum contains the information on material identity (e.g. characteristic Raman bands), material composition (e.g. peak intensity or multivariate analysis scores), molecular structure or strain (e.g. peak position), crystallinity or phase (e.g. peak width), and more. Teksan Scientific's spectroscopy Raman Microscopes suite offers comprehensive functionality including multivariate analysis (MVA) to distill this information from the spectral data into scientifically meaningful images. Raman is an ideal technique for research and industry, offering high quality data, reliability, versatility and improved value for money over other analytical techniques. Benefits not only include the range of samples that are suitable for analysis, but also the information content that is provided.

- Fastest Sampling
- Automated laser Power switching just by a single mouse click
- Large range of options
- All modes of microscopy, transmission and reflection illumination
- Spectrum online Processing
- Laser Light Power control
- Extended Spectrum acquires
- Extended Range of Raman shift for variety of samples

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Features and Specifications

| | | |
|--------------------------------|---|--|
| Laser | Type | DPSS Nd:YAG 532nm (C.W) |
| | Wavelength | 532 nm |
| | Laser Power 532 nm (mW) | 100 (50, 150 optional) |
| | Automatic Power Control | Yes |
| | Power steps | 1-100 % of full power |
| Detector | Type | Photomultiplier Tube/Cooled CCD |
| | Cooling system | Yes |
| | Signal-to-Noise Ratio | 1000:1 |
| | Integration Time | 5 ms – 10 min |
| Resolution & Range | Spatial Resolution (um) | ≈1 |
| | Spectral Resolution (cm ⁻¹) | 6 (SR Mode 3, optional) |
| | Spectral Range (cm ⁻¹) | 3800 |
| | Cut off wave number (cm ⁻¹) | 150 (70 optional) |
| Microscope | Type | Upright |
| | Objectives | 10x, 40x, 60x, 100x (LW 60x, optional) |
| | Manual Stage Movement Range (mm) | 79 (X) x 52 (Y) x 22 (Z) |
| | XY Precise Motorized Stage | 5 micron spatial resolution |
| | Stage Size (mm) | 175 (X) x 143 (Y) |
| Sample Watching ability | Transparent Samples | With All Objectives |
| | Opaque Samples | Only With 4x & 10x |
| Light Source | | Up&Down |
| Box Lamp | | Yes |
| Membrane Indicator | | Yes |
| Power Requirements | | 200 – 240 V AC, 50/60 Hz, Single Phase |
| Chamber | Weight (kg) | ≈ 25 |
| | Size (WxHxD) | 57.5 cm x 55 cm (without eyepiece) x 59.5 cm |

SERVICES AVAILABLE

Technical Support
Installation and Setup
Maintenance
Application Support
Hardware Support
Guaranteed Warranty