



SPECTROSCOPY INSTRUMENTS

Teksan Co.

Light Spectroscopy Instruments

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

Raman Microscope (TAKRAM+ Dual Laser Wavelength)

532nm and 785 nm Laser Excitation

Super Resolution Raman Microscope

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.

- Super Resolution Scanning
- Automated laser Power switching just by a single mouse click
- Precise Laser Power Control
- 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

نشانی: تهران - خیابان توحید - خیابان ستارخان - خیابان مهران آفرند - پ ۱۱ - طبقه اول. کد پستی: ۱۴۴۱۶۴۲۹۴۲
شماره تماس: ۰۹۲۱-۹۵۷۱۶۵۳ - ۰۲۱-۶۶۹۲۰۷۲۴
www.emersell.ir



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Features and Specifications

Laser	Type	DPSS Nd:YAG 532nm (C.W) DL 785nm Laser
	Wavelength	532 nm & 785nm
	Laser Power 532 nm (mW)	100 (50, 150 optional)
	Laser Power 785 nm (mW)	200 (300 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 60 cm (without eyepiece) x 59.5 cm

SERVICES AVAILABLE

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

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