

## Teksan Co.

Light Spectroscopy Instruments

### Address

Unit 104, Technology Units  
Incubator, Shahid Beheshti  
University, Tehran, Iran  
Postal code: 1983969411

### Contact information

Tel: +98 21 22402199  
Telegram: @Teksanco  
Fax: +98 21 43855749  
Linkedin.com/company/Teksan-co/

### Website and E-mail

www.teksan.ir  
Sales@teksan.ir  
info@teksan.ir

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

# Raman Microscope (TAKRAM - 785 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 Polarization control
- Extended Spectrum acquires
- Extended Range of Raman shift for variety of samples

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## Features and Specifications

<b>Laser</b>	Type	(C.W) DL 785nm Laser
	Wavelength	785nm
	Laser Power 785 nm (mW)	200 (300 optional)
	Automatic Power Control	Yes
	Power steps	1-100 % of full power
<b>Detector</b>	Type	Photomultiplier Tube/Cooled CCD
	Cooling system	Yes
	Signal-to-Noise Ratio	1000:1
	Integration Time	5 ms – 10 min
<b>Resolution &amp; Range</b>	Spatial Resolution (um)	≈1
	Spectral Resolution (cm <sup>-1</sup> )	6 (SR Mode 3, optional)
	Spectral Range (cm <sup>-1</sup> )	3800
	Cut off wave number (cm <sup>-1</sup> )	150 (70 optional)
<b>Microscope</b>	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)
<b>Sample Watching ability</b>	Transparent Samples	With All Objectives
	Opaque Samples	Only With 4x & 10x
<b>Light Source</b>		Up&Down
<b>Box Lamp</b>		Yes
<b>Membrane Indicator</b>		Yes
<b>Power Requirements</b>		200 – 240 V AC, 50/60 Hz, Single Phase
<b>Chamber</b>	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