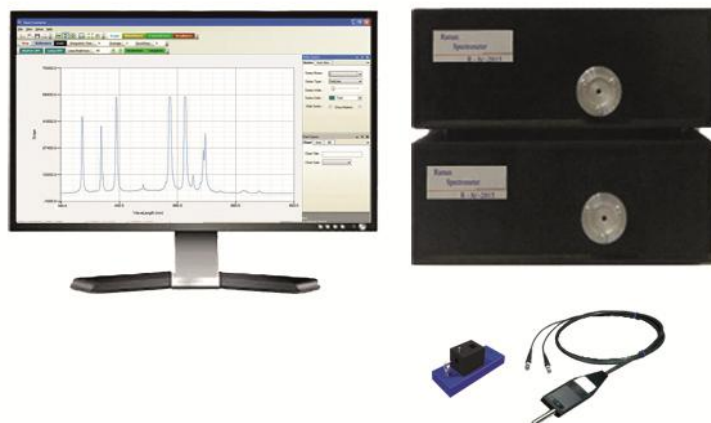




Laboratory Equipments
Analytical Spectroscopy Systems

Raman Spectrometer



Array Spectrometer
Laser Light Source
Raman Probe

طیف سنج رامان

Ram - Ar - 2015



Specifications of Raman Array Spectrometer

Optical Specifications

Wavelength range	150- 4500 cm^{-1}
Stray light	< 0.03 %
Resolution	< + 20 cm^{-1}
Signal to noise ratio	1000:1 (at full signal)
Wavelength accuracy	< \pm 1 nm
Wavelength reproducibility	< \pm 0.02 nm for 10 consecutive scans (NIST 2034)
Baseline flatness	<0.01 A 0.5 second blank, 0.5 second scan at 0 A , 500 nm
Scan time	2-2000 ms
Typical Scan Time	0.1 s
Detector	1000 channels

Laser Specifications

Laser Wavelength	532 \pm 1 nm
Output power	300 mW
Power Stability	< 1 % rms. Over 4hours
Expected Lifetime	10000 hours

Physical Specifications

Communication	USB 2
Software	Windows XP , 7, 8
Dimensions (Spectrometer)	13 \times 22 \times 28 cm
Dimensions (Light Source)	8 \times 22 \times 28 cm
Weight	8 Kg
Power	220 V AC 50/60 Hz

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