

## Raman Spectrometer

- ❖ Array Spectrometer
- ❖ Laser Light Source
- ❖ Raman Probe
- ❖ Raman Cell Holder



- Simultaneous obtained of all spectra
- Time Monitoring of spectra
- Integration time controlling using software
- Mathematical processing (Averaging, Sum, Smooth ...)

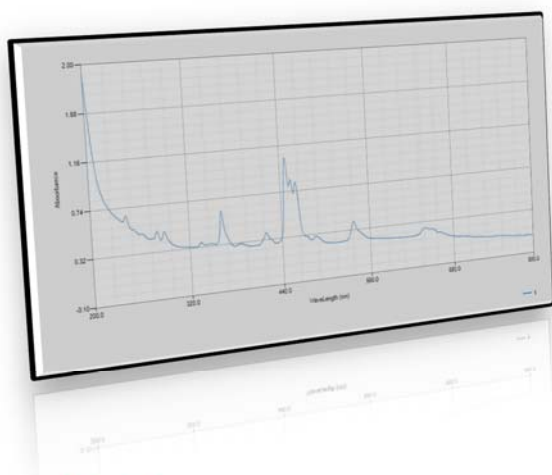
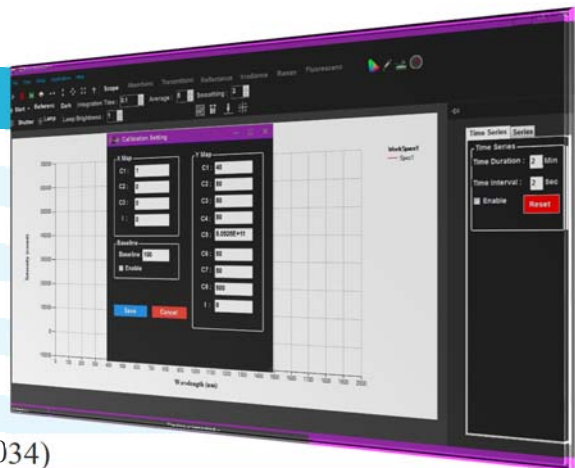
# Raman Spectrometer

RamSpec-Arn-20

## Specifications:

### Optical Specifications

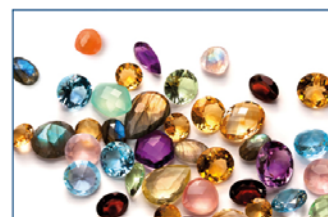
Wavelength Range	150-4500 $\text{cm}^{-1}$
Resolution	< +20.0 $\text{cm}^{-1}$
Scan Time	2-1000 ms
Typical Scan Time	0.1 s
Stray Light	< 0.03 %
Wavelength Accuracy	< $\pm 0.1$ nm
Photometric Stability	< 0.01 A/min at 0 A , 500 nm
Photometric Noise	< 0.01 A 80 scan at 0 A , 500 nm
Wavelength Reproducibility	< $\pm 0.02$ nm for 10 scans (NIST 2034)
Photometric Accuracy	< $\pm 0.01$ A at 440.0 465.0 590.0 635.0 nm (NIST 930e)
Baseline Flatness	< 0.01 A 0.5 second blank, 0.5 second scan at 0 A , 500 nm
Light Source	Laser 532 nm 200-300 mW
Laser Stability	< 1 % rms over 4 hours
Laser Lifetime	10000 Hours
Detector	2000 Multichannel



### Physical Specifications

Communication	USB2
Windows	7 , 8 , 10
Software	Spectroscopy Station
Weight	6 Kg
HxWxD	22x22x27 cm
Power	220V AC 50/60 Hz

## Applications:



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