

IndiGo Raman-532

High spectral sensitivity Raman spectrometer

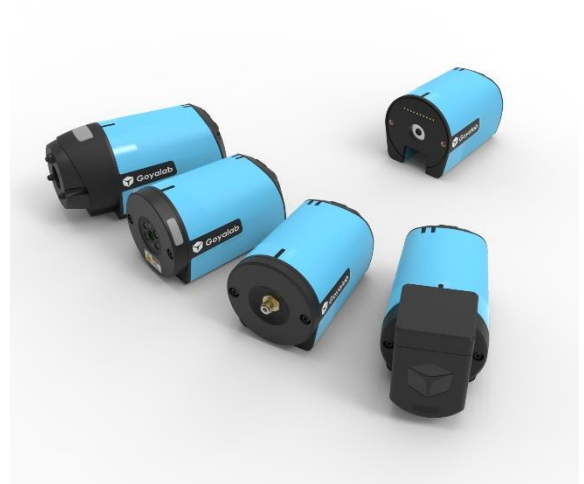
About GoyaLab

GoyaLab is a French SME that designs, develops and markets measurement tools based on spectrometry.

GoyaLab provides expertise in Research and Development, serving the industry in the development of specific applications in spectrometry.

GoyaLab's philosophy is to develop powerful spectrometry tools that are easy to use, mobile and affordable thanks to new communication technologies (smartphones, tablets).

GoyaLab wants to democratize spectrometry and make it accessible to everyone.



Raman 532nm spectrometer

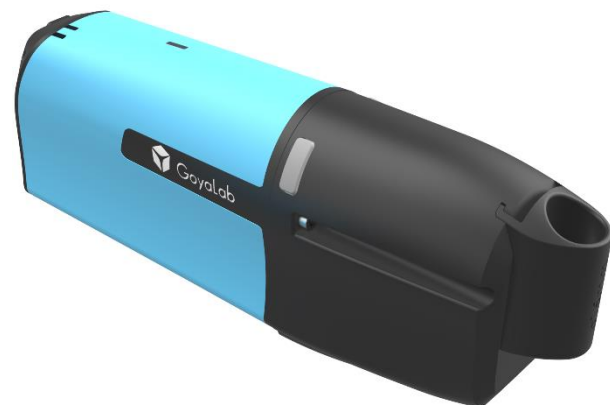
IndiGo Raman-532 is the latest model of IndiGo spectrometers line developed by GoyaLab.

IndiGo Raman-532 is a high-resolution spectrometer dedicated to Raman spectrometry

IndiGo Raman is particularly effective for the identification of liquid, solid and powder.

Thanks to its technology; GoyaLab offers affordable products with extremely good spectral accuracy and SNR.

IndiGo Raman-532 is delivered as a portable Raman spectrometer or with its Raman probe. The Raman probe includes a 532nm laser with a power of 80mW.



<i>PHYSICAL</i>	
Dimension	170mm * 70mm * 50mm
Weight	250g
<i>OPTICAL PARAMETERS</i>	
Optical resolution (FWHM)	12cm ⁻¹
Spectral range	200 – 4000 cm ⁻¹
Slits	15µm
Diffraction grating	Transmission grating 600l/mm, 580nm blaze
Optical input	SMA-905
<i>DETECTION</i>	
Sensor	CMOS - SONY IMX334 pixel size: 5µm * 5µm * 2160 lines
Exposure	1ms to 10s (multi cycles acquisition available)
Dynamic Range	20000:1
Signal to Noise Ratio	1000 :1

<i>SYSTEME CONFIGURATIONS</i>	
Battery	10h in operation & 24h in standby mode
Data Format	.txt – .csv – .spc
Power	5V - 750mA

<i>ENVIRONMENTAL CONDITIONS</i>	
Temperature	0°C - 30°C operation & -10°C - 40°C Stockage
Humidity	0% - 90% noncondensing

<i>INTERFACES</i>	
Operating system	Windows 10, 11
USB	USB-C
Software	SpectroLab included

<i>Raman Probe module</i>	
Laser wavelength	532 +/- 1nm
Laser bandwidth	0.1nm
Laser power	80mw