IndiGo Raman - 532

Handheld Raman spectrometer

- Portable and field-ready Raman spectrometer
- High sensitivity for rapid material identification
- Contact analysis with interchangeable objectives
- Integrated micrometric focusing adjustment
- Advanced processing and chemometrics software included
- High measurement reproducibility

About Raman spectroscopy

Raman spectroscopy is a quick, non-destructive technique that provides valuable molecular information without the need for extensive sample preparation. The IndiGo Raman combines laboratory-grade performance with true portability, enabling chemical identification directly in the field or at the point of need. Its compact design and interchangeable objectives, make it ideal for on-site material verification, mineral identification, educational applications, and research activities requiring rapid deployment.

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Specifications

PHYSICAL	
Dimension	150 x 45 x 53 mm
Weight	250g
OPTICAL PARAMETERS	
Optical resolution	*12cm^{-1} at midpoint of shift*
Spectral range	*150 – 4000 cm^{-1}*
NA – F-number	*0.16 - 3*
Slits	*15µm or 25µm on request*
Diffraction grating	*600l/mm, 580nm blaze*
DETECTION	
Sensor	CMOS Sensor Dim: 3840 X 2160px pixel size: 2µm
Exposure	1ms to 30s (multi cycles acquisition available)
Signal to Noise	1000 :1
RAMAN MODULE	
Laser source	532nm CW laser diode at 80mW monomode FWHM: 0.1nm
Cut off	150cm-1
Objective	Std: Olympus M PLAN 10X (interchangeable)
Sample holder	Modular and customisable sample holder
SYSTEME CONFIGURATIONS	
Battery	10h in operation & 24h in standby mode
Data Format	txt – CVS – SPC
Power	5V - 300mA
INTERFACES	
Operating system	Windows 10, Android
USB	USB-C
Software	SpectroLab
CALIBRATION	
Wavelength	Polynomial calibration over 20 points with Neon lamp and Mercury Argon lamp