INDIGO HANDHELD RANGE

IndiGo Raman 532

Handheld Raman spectrometer · 532 nm excitation

Raman spectroscopy is a fast, non-destructive technique that delivers molecular fingerprints without sample preparation. The IndiGo Raman 532 brings laboratory-grade Raman performance into a 250 g battery-powered instrument, so you can identify materials directly in the field or at the point of need. Interchangeable objectives and a micrometric focusing stage make it equally suited to on-site verification, mineral identification, teaching labs and research.



532 nm	150–4000	12 cm^{-1}	250 g	10 h
CW laser · 80 mW	Raman shift · cm^{-1}	Optical resolution	Weight	Battery life

Key features

- Portable, field-ready Raman spectrometer
- High sensitivity for rapid material identification
- Contact analysis with interchangeable microscope objectives
- Integrated micrometric focusing adjustment
- Narrow-linewidth 532 nm laser (0.1 nm FWHM)
- High measurement reproducibility
- USB-C and battery operation, Windows & Android
- SpectroLab software included, chemometrics ready

Configurations & accessories

Objectives
Supplied with an Olympus M PLAN 10X objective (RMS thread). Other magnifications on request.

Entrance slit
15 µm (highest resolution) or 25 µm (highest throughput).

Sample holder
Modular, customisable holder for powders, liquids in vials and solids.

Typical applications

Mineral & gem identification · Raw-material verification · Pharmaceutical & chemical ID · Polymers & plastics · Art & heritage · Education & research

OPTICAL	
Raman shift range	150 – 4000 cm^{-1}
Optical resolution	12 cm^{-1} (mid-range)
Entrance slit	15 µm or 25 µm
Diffraction grating	600 l/mm, 580 nm blaze

LASER & SAMPLING	
Laser source	532 nm CW laser diode, 80 mW
Laser linewidth	0.1 nm FWHM
Rayleigh cut-off	150 cm^{-1}
Objective	Olympus M PLAN 10X, removable (RMS thread)
Sample holder	Modular and customisable

DETECTION	
Sensor	CMOS, 3840 × 2160 px, 2 µm pixels
Exposure time	1 ms – 30 s (multi-cycle averaging)
Dynamic range	20 000 : 1
Signal-to-noise ratio	1000 : 1

POWER & DATA	
Battery	Li-polymer 1100 mAh 5C · 10 h operation · 24 h standby
Power supply	5 V · 300 mA (USB-C)
Data formats	.txt · .csv · .spc

INTERFACES & SOFTWARE	
Connectivity	USB-C
Operating systems	Windows 10, Android
Software	SpectroLab (acquisition, processing, libraries)
Chemometrics	Compatible with GoyaLab Expert & Capture

CALIBRATION	
Wavelength	Polynomial calibration over 20 points (Ne and Hg-Ar lamps)

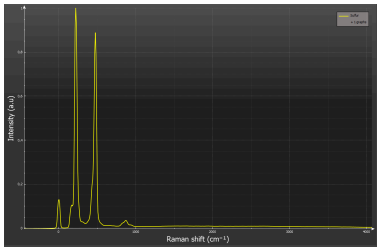
MECHANICAL	
Dimensions	150 × 45 × 53 mm
Weight	250 g

Ordering information

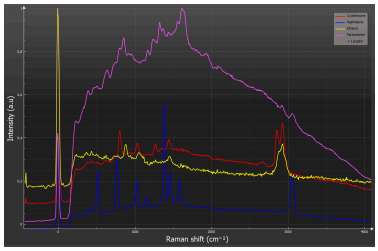
AR00183 IndiGo Raman 532 nm handheld spectrometer

Part numbers for information – please confirm with GoyaLab when ordering.

Example spectra



Raman spectrum of a reference compound acquired with IndiGo Raman 532



Overlay of chemical compound spectra (SpectroLab)

About GoyaLab — French manufacturer of portable and process spectrometers based in Talence (Bordeaux). GoyaLab designs compact, connected and affordable spectroscopy instruments — from the smartphone-based GoSpectro to the IndiGo handheld range and the T-Trace in-line process spectrometers — and supports customers in developing their own spectral applications.

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