INDIGO HANDHELD RANGE

IndiGo Raman 785

Handheld Raman spectrometer · 785 nm excitation

The IndiGo Raman 785 is the universal portable Raman spectrometer for organic and pharmaceutical analysis. Near-infrared excitation strongly reduces sample fluorescence, so active ingredients, excipients, polymers or narcotics can be identified in seconds – even through vials, blisters or plastic bags – with a 250 g battery-powered instrument.



785 nm	150–3200	12 cm^{-1}	250 g	10 h
Laser near TEM00 · 100 mW	Raman shift · cm^{-1}	Optical resolution	Weight	Battery life

Key features

- Fluorescence-reduced Raman for organic samples
- Identification through glass and plastic packaging
- Interchangeable microscope objectives (RMS thread)
- Integrated micrometric focusing adjustment
- Narrow-linewidth 785 nm laser (0.1 nm FWHM)
- Spectral library matching (HQI) in SpectroLab
- USB-C and battery operation, Windows & Android
- SpectroLink Python library for chemometrics

Configurations & accessories

Objectives
Supplied with an Olympus M PLAN 10X objective. Other magnifications on request.

Sample holder
Modular holder for vials, powders and solids.

Software
SpectroLab with baseline correction, smoothing and library search; Android point-and-shoot app.

Typical applications

Pharmaceutical raw materials (API, excipients) · Polymorphs & hydrates · Narcotics & counterfeits · Hazardous chemicals · Plastics QC · Spirits authentication · Oils & fats

OPTICAL	
Raman shift range	150 – 3200 cm^{-1}
Optical resolution	12 cm^{-1} (mid-range)
Entrance slit	15 µm
Diffraction grating	600 l/mm, 800 nm blaze

LASER & SAMPLING	
Laser source	785 nm laser, near TEM00, 100 mW
Laser linewidth	0.1 nm FWHM
Rayleigh cut-off	150 cm^{-1}
Objective	Olympus M PLAN 10X, removable
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 · Android app · SpectroLink (Python)

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

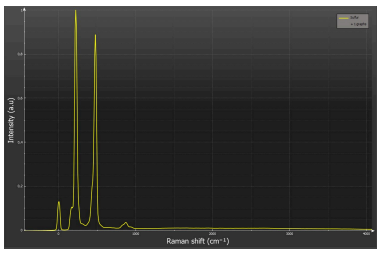
MECHANICAL	
Dimensions	150 × 45 × 53 mm
Weight	250 g

Ordering information

AR00184 IndiGo Raman 785 nm handheld spectrometer

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

Examples



Raman spectra acquired with the IndiGo Raman (SpectroLab)



IndiGo Raman 532 and 785 handheld spectrometers

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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