

# Size and dimensions of Raman spectrometer



## Overview

The size of the spectrometer is only 61 x 64 x 19 mm and yet it covers a wide spectral range of 475 nm to 1100 nm with a high resolution of 0. The spectrometer is very flexible and can be used with many different laser wavelengths covering the popular 532, 785, and 830 nm. High Res for 200-3500  $\text{cm}^{-1}$  @ 1064nm with 8  $\text{cm}^{-1}$  resolution via PDA with TEC cooled 1024 pixel InGaAs photodiode array. The total dimensions of the miniRaman spectrometer module are 25 x 30 x 105 mm including two lasers, laser beam delivery optics, set of sample probes, Raman beam delivery. The Thermo Scientific™ iXR™ Raman spectrometer is specifically designed to bring research-grade measurements to your most challenging analytical applications. It is ideal for coupling to other analytical equipment, lending chemical composition and structural information to multi-modal analyses. Automatic switching of imaging lens for optimized spectrograph illumination. \*Red wavelengths are recommended lasers. \*In case of 1,064 nm, detector needs to be changed to InGaAs. 5x, 20x, 100x, (Plan Achromat objective lens) Manual 6 position objective carousel as standard Electronic drive 6. BRAVO is THE handheld Raman spectrometer dedicated for fast raw materials identification and verification with optimal spectrum quality and an unrivalled bunch of features.

## Article Content

Congo Raman Portable Spectrometer Market | Share

Research on Congo Raman Portable Spectrometer Market evaluates market size, revenue potential, and growth opportunities in this innovative sector.

BRAVO Handheld Raman Spectrometer | Bruker

With the spectral range extension down to  $170\text{ cm}^{-1}$  a broader range of pigments can be analyzed. When positioning is crucial to the object analysis, the

Portable Raman Spectrometers | Raman Spectroscopy

Having dimensions of only  $230\text{ mm} \times 145\text{ mm} \times 55\text{ mm}$ , it can be readily used outside the office or laboratory. The USB interface allows connecting the device

miniRaman spectrometer

The total dimensions of the miniRaman spectrometer module are  $25 \times 30 \times 105\text{ mm}$  including two lasers, laser beam delivery optics, set of sample probes, Raman beam delivery optics, electronics, battery

Ethiopia Raman Spectroscopy Market (2025-2031) | Trends, Outlook

Ethiopia Raman Spectroscopy Market Overview The Raman spectroscopy market in Ethiopia is relatively niche but holds potential as the country develops its scientific research and industrial

6.13.1: Theory of Raman Spectroscopy

For Raman spectroscopy, a compound's fundamental vibrational energy is active only if the corresponding stretch or bend results in a change in

How to design a miniature Raman spectrometer

In this article, we describe the key factors that influence the overall size of a spectrometer, such as the diffraction grating groove density and detector size.

Raman Spectrometers

Our Raman spectrometers offer flexible, high-performance solutions for precise chemical identification across a wide range of applications. Whether you're in

Raman spectroscopy characterization of titania nanoparticles

A systematic study of the shift and linewidth of the Eg Raman peak at  $144\text{ cm}^{-1}$  of anatase  $\text{TiO}_2$  nanopowders, produced by a flame aerosol technique, is here presented. The analysis was

DXR3 SmartRaman Spectrometer

Measure samples directly through glass bottles, jars, and vials—clear or colored.  
Measure samples directly through plastic bags. Expandable measurement spot

### Thermo Fisher TruScan GP Handheld Raman Spectrometer

Overview The Thermo Fisher TruScan GP Handheld Raman Spectrometer is an engineered solution for rapid, non-destructive material identification at the point of need—designed specifically for

### Challenge Validation

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### Thermo Scientific iXR Raman Spectrometer Specifications

The iXR spectrometer is a highly-configurable system, with multiple dedicated sampling accessories available, capabilities for bench or rack mounting, and a compact footprint ready to be transported.

### Raman Spectroscopy Market Report: Size, Growth, Trends

Raman Spectroscopy Market size was valued at USD 433.36 Mn in 2023 and is projected to reach USD 790.31 Mn by 2030, growing at a CAGR of 7.8% from 2024-2031 The report provides key trends,

### Surface-enhanced Raman spectroscopy

Surface-enhanced Raman spectroscopy Raman spectrum of liquid 2-mercaptoethanol (below) and SERS spectrum of 2-mercaptoethanol monolayer

### Raman Spectrometer LB-13RSM | Portable Raman

Our Raman Spectrometer LB-13RSM offers 200 to 4000  $\text{cm}^{-1}$  spectral range, a

### Chemical Vapor Deposition of Two-Dimensional Magnetite

This work presents controlled synthesis of two-dimensional magnetite ( $\text{Fe}_3\text{O}_4$ ) nanosheets utilizing low cost and convenient chemical vapor deposition (CVD) technique, Raman

### Spectrometer Specs - EmVision

advanced optical designs specializing in Raman spectroscopy Spectrometer Specifications CS Spectrometer Model: CS-SPEC-785-C01-F01-AN ... HT Spectrometer Model: HT3-SPEC-785-C02

### Raman Spectrometers

Raman Spectroscopy Instrumentation Our Raman spectrometers are ruggedized miniature spectrometers configured specifically for Raman spectroscopy applications using 785nm lasers

## Thermo Fisher TruNarc Handheld Raman Spectrometer

Overview The Thermo Fisher TruNarc Handheld Raman Spectrometer is a field-deployable, non-contact analytical instrument engineered for rapid, reliable identification of controlled substances, illicit drugs,

A comprehensive study on Japan Surface-enhanced Raman spectroscopy ...

The comprehensive "Japan Surface-enhanced Raman spectroscopy (SERS) market" research report is essential for understanding current trends, consumer preferences, and competitive

Cuba Raman Spectroscopy Market (2025-2031) | Value, Trends ...

Cuba Raman Spectroscopy Market Overview Raman spectroscopy is a technique used for material characterization, including chemical composition and molecular structure analysis. In Cuba, the

Raman spectrometers

Whatever your requirements - we have the right Raman instrument for you Our portfolio of Raman spectroscopy instrumentation includes

Measurement of: Raman Spectrum

Capabilities: This Raman spectrometer can provide Raman spectrum of the sample by two different laser sources (514 nm and 785 nm) in 100 cm<sup>-1</sup> to 3500 cm<sup>-1</sup> spectral range with spectral resolution

## PINPOINTER Handheld Raman Spectrometer

Overview The PINPOINTER Handheld Raman Spectrometer is an engineered solution for field-deployable, non-destructive molecular identification based on inelastic light scattering—Raman

## Contact Us

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