



# RAMAN TECHNOLOGIES: Technologies, Markets Trends and Customers' Needs

## IS RAMAN A FIRST CHOICE FOR SPECTROSCOPY?

### REPORT OUTLINE

- Title: RAMAN TECHNOLOGIES: Technologies, Markets Trends and Customers' Needs
- 80+ slides (PDF)
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### KEY FEATURES OF THE REPORT

- Overview of Raman Technologies, their applications and products (Raman systems, and components)
- Market revenue breakdown for the Raman market by product type and application
- Market forecast of the Raman market from 2022-2031
- Presentation of dominant market trends and some new products
- Summary of funded projects, investments and M&As related to Raman.

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Since the discovery of the Raman effect in 1928, Raman techniques have seen a plethora of advances and exploitation. To date, it is still one of the most researched topics in the field of spectroscopy and its likes. It has gained popularity as a powerful analytical tool used in various scientific fields to study molecular structures, chemical composition, and physical properties of materials.

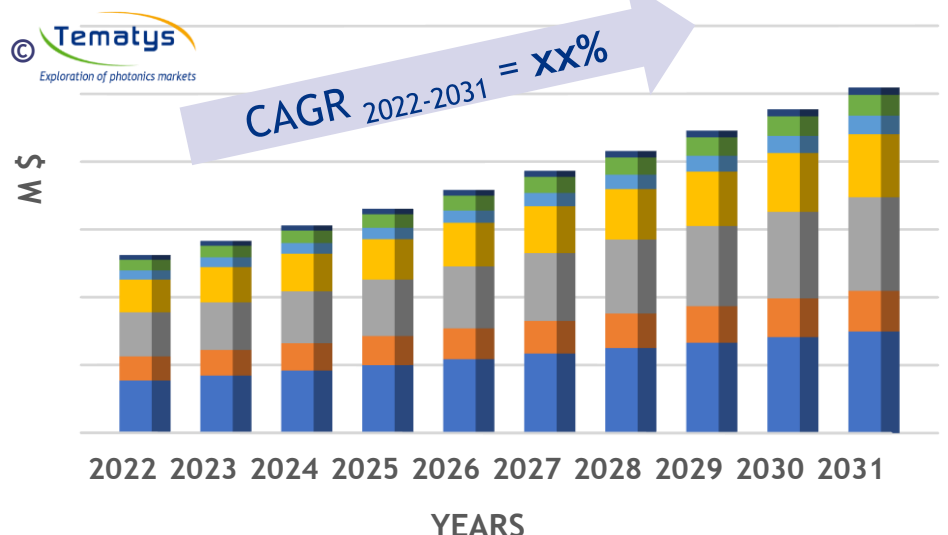
Raman spectroscopy has several advantages that make it a preferred choice in certain scenarios: non-destructive and requires almost no sample preparation, high molecular specificity, water compatibility, high spatial resolution, etc. However, Raman is not without challenges like weak signals (compared to other spectroscopic techniques like Infrared Spectroscopy etc, large fluorescence interference, not being suitable for all types of samples etc. In summary, Raman spectroscopy is a valuable tool in many scientific and

analytical applications, but its suitability as a first choice depends on the specific requirements and characteristics of the sample under investigation.

### HIGHLIGHTS

Speaking of Raman Technologies' market as an entity consists of not only components like Lasers, Detectors and Gratings but also mainly Raman Systems' as a whole. This report provides a broad view of the segments of the Raman Systems market including a breakdown based on product type: Raman Benchtop Systems, Raman Handheld Systems and Raman Process Systems. The report includes their current markets and forecasts (2022-2031), their application segments, R&D and Patents' landscape, Investments & fundraising and upcoming devices in the market. The Benchtop market, currently with the largest Raman Systems' market share was valued at \$ 260 M in 2022 with an expected CAGR of 5% in 2031.

## RAMAN SYSTEMS' MARKET AND ITS APPLICATION SEGMENTS 2022 - 2031





## WHERE'S THE RAMAN MARKET HEADING?

The Raman technologies market encompasses the equipment, instruments, and associated products used in Raman spectroscopy. This includes Raman spectrometers, Raman microscopes, Raman imaging systems, Raman probes, and related accessories. The market also includes software solutions for data analysis and interpretation.

The market for Raman technologies has been growing steadily over the years, driven by the increasing demand for advanced analytical tools in research and development, quality control, and process monitoring. The expanding applications of Raman spectroscopy in industries such as pharmaceuticals, biotechnology, and semiconductors have also contributed to market growth. Even with the various advancements, there still hasn't been any disruption or scale-up of the market - validating that the Raman market, is indeed an 'improvements' market without any big breakthroughs expected.

Key factors influencing the Raman technologies market include several technological advancements in

instrumentation, increasing automation and integration of Raman systems, and the growing need for non-destructive and label-free analysis techniques.

Additionally, the rising emphasis on stringent regulations and quality standards in industries like pharmaceuticals and food safety has fuelled the adoption of Raman spectroscopy. However, Raman is still in use when no other better method delivers the requirements.

In terms of market players, several companies are active in the Raman technologies market, including Bruker Corporation, Horiba Ltd., ThermoFisher Scientific Inc., Renishaw, and Agilent Technologies Inc. to name a few. These companies offer a range of Raman spectrometers and associated products to cater to diverse customer requirements. Currently, Raman benchtop systems make up the larger share of the Raman market, dominated by the above-mentioned players. Will these big players continue their dominance and or change their product range?

### INFORMATION SOURCES

- Tematys' in-house knowledge of Raman Technologies and its markets.
- Financial & business information on 100+ Raman Technologies' market players.
- Interviews with key companies that manufacture & assemble Raman systems & components.
- Literature research.
- Participation in international conferences and webinars in the universe of Raman.

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## RAMAN'S FUTURE POINTS TOWARDS DEEP-UV AND TIME-GATED COMPONENTS' IMPROVEMENTS

The Raman market is not going to be a game-changer in the next decade, but it definitely promises a bundle of improvements that can help keep up its position. Developments in techniques like Deep UV and Time-gated Raman are the next go-to options.

Both Raman deep UV and time-gated techniques can be used independently or in combination to overcome challenges associated with fluorescence interference, weak scattering, or complex sample environments, ultimately improving the accuracy and sensitivity of Raman spectroscopy for various applications in fields such as materials science, pharmaceuticals, biotechnology, and environmental analysis.

Raman deep UV refers to the application of deep ultraviolet (UV) light for Raman spectroscopy. Time-gated Raman spectroscopy involves the use of time-resolved techniques to selectively collect Raman signals while minimizing unwanted background fluorescence or scattered light.

With the development of new ultrafast sources. UV sources and SPADs, achieving Deep-UV and Time-gated Raman have become inevitable tools for the future of Raman spectroscopy in its diverse applications. These developments complemented with advances in detection and analysis software are set to fuel the Raman market as a standalone market for Analytics and Spectroscopy techniques.



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## RAMAN-RELATED COMPANIES MENTIONED IN THE REPORT

Abundant Robotics, Active Fiber Systems Gmbh, Advanced Nano Technologies, Agilent Technologies, Agiltron, Agrobot, Airsense Analytics, Alakai Defence Systems, Allied Scientific Pro, Andor, Anton Paar, APE, Art Photonics Gmbh, Avispectro, Avantes, BASF, Bayspec, Betin Technologies, Biophotonics Diagnostics, Bio Tools, Blue River Technology, Broadcom, Brolight, Bruker, BW & Tek, Calmar Optcom, Cambridge Raman Imaging, Capilix, Cell Tool, Ceramoptec Gmbh, Chemring Detection Systems, Chroma Tech Corporation, Cloudminds Technology, Coherent, Colvistec, Control Development, CNI Laser, Cobalt Light Systems, Cobolt Ab /Huebner Photonics, Coda Devices, Coherent Inc., Crylas, Delta Photonics, DGA, Eblana Photonics, Edinburgh Instruments, Endophotonics, Endress + Hauser, Enspectr, Environics, Enwave Optronics Inc., Excelitas, Field Bee, Field Forensics, Flir, Foster + Freeman, G & B Bondtech Corp., GMP, Hamamatsu, Headwall Photonics, Horiba Scientific, Hubei Cubic-Ruiyi Instrument Co., Ltd, Innovative Photonic Solutions Lasers, Inphotonics Inc, Inspek Solutions, International Light Technologies, Intevac, Indatech (Chauvin Arnoux), Integrated Optics, IPG Photonics, Iris, IS Instruments, Jasco Inc., Kaiser Optical Systems, Klar Scientific, Laser Detect Systems, Laserglow Technologies, Lasertechnik Berlin Gmbh, Laser Quantum, Lemnatech, Leonardo, LightCore Technologies, Light Conversion, Lightnova APS, Marqmetrix, Mcpherson Inc., Metrohm, Merck, Mettler-Toledo, Micromaterials Inc., MKS Spectraphysics, Mountain Photonics, Msquared, Nanobase, Nanophoton, Nova Ltd., N.P. Photonics, Nuctec Company Limited, Ocenahood, Ocean Insight, Ondax, Optigrate, Optiqgain, Opton Laser, Opto Knowledge, Optonyx, Optosky, OTO Photonics, Oxford Instruments, Oxxius, Pendar Technologies, Perkin Elmer, Persertech, Photon Systems, PI, PKI Electronic Intelligence, Planartech LLC., Prolite, Q-peak Incorporated, QS Lasers, Quantel Lasers, Raman Health Technologies, Raman Systems Inc., RPMC, Real-Time Analysers, Renishaw, Resolution Spectra Systems, RGB Lasersystems, Rigaku, RiverD, Sacher Lasertechnik, Saimu Corporation, Sartorius, Sciaps, Sciencetech, Scientific Systems, Semrock, Seraph Biosciences, Serstech, Sirah Lasertechnik, Sol Instruments, Solar Laser Systems, Smiths Detection, Snowy Range Instruments, Spectra Precision, Spectra Solutions, Standa, Stellarnet Inc., Surface Optics Corporation, Tec5, Technobis, Teledyne FLIR, Teledyne Princeton Instruments, Thales, Thermo Fischer, Thorlabs, Time Gate Instruments, TIPD LLC., Toptica, Tornado Spectral Systems, TSI Inc., Uniklasers, Unisensor Sensorsysteme GmbH, Unisers, Viavi Solutions, Vibronix, Voxel, Wasatch Photonics, Welldog Truly Unconventional, WiTec, Zeiss, Zolix Instruments

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