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Global Surface Enhanced Raman Spectroscopy (SERS) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Surface Enhanced Raman Spectroscopy (SERS) market size is expected to reach $ 241 million by 2032, rising at a market growth of 3.9% CAGR during the forecast period (2026-2032).

In 2024, global Surface Enhanced Raman Spectroscopy (SERS) reached approximately 2400 units, with an average global market price of around US$ 70000 per unit. Surface-Enhanced Raman Spectroscopy (SERS) is a highly sensitive analytical technique that dramatically enhances the Raman scattering signal from molecules that have been adsorbed onto specially prepared nanostructured metallic surfaces, typically made of gold or silver. The gross margin for SERS-related products is generally very high, typically ranging from 40% to 60%.

The Surface Enhanced Raman Spectroscopy (SERS) market is experiencing rapid growth driven by rising demand for highly sensitive, label-free molecular detection across biotechnology, pharmaceuticals, food safety, and environmental monitoring. Advances in nanofabrication techniques, particularly the development of reproducible and cost-effective plasmonic substrates, are expanding the practical adoption of SERS in both research and industrial settings. Increasing emphasis on point-of-care diagnostics and real-time monitoring is further accelerating the integration of SERS into portable analytical devices. Additionally, regulatory pressure to detect contaminants and pathogens with greater precision is pushing industries to adopt SERS-based solutions. Despite challenges related to substrate standardization and measurement repeatability, ongoing innovations and the growing availability of commercial SERS platforms are expected to sustain strong market expansion in the coming years. The Surface Enhanced Raman Spectroscopy (SERS) industry chain consists of several

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interconnected segments spanning materials, instrumentation, software, and end-use applications. Upstream, the industry relies on suppliers of noble metals, nanomaterials, and advanced fabrication technologies used to produce plasmonic substrates, including colloidal nanoparticles, engineered nanostructured surfaces, and lithography-based enhancement platforms. The midstream segment includes manufacturers of SERS instruments, covering optical components, lasers, spectrometers, detectors, microfluidic integration modules, and complete benchtop or portable analytical systems, together with data-processing and chemometric software. Downstream, SERS technology is deployed across a wide range of sectors such as biomedical diagnostics, pharmaceuticals, food safety testing, environmental monitoring, forensics, and industrial process control. Supporting services—including calibration, quality control, consumables supply, and application development—further reinforce the ecosystem. Overall, the SERS industry chain forms a technologically intensive and innovation-driven system that integrates nanotechnology, analytical instrumentation, and domain-specific applications to deliver high-sensitivity, real-time molecular detection solutions. The demand for Surface Enhanced Raman Spectroscopy (SERS) has been steadily increasing due to its unique ability to provide highly sensitive, label-free, and rapid molecular detection across diverse industries. In the biomedical sector, SERS is increasingly adopted for early disease diagnostics, biomarker detection, and pharmaceutical quality control, driven by the need for precise, real-time analysis. Food safety and environmental monitoring also contribute significantly to market growth, as regulatory authorities and consumers demand more accurate detection of contaminants, pathogens, and pollutants at trace levels. The commercialization of portable and handheld SERS devices is expanding opportunities in on-site testing and field applications, offering faster decision-making and reduced laboratory dependence. Despite challenges such as substrate reproducibility, data standardization, and high initial investment costs, the business potential remains robust, fueled by ongoing advancements in nanomaterials, instrumentation, and software solutions. As industries increasingly prioritize rapid, reliable, and non-destructive analytical techniques, SERS is positioned as a high-growth market segment with significant opportunities for instrument manufacturers, substrate suppliers, and application service providers. The demand for Surface Enhanced Raman Spectroscopy (SERS) is growing rapidly due to its ability to provide highly sensitive, label-free, and rapid molecular detection across multiple industries. In the biomedical and pharmaceutical sectors, SERS is increasingly used for early disease diagnostics, biomarker identification, drug quality control, and real-time monitoring, driven by the need for precise and non-destructive analytical techniques. The food safety and environmental monitoring markets also contribute significantly, as governments and regulatory agencies require accurate detection of contaminants, pathogens, and pollutants at trace levels. Commercialization of portable and handheld

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SERS devices has further expanded applications in on-site testing, field analysis, and point-of-care diagnostics, enabling faster decision-making and reduced laboratory dependency. Despite challenges such as substrate reproducibility, standardization of measurements, and initial equipment costs, the business outlook remains promising. Continuous advancements in nanomaterials, plasmonic substrates, and data analytics software are strengthening the market, positioning SERS as a high-growth segment with opportunities for instrument manufacturers, substrate suppliers, and application-focused service providers globally.

This report studies the global Surface Enhanced Raman Spectroscopy (SERS) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Surface Enhanced Raman Spectroscopy (SERS) and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Surface Enhanced Raman Spectroscopy (SERS) that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Surface Enhanced Raman Spectroscopy (SERS) total production and demand, 2021-2032, (Units)
Global Surface Enhanced Raman Spectroscopy (SERS) total production value, 2021-2032, (USD Million)
Global Surface Enhanced Raman Spectroscopy (SERS) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global Surface Enhanced Raman Spectroscopy (SERS) consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: Surface Enhanced Raman Spectroscopy (SERS) domestic production, consumption, key domestic manufacturers and share
Global Surface Enhanced Raman Spectroscopy (SERS) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)
Global Surface Enhanced Raman Spectroscopy (SERS) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global Surface Enhanced Raman Spectroscopy (SERS) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Surface Enhanced Raman Spectroscopy

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(SERS) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Horiba Jobin Yvon, Thermo, Renishaw, B&W Tek, Ocean Insight, WITec, JASCO, Real Time Analyzers? Inc, Sciaps, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Surface Enhanced Raman Spectroscopy (SERS) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Units) and average price (K USD/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Surface Enhanced Raman Spectroscopy (SERS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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Global Surface Enhanced Raman Spectroscopy (SERS) Market, Segmentation by Type:

Immersion Mode

Stand-off Mode

Global Surface Enhanced Raman Spectroscopy (SERS) Market, Segmentation by Installation Type:

Benchtop

Portable

Global Surface Enhanced Raman Spectroscopy (SERS) Market, Segmentation by Channel:

Online

Offline

Global Surface Enhanced Raman Spectroscopy (SERS) Market, Segmentation by Application:

Biology & Medicine

Chemical Industry

Food

Others

Companies Profiled:

Horiba Jobin Yvon

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Thermo

Renishaw

B&W Tek

Ocean Insight

WITec

JASCO

Real Time Analyzers? Inc

Sciaps

Key Questions Answered:

1. How big is the global Surface Enhanced Raman Spectroscopy (SERS) market?
2. What is the demand of the global Surface Enhanced Raman Spectroscopy (SERS) market?
3. What is the year over year growth of the global Surface Enhanced Raman Spectroscopy (SERS) market?
4. What is the production and production value of the global Surface Enhanced Raman Spectroscopy (SERS) market?
5. Who are the key producers in the global Surface Enhanced Raman Spectroscopy (SERS) market?
6. What are the growth factors driving the market demand?

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Contents

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6 MARKET ANALYSIS BY APPLICATION

7 COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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