

Global Portable Micro Spectrometer Market Research Report 2026(Status and Outlook)

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Abstracts

A portable micro spectrometer is a compact, lightweight spectrometer designed for on-the-go, real-time measurement of light across different wavelengths. Spectrometers are instruments that analyze the spectrum of light, typically to identify the composition or characteristics of materials. A micro spectrometer integrates the functionality of traditional spectrometers but in a smaller and more portable form, enabling its use in field applications where space and power constraints are an issue.

The global Portable Micro Spectrometer market size was estimated at USD 497.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 5.40% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Portable Micro Spectrometer market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Portable Micro Spectrometer market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding

of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Portable Micro Spectrometer market.

Global Portable Micro Spectrometer Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Hamamatsu Photonics

Horiba

Ocean Insight

Si-Ware Systems

Insion GmbH

OTO Photonics

Avantes

Viavi

ideaoptics

Chromation

Flight Technology

B&W Tek

Optosky Technology

Stellarnet

Nanolambda

Market Segmentation (by Type)

Infrared Spectrometer
Ultraviolet Spectrometer

Market Segmentation (by Application)

Farming
Environment
Smart Buildings
Medical
Automotive
Wearables
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Portable Micro Spectrometer Market
Overview of the regional outlook of the Portable Micro Spectrometer Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Portable Micro Spectrometer Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Portable Micro Spectrometer, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each

region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Portable Micro Spectrometer
- 1.2 Key Market Segments
 - 1.2.1 Portable Micro Spectrometer Segment by Type
 - 1.2.2 Portable Micro Spectrometer Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 PORTABLE MICRO SPECTROMETER MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Portable Micro Spectrometer Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Portable Micro Spectrometer Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 PORTABLE MICRO SPECTROMETER MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Portable Micro Spectrometer Product Life Cycle
- 3.3 Global Portable Micro Spectrometer Sales by Manufacturers (2020-2025)
- 3.4 Global Portable Micro Spectrometer Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Portable Micro Spectrometer Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Portable Micro Spectrometer Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Portable Micro Spectrometer Market Competitive Situation and Trends
 - 3.8.1 Portable Micro Spectrometer Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Portable Micro Spectrometer Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 PORTABLE MICRO SPECTROMETER INDUSTRY CHAIN ANALYSIS

4.1 Portable Micro Spectrometer Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF PORTABLE MICRO SPECTROMETER MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Portable Micro Spectrometer Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Portable Micro Spectrometer Market

5.7 ESG Ratings of Leading Companies

6 PORTABLE MICRO SPECTROMETER MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Portable Micro Spectrometer Sales Market Share by Type (2020-2025)

6.3 Global Portable Micro Spectrometer Market Size by Type (2020-2025)

6.4 Global Portable Micro Spectrometer Price by Type (2020-2025)

7 PORTABLE MICRO SPECTROMETER MARKET SEGMENTATION BY

APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Portable Micro Spectrometer Market Sales by Application (2020-2025)
- 7.3 Global Portable Micro Spectrometer Market Size (M USD) by Application (2020-2025)
- 7.4 Global Portable Micro Spectrometer Sales Growth Rate by Application (2020-2025)

8 PORTABLE MICRO SPECTROMETER MARKET SALES BY REGION

- 8.1 Global Portable Micro Spectrometer Sales by Region
 - 8.1.1 Global Portable Micro Spectrometer Sales by Region
 - 8.1.2 Global Portable Micro Spectrometer Sales Market Share by Region
- 8.2 Global Portable Micro Spectrometer Market Size by Region
 - 8.2.1 Global Portable Micro Spectrometer Market Size by Region
 - 8.2.2 Global Portable Micro Spectrometer Market Size by Region
- 8.3 North America
 - 8.3.1 North America Portable Micro Spectrometer Sales by Country
 - 8.3.2 North America Portable Micro Spectrometer Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Portable Micro Spectrometer Sales by Country
 - 8.4.2 Europe Portable Micro Spectrometer Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Portable Micro Spectrometer Sales by Region
 - 8.5.2 Asia Pacific Portable Micro Spectrometer Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America

- 8.6.1 South America Portable Micro Spectrometer Sales by Country
- 8.6.2 South America Portable Micro Spectrometer Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Portable Micro Spectrometer Sales by Region
 - 8.7.2 Middle East and Africa Portable Micro Spectrometer Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 PORTABLE MICRO SPECTROMETER MARKET PRODUCTION BY REGION

- 9.1 Global Production of Portable Micro Spectrometer by Region(2020-2025)
- 9.2 Global Portable Micro Spectrometer Revenue Market Share by Region (2020-2025)
- 9.3 Global Portable Micro Spectrometer Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Portable Micro Spectrometer Production
 - 9.4.1 North America Portable Micro Spectrometer Production Growth Rate (2020-2025)
 - 9.4.2 North America Portable Micro Spectrometer Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Portable Micro Spectrometer Production
 - 9.5.1 Europe Portable Micro Spectrometer Production Growth Rate (2020-2025)
 - 9.5.2 Europe Portable Micro Spectrometer Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Portable Micro Spectrometer Production (2020-2025)
 - 9.6.1 Japan Portable Micro Spectrometer Production Growth Rate (2020-2025)
 - 9.6.2 Japan Portable Micro Spectrometer Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Portable Micro Spectrometer Production (2020-2025)
 - 9.7.1 China Portable Micro Spectrometer Production Growth Rate (2020-2025)
 - 9.7.2 China Portable Micro Spectrometer Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Hamamatsu Photonics

10.1.1 Hamamatsu Photonics Basic Information

10.1.2 Hamamatsu Photonics Portable Micro Spectrometer Product Overview

10.1.3 Hamamatsu Photonics Portable Micro Spectrometer Product Market

Performance

10.1.4 Hamamatsu Photonics Business Overview

10.1.5 Hamamatsu Photonics SWOT Analysis

10.1.6 Hamamatsu Photonics Recent Developments

10.2 Horiba

10.2.1 Horiba Basic Information

10.2.2 Horiba Portable Micro Spectrometer Product Overview

10.2.3 Horiba Portable Micro Spectrometer Product Market Performance

10.2.4 Horiba Business Overview

10.2.5 Horiba SWOT Analysis

10.2.6 Horiba Recent Developments

10.3 Ocean Insight

10.3.1 Ocean Insight Basic Information

10.3.2 Ocean Insight Portable Micro Spectrometer Product Overview

10.3.3 Ocean Insight Portable Micro Spectrometer Product Market Performance

10.3.4 Ocean Insight Business Overview

10.3.5 Ocean Insight SWOT Analysis

10.3.6 Ocean Insight Recent Developments

10.4 Si-Ware Systems

10.4.1 Si-Ware Systems Basic Information

10.4.2 Si-Ware Systems Portable Micro Spectrometer Product Overview

10.4.3 Si-Ware Systems Portable Micro Spectrometer Product Market Performance

10.4.4 Si-Ware Systems Business Overview

10.4.5 Si-Ware Systems Recent Developments

10.5 InSION GmbH

10.5.1 InSION GmbH Basic Information

10.5.2 InSION GmbH Portable Micro Spectrometer Product Overview

10.5.3 InSION GmbH Portable Micro Spectrometer Product Market Performance

10.5.4 InSION GmbH Business Overview

10.5.5 InSION GmbH Recent Developments

10.6 OTO Photonics

10.6.1 OTO Photonics Basic Information

10.6.2 OTO Photonics Portable Micro Spectrometer Product Overview

10.6.3 OTO Photonics Portable Micro Spectrometer Product Market Performance

- 10.6.4 OTO Photonics Business Overview
- 10.6.5 OTO Photonics Recent Developments
- 10.7 Avantes
 - 10.7.1 Avantes Basic Information
 - 10.7.2 Avantes Portable Micro Spectrometer Product Overview
 - 10.7.3 Avantes Portable Micro Spectrometer Product Market Performance
 - 10.7.4 Avantes Business Overview
 - 10.7.5 Avantes Recent Developments
- 10.8 Viavi
 - 10.8.1 Viavi Basic Information
 - 10.8.2 Viavi Portable Micro Spectrometer Product Overview
 - 10.8.3 Viavi Portable Micro Spectrometer Product Market Performance
 - 10.8.4 Viavi Business Overview
 - 10.8.5 Viavi Recent Developments
- 10.9 ideaoptics
 - 10.9.1 ideaoptics Basic Information
 - 10.9.2 ideaoptics Portable Micro Spectrometer Product Overview
 - 10.9.3 ideaoptics Portable Micro Spectrometer Product Market Performance
 - 10.9.4 ideaoptics Business Overview
 - 10.9.5 ideaoptics Recent Developments
- 10.10 Chromation
 - 10.10.1 Chromation Basic Information
 - 10.10.2 Chromation Portable Micro Spectrometer Product Overview
 - 10.10.3 Chromation Portable Micro Spectrometer Product Market Performance
 - 10.10.4 Chromation Business Overview
 - 10.10.5 Chromation Recent Developments
- 10.11 Flight Technology
 - 10.11.1 Flight Technology Basic Information
 - 10.11.2 Flight Technology Portable Micro Spectrometer Product Overview
 - 10.11.3 Flight Technology Portable Micro Spectrometer Product Market Performance
 - 10.11.4 Flight Technology Business Overview
 - 10.11.5 Flight Technology Recent Developments
- 10.12 BandW Tek
 - 10.12.1 BandW Tek Basic Information
 - 10.12.2 BandW Tek Portable Micro Spectrometer Product Overview
 - 10.12.3 BandW Tek Portable Micro Spectrometer Product Market Performance
 - 10.12.4 BandW Tek Business Overview
 - 10.12.5 BandW Tek Recent Developments
- 10.13 Optosky Technology

- 10.13.1 Optosky Technology Basic Information
- 10.13.2 Optosky Technology Portable Micro Spectrometer Product Overview
- 10.13.3 Optosky Technology Portable Micro Spectrometer Product Market Performance
- 10.13.4 Optosky Technology Business Overview
- 10.13.5 Optosky Technology Recent Developments
- 10.14 Stellarnet
 - 10.14.1 Stellarnet Basic Information
 - 10.14.2 Stellarnet Portable Micro Spectrometer Product Overview
 - 10.14.3 Stellarnet Portable Micro Spectrometer Product Market Performance
 - 10.14.4 Stellarnet Business Overview
 - 10.14.5 Stellarnet Recent Developments
- 10.15 Nanolambda
 - 10.15.1 Nanolambda Basic Information
 - 10.15.2 Nanolambda Portable Micro Spectrometer Product Overview
 - 10.15.3 Nanolambda Portable Micro Spectrometer Product Market Performance
 - 10.15.4 Nanolambda Business Overview
 - 10.15.5 Nanolambda Recent Developments

11 PORTABLE MICRO SPECTROMETER MARKET FORECAST BY REGION

- 11.1 Global Portable Micro Spectrometer Market Size Forecast
- 11.2 Global Portable Micro Spectrometer Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Portable Micro Spectrometer Market Size Forecast by Country
 - 11.2.3 Asia Pacific Portable Micro Spectrometer Market Size Forecast by Region
 - 11.2.4 South America Portable Micro Spectrometer Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Portable Micro Spectrometer by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 12.1 Global Portable Micro Spectrometer Market Forecast by Type (2026-2035)
 - 12.1.1 Global Forecasted Sales of Portable Micro Spectrometer by Type (2026-2035)
 - 12.1.2 Global Portable Micro Spectrometer Market Size Forecast by Type (2026-2035)
 - 12.1.3 Global Forecasted Price of Portable Micro Spectrometer by Type (2026-2035)
- 12.2 Global Portable Micro Spectrometer Market Forecast by Application (2026-2035)
 - 12.2.1 Global Portable Micro Spectrometer Sales (K Units) Forecast by Application
 - 12.2.2 Global Portable Micro Spectrometer Market Size (M USD) Forecast by

Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Portable Micro Spectrometer Market Size by Type (M USD)

Table 4. Global Portable Micro Spectrometer Market Size by Application

Table 5. Portable Micro Spectrometer Market Size Comparison by Region (M USD)

Table 6. Global Portable Micro Spectrometer Sales (K Units) by Manufacturers (2020-2025)

Table 7. Global Portable Micro Spectrometer Sales Market Share by Manufacturers (2020-2025)

Table 8. Global Portable Micro Spectrometer Revenue (M USD) by Manufacturers (2020-2025)

Table 9. Global Portable Micro Spectrometer Revenue Share by Manufacturers (2020-2025)

Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Portable Micro Spectrometer as of 2025)

Table 11. Global Market Portable Micro Spectrometer Average Price (USD/Unit) of Key Manufacturers (2020-2025)

Table 12. Manufacturers? Manufacturing Sites, Areas Served

Table 13. Manufacturers? Product Type

Table 14. Global Portable Micro Spectrometer Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 15. Mergers & Acquisitions, Expansion Plans

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Portable Micro Spectrometer Market Challenges

Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026

Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027

Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026

Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries

Table 26. Global Portable Micro Spectrometer Sales by Type (K Units)

Table 27. Global Portable Micro Spectrometer Market Size by Type (M USD)

- Table 28. Global Portable Micro Spectrometer Sales (K Units) by Type (2020-2025)
- Table 29. Global Portable Micro Spectrometer Sales Market Share by Type (2020-2025)
- Table 30. Global Portable Micro Spectrometer Market Size (M USD) by Type (2020-2025)
- Table 31. Global Portable Micro Spectrometer Market Share by Type (2020-2025)
- Table 32. Global Portable Micro Spectrometer Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Portable Micro Spectrometer Sales (K Units) by Application
- Table 34. Global Portable Micro Spectrometer Market Size by Application
- Table 35. Global Portable Micro Spectrometer Sales by Application (2020-2025) & (K Units)
- Table 36. Global Portable Micro Spectrometer Sales Market Share by Application (2020-2025)
- Table 37. Global Portable Micro Spectrometer Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Portable Micro Spectrometer Market Share by Application (2020-2025)
- Table 39. Global Portable Micro Spectrometer Sales Growth Rate by Application (2020-2025)
- Table 40. Global Portable Micro Spectrometer Sales by Region (2020-2025) & (K Units)
- Table 41. Global Portable Micro Spectrometer Sales Market Share by Region (2020-2025)
- Table 42. Global Portable Micro Spectrometer Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Portable Micro Spectrometer Market Size by Region (2020-2025)
- Table 44. North America Portable Micro Spectrometer Sales by Country (2020-2025) & (K Units)
- Table 45. North America Portable Micro Spectrometer Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Portable Micro Spectrometer Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Portable Micro Spectrometer Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Portable Micro Spectrometer Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Portable Micro Spectrometer Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Portable Micro Spectrometer Sales by Country (2020-2025) & (K Units)
- Table 51. South America Portable Micro Spectrometer Market Size by Country (2020-2025) & (M USD)

- Table 52. Middle East and Africa Portable Micro Spectrometer Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Portable Micro Spectrometer Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Portable Micro Spectrometer Production (K Units) by Region(2020-2025)
- Table 55. Global Portable Micro Spectrometer Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Portable Micro Spectrometer Revenue Market Share by Region (2020-2025)
- Table 57. Global Portable Micro Spectrometer Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Portable Micro Spectrometer Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Portable Micro Spectrometer Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Portable Micro Spectrometer Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Portable Micro Spectrometer Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. Hamamatsu Photonics Basic Information
- Table 63. Hamamatsu Photonics Portable Micro Spectrometer Product Overview
- Table 64. Hamamatsu Photonics Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. Hamamatsu Photonics Business Overview
- Table 66. Hamamatsu Photonics SWOT Analysis
- Table 67. Hamamatsu Photonics Recent Developments
- Table 68. Horiba Basic Information
- Table 69. Horiba Portable Micro Spectrometer Product Overview
- Table 70. Horiba Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Horiba Business Overview
- Table 72. Horiba SWOT Analysis
- Table 73. Horiba Recent Developments
- Table 74. Ocean Insight Basic Information
- Table 75. Ocean Insight Portable Micro Spectrometer Product Overview
- Table 76. Ocean Insight Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. Ocean Insight Business Overview

- Table 78. Ocean Insight SWOT Analysis
- Table 79. Ocean Insight Recent Developments
- Table 80. Si-Ware Systems Basic Information
- Table 81. Si-Ware Systems Portable Micro Spectrometer Product Overview
- Table 82. Si-Ware Systems Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 83. Si-Ware Systems Business Overview
- Table 84. Si-Ware Systems Recent Developments
- Table 85. InSION GmbH Basic Information
- Table 86. InSION GmbH Portable Micro Spectrometer Product Overview
- Table 87. InSION GmbH Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. InSION GmbH Business Overview
- Table 89. InSION GmbH Recent Developments
- Table 90. OTO Photonics Basic Information
- Table 91. OTO Photonics Portable Micro Spectrometer Product Overview
- Table 92. OTO Photonics Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. OTO Photonics Business Overview
- Table 94. OTO Photonics Recent Developments
- Table 95. Avantes Basic Information
- Table 96. Avantes Portable Micro Spectrometer Product Overview
- Table 97. Avantes Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Avantes Business Overview
- Table 99. Avantes Recent Developments
- Table 100. Viavi Basic Information
- Table 101. Viavi Portable Micro Spectrometer Product Overview
- Table 102. Viavi Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Viavi Business Overview
- Table 104. Viavi Recent Developments
- Table 105. ideaoptics Basic Information
- Table 106. ideaoptics Portable Micro Spectrometer Product Overview
- Table 107. ideaoptics Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. ideaoptics Business Overview
- Table 109. ideaoptics Recent Developments
- Table 110. Chromation Basic Information

- Table 111. Chromation Portable Micro Spectrometer Product Overview
- Table 112. Chromation Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. Chromation Business Overview
- Table 114. Chromation Recent Developments
- Table 115. Flight Technology Basic Information
- Table 116. Flight Technology Portable Micro Spectrometer Product Overview
- Table 117. Flight Technology Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Flight Technology Business Overview
- Table 119. Flight Technology Recent Developments
- Table 120. BandW Tek Basic Information
- Table 121. BandW Tek Portable Micro Spectrometer Product Overview
- Table 122. BandW Tek Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. BandW Tek Business Overview
- Table 124. BandW Tek Recent Developments
- Table 125. Optosky Technology Basic Information
- Table 126. Optosky Technology Portable Micro Spectrometer Product Overview
- Table 127. Optosky Technology Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Optosky Technology Business Overview
- Table 129. Optosky Technology Recent Developments
- Table 130. Stellarnet Basic Information
- Table 131. Stellarnet Portable Micro Spectrometer Product Overview
- Table 132. Stellarnet Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. Stellarnet Business Overview
- Table 134. Stellarnet Recent Developments
- Table 135. Nanolambda Basic Information
- Table 136. Nanolambda Portable Micro Spectrometer Product Overview
- Table 137. Nanolambda Portable Micro Spectrometer Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 138. Nanolambda Business Overview
- Table 139. Nanolambda Recent Developments
- Table 140. Global Portable Micro Spectrometer Sales Forecast by Region (2026-2035) & (K Units)
- Table 141. Global Portable Micro Spectrometer Market Size Forecast by Region (2026-2035) & (M USD)

Table 142. North America Portable Micro Spectrometer Sales Forecast by Country (2026-2035) & (K Units)

Table 143. North America Portable Micro Spectrometer Market Size Forecast by Country (2026-2035) & (M USD)

Table 144. Europe Portable Micro Spectrometer Sales Forecast by Country (2026-2035) & (K Units)

Table 145. Europe Portable Micro Spectrometer Market Size Forecast by Country (2026-2035) & (M USD)

Table 146. Asia Pacific Portable Micro Spectrometer Sales Forecast by Region (2026-2035) & (K Units)

Table 147. Asia Pacific Portable Micro Spectrometer Market Size Forecast by Region (2026-2035) & (M USD)

Table 148. South America Portable Micro Spectrometer Sales Forecast by Country (2026-2035) & (K Units)

Table 149. South America Portable Micro Spectrometer Market Size Forecast by Country (2026-2035) & (M USD)

Table 150. Middle East and Africa Portable Micro Spectrometer Sales Forecast by Country (2026-2035) & (Units)

Table 151. Middle East and Africa Portable Micro Spectrometer Market Size Forecast by Country (2026-2035) & (M USD)

Table 152. Global Portable Micro Spectrometer Sales Forecast by Type (2026-2035) & (K Units)

Table 153. Global Portable Micro Spectrometer Market Size Forecast by Type (2026-2035) & (M USD)

Table 154. Global Portable Micro Spectrometer Price Forecast by Type (2026-2035) & (USD/Unit)

Table 155. Global Portable Micro Spectrometer Sales (K Units) Forecast by Application (2026-2035)

Table 156. Global Portable Micro Spectrometer Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Portable Micro Spectrometer
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Portable Micro Spectrometer Market Size (M USD), 2025-2035
- Figure 5. Global Portable Micro Spectrometer Market Size (M USD) (2020-2035)
- Figure 6. Global Portable Micro Spectrometer Sales (K Units) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Portable Micro Spectrometer Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Portable Micro Spectrometer Product Life Cycle
- Figure 13. Portable Micro Spectrometer Sales Share by Manufacturers in 2025
- Figure 14. Global Portable Micro Spectrometer Revenue Share by Manufacturers in 2025
- Figure 15. Portable Micro Spectrometer Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Portable Micro Spectrometer Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Portable Micro Spectrometer Revenue in 2025
- Figure 18. Industry Chain Map of Portable Micro Spectrometer
- Figure 19. Global Portable Micro Spectrometer Market PEST Analysis
- Figure 20. Global Portable Micro Spectrometer Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Portable Micro Spectrometer Market Share by Type
- Figure 27. Sales Market Share of Portable Micro Spectrometer by Type (2020-2025)
- Figure 28. Sales Market Share of Portable Micro Spectrometer by Type in 2025
- Figure 29. Market Share of Portable Micro Spectrometer by Type (2020-2025)
- Figure 30. Market Share of Portable Micro Spectrometer by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Portable Micro Spectrometer Market Share by Application
- Figure 33. Global Portable Micro Spectrometer Sales Market Share by Application (2020-2025)
- Figure 34. Global Portable Micro Spectrometer Sales Market Share by Application in 2025
- Figure 35. Global Portable Micro Spectrometer Market Share by Application (2020-2025)
- Figure 36. Global Portable Micro Spectrometer Market Share by Application in 2025
- Figure 37. Global Portable Micro Spectrometer Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Portable Micro Spectrometer Sales Market Share by Region (2020-2025)
- Figure 39. Global Portable Micro Spectrometer Market Size by Region (2020-2025)
- Figure 40. North America Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 41. North America Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 42. North America Portable Micro Spectrometer Sales Market Share by Country in 2024
- Figure 43. North America Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Portable Micro Spectrometer Market Size by Country in 2024
- Figure 45. U.S. Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 46. U.S. Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Portable Micro Spectrometer Sales (K Units) and Growth Rate (2020-2025)
- Figure 48. Canada Portable Micro Spectrometer Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Portable Micro Spectrometer Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Portable Micro Spectrometer Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)
- Figure 52. Europe Portable Micro Spectrometer Sales Market Share by Country in 2024
- Figure 53. Europe Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Portable Micro Spectrometer Market Size by Country in 2024

Figure 55. Germany Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Portable Micro Spectrometer Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Portable Micro Spectrometer Sales Market Share by Region in 2024

Figure 67. Asia Pacific Portable Micro Spectrometer Market Size by Region in 2024

Figure 68. China Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Portable Micro Spectrometer Sales and Growth Rate (K Units)

Figure 79. South America Portable Micro Spectrometer Sales Market Share by Country in 2024

Figure 80. South America Portable Micro Spectrometer Market Size and Growth Rate (M USD)

Figure 81. South America Portable Micro Spectrometer Market Size by Country in 2024

Figure 82. Brazil Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Portable Micro Spectrometer Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Portable Micro Spectrometer Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Portable Micro Spectrometer Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Portable Micro Spectrometer Market Size by Region in 2024

Figure 92. Saudi Arabia Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Portable Micro Spectrometer Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Portable Micro Spectrometer Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Portable Micro Spectrometer Production Market Share by Region (2020-2025)

Figure 103. North America Portable Micro Spectrometer Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Portable Micro Spectrometer Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Portable Micro Spectrometer Production (K Units) Growth Rate (2020-2025)

Figure 106. China Portable Micro Spectrometer Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Portable Micro Spectrometer Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Portable Micro Spectrometer Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Portable Micro Spectrometer Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Portable Micro Spectrometer Market Share Forecast by Type (2026-2035)

Figure 111. Global Portable Micro Spectrometer Sales Forecast by Application (2026-2035)

Figure 112. Global Portable Micro Spectrometer Market Share Forecast by Application (2026-2035)

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