

Global Handheld Field Spectrometer Market Growth 2026-2032

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Abstracts

The global Handheld Field Spectrometer market size is predicted to grow from US\$ 34.24 million in 2025 to US\$ 57.51 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

Handheld Field Spectrometers are compact field spectroradiometers used to measure spectral reflectance, radiance, or transmittance of ground objects under outdoor conditions. They are lighter and more portable than full-size field spectrometers, and are mainly used for vegetation monitoring, soil analysis, mineral identification, remote sensing validation, and environmental research. These instruments typically cover visible and near-infrared bands, while some higher-end models extend into short-wave infrared ranges. The industrial chain of Handheld Field Spectrometers includes upstream optical components, detectors, diffraction gratings, fiber optics, calibration panels, batteries, electronic modules, and spectral analysis software. The midstream consists of scientific instrument manufacturers that design, assemble, calibrate, and validate handheld spectrometer systems. Downstream applications include remote sensing institutes, universities, agricultural research organizations, environmental monitoring agencies, forestry departments, and geological survey units. Supporting services include field calibration, software upgrades, spectral library development, maintenance, and user training. In 2025, global Handheld Field Spectrometer production reached approximately 1,458 units, with an average global market price of around US\$24,000 per unit. The gross profit margin of major companies in the industry is between 35%-58%. In 2025, the global production capacity of Handheld Field Spectrometers was approximately 1,944 units.

The Handheld Field Spectrometer market is growing steadily due to increasing demand for high-precision field data in agriculture, environmental monitoring, and geospatial

analysis. The rise of precision agriculture is a key driver, as farmers and agronomists seek real-time insights into crop health, soil conditions, and nutrient status. Additionally, these instruments play a critical role in calibrating satellite and drone-based remote sensing systems. Technological advancements in miniaturization, spectral resolution, and data processing are improving device performance and usability. Integration with mobile platforms and cloud-based analytics is further expanding application possibilities. However, the market remains relatively specialized, with high equipment costs limiting widespread adoption. Despite this, increasing demand for data-driven decision-making and sustainable resource management is expected to support long-term growth.

LP Information, Inc. (LPI) ' newest research report, the "Handheld Field Spectrometer Industry Forecast" looks at past sales and reviews total world Handheld Field Spectrometer sales in 2025, providing a comprehensive analysis by region and market sector of projected Handheld Field Spectrometer sales for 2026 through 2032. With Handheld Field Spectrometer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Handheld Field Spectrometer industry.

This Insight Report provides a comprehensive analysis of the global Handheld Field Spectrometer landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Handheld Field Spectrometer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Handheld Field Spectrometer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Handheld Field Spectrometer and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Handheld Field Spectrometer.

This report presents a comprehensive overview, market shares, and growth opportunities of Handheld Field Spectrometer market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Narrow-field Handheld Field Spectrometer

Medium-field Handheld Field Spectrometer

Wide-field Handheld Field Spectrometer

Interchangeable FOV Handheld Field Spectrometer

Segmentation by Spectral Range:

Visible-NIR Spectrometer

Full-Range (VNIR+SWIR) Spectrometer

Shortwave Infrared Spectrometer

Segmentation by Resolution:

High-Resolution Field Spectrometer

Ultra-High Resolution Spectrometer

Standard Resolution Spectrometer

Segmentation by Application:

Remote Sensing Measurement

Crop Monitoring

Forest Research

Marine Research

Aquaculture

Scientific Research and Teaching

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Optosky (Xiamen) Technology Inc.

CHNSpec technology

Lisen Optics (Shenzhen) Co., Ltd.

Sichuan Shuangli Hepu Technology Co., Ltd.

Shanghai Oceanhood opto-electronics Tech Co., Ltd.

Malvern Panalytical Ltd

Apogee Instruments, Inc.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Handheld Field Spectrometer market?
What factors are driving Handheld Field Spectrometer market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Handheld Field Spectrometer market opportunities vary by end market size?
How does Handheld Field Spectrometer break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Handheld Field Spectrometer Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Handheld Field Spectrometer by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Handheld Field Spectrometer by Country/Region, 2021, 2025 & 2032
- 2.2 Handheld Field Spectrometer Segment by Type
 - 2.2.1 Narrow-field Handheld Field Spectrometer
 - 2.2.2 Medium-field Handheld Field Spectrometer
 - 2.2.3 Wide-field Handheld Field Spectrometer
 - 2.2.4 Interchangeable FOV Handheld Field Spectrometer
 - 2.2.5 Handheld Field Spectrometer Sales by Type
 - 2.2.5.1 Global Handheld Field Spectrometer Sales Market Share by Type (2021-2026)
 - 2.2.5.2 Global Handheld Field Spectrometer Revenue and Market Share by Type (2021-2026)
 - 2.2.5.3 Global Handheld Field Spectrometer Sale Price by Type (2021-2026)
- 2.3 Handheld Field Spectrometer Segment by Spectral Range
 - 2.3.1 Visible-NIR Spectrometer
 - 2.3.2 Full-Range (VNIR+SWIR) Spectrometer
 - 2.3.3 Shortwave Infrared Spectrometer
 - 2.3.4 Handheld Field Spectrometer Sales by Spectral Range
 - 2.3.4.1 Global Handheld Field Spectrometer Sales Market Share by Spectral Range (2021-2026)

2.3.4.2 Global Handheld Field Spectrometer Revenue and Market Share by Spectral Range (2021-2026)

2.3.4.3 Global Handheld Field Spectrometer Sale Price by Spectral Range (2021-2026)

2.4 Handheld Field Spectrometer Segment by Resolution

2.4.1 High-Resolution Field Spectrometer

2.4.2 Ultra-High Resolution Spectrometer

2.4.3 Standard Resolution Spectrometer

2.4.4 Handheld Field Spectrometer Sales by Resolution

2.4.4.1 Global Handheld Field Spectrometer Sales Market Share by Resolution (2021-2026)

2.4.4.2 Global Handheld Field Spectrometer Revenue and Market Share by Resolution (2021-2026)

2.4.4.3 Global Handheld Field Spectrometer Sale Price by Resolution (2021-2026)

2.5 Handheld Field Spectrometer Segment by Application

2.5.1 Remote Sensing Measurement

2.5.2 Crop Monitoring

2.5.3 Forest Research

2.5.4 Marine Research

2.5.5 Aquaculture

2.5.6 Scientific Research and Teaching

2.5.7 Others

2.5.8 Handheld Field Spectrometer Sales by Application

2.5.8.1 Global Handheld Field Spectrometer Sale Market Share by Application (2021-2026)

2.5.8.2 Global Handheld Field Spectrometer Revenue and Market Share by Application (2021-2026)

2.5.8.3 Global Handheld Field Spectrometer Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Handheld Field Spectrometer Breakdown Data by Company

3.1.1 Global Handheld Field Spectrometer Annual Sales by Company (2021-2026)

3.1.2 Global Handheld Field Spectrometer Sales Market Share by Company (2021-2026)

3.2 Global Handheld Field Spectrometer Annual Revenue by Company (2021-2026)

3.2.1 Global Handheld Field Spectrometer Revenue by Company (2021-2026)

3.2.2 Global Handheld Field Spectrometer Revenue Market Share by Company (2021-2026)

- 3.3 Global Handheld Field Spectrometer Sale Price by Company
- 3.4 Key Manufacturers Handheld Field Spectrometer Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Handheld Field Spectrometer Product Location Distribution
 - 3.4.2 Players Handheld Field Spectrometer Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR HANDHELD FIELD SPECTROMETER BY GEOGRAPHIC REGION

- 4.1 World Historic Handheld Field Spectrometer Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Handheld Field Spectrometer Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Handheld Field Spectrometer Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Handheld Field Spectrometer Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Handheld Field Spectrometer Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Handheld Field Spectrometer Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Handheld Field Spectrometer Sales Growth
- 4.4 APAC Handheld Field Spectrometer Sales Growth
- 4.5 Europe Handheld Field Spectrometer Sales Growth
- 4.6 Middle East & Africa Handheld Field Spectrometer Sales Growth

5 AMERICAS

- 5.1 Americas Handheld Field Spectrometer Sales by Country
 - 5.1.1 Americas Handheld Field Spectrometer Sales by Country (2021-2026)
 - 5.1.2 Americas Handheld Field Spectrometer Revenue by Country (2021-2026)
- 5.2 Americas Handheld Field Spectrometer Sales by Type (2021-2026)
- 5.3 Americas Handheld Field Spectrometer Sales by Application (2021-2026)
- 5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Handheld Field Spectrometer Sales by Region

6.1.1 APAC Handheld Field Spectrometer Sales by Region (2021-2026)

6.1.2 APAC Handheld Field Spectrometer Revenue by Region (2021-2026)

6.2 APAC Handheld Field Spectrometer Sales by Type (2021-2026)

6.3 APAC Handheld Field Spectrometer Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Handheld Field Spectrometer by Country

7.1.1 Europe Handheld Field Spectrometer Sales by Country (2021-2026)

7.1.2 Europe Handheld Field Spectrometer Revenue by Country (2021-2026)

7.2 Europe Handheld Field Spectrometer Sales by Type (2021-2026)

7.3 Europe Handheld Field Spectrometer Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Handheld Field Spectrometer by Country

8.1.1 Middle East & Africa Handheld Field Spectrometer Sales by Country (2021-2026)

8.1.2 Middle East & Africa Handheld Field Spectrometer Revenue by Country
(2021-2026)

8.2 Middle East & Africa Handheld Field Spectrometer Sales by Type (2021-2026)

8.3 Middle East & Africa Handheld Field Spectrometer Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Handheld Field Spectrometer

10.3 Manufacturing Process Analysis of Handheld Field Spectrometer

10.4 Industry Chain Structure of Handheld Field Spectrometer

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Handheld Field Spectrometer Distributors

11.3 Handheld Field Spectrometer Customer

12 WORLD FORECAST REVIEW FOR HANDHELD FIELD SPECTROMETER BY GEOGRAPHIC REGION

12.1 Global Handheld Field Spectrometer Market Size Forecast by Region

12.1.1 Global Handheld Field Spectrometer Forecast by Region (2027-2032)

12.1.2 Global Handheld Field Spectrometer Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Handheld Field Spectrometer Forecast by Type (2027-2032)

12.7 Global Handheld Field Spectrometer Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Optosky (Xiamen) Technology Inc.

13.1.1 Optosky (Xiamen) Technology Inc. Company Information

13.1.2 Optosky (Xiamen) Technology Inc. Handheld Field Spectrometer Product Portfolios and Specifications

13.1.3 Optosky (Xiamen) Technology Inc. Handheld Field Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Optosky (Xiamen) Technology Inc. Main Business Overview

13.1.5 Optosky (Xiamen) Technology Inc. Latest Developments

13.2 CHNSpec technology

13.2.1 CHNSpec technology Company Information

13.2.2 CHNSpec technology Handheld Field Spectrometer Product Portfolios and Specifications

13.2.3 CHNSpec technology Handheld Field Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 CHNSpec technology Main Business Overview

13.2.5 CHNSpec technology Latest Developments

13.3 Lisen Optics (Shenzhen) Co., Ltd.

13.3.1 Lisen Optics (Shenzhen) Co., Ltd. Company Information

13.3.2 Lisen Optics (Shenzhen) Co., Ltd. Handheld Field Spectrometer Product Portfolios and Specifications

13.3.3 Lisen Optics (Shenzhen) Co., Ltd. Handheld Field Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Lisen Optics (Shenzhen) Co., Ltd. Main Business Overview

13.3.5 Lisen Optics (Shenzhen) Co., Ltd. Latest Developments

13.4 Sichuan Shuangli Hepu Technology Co., Ltd.

13.4.1 Sichuan Shuangli Hepu Technology Co., Ltd. Company Information

13.4.2 Sichuan Shuangli Hepu Technology Co., Ltd. Handheld Field Spectrometer Product Portfolios and Specifications

13.4.3 Sichuan Shuangli Hepu Technology Co., Ltd. Handheld Field Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Sichuan Shuangli Hepu Technology Co., Ltd. Main Business Overview

13.4.5 Sichuan Shuangli Hepu Technology Co., Ltd. Latest Developments

13.5 Shanghai Oceanhood opto-electronics Tech Co., Ltd.

13.5.1 Shanghai Oceanhood opto-electronics Tech Co., Ltd. Company Information

- 13.5.2 Shanghai Oceanhood opto-electronics Tech Co., Ltd. Handheld Field Spectrometer Product Portfolios and Specifications
- 13.5.3 Shanghai Oceanhood opto-electronics Tech Co., Ltd. Handheld Field Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 Shanghai Oceanhood opto-electronics Tech Co., Ltd. Main Business Overview
- 13.5.5 Shanghai Oceanhood opto-electronics Tech Co., Ltd. Latest Developments
- 13.6 Malvern Panalytical Ltd
 - 13.6.1 Malvern Panalytical Ltd Company Information
 - 13.6.2 Malvern Panalytical Ltd Handheld Field Spectrometer Product Portfolios and Specifications
 - 13.6.3 Malvern Panalytical Ltd Handheld Field Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Malvern Panalytical Ltd Main Business Overview
 - 13.6.5 Malvern Panalytical Ltd Latest Developments
- 13.7 Apogee Instruments, Inc.
 - 13.7.1 Apogee Instruments, Inc. Company Information
 - 13.7.2 Apogee Instruments, Inc. Handheld Field Spectrometer Product Portfolios and Specifications
 - 13.7.3 Apogee Instruments, Inc. Handheld Field Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Apogee Instruments, Inc. Main Business Overview
 - 13.7.5 Apogee Instruments, Inc. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Handheld Field Spectrometer Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Handheld Field Spectrometer Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Narrow-field Handheld Field Spectrometer

Table 4. Major Players of Medium-field Handheld Field Spectrometer

Table 5. Major Players of Wide-field Handheld Field Spectrometer

Table 6. Major Players of Interchangeable FOV Handheld Field Spectrometer

Table 7. Global Handheld Field Spectrometer Sales by Type (2021-2026) & (Units)

Table 8. Global Handheld Field Spectrometer Sales Market Share by Type (2021-2026)

Table 9. Global Handheld Field Spectrometer Revenue by Type (2021-2026) & (\$ million)

Table 10. Global Handheld Field Spectrometer Revenue Market Share by Type (2021-2026)

Table 11. Global Handheld Field Spectrometer Sale Price by Type (2021-2026) & (US\$/Unit)

Table 12. Major Players of Visible-NIR Spectrometer

Table 13. Major Players of Full-Range (VNIR+SWIR) Spectrometer

Table 14. Major Players of Shortwave Infrared Spectrometer

Table 15. Global Handheld Field Spectrometer Sales by Spectral Range (2021-2026) & (Units)

Table 16. Global Handheld Field Spectrometer Sales Market Share by Spectral Range (2021-2026)

Table 17. Global Handheld Field Spectrometer Revenue by Spectral Range (2021-2026) & (\$ million)

Table 18. Global Handheld Field Spectrometer Revenue Market Share by Spectral Range (2021-2026)

Table 19. Global Handheld Field Spectrometer Sale Price by Spectral Range (2021-2026) & (US\$/Unit)

Table 20. Major Players of High-Resolution Field Spectrometer

Table 21. Major Players of Ultra-High Resolution Spectrometer

Table 22. Major Players of Standard Resolution Spectrometer

Table 23. Global Handheld Field Spectrometer Sales by Resolution (2021-2026) & (Units)

Table 24. Global Handheld Field Spectrometer Sales Market Share by Resolution

(2021-2026)

Table 25. Global Handheld Field Spectrometer Revenue by Resolution (2021-2026) & (\$ million)

Table 26. Global Handheld Field Spectrometer Revenue Market Share by Resolution (2021-2026)

Table 27. Global Handheld Field Spectrometer Sale Price by Resolution (2021-2026) & (US\$/Unit)

Table 28. Global Handheld Field Spectrometer Sale by Application (2021-2026) & (Units)

Table 29. Global Handheld Field Spectrometer Sale Market Share by Application (2021-2026)

Table 30. Global Handheld Field Spectrometer Revenue by Application (2021-2026) & (\$ million)

Table 31. Global Handheld Field Spectrometer Revenue Market Share by Application (2021-2026)

Table 32. Global Handheld Field Spectrometer Sale Price by Application (2021-2026) & (US\$/Unit)

Table 33. Global Handheld Field Spectrometer Sales by Company (2021-2026) & (Units)

Table 34. Global Handheld Field Spectrometer Sales Market Share by Company (2021-2026)

Table 35. Global Handheld Field Spectrometer Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global Handheld Field Spectrometer Revenue Market Share by Company (2021-2026)

Table 37. Global Handheld Field Spectrometer Sale Price by Company (2021-2026) & (US\$/Unit)

Table 38. Key Manufacturers Handheld Field Spectrometer Producing Area Distribution and Sales Area

Table 39. Players Handheld Field Spectrometer Products Offered

Table 40. Handheld Field Spectrometer Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global Handheld Field Spectrometer Sales by Geographic Region (2021-2026) & (Units)

Table 44. Global Handheld Field Spectrometer Sales Market Share Geographic Region (2021-2026)

Table 45. Global Handheld Field Spectrometer Revenue by Geographic Region

(2021-2026) & (\$ millions)

Table 46. Global Handheld Field Spectrometer Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global Handheld Field Spectrometer Sales by Country/Region (2021-2026) & (Units)

Table 48. Global Handheld Field Spectrometer Sales Market Share by Country/Region (2021-2026)

Table 49. Global Handheld Field Spectrometer Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global Handheld Field Spectrometer Revenue Market Share by Country/Region (2021-2026)

Table 51. Americas Handheld Field Spectrometer Sales by Country (2021-2026) & (Units)

Table 52. Americas Handheld Field Spectrometer Sales Market Share by Country (2021-2026)

Table 53. Americas Handheld Field Spectrometer Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas Handheld Field Spectrometer Sales by Type (2021-2026) & (Units)

Table 55. Americas Handheld Field Spectrometer Sales by Application (2021-2026) & (Units)

Table 56. APAC Handheld Field Spectrometer Sales by Region (2021-2026) & (Units)

Table 57. APAC Handheld Field Spectrometer Sales Market Share by Region (2021-2026)

Table 58. APAC Handheld Field Spectrometer Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC Handheld Field Spectrometer Sales by Type (2021-2026) & (Units)

Table 60. APAC Handheld Field Spectrometer Sales by Application (2021-2026) & (Units)

Table 61. Europe Handheld Field Spectrometer Sales by Country (2021-2026) & (Units)

Table 62. Europe Handheld Field Spectrometer Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe Handheld Field Spectrometer Sales by Type (2021-2026) & (Units)

Table 64. Europe Handheld Field Spectrometer Sales by Application (2021-2026) & (Units)

Table 65. Middle East & Africa Handheld Field Spectrometer Sales by Country (2021-2026) & (Units)

Table 66. Middle East & Africa Handheld Field Spectrometer Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa Handheld Field Spectrometer Sales by Type

(2021-2026) & (Units)

Table 68. Middle East & Africa Handheld Field Spectrometer Sales by Application

(2021-2026) & (Units)

Table 69. Key Market Drivers & Growth Opportunities of Handheld Field Spectrometer

Table 70. Key Market Challenges & Risks of Handheld Field Spectrometer

Table 71. Key Industry Trends of Handheld Field Spectrometer

Table 72. Handheld Field Spectrometer Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. Handheld Field Spectrometer Distributors List

Table 75. Handheld Field Spectrometer Customer List

Table 76. Global Handheld Field Spectrometer Sales Forecast by Region (2027-2032) & (Units)

Table 77. Global Handheld Field Spectrometer Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas Handheld Field Spectrometer Sales Forecast by Country (2027-2032) & (Units)

Table 79. Americas Handheld Field Spectrometer Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC Handheld Field Spectrometer Sales Forecast by Region (2027-2032) & (Units)

Table 81. APAC Handheld Field Spectrometer Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe Handheld Field Spectrometer Sales Forecast by Country (2027-2032) & (Units)

Table 83. Europe Handheld Field Spectrometer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa Handheld Field Spectrometer Sales Forecast by Country (2027-2032) & (Units)

Table 85. Middle East & Africa Handheld Field Spectrometer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global Handheld Field Spectrometer Sales Forecast by Type (2027-2032) & (Units)

Table 87. Global Handheld Field Spectrometer Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 88. Global Handheld Field Spectrometer Sales Forecast by Application (2027-2032) & (Units)

Table 89. Global Handheld Field Spectrometer Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Optosky (Xiamen) Technology Inc. Basic Information, Handheld Field

Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 91. Optosky (Xiamen) Technology Inc. Handheld Field Spectrometer Product Portfolios and Specifications

Table 92. Optosky (Xiamen) Technology Inc. Handheld Field Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 93. Optosky (Xiamen) Technology Inc. Main Business

Table 94. Optosky (Xiamen) Technology Inc. Latest Developments

Table 95. CHNSpec technology Basic Information, Handheld Field Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 96. CHNSpec technology Handheld Field Spectrometer Product Portfolios and Specifications

Table 97. CHNSpec technology Handheld Field Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 98. CHNSpec technology Main Business

Table 99. CHNSpec technology Latest Developments

Table 100. Lisen Optics (Shenzhen) Co., Ltd. Basic Information, Handheld Field Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 101. Lisen Optics (Shenzhen) Co., Ltd. Handheld Field Spectrometer Product Portfolios and Specifications

Table 102. Lisen Optics (Shenzhen) Co., Ltd. Handheld Field Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 103. Lisen Optics (Shenzhen) Co., Ltd. Main Business

Table 104. Lisen Optics (Shenzhen) Co., Ltd. Latest Developments

Table 105. Sichuan Shuangli Hepu Technology Co., Ltd. Basic Information, Handheld Field Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 106. Sichuan Shuangli Hepu Technology Co., Ltd. Handheld Field Spectrometer Product Portfolios and Specifications

Table 107. Sichuan Shuangli Hepu Technology Co., Ltd. Handheld Field Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 108. Sichuan Shuangli Hepu Technology Co., Ltd. Main Business

Table 109. Sichuan Shuangli Hepu Technology Co., Ltd. Latest Developments

Table 110. Shanghai Oceanhood opto-electronics Tech Co., Ltd. Basic Information, Handheld Field Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 111. Shanghai Oceanhood opto-electronics Tech Co., Ltd. Handheld Field Spectrometer Product Portfolios and Specifications

Table 112. Shanghai Oceanhood opto-electronics Tech Co., Ltd. Handheld Field Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 113. Shanghai Oceanhood opto-electronics Tech Co., Ltd. Main Business

Table 114. Shanghai Oceanhood opto-electronics Tech Co., Ltd. Latest Developments

Table 115. Malvern Panalytical Ltd Basic Information, Handheld Field Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 116. Malvern Panalytical Ltd Handheld Field Spectrometer Product Portfolios and Specifications

Table 117. Malvern Panalytical Ltd Handheld Field Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 118. Malvern Panalytical Ltd Main Business

Table 119. Malvern Panalytical Ltd Latest Developments

Table 120. Apogee Instruments, Inc. Basic Information, Handheld Field Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 121. Apogee Instruments, Inc. Handheld Field Spectrometer Product Portfolios and Specifications

Table 122. Apogee Instruments, Inc. Handheld Field Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 123. Apogee Instruments, Inc. Main Business

Table 124. Apogee Instruments, Inc. Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Handheld Field Spectrometer

Figure 2. Handheld Field Spectrometer Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Handheld Field Spectrometer Sales Growth Rate 2021-2032 (Units)

Figure 7. Global Handheld Field Spectrometer Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Handheld Field Spectrometer Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Handheld Field Spectrometer Sales Market Share by Country/Region (2025)

Figure 10. Handheld Field Spectrometer Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Narrow-field Handheld Field Spectrometer

Figure 12. Product Picture of Medium-field Handheld Field Spectrometer

Figure 13. Product Picture of Wide-field Handheld Field Spectrometer

Figure 14. Product Picture of Interchangeable FOV Handheld Field Spectrometer

Figure 15. Global Handheld Field Spectrometer Sales Market Share by Type in 2026

Figure 16. Global Handheld Field Spectrometer Revenue Market Share by Type (2021-2026)

Figure 17. Product Picture of Visible-NIR Spectrometer

Figure 18. Product Picture of Full-Range (VNIR+SWIR) Spectrometer

Figure 19. Product Picture of Shortwave Infrared Spectrometer

Figure 20. Global Handheld Field Spectrometer Sales Market Share by Spectral Range in 2026

Figure 21. Global Handheld Field Spectrometer Revenue Market Share by Spectral Range (2021-2026)

Figure 22. Product Picture of High-Resolution Field Spectrometer

Figure 23. Product Picture of Ultra-High Resolution Spectrometer

Figure 24. Product Picture of Standard Resolution Spectrometer

Figure 25. Global Handheld Field Spectrometer Sales Market Share by Resolution in 2026

Figure 26. Global Handheld Field Spectrometer Revenue Market Share by Resolution (2021-2026)

Figure 27. Handheld Field Spectrometer Consumed in Remote Sensing Measurement

Figure 28. Global Handheld Field Spectrometer Market: Remote Sensing Measurement (2021-2026) & (Units)

Figure 29. Handheld Field Spectrometer Consumed in Crop Monitoring

Figure 30. Global Handheld Field Spectrometer Market: Crop Monitoring (2021-2026) & (Units)

Figure 31. Handheld Field Spectrometer Consumed in Forest Research

Figure 32. Global Handheld Field Spectrometer Market: Forest Research (2021-2026) & (Units)

Figure 33. Handheld Field Spectrometer Consumed in Marine Research

Figure 34. Global Handheld Field Spectrometer Market: Marine Research (2021-2026) & (Units)

Figure 35. Handheld Field Spectrometer Consumed in Aquaculture

Figure 36. Global Handheld Field Spectrometer Market: Aquaculture (2021-2026) & (Units)

Figure 37. Handheld Field Spectrometer Consumed in Scientific Research and Teaching

Figure 38. Global Handheld Field Spectrometer Market: Scientific Research and Teaching (2021-2026) & (Units)

Figure 39. Handheld Field Spectrometer Consumed in Others

Figure 40. Global Handheld Field Spectrometer Market: Others (2021-2026) & (Units)

Figure 41. Global Handheld Field Spectrometer Sale Market Share by Application (2025)

Figure 42. Global Handheld Field Spectrometer Revenue Market Share by Application in 2025

Figure 43. Handheld Field Spectrometer Sales by Company in 2025 (Units)

Figure 44. Global Handheld Field Spectrometer Sales Market Share by Company in 2025

Figure 45. Handheld Field Spectrometer Revenue by Company in 2025 (\$ millions)

Figure 46. Global Handheld Field Spectrometer Revenue Market Share by Company in 2025

Figure 47. Global Handheld Field Spectrometer Sales Market Share by Geographic Region (2021-2026)

Figure 48. Global Handheld Field Spectrometer Revenue Market Share by Geographic Region in 2025

Figure 49. Americas Handheld Field Spectrometer Sales 2021-2026 (Units)

Figure 50. Americas Handheld Field Spectrometer Revenue 2021-2026 (\$ millions)

Figure 51. APAC Handheld Field Spectrometer Sales 2021-2026 (Units)

Figure 52. APAC Handheld Field Spectrometer Revenue 2021-2026 (\$ millions)

Figure 53. Europe Handheld Field Spectrometer Sales 2021-2026 (Units)

Figure 54. Europe Handheld Field Spectrometer Revenue 2021-2026 (\$ millions)

Figure 55. Middle East & Africa Handheld Field Spectrometer Sales 2021-2026 (Units)

Figure 56. Middle East & Africa Handheld Field Spectrometer Revenue 2021-2026 (\$ millions)

Figure 57. Americas Handheld Field Spectrometer Sales Market Share by Country in 2025

Figure 58. Americas Handheld Field Spectrometer Revenue Market Share by Country (2021-2026)

Figure 59. Americas Handheld Field Spectrometer Sales Market Share by Type (2021-2026)

Figure 60. Americas Handheld Field Spectrometer Sales Market Share by Application (2021-2026)

Figure 61. United States Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 62. Canada Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 63. Mexico Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 64. Brazil Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 65. APAC Handheld Field Spectrometer Sales Market Share by Region in 2025

Figure 66. APAC Handheld Field Spectrometer Revenue Market Share by Region (2021-2026)

Figure 67. APAC Handheld Field Spectrometer Sales Market Share by Type (2021-2026)

Figure 68. APAC Handheld Field Spectrometer Sales Market Share by Application (2021-2026)

Figure 69. China Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 70. Japan Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 71. South Korea Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 72. Southeast Asia Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 73. India Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 74. Australia Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 75. China Taiwan Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 76. Europe Handheld Field Spectrometer Sales Market Share by Country in 2025

Figure 77. Europe Handheld Field Spectrometer Revenue Market Share by Country (2021-2026)

Figure 78. Europe Handheld Field Spectrometer Sales Market Share by Type (2021-2026)

Figure 79. Europe Handheld Field Spectrometer Sales Market Share by Application (2021-2026)

Figure 80. Germany Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 81. France Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 82. UK Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 83. Italy Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 84. Russia Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 85. Middle East & Africa Handheld Field Spectrometer Sales Market Share by Country (2021-2026)

Figure 86. Middle East & Africa Handheld Field Spectrometer Sales Market Share by Type (2021-2026)

Figure 87. Middle East & Africa Handheld Field Spectrometer Sales Market Share by Application (2021-2026)

Figure 88. Egypt Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 89. South Africa Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 90. Israel Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 91. Turkey Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 92. GCC Countries Handheld Field Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 93. Manufacturing Cost Structure Analysis of Handheld Field Spectrometer in 2026

Figure 94. Manufacturing Process Analysis of Handheld Field Spectrometer

Figure 95. Industry Chain Structure of Handheld Field Spectrometer

Figure 96. Channels of Distribution

Figure 97. Global Handheld Field Spectrometer Sales Market Forecast by Region (2027-2032)

Figure 98. Global Handheld Field Spectrometer Revenue Market Share Forecast by Region (2027-2032)

Figure 99. Global Handheld Field Spectrometer Sales Market Share Forecast by Type (2027-2032)

Figure 100. Global Handheld Field Spectrometer Revenue Market Share Forecast by Type (2027-2032)

Figure 101. Global Handheld Field Spectrometer Sales Market Share Forecast by Application (2027-2032)

Figure 102. Global Handheld Field Spectrometer Revenue Market Share Forecast by Application (2027-2032)

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