

Global Back-illuminated Spectrometer Market Growth 2026-2032

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Abstracts

The global Back-illuminated Spectrometer market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

Back-illuminated spectrometer is a high-precision, high-sensitivity instrument that can measure and analyze the spectral characteristics of various substances. It uses a back-illuminated CCD sensor to illuminate light directly onto the pixel unit, achieving high resolution, low noise and fast response performance. Back-illuminated spectrometers are widely used in chemical analysis, material science, environmental science, energy and other fields, providing important tools for scientific research and technological applications.

United States market for Back-illuminated Spectrometer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Back-illuminated Spectrometer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Back-illuminated Spectrometer is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Back-illuminated Spectrometer players cover Ocean Insight, Spectral Products, Horiba, Gie Optics, Greateyes, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the ?Back-illuminated Spectrometer

Industry Forecast? looks at past sales and reviews total world Back-illuminated Spectrometer sales in 2025, providing a comprehensive analysis by region and market sector of projected Back-illuminated Spectrometer sales for 2026 through 2032. With Back-illuminated Spectrometer sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Back-illuminated Spectrometer industry.

This Insight Report provides a comprehensive analysis of the global Back-illuminated 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 Back-illuminated Spectrometer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Back-illuminated Spectrometer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Back-illuminated 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 Back-illuminated Spectrometer.

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

Segmentation by Type:

Cooled

Uncooled

Segmentation by Application:

Vehicle

Medical Equipment

Agriculture

Environmental Monitoring

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.

Ocean Insight

Spectral Products

Horiba

Gie Optics

Greateyes

Idea Optics

Shanghai Ruhai Optoelectronics Technology

Isuzu Optics

B&W Tek

Key Questions Addressed in this Report

What is the 10-year outlook for the global Back-illuminated Spectrometer market?

What factors are driving Back-illuminated Spectrometer market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Back-illuminated Spectrometer market opportunities vary by end market size?

How does Back-illuminated 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 Back-illuminated Spectrometer Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Back-illuminated Spectrometer by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Back-illuminated Spectrometer by Country/Region, 2021, 2025 & 2032
- 2.2 Back-illuminated Spectrometer Segment by Type
 - 2.2.1 Cooled
 - 2.2.2 Uncooled
 - 2.2.3 Back-illuminated Spectrometer Sales by Type
 - 2.2.3.1 Global Back-illuminated Spectrometer Sales Market Share by Type (2021-2026)
 - 2.2.3.2 Global Back-illuminated Spectrometer Revenue and Market Share by Type (2021-2026)
 - 2.2.3.3 Global Back-illuminated Spectrometer Sale Price by Type (2021-2026)
- 2.3 Back-illuminated Spectrometer Segment by Application
 - 2.3.1 Vehicle
 - 2.3.2 Medical Equipment
 - 2.3.3 Agriculture
 - 2.3.4 Environmental Monitoring
 - 2.3.5 Others
 - 2.3.6 Back-illuminated Spectrometer Sales by Application
 - 2.3.6.1 Global Back-illuminated Spectrometer Sale Market Share by Application (2021-2026)

2.3.6.2 Global Back-illuminated Spectrometer Revenue and Market Share by Application (2021-2026)

2.3.6.3 Global Back-illuminated Spectrometer Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Back-illuminated Spectrometer Breakdown Data by Company

3.1.1 Global Back-illuminated Spectrometer Annual Sales by Company (2021-2026)

3.1.2 Global Back-illuminated Spectrometer Sales Market Share by Company (2021-2026)

3.2 Global Back-illuminated Spectrometer Annual Revenue by Company (2021-2026)

3.2.1 Global Back-illuminated Spectrometer Revenue by Company (2021-2026)

3.2.2 Global Back-illuminated Spectrometer Revenue Market Share by Company (2021-2026)

3.3 Global Back-illuminated Spectrometer Sale Price by Company

3.4 Key Manufacturers Back-illuminated Spectrometer Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Back-illuminated Spectrometer Product Location Distribution

3.4.2 Players Back-illuminated 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 BACK-ILLUMINATED SPECTROMETER BY GEOGRAPHIC REGION

4.1 World Historic Back-illuminated Spectrometer Market Size by Geographic Region (2021-2026)

4.1.1 Global Back-illuminated Spectrometer Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Back-illuminated Spectrometer Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Back-illuminated Spectrometer Market Size by Country/Region (2021-2026)

4.2.1 Global Back-illuminated Spectrometer Annual Sales by Country/Region (2021-2026)

4.2.2 Global Back-illuminated Spectrometer Annual Revenue by Country/Region

(2021-2026)

4.3 Americas Back-illuminated Spectrometer Sales Growth

4.4 APAC Back-illuminated Spectrometer Sales Growth

4.5 Europe Back-illuminated Spectrometer Sales Growth

4.6 Middle East & Africa Back-illuminated Spectrometer Sales Growth

5 AMERICAS

5.1 Americas Back-illuminated Spectrometer Sales by Country

5.1.1 Americas Back-illuminated Spectrometer Sales by Country (2021-2026)

5.1.2 Americas Back-illuminated Spectrometer Revenue by Country (2021-2026)

5.2 Americas Back-illuminated Spectrometer Sales by Type (2021-2026)

5.3 Americas Back-illuminated Spectrometer Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Back-illuminated Spectrometer Sales by Region

6.1.1 APAC Back-illuminated Spectrometer Sales by Region (2021-2026)

6.1.2 APAC Back-illuminated Spectrometer Revenue by Region (2021-2026)

6.2 APAC Back-illuminated Spectrometer Sales by Type (2021-2026)

6.3 APAC Back-illuminated 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 Back-illuminated Spectrometer by Country

7.1.1 Europe Back-illuminated Spectrometer Sales by Country (2021-2026)

7.1.2 Europe Back-illuminated Spectrometer Revenue by Country (2021-2026)

7.2 Europe Back-illuminated Spectrometer Sales by Type (2021-2026)

7.3 Europe Back-illuminated 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 Back-illuminated Spectrometer by Country

8.1.1 Middle East & Africa Back-illuminated Spectrometer Sales by Country (2021-2026)

8.1.2 Middle East & Africa Back-illuminated Spectrometer Revenue by Country (2021-2026)

8.2 Middle East & Africa Back-illuminated Spectrometer Sales by Type (2021-2026)

8.3 Middle East & Africa Back-illuminated 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 Back-illuminated Spectrometer

10.3 Manufacturing Process Analysis of Back-illuminated Spectrometer

10.4 Industry Chain Structure of Back-illuminated Spectrometer

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

- 11.1.1 Direct Channels
- 11.1.2 Indirect Channels
- 11.2 Back-illuminated Spectrometer Distributors
- 11.3 Back-illuminated Spectrometer Customer

12 WORLD FORECAST REVIEW FOR BACK-ILLUMINATED SPECTROMETER BY GEOGRAPHIC REGION

- 12.1 Global Back-illuminated Spectrometer Market Size Forecast by Region
 - 12.1.1 Global Back-illuminated Spectrometer Forecast by Region (2027-2032)
 - 12.1.2 Global Back-illuminated 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 Back-illuminated Spectrometer Forecast by Type (2027-2032)
- 12.7 Global Back-illuminated Spectrometer Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Ocean Insight
 - 13.1.1 Ocean Insight Company Information
 - 13.1.2 Ocean Insight Back-illuminated Spectrometer Product Portfolios and Specifications
 - 13.1.3 Ocean Insight Back-illuminated Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Ocean Insight Main Business Overview
 - 13.1.5 Ocean Insight Latest Developments
- 13.2 Spectral Products
 - 13.2.1 Spectral Products Company Information
 - 13.2.2 Spectral Products Back-illuminated Spectrometer Product Portfolios and Specifications
 - 13.2.3 Spectral Products Back-illuminated Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Spectral Products Main Business Overview
 - 13.2.5 Spectral Products Latest Developments
- 13.3 Horiba
 - 13.3.1 Horiba Company Information

- 13.3.2 Horiba Back-illuminated Spectrometer Product Portfolios and Specifications
- 13.3.3 Horiba Back-illuminated Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Horiba Main Business Overview
- 13.3.5 Horiba Latest Developments
- 13.4 Gie Optics
 - 13.4.1 Gie Optics Company Information
 - 13.4.2 Gie Optics Back-illuminated Spectrometer Product Portfolios and Specifications
 - 13.4.3 Gie Optics Back-illuminated Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Gie Optics Main Business Overview
 - 13.4.5 Gie Optics Latest Developments
- 13.5 Greateyes
 - 13.5.1 Greateyes Company Information
 - 13.5.2 Greateyes Back-illuminated Spectrometer Product Portfolios and Specifications
 - 13.5.3 Greateyes Back-illuminated Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Greateyes Main Business Overview
 - 13.5.5 Greateyes Latest Developments
- 13.6 Idea Optics
 - 13.6.1 Idea Optics Company Information
 - 13.6.2 Idea Optics Back-illuminated Spectrometer Product Portfolios and Specifications
 - 13.6.3 Idea Optics Back-illuminated Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Idea Optics Main Business Overview
 - 13.6.5 Idea Optics Latest Developments
- 13.7 Shanghai Ruhai Optoelectronics Technology
 - 13.7.1 Shanghai Ruhai Optoelectronics Technology Company Information
 - 13.7.2 Shanghai Ruhai Optoelectronics Technology Back-illuminated Spectrometer Product Portfolios and Specifications
 - 13.7.3 Shanghai Ruhai Optoelectronics Technology Back-illuminated Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 Shanghai Ruhai Optoelectronics Technology Main Business Overview
 - 13.7.5 Shanghai Ruhai Optoelectronics Technology Latest Developments
- 13.8 Isuzu Optics
 - 13.8.1 Isuzu Optics Company Information
 - 13.8.2 Isuzu Optics Back-illuminated Spectrometer Product Portfolios and Specifications

13.8.3 Isuzu Optics Back-illuminated Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Isuzu Optics Main Business Overview

13.8.5 Isuzu Optics Latest Developments

13.9 B&W Tek

13.9.1 B&W Tek Company Information

13.9.2 B&W Tek Back-illuminated Spectrometer Product Portfolios and Specifications

13.9.3 B&W Tek Back-illuminated Spectrometer Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 B&W Tek Main Business Overview

13.9.5 B&W Tek Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

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

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

Table 3. Major Players of Cooled

Table 4. Major Players of Uncooled

Table 5. Global Back-illuminated Spectrometer Sales by Type (2021-2026) & (Units)

Table 6. Global Back-illuminated Spectrometer Sales Market Share by Type (2021-2026)

Table 7. Global Back-illuminated Spectrometer Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Back-illuminated Spectrometer Revenue Market Share by Type (2021-2026)

Table 9. Global Back-illuminated Spectrometer Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Global Back-illuminated Spectrometer Sale by Application (2021-2026) & (Units)

Table 11. Global Back-illuminated Spectrometer Sale Market Share by Application (2021-2026)

Table 12. Global Back-illuminated Spectrometer Revenue by Application (2021-2026) & (\$ million)

Table 13. Global Back-illuminated Spectrometer Revenue Market Share by Application (2021-2026)

Table 14. Global Back-illuminated Spectrometer Sale Price by Application (2021-2026) & (US\$/Unit)

Table 15. Global Back-illuminated Spectrometer Sales by Company (2021-2026) & (Units)

Table 16. Global Back-illuminated Spectrometer Sales Market Share by Company (2021-2026)

Table 17. Global Back-illuminated Spectrometer Revenue by Company (2021-2026) & (\$ millions)

Table 18. Global Back-illuminated Spectrometer Revenue Market Share by Company (2021-2026)

Table 19. Global Back-illuminated Spectrometer Sale Price by Company (2021-2026) & (US\$/Unit)

Table 20. Key Manufacturers Back-illuminated Spectrometer Producing Area Distribution and Sales Area
Table 21. Players Back-illuminated Spectrometer Products Offered
Table 22. Back-illuminated Spectrometer Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 23. New Products and Potential Entrants
Table 24. Market M&A Activity & Strategy
Table 25. Global Back-illuminated Spectrometer Sales by Geographic Region (2021-2026) & (Units)
Table 26. Global Back-illuminated Spectrometer Sales Market Share Geographic Region (2021-2026)
Table 27. Global Back-illuminated Spectrometer Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 28. Global Back-illuminated Spectrometer Revenue Market Share by Geographic Region (2021-2026)
Table 29. Global Back-illuminated Spectrometer Sales by Country/Region (2021-2026) & (Units)
Table 30. Global Back-illuminated Spectrometer Sales Market Share by Country/Region (2021-2026)
Table 31. Global Back-illuminated Spectrometer Revenue by Country/Region (2021-2026) & (\$ millions)
Table 32. Global Back-illuminated Spectrometer Revenue Market Share by Country/Region (2021-2026)
Table 33. Americas Back-illuminated Spectrometer Sales by Country (2021-2026) & (Units)
Table 34. Americas Back-illuminated Spectrometer Sales Market Share by Country (2021-2026)
Table 35. Americas Back-illuminated Spectrometer Revenue by Country (2021-2026) & (\$ millions)
Table 36. Americas Back-illuminated Spectrometer Sales by Type (2021-2026) & (Units)
Table 37. Americas Back-illuminated Spectrometer Sales by Application (2021-2026) & (Units)
Table 38. APAC Back-illuminated Spectrometer Sales by Region (2021-2026) & (Units)
Table 39. APAC Back-illuminated Spectrometer Sales Market Share by Region (2021-2026)
Table 40. APAC Back-illuminated Spectrometer Revenue by Region (2021-2026) & (\$ millions)
Table 41. APAC Back-illuminated Spectrometer Sales by Type (2021-2026) & (Units)

Table 42. APAC Back-illuminated Spectrometer Sales by Application (2021-2026) & (Units)

Table 43. Europe Back-illuminated Spectrometer Sales by Country (2021-2026) & (Units)

Table 44. Europe Back-illuminated Spectrometer Revenue by Country (2021-2026) & (\$ millions)

Table 45. Europe Back-illuminated Spectrometer Sales by Type (2021-2026) & (Units)

Table 46. Europe Back-illuminated Spectrometer Sales by Application (2021-2026) & (Units)

Table 47. Middle East & Africa Back-illuminated Spectrometer Sales by Country (2021-2026) & (Units)

Table 48. Middle East & Africa Back-illuminated Spectrometer Revenue Market Share by Country (2021-2026)

Table 49. Middle East & Africa Back-illuminated Spectrometer Sales by Type (2021-2026) & (Units)

Table 50. Middle East & Africa Back-illuminated Spectrometer Sales by Application (2021-2026) & (Units)

Table 51. Key Market Drivers & Growth Opportunities of Back-illuminated Spectrometer

Table 52. Key Market Challenges & Risks of Back-illuminated Spectrometer

Table 53. Key Industry Trends of Back-illuminated Spectrometer

Table 54. Back-illuminated Spectrometer Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Back-illuminated Spectrometer Distributors List

Table 57. Back-illuminated Spectrometer Customer List

Table 58. Global Back-illuminated Spectrometer Sales Forecast by Region (2027-2032) & (Units)

Table 59. Global Back-illuminated Spectrometer Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 60. Americas Back-illuminated Spectrometer Sales Forecast by Country (2027-2032) & (Units)

Table 61. Americas Back-illuminated Spectrometer Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 62. APAC Back-illuminated Spectrometer Sales Forecast by Region (2027-2032) & (Units)

Table 63. APAC Back-illuminated Spectrometer Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 64. Europe Back-illuminated Spectrometer Sales Forecast by Country (2027-2032) & (Units)

Table 65. Europe Back-illuminated Spectrometer Revenue Forecast by Country

(2027-2032) & (\$ millions)

Table 66. Middle East & Africa Back-illuminated Spectrometer Sales Forecast by Country (2027-2032) & (Units)

Table 67. Middle East & Africa Back-illuminated Spectrometer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 68. Global Back-illuminated Spectrometer Sales Forecast by Type (2027-2032) & (Units)

Table 69. Global Back-illuminated Spectrometer Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 70. Global Back-illuminated Spectrometer Sales Forecast by Application (2027-2032) & (Units)

Table 71. Global Back-illuminated Spectrometer Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 72. Ocean Insight Basic Information, Back-illuminated Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 73. Ocean Insight Back-illuminated Spectrometer Product Portfolios and Specifications

Table 74. Ocean Insight Back-illuminated Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 75. Ocean Insight Main Business

Table 76. Ocean Insight Latest Developments

Table 77. Spectral Products Basic Information, Back-illuminated Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 78. Spectral Products Back-illuminated Spectrometer Product Portfolios and Specifications

Table 79. Spectral Products Back-illuminated Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 80. Spectral Products Main Business

Table 81. Spectral Products Latest Developments

Table 82. Horiba Basic Information, Back-illuminated Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 83. Horiba Back-illuminated Spectrometer Product Portfolios and Specifications

Table 84. Horiba Back-illuminated Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 85. Horiba Main Business

Table 86. Horiba Latest Developments

Table 87. Gie Optics Basic Information, Back-illuminated Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 88. Gie Optics Back-illuminated Spectrometer Product Portfolios and

Specifications

Table 89. Gie Optics Back-illuminated Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Gie Optics Main Business

Table 91. Gie Optics Latest Developments

Table 92. Greateyes Basic Information, Back-illuminated Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 93. Greateyes Back-illuminated Spectrometer Product Portfolios and Specifications

Table 94. Greateyes Back-illuminated Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Greateyes Main Business

Table 96. Greateyes Latest Developments

Table 97. Idea Optics Basic Information, Back-illuminated Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 98. Idea Optics Back-illuminated Spectrometer Product Portfolios and Specifications

Table 99. Idea Optics Back-illuminated Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. Idea Optics Main Business

Table 101. Idea Optics Latest Developments

Table 102. Shanghai Ruhai Optoelectronics Technology Basic Information, Back-illuminated Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 103. Shanghai Ruhai Optoelectronics Technology Back-illuminated Spectrometer Product Portfolios and Specifications

Table 104. Shanghai Ruhai Optoelectronics Technology Back-illuminated Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Shanghai Ruhai Optoelectronics Technology Main Business

Table 106. Shanghai Ruhai Optoelectronics Technology Latest Developments

Table 107. Isuzu Optics Basic Information, Back-illuminated Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 108. Isuzu Optics Back-illuminated Spectrometer Product Portfolios and Specifications

Table 109. Isuzu Optics Back-illuminated Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Isuzu Optics Main Business

Table 111. Isuzu Optics Latest Developments

Table 112. B&W Tek Basic Information, Back-illuminated Spectrometer Manufacturing Base, Sales Area and Its Competitors

Table 113. B&W Tek Back-illuminated Spectrometer Product Portfolios and Specifications

Table 114. B&W Tek Back-illuminated Spectrometer Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. B&W Tek Main Business

Table 116. B&W Tek Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Back-illuminated Spectrometer
- Figure 2. Back-illuminated Spectrometer Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Back-illuminated Spectrometer Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Back-illuminated Spectrometer Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Back-illuminated Spectrometer Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Back-illuminated Spectrometer Sales Market Share by Country/Region (2025)
- Figure 10. Back-illuminated Spectrometer Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Cooled
- Figure 12. Product Picture of Uncooled
- Figure 13. Global Back-illuminated Spectrometer Sales Market Share by Type in 2026
- Figure 14. Global Back-illuminated Spectrometer Revenue Market Share by Type (2021-2026)
- Figure 15. Back-illuminated Spectrometer Consumed in Vehicle
- Figure 16. Global Back-illuminated Spectrometer Market: Vehicle (2021-2026) & (Units)
- Figure 17. Back-illuminated Spectrometer Consumed in Medical Equipment
- Figure 18. Global Back-illuminated Spectrometer Market: Medical Equipment (2021-2026) & (Units)
- Figure 19. Back-illuminated Spectrometer Consumed in Agriculture
- Figure 20. Global Back-illuminated Spectrometer Market: Agriculture (2021-2026) & (Units)
- Figure 21. Back-illuminated Spectrometer Consumed in Environmental Monitoring
- Figure 22. Global Back-illuminated Spectrometer Market: Environmental Monitoring (2021-2026) & (Units)
- Figure 23. Back-illuminated Spectrometer Consumed in Others
- Figure 24. Global Back-illuminated Spectrometer Market: Others (2021-2026) & (Units)
- Figure 25. Global Back-illuminated Spectrometer Sale Market Share by Application (2025)
- Figure 26. Global Back-illuminated Spectrometer Revenue Market Share by Application in 2026

- Figure 27. Back-illuminated Spectrometer Sales by Company in 2026 (Units)
- Figure 28. Global Back-illuminated Spectrometer Sales Market Share by Company in 2026
- Figure 29. Back-illuminated Spectrometer Revenue by Company in 2026 (\$ millions)
- Figure 30. Global Back-illuminated Spectrometer Revenue Market Share by Company in 2026
- Figure 31. Global Back-illuminated Spectrometer Sales Market Share by Geographic Region (2021-2026)
- Figure 32. Global Back-illuminated Spectrometer Revenue Market Share by Geographic Region in 2026
- Figure 33. Americas Back-illuminated Spectrometer Sales 2021-2026 (Units)
- Figure 34. Americas Back-illuminated Spectrometer Revenue 2021-2026 (\$ millions)
- Figure 35. APAC Back-illuminated Spectrometer Sales 2021-2026 (Units)
- Figure 36. APAC Back-illuminated Spectrometer Revenue 2021-2026 (\$ millions)
- Figure 37. Europe Back-illuminated Spectrometer Sales 2021-2026 (Units)
- Figure 38. Europe Back-illuminated Spectrometer Revenue 2021-2026 (\$ millions)
- Figure 39. Middle East & Africa Back-illuminated Spectrometer Sales 2021-2026 (Units)
- Figure 40. Middle East & Africa Back-illuminated Spectrometer Revenue 2021-2026 (\$ millions)
- Figure 41. Americas Back-illuminated Spectrometer Sales Market Share by Country in 2026
- Figure 42. Americas Back-illuminated Spectrometer Revenue Market Share by Country (2021-2026)
- Figure 43. Americas Back-illuminated Spectrometer Sales Market Share by Type (2021-2026)
- Figure 44. Americas Back-illuminated Spectrometer Sales Market Share by Application (2021-2026)
- Figure 45. United States Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)
- Figure 46. Canada Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)
- Figure 47. Mexico Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)
- Figure 48. Brazil Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)
- Figure 49. APAC Back-illuminated Spectrometer Sales Market Share by Region in 2026
- Figure 50. APAC Back-illuminated Spectrometer Revenue Market Share by Region (2021-2026)
- Figure 51. APAC Back-illuminated Spectrometer Sales Market Share by Type

(2021-2026)

Figure 52. APAC Back-illuminated Spectrometer Sales Market Share by Application (2021-2026)

Figure 53. China Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 54. Japan Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 55. South Korea Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 56. Southeast Asia Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 57. India Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 58. Australia Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 59. China Taiwan Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 60. Europe Back-illuminated Spectrometer Sales Market Share by Country in 2026

Figure 61. Europe Back-illuminated Spectrometer Revenue Market Share by Country (2021-2026)

Figure 62. Europe Back-illuminated Spectrometer Sales Market Share by Type (2021-2026)

Figure 63. Europe Back-illuminated Spectrometer Sales Market Share by Application (2021-2026)

Figure 64. Germany Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 65. France Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 66. UK Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 67. Italy Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 68. Russia Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 69. Middle East & Africa Back-illuminated Spectrometer Sales Market Share by Country (2021-2026)

Figure 70. Middle East & Africa Back-illuminated Spectrometer Sales Market Share by Type (2021-2026)

Figure 71. Middle East & Africa Back-illuminated Spectrometer Sales Market Share by Application (2021-2026)

Figure 72. Egypt Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$

millions)

Figure 73. South Africa Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 74. Israel Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 75. Turkey Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 76. GCC Countries Back-illuminated Spectrometer Revenue Growth 2021-2026 (\$ millions)

Figure 77. Manufacturing Cost Structure Analysis of Back-illuminated Spectrometer in 2026

Figure 78. Manufacturing Process Analysis of Back-illuminated Spectrometer

Figure 79. Industry Chain Structure of Back-illuminated Spectrometer

Figure 80. Channels of Distribution

Figure 81. Global Back-illuminated Spectrometer Sales Market Forecast by Region (2027-2032)

Figure 82. Global Back-illuminated Spectrometer Revenue Market Share Forecast by Region (2027-2032)

Figure 83. Global Back-illuminated Spectrometer Sales Market Share Forecast by Type (2027-2032)

Figure 84. Global Back-illuminated Spectrometer Revenue Market Share Forecast by Type (2027-2032)

Figure 85. Global Back-illuminated Spectrometer Sales Market Share Forecast by Application (2027-2032)

Figure 86. Global Back-illuminated Spectrometer Revenue Market Share Forecast by Application (2027-2032)

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