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Global Lead Sulfide (PbS) Detector Market Growth 2026-2032

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Abstracts

The global Lead Sulfide (PbS) Detector market size is predicted to grow from US$ 339 million in 2025 to US$ 499 million in 2032; it is expected to grow at a CAGR of 5.8% from 2026 to 2032.

To address the need for mid-infrared radiation detection and precise gas analysis, lead sulfide (PbS) detectors were developed. Since their high sensitivity in the 1–3 ?m band, PbS detectors have become indispensable key sensors in various industrial, scientific, and security applications, providing reliable technical support, particularly in gas detection and flame monitoring.

A lead sulfide (PbS) detector is an infrared detector based on PbS semiconductor material, primarily used for mid-infrared (1–3 μm) radiation detection. Due to its excellent thermoelectric properties and wide operating temperature range, PbS detectors are widely used in infrared imaging, gas analysis, flame detection, and environmental monitoring. Their working principle is based on the absorption of infrared radiation by PbS material and the resulting change in conductivity, thereby measuring radiation intensity. In 2024, the global market price for lead sulfide (PbS) detectors was $145 per unit, with sales of approximately 2.26 million units and global production capacity of 2.4-2.5 million units, resulting in an industry profit margin of 20-25%.

Global Market Landscape by Region

The demand for PbS detectors varies across different regions. North America and Europe: Driven by stringent environmental regulations and high-end technology requirements, North America and Europe are the main markets for PbS detectors. Demand in the US and EU for industrial monitoring, medical equipment, and military

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and security sectors is steadily increasing. Asia Pacific: Demand in countries like China and India is growing rapidly in industrial automation, environmental monitoring, and scientific research. With increased government investment in environmental protection and safety, the market share of PbS detectors in this region is increasing year by year. Middle East and Africa: Although the market in this region is relatively small, the market for PbS detectors is gradually expanding due to the increasing demand for efficient and accurate sensors from the oil and gas industry.

Upstream and Downstream Supply Chain Analysis

Upstream Supply Chain: Raw material suppliers are mainly PbS material manufacturers, as well as related semiconductor manufacturers and optoelectronic component suppliers. Sensor and Optoelectronic Component Manufacturers: Process PbS materials into detector chips, optical components, etc. This mainly includes optoelectronic semiconductor manufacturers and MEMS technology companies. Integrated Circuit and Control System Manufacturers: Responsible for integrating detectors into more complex detection systems and providing signal processing, data conversion, and communication interfaces. Downstream Industry Chain: End users include industries such as manufacturing, environmental protection, healthcare, military, and scientific research. Industrial and Energy Monitoring: Industries such as petrochemicals, steel, and mining require precise monitoring of parameters such as gases and temperatures. Environmental Monitoring: Used to detect air quality, greenhouse gases, and exhaust emissions. Military and Security: Used for applications such as infrared imaging and flame detection, meeting high-end monitoring and security needs. Medical Applications: Used for oxygen concentration detection in ventilators and anesthesia machines.

Technological Trends and Innovations

With technological advancements, innovations in PbS detectors are mainly reflected in the following aspects: Material Optimization: Developing new PbS-based composite materials to improve detector sensitivity, stability, and environmental adaptability. Integration and Miniaturization: With the development of MEMS technology, PbS detectors are moving towards smaller and more integrated designs, facilitating embedding in portable and small devices. Digitalization and Intelligence: Future PbS detectors will integrate more intelligent algorithms, sensor self-calibration, real-time data processing, and wireless transmission functions to meet the needs of the Industrial Internet and smart cities. Low-Temperature Performance: Improves the stability and response speed of PbS detectors in extremely low-temperature environments,

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expanding their application to more demanding fields.

Policy Support

Globally, government policies and regulations have driven the market growth of PbS detectors.

Environmental Regulations: For example, European environmental regulations require stricter monitoring of emissions, driving demand for gas monitoring detectors. Energy Management: Increasing global demands for energy efficiency and low carbon emissions are leading to a growing application of PbS detectors in energy monitoring and exhaust emissions. Security Standards: Increasingly stringent technical requirements in the military and security sectors are prompting the increasing use of PbS detectors in these fields, particularly given their performance under extreme conditions such as high temperature and high humidity.

Future Outlook

As PbS detector technology matures and market demand expands, its application areas will further expand in the coming years, and the market size will continue to grow.

Application Expansion: PbS detectors will not be limited to industry and environmental protection but will also play an increasingly important role in industries such as automotive, aerospace, and healthcare. Regional Market Potential: The Asia-Pacific and Latin American markets will be among the fastest-growing globally, especially as countries increase investment in environmental protection and industrial automation, leading to continued growth in demand for PbS detectors. Intelligent Development: With the widespread adoption of IoT technology, PbS detectors will evolve towards greater intelligence and networking, enabling remote data monitoring and analysis, further enhancing their market value.

Report Scope

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

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Detector industry.

This Insight Report provides a comprehensive analysis of the global Lead Sulfide (PbS) Detector 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 Lead Sulfide (PbS) Detector portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Lead Sulfide (PbS) Detector market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Lead Sulfide (PbS) Detector 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 Lead Sulfide (PbS) Detector.

This report presents a comprehensive overview, market shares, and growth opportunities of Lead Sulfide (PbS) Detector market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Cooled Type

Uncooled Type

Segmentation by Channels:

Single Channel

Multi-Channel

Segmentation by Detection Wavelength:

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Detection Wavelength 1-3μm

Detection Wavelength 1-3.3μm

Detection Wavelength 1-3.4μm

Segmentation by Application:

Industrial

Environmental Protection

Medical

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

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- 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.

- Infrared Materials
- Laser Components

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Agiltron

Opto Diode Corporation

Electro Optical Components

TrinamiX

Judson

Key Questions Addressed in this Report

What is the 10-year outlook for the global Lead Sulfide (PbS) Detector market?

What factors are driving Lead Sulfide (PbS) Detector market growth, globally and by region?

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

How do Lead Sulfide (PbS) Detector market opportunities vary by end market size?

How does Lead Sulfide (PbS) Detector break out by Type, by Application?

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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 Lead Sulfide (PbS) Detector Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Lead Sulfide (PbS) Detector by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Lead Sulfide (PbS) Detector by Country/Region, 2021, 2025 & 2032
2.2 Lead Sulfide (PbS) Detector Segment by Type
  2.2.1 Cooled Type
  2.2.2 Uncooled Type
  2.2.3 Lead Sulfide (PbS) Detector Sales by Type
    2.2.3.1 Global Lead Sulfide (PbS) Detector Sales Market Share by Type (2021-2026)
    2.2.3.2 Global Lead Sulfide (PbS) Detector Revenue and Market Share by Type (2021-2026)
    2.2.3.3 Global Lead Sulfide (PbS) Detector Sale Price by Type (2021-2026)
2.3 Lead Sulfide (PbS) Detector Segment by Channels
  2.3.1 Single Channel
  2.3.2 Multi-Channel
  2.3.3 Lead Sulfide (PbS) Detector Sales by Channels
    2.3.3.1 Global Lead Sulfide (PbS) Detector Sales Market Share by Channels (2021-2026)
    2.3.3.2 Global Lead Sulfide (PbS) Detector Revenue and Market Share by Channels (2021-2026)
    2.3.3.3 Global Lead Sulfide (PbS) Detector Sale Price by Channels (2021-2026)
2.4 Lead Sulfide (PbS) Detector Segment by Detection Wavelength

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2.4.1 Detection Wavelength 1-3μm
2.4.2 Detection Wavelength 1-3.3μm
2.4.3 Detection Wavelength 1-3.4μm
2.4.4 Lead Sulfide (PbS) Detector Sales by Detection Wavelength
2.4.4.1 Global Lead Sulfide (PbS) Detector Sales Market Share by Detection Wavelength (2021-2026)
2.4.4.2 Global Lead Sulfide (PbS) Detector Revenue and Market Share by Detection Wavelength (2021-2026)
2.4.4.3 Global Lead Sulfide (PbS) Detector Sale Price by Detection Wavelength (2021-2026)
2.5 Lead Sulfide (PbS) Detector Segment by Application
2.5.1 Industrial
2.5.2 Environmental Protection
2.5.3 Medical
2.5.4 Other
2.5.5 Lead Sulfide (PbS) Detector Sales by Application
2.5.5.1 Global Lead Sulfide (PbS) Detector Sale Market Share by Application (2021-2026)
2.5.5.2 Global Lead Sulfide (PbS) Detector Revenue and Market Share by Application (2021-2026)
2.5.5.3 Global Lead Sulfide (PbS) Detector Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Lead Sulfide (PbS) Detector Breakdown Data by Company
3.1.1 Global Lead Sulfide (PbS) Detector Annual Sales by Company (2021-2026)
3.1.2 Global Lead Sulfide (PbS) Detector Sales Market Share by Company (2021-2026)
3.2 Global Lead Sulfide (PbS) Detector Annual Revenue by Company (2021-2026)
3.2.1 Global Lead Sulfide (PbS) Detector Revenue by Company (2021-2026)
3.2.2 Global Lead Sulfide (PbS) Detector Revenue Market Share by Company (2021-2026)
3.3 Global Lead Sulfide (PbS) Detector Sale Price by Company
3.4 Key Manufacturers Lead Sulfide (PbS) Detector Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Lead Sulfide (PbS) Detector Product Location Distribution
3.4.2 Players Lead Sulfide (PbS) Detector Products Offered
3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis

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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 LEAD SULFIDE (PBS) DETECTOR BY GEOGRAPHIC REGION

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

5 AMERICAS

5.1 Americas Lead Sulfide (PbS) Detector Sales by Country
5.1.1 Americas Lead Sulfide (PbS) Detector Sales by Country (2021-2026)
5.1.2 Americas Lead Sulfide (PbS) Detector Revenue by Country (2021-2026)
5.2 Americas Lead Sulfide (PbS) Detector Sales by Type (2021-2026)
5.3 Americas Lead Sulfide (PbS) Detector Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

6.1 APAC Lead Sulfide (PbS) Detector Sales by Region

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6.1.1 APAC Lead Sulfide (PbS) Detector Sales by Region (2021-2026)
6.1.2 APAC Lead Sulfide (PbS) Detector Revenue by Region (2021-2026)
6.2 APAC Lead Sulfide (PbS) Detector Sales by Type (2021-2026)
6.3 APAC Lead Sulfide (PbS) Detector 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 Lead Sulfide (PbS) Detector by Country
7.1.1 Europe Lead Sulfide (PbS) Detector Sales by Country (2021-2026)
7.1.2 Europe Lead Sulfide (PbS) Detector Revenue by Country (2021-2026)
7.2 Europe Lead Sulfide (PbS) Detector Sales by Type (2021-2026)
7.3 Europe Lead Sulfide (PbS) Detector 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 Lead Sulfide (PbS) Detector by Country
8.1.1 Middle East & Africa Lead Sulfide (PbS) Detector Sales by Country (2021-2026)
8.1.2 Middle East & Africa Lead Sulfide (PbS) Detector Revenue by Country (2021-2026)
8.2 Middle East & Africa Lead Sulfide (PbS) Detector Sales by Type (2021-2026)
8.3 Middle East & Africa Lead Sulfide (PbS) Detector Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa
8.6 Israel
8.7 Turkey
8.8 GCC Countries

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info@marketpublishers.com

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 Lead Sulfide (PbS) Detector
10.3 Manufacturing Process Analysis of Lead Sulfide (PbS) Detector
10.4 Industry Chain Structure of Lead Sulfide (PbS) Detector

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Lead Sulfide (PbS) Detector Distributors
11.3 Lead Sulfide (PbS) Detector Customer

12 WORLD FORECAST REVIEW FOR LEAD SULFIDE (PBS) DETECTOR BY GEOGRAPHIC REGION

12.1 Global Lead Sulfide (PbS) Detector Market Size Forecast by Region
  12.1.1 Global Lead Sulfide (PbS) Detector Forecast by Region (2027-2032)
  12.1.2 Global Lead Sulfide (PbS) Detector 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 Lead Sulfide (PbS) Detector Forecast by Type (2027-2032)
12.7 Global Lead Sulfide (PbS) Detector Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Infrared Materials
  13.1.1 Infrared Materials Company Information

+357 96 030922
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13.1.2 Infrared Materials Lead Sulfide (PbS) Detector Product Portfolios and Specifications
13.1.3 Infrared Materials Lead Sulfide (PbS) Detector Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Infrared Materials Main Business Overview
13.1.5 Infrared Materials Latest Developments
13.2 Laser Components
13.2.1 Laser Components Company Information
13.2.2 Laser Components Lead Sulfide (PbS) Detector Product Portfolios and Specifications
13.2.3 Laser Components Lead Sulfide (PbS) Detector Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Laser Components Main Business Overview
13.2.5 Laser Components Latest Developments
13.3 Agiltron
13.3.1 Agiltron Company Information
13.3.2 Agiltron Lead Sulfide (PbS) Detector Product Portfolios and Specifications
13.3.3 Agiltron Lead Sulfide (PbS) Detector Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 Agiltron Main Business Overview
13.3.5 Agiltron Latest Developments
13.4 Opto Diode Corporation
13.4.1 Opto Diode Corporation Company Information
13.4.2 Opto Diode Corporation Lead Sulfide (PbS) Detector Product Portfolios and Specifications
13.4.3 Opto Diode Corporation Lead Sulfide (PbS) Detector Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Opto Diode Corporation Main Business Overview
13.4.5 Opto Diode Corporation Latest Developments
13.5 Electro Optical Components
13.5.1 Electro Optical Components Company Information
13.5.2 Electro Optical Components Lead Sulfide (PbS) Detector Product Portfolios and Specifications
13.5.3 Electro Optical Components Lead Sulfide (PbS) Detector Sales, Revenue, Price and Gross Margin (2021-2026)
13.5.4 Electro Optical Components Main Business Overview
13.5.5 Electro Optical Components Latest Developments
13.6 TrinamiX
13.6.1 TrinamiX Company Information

+357 96 030922
info@marketpublishers.com

13.6.2 TrinamiX Lead Sulfide (PbS) Detector Product Portfolios and Specifications
13.6.3 TrinamiX Lead Sulfide (PbS) Detector Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 TrinamiX Main Business Overview
13.6.5 TrinamiX Latest Developments
13.7 Judson
13.7.1 Judson Company Information
13.7.2 Judson Lead Sulfide (PbS) Detector Product Portfolios and Specifications
13.7.3 Judson Lead Sulfide (PbS) Detector Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Judson Main Business Overview
13.7.5 Judson Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

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info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Lead Sulfide (PbS) Detector Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Lead Sulfide (PbS) Detector Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Cooled Type
Table 4. Major Players of Uncooled Type
Table 5. Global Lead Sulfide (PbS) Detector Sales by Type (2021-2026) & (K Units)
Table 6. Global Lead Sulfide (PbS) Detector Sales Market Share by Type (2021-2026)
Table 7. Global Lead Sulfide (PbS) Detector Revenue by Type (2021-2026) & ($ million)
Table 8. Global Lead Sulfide (PbS) Detector Revenue Market Share by Type (2021-2026)
Table 9. Global Lead Sulfide (PbS) Detector Sale Price by Type (2021-2026) & (US$/Unit)
Table 10. Major Players of Single Channel
Table 11. Major Players of Multi-Channel
Table 12. Global Lead Sulfide (PbS) Detector Sales by Channels (2021-2026) & (K Units)
Table 13. Global Lead Sulfide (PbS) Detector Sales Market Share by Channels (2021-2026)
Table 14. Global Lead Sulfide (PbS) Detector Revenue by Channels (2021-2026) & ($ million)
Table 15. Global Lead Sulfide (PbS) Detector Revenue Market Share by Channels (2021-2026)
Table 16. Global Lead Sulfide (PbS) Detector Sale Price by Channels (2021-2026) & (US$/Unit)
Table 17. Major Players of Detection Wavelength 1-3μm
Table 18. Major Players of Detection Wavelength 1-3.3μm
Table 19. Major Players of Detection Wavelength 1-3.4μm
Table 20. Global Lead Sulfide (PbS) Detector Sales by Detection Wavelength (2021-2026) & (K Units)
Table 21. Global Lead Sulfide (PbS) Detector Sales Market Share by Detection Wavelength (2021-2026)
Table 22. Global Lead Sulfide (PbS) Detector Revenue by Detection Wavelength (2021-2026) & ($ million)
Table 23. Global Lead Sulfide (PbS) Detector Revenue Market Share by Detection

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Wavelength (2021-2026)
Table 24. Global Lead Sulfide (PbS) Detector Sale Price by Detection Wavelength (2021-2026) & (US$/Unit)
Table 25. Global Lead Sulfide (PbS) Detector Sale by Application (2021-2026) & (K Units)
Table 26. Global Lead Sulfide (PbS) Detector Sale Market Share by Application (2021-2026)
Table 27. Global Lead Sulfide (PbS) Detector Revenue by Application (2021-2026) & ($ million)
Table 28. Global Lead Sulfide (PbS) Detector Revenue Market Share by Application (2021-2026)
Table 29. Global Lead Sulfide (PbS) Detector Sale Price by Application (2021-2026) & (US$/Unit)
Table 30. Global Lead Sulfide (PbS) Detector Sales by Company (2021-2026) & (K Units)
Table 31. Global Lead Sulfide (PbS) Detector Sales Market Share by Company (2021-2026)
Table 32. Global Lead Sulfide (PbS) Detector Revenue by Company (2021-2026) & ($ millions)
Table 33. Global Lead Sulfide (PbS) Detector Revenue Market Share by Company (2021-2026)
Table 34. Global Lead Sulfide (PbS) Detector Sale Price by Company (2021-2026) & (US$/Unit)
Table 35. Key Manufacturers Lead Sulfide (PbS) Detector Producing Area Distribution and Sales Area
Table 36. Players Lead Sulfide (PbS) Detector Products Offered
Table 37. Lead Sulfide (PbS) Detector Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 38. New Products and Potential Entrants
Table 39. Market M&A Activity & Strategy
Table 40. Global Lead Sulfide (PbS) Detector Sales by Geographic Region (2021-2026) & (K Units)
Table 41. Global Lead Sulfide (PbS) Detector Sales Market Share Geographic Region (2021-2026)
Table 42. Global Lead Sulfide (PbS) Detector Revenue by Geographic Region (2021-2026) & ($ millions)
Table 43. Global Lead Sulfide (PbS) Detector Revenue Market Share by Geographic Region (2021-2026)
Table 44. Global Lead Sulfide (PbS) Detector Sales by Country/Region (2021-2026) &

+357 96 030922
info@marketpublishers.com

(K Units)
Table 45. Global Lead Sulfide (PbS) Detector Sales Market Share by Country/Region (2021-2026)
Table 46. Global Lead Sulfide (PbS) Detector Revenue by Country/Region (2021-2026) & ($ millions)
Table 47. Global Lead Sulfide (PbS) Detector Revenue Market Share by Country/Region (2021-2026)
Table 48. Americas Lead Sulfide (PbS) Detector Sales by Country (2021-2026) & (K Units)
Table 49. Americas Lead Sulfide (PbS) Detector Sales Market Share by Country (2021-2026)
Table 50. Americas Lead Sulfide (PbS) Detector Revenue by Country (2021-2026) & ($ millions)
Table 51. Americas Lead Sulfide (PbS) Detector Sales by Type (2021-2026) & (K Units)
Table 52. Americas Lead Sulfide (PbS) Detector Sales by Application (2021-2026) & (K Units)
Table 53. APAC Lead Sulfide (PbS) Detector Sales by Region (2021-2026) & (K Units)
Table 54. APAC Lead Sulfide (PbS) Detector Sales Market Share by Region (2021-2026)
Table 55. APAC Lead Sulfide (PbS) Detector Revenue by Region (2021-2026) & ($ millions)
Table 56. APAC Lead Sulfide (PbS) Detector Sales by Type (2021-2026) & (K Units)
Table 57. APAC Lead Sulfide (PbS) Detector Sales by Application (2021-2026) & (K Units)
Table 58. Europe Lead Sulfide (PbS) Detector Sales by Country (2021-2026) & (K Units)
Table 59. Europe Lead Sulfide (PbS) Detector Revenue by Country (2021-2026) & ($ millions)
Table 60. Europe Lead Sulfide (PbS) Detector Sales by Type (2021-2026) & (K Units)
Table 61. Europe Lead Sulfide (PbS) Detector Sales by Application (2021-2026) & (K Units)
Table 62. Middle East & Africa Lead Sulfide (PbS) Detector Sales by Country (2021-2026) & (K Units)
Table 63. Middle East & Africa Lead Sulfide (PbS) Detector Revenue Market Share by Country (2021-2026)
Table 64. Middle East & Africa Lead Sulfide (PbS) Detector Sales by Type (2021-2026) & (K Units)
Table 65. Middle East & Africa Lead Sulfide (PbS) Detector Sales by Application (2021-2026) & (K Units)

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Table 66. Key Market Drivers & Growth Opportunities of Lead Sulfide (PbS) Detector
Table 67. Key Market Challenges & Risks of Lead Sulfide (PbS) Detector
Table 68. Key Industry Trends of Lead Sulfide (PbS) Detector
Table 69. Lead Sulfide (PbS) Detector Raw Material
Table 70. Key Suppliers of Raw Materials
Table 71. Lead Sulfide (PbS) Detector Distributors List
Table 72. Lead Sulfide (PbS) Detector Customer List
Table 73. Global Lead Sulfide (PbS) Detector Sales Forecast by Region (2027-2032) & (K Units)
Table 74. Global Lead Sulfide (PbS) Detector Revenue Forecast by Region (2027-2032) & ($ millions)
Table 75. Americas Lead Sulfide (PbS) Detector Sales Forecast by Country (2027-2032) & (K Units)
Table 76. Americas Lead Sulfide (PbS) Detector Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 77. APAC Lead Sulfide (PbS) Detector Sales Forecast by Region (2027-2032) & (K Units)
Table 78. APAC Lead Sulfide (PbS) Detector Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 79. Europe Lead Sulfide (PbS) Detector Sales Forecast by Country (2027-2032) & (K Units)
Table 80. Europe Lead Sulfide (PbS) Detector Revenue Forecast by Country (2027-2032) & ($ millions)
Table 81. Middle East & Africa Lead Sulfide (PbS) Detector Sales Forecast by Country (2027-2032) & (K Units)
Table 82. Middle East & Africa Lead Sulfide (PbS) Detector Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. Global Lead Sulfide (PbS) Detector Sales Forecast by Type (2027-2032) & (K Units)
Table 84. Global Lead Sulfide (PbS) Detector Revenue Forecast by Type (2027-2032) & ($ millions)
Table 85. Global Lead Sulfide (PbS) Detector Sales Forecast by Application (2027-2032) & (K Units)
Table 86. Global Lead Sulfide (PbS) Detector Revenue Forecast by Application (2027-2032) & ($ millions)
Table 87. Infrared Materials Basic Information, Lead Sulfide (PbS) Detector Manufacturing Base, Sales Area and Its Competitors
Table 88. Infrared Materials Lead Sulfide (PbS) Detector Product Portfolios and Specifications

+357 96 030922
info@marketpublishers.com

Table 89. Infrared Materials Lead Sulfide (PbS) Detector Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 90. Infrared Materials Main Business
Table 91. Infrared Materials Latest Developments
Table 92. Laser Components Basic Information, Lead Sulfide (PbS) Detector Manufacturing Base, Sales Area and Its Competitors
Table 93. Laser Components Lead Sulfide (PbS) Detector Product Portfolios and Specifications
Table 94. Laser Components Lead Sulfide (PbS) Detector Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 95. Laser Components Main Business
Table 96. Laser Components Latest Developments
Table 97. Agiltron Basic Information, Lead Sulfide (PbS) Detector Manufacturing Base, Sales Area and Its Competitors
Table 98. Agiltron Lead Sulfide (PbS) Detector Product Portfolios and Specifications
Table 99. Agiltron Lead Sulfide (PbS) Detector Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 100. Agiltron Main Business
Table 101. Agiltron Latest Developments
Table 102. Opto Diode Corporation Basic Information, Lead Sulfide (PbS) Detector Manufacturing Base, Sales Area and Its Competitors
Table 103. Opto Diode Corporation Lead Sulfide (PbS) Detector Product Portfolios and Specifications
Table 104. Opto Diode Corporation Lead Sulfide (PbS) Detector Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 105. Opto Diode Corporation Main Business
Table 106. Opto Diode Corporation Latest Developments
Table 107. Electro Optical Components Basic Information, Lead Sulfide (PbS) Detector Manufacturing Base, Sales Area and Its Competitors
Table 108. Electro Optical Components Lead Sulfide (PbS) Detector Product Portfolios and Specifications
Table 109. Electro Optical Components Lead Sulfide (PbS) Detector Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 110. Electro Optical Components Main Business
Table 111. Electro Optical Components Latest Developments
Table 112. TrinamiX Basic Information, Lead Sulfide (PbS) Detector Manufacturing Base, Sales Area and Its Competitors
Table 113. TrinamiX Lead Sulfide (PbS) Detector Product Portfolios and Specifications
Table 114. TrinamiX Lead Sulfide (PbS) Detector Sales (K Units), Revenue ($ Million),

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Price (US$/Unit) and Gross Margin (2021-2026)
Table 115. TrinamiX Main Business
Table 116. TrinamiX Latest Developments
Table 117. Judson Basic Information, Lead Sulfide (PbS) Detector Manufacturing Base, Sales Area and Its Competitors
Table 118. Judson Lead Sulfide (PbS) Detector Product Portfolios and Specifications
Table 119. Judson Lead Sulfide (PbS) Detector Sales (K Units), Revenue ($ Million), Price (US$/Unit) and Gross Margin (2021-2026)
Table 120. Judson Main Business
Table 121. Judson Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Lead Sulfide (PbS) Detector
Figure 2. Lead Sulfide (PbS) Detector Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Lead Sulfide (PbS) Detector Sales Growth Rate 2021-2032 (K Units)
Figure 7. Global Lead Sulfide (PbS) Detector Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Lead Sulfide (PbS) Detector Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Lead Sulfide (PbS) Detector Sales Market Share by Country/Region (2025)
Figure 10. Lead Sulfide (PbS) Detector Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Cooled Type
Figure 12. Product Picture of Uncooled Type
Figure 13. Global Lead Sulfide (PbS) Detector Sales Market Share by Type in 2026
Figure 14. Global Lead Sulfide (PbS) Detector Revenue Market Share by Type (2021-2026)
Figure 15. Product Picture of Single Channel
Figure 16. Product Picture of Multi-Channel
Figure 17. Global Lead Sulfide (PbS) Detector Sales Market Share by Channels in 2026
Figure 18. Global Lead Sulfide (PbS) Detector Revenue Market Share by Channels (2021-2026)
Figure 19. Product Picture of Detection Wavelength 1-3μm
Figure 20. Product Picture of Detection Wavelength 1-3.3μm
Figure 21. Product Picture of Detection Wavelength 1-3.4μm
Figure 22. Global Lead Sulfide (PbS) Detector Sales Market Share by Detection Wavelength in 2026
Figure 23. Global Lead Sulfide (PbS) Detector Revenue Market Share by Detection Wavelength (2021-2026)
Figure 24. Lead Sulfide (PbS) Detector Consumed in Industrial
Figure 25. Global Lead Sulfide (PbS) Detector Market: Industrial (2021-2026) & (K Units)
Figure 26. Lead Sulfide (PbS) Detector Consumed in Environmental Protection
Figure 27. Global Lead Sulfide (PbS) Detector Market: Environmental Protection

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(2021-2026) & (K Units)
Figure 28. Lead Sulfide (PbS) Detector Consumed in Medical
Figure 29. Global Lead Sulfide (PbS) Detector Market: Medical (2021-2026) & (K Units)
Figure 30. Lead Sulfide (PbS) Detector Consumed in Other
Figure 31. Global Lead Sulfide (PbS) Detector Market: Other (2021-2026) & (K Units)
Figure 32. Global Lead Sulfide (PbS) Detector Sale Market Share by Application (2025)
Figure 33. Global Lead Sulfide (PbS) Detector Revenue Market Share by Application in 2026
Figure 34. Lead Sulfide (PbS) Detector Sales by Company in 2026 (K Units)
Figure 35. Global Lead Sulfide (PbS) Detector Sales Market Share by Company in 2026
Figure 36. Lead Sulfide (PbS) Detector Revenue by Company in 2026 ($ millions)
Figure 37. Global Lead Sulfide (PbS) Detector Revenue Market Share by Company in 2026
Figure 38. Global Lead Sulfide (PbS) Detector Sales Market Share by Geographic Region (2021-2026)
Figure 39. Global Lead Sulfide (PbS) Detector Revenue Market Share by Geographic Region in 2026
Figure 40. Americas Lead Sulfide (PbS) Detector Sales 2021-2026 (K Units)
Figure 41. Americas Lead Sulfide (PbS) Detector Revenue 2021-2026 ($ millions)
Figure 42. APAC Lead Sulfide (PbS) Detector Sales 2021-2026 (K Units)
Figure 43. APAC Lead Sulfide (PbS) Detector Revenue 2021-2026 ($ millions)
Figure 44. Europe Lead Sulfide (PbS) Detector Sales 2021-2026 (K Units)
Figure 45. Europe Lead Sulfide (PbS) Detector Revenue 2021-2026 ($ millions)
Figure 46. Middle East & Africa Lead Sulfide (PbS) Detector Sales 2021-2026 (K Units)
Figure 47. Middle East & Africa Lead Sulfide (PbS) Detector Revenue 2021-2026 ($ millions)
Figure 48. Americas Lead Sulfide (PbS) Detector Sales Market Share by Country in 2026
Figure 49. Americas Lead Sulfide (PbS) Detector Revenue Market Share by Country (2021-2026)
Figure 50. Americas Lead Sulfide (PbS) Detector Sales Market Share by Type (2021-2026)
Figure 51. Americas Lead Sulfide (PbS) Detector Sales Market Share by Application (2021-2026)
Figure 52. United States Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 53. Canada Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 54. Mexico Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 55. Brazil Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)

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Figure 56. APAC Lead Sulfide (PbS) Detector Sales Market Share by Region in 2026
Figure 57. APAC Lead Sulfide (PbS) Detector Revenue Market Share by Region (2021-2026)
Figure 58. APAC Lead Sulfide (PbS) Detector Sales Market Share by Type (2021-2026)
Figure 59. APAC Lead Sulfide (PbS) Detector Sales Market Share by Application (2021-2026)
Figure 60. China Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 61. Japan Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 62. South Korea Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 63. Southeast Asia Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 64. India Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 65. Australia Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 66. China Taiwan Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 67. Europe Lead Sulfide (PbS) Detector Sales Market Share by Country in 2026
Figure 68. Europe Lead Sulfide (PbS) Detector Revenue Market Share by Country (2021-2026)
Figure 69. Europe Lead Sulfide (PbS) Detector Sales Market Share by Type (2021-2026)
Figure 70. Europe Lead Sulfide (PbS) Detector Sales Market Share by Application (2021-2026)
Figure 71. Germany Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 72. France Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 73. UK Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 74. Italy Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 75. Russia Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 76. Middle East & Africa Lead Sulfide (PbS) Detector Sales Market Share by Country (2021-2026)
Figure 77. Middle East & Africa Lead Sulfide (PbS) Detector Sales Market Share by Type (2021-2026)
Figure 78. Middle East & Africa Lead Sulfide (PbS) Detector Sales Market Share by Application (2021-2026)
Figure 79. Egypt Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 80. South Africa Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)

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Figure 81. Israel Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 82. Turkey Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 83. GCC Countries Lead Sulfide (PbS) Detector Revenue Growth 2021-2026 ($ millions)
Figure 84. Manufacturing Cost Structure Analysis of Lead Sulfide (PbS) Detector in 2026
Figure 85. Manufacturing Process Analysis of Lead Sulfide (PbS) Detector
Figure 86. Industry Chain Structure of Lead Sulfide (PbS) Detector
Figure 87. Channels of Distribution
Figure 88. Global Lead Sulfide (PbS) Detector Sales Market Forecast by Region (2027-2032)
Figure 89. Global Lead Sulfide (PbS) Detector Revenue Market Share Forecast by Region (2027-2032)
Figure 90. Global Lead Sulfide (PbS) Detector Sales Market Share Forecast by Type (2027-2032)
Figure 91. Global Lead Sulfide (PbS) Detector Revenue Market Share Forecast by Type (2027-2032)
Figure 92. Global Lead Sulfide (PbS) Detector Sales Market Share Forecast by Application (2027-2032)
Figure 93. Global Lead Sulfide (PbS) Detector Revenue Market Share Forecast by Application (2027-2032)

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