

Global Lead Selenide (PbSe) Infrared Detector Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Lead Selenide (PbSe) Infrared Detector market size was valued at US\$ 337 million in 2025 and is forecast to a readjusted size of US\$ 490 million by 2032 with a CAGR of 5.5% during review period.

Lead selenide (PbSe) infrared detectors are photodetectors made from lead selenide semiconductor materials, specifically designed for detecting mid-wave infrared (MWIR) radiation. They feature high sensitivity, low noise, and a wide spectral response range. The upstream sector includes raw materials (such as PbSe crystals), sensor components, and packaging technology; the midstream sector involves detector manufacturing and integration, encompassing optical design and electronic processing; and the downstream sector includes multiple application areas such as automotive, medical, security, and industrial monitoring. In 2024, the global average price of lead selenide (PbSe) detectors was \$145 per unit, with sales reaching 2.26 million units and global production capacity at 2.3-2.5 million units, resulting in an industry profit margin of 25-40%.

In the future, the global market for PbSe (lead selenide) infrared detectors is expected to continue evolving toward uncooled mid-wave infrared technology, low-cost mass manufacturing, and system-level integration. Leveraging PbSe's ability to operate at room temperature and its rapid response speed—qualities already utilized in applications such as gas analysis, spectroscopy, process control, thermal imaging, and security—the commercial application of related products is poised to expand further into the fields of industrial inspection, environmental monitoring, and specialized imaging. Concurrently, technological development will increasingly prioritize improvements in thin-film uniformity and process consistency; the optimization of heterojunctions (such as

PbSe/CdSe) and nanostructures; and integration with CMOS and multi-pixel readout circuitry. This trajectory will drive the further evolution of these devices from single-element detectors into focal plane arrays and miniaturized modules—formats far better suited for commercial imaging applications.

This report is a detailed and comprehensive analysis for global Lead Selenide (PbSe) Infrared Detector market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Lead Selenide (PbSe) Infrared Detector market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lead Selenide (PbSe) Infrared Detector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lead Selenide (PbSe) Infrared Detector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lead Selenide (PbSe) Infrared Detector market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Lead Selenide (PbSe) Infrared Detector

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Lead Selenide (PbSe) Infrared Detector market based on the following parameters - company overview, sales quantity, revenue,

price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Judson, N.E.P., Opto Diode, Agiltron, Laser Components, Infrared Materials, Teledyne Judson, Trinamix, Zolix Instruments, etc.

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

Market Segmentation

Lead Selenide (PbSe) Infrared Detector market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Cooled Type

Uncooled Type

Market segment by Channels

Single Channel

Dual Channel

Quad Channel

Market segment by Detection Wavelength

Detection Wavelength 4.7 μ m

Detection Wavelength 5.0 μ m

Detection Wavelength 5.2 μ m

Market segment by Application

Automotive

Medical

Security

Industrial

Other

Major players covered

Judson

N.E.P.

Opto Diode

Agiltron

Laser Components

Infrared Materials

Teledyne Judson

Trinamix

Zolix Instruments

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Lead Selenide (PbSe) Infrared Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lead Selenide (PbSe) Infrared Detector, with price, sales quantity, revenue, and global market share of Lead Selenide (PbSe) Infrared Detector from 2021 to 2026.

Chapter 3, the Lead Selenide (PbSe) Infrared Detector competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lead Selenide (PbSe) Infrared Detector breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Lead Selenide (PbSe) Infrared Detector market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Lead Selenide (PbSe) Infrared Detector.

Chapter 14 and 15, to describe Lead Selenide (PbSe) Infrared Detector sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Type: 2021 Versus 2025 Versus 2032

1.3.2 Cooled Type

1.3.3 Uncooled Type

1.4 Market Analysis by Channels

1.4.1 Overview: Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Channels: 2021 Versus 2025 Versus 2032

1.4.2 Single Channel

1.4.3 Dual Channel

1.4.4 Quad Channel

1.5 Market Analysis by Detection Wavelength

1.5.1 Overview: Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Detection Wavelength: 2021 Versus 2025 Versus 2032

1.5.2 Detection Wavelength 4.7 μ m

1.5.3 Detection Wavelength 5.0 μ m

1.5.4 Detection Wavelength 5.2 μ m

1.6 Market Analysis by Application

1.6.1 Overview: Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Automotive

1.6.3 Medical

1.6.4 Security

1.6.5 Industrial

1.6.6 Other

1.7 Global Lead Selenide (PbSe) Infrared Detector Market Size & Forecast

1.7.1 Global Lead Selenide (PbSe) Infrared Detector Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Lead Selenide (PbSe) Infrared Detector Sales Quantity (2021-2032)

1.7.3 Global Lead Selenide (PbSe) Infrared Detector Average Price (2021-2032)

2 MANUFACTURERS PROFILES

2.1 Judson

2.1.1 Judson Details

2.1.2 Judson Major Business

2.1.3 Judson Lead Selenide (PbSe) Infrared Detector Product and Services

2.1.4 Judson Lead Selenide (PbSe) Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.1.5 Judson Recent Developments/Updates

2.2 N.E.P.

2.2.1 N.E.P. Details

2.2.2 N.E.P. Major Business

2.2.3 N.E.P. Lead Selenide (PbSe) Infrared Detector Product and Services

2.2.4 N.E.P. Lead Selenide (PbSe) Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.2.5 N.E.P. Recent Developments/Updates

2.3 Opto Diode

2.3.1 Opto Diode Details

2.3.2 Opto Diode Major Business

2.3.3 Opto Diode Lead Selenide (PbSe) Infrared Detector Product and Services

2.3.4 Opto Diode Lead Selenide (PbSe) Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.3.5 Opto Diode Recent Developments/Updates

2.4 Agiltron

2.4.1 Agiltron Details

2.4.2 Agiltron Major Business

2.4.3 Agiltron Lead Selenide (PbSe) Infrared Detector Product and Services

2.4.4 Agiltron Lead Selenide (PbSe) Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.4.5 Agiltron Recent Developments/Updates

2.5 Laser Components

2.5.1 Laser Components Details

2.5.2 Laser Components Major Business

2.5.3 Laser Components Lead Selenide (PbSe) Infrared Detector Product and Services

2.5.4 Laser Components Lead Selenide (PbSe) Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.5.5 Laser Components Recent Developments/Updates

2.6 Infrared Materials

2.6.1 Infrared Materials Details

2.6.2 Infrared Materials Major Business

- 2.6.3 Infrared Materials Lead Selenide (PbSe) Infrared Detector Product and Services
- 2.6.4 Infrared Materials Lead Selenide (PbSe) Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
- 2.6.5 Infrared Materials Recent Developments/Updates
- 2.7 Teledyne Judson
 - 2.7.1 Teledyne Judson Details
 - 2.7.2 Teledyne Judson Major Business
 - 2.7.3 Teledyne Judson Lead Selenide (PbSe) Infrared Detector Product and Services
 - 2.7.4 Teledyne Judson Lead Selenide (PbSe) Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 Teledyne Judson Recent Developments/Updates
- 2.8 Trinamix
 - 2.8.1 Trinamix Details
 - 2.8.2 Trinamix Major Business
 - 2.8.3 Trinamix Lead Selenide (PbSe) Infrared Detector Product and Services
 - 2.8.4 Trinamix Lead Selenide (PbSe) Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Trinamix Recent Developments/Updates
- 2.9 Zolix Instruments
 - 2.9.1 Zolix Instruments Details
 - 2.9.2 Zolix Instruments Major Business
 - 2.9.3 Zolix Instruments Lead Selenide (PbSe) Infrared Detector Product and Services
 - 2.9.4 Zolix Instruments Lead Selenide (PbSe) Infrared Detector Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Zolix Instruments Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: LEAD SELENIDE (PBSE) INFRARED DETECTOR BY MANUFACTURER

- 3.1 Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Lead Selenide (PbSe) Infrared Detector Revenue by Manufacturer (2021-2026)
- 3.3 Global Lead Selenide (PbSe) Infrared Detector Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
 - 3.4.1 Producer Shipments of Lead Selenide (PbSe) Infrared Detector by Manufacturer Revenue (\$MM) and Market Share (%): 2025
 - 3.4.2 Top 3 Lead Selenide (PbSe) Infrared Detector Manufacturer Market Share in

2025

3.4.3 Top 6 Lead Selenide (PbSe) Infrared Detector Manufacturer Market Share in 2025

3.5 Lead Selenide (PbSe) Infrared Detector Market: Overall Company Footprint Analysis

3.5.1 Lead Selenide (PbSe) Infrared Detector Market: Region Footprint

3.5.2 Lead Selenide (PbSe) Infrared Detector Market: Company Product Type Footprint

3.5.3 Lead Selenide (PbSe) Infrared Detector Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Lead Selenide (PbSe) Infrared Detector Market Size by Region

4.1.1 Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Region (2021-2032)

4.1.2 Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Region (2021-2032)

4.1.3 Global Lead Selenide (PbSe) Infrared Detector Average Price by Region (2021-2032)

4.2 North America Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032)

4.3 Europe Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032)

4.4 Asia-Pacific Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032)

4.5 South America Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032)

4.6 Middle East & Africa Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032)

5 MARKET SEGMENT BY TYPE

5.1 Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2032)

5.2 Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Type (2021-2032)

5.3 Global Lead Selenide (PbSe) Infrared Detector Average Price by Type (2021-2032)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2021-2032)
- 6.2 Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Application (2021-2032)
- 6.3 Global Lead Selenide (PbSe) Infrared Detector Average Price by Application (2021-2032)

7 NORTH AMERICA

- 7.1 North America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2032)
- 7.2 North America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2021-2032)
- 7.3 North America Lead Selenide (PbSe) Infrared Detector Market Size by Country
 - 7.3.1 North America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2021-2032)
 - 7.3.2 North America Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2021-2032)
 - 7.3.3 United States Market Size and Forecast (2021-2032)
 - 7.3.4 Canada Market Size and Forecast (2021-2032)
 - 7.3.5 Mexico Market Size and Forecast (2021-2032)

8 EUROPE

- 8.1 Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2032)
- 8.2 Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2021-2032)
- 8.3 Europe Lead Selenide (PbSe) Infrared Detector Market Size by Country
 - 8.3.1 Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2021-2032)
 - 8.3.2 Europe Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2021-2032)
 - 8.3.3 Germany Market Size and Forecast (2021-2032)
 - 8.3.4 France Market Size and Forecast (2021-2032)
 - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
 - 8.3.6 Russia Market Size and Forecast (2021-2032)

8.3.7 Italy Market Size and Forecast (2021-2032)

9 ASIA-PACIFIC

9.1 Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2032)

9.2 Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2021-2032)

9.3 Asia-Pacific Lead Selenide (PbSe) Infrared Detector Market Size by Region

9.3.1 Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity by Region (2021-2032)

9.3.2 Asia-Pacific Lead Selenide (PbSe) Infrared Detector Consumption Value by Region (2021-2032)

9.3.3 China Market Size and Forecast (2021-2032)

9.3.4 Japan Market Size and Forecast (2021-2032)

9.3.5 South Korea Market Size and Forecast (2021-2032)

9.3.6 India Market Size and Forecast (2021-2032)

9.3.7 Southeast Asia Market Size and Forecast (2021-2032)

9.3.8 Australia Market Size and Forecast (2021-2032)

10 SOUTH AMERICA

10.1 South America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2032)

10.2 South America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2021-2032)

10.3 South America Lead Selenide (PbSe) Infrared Detector Market Size by Country

10.3.1 South America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2021-2032)

10.3.2 South America Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2021-2032)

10.3.3 Brazil Market Size and Forecast (2021-2032)

10.3.4 Argentina Market Size and Forecast (2021-2032)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2032)

11.2 Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity by

Application (2021-2032)

11.3 Middle East & Africa Lead Selenide (PbSe) Infrared Detector Market Size by Country

11.3.1 Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2021-2032)

11.3.2 Middle East & Africa Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2021-2032)

11.3.3 Turkey Market Size and Forecast (2021-2032)

11.3.4 Egypt Market Size and Forecast (2021-2032)

11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)

11.3.6 South Africa Market Size and Forecast (2021-2032)

12 MARKET DYNAMICS

12.1 Lead Selenide (PbSe) Infrared Detector Market Drivers

12.2 Lead Selenide (PbSe) Infrared Detector Market Restraints

12.3 Lead Selenide (PbSe) Infrared Detector Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Lead Selenide (PbSe) Infrared Detector and Key Manufacturers

13.2 Manufacturing Costs Percentage of Lead Selenide (PbSe) Infrared Detector

13.3 Lead Selenide (PbSe) Infrared Detector Production Process

13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Lead Selenide (PbSe) Infrared Detector Typical Distributors

14.3 Lead Selenide (PbSe) Infrared Detector Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Channels, (USD Million), 2021 & 2025 & 2032

Table 3. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Detection Wavelength, (USD Million), 2021 & 2025 & 2032

Table 4. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Judson Basic Information, Manufacturing Base and Competitors

Table 6. Judson Major Business

Table 7. Judson Lead Selenide (PbSe) Infrared Detector Product and Services

Table 8. Judson Lead Selenide (PbSe) Infrared Detector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Judson Recent Developments/Updates

Table 10. N.E.P. Basic Information, Manufacturing Base and Competitors

Table 11. N.E.P. Major Business

Table 12. N.E.P. Lead Selenide (PbSe) Infrared Detector Product and Services

Table 13. N.E.P. Lead Selenide (PbSe) Infrared Detector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. N.E.P. Recent Developments/Updates

Table 15. Opto Diode Basic Information, Manufacturing Base and Competitors

Table 16. Opto Diode Major Business

Table 17. Opto Diode Lead Selenide (PbSe) Infrared Detector Product and Services

Table 18. Opto Diode Lead Selenide (PbSe) Infrared Detector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Opto Diode Recent Developments/Updates

Table 20. Agiltron Basic Information, Manufacturing Base and Competitors

Table 21. Agiltron Major Business

Table 22. Agiltron Lead Selenide (PbSe) Infrared Detector Product and Services

Table 23. Agiltron Lead Selenide (PbSe) Infrared Detector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Agiltron Recent Developments/Updates

Table 25. Laser Components Basic Information, Manufacturing Base and Competitors

Table 26. Laser Components Major Business

Table 27. Laser Components Lead Selenide (PbSe) Infrared Detector Product and Services

Table 28. Laser Components Lead Selenide (PbSe) Infrared Detector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Laser Components Recent Developments/Updates

Table 30. Infrared Materials Basic Information, Manufacturing Base and Competitors

Table 31. Infrared Materials Major Business

Table 32. Infrared Materials Lead Selenide (PbSe) Infrared Detector Product and Services

Table 33. Infrared Materials Lead Selenide (PbSe) Infrared Detector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. Infrared Materials Recent Developments/Updates

Table 35. Teledyne Judson Basic Information, Manufacturing Base and Competitors

Table 36. Teledyne Judson Major Business

Table 37. Teledyne Judson Lead Selenide (PbSe) Infrared Detector Product and Services

Table 38. Teledyne Judson Lead Selenide (PbSe) Infrared Detector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Teledyne Judson Recent Developments/Updates

Table 40. Trinamix Basic Information, Manufacturing Base and Competitors

Table 41. Trinamix Major Business

Table 42. Trinamix Lead Selenide (PbSe) Infrared Detector Product and Services

Table 43. Trinamix Lead Selenide (PbSe) Infrared Detector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Trinamix Recent Developments/Updates

Table 45. Zolix Instruments Basic Information, Manufacturing Base and Competitors

Table 46. Zolix Instruments Major Business

Table 47. Zolix Instruments Lead Selenide (PbSe) Infrared Detector Product and Services

Table 48. Zolix Instruments Lead Selenide (PbSe) Infrared Detector Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

- Table 49. Zolix Instruments Recent Developments/Updates
- Table 50. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Manufacturer (2021-2026) & (K Units)
- Table 51. Global Lead Selenide (PbSe) Infrared Detector Revenue by Manufacturer (2021-2026) & (USD Million)
- Table 52. Global Lead Selenide (PbSe) Infrared Detector Average Price by Manufacturer (2021-2026) & (US\$/Unit)
- Table 53. Market Position of Manufacturers in Lead Selenide (PbSe) Infrared Detector, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025
- Table 54. Head Office and Lead Selenide (PbSe) Infrared Detector Production Site of Key Manufacturer
- Table 55. Lead Selenide (PbSe) Infrared Detector Market: Company Product Type Footprint
- Table 56. Lead Selenide (PbSe) Infrared Detector Market: Company Product Application Footprint
- Table 57. Lead Selenide (PbSe) Infrared Detector New Market Entrants and Barriers to Market Entry
- Table 58. Lead Selenide (PbSe) Infrared Detector Mergers, Acquisition, Agreements, and Collaborations
- Table 59. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR
- Table 60. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Region (2021-2026) & (K Units)
- Table 61. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Region (2027-2032) & (K Units)
- Table 62. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Region (2021-2026) & (USD Million)
- Table 63. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Region (2027-2032) & (USD Million)
- Table 64. Global Lead Selenide (PbSe) Infrared Detector Average Price by Region (2021-2026) & (US\$/Unit)
- Table 65. Global Lead Selenide (PbSe) Infrared Detector Average Price by Region (2027-2032) & (US\$/Unit)
- Table 66. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2026) & (K Units)
- Table 67. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2027-2032) & (K Units)
- Table 68. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Type (2021-2026) & (USD Million)

Table 69. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Type (2027-2032) & (USD Million)

Table 70. Global Lead Selenide (PbSe) Infrared Detector Average Price by Type (2021-2026) & (US\$/Unit)

Table 71. Global Lead Selenide (PbSe) Infrared Detector Average Price by Type (2027-2032) & (US\$/Unit)

Table 72. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2021-2026) & (K Units)

Table 73. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2027-2032) & (K Units)

Table 74. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Application (2021-2026) & (USD Million)

Table 75. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Application (2027-2032) & (USD Million)

Table 76. Global Lead Selenide (PbSe) Infrared Detector Average Price by Application (2021-2026) & (US\$/Unit)

Table 77. Global Lead Selenide (PbSe) Infrared Detector Average Price by Application (2027-2032) & (US\$/Unit)

Table 78. North America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2026) & (K Units)

Table 79. North America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2027-2032) & (K Units)

Table 80. North America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2021-2026) & (K Units)

Table 81. North America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2027-2032) & (K Units)

Table 82. North America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2021-2026) & (K Units)

Table 83. North America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2027-2032) & (K Units)

Table 84. North America Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2021-2026) & (USD Million)

Table 85. North America Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2027-2032) & (USD Million)

Table 86. Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2026) & (K Units)

Table 87. Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2027-2032) & (K Units)

Table 88. Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application

(2021-2026) & (K Units)

Table 89. Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2027-2032) & (K Units)

Table 90. Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2021-2026) & (K Units)

Table 91. Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2027-2032) & (K Units)

Table 92. Europe Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2021-2026) & (USD Million)

Table 93. Europe Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2027-2032) & (USD Million)

Table 94. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2026) & (K Units)

Table 95. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2027-2032) & (K Units)

Table 96. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2021-2026) & (K Units)

Table 97. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2027-2032) & (K Units)

Table 98. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity by Region (2021-2026) & (K Units)

Table 99. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity by Region (2027-2032) & (K Units)

Table 100. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Consumption Value by Region (2021-2026) & (USD Million)

Table 101. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Consumption Value by Region (2027-2032) & (USD Million)

Table 102. South America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2026) & (K Units)

Table 103. South America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2027-2032) & (K Units)

Table 104. South America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2021-2026) & (K Units)

Table 105. South America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2027-2032) & (K Units)

Table 106. South America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2021-2026) & (K Units)

Table 107. South America Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2027-2032) & (K Units)

- Table 108. South America Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2021-2026) & (USD Million)
- Table 109. South America Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2027-2032) & (USD Million)
- Table 110. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2021-2026) & (K Units)
- Table 111. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity by Type (2027-2032) & (K Units)
- Table 112. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2021-2026) & (K Units)
- Table 113. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity by Application (2027-2032) & (K Units)
- Table 114. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2021-2026) & (K Units)
- Table 115. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity by Country (2027-2032) & (K Units)
- Table 116. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2021-2026) & (USD Million)
- Table 117. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Consumption Value by Country (2027-2032) & (USD Million)
- Table 118. Lead Selenide (PbSe) Infrared Detector Raw Material
- Table 119. Key Manufacturers of Lead Selenide (PbSe) Infrared Detector Raw Materials
- Table 120. Lead Selenide (PbSe) Infrared Detector Typical Distributors
- Table 121. Lead Selenide (PbSe) Infrared Detector Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Lead Selenide (PbSe) Infrared Detector Picture
- Figure 2. Global Lead Selenide (PbSe) Infrared Detector Revenue by Type, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Lead Selenide (PbSe) Infrared Detector Revenue Market Share by Type in 2025
- Figure 4. Cooled Type Examples
- Figure 5. Uncooled Type Examples
- Figure 6. Global Lead Selenide (PbSe) Infrared Detector Revenue by Channels, (USD Million), 2021 & 2025 & 2032
- Figure 7. Global Lead Selenide (PbSe) Infrared Detector Revenue Market Share by Channels in 2025
- Figure 8. Single Channel Examples
- Figure 9. Dual Channel Examples
- Figure 10. Quad Channel Examples
- Figure 11. Global Lead Selenide (PbSe) Infrared Detector Revenue by Detection Wavelength, (USD Million), 2021 & 2025 & 2032
- Figure 12. Global Lead Selenide (PbSe) Infrared Detector Revenue Market Share by Detection Wavelength in 2025
- Figure 13. Detection Wavelength 4.7 μ m Examples
- Figure 14. Detection Wavelength 5.0 μ m Examples
- Figure 15. Detection Wavelength 5.2 μ m Examples
- Figure 16. Global Lead Selenide (PbSe) Infrared Detector Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 17. Global Lead Selenide (PbSe) Infrared Detector Revenue Market Share by Application in 2025
- Figure 18. Automotive Examples
- Figure 19. Medical Examples
- Figure 20. Security Examples
- Figure 21. Industrial Examples
- Figure 22. Other Examples
- Figure 23. Global Lead Selenide (PbSe) Infrared Detector Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 24. Global Lead Selenide (PbSe) Infrared Detector Consumption Value and Forecast (2021-2032) & (USD Million)
- Figure 25. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity (2021-2032) &

(K Units)

Figure 26. Global Lead Selenide (PbSe) Infrared Detector Price (2021-2032) & (US\$/Unit)

Figure 27. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Manufacturer in 2025

Figure 28. Global Lead Selenide (PbSe) Infrared Detector Revenue Market Share by Manufacturer in 2025

Figure 29. Producer Shipments of Lead Selenide (PbSe) Infrared Detector by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 30. Top 3 Lead Selenide (PbSe) Infrared Detector Manufacturer (Revenue) Market Share in 2025

Figure 31. Top 6 Lead Selenide (PbSe) Infrared Detector Manufacturer (Revenue) Market Share in 2025

Figure 32. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Region (2021-2032)

Figure 33. Global Lead Selenide (PbSe) Infrared Detector Consumption Value Market Share by Region (2021-2032)

Figure 34. North America Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 35. Europe Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 36. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 37. South America Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 38. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 39. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Type (2021-2032)

Figure 40. Global Lead Selenide (PbSe) Infrared Detector Consumption Value Market Share by Type (2021-2032)

Figure 41. Global Lead Selenide (PbSe) Infrared Detector Average Price by Type (2021-2032) & (US\$/Unit)

Figure 42. Global Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Application (2021-2032)

Figure 43. Global Lead Selenide (PbSe) Infrared Detector Revenue Market Share by Application (2021-2032)

Figure 44. Global Lead Selenide (PbSe) Infrared Detector Average Price by Application (2021-2032) & (US\$/Unit)

Figure 45. North America Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Type (2021-2032)

Figure 46. North America Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Application (2021-2032)

Figure 47. North America Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Country (2021-2032)

Figure 48. North America Lead Selenide (PbSe) Infrared Detector Consumption Value Market Share by Country (2021-2032)

Figure 49. United States Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 50. Canada Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 51. Mexico Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 52. Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Type (2021-2032)

Figure 53. Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Application (2021-2032)

Figure 54. Europe Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Country (2021-2032)

Figure 55. Europe Lead Selenide (PbSe) Infrared Detector Consumption Value Market Share by Country (2021-2032)

Figure 56. Germany Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 57. France Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 58. United Kingdom Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 59. Russia Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 60. Italy Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 61. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Type (2021-2032)

Figure 62. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Application (2021-2032)

Figure 63. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Region (2021-2032)

Figure 64. Asia-Pacific Lead Selenide (PbSe) Infrared Detector Consumption Value

Market Share by Region (2021-2032)

Figure 65. China Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 66. Japan Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 67. South Korea Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 68. India Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 69. Southeast Asia Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 70. Australia Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 71. South America Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Type (2021-2032)

Figure 72. South America Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Application (2021-2032)

Figure 73. South America Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Country (2021-2032)

Figure 74. South America Lead Selenide (PbSe) Infrared Detector Consumption Value Market Share by Country (2021-2032)

Figure 75. Brazil Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 76. Argentina Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 77. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Type (2021-2032)

Figure 78. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Application (2021-2032)

Figure 79. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Sales Quantity Market Share by Country (2021-2032)

Figure 80. Middle East & Africa Lead Selenide (PbSe) Infrared Detector Consumption Value Market Share by Country (2021-2032)

Figure 81. Turkey Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 82. Egypt Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 83. Saudi Arabia Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 84. South Africa Lead Selenide (PbSe) Infrared Detector Consumption Value (2021-2032) & (USD Million)

Figure 85. Lead Selenide (PbSe) Infrared Detector Market Drivers

Figure 86. Lead Selenide (PbSe) Infrared Detector Market Restraints

Figure 87. Lead Selenide (PbSe) Infrared Detector Market Trends

Figure 88. Porters Five Forces Analysis

Figure 89. Manufacturing Cost Structure Analysis of Lead Selenide (PbSe) Infrared Detector in 2025

Figure 90. Manufacturing Process Analysis of Lead Selenide (PbSe) Infrared Detector

Figure 91. Lead Selenide (PbSe) Infrared Detector Industrial Chain

Figure 92. Sales Channel: Direct to End-User vs Distributors

Figure 93. Direct Channel Pros & Cons

Figure 94. Indirect Channel Pros & Cons

Figure 95. Methodology

Figure 96. Research Process and Data Source

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