

Global PbSe Infrared Detector Single Element 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 PbSe Infrared Detector Single Element market size was valued at US\$ 1.08 million in 2025 and is forecast to a readjusted size of US\$ 1.4 million by 2032 with a CAGR of 3.8% during review period.

PbSe Infrared Detector Single Element is an infrared photodetector based on lead selenide material. Lead selenide is a semiconductor material with unique photoelectric properties, which can show strong absorption and response in the infrared spectrum (especially in the mid-infrared region). The working principle of PbSe infrared detector unit is usually based on the photoconductivity effect or the photovoltaic effect, which can convert the received infrared radiation energy into an electrical signal, thereby realizing the detection and measurement of infrared radiation.

The market concentration is high.

The EU RoHS3 directive restricts the use of certain hazardous substances in electrical and electronic equipment. It regulates the use and introduction of hazardous substances in electrical and electronic components. RoHS stands for the Restriction of Hazardous Substances Directive, which refers to the restriction of the use of hazardous substances such as lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB) and polybrominated diphenyl ethers (PBDE).

Exemption 1c (Annex IV of EU Directive 2011/65/EU) currently applies to the use of lead in infrared detectors.

1. Medical technology - Exemption provisions, for the use of lead in infrared detectors,

the exemption applies until July 21, 2023, as long as these detectors are used in medical monitoring and control equipment.

2. Industry - Exemption provisions, for the use of lead in infrared detectors, the exemption is available until July 21, 2024, as long as these detectors are used in industrial monitoring and control equipment.

3. Other - For other applications that do not fall under item 1 or 2 above, such as consumer and automotive applications, an exemption is available until July 21, 2024 for the use of lead in infrared detectors not used in medical technology or industrial monitoring and control equipment.

This report is a detailed and comprehensive analysis for global PbSe Infrared Detector Single Element 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 PbSe Infrared Detector Single Element market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

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

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

Global PbSe Infrared Detector Single Element market shares of main players, shipments in revenue (\$ Million), sales quantity (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 PbSe Infrared Detector Single Element

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 PbSe Infrared Detector Single Element 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 Opto Diode, Infrared Materials, Inc, NIT, NEP, Laser Components, Agiltron, Idetector Electronic, TrinamiX, etc.

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

Market Segmentation

PbSe Infrared Detector Single Element 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

Uncooled

Market segment by Application

Industrial

Medical

Military

Others

Major players covered

Opto Diode

Infrared Materials, Inc

NIT

NEP

Laser Components

Agiltron

Idetector Electronic

TrinamiX

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 PbSe Infrared Detector Single Element product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the PbSe Infrared Detector Single Element 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 PbSe Infrared Detector Single Element 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 PbSe Infrared Detector Single Element.

Chapter 14 and 15, to describe PbSe Infrared Detector Single Element sales channel, distributors, customers, research findings and conclusion.

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