

Global Lead Selenide (PbSe) Infrared Detector Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Lead Selenide (PbSe) Infrared Detector market size is expected to reach \$ 490 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

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 studies the global Lead Selenide (PbSe) Infrared Detector production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lead Selenide (PbSe) Infrared Detector and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lead Selenide (PbSe) Infrared Detector that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lead Selenide (PbSe) Infrared Detector total production and demand, 2021-2032, (K Units)

Global Lead Selenide (PbSe) Infrared Detector total production value, 2021-2032, (USD Million)

Global Lead Selenide (PbSe) Infrared Detector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Lead Selenide (PbSe) Infrared Detector consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Lead Selenide (PbSe) Infrared Detector domestic production, consumption, key domestic manufacturers and share

Global Lead Selenide (PbSe) Infrared Detector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Lead Selenide (PbSe) Infrared Detector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Lead Selenide (PbSe) Infrared Detector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lead Selenide (PbSe) Infrared Detector market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Lead Selenide (PbSe) Infrared Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lead Selenide (PbSe) Infrared Detector Market, Segmentation by Type:

Cooled Type

Uncooled Type

Global Lead Selenide (PbSe) Infrared Detector Market, Segmentation by Channels:

Single Channel

Dual Channel

Quad Channel

Global Lead Selenide (PbSe) Infrared Detector Market, Segmentation by Detection Wavelength:

Detection Wavelength 4.7 μ m

Detection Wavelength 5.0 μ m

Detection Wavelength 5.2 μ m

Global Lead Selenide (PbSe) Infrared Detector Market, Segmentation by Application:

Automotive

Medical

Security

Industrial

Other

Companies Profiled:

Judson

N.E.P.

Opto Diode

Agiltron

Laser Components

Infrared Materials

Teledyne Judson

Trinamix

Zolix Instruments

Key Questions Answered:

1. How big is the global Lead Selenide (PbSe) Infrared Detector market?
2. What is the demand of the global Lead Selenide (PbSe) Infrared Detector market?
3. What is the year over year growth of the global Lead Selenide (PbSe) Infrared Detector market?
4. What is the production and production value of the global Lead Selenide (PbSe) Infrared Detector market?
5. Who are the key producers in the global Lead Selenide (PbSe) Infrared Detector market?
6. What are the growth factors driving the market demand?

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