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Global Single-Crystal Diamond Detector Market Growth 2026-2032

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Abstracts

The global Single-Crystal Diamond Detector market size is predicted to grow from US$ 168 million in 2025 to US$ 305 million in 2032; it is expected to grow at a CAGR of 9.0% from 2026 to 2032.

A Single-Crystal Diamond Detector (SCDD) is a high-performance solid-state radiation detector made from single-crystal synthetic diamond, typically grown by Chemical Vapor Deposition (CVD). Because diamond has exceptional electronic, thermal, and radiation-hard properties, SCDDs are used for detecting charged particles, X-rays, gamma rays, UV photons, and high-energy ion beams in environments where conventional semiconductor detectors (e.g., silicon, germanium) cannot operate reliably.

In 2024, global Single-Crystal Diamond Detector sales volume reached approximately 57.1 k units, with an average global market price of around 2810 US$ per unit.

The Single-Crystal Diamond Detector (SCDD) industry chain begins upstream with the production of ultra-high-purity single-crystal diamond substrates, primarily grown by chemical vapor deposition (CVD) using microwave plasma reactors. This stage requires highly specialized equipment, high-purity carbon precursors, vacuum systems, and growth technologies controlled by a small number of suppliers. Upstream also includes electrode metallization materials (Ti/Pt/Au), photolithography processes, and packaging substrates for detector assembly. The midstream segment consists of detector chip fabrication—diamond polishing, doping control, defect reduction, electrode deposition, device patterning, and encapsulation—followed by integration of readout electronics and signal-processing ASICs. This is dominated by advanced semiconductor and sensor manufacturers serving high-energy physics, synchrotron facilities, medical dosimetry, aerospace, and industrial radiation-monitoring markets. The downstream segment

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includes system integrators and end-users such as particle accelerators (CERN, KEK, DESY), synchrotron beamlines, XFEL facilities, radiotherapy equipment manufacturers, nuclear instrumentation companies, aerospace agencies, and industrial NDT providers, which embed SCDDs into beam monitors.

United States market for Single-Crystal Diamond Detector is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Single-Crystal Diamond Detector is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Single-Crystal Diamond Detector is estimated to increase from US$ million in 2025 to US$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Single-Crystal Diamond Detector players cover Applied Diamond, Micron Semiconductor, IMAT, PTW Dosimetry, Cividec, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Single-Crystal Diamond 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 Single-Crystal Diamond Detector portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Single-Crystal Diamond Detector market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Single-Crystal Diamond Detector and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging

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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 Single-Crystal Diamond Detector.

This report presents a comprehensive overview, market shares, and growth opportunities of Single-Crystal Diamond Detector market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

General Purpose ABS

Specialty ABS

Segmentation by Product:

Planar Diamond Detector

Thin-Film Diamond Detector

Other

Segmentation by Application:

Medical

Industrial

Other

This report also splits the market by region:

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Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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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.

Applied Diamond

Micron Semiconductor

IMAT

PTW Dosimetry

Cividec

AJAX Detector

Beijing Wahenyida Science & Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Single-Crystal Diamond Detector market?

What factors are driving Single-Crystal Diamond Detector market growth, globally and by region?

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

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How do Single-Crystal Diamond Detector market opportunities vary by end market size?

How does Single-Crystal Diamond Detector break out by Type, by Application?

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