

Global Semiconductor Radiation Detector Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Semiconductor Radiation Detector market size will reach 419.77 Million USD in 2025 and is projected to reach 615.92 Million USD by 2032, with a CAGR of 5.63% (2025-2032). Notably, the China Semiconductor Radiation Detector market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A semiconductor radiation detector is a specialized device used to detect and measure ionizing radiation by exploiting the interactions between radiation particles and semiconductor materials. These detectors typically consist of a semiconductor crystal, such as silicon or germanium, with electrodes attached to it to collect the charge generated by radiation interactions. When ionizing radiation interacts with the semiconductor material, it produces electron-hole pairs, generating an electrical signal proportional to the energy deposited by the radiation. Semiconductor radiation detectors offer high sensitivity, fast response times, and excellent energy resolution, making them valuable tools in various applications such as nuclear medicine, environmental monitoring, security screening, and scientific research. Their compact size, low power requirements, and ability to operate at room temperature make semiconductor radiation detectors versatile and widely used across different fields.

The major global manufacturers of Semiconductor Radiation Detector include Mirion Technologies, AMETEK (Ortec), Hitachi, Thermo Fisher, Kromek, Oxford Instruments,

Rayspec, Cnnc China Nuclear Control System Engineering, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Semiconductor Radiation Detector. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Semiconductor Radiation Detector market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Semiconductor Radiation Detector market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Semiconductor Radiation Detector industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Semiconductor Radiation Detector Include:

Mirion Technologies

AMETEK (Ortec)

Hitachi

Thermo Fisher

Kromek

Oxford Instruments

Rayspec

Cnnc China Nuclear Control System Engineering

Semiconductor Radiation Detector Product Segment Include:

Silicon Detector

Germanium Detector

Others

Semiconductor Radiation Detector Product Application Include:

Environmental and Safety Monitoring

Medical Industry

Industrial Testing

Military and Homeland Security

Others

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