

Global Silicon Drift Detectors Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Silicon Drift Detectors market size was valued at US\$ 48.7 million in 2024 and is forecast to a readjusted size of USD 73.2 million by 2031 with a CAGR of 6.1% during review period.

Silicon Drift Detector (SDD) is a type of semiconductor detector used to detect X-rays. It is a large area of uniform pn junction prepared on the ray incident surface of a high-purity n-type silicon wafer, a point-shaped n-type anode prepared in the center of the other side, and many concentric p-type drift electrodes around the anode. When working, a reverse voltage is applied to the pn junctions on both sides of the device, thereby generating a potential well (for electrons) in the device body. Applying a potential difference to the drift electrode will generate a transverse electric field in the device, which will bend the potential well and force the signal electrons generated by the incident radiation to drift toward the anode under the action of the electric field, and reach the anode (readout electrode) to generate a signal. SDD is widely used in fields such as energy dispersive X-ray fluorescence spectrometer (XRF) or X-ray energy spectrometer (EDS) due to its high energy resolution, fast response and low noise, especially in X-ray detection occasions requiring high resolution and high sensitivity.

The market drivers of silicon drift detectors are complex and diverse. Here are some of the main market drivers:

Aging population: With the aging of the global population, the demand for medical services continues to increase. As a key component of medical imaging equipment, the market demand for silicon drift detectors has also increased. Especially in the field of medical imaging diagnosis, SDD provides doctors with more accurate diagnostic basis

due to its high resolution and sensitivity.

Increasing government investment in medical and health care: Governments of various countries are increasing their investment in medical and health care to improve medical standards and the quality of medical services. This has promoted the updating and upgrading of medical equipment and provided strong support for the development of the silicon drift detector market. Government investment is not only used to purchase advanced medical equipment, but also includes the construction and transformation of medical and health infrastructure, which provides a guarantee for the market demand for SDD.

Scientific and technological progress promotes the research and development and application of new medical equipment: With the advancement of science and technology, the research and development and application of new medical equipment are accelerating. As a new generation of X-ray detectors, silicon drift detectors have many advantages that traditional detectors cannot match. Therefore, they have been widely used in medical imaging, material analysis and other fields.

Patients' pursuit of high-quality diagnosis and treatment experience: With the improvement of living standards, patients' requirements for medical services are getting higher and higher. They hope to obtain a more accurate, fast and comfortable diagnosis and treatment experience. Silicon drift detectors can meet this demand of patients due to their high resolution, fast response and low noise, thereby improving the satisfaction and reputation of medical services.

In summary, the market driving factors of silicon drift detectors mainly include the aging of the population, the government's increased investment in medical and health care, the development and application of new medical equipment promoted by scientific and technological progress, and the pursuit of high-quality diagnosis and treatment experience by patients. These factors have jointly promoted the rapid development of the silicon drift detector market.

This report is a detailed and comprehensive analysis for global Silicon Drift Detectors 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 Silicon Drift Detectors market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2020-2031

Global Silicon Drift Detectors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2020-2031

Global Silicon Drift Detectors market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K USD/Unit), 2020-2031

Global Silicon Drift Detectors market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K USD/Unit), 2020-2025

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 Silicon Drift Detectors

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

To forecast future factors affecting the marketplace

This report profiles key players in the global Silicon Drift Detectors 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 Ketek, Hitachi High-Technologies, Thermo Fisher, Burker, AMETEK, Oxford Instruments, RaySpec, PNDetector, Mirion Technologies, etc.

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

Market Segmentation

Silicon Drift Detectors market is split by Type and by Application. For the period 2020-2031, 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

Based on Concentric Rings

Based on Droplet Rings

Market segment by Application

Electron Microscopy

X-ray Fluorescence

Others

Major players covered

Ketek

Hitachi High-Technologies

Thermo Fisher

Burker

AMETEK

Oxford Instruments

RaySpec

PNDetector

Mirion Technologies

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 Silicon Drift Detectors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Silicon Drift Detectors, with price, sales quantity, revenue, and global market share of Silicon Drift Detectors from 2020 to 2025.

Chapter 3, the Silicon Drift Detectors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Silicon Drift Detectors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Silicon Drift Detectors market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Silicon Drift Detectors.

Chapter 14 and 15, to describe Silicon Drift Detectors sales channel, distributors, customers, research findings and conclusion.

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