

# Global Fast Neutron Detector Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Fast Neutron Detector market size was valued at US\$ 330 million in 2025 and is forecast to a readjusted size of US\$ 543 million by 2032 with a CAGR of 7.2% during review period.

A fast neutron detector is a specialized device used to identify, count, and measure the energy of fast neutrons—those with energies exceeding 1 MeV, which are hard to detect directly due to their neutral charge and weak ionization. It works by leveraging interactions between fast neutrons and sensitive materials (such as proton recoil or nuclear fission reactions) to generate detectable signals, and is widely applied in nuclear energy, nuclear security, aerospace, and scientific research fields.

The industrial chain of fast neutron detectors comprises three interconnected parts: upstream, midstream, and downstream. Upstream mainly supplies core raw materials (neutron-sensitive materials like boron-10 and lithium-6, high-precision electronic components) and auxiliary materials, which determine the basic performance of detectors. Midstream focuses on the R&D, production, assembly, and calibration of detectors, involving key technologies such as sensitive element processing and signal conversion. Downstream covers application fields including nuclear power plants (operation monitoring), nuclear security (nuclear material detection), scientific research, and aerospace, whose demand directly drives the development of the entire industrial chain.

The cost structure of fast neutron detectors has distinct weight distributions: core sensitive materials account for 35%-45% of the total cost, the largest share, due to their high preparation difficulty and limited supply. Key electronic components make up

20%-28%, ensuring detection accuracy and stability. Manufacturing and assembly costs account for 15%-22%, including precision processing and calibration fees. R&D costs take up 8%-15%, invested in technological innovation and product iteration, while other costs (packaging, quality inspection, transportation) account for the remaining 5%-10%.

The demand for fast neutron detectors is showing steady growth, driven by the global nuclear energy renaissance, stricter nuclear security regulations, and advances in scientific research and aerospace exploration. Business opportunities mainly lie in the R&D of alternative sensitive materials (to address shortages of traditional materials), the innovation of miniaturized and intelligent detectors to meet diverse scenario needs, and the expansion into emerging markets with increasing nuclear detection demands.

This report is a detailed and comprehensive analysis for global Fast Neutron Detector market. Both quantitative and qualitative analyses are presented by company, by region & country, by Detection Principle 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 Fast Neutron Detector market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Fast Neutron Detector market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Fast Neutron Detector market size and forecasts, by Detection Principle and by Application, in consumption value (\$ Million), 2021-2032

Global Fast Neutron Detector market shares of main players, in revenue (\$ Million), 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 Fast Neutron Detector

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 Fast Neutron Detector market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Arktis Radiation Detectors, Inrad Optics, Ludlum Measurements, Mirion Technologies, Symetrica, Reuter-Stokes, Exosens, Proportional Technologies, Bubble Technology Industries (BTI), Kromek, etc.

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

### **Market segmentation**

Fast Neutron Detector market is split by Detection Principle and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Detection Principle and by Application. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Detection Principle

Proton-Recoil Fast Neutron Detector

Scintillation Fast Neutron Detector

Gaseous Fast Neutron Detector

#### Market segment by Converter Material

Helium-4 Based Fast Neutron Detector

Lithium-Coated Fast Neutron Detector

Boron-Based Fast Neutron Detector

#### Market segment by Product Structure

Flat Panel Fast Neutron Detector

Modular Fast Neutron Detector

Compact Fast Neutron Detector

#### Market segment by Application

Nuclear Safeguards and Security

Industrial Process and Oil & Gas

Research Laboratories and Universities

Defense and Homeland Security

Others

#### Market segment by players, this report covers

Arktis Radiation Detectors

Inrad Optics

Ludlum Measurements

Mirion Technologies

Symetrica

Reuter-Stokes

Exosens

Proportional Technologies

Bubble Technology Industries (BTI)

Kromek

Scionix

Eljen Technology

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Fast Neutron Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Fast Neutron Detector, with revenue, gross margin, and global market share of Fast Neutron Detector from 2021 to 2026.

Chapter 3, the Fast Neutron Detector competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Detection Principle and by Application, with consumption value and growth rate by Detection Principle, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Fast

Neutron Detector market forecast, by regions, by Detection Principle and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Fast Neutron Detector.

Chapter 13, to describe Fast Neutron Detector research findings and conclusion.

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