

Global Fast Neutron Detector Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fast Neutron Detector market size is expected to reach \$ 543 million by 2032, rising at a market growth of 7.2% CAGR during the forecast period (2026-2032).

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 studies the global Fast Neutron Detector demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fast Neutron 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 Fast Neutron Detector that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fast Neutron Detector total market, 2021-2032, (USD Million)

Global Fast Neutron Detector total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Fast Neutron Detector total market, key domestic companies, and share, (USD Million)

Global Fast Neutron Detector revenue by player, revenue and market share 2021-2026, (USD Million)

Global Fast Neutron Detector total market by Detection Principle, CAGR, 2021-2032, (USD Million)

Global Fast Neutron Detector total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Fast Neutron Detector market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Detection Principle, 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 Fast Neutron Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fast Neutron Detector Market, Segmentation by Detection Principle:

Proton-Recoil Fast Neutron Detector

Scintillation Fast Neutron Detector

Gaseous Fast Neutron Detector

Global Fast Neutron Detector Market, Segmentation by Converter Material:

Helium-4 Based Fast Neutron Detector

Lithium-Coated Fast Neutron Detector

Boron-Based Fast Neutron Detector

Global Fast Neutron Detector Market, Segmentation by Product Structure:

Flat Panel Fast Neutron Detector

Modular Fast Neutron Detector

Compact Fast Neutron Detector

Global Fast Neutron Detector Market, Segmentation by Application:

Nuclear Safeguards and Security

Industrial Process and Oil & Gas

Research Laboratories and Universities

Defense and Homeland Security

Others

Companies Profiled:

Arktis Radiation Detectors

Inrad Optics

Ludlum Measurements

Mirion Technologies

Symetrica

Reuter-Stokes

Exosens

Proportional Technologies

Bubble Technology Industries (BTI)

Kromek

Scionix

Eljen Technology

Key Questions Answered

1. How big is the global Fast Neutron Detector market?
2. What is the demand of the global Fast Neutron Detector market?
3. What is the year over year growth of the global Fast Neutron Detector market?
4. What is the total value of the global Fast Neutron Detector market?
5. Who are the Major Players in the global Fast Neutron Detector market?
6. What are the growth factors driving the market demand?

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