

Global CdZnTe Detector Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CdZnTe Detector market size is expected to reach \$ 591 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

The zinc cadmium telluride (CdTe) detector is a room-temperature radiation detector based on the zinc cadmium telluride semiconductor material. It achieves high-precision measurement of radiation energy and intensity by directly converting incident X-rays or gamma rays into electrical signals. Its characteristics include a high atomic number (high Z), high density, and a wide bandgap (approximately 1.6 eV), enabling it to maintain excellent energy resolution and detection efficiency without the need for cryogenic cooling. It is widely used in medical imaging (such as SPECT/CT), nuclear safety monitoring, industrial non-destructive testing, and astronomical exploration.

The cadmium telluride (Cd/Zn) detector industry chain can be divided into upstream raw materials and crystal growth (such as Cd/Zn crystals, high-purity tellurium/cadmium/zinc elements, with a gross profit margin of approximately 20%-40%), midstream device manufacturing and module integration (crystal cutting, polishing, electrode preparation, and ASIC integration of readout circuits, with high technological barriers and a gross profit margin of approximately 40%-60%), and downstream system applications (medical imaging such as SPECT/CT, nuclear radiation detection, security inspection equipment, etc., with system integration and solutions having a gross profit margin of approximately 30%-50%). Overall, the midstream detector chip and module segment has the highest added value and is the core of the industry chain's profit. Upstream materials are constrained by yield and scale, while downstream gross profit fluctuates due to project-based and equipment integration factors.

In 2025, the average price of a Cd/Zn detector was US\$9,500 per unit, with sales of

37,800 units, and a total production capacity of 54,000 units.

Based on the direct conversion properties of zinc cadmium telluride, zinc cadmium telluride detectors can achieve high-energy-resolution detection of X-rays and gamma rays at room temperature, and are considered an important development direction in the field of high-end radiation detection. With the increasing demand for medical imaging (especially photon counting CT), nuclear safety and industrial non-destructive testing, its penetration rate is continuously rising. However, due to the difficulty of crystal growth, size limitations and high costs, it will still be mainly in the high-end market in the short term. In the long term, it is expected to reduce costs through process optimization and large-scale production, thereby expanding to a wider range of application scenarios.

This report studies the global CdZnTe Detector production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global CdZnTe Detector total production and demand, 2021-2032, (K Units)

Global CdZnTe Detector total production value, 2021-2032, (USD Million)

Global CdZnTe Detector production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global CdZnTe Detector consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: CdZnTe Detector domestic production, consumption, key domestic manufacturers and share

Global CdZnTe Detector production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global CdZnTe Detector production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global CdZnTe Detector production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global CdZnTe Detector market based on the following parameters - company overview, production, value, price, gross margin,

product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Kromek(UK), Redlen Technologies(CA), H3D(US), Mirion Technologies(US), GE HealthCare(US), Spectrum Dynamics Medical(US), Teledyne FLIR(US), Radiation Detection Technologies(US), Prosun Semiconductor(CN), Shaanxi Imdetek(CN), 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 CdZnTe Detector market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, 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 CdZnTe Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CdZnTe Detector Market, Segmentation by Type:

Low Security: False Acceptance Rate $>1\%$

Medium Security: False Acceptance Rate $0.1\% \text{--} 1\%$

High Security: False Acceptance Rate $0.01\% \text{--} 0.1\%$

Ultra-High Security: False Acceptance Rate

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