

Global CZT Radiation Detector Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global CZT Radiation Detector market size is expected to reach \$ 97.8 million by 2029, rising at a market growth of 6.6% CAGR during the forecast period (2023-2029).

Global 5 largest manufacturers of CZT Radiation Detector are Redlen Technologies, Mirion Technologies, Kromek, Imdetek and XZ LAB, which make up over 60%. Among them, Redlen Technologies is the leader with about 24% market share.

North America is the largest market, with a share about 40%, followed by Europe and Asia-Pacific, with the share about 26% and 24%. In terms of product type, Spectroscopy Grade occupies the largest share of the total market, about 60%. And in terms of application, the largest application is Medical, followed by Industrial.

Cadmium Zinc Telluride (CZT) is used in the production of radiation detectors (x-ray and gamma-ray) that do not require cooling and obtain excellent resolution by directly converting radiation into an electrical signal. High purity raw materials (cadmium, tellurium and zinc) are required to manufacture this type of detector. Cadmium zinc telluride (CZT) radiation detector is a new type of semiconductor detector, which has the advantages of high atomic number, wide band gap and high density (effective atomic number 50, density 5.81 g/cm³, $E_g=1.6\text{eV}$), etc. It is beneficial to the detection and analysis of low-energy X-rays and g-rays.

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

This report is a detailed and comprehensive analysis of the world market for CZT Radiation Detector, and provides market size (US\$ million) and Year-over-Year (YoY)

Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of CZT Radiation Detector that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CZT Radiation Detector total production and demand, 2018-2029, (Units)

Global CZT Radiation Detector total production value, 2018-2029, (USD Million)

Global CZT Radiation Detector production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global CZT Radiation Detector consumption by region & country, CAGR, 2018-2029 & (Units)

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

Global CZT Radiation Detector production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Units)

Global CZT Radiation Detector production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Units)

Global CZT Radiation Detector production by Application production, value, CAGR, 2018-2029, (USD Million) & (Units).

This reports profiles key players in the global CZT Radiation 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 Redlen Technologies, Mirion Technologies, Kromek, Imdetek, XZ LAB, ZRF Ritec SIA, Baltic Scientific Instruments (BSI) and Eurorad, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World CZT Radiation Detector market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global CZT Radiation Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CZT Radiation Detector Market, Segmentation by Type

Counter Grade

Spectroscopy Grade

Global CZT Radiation Detector Market, Segmentation by Application

Medical

Industrial

Others

Companies Profiled:

Redlen Technologies

Mirion Technologies

Kromek

Imdetek

XZ LAB

ZRF Ritec SIA

Baltic Scientific Instruments (BSI)

Eurorad

Key Questions Answered

1. How big is the global CZT Radiation Detector market?
2. What is the demand of the global CZT Radiation Detector market?
3. What is the year over year growth of the global CZT Radiation Detector market?
4. What is the production and production value of the global CZT Radiation Detector market?
5. Who are the key producers in the global CZT Radiation Detector market?
6. What are the growth factors driving the market demand?

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