

X-Ray Detector Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global X-ray detector market size reached US\$ 3.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 4.4 Billion by 2028, exhibiting a growth rate (CAGR) of 5.4% during 2023-2028.

X-rays are a form of electromagnetic radiation used to produce images of internal tissues, bones, and organs on film or digital media. They are utilized in various diagnostic procedures, such as arteriograms, computed tomography (CT) scans, fluoroscopy, mammography, and angiography. They aid in the noninvasive and painless diagnosis of diseases, monitoring of therapies, and planning of medical and surgical treatments. They also assist medical personnel in implanting catheters, stents, and other devices into the bodies of the patients to treat malignancies and remove blood clots and other blockages. At present, there is a rise in the employment of x-ray detectors in the healthcare industry to measure the flux, spectrum, and spatial distribution of x-rays.

X-Ray Detector Market Trends:

The growing awareness among the masses about the radiography system, along with the escalating demand for early diagnosis, represents one of the key factors driving the market. Moreover, the introduction of effective x-ray devices, such as filmless imaging machines, which are used in faster examination and treatment of diseases compared to conventional radiography, is positively influencing the market. Additionally, the rising demand for portable medical devices and small area flat panel detectors is propelling the growth of the market. In addition, the growing investments by venture capitalist firms in generating substantial returns on invested capital in a relatively short period of time is

catalyzing the demand for x-ray detectors across the globe. Besides this, the increasing usage of diagnostic imaging facilities to facilitate chest x-rays, especially after the outbreak of coronavirus disease (COVID-19) pandemic, is offering lucrative growth opportunities to industry investors. Apart from this, key market players are extensively investing in research and development (R&D) activities to introduce advanced wireless x-ray detectors.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global X-ray detector market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, portability and application.

Breakup by Type:

- Flat Panel Detectors
 - Indirect Flat Panel Detectors
 - Direct Flat Panel Detectors
- Computed Radiography (CR) Detectors
- Charge Coupled Device Detectors
- Others

Breakup by Portability:

- Fixed Detectors
- Portable Detectors

Breakup by Application:

- Medical
- Dental
- Security
- Industrial
- Others

Breakup by Region:

- North America
 - United States

Canada
Asia-Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Agfa-Gevaert N.V., Analogic Corporation, Canon Inc., Carestream Health, Detection Technology Plc, FUJIFILM Holdings Corporation, Hamamatsu Photonics K.K, Konica Minolta Inc., Koninklijke Philips N.V., Rayence Co. Ltd., Rigaku Corporation, Teledyne Technologies Inc., Thales Group and Varex Imaging Corporation.

Key Questions Answered in This Report:

How has the global X-ray detector market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global X-ray detector market?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the portability?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global X-ray detector market and who are the key players?

What is the degree of competition in the industry?

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