

Dosimeter Market Report by Type (Electronic Personal Dosimeter (EPD), Thermoluminescent Dosimeter (TLD), Optically Stimulated Luminescence Dosimeter (OSLD), Film Badge Dosimeter, and Others), Application (Active, Passive), End Use Industry (Healthcare, Oil and Gas, Mining, Manufacturing, and Others), and Region 2025-2033

Market Report | 2025-10-01 | 141 pages | IMARC Group

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Report description:

The global dosimeter market size reached USD 3.2 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 5.4 Billion by 2033, exhibiting a growth rate (CAGR) of 6% during 2025-2033.

A dosimeter is a calibration instrument used for the monitoring and measurement of the exposure to high-energy X-ray, beta and gamma radiations. Some of the commonly available dosimeters include electronic personal, thermo luminescent, optically stimulated luminescent and film badge dosimeters. They monitor the dose of ionizing radiation and send a visual or auditory alert once the acceptable limits are exceeded. They are widely used by medical practitioners and industrial workers that are exposed to harmful rays and toxic gases for a prolonged period. They are also utilized in cancer treatments and administering specific and targeted amounts of radiation to neutralize malignant cells. As a result, they are widely used in nuclear research facilities, power plants and medical laboratories.

Dosimeter Market Trends:

The increasing demand for radiation monitoring devices across industries, such as medical, oil and gas, defense and mining, is one of the key factors driving the growth of the market. Moreover, the widespread utilization of radioactive substances for industrial applications is providing a thrust to the market growth. Dosimeters are used for analyzing the exposure to radiation during power production, industrial processing and medical research and processing. In line with this, the widespread adoption of

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personal dosimeters for the monitoring of radiations from smartphones, computers and tablets is also contributing to the growth of the market. Additionally, various product innovations, such as the launch of portable, durable and cost-effective variants, are acting as other growth-inducing factors. Product manufacturers are also developing automated readers, electronic radiation measuring instruments and alarm badges for accurate monitoring. Other factors, including the implementation of favorable government policies promoting workforce and occupational safety, along with extensive research and development (R&D) activities, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global dosimeter market report, along with forecasts at the global, regional and country level from 2025-2033. Our report has categorized the market based on type, application and end use industry.

Breakup by Type:

- Electronic Personal Dosimeter (EPD)
- Thermoluminescent Dosimeter (TLD)
- Optically Stimulated Luminescence Dosimeter (OSLD)
- Film Badge Dosimeter
- Others

Breakup by Application:

- Active
- Passive

Breakup by End Use Industry:

- Healthcare
- Oil and Gas
- Mining
- Manufacturing
- Others

Breakup by Region:

- North America
 - o□ United States
 - o□ Canada
- Asia-Pacific
 - o□ China
 - o□ Japan
 - o□ India
 - o□ South Korea
 - o□ Australia
 - o□ Indonesia
 - o□ Others
- Europe
 - o□ Germany
 - o□ France
 - o□ United Kingdom
 - o□ Italy
 - o□ Spain

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- o Russia
- o Others
- Latin America
- o Brazil
- o Mexico
- o 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 ATOMTEX, Fuji Electric Co. Ltd., IBA Worldwide, Landauer Inc. (Fortive), Ludlum Measurements Inc., Mirion Technologies Inc., Polimaster Inc., Radiation Detection Company, S.E. International Inc, Thermo Fisher Scientific Inc., Tracerco (Johnson Matthey) and Unfors RaySafe AB (Fluke Biomedical LLC).

Key Questions Answered in This Report:

- How has the global dosimeter market performed so far and how will it perform in the coming years?
- What has been the impact of COVID-19 on the global dosimeter 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 application?
- What is the breakup of the market based on the end use industry?
- 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 dosimeter market and who are the key players?
- What is the degree of competition in the industry?

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