Dosimeter Market Projected to Garner Significant Revenues By 2032

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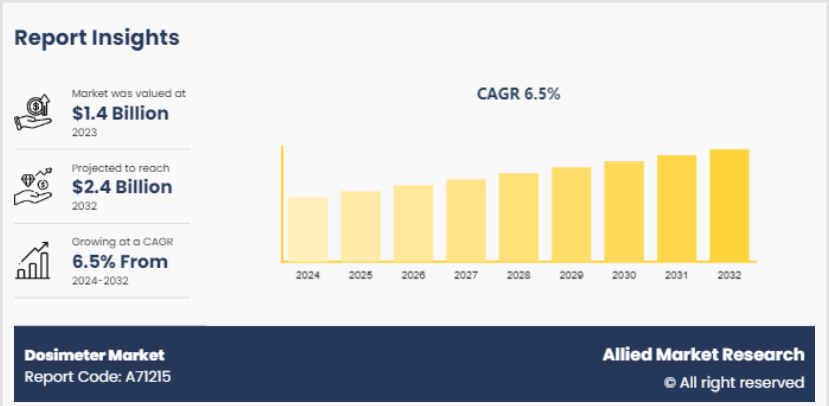

Dosimeter Market

WILMINGTON, DE, UNITED STATES, June 25, 2025 /EINPresswire.com/ -- Allied Market Research published a report, titled,"Dosimeter Market by Type (Electronic personal dosimeters, Thermoluminescent dosimeters, Film badge dosimeters and Optically stimulated luminescence (OSL) dosimeters), Application (Active and Passive), End Use Industry (Healthcare, Oil and Gas, Mining, Manufacturing and Others): Global Opportunity Analysis and Industry Forecast, 2024-2032". According to the report, the dosimeter market was valued at $1.4 billion in 2023, and is estimated to reach $2.4 billion by 2032, growing at a CAGR of 6.5% from 2024 to 2032.

> The dosimeter market grows with digital tech, IoT, and analytics adoption, driven by safety needs in healthcare, nuclear, and industrial sectors."
>
> *Allied Market Research*

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A dosimeter is an instrument used to measure the exposure of a person to ionizing radiation so that it will not be over the safety dose limits. Dosimeters are highly advisable in areas with high radiation levels, like medical centers, nuclear power plants, or research labs.

Dosimeters can be TLDs (Thermoluminescent Dosimeters), EPDs (Electronic Personal Dosimeters), or film badge dosimeters.

Technological improvement of dosimeters has improved the accuracy, practicability, and chances of storing and analyzing digital data, thus improving their use in radiation safety management. The dosimeter market is growing rapidly because of the changing market dynamics and trends due to increased consumption levels in areas that expose people to radiation. One such area is medical imaging and industrial applications. Apart from this, automobile industries use

dosimeters while manufacturing.

As self-driving vehicles are becoming more prominent, so is the application of sophisticated systems for radiation detection, which is enhancing safety in these cars. In addition, the use of dosimeters in the automobile industry has increased, especially with the emergence of self-driving vehicles, which require advanced systems for detecting radiation for safety purposes.

Dosimeters are primarily worn by professionals in the industrial and medical fields, as well as by radiation emergency personnel such as first responders and HAZMAT workers. These individuals wear personal radiation dosimeters to track their cumulative radiation exposure. Some dosimeters provide immediate alerts for harmful radiation levels, while others are used as part of a program to monitor and protect against cumulative radiation doses.

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Innovating dosimetry for ultra-high dose FLASH therapy

New studies on FLASH radiotherapy emphasize the requirement for improved dosimetry techniques. This therapy provides ultra-high dose rates that potentially reduce normal tissue toxicity as compared to conventional techniques. However, dose measurements at such high rates are quite challenging, emphasizing the need to further develop standard dosimeters to accurately measure the dose.

The power of DIS technology in dosimetry

DIS technology has completely changed dosimetry, particularly in the case of radiation exposure monitoring. It is different from traditional dosimeters, which provide a limited number of readings, whereas DIS systems can have an unlimited number of readouts. This allows the user to follow their radiation exposure as often as needed without altering the stored data, ensuring constant tracking and better safety.

The electronic charge storage element used by the DIS dosimeter is non-volatile. Therefore, it has stored dose information after multiple readouts. This explains why data remains intact and can be easily retrieved in the future without losing any of it, hence providing an intact record of exposure over time. Also, DIS dosimeters use a gaseous-filled ionization chamber with excellent sensitivity to radiation. Therefore, the different types of photons, beta rays, and even neutron measurements can be accurate, which also makes it feasible for diverse uses in occupational health and safety.

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Thermo Fisher Scientific launched a novel Personal Dosimetry Device

Thermo Fisher Scientific introduced a connected and wearable device for monitoring radiation exposure, the NetDoseTM Pro digital dosimeter. This compact tool is designed to assess and communicate radiation risk for individuals across various industries, including healthcare while helping companies meet strict regulatory standards.

The dosimeter is equipped with Bluetooth 5.0 wireless technology, allowing it to connect to a gateway data router and/or the NetDose mobile app, thereby delivering fast and precise data to an interface, thus enabling users to track radiation levels, generate reports, assign devices to wearers, and oversee their entire dosimetry system.

To summarize, dosimeters play an important role in the determination of exposure to industrial radiation, such as in hospitals and nuclear power. DIS dosimetry systems offer innovations for real-time tracking, accurate measurements, and reliable data storage, thereby enhancing safety and bettering the observance of strict radiation safety standards.

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Allied Market Research is a top provider of market intelligence that offers reports from leading technology publishers. Our in-depth market assessments in our research reports take into account significant technological advancements in the sector. In addition to other areas of expertise, AMR focuses on the analysis of high-tech systems and advanced production systems. We have a team of experts who compile thorough research reports and actively advise leading businesses to enhance their current procedures. Our experts have a wealth of knowledge on the topics they cover. Also, they use a variety of tools and techniques when gathering and analyzing data, including patented data sources.

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