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The Global Market for Radiation Detection Equipment and Materials 2023-2033

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Abstracts

The radiation detection equipment market is an essential part of various industries, including medical imaging, nuclear power, manufacturing, security, and environmental monitoring. The main objective of this equipment is to detect and measure the presence of ionizing radiation, which includes alpha, beta, gamma, and neutron radiation. Market growth is driven by national security, nuclear power generation, and medical imaging/diagnostics applications. Geiger counters and scintillation detectors are the most commonly used technologies. Semiconductor detectors are growing fastest for high resolution analysis. The market is consolidated with the top 5 suppliers accounting for the majority of the market.

Report contents include:

Overview of radiation types and sources.

Principles of radiation detection.

Market trends and drivers.

SWOT analysis.

Analysis of Equipment/devices market including:
Proportional Radiation Detectors (PRDs)

Semiconductor Proportional Radiation Detectors (SPRD)

Dosimeters

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- Area Monitors
- Survey Meters
- RIIDs
- Portal Monitors, Fixed
- Portal Monitors, Portable
- Portable Backpack Systems
- Contamination Monitors.

Analysis of leading equipment suppliers and market shares.

Equipment pricing analysis.

Emerging technologies and innovations.

Analysis of radiation detection materials market including:

- NaI scintillators
- Cesium Iodide crystals
- Thin film scintillators
- Lanthanam-based materials
- CLYC-based materials
- Oxide-based materials
- Silicate-based materials
- Yittrium-based materials

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Plastic scintillators

Nanomaterials.

Material supplier analysis.

Pricing analysis and cost structure.

Analysis of end-use markets including:

Nuclear Energy

Food Industry

Industrial Radiography

Oil and Mining

Security and Military

Medical Imaging

Environmental monitoring.

Global market revenues 2018-2033 (Billion USD) by equipment type, end-use markets and region.

Profiles of 33 companies including product offerings. Companies profiled include Berkeley Nucleonics, CoDeAc Solutions, Fuji Electric, Kromek, Mirion Technologies, Saint-Gobain, and Thermo Fisher Scientific.

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