

Medical Radiation Detection Market Size, Trends, Analysis, and Outlook By Detector Type (Gas-filled Detectors, Scintillators, Solid-state Detectors), By Gas-filled Detectors (Geiger–Muller Counters, Ionization Chambers, Proportional Counters), By Scintillators (Inorganic Scintillators, Organic Scintillators), By Solid-state Detectors (Semiconductor Detectors, Ionizing Radiation Detectors, Terahertz Radiation Detectors), By Product (Personal Dosimeters, Area Process Monitors, Environment Radiation Monitors, Surface Contamination Monitors, Radioactive Material Monitors, Others), By End-user (Hospitals, Ambulatory Surgical Centers, Diagnostic Imaging Centers, Homecare), by Region, Country, Segment, and Companies, 2024-2030

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Abstracts

The global Medical Radiation Detection market size is poised to register 8.11% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Medical Radiation Detection market across By Detector Type (Gas-filled Detectors, Scintillators, Solid-state Detectors), By Gas-filled Detectors (Geiger–Muller Counters, Ionization Chambers, Proportional Counters), By Scintillators (Inorganic Scintillators, Organic Scintillators), By Solid-state Detectors (Semiconductor Detectors, Ionizing Radiation Detectors, Terahertz Radiation

Detectors), By Product (Personal Dosimeters, Area Process Monitors, Environment Radiation Monitors, Surface Contamination Monitors, Radioactive Material Monitors, Others), By End-user (Hospitals, Ambulatory Surgical Centers, Diagnostic Imaging Centers, Homecare).

The Medical Radiation Detection market is witnessing substantial growth attributed to the increasing adoption of radiation-based diagnostic and therapeutic procedures, rising awareness about radiation safety, and growing concerns about radiation exposure in healthcare settings. Medical radiation detection devices are used to monitor and measure radiation levels in diagnostic imaging, radiation therapy, nuclear medicine, and interventional procedures to ensure patient and staff safety. Factors such as the expanding volume of medical imaging studies, the rise in cancer incidence necessitating radiation therapy, and the increasing use of radioactive isotopes for diagnosis and treatment are driving market expansion. Additionally, the implementation of regulations and guidelines mandating radiation monitoring and dose optimization, the integration of radiation detection systems into medical imaging equipment and personal protective gear, and the development of advanced dosimeters and detectors with real-time monitoring capabilities are fueling growth in the market. Moreover, the growing adoption of digital radiography and fluoroscopy systems, the deployment of radiation monitoring networks in hospitals and healthcare facilities, and the emergence of artificial intelligence (AI) algorithms for radiation dose prediction and optimization are driving market growth. Furthermore, efforts to enhance product reliability, accuracy, and user-friendliness, and to address challenges related to radiation measurement in complex medical procedures are expected to further propel market growth in the coming years.

Medical Radiation Detection Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Medical Radiation Detection market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Medical Radiation Detection survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Medical Radiation Detection industry.

Key market trends defining the global Medical Radiation Detection demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

Medical Radiation Detection Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Medical Radiation Detection industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Medical Radiation Detection companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

Key strategies adopted by companies within the Medical Radiation Detection industry

Leading Medical Radiation Detection companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Medical Radiation Detection companies.

Medical Radiation Detection Market Study- Strategic Analysis Review

The Medical Radiation Detection market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

Industry Dynamics: Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

Strategic Insights: Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

Internal Strengths and Weaknesses: Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

Future Possibilities: Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

Medical Radiation Detection Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Medical Radiation Detection industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

Medical Radiation Detection Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

North America Medical Radiation Detection Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Medical Radiation Detection market segments. Similarly, Strong end-user demand is encouraging Canadian Medical Radiation Detection companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Medical Radiation Detection market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

Europe Medical Radiation Detection Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Medical

Radiation Detection industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Medical Radiation Detection market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

Asia Pacific Medical Radiation Detection Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Medical Radiation Detection in Asia Pacific. In particular, China, India, and South East Asian Medical Radiation Detection markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Medical Radiation Detection Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Medical Radiation Detection Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Medical Radiation Detection market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Medical Radiation Detection.

Medical Radiation Detection Market Company Profiles

The global Medical Radiation Detection market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Atomtex, IBA Dosimetry GmbH, LANDAUER, Mirion Technologies Inc, Mp Biomedicals, PTW Freiburg GmbH, Sanlar imex services private Ltd, Sierra Radiation Dosimetry Service Inc, Thermo Fisher Scientific Inc, UAB Polimaster Europe

Recent Medical Radiation Detection Market Developments

The global Medical Radiation Detection market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Medical Radiation Detection Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

Market Segmentation:

By Detector Type

Gas-filled Detectors

Scintillators

Solid-state Detectors

By Gas-filled Detectors

Geiger–Muller Counters

Ionization Chambers

-Dosimeters

-Radiation Survey Meters

Proportional Counters

By Scintillators

Inorganic Scintillators

Organic Scintillators

By Solid-state Detectors

Semiconductor Detectors

-Ionizing Radiation Detectors

-Terahertz Radiation Detectors

By Product

Personal Dosimeters

-Passive Dosimeters

-Active Dosimeters

Area Process Monitors

Environment Radiation Monitors

Surface Contamination Monitors

Radioactive Material Monitors

Others

By End-User

Hospitals

Ambulatory Surgical Centers

Diagnostic Imaging Centers

Homecare

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

Companies

Atomtex

IBA Dosimetry GmbH

LANDAUER

Mirion Technologies Inc

Mp Biomedicals

PTW Freiburg GmbH

Sanlar imex services private Ltd

Sierra Radiation Dosimetry Service Inc

Thermo Fisher Scientific Inc

UAB Polimaster Europe

Formats Available: Excel, PDF, and PPT

Contents

1. EXECUTIVE SUMMARY

- 1.1 Medical Radiation Detection Market Overview and Key Findings, 2024
- 1.2 Medical Radiation Detection Market Size and Growth Outlook, 2021- 2030
- 1.3 Medical Radiation Detection Market Growth Opportunities to 2030
- 1.4 Key Medical Radiation Detection Market Trends and Challenges
 - 1.4.1 Medical Radiation Detection Market Drivers and Trends
 - 1.4.2 Medical Radiation Detection Market Challenges
- 1.5 Competitive Landscape and Key Players
- 1.6 Competitive Analysis- Growth Strategies Adopted by Leading Medical Radiation Detection Companies

2. MEDICAL RADIATION DETECTION MARKET SIZE OUTLOOK TO 2030

- 2.1 Medical Radiation Detection Market Size Outlook, USD Million, 2021- 2030
- 2.2 Medical Radiation Detection Incremental Market Growth Outlook, %, 2021- 2030
- 2.3 Segment Snapshot, 2024

3. MEDICAL RADIATION DETECTION MARKET- STRATEGIC ANALYSIS REVIEW

- 3.1 Porter's Five Forces Analysis
 - * Threat of New Entrants
 - * Threat of Substitutes
 - * Intensity of Competitive Rivalry
 - * Bargaining Power of Buyers
 - * Bargaining Power of Suppliers
- 3.2 Value Chain Analysis
- 3.3 SWOT Analysis

4. MEDICAL RADIATION DETECTION MARKET SEGMENTATION ANALYSIS AND OUTLOOK

- 4.1 Market Segmentation and Scope
- 4.2 Market Breakdown by Type, Application, and Other Segments, 2021-2030
 - By Detector Type
 - Gas-filled Detectors
 - Scintillators

Solid-state Detectors
By Gas-filled Detectors
Geiger–Muller Counters
Ionization Chambers
-Dosimeters
-Radiation Survey Meters
Proportional Counters
By Scintillators
Inorganic Scintillators
Organic Scintillators
By Solid-state Detectors
Semiconductor Detectors
-Ionizing Radiation Detectors
-Terahertz Radiation Detectors
By Product
Personal Dosimeters
-Passive Dosimeters
-Active Dosimeters
Area Process Monitors
Environment Radiation Monitors
Surface Contamination Monitors
Radioactive Material Monitors
Others
By End-User
Hospitals
Ambulatory Surgical Centers
Diagnostic Imaging Centers
Homecare

4.3 Growth Prospects and Niche Opportunities, 2023- 2030

4.4 Regional comparison of Market Growth, CAGR, 2023-2030

5. REGION-WISE MARKET OUTLOOK TO 2030

5.1 Key Findings for Asia Pacific Medical Radiation Detection Market, 2025

5.2 Asia Pacific Medical Radiation Detection Market Size Outlook by Type, 2021- 2030

5.3 Asia Pacific Medical Radiation Detection Market Size Outlook by Application, 2021- 2030

5.4 Key Findings for Europe Medical Radiation Detection Market, 2025

5.5 Europe Medical Radiation Detection Market Size Outlook by Type, 2021- 2030

5.6 Europe Medical Radiation Detection Market Size Outlook by Application, 2021-2030

5.7 Key Findings for North America Medical Radiation Detection Market, 2025

5.8 North America Medical Radiation Detection Market Size Outlook by Type, 2021-2030

5.9 North America Medical Radiation Detection Market Size Outlook by Application, 2021- 2030

5.10 Key Findings for South America Medical Radiation Detection Market, 2025

5.11 South America Pacific Medical Radiation Detection Market Size Outlook by Type, 2021- 2030

5.12 South America Medical Radiation Detection Market Size Outlook by Application, 2021- 2030

5.13 Key Findings for Middle East and Africa Medical Radiation Detection Market, 2025

5.14 Middle East Africa Medical Radiation Detection Market Size Outlook by Type, 2021- 2030

5.15 Middle East Africa Medical Radiation Detection Market Size Outlook by Application, 2021- 2030

6. COUNTRY-WISE MARKET SIZE OUTLOOK TO 2030

6.1 US Medical Radiation Detection Market Size Outlook and Revenue Growth Forecasts

6.2 US Medical Radiation Detection Industry Drivers and Opportunities

6.3 Canada Market Size Outlook and Revenue Growth Forecasts

6.4 Canada Medical Radiation Detection Industry Drivers and Opportunities

6.6 Mexico Market Size Outlook and Revenue Growth Forecasts

6.6 Mexico Medical Radiation Detection Industry Drivers and Opportunities

6.7 Germany Market Size Outlook and Revenue Growth Forecasts

6.8 Germany Medical Radiation Detection Industry Drivers and Opportunities

6.9 France Market Size Outlook and Revenue Growth Forecasts

6.10 France Medical Radiation Detection Industry Drivers and Opportunities

6.11 UK Market Size Outlook and Revenue Growth Forecasts

6.12 UK Medical Radiation Detection Industry Drivers and Opportunities

6.13 Spain Market Size Outlook and Revenue Growth Forecasts

6.14 Spain Medical Radiation Detection Industry Drivers and Opportunities

6.16 Italy Market Size Outlook and Revenue Growth Forecasts

6.16 Italy Medical Radiation Detection Industry Drivers and Opportunities

6.17 Rest of Europe Market Size Outlook and Revenue Growth Forecasts

6.18 Rest of Europe Medical Radiation Detection Industry Drivers and Opportunities

- 6.19 China Market Size Outlook and Revenue Growth Forecasts
- 6.20 China Medical Radiation Detection Industry Drivers and Opportunities
- 6.21 India Market Size Outlook and Revenue Growth Forecasts
- 6.22 India Medical Radiation Detection Industry Drivers and Opportunities
- 6.23 Japan Market Size Outlook and Revenue Growth Forecasts
- 6.24 Japan Medical Radiation Detection Industry Drivers and Opportunities
- 6.26 South Korea Market Size Outlook and Revenue Growth Forecasts
- 6.26 South Korea Medical Radiation Detection Industry Drivers and Opportunities
- 6.27 Australia Market Size Outlook and Revenue Growth Forecasts
- 6.28 Australia Medical Radiation Detection Industry Drivers and Opportunities
- 6.29 South East Asia Market Size Outlook and Revenue Growth Forecasts
- 6.30 South East Asia Medical Radiation Detection Industry Drivers and Opportunities
- 6.31 Rest of Asia Pacific Market Size Outlook and Revenue Growth Forecasts
- 6.32 Rest of Asia Pacific Medical Radiation Detection Industry Drivers and Opportunities
- 6.33 Brazil Market Size Outlook and Revenue Growth Forecasts
- 6.34 Brazil Medical Radiation Detection Industry Drivers and Opportunities
- 6.36 Argentina Market Size Outlook and Revenue Growth Forecasts
- 6.36 Argentina Medical Radiation Detection Industry Drivers and Opportunities
- 6.37 Rest of South America Market Size Outlook and Revenue Growth Forecasts
- 6.38 Rest of South America Medical Radiation Detection Industry Drivers and Opportunities
- 6.39 Middle East Market Size Outlook and Revenue Growth Forecasts
- 6.40 Middle East Medical Radiation Detection Industry Drivers and Opportunities
- 6.41 Africa Market Size Outlook and Revenue Growth Forecasts
- 6.42 Africa Medical Radiation Detection Industry Drivers and Opportunities

7. MEDICAL RADIATION DETECTION MARKET OUTLOOK ACROSS SCENARIOS

- 7.1 Low Growth Case
- 7.2 Reference Growth Case
- 7.3 High Growth Case

8. MEDICAL RADIATION DETECTION COMPANY PROFILES

- 8.1 Profiles of Leading Medical Radiation Detection Companies in the Market
- 8.2 Business Descriptions, SWOT Analysis, and Growth Strategies
- 8.3 Financial Performance and Key Metrics

Atomtex

IBA Dosimetry GmbH
LANDAUER
Mirion Technologies Inc
Mp Biomedicals
PTW Freiburg GmbH
Sanlar imex services private Ltd
Sierra Radiation Dosimetry Service Inc
Thermo Fisher Scientific Inc
UAB Polimaster Europe

9. APPENDIX

- 9.1 Scope of the Report
- 9.2 Research Methodology and Data Sources
- 9.3 Glossary of Terms
- 9.4 Market Definitions
- 9.5 Contact Information

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