

Radiation Detection Equipment Markets: 2015 - 2022

<https://marketpublishers.com/r/R0CD90B10B5EN.html>

Date: June 2015

Pages: 0

Price: US\$ 3,995.00 (Single User License)

ID: R0CD90B10B5EN

Abstracts

This report may be combined for purchase with report, 'Radiation Detection Materials Markets 2015-2022' Please contact us for details

Increasing concerns about nuclear terrorism and expanding use of medical imaging continue to fuel the need for accurate radiation detection equipment. Beyond traditional military and medical applications, industrial applications are also providing growth opportunities over the next eight years. This includes enhanced safety for nuclear power plants, as well as emerging applications such as monitoring of food irradiation.

This report builds on the almost five years that n-tech has been covering the radiation detection equipment and materials markets. It identifies where the opportunities will be found in the radiation detection equipment market over the next eight years and it quantifies n-tech's analysis in the form of an eight-year shipments and revenue forecast. These forecasts are broken down by type of equipment, end application, and geography. Our coverage in this report includes a broad range of radiation detection equipment, from personal dosimeters and handheld devices to radiation detection portals and aerial surveillance.

We assess the commercial implications of how the latest radiation detection equipment is speeding up detection, reducing false alarms, and offering better software support to enable more accurate detection and data tracking. And we examine the trend toward smaller and less-expensive devices. The report also examines how regulatory regimes in nuclear power and healthcare are shaping the need for radiation detection equipment.

The report also analyzes the new product development and strategies of leading suppliers as they strive to meet the needs of customers in a range of industries. Companies covered include Berkeley Nucleonics, Canberra, Kromek, Landauer, Mirion,

Polimaster, Rapidscan, Thermo Fisher Scientific, and others.

Contents

EXECUTIVE SUMMARY

- E.1 Recent Growth in Industrial Applications
 - E.1.1 Nuclear Power Plants
 - E.1.2 Food Irradiation Facilities
 - E.1.3 Scrap Metal Recycling
- E.2 Continuing Equipment Demand in Domestic Security and the Military
- E.3 Accelerating Development of Medical Imaging
- E.4 Key Firms to Watch
 - E.4.1 Radiation Monitoring Equipment Providers
 - E.4.2 Medical Imaging Equipment Providers
- E.5 Summary of Eight-Year Forecasts for Radiation Detection Equipment
 - E.5.1 Summary by Application and Type of Detector
 - E.5.2 Summary by Geography

CHAPTER ONE: INTRODUCTION

- 1.1 Background to this Report
 - 1.1.1 Changes since Last Report
 - 1.1.2 Trends in Equipment for Radiation Detection
 - 1.1.3 Trends in Radiation Detection Demand
 - 1.1.4 Detecting Gamma and Neutron Radiation
- 1.2 Objectives and Scope of this Report
- 1.3 Methodology of this Report
- 1.4 Plan of this Report

CHAPTER TWO: INDUSTRIAL SAFETY AND SCIENTIFIC APPLICATIONS

- 2.1 Monitoring Factories, Laboratories and Personnel
- 2.2 Safety for Nuclear Power Plants
 - 2.2.1 Global Plans for Nuclear Power
 - 2.2.2 Detection Equipment used at Nuclear Power Plants
 - 2.2.3 Suppliers of Radiation Detection Equipment for Nuclear Power Plants
- 2.3 Needs of the Food Industry
 - 2.3.1 Factors Affecting Adoption of Food Irradiation
 - 2.3.2 Effect of Government Guidelines
 - 2.3.3 Dosimeters and Detectors

- 2.4 Scrap Metal Recycling
 - 2.4.1 Guidelines and the Need for Monitoring
 - 2.4.2 Response of the Recycling Industry
- 2.5 Industrial Radiography
- 2.6 Oil and Mining Industry
 - 2.6.1 Radiation Detection Equipment for Oil and Mining
 - 2.6.2 Waste Disposal
- 2.7 High Energy Physics and the needs of National Laboratories
- 2.8 Key Points from this Chapter

CHAPTER THREE: APPLICATIONS FOCUSED ON SECURITY

- 3.1 The Landscape of Radiation Detection Equipment for Security Applications
 - 3.1.1 Types of Radiation Detection Devices in Use
 - 3.1.2 Key Equipment Suppliers
- 3.2 Addressing the Threat of Nuclear Weapons
 - 3.2.1 Global Concerns about Weapons Proliferation
 - 3.2.2 The Need for Radiation Detection Equipment
- 3.3 Homeland Security: Protecting Ports of Entry and Cities
 - 3.3.1 Protecting Ports and Borders
 - 3.3.2 Addressing the Needs of First Responders
 - 3.3.3 Keeping U.S. Cities Safe
 - 3.3.4 Security at Special Events
 - 3.3.5 Equipping Civilians with Radiation Detection Ability
- 3.4 Military Uses for Radiation Detection
 - 3.4.1 Portable Detection Devices
 - 3.4.2 Opportunities for Larger Scale Systems
- 3.5 Key Points from this Chapter

CHAPTER FOUR: MEDICAL APPLICATIONS FOR RADIATION DETECTION EQUIPMENT

- 4.1 Technology Advancements and Geographical Trends
 - 4.1.1 Technology Trends
 - 4.1.2 Improving Dosage Tracking
 - 4.1.3 Key Equipment Suppliers
 - 4.1.4 Global Demand for Services
- 4.2 Regulatory and Policy Changes Affecting the Market
 - 4.2.1 New Requirements in Europe

- 4.2.2 Accreditation of Medical Facilities in the U.S.
- 4.2.3 Health Insurance Policies and Healthcare Funding
- 4.3 Nuclear Medicine: Diagnostic Equipment
 - 4.3.1 Hybrid Imaging Systems
 - 4.3.2 Other Technology Trends Affecting Nuclear Medicine Imaging
- 4.4 Nuclear Medicine: Radiotherapy
 - 4.4.1 Image-Guided Radiotherapy
 - 4.4.2 Equipment Trends for Radiotherapy
- 4.5 Trends in X-Ray Imaging
 - 4.5.1 The Transition to Digital Imaging
 - 4.5.2 3D Mammography
 - 4.5.3 Bone Densitometry
 - 4.5.4 The Future of Computed Tomography (CT)
 - 4.5.5 Prospects for Suppliers
- 4.6 Pharmaceutical Industry Applications
 - 4.6.1 Radiation Detection Needs
 - 4.6.2 Development of Radiopharmaceuticals
- 4.7 Key Points from This Chapter

CHAPTER FIVE: EIGHT-YEAR FORECASTS OF RADIATION DETECTION EQUIPMENT

- 5.1 Forecast Methodology
- 5.2 Forecasts by Sector
 - 5.2.1 Nuclear Power Plants
 - 5.2.2 Other Industrial Applications
 - 5.2.3 Scientific and Research
 - 5.2.4 Homeland Security
 - 5.2.5 Military
 - 5.2.6 Nuclear Medicine
 - 5.2.7 X-Ray Imaging
 - 5.2.8 Safety and Security Detectors for Medical Imaging
- 5.3 Forecasts by Type of Equipment
- 5.4 Forecasts by Geography

ACRONYMS AND ABBREVIATIONS USED IN THIS REPORT

About

ABOUT THE AUTHOR

List Of Exhibits

LIST OF EXHIBITS

- Exhibit E-1: The Market for Radiation Detection Equipment, by Sector
- Exhibit E-2: The Market for Safety and Security Detectors, by Type
- Exhibit E-3: The Market for Radiation Detection Equipment, by Geography
- Exhibit 2-1: Companies Supplying Equipment for Industrial Applications
- Exhibit 2-2: Nuclear Power Plants Under Construction or Planned, by Region
- Exhibit 2-3: Food Irradiation Status by Country/Region
- Exhibit 3-1: Radiation Detection Equipment for Domestic Security and Military Applications
- Exhibit 3-2: Companies Supplying Radiation Detection Equipment for Security and Military Applications
- Exhibit 3-3: Worldwide Nuclear Weapons Arsenals
- Exhibit 3-4: TSA-approved Vendors for Scanning at Airports
- Exhibit 4-1: Radiation Detection Equipment for Medical Applications
- Exhibit 4-2: Companies Supplying Radiation Detection Equipment for Medical Applications
- Exhibit 4-3: Changes to Joint Commission Standards for Diagnostic Imaging
- Exhibit 4-4: PET/CT System Comparison
- Exhibit 4-5: PET/MRI System Comparison
- Exhibit 4-6: SPECT/CT System Comparison
- Exhibit 4-7: Companies Supplying X-ray Imaging Technology
- Exhibit 4-8: Different Types of Detectors Used in the Pharmaceutical Industry
- Exhibit 4-9: Some Important Radioisotopes and their Clinical Uses
- Exhibit 5-1: Average Sales Price for Safety and Security Monitors and Detectors (\$)
- Exhibit 5-2: Average Sales Prices for Specialty Detectors and Equipment
- Exhibit 5-3: The Market for Radiation Detectors for Nuclear Power Plants
- Exhibit 5-4: The Market for Radiation Detectors for Food Irradiation Safety
- Exhibit 5-5: The Market for Radiation Detectors for Scrap Metal Recycling
- Exhibit 5-6: The Market for Radiation Detectors for Industrial Radiography
- Exhibit 5-7: The Market for Radiation Detectors for Oil and Mining Exploration
- Exhibit 5-8: The Market for Radiation Detectors for Physics Laboratories
- Exhibit 5-9: The Market for Radiation Detectors for Medical and Academic Laboratories
- Exhibit 5-10: The Market for Radiation Detectors for Domestic Security
- Exhibit 5-11: The Market for Radiation Detectors for Military Applications
- Exhibit 5-12: The Market for Medical SPECT Detectors
- Exhibit 5-13: The Market for Medical PET Detectors

Exhibit 5-14: The Market for Radiotherapy Detectors

Exhibit 5-15: The Market for Medical Radiography Detectors

Exhibit 5-16: The Market for Medical Computed Tomography and Mammography Radiography Detectors

Exhibit 5-17: The Market for Radiation Detectors for Medical Imaging

Exhibit 5-18: The Market for Radiation Monitoring Equipment, by Type

Exhibit 5-19: The Market for Radiation Detection Equipment, by Sector and Geography—Security and Safety Detectors, Small Specialty Detectors

Exhibit 5-20: The Market for Radiation Detection Equipment, by Sector and Geography—Large Specialty Detectors and Equipment

I would like to order

Product name: Radiation Detection Equipment Markets: 2015 - 2022

Product link: <https://marketpublishers.com/r/R0CD90B10B5EN.html>

Price: US\$ 3,995.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/R0CD90B10B5EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970