

Dosimetry: Technologies and Global Markets

<https://marketpublishers.com/r/D849050C8E1EN.html>

Date: August 2018

Pages: 155

Price: US\$ 1,375.00 (Single User License)

ID: D849050C8E1EN

Abstracts

REPORT SCOPE

Dosimetry is defined as the measurement, calculation and assessment of the ionizing-radiation dose absorbed by the human body. Dosimetry is widely used to protect workers from radiation and is applied at various radiation sites as well as in cases of accidental radiation leakage. A radiation dosimeter is a device used to measure the exposure of the human body to ionizing radiation. At this time, dosimetry is growing in usage and scope. Companies are developing devices that can measure toxic and harmful gases and that are capable of being used as dosimeters. Hence, the current dosimeter market is broad and includes any gas-detection device that is capable of being used as a dosimeter.

Dosimeters are used mainly in the medical industry and at industrial sites where workers may be exposed to toxic and harmful gases. One very important application of dosimeters is in the medical industry in the area of cancer treatments, during which patients are given very specific and targeted amounts of radiation in order to destroy cancer cells.

This report covers the types of dosimetry technologies used for various end-user applications. The report also includes gas-detection and gas-measurement devices that are capable of being used as dosimeters and considers these within the purview of dosimetry. Noise dosimeters, however, are outside the scope of this report. The market is broken down by major types, technologies, regions and applications. Revenue forecasts from 2017 through 2022 are provided for each dosimeter segment, and regional markets are sized, with estimated values derived from manufacturers' total revenues.

The report will explain how the market for dosimetry technologies has evolved over time

and will identify the following:

Primary forces with a direct impact on the market

Secondary forces that have an indirect impact

Funding and financing in this space

Challenges that may hinder the growth of this market

Key market trends

Leading end users of dosimetry technologies

Demand for these technologies in the Asia-Pacific region, North America, Europe, Middle East and Africa and South America

REPORT INCLUDES

89 data tables and 4 additional tables

An overview of the global dosimetry market, including dosimeter devices

Analyses of global market trends, with data from 2016, 2017 and projections of compound annual growth rates (CAGRs) through 2022

Segmentation of the market by major region, type, technology, and end-user industry

Analysis of the industry structure, including restraints and opportunities, that will impact the future market

Evaluation of government regulations along with safety rules and regulations

Company profiles of major players in the market, including Arrow-Tech Inc., Fuji Electric Co. Ltd., Honeywell Analytics Inc., Landauer, Panasonic Corp., and Thermo Fisher Scientific Inc

Contents

CHAPTER 1 INTRODUCTION

Study Goals and Objectives
Reasons for Doing This Study
Scope of Report
Information Sources
Methodology
Geographic Breakdown
Analyst's Credentials
Related BCC Research Reports

CHAPTER 2 SUMMARY AND HIGHLIGHTS

CHAPTER 3 MARKET AND TECHNOLOGY BACKGROUND

Development and Evolution of Dosimeters
Electronic Dosimeters
Optically Stimulated Luminescence Dosimeters
Thermoluminescent Dosimeters
Sorbent Tubes
Colorimetric Tubes
Film Dosimeters
Direct Ion Storage
Radiophotoluminescence Glass Dosimeters
Liquid Crystal-Based Passive Badge
Photo Ionized Detection
Single-Gas Monitors
4-Gas Monitors
Connected 4-Gas Monitor/Detector
Application in Various Industries
Industrial Applications
Medical Applications
Oil and Gas Applications
Military and Security Applications
Mining Applications
Environmental Applications
Space Applications

Key Company Strategies
Growing Focus on Emerging Economies
Warranty Options Offered by Companies
Calibration and Maintenance Centers
Online Sales
Mergers and Acquisition
Global Market Forecast for the Dosimetry Technology Market

CHAPTER 4 GLOBAL DOSIMETER MARKET BY DEVICE TYPE

Active Dosimeters Segment
Passive Dosimeters

CHAPTER 5 GLOBAL DOSIMETERS MARKET BY TECHNOLOGY

Electronic Dosimeters
Thermoluminescent Dosimeters
OSL Dosimeters
Sorbent Tubes
Colorimetric Tubes
Others

CHAPTER 6 GLOBAL DOSIMETER MARKET BY END USE

Industrial
Medical
Oil and Gas
Defense, Homeland Security and Waste Management
Mining
Environmental
Others

CHAPTER 7 GLOBAL DOSIMETER MARKET BY REGION

North America
United States
Canada
Mexico
Europe

Germany
United Kingdom
France
Spain
Asia-Pacific
China
Japan
India
Australia and New Zealand
Middle East and Africa
South America

CHAPTER 8 INDUSTRY STRUCTURE

Competition Among Existing Players
Threat of Substitutes
Threat of New Entrants
Buyer Power
Key Trends in the Market
Rising Popularity of BeO-equipped OSL Dosimeters
Customer Preference for Electronic Active Dosimeters
Rising Use of Dosimeters for Detecting Gases in Addition to Radiation
Emerging 3D Technology Dosimetry
Innovations Leading to Development of IoT Connected Dosimeters
Market Drivers
Growing Concern for Employee Health
Government Regulations Mandating the Use of Dosimeters
Growing Awareness about the Effects of Radiation and Toxic Gases
Growing Need for Advanced Medical Treatment
Growing Innovation by Companies to Develop Advanced Dosimeters
Growing Popularity of Handheld and Portable Gas Detectors

CHAPTER 9 COMPANY PROFILES

ARROW-TECH INC.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

BIODEX MEDICAL SYSTEMS INC.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

CHP DOSIMETRY

Business Overview:

Key Products and Services:

Strengths:

Challenges:

ECOTEST

Business Overview:

Key Products and Services:

Strengths:

Challenges:

FLUKE BIOMEDICAL

Business Overview:

Key Products and Services:

Strengths:

Challenges:

FUJI ELECTRIC CO. LTD.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

GAMMADATA INSTRUMENT AB

Business Overview:

Key Products and Services:

Strengths:

Challenges:

GASTEC CORP.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

GASTECH AUSTRALIA

Business Overview:

Key Products and Services:

Strengths:

Challenges:

HONEYWELL ANALYTICS INC.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

IBA WORLDWIDE

Business Overview:

Key Products and Services:

Strengths:

Challenges:

INDUSTRIAL SCIENTIFIC

Business Overview:

Key Products and Services:

Strengths:

Challenges:

INTECH DOSIMETERS PVT. LTD.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

LANDAUER

Business Overview:

Key Products:

Strengths:

Challenges:

LUDLUM MEASUREMENTS INC.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

MED-PRO INC.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

MIRION TECHNOLOGIES INC.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

NEXTTEQ LLC

Business Overview:

Key Products and Services:

Strengths:

Challenges:

PANASONIC CORP. OF NORTH AMERICA

Business Overview:

Key Products and Services:

Strengths:

Challenges:

POLIMASTER

Business Overview:

Key Products and Services:

Strengths:

Challenges:

PTW-FREIBURG GMBH

Business Overview:

Key Products and Services:

Strengths:

Challenges:

RADIATION DETECTION CO.

Business Overview:

Key Products and Services

Strengths:

Challenges:

RAE SYSTEMS

Business Overview:

Key Products and Services:

Strengths:

Challenges:

RIKEN KEIKI CO. LTD.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

S.E. INTERNATIONAL INC.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

SAPHYMO

Business Overview:

Key Products and Services:

Strengths:

Challenges:

SENSIDYNE, LP

Business Overview:

Key Products and Services:

Strengths:

Challenges:

SIERRA RADIATION DOSIMETRY SERVICES INC.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

SKC INC.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

TELEDYNE ADVANCED ELECTRONIC SOLUTIONS

Business Overview:

Key Products and Services:

Strengths:

Challenges:

THERMO FISHER SCIENTIFIC INC.

Business Overview:

Key Products and Services:

Strengths:

Challenges:

List Of Tables

LIST OF TABLES

Summary Table: Global Market for Dosimetry Technology, by Device Type, Through 2022

Table 1: Comparison of TLDs, OSL Dosimeters and RPLGDs

Table 2: Acquisitions in the Global Dosimeter Market, 2003-2017

Table 3: Global Market for Dosimetry Technology, by Device Type, Through 2022

Table 4: Global Market Share for Dosimetry Technology, by Device Type, 2016

Table 5: Global Market Share for Dosimetry Technology, by Device Type, 2017

Table 6: Global Market Share for Dosimetry Technology, by Device Type, 2022

Table 7: Global Market for Active Dosimeters, Through 2022

Table 8: Global Market for Active Dosimeters, by End Use, Through 2022

Table 9: Global Market for Passive Dosimeters, Through 2022

Table 10: Global Market for Passive Dosimeters, by End Use, Through 2022

Table 11: Global Market for Dosimetry Technology, by Technology Type, Through 2022

Table 12: Global Market Share for Dosimetry Technology, by Technology Type, 2016

Table 13: Global Market Share for Dosimetry Technology, by Technology Type, 2017

Table 14: Global Market Share for Dosimetry Technology, by Technology Type, 2022

Table 15: Global Market for Electronic Dosimeters, Through 2022

Table 16: Global Market for Thermoluminescent Dosimeters, Through 2022

Table 17: Global Market for Optically Stimulated Luminescence Dosimeters, Through 2022

Table 18: Global Market for Sorbent Tubes Dosimeters, Through 2022

Table 19: Global Market for Colorimetric Tubes Dosimeters, Through 2022

Table 20: Global Market for Other Dosimeters, Through 2022

Table 21: Global Market for Dosimetry Technology, by End Use, Through 2022

Table 22: Global Market Share for Dosimetry Technology, by End Use, 2016

Table 23: Global Market Share for Dosimetry Technology, by End Use, 2017

Table 24: Global Market Share for Dosimetry Technology, by End Use, 2022

Table 25: Global Market for Industrial Dosimeters, Through 2022

Table 26: Global Market for Medical Dosimeters, Through 2022

Table 27: Global Market for Oil and Gas Dosimeters, Through 2022

Table 28: Global Market for Defense, Homeland Security and Waste Management Dosimeters, Through 2022

Table 29: Global Market for Mining Dosimeters, Through 2022

Table 30: Global Market for Environmental Dosimeters, Through 2022

Table 31: Global Market for Other Dosimeters, Through 2022

- Table 32: Global Market for Dosimetry Technology, by Region, Through 2022
- Table 33: Global Market Share for Dosimetry Technology, by Region, 2016
- Table 34: Global Market Share for Dosimetry Technology, by Region, 2017
- Table 35: Global Market Share for Dosimetry Technology, by Region, 2022
- Table 36: North American Market for Dosimetry Technology, by Device Type, Through 2022
- Table 37: North American Market Share for Dosimetry Technology, by Device Type, 2016
- Table 38: North American Market Share for Dosimetry Technology, by Device Type, 2017
- Table 39: North American Market Share for Dosimetry Technology, by Device Type, 2022
- Table 40: North American Market for Dosimetry Technology, by End Use, Through 2022
- Table 41: North American Market Share for Dosimetry Technology, by End Use, 2016
- Table 42: North American Market Share for Dosimetry Technology, by End Use, 2017
- Table 43: North American Market Share for Dosimetry Technology, by End Use, 2022
- Table 44: North American Market for Dosimetry Technology, by Technology Type, Through 2022
- Table 45: North American Market Share for Dosimetry Technology, by Technology Type, 2016
- Table 46: North American Market Share for Dosimetry Technology, by Technology Type, 2017
- Table 47: North American Market Share for Dosimetry Technology, by Technology Type, 2022
- Table 48: U.S. Market for Dosimetry Technology, Through 2022
- Table 49: Canadian Market for Dosimeters, Through 2022
- Table 50: Mexican Market for Dosimeters, Through 2022
- Table 51: European Market for Dosimeters, by Device Type, Through 2022
- Table 52: European Market Share for Dosimeters, by Device Type, 2016
- Table 53: European Market Share for Dosimeters, by Device Type, 2017
- Table 54: European Market Share for Dosimeters, by Device Type, 2022
- Table 55: European Market for Dosimetry Technology, by End Use, Through 2022
- Table 56: European Market Share for Dosimetry Technology, by End Use, 2016
- Table 57: European Market Share for Dosimetry Technology, by End Use, 2017
- Table 58: European Market Share for Dosimetry Technology, by End Use, 2022
- Table 59: European Market for Dosimetry Technology, by Technology Type, Through 2022
- Table 60: European Market Share for Dosimetry Technology, by Technology Type, 2016

Table 61: European Market Share for Dosimetry Technology, by Technology Type, 2017

Table 62: European Market Share for Dosimetry Technology, by Technology Type, 2022

Table 63: German Market for Dosimetry Technology, Through 2022

Table 64: U.K. Market for Dosimetry Technology, Through 2022

Table 65: French Market for Dosimetry Technology, Through 2022

Table 66: Spanish Market for Dosimetry Technology, Through 2022

Table 67: Asia-Pacific Market for Dosimetry Technology, by Device Type, Through 2022

Table 68: Asia-Pacific Market Share for Dosimetry Technology, by Device Type, 2016

Table 69: Asia-Pacific Market Share for Dosimetry Technology, by Device Type, 2017

Table 70: Asia-Pacific Market Share for Dosimetry Technology, by Device Type, 2022

Table 71: Asia-Pacific Market for Dosimetry Technology, by End Use, Through 2022

Table 72: Asia-Pacific Market Share for Dosimetry Technology, by End Use, 2016

Table 73: Asia-Pacific Market Share for Dosimetry Technology, by End Use, 2017

Table 74: Asia-Pacific Market Share for Dosimetry Technology, by End Use, 2022

Table 75: Asia-Pacific Market for Dosimetry Technology, by Technology Type, Through 2022

Table 76: Asia-Pacific Market Share for Dosimetry Technology, by Technology Type, 2016

Table 77: Asia-Pacific Market Share for Dosimetry Technology, by Technology Type, 2017

Table 78: Asia-Pacific Market Share for Dosimetry Technology, by Technology Type, 2022

Table 79: Chinese Market for Dosimetry Technology, Through 2022

Table 80: Japanese Market for Dosimetry Technology, Through 2022

Table 81: Indian Market for Dosimetry Technology, Through 2022

Table 82: Australia/New Zealand Market for Dosimetry Technology, Through 2022

Table 83: MEA Market for Dosimetry Technology, by Country, Through 2022

Table 84: MEA Market Share for Dosimetry Technology, by Country, 2016

Table 85: MEA Market Share for Dosimetry Technology, by Country, 2017

Table 86: MEA Market Share for Dosimetry Technology, by Country, 2022

Table 87: South American Market for Dosimetry Technology, by Country, Through 2022

Table 88: South American Market Share for Dosimetry Technology, by Country, 2016

Table 89: South American Market Share for Dosimetry Technology, by Country, 2017

Table 90: South American Market Share for Dosimetry Technology, by Country, 2022

Table 91: Key Trends in the Global Dosimeters Market

Table 92: Key Factors Driving the Global Dosimeter Market and Their Impact

List Of Figures

LIST OF FIGURES

Summary Figure: Global Market for Dosimetry Technology, by Device Type, 2016-2022

Figure 1: Global Market for Dosimetry Technology, by Device Type, 2016-2022

Figure 2: Global Market Share for Dosimetry Technology, by Device Type, 2016

Figure 3: Global Market Share for Dosimetry Technology, by Device Type, 2017

Figure 4: Global Market Share for Dosimetry Technology, by Device Type, 2022

Figure 5: Global Market for Active Dosimeters, 2016–2022

Figure 6: Global Market for Passive Dosimeters, 2016–2022

Figure 7: Global Market for Dosimetry Technology, by Technology Type, 2016–2022

Figure 8: Global Market Share for Dosimetry Technology, by Technology Type, 2016

Figure 9: Global Market Share for Dosimetry Technology, by Technology Type, 2017

Figure 10: Global Market Share for Dosimetry Technology by Technology Type, 2022

Figure 11: Global Market for Electronic Dosimeters, 2016-2022

Figure 12: Global Market for Thermoluminescent Dosimeters, 2016–2022

Figure 13: Global Market for Optically Stimulated Luminescence Dosimeters, 2016-2022

Figure 14: Global Market for Sorbent Tubes Dosimeters, 2016–2022

Figure 15: Global Market for Colorimetric Tubes Dosimeters, 2016–2022

Figure 16: Global Market for Other Dosimeters, 2016–2022

Figure 17: Global Market for Dosimetry Technology, by End Use, 2016–2022

Figure 18: Global Market Share for Dosimetry Technology, by End Use, 2016

Figure 19: Global Market Share for Dosimetry Technology, by End Use, 2017

Figure 20: Global Market Share for Dosimetry Technology, by End Use, 2022

Figure 21: Global Market for Industrial Dosimeters, 2016–2022

Figure 22: Global Market for Medical Dosimeters, 2016–2022

Figure 23: Global Market for Oil and Gas Dosimeters, 2016–2022

Figure 24: Global Market for Defense, Homeland Security and Waste Management Dosimeters, 2016–2022

Figure 25: Global Market for Mining Dosimeters, 2016–2022

Figure 26: Global Market for Environmental Dosimeters, 2016–2022

Figure 27: Global Market for Other Dosimeters, 2016–2022

Figure 28: Global Market for Dosimetry Technology, by Region, 2016–2022

Figure 29: Global Market Share for Dosimetry Technology, by Region, 2016

Figure 30: Global Market Share for Dosimetry Technology, by Region, 2017

Figure 31: Global Market Share for Dosimetry Technology, by Region, 2022

Figure 32: North American Market for Dosimetry Technology, by Device Type, 2016–2022

Figure 33: North American Market Share for Dosimetry Technology, by Device Type, 2016

Figure 34: North American Market Share for Dosimetry Technology, by Device Type, 2017

Figure 35: North American Market Share for Dosimetry Technology, by Device Type, 2022

Figure 36: North American Market for Dosimetry Technology, by End Use, 2016–2022

Figure 37: North American Market Share for Dosimetry Technology, by End Use, 2016

Figure 38: North American Market Share for Dosimetry Technology, by End Use, 2017

Figure 39: North American Market Share for Dosimetry Technology, by End Use, 2022

Figure 40: North American Market for Dosimetry Technology, by Technology Type, 2016–2022

Figure 41: North American Market Share for Dosimetry Technology, by Technology Type, 2016

Figure 42: North American Market Share for Dosimetry Technology, by Technology Type, 2017

Figure 43: North American Market Share for Dosimetry Technology, by Technology Type, 2022

Figure 44: U.S. Market for Dosimetry Technology, 2016–2022

Figure 45: Canadian Market for Dosimeters 2016–2022

Figure 46: Mexican Market for Dosimeters, 2016–2022

Figure 47: European Market for Dosimeters by Device Type, 2016–2022

Figure 48: European Market Share for Dosimeters, by Device Type, 2016

Figure 49: European Market Share for Dosimeters, by Device Type, 2017

Figure 50: European Market Share for Dosimeters, by Device Type, 2022

Figure 51: European Market for Dosimetry Technology, by End Use, 2016–2022

Figure 52: European Market Share for Dosimetry Technology, by End Use, 2016

Figure 53: European Market Share for Dosimetry Technology, by End Use, 2017

Figure 54: European Market Share for Dosimetry Technology, by End Use, 2022

Figure 55: European Market for Dosimetry Technology, by Technology Type, 2016–2022

Figure 56: European Market Share for Dosimetry Technology, by Technology Type, 2016

Figure 57: European Market Share for Dosimetry Technology, by Technology Type, 2017

Figure 58: European Market Share for Dosimetry Technology, by Technology Type, 2022

Figure 59: German Market for Dosimetry Technology, 2016–2022

Figure 60: U.K. Market for Dosimetry Technology, 2016–2022

- Figure 61: French Market for Dosimetry Technology, 2016–2022
- Figure 62: Spanish Market for Dosimetry Technology, 2016–2022
- Figure 63: Asia-Pacific Market for Dosimetry Technology, by Device Type, 2016–2022
- Figure 64: Asia-Pacific Market Share for Dosimetry Technology, by Device Type, 2016
- Figure 65: Asia-Pacific Market Share for Dosimetry Technology, by Device Type, 2017
- Figure 66: Asia-Pacific Market Share for Dosimetry Technology, by Device Type, 2022
- Figure 67: Asia-Pacific Market for Dosimetry Technology, by End Use, 2016–2022
- Figure 68: Asia-Pacific Market Share for Dosimetry Technology, by End Use, 2016
- Figure 69: Asia-Pacific Market Share for Dosimetry Technology, by End Use, 2017
- Figure 70: Asia-Pacific Market Share for Dosimetry Technology, by End Use, 2022
- Figure 71: Asia-Pacific Market for Dosimetry Technology, by Technology Type, 2016–2022
- Figure 72: Asia-Pacific Market Share for Dosimetry Technology, by Technology Type, 2016
- Figure 73: Asia-Pacific Market Share for Dosimetry Technology, by Technology Type, 2017
- Figure 74: Asia-Pacific Market Share for Dosimetry Technology, by Technology Type, 2022
- Figure 75: Chinese Market for Dosimetry Technology, 2016–2022
- Figure 76: Japanese Market for Dosimetry Technology, 2016–2022
- Figure 77: Indian Market for Dosimetry Technology, 2016–2022
- Figure 78: Australia/New Zealand Market for Dosimetry Technology, 2016–2022
- Figure 79: MEA Market for Dosimetry Technology, by Country, 2016–2022
- Figure 80: MEA Market Share for Dosimetry Technology, by Country, 2016
- Figure 81: MEA Market Share for Dosimetry Technology, by Country, 2017
- Figure 82: MEA Market Share for Dosimetry Technology, by Country, 2022
- Figure 83: South American Market for Dosimetry Technology, by Country, 2016–2022
- Figure 84: South American Market Share for Dosimetry Technology, by Country, 2016
- Figure 85: South American Market Share for Dosimetry Technology, by Country, 2017
- Figure 86: South American Market Share for Dosimetry Technology, by Country, 2022

I would like to order

Product name: Dosimetry: Technologies and Global Markets

Product link: <https://marketpublishers.com/r/D849050C8E1EN.html>

Price: US\$ 1,375.00 (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/D849050C8E1EN.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