

Optical Sensing - Global Market Outlook (2017-2023)

<https://marketpublishers.com/r/OB4131B7B1BEN.html>

Date: July 2017

Pages: 124

Price: US\$ 4,150.00 (Single User License)

ID: OB4131B7B1BEN

Abstracts

According to Statistics MRC, the Global Optical Sensing Market is accounted for \$1.20 billion in 2016 and is expected to reach \$3.46 billion by 2023 growing at a CAGR of 16.3% during the forecast period. Expanding interest in R&D activities is the key factor fueling the market growth. However, increasing ventures to grow more reliable sensing devices and accessibility of less expensive non-optical sensors with lesser detecting capacities are hampering the market.

By industry, aerospace and defense segment is commanded the largest market share. This is because industry promptly embraces better sensors in its operations and is likewise helped by the expanded speculations through government budgetary assignments and different financial specialists. By geography, Asia-Pacific is estimated to grow at the maximum rate owing to the developing urbanization in the region and expanded spending to deploy enhanced sensing technologies to monitor the infrastructure in sectors such as utilities and oil & gas.

Some of the key players in Optical Sensing market include Stmicroelectronics N.V., AMS Ag, Rohm Semiconductor, Texas Instruments Inc., Alphasense, Oxsensis Ltd., Fairchild Semiconductor, Teledyne Dalsa Inc., Hamamatsu Photonics K.K., Vishay Intertechnology, Inc., RJC Enterprises, LLC, ABB and Analog Devices, Inc.

Applications Covered:

Biochemical

Temperature Sensing

Biometric and Ambience

Pressure and Strain Sensing

Geological Survey

Other Applications

Flow sensing

Partial discharge detection

Radiation sensing

Methods Covered:

Intrinsic

Fiber Bragg Grating (FBG) Based

Scattering Based

Rayleigh Scattering

Brillouin Scattering

Raman Scattering

Extrinsic

Pyrometers

Encoders

Spectroscopy

Laser Doppler Velocimetry

Fabry–Perot Interferometers

Optical Coherence Tomography

Industries Covered:

Construction

Utilities

Medical

Aerospace and Defense

Consumer Electronics

Oil and Gas

Others Industries

Transportation

Marine

Chemicals

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

France

Italy

UK

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 7 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Contents

1 EXECUTIVE SUMMARY

2 PREFACE

- 2.1 Abstract
- 2.2 Stake Holders
- 2.3 Research Scope
- 2.4 Research Methodology
 - 2.4.1 Data Mining
 - 2.4.2 Data Analysis
 - 2.4.3 Data Validation
 - 2.4.4 Research Approach
- 2.5 Research Sources
 - 2.5.1 Primary Research Sources
 - 2.5.2 Secondary Research Sources
 - 2.5.3 Assumptions

3 MARKET TREND ANALYSIS

- 3.1 Introduction
- 3.2 Drivers
- 3.3 Restraints
- 3.4 Opportunities
- 3.5 Threats
- 3.6 Application Analysis
- 3.7 End User Analysis
- 3.8 Emerging Markets
- 3.9 Futuristic Market Scenario

4 PORTERS FIVE FORCE ANALYSIS

- 4.1 Bargaining power of suppliers
- 4.2 Bargaining power of buyers
- 4.3 Threat of substitutes
- 4.4 Threat of new entrants
- 4.5 Competitive rivalry

5 GLOBAL OPTICAL SENSING MARKET, BY APPLICATION

- 5.1 Introduction
- 5.2 Biochemical
- 5.3 Temperature Sensing
- 5.4 Biometric and Ambience
- 5.5 Pressure and Strain Sensing
- 5.6 Geological Survey
- 5.7 Other Applications
 - 5.7.1 Flow sensing
 - 5.7.2 Partial discharge detection
 - 5.7.3 Radiation sensing

6 GLOBAL OPTICAL SENSING MARKET, BY METHOD

- 6.1 Introduction
- 6.2 Intrinsic
 - 6.2.1 Fiber Braggs Grating (FBG) Based
 - 6.2.1.1 Spatially Continuous Based
 - 6.2.1.2 Point FBG Based
 - 6.2.2 Scattering Based
 - 6.2.2.1 Rayleigh Scattering
 - 6.2.2.2 Brillouin Scattering
 - 6.2.2.3 Raman Scattering
- 6.3 Extrinsic
 - 6.3.1 Pyrometers
 - 6.3.2 Encoders
 - 6.3.3 Spectroscopy
 - 6.3.4 Laser Doppler Velocimetry
 - 6.3.5 Fabry–Perot Interferometers
 - 6.3.6 Optical Coherence Tomography

7 GLOBAL OPTICAL SENSING MARKET, BY INDUSTRY

- 7.1 Introduction
- 7.2 Construction
- 7.3 Utilities
- 7.4 Medical
- 7.5 Aerospace and Defense

7.6 Consumer Electronics

7.7 Oil and Gas

7.8 Others Industries

7.8.1 Transportation

7.8.2 Marine

7.8.3 Chemicals

8 GLOBAL OPTICAL SENSING MARKET, BY GEOGRAPHY

8.1 Introduction

8.2 North America

8.2.1 US

8.2.2 Canada

8.2.3 Mexico

8.3 Europe

8.3.1 Germany

8.3.2 UK

8.3.3 Italy

8.3.4 France

8.3.5 Spain

8.3.6 Rest of Europe

8.4 Asia Pacific

8.4.1 Japan

8.4.2 China

8.4.3 India

8.4.4 Australia

8.4.5 New Zealand

8.4.6 South Korea

8.4.7 Rest of Asia Pacific

8.5 South America

8.5.1 Argentina

8.5.2 Brazil

8.5.3 Chile

8.5.4 Rest of South America

8.6 Middle East & Africa

8.6.1 Saudi Arabia

8.6.2 UAE

8.6.3 Qatar

8.6.4 South Africa

8.6.5 Rest of Middle East & Africa

9 KEY DEVELOPMENTS

9.1 Agreements, Partnerships, Collaborations and Joint Ventures

9.2 Acquisitions & Mergers

9.3 New Product Launch

9.4 Expansions

9.5 Other Key Strategies

10 COMPANY PROFILING

10.1 Stmicroelectronics N.V.

10.2 AMS Ag

10.3 Rohm Semiconductor

10.4 Texas Instruments Inc.

10.5 Alphasense

10.6 Oxsensis Ltd.

10.7 Fairchild Semiconductor

10.8 Teledyne Dalsa Inc.

10.9 Hamamatsu Photonics K.K.

10.10 Vishay Intertechnology, Inc.

10.11 RJC Enterprises, Llc

10.12 ABB

10.13 Analog Devices, Inc.

List Of Tables

LIST OF TABLES

Table 1 Global Optical Sensing Market Outlook, By Region (2014-2023) (\$MN)

Table 2 Global Optical Sensing Market Outlook, By Application (2014-2023) (\$MN)

Table 3 Global Optical Sensing Market Outlook, By Biochemical (2014-2023) (\$MN)

Table 4 Global Optical Sensing Market Outlook, By Temperature Sensing (2014-2023) (\$MN)

Table 5 Global Optical Sensing Market Outlook, By Biometric and Ambience (2014-2023) (\$MN)

Table 6 Global Optical Sensing Market Outlook, By Pressure and Strain Sensing (2014-2023) (\$MN)

Table 7 Global Optical Sensing Market Outlook, By Geological Survey (2014-2023) (\$MN)

Table 8 Global Optical Sensing Market Outlook, By Other Applications (2014-2023) (\$MN)

Table 9 Global Optical Sensing Market Outlook, By Flow sensing (2014-2023) (\$MN)

Table 10 Global Optical Sensing Market Outlook, By Partial discharge detection (2014-2023) (\$MN)

Table 11 Global Optical Sensing Market Outlook, By Radiation sensing (2014-2023) (\$MN)

Table 12 Global Optical Sensing Market Outlook, By Method (2014-2023) (\$MN)

Table 13 Global Optical Sensing Market Outlook, By Intrinsic (2014-2023) (\$MN)

Table 14 Global Optical Sensing Market Outlook, By Fiber Braggs Grating (FBG) Based (2014-2023) (\$MN)

Table 15 Global Optical Sensing Market Outlook, By Spatially Continuous Based (2014-2023) (\$MN)

Table 16 Global Optical Sensing Market Outlook, By Point FBG Based (2014-2023) (\$MN)

Table 17 Global Optical Sensing Market Outlook, By Scattering Based (2014-2023) (\$MN)

Table 18 Global Optical Sensing Market Outlook, By Rayleigh Scattering (2014-2023) (\$MN)

Table 19 Global Optical Sensing Market Outlook, By Brillouin Scattering (2014-2023) (\$MN)

Table 20 Global Optical Sensing Market Outlook, By Raman Scattering (2014-2023) (\$MN)

Table 21 Global Optical Sensing Market Outlook, By Extrinsic (2014-2023) (\$MN)

Table 22 Global Optical Sensing Market Outlook, By Pyrometers (2014-2023) (\$MN)

Table 23 Global Optical Sensing Market Outlook, By Encoders (2014-2023) (\$MN)

Table 24 Global Optical Sensing Market Outlook, By Spectroscopy (2014-2023) (\$MN)

Table 25 Global Optical Sensing Market Outlook, By Laser Doppler Velocimetry (2014-2023) (\$MN)

Table 26 Global Optical Sensing Market Outlook, By Fabry–Perot Interferometers (2014-2023) (\$MN)

Table 27 Global Optical Sensing Market Outlook, By Optical Coherence Tomography (2014-2023) (\$MN)

Table 28 Global Optical Sensing Market Outlook, By Industry (2014-2023) (\$MN)

Table 29 Global Optical Sensing Market Outlook, By Construction (2014-2023) (\$MN)

Table 30 Global Optical Sensing Market Outlook, By Utilities (2014-2023) (\$MN)

Table 31 Global Optical Sensing Market Outlook, By Medical (2014-2023) (\$MN)

Table 32 Global Optical Sensing Market Outlook, By Aerospace and Defense (2014-2023) (\$MN)

Table 33 Global Optical Sensing Market Outlook, By Consumer Electronics (2014-2023) (\$MN)

Table 34 Global Optical Sensing Market Outlook, By Oil and Gas (2014-2023) (\$MN)

Table 35 Global Optical Sensing Market Outlook, By Others Industries (2014-2023) (\$MN)

Table 36 Global Optical Sensing Market Outlook, By Transportation (2014-2023) (\$MN)

Table 37 Global Optical Sensing Market Outlook, By Marine (2014-2023) (\$MN)

Table 38 Global Optical Sensing Market Outlook, By Chemicals (2014-2023) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above

I would like to order

Product name: Optical Sensing - Global Market Outlook (2017-2023)

Product link: <https://marketpublishers.com/r/OB4131B7B1BEN.html>

Price: US\$ 4,150.00 (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/OB4131B7B1BEN.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