

Photonic Sensors and Detectors: Market Research Report

<https://marketpublishers.com/r/P5798F4F126EN.html>

Date: January 2015

Pages: 228

Price: US\$ 4,500.00 (Single User License)

ID: P5798F4F126EN

Abstracts

This report analyzes the worldwide markets for Photonic Sensors and Detectors in US\$ Million. The report provides separate comprehensive analytics for the US, Canada, Japan, Europe, Asia-Pacific, Latin America, and Rest of World. Annual estimates and forecasts are provided for the period 2014 through 2020. Also, a seven-year historic analysis is provided for these markets. Market data and analytics are derived from primary and secondary research. Company profiles are primarily based on public domain information including company URLs. The report profiles 97 companies including many key and niche players such as -

Avago Technologies

Banner Engineering Corp.

Banpil Photonics, Inc.

Baumer Holdings AG

BaySpec, Inc.

Contents

I. INTRODUCTION, METHODOLOGY & PRODUCT DEFINITIONS

Study Reliability and Reporting Limitations
Disclaimers
Data Interpretation & Reporting Level
Quantitative Techniques & Analytics
Product Definitions and Scope of Study

II. EXECUTIVE SUMMARY

1. INDUSTRY OVERVIEW

Photonics Technology – A Background
Photonic Sensors & Detectors - A Prelude
Photonic Sensors & Detectors – A Market Review

Table 1. Combined Market for Photonic Sensors & Detectors - Percentage Share Breakdown of Dollar Sales by Product Segment for Years 2015(E) & 2020(P) (includes corresponding Graph/Chart)

Table 2. Compounded Annual Growth Rate (%) of Dollar Sales for Photonic Sensors & Photonic Detectors for Years 2015 through 2020 (includes corresponding Graph/Chart)

Photonic Sensors & Detectors Market – Fairly Resilient Against Periods of Economic Slowdown
Stabilizing Growth Ahead for Photonic Sensors & Detectors Market
Outlook

2. MARKET TRENDS & GROWTH DRIVERS

Growing Investments in Advanced & Disruptive Technologies Augur Well for the Market
US & Europe Lead in Photonic Sensor Adoption But Developing Markets to Drive Future Growth
Fiber Optic Sensors – The Largest Product Segment
Expanding End-Use Applications of Fiber Optic Sensors
Biophotonic Sensors Set to Gain Significant Traction Over the Next Few Years

Need for Better Safety and Security to Drive Demand for Photonic Sensors
Military & Homeland Security – A Major End-Use Market for Photonic Sensors
Review of Defense Budgets & Implications on Demand for Photonic Sensors this Segment

Table 3. With Over 12% Annual Growth in Military Spending, China & India Offer Robust Opportunities for Photonic Sensors in Military Sector: Breakdown of Military Spending (In US\$ Billion) in Select Countries for the Year 2013 & 2014 (includes corresponding Graph/Chart)

Growing Focus on Factory Automation to Drive Demand for Photonic Sensors in Industrial/ Manufacturing Sector
Photonic Sensors Adds Value to Industrial Process Control
Soft Recovery in Global Manufacturing PMI to Encourage a Gentle Uplift in Sales in Industrial Sector

Table 4. Global Manufacturing PMI: Breakdown of Monthly Index Points for the Period September 2014 to March 2015 (includes corresponding Graph/Chart)

Biomedical Applications to be a Key Focus Areas for Photonic Sensors in Coming Years
Robust Opportunities on Cards for FOS in Bio Medical Applications – A Case in Point
List of Select Commercial Fiber-Optic Biomedical Sensors
Improving Healthcare Expenditure to Drive Adoption of Photonic Sensors in Biomedical Applications

Table 5. With Relatively Higher Healthcare Spending as a Percentage of GDP, North America & Western Europe to Present Strong Opportunities for Photonics in Biomedical Applications: Breakdown of Healthcare Spending as a Percentage of GDP for Select Regions (2015E) (includes corresponding Graph/Chart)

Table 6. Per-Capita Healthcare Expenditure in Select Regions (2014) (includes corresponding Graph/Chart)

Ageing Population to Spruce Up Photonics Development for Biomedical Applications
Demographic Statistics - Opportunity Indicators for Photonics in Biomedical Applications

Table 7. Global Population Statistics for the 65+ Age Group (2013) (includes corresponding Graph/Chart)

Table 8. Elderly Population (60+ Years) as a Percentage of the Total Population (2012 & 2050) (includes corresponding Graph/Chart)

Oil & Gas Sector Presents Broad Range of Application Scenarios for Photonic Sensors
Oil & Gas Sector to Overcome Recent Slowdown in Oil Prices & Exploration
Investments to Provide Healthy Growth Opportunities in Coming years

Table 9. Recent Disruptions in Oil Prices: Breakdown of World Crude Oil (Petroleum) Prices (In US\$) for 2013 to 2015 (includes corresponding Graph/Chart)

Structural Health Monitoring in Smart Structures – Building Opportunities for FOS in Civil Engineering Sector

Steady Pace of Infrastructure Development in Developing Countries to Boost Demand for Fiber Optic Sensors in Smart Structures Segment

Expanding End-Use Applications of Photonic Sensors Bodes Well for Market Future

Dedicated Industry Efforts to Drive Market Prospects

Increasing Merger & Acquisition Deals Aimed at Product Development

R&D Geared towards Product Innovation – Key for Constant Growth

Emergence of Wireless Sensing Technologies to Drive New Opportunities

Standardization and Miniaturization – Key Focus Areas of Product Development Efforts

Reducing Costs – A Key Focus Area for Photonic Sensor R&D

Developments in Silicon Photonics to Bring More Value to Photonic Sensors

Challenges to Reckon With

Lack of Appropriate Industrial/Regulatory Standards

Lack of Awareness

High Initial Costs

Inadequate Resource Pool

Barriers for Biophotonic Sensors in Homeland Security

Competition

3. PRODUCT OVERVIEW

Photonics - An Introduction

Photonic Sensors – A Generic Definition

Types of Photonic Sensors

Fiber Optic Sensors

Image Sensors

Biophotonic Sensors

Photonic Detectors

4. PRODUCT INTRODUCTIONS/INNOVATIONS

Marktech to Launch New Range of Photodetectors

Farsens Releases New UHF RF Field Detector

ID QUANTIQU Introduce Free-Running Single-Photon Detector

DECTRIS Launches Enhanced HPC Detection Technology

Headwall Photonics Releases Nano-Hyperspec Sensor

U2t Photonics Releases Fast Balanced Photo Detector

Laser Components Releases New Count Single-Photon Detector

Hamamatsu Photonics Introduces new 128 x 128 Pixel Two Dimensional InGaAs image sensor

5. RECENT INDUSTRY ACTIVITY

Laser 2000 Inks Distribution Agreement with Headwall Photonics

ON Semiconductor Acquires Truesense

Finisar to Take Over u2t Photonics

Zecotek Imaging Systems Inks Joint Collaboration Partnership Agreement with Hamamatsu Photonics

Lionix, VLC Photonics and PhoeniX Ink Strategic Collaboration Agreement

Open Photonics Inks Pact with VTT Technical Research Centre

6. FOCUS ON SELECT PLAYERS

Avago Technologies (US)

Banner Engineering Corp. (US)

Banpil Photonics, Inc. (US)

Baumer Holdings AG (Switzerland)

BaySpec, Inc. (US)

Brandywine Photonics LLC (US)

Dongbu HiTek Co. Ltd. (Korea)

FUJIFILM Holdings Corporation (Japan)

Hamamatsu Photonics K. K. (Japan)
Honeywell International Inc. (US)
Ibsen Photonics A/S (Denmark)
Mitsubishi Electric Corporation (Japan)
NTT Electronics (Japan)
OMRON Corporation (Japan)
ON Semiconductor Corporation (US)
Prime Photonics, LC (US)
Samsung Electronics Co. Ltd. (South Korea)
Smart Fibres Limited (UK)
Toshiba Corporation (Japan)

7. GLOBAL MARKET PERSPECTIVE

Table 10. World Recent Past, Current & Future Analysis for Photonic Sensors and Detectors by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (Excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 11. World Historic Review for Photonic Sensors and Detectors by Geographic Region - US, Canada, Japan, Europe, Asia-Pacific (Excluding Japan), Latin America and Rest of World Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

Table 12. World 14-Year Perspective for Photonic Sensors and Detectors by Geographic Region - Percentage Breakdown of Dollar Sales for US, Canada, Japan, Europe, Asia-Pacific (Excluding Japan), Latin America and Rest of World Markets for Years 2007, 2015 & 2020 (includes corresponding Graph/Chart)

III. MARKET

1. THE UNITED STATES

A. Market Analysis

Outlook

Overview

US Military/Defense Sector Supports Growth in Photonic Sensors

Improving Industrial Activity Bodes Well for Photonic Sensors
Booming Shale Gas Exploration to Drive Growth in Photonic Sensors Market
Fiber Optic Sensors - Market Overview
Product Introductions/Innovations
Strategic Corporate Development
Select Players
B. Market Analytics

Table 13. US Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 14. US Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

2. CANADA

A. Market Analysis
Outlook
Overview
B. Market Analytics

Table 15. Canadian Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 16. Canadian Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

3. JAPAN

A. Market Analysis
Outlook
Role of Government and Authorities in Strengthening Sensor Technology
Product Introductions/Innovation

Strategic Corporate Development

Select Players

B. Market Analytics

Table 17. Japanese Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 18. Japanese Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

4. EUROPE

A. Market Analysis

Outlook

Overview

Stable Industrial/Manufacturing Outlook Augurs Well for Photonic Sensors & Detectors Market

B. Market Analytics

Table 19. European Recent Past, Current & Future Analysis for Photonic Sensors and Detectors by Geographic Region - France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 20. European Historic Review for Photonic Sensors and Detectors by Geographic Region - France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

Table 21. European 14-Year Perspective for Photonic Sensors and Detectors by Geographic Region - Percentage Breakdown of Dollar Sales for France, Germany, Italy, United Kingdom, Spain, Russia and Rest of Europe Markets for Years 2007, 2015 & 2020 (includes corresponding Graph/Chart)

4A. FRANCE

A. Market Analysis

Outlook

B. Market Analytics

Table 22. French Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 23. French Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

4B. GERMANY

A. Market Analysis

Outlook

German Sensor Market – An Overview

Product Introductions/Innovation

Strategic Corporate Developments

B. Market Analytics

Table 24. German Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 25. German Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

4C. ITALY

A. Market Analysis

Outlook

B. Market Analytics

Table 26. Italian Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 27. Italian Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

4D. THE UNITED KINGDOM

A. Market Analysis

Outlook

Smart Fibres Limited – A Key Player

B. Market Analytics

Table 28. UK Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 29. UK Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

4E. SPAIN

A. Market Analysis

Outlook

Product Introductions/Innovation

B. Market Analytics

Table 30. Spanish Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 31. Spanish Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

4F. RUSSIA

A. Market Analysis

Outlook

B. Market Analytics

Table 32. Russian Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 33. Russian Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

4G. REST OF EUROPE

A. Market Analysis

Outlook

Product Introductions/Innovations

Strategic Corporate Developments

Select Players

B. Market Analytics

Table 34. Rest of Europe Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 35. Rest of Europe Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

5. ASIA-PACIFIC

A. Market Analysis

Outlook

Overview of Sensors Market

B. Market Analytics

Table 36. Asia-Pacific Recent Past, Current & Future Analysis for Photonic Sensors and Detectors by Geographic Region - China, South Korea and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 37. Asia-Pacific Historic Review for Photonic Sensors and Detectors by Geographic Region - China, South Korea and Rest of Asia-Pacific Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

Table 38. Asia-Pacific 14-Year Perspective for Photonic Sensors and Detectors by Geographic Region - Percentage Breakdown of Dollar Sales for China, South Korea and Rest of Asia-Pacific Markets for Years 2007, 2015 & 2020 (includes corresponding Graph/Chart)

5A. CHINA

A. Market Analysis

Outlook

A Look into the Chinese Sensors Market

Fiber Optic Sensors Market in China - Overview

B. Market Analytics

Table 39. Chinese Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 40. Chinese Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

5B. SOUTH KOREA

A. Market Analysis

Outlook

Key Players

B. Market Analytics

Table 41. South Korean Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 42. South Korean Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

5C. REST OF ASIA-PACIFIC

A. Market Analysis

Outlook

B. Market Analytics

Table 43. Rest of Asia-Pacific Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 44. Rest of Asia-Pacific Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

6. LATIN AMERICA

A. Market Analysis

Outlook

B. Market Analytics

Table 45. Latin American Recent Past, Current & Future Analysis for Photonic Sensors and Detectors by Geographic Region - Brazil and Rest of Latin American Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 46. Latin American Historic Review for Photonic Sensors and Detectors by

Geographic Region - Brazil and Rest of Latin American Markets Independently Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

Table 47. Latin American 14-Year Perspective for Photonic Sensors and Detectors by Geographic Region - Percentage Breakdown of Dollar Sales for Brazil and Rest of Latin American Markets for Years 2007, 2015 & 2020 (includes corresponding Graph/Chart)

6A. BRAZIL

A. Market Analysis

Outlook

B. Market Analytics

Table 48. Brazilian Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 49. Brazilian Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

6B. REST OF LATIN AMERICA

A. Market Analysis

Outlook

B. Market Analytics

Table 50. Rest of Latin America Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 51. Rest of Latin America Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

7. REST OF WORLD

A. Market Analysis

Outlook

B. Market Analytics

Table 52. Rest of World Recent Past, Current & Future Analysis for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2014 through 2020 (includes corresponding Graph/Chart)

Table 53. Rest of World Historic Review for Photonic Sensors and Detectors Market Analyzed with Annual Sales Figures in US\$ Million for Years 2007 through 2013 (includes corresponding Graph/Chart)

IV. COMPETITIVE LANDSCAPE

Total Companies Profiled: 97 (including Divisions/Subsidiaries - 105)

The United States (35)

Canada (7)

Japan (10)

Europe (35)

France (1)

Germany (15)

The United Kingdom (2)

Italy (2)

Spain (2)

Rest of Europe (13)

Asia-Pacific (Excluding Japan) (18)

I would like to order

Product name: Photonic Sensors and Detectors: Market Research Report

Product link: <https://marketpublishers.com/r/P5798F4F126EN.html>

Price: US\$ 4,500.00 (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/P5798F4F126EN.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