

Biophotonics – A Global Market Overview

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Abstracts

Biophotonics is a field of science that employs the power of light (in terms of photons) and other types of radiant energy to examine the functional, structural, biological, mechanical and chemical properties of biological materials and systems. Though the initial focus of this technology has been in providing enhanced diagnosis for various health conditions, the current application of Biophotonics in a multitude of verticals, such as agriculture, biotechnology, food diagnostics and therapeutics has been the primary driving force behind its wider adoption. This has been made possible by untiring research efforts aimed at attuning the technology to encompass a wider base of applications in the more promising areas of environment control and monitoring and agriculture and food applications.

Advancements in optical technology, high incidences of chronic diseases and increasing demand for minimally invasive surgeries are also contributing to the growth in Biophotonics. Emerging economies have yet to fully exploit the opportunities offered by Biophotonics, which is slated to propel demand in regions such as Asia-Pacific and Latin America. Despite these developments, it is anticipated that a bulk of the market for Biophotonics would be accounted for by its use in the medical sector. The technology offers capability of addressing some of the essential healthcare needs of an aging global population, which will remain a key factor in bolstering demand. Other significant factors contributing to growth in the market for Biophotonics include ongoing research and development activities in various applications and government support for novel cost-effective medical technologies.

The market for Biophotonics forecast to be US\$36.8 billion in 2017 and projected to reach US\$59.9 billion by 2022 at a CAGR of robust 10.2% between 2017 and 2022. Imaging estimated the largest consumer of biophotonics with market worth US\$20.3 billion 2017 and projected to grow by a CAGR of 10.3% during the same analysis period. Analytics & Sensing applications anticipated to grow at a faster phase at a

CAGR of 10.4% to reach US\$19.4 billion by 2022.

The study exclusively analyzes the Biophotonics applications/sub-types, technologies and application sectors are analyzed in terms of USD for 2014-2022 analysis period across the global markets comprising North America, Europe, Asia-Pacific, Latin America and Rest of World. The regional markets further analyzed for 13 independent countries across North America – The United States and Canada; Europe – France, Germany, Italy, the United Kingdom and Rest of Europe; Asia-Pacific – China, India, Japan, South Korea and Rest of Asia-Pacific; South America – Argentina, Brazil, Mexico and Rest of South America.

Global market for Biophotonics applications analyzed in this study include Analytics & Sensing, Imaging, and Processing & Curing. These applications further categorized in to Analytics & Sensing – Biosensors, Molecular Spectroscopy, Other Analytics & Sensing Applications; Imaging – Inside Imaging (Endoscopy), Optical Microscopy, See-Through Imaging and Surface Imaging; and Processing & Curing – Light Therapy and Other Processing & Curing. The report also explores the global markets of Biophotonics by end-use sectors comprising Medical Diagnostics, Medical Therapeutics, Tests & Components and Non-Medical Applications while special focus on technologies including In Vitro and In Vivo.

This 486 page global biophotonics market research report includes 333 charts (includes a data table and graphical representation for each chart), supported with meaningful and easy to understand graphical presentation, of market numbers. This report profiles 17 key global players and 28 major players across North America – 17; Europe – 6; Asia-Pacific – 4; and Rest of World – 1. The research also provides the listing of the companies engaged in the domain of Biophotonics. The global list of companies covers the address, contact numbers and the website addresses of 119 companies.

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Bio-Rad Laboratories, Inc. (United States)
Biotek Instruments, Inc. (United States)
Carl Zeiss AG (Germany)
Coherent Inc. (United States)
Hamamatsu Photonics K.K. (Japan)
Horiba, Ltd. (Japan)
II-VI Incorporated (United States)
Lumenis Ltd. (Israel)
Newport Corporation (United States)
Olympus Corporation (Japan)
Olympus Corporation of the Americas (United States)
Perkinelmer Inc. (United States)
Picoquant (Germany)
Thermo Fisher Scientific Inc. (United States)
FEI Company, Inc. (United States)
Toshiba Medical Systems Corporation (Japan)
Zecotek Photonics Inc. (Canada)

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Horiba Scientific and Manta Instruments, Inc Enter into Distribution Agreement
PicoQuant Launches Two new Single Photon Sensitive Hybrid Photo Detector
Oxford Instruments Asylum Research Unveils new SurfRider HQ-Series AFM Probes
Beckman Receives FDA Clearance for its DxC 700 AU Chemistry Analyzer

Beckman Unveils CytoFLEX LX flow Cytometer

BioTek Expands in China

ZEISS Unveils ZEISS EXTARO 300 Visual System

ZEISS Introduces ZEISS Crossbeam 550 Image System

Hitachi Technologies Develops new Transmission Electron Microscope (TEM)*1 model, the HT7800 Series

Thermo Fisher Introduces new robust iN5 FTIR microscope

Andor Unveils new iXon Life Camera Platform for Fluorescence Microscopy

Oxford Instruments Asylum Research Releases New Cypher VRS Video-Rate Atomic Force Microscope

Becton Announces Early Access Program for BD Resolve Single-Cell Analysis Platform 510(k) FDA clearance and Worldwide Launch for BIOLASE's Waterlase Express All-Tissue Laser System

Bruker Launches MALDI PharmaPulse 2.0 Screening Solution

FUJIFILM Europe Releases ELUXEO Endoscopy System

GE Healthcare and Boston Children's Hospital Join Forces to Develop Imaging Technology

Andor Launches Ultrafast Spectroscopy-enabled sCMOS Detectors

FDA Clearance and Worldwide Launch of new Epic Pro Diode Laser System from BIOLASE

Bio-Rad to Acquire RainDance Tech

PerkinElmer, Inc Unveils Vectra Polaris Automated Quantitative Pathology Imaging System

Bitplane Launches Imaris 8.4 Filament Tracer

Leica Microsystems Enters into Agreement with Columbia University

Olympus Corporation Launches New Olympus DP74 Color Microscope Camera

Becton Unveils diagnostic instrument BD Phoenix M50 ID/AST

BIOLASE Inks a Clinical Research Agreement with McGuire Institute

Bruker to Acquire Preclinical PET Imaging Business of Oncovision

ENDRA Launches Nexus 128+ photoacoustic Imaging Solution

Shimadzu Corporation Releases SPM-9700HT Scanning Probe Microscope

Ocean Optics Releases New SERS Nanosponge Substrate for Raman Spectroscopy Applications

Andor Introduces Dragonfly, a new Imaging Solution

Bruker Releases In-Vivo Xtreme II Optical Preclinical Imaging System

Oxford Instruments Plc Introduces X-MET8000 series of X-ray fluorescence (XRF) analyzers

Bruker Releases Scanning Microwave Impedance Microscopy Solution

Bruker Unveils S4 TStar, a Total Reflection X-ray Fluorescence (TXRF) Spectrometer

ENDRA and GE Healthcare Collaborate

Thermo Fisher Acquires FEI Company

Olympus Medical Introduces EZ Shot 3 Plus single use Aspiration Needle for Endoscopic Application

BioTek and MilliporeSigma Collaborate

MedCom GmbH and Hitachi Medical Systems Europe Enter into Distribution Agreement

Becton Launches a novel cell analyzer BD FACSymphony system

Bio-Rad Announces CE IVD marking for its QX200 Droplet Digital PCR (ddPCR) System

Biophotonic Unveils new Pulse Shaping System, FemtoJockD

Boston Launches LithoVue Single-Use Digital Flexible Ureteroscope

Nikon Corporation Introduces new Inverted Routine Microscope ECLIPSE Ts2

Andor Launches new Ultrasensitive Zyla 4.2 PLUS Scientific CMOS (sCMOS) Camera

Bruker Launches new SKYSCAN 1275 Automated, Desktop Micro-CT System

Boston Completes the Acquisition of American Medical Systems' (AMS) Men's Health and Prostate Health business

OpGen, Inc. Plans to Acquire AdvanDx, Inc.

OpGen, Inc Launches Next-Generation Molecular Testing and Bioinformatics for Combating Multi-Drug Resistant Infections

Bio-Rad Introduces BioPlex 2200 25-OH Vitamin D kit

Leica Microsystems Unveils Inverted Microscope, Leica DMI8

Boston Introduces Next Generation SpyGlass DS Direct Visualization System

Beckman to Acquire Clinical Microbiology Business from Siemens Healthcare Diagnostics

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Biolase, Inc. (United States)

Biophotonic Solutions, Inc. (United States)

Bio-Rad Laboratories, Inc. (United States)

Biotek Instruments, Inc. (United States)

Bruker Biospin Corporation (United States)

Coherent Inc. (United States)

Glenbrook Technologies, Inc. (United States)

II-VI Incorporated (United States)

Newport Corporation (United States)

Ocean Optics, Inc. (United States)

Olympus Corporation of the Americas (United States)

PerkinElmer Inc. (United States)

Thermo Fisher Scientific Inc. (United States)

FEI Company, Inc. (United States)

Zecotek Photonics Inc. (Canada)

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Carl Zeiss AG (Germany)

Leica Microsystems GmbH (Germany)

Oxford Instruments PLC (United Kingdom)

Andor Technology Ltd. (United Kingdom)

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LUMENIS LTD. (ISRAEL) – A Major Market Player

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