

Biophotonics – A Global Market Overview

“The report reviews, analyzes and projects the global market for Biophotonics, segmented by applications, technologies and end-use sectors for the period 2014-2022.”

Published: May 2017

Report Code: BT017

Pages: 486

Charts: 333

Price: \$4950 Single User License, \$7650 Enterprise License

SUMMARY

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.

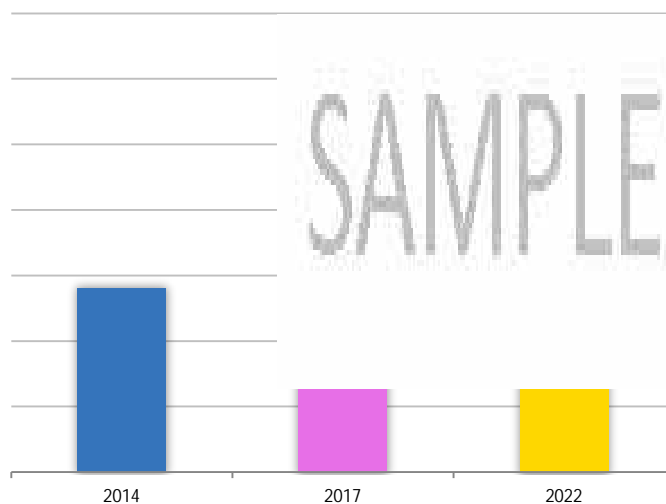
The market for Biophotonics forecast to be US\$36.8 billion in 2017 and projected to reach US\$59.9 billion by 2022 at a CAGR of robust 10.2% between 2017 and 2022. Imaging estimated the largest consumer of biophotonics with market worth US\$20.3 billion 2017 and projected to grow by a CAGR of 10.3% 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.

Global Biophotonics Market Analysis (2014-2022) in USD Million



SAMPLE COMPANY PROFILE

BIOTEK INSTRUMENTS, INC. (UNITED STATES)

100 Tigan Street, Winooski, Vermont 05404, United States
Phone: (888) 451-5171, Fax: (802) 655-7941
Website: www.biotek.com

Business Overview

BioTek Instruments, Inc. is a life science instrumentation company based in Vermont, United States. BioTek is engaged in the research and development, production, and distribution of progressive life science instrumentation, including automated cell imagers, cell imaging multi-mode readers, hybrid multi-mode microplate readers, multi-mode microplate readers, fluorescence and absorbance microplate readers, microplate washers, microplate pipetting systems, microplate stackers, and automated incubators. The products offered by the company allow life science research by offering superior performance, cost-effective analysis and quantification of biomolecules, biomolecular interactions and cellular structure and function over various applications.

Product Portfolio

The company offers a range of life science instrumentation, covering imaging & microscopy instrumentation, microplate detection instruments, liquid handling technologies, and software & robotic instruments.

Product	Particulars
Imaging & Microscopy	Automates image capture and analysis workflows, with a system for meeting every budget Includes automated cell imagers comprising Lionheart FX automated microscope, and BioSpa live cell imaging system; and cell imaging multi-mode readers including Cytation 5 and Cytation 3 cell imaging multi-mode readers
Detection	Encompasses multi-mode microplate readers comprising Synergy Neo2 hybrid multi-mode reader, Cytation hybrid multi-mode reader, Synergy H1 hybrid multi-mode reader, Synergy 2 multi-mode reader, and Synergy HTX multi-mode reader; microplate readers including PowerWave HT microplate spectrophotometer, Epoch 2 microplate spectrophotometer, FLx800 fluorescence reader, Epoch microplate spectrophotometer, ELx808 absorbance reader and ELx800 absorbance reader; and Take3 micro-volume plates
Liquid Handling	Comprises multi-mode washer dispensers including EL406 washer dispenser, and MultiFlo FX multi-mode dispenser; microplate washers comprising 405 TS washer, 405 LS washer, ELx405 Select Deep Well washer, and ELx50 washer; microplate dispensers comprising MultiFlo FX multi-mode dispenser, and MicroFill dispenser; and microplate pipetting systems including precision pipetting system
Software & Robotics	encompasses software such as Gen5 microplate reader and image software, and liquid handling control (LHC) software; and robotics comprising BioSpa 8 automated incubator, and BioStack microplate stacker
Accessories	Covers adapters and labware holders, BioSpa 8 integration kits, BioStack integration kits, bottles & tubing, cables, cassettes, dispense/waste systems, filter accessories, filter cubes, filters, imaging filter cubes, imaging led cubes, imaging objectives, lamps, manifolds, mirrors, miscellaneous, operators manual, pipette tips, product qualification packages, reagent injector assembly, reagent injector options, software options, Take3 micro-volume plate, test plates & reagents, and waste systems
Technologies	Include imaging and detection technologies comprising Augmented Microscopy™, 4-Zone™ Incubation and Condensation Control™, Hybrid Technology™ (Patented Technology), and Laser Autofocus (Patent Pending); and liquid handling technologies including Dual-Action™ Manifold (Patented Technology), Ultrasonic Advantage™ (Patented Technology), Verify™ Technology (Patented Technology), RAD Technology, and Parallel Dispense™

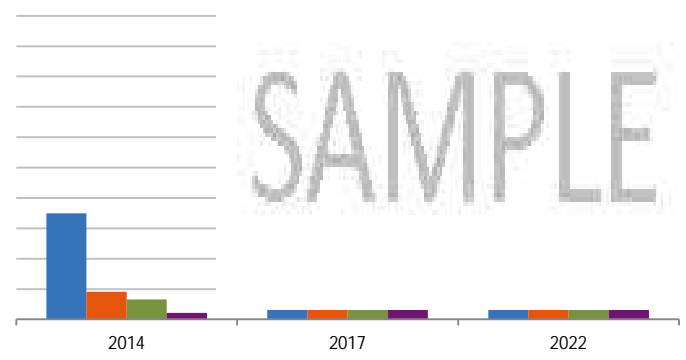
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SAMPLE TABLE/CHART

Glance at 2017 Global Biophotonics Market Share (%) by Geographic Region – North America, Europe, Asia-Pacific, Latin America and Rest of World



Asia-Pacific Biophotonics Market Analysis (2014-2022) by End-Use Sector – Medical Diagnostics, Medical Therapeutics, Tests & Components and Non-Medical Applications in USD Million



KEY PLAYERS PROFILED

- Becton, Dickinson and Company
- Biolase, Inc.
- Biophotonic Solutions, Inc.
- Bio-Rad Laboratories, Inc.
- Biotek Instruments, Inc.
- Bruker Biospin Corporation
- Carl Zeiss AG
- Coherent Inc.
- FEI Company, Inc.
- Glenbrook Technologies, Inc
- Hamamatsu Photonics K.K.
- Horiba, Ltd.
- II-VI Incorporated
- Leica Microsystems GmbH
- Lumenis Ltd.
- Newport Corporation
- Ocean Optics, Inc.
- Olympus Corporation
- Olympus Corporation of the Americas
- Oxford Instruments PLC
- PerkinElmer Inc.
- Picoquant
- Thermo Fisher Scientific Inc.
- Toshiba Medical Systems Corporation
- Zecotek Photonics Inc.
- Zenalux Biomedical, Inc.

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