

Neurophotonics: Global Markets and Technologies to 2023

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Abstracts

REPORT SCOPE:

This report provides an updated review of neurophotonics technologies, including a description of various devices, and identifies current and emerging technologies used in different neurology fields.

BCC Research delineates the current market status for these products, defines trends and presents growth forecasts for the next five years. The neurophotonics market is based on four segments: system type, application, neurological disorder and region. In addition, technological issues, including key events and the latest developments, are discussed.

More specifically, the market analysis conducted by BCC Research for this report appears over five chapters.

Chapter 3 of the report introduces the topic and a historical review of neurophotonics technologies, including an outline of recent events. This chapter identifies the main neurological conditions that are currently being evaluated or treated using these systems.

Chapter 4 provides a technological review of various types of optical systems for neurophotonics, together with their primary features and uses. This chapter concludes with an analysis of the most important technological developments since 2016, including examples of significant patents recently issued or applied. The chapter ends by listing the most active research organizations operating in this field and their activities.

Chapter 5 entails a global market analysis of neurophotonics technologies. Global revenues (sales data in millions of dollars) are presented for each segment (system type, application, neurological condition and region), with actual data for 2016 and 2017 and estimates for 2018. Dollar figures refer to sales of these systems at the manufacturing level.

The analysis of current revenues for neurophotonics technologies is followed by a detailed presentation of market growth trends, based on industry growth, technological trends and regional trends. The third section concludes by providing projected revenues for optical systems used in neurophotonics within each segment, together with forecast compound annual growth rates (CAGRs) for the period of 2018 through 2023. Projected and forecast revenue values are in constant U.S. dollars, unadjusted for inflation.

Chapter 6, which covers global industry structure, lists the leading manufacturers of neurophotonics systems, along with a description of their products. The analysis provides the geographical distribution of these firms and an evaluation of other key industry players. Company profiles of the top players are also provided.

Chapter 7 includes an analysis of recently issued U.S. patents, with a summary of patents related to fabrication processes, methods for using neurophotonics systems and applications. Patent analysis is performed by region, country, assignee, patent category, system type and application.

REPORT INCLUDES:

55 data tables and 20 additional tables

A detailed overview of technologies and markets for neurophotonics within the industry

Analyses of global market trends with data from 2017 to 2018, and projections of compound annual growth rates (CAGRs) through 2023

Identification of important technology and industry trends within each market segment

Information on new technological developments related to neurophotonics systems, while outlining current technical issues

Description of the most relevant R&D activities and examination of trends in recently issued U.S. patents

Company profiles of the leading market players, including Bruker Scientific, Carl Zeiss, Hitachi, Horiba, Leica Microsystems and Thermo Fisher Scientific

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