

# **Deep Brain Stimulation Market Report by Stimulation Type (Subthalamic DBS, Globus Pallidus DBS, Thalamic DBS, Pedunculopontine Nucleus DBS), Product (Single Channel Deep Brain Stimulator, Dual Channel Deep Brain Stimulator), Application (Parkinson's Disease (PD), Epilepsy, Dystonia, Obsessive Compulsive Disorder (OCD), and Others), End-User (Hospitals, Ambulatory Surgical Centers, Neurological Centers, and Others), and Region 2024-2032**

<https://marketpublishers.com/r/D159E09F8937EN.html>

Date: March 2024

Pages: 135

Price: US\$ 3,899.00 (Single User License)

ID: D159E09F8937EN

## **Abstracts**

The global deep brain stimulation market size reached US\$ 1.3 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 2.6 Billion by 2032, exhibiting a growth rate (CAGR) of 8.3% during 2024-2032. The rising occurrence of various motor and neurological disorders among the masses, growing acceptance of minimally invasive (MI) surgical methods, and construction of hospitals, nursing homes, and clinics across the globe represent some of the key factors driving the market.

Deep brain stimulation (DBS) refers to the surgical procedure that aids in treating various neurological and movement-associated disorders, such as Parkinson's disease, epilepsy, dystonia, and obsessive-compulsive disorder (OCD). It involves implanting electrodes within certain areas of the brain to produce electrical impulses for regulating abnormal impulses in the brain. It relies on a pacemaker-like device, called a programmable generator, placed under the skin of the upper chest of the patient along with a wire that connects the device to the electrodes. It blocks the formation of

neurological dysfunction, causing impulses, and aids the brain in functioning effectively. It helps patients handle tremors, stiffness, and dyskinesias without fully relying on high doses of medications. It is employed in the treatment of Tourette syndrome, Huntington's disease, chorea, cluster headaches, and chronic pain. It is also utilized when medications are no longer effective for patients in maintaining a good quality of life. Furthermore, as DBS directly alters brain activity in a controlled manner, it is recommended by neurosurgeons, neurologists, neuropsychologists, and psychiatrists around the world.

### Deep Brain Stimulation Market Trends:

At present, the increasing demand for DBS due to the rising occurrence of various motor and neurological disorders among the masses represents one of the primary factors influencing the market positively. Besides this, the growing acceptance of minimally invasive (MI) surgical methods to reduce post-operative scarring, minimize the cost of medical bills, and decrease the duration of hospital stays is offering a favorable market outlook. Additionally, there is an increase in the construction of hospitals, nursing homes, and clinics to provide quality healthcare services to patients across the globe. This, along with the rising number of advancements made in improving the treatment and diagnosis of various neurological and psychological disorders, is propelling the growth of the market. Apart from this, the increasing awareness about the benefits of DBS and early detection of neurological complications, along with the rising geriatric population worldwide, is supporting the growth of the market. In addition, the rising occurrence of various lifestyle disorders and hypertension-induced depression among working individuals is strengthening the market growth. Moreover, key market players are incorporating artificial intelligence (AI) and the internet of things (IoT) in DBS systems to create robot-assisted implantations and multitarget stimulations.

### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global deep brain stimulation market report, along with forecasts at the global and regional level from 2024-2032. Our report has categorized the market based on stimulation type, product, application, and end-user.

### Stimulation Type Insights:

#### Subthalamic DBS

Globus Pallidus DBS

Thalamic DBS

Pedunculopontine Nucleus DBS

The report has provided a detailed breakup and analysis of the deep brain stimulation market based on the stimulation type. This includes subthalamic DBS, globus pallidus DBS, thalamic DBS, and pedunculopontine nucleus DBS.

Product Insights:

Single Channel Deep Brain Stimulator

Dual Channel Deep Brain Stimulator

A detailed breakup and analysis of the deep brain stimulation market based on the product has also been provided in the report. This includes single channel deep brain stimulator and dual channel deep brain stimulator. According to the report, dual channel deep brain stimulator accounted for the largest market share.

Application Insights:

Parkinson's Disease (PD)

Epilepsy

Dystonia

Obsessive Compulsive Disorder (OCD)

Others

A detailed breakup and analysis of the deep brain stimulation market based on the application has also been provided in the report. This includes Parkinson's disease (PD), epilepsy, dystonia, obsessive compulsive disorder (OCD), and others. According to the report, Parkinson's disease (PD) accounted for the largest market share.

End-User Insights:

Hospitals

Ambulatory Surgical Centers

Neurological Centers

Others

A detailed breakup and analysis of the deep brain stimulation market based on the end-

user has also been provided in the report. This includes hospitals, ambulatory surgical centers, neurological centers, and others. According to the report, hospitals accounted for the largest market share.

#### Regional Insights:

North America

Europe

Asia Pacific

Middle East and Africa

Latin America

The report has also provided a comprehensive analysis of all the major regional markets, which include North America, Europe, Asia Pacific, the Middle East and Africa, and Latin America. According to the report, North America was the largest market for deep brain stimulation. Some of the factors driving the North America deep brain stimulation market included the growing investment in the medical sector, rising construction of healthcare facilities, increasing occurrence of various neurological conditions among the masses, etc.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global deep brain stimulation market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. Some of the companies covered include Boston Scientific, Medtronic, St. Jude Medical, Aleva Neurotherapeutics, Beijing Pins Medical, NeuroPace, Neuro Sigma, etc. Kindly note that this only represents a partial list of companies, and the complete list has been provided in the report.

#### Key Questions Answered in This Report:

How has the global deep brain stimulation market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the global deep brain stimulation market?

What is the impact of each driver, restraint, and opportunity on the global deep brain

stimulation market?

What are the key regional markets?

Which countries represent the most attractive deep brain stimulation market?

What is the breakup of the market based on the stimulation type?

Which is the most attractive stimulation type in the deep brain stimulation market?

What is the breakup of the market based on the product?

Which is the most attractive product in the deep brain stimulation market?

What is the breakup of the market based on the application?

Which is the most attractive application in the deep brain stimulation market?

What is the breakup of the market based on the end-user?

Which is the most attractive end-user in the deep brain stimulation market?

What is the competitive structure of the global deep brain stimulation market?

Who are the key players/companies in the global deep brain stimulation market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL DEEP BRAIN STIMULATION MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Stimulation Type
- 5.5 Market Breakup by Product
- 5.6 Market Breakup by Application
- 5.7 Market Breakup by End-User
- 5.8 Market Breakup by Region
- 5.9 Market Forecast

### **6 MARKET BREAKUP BY STIMULATION TYPE**

- 6.1 Subthalamic DBS
  - 6.1.1 Market Trends

- 6.1.2 Market Forecast
- 6.2 Globus Pallidus DBS
  - 6.2.1 Market Trends
  - 6.2.2 Market Forecast
- 6.3 Thalamic DBS
  - 6.3.1 Market Trends
  - 6.3.2 Market Forecast
- 6.4 Pedunculo pontine Nucleus DBS
  - 6.4.1 Market Trends
  - 6.4.2 Market Forecast

## **7 MARKET BREAKUP BY PRODUCT**

- 7.1 Single Channel Deep Brain Stimulator
  - 7.1.1 Market Trends
  - 7.1.2 Market Forecast
- 7.2 Dual Channel Deep Brain Stimulator
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast

## **8 MARKET BREAKUP BY APPLICATION**

- 8.1 Parkinson's Disease (PD)
  - 8.1.1 Market Trends
  - 8.1.2 Market Forecast
- 8.2 Epilepsy
  - 8.2.1 Market Trends
  - 8.2.2 Market Forecast
- 8.3 Dystonia
  - 8.3.1 Market Trends
  - 8.3.2 Market Forecast
- 8.4 Obsessive Compulsive Disorder (OCD)
  - 8.4.1 Market Trends
  - 8.4.2 Market Forecast
- 8.5 Others
  - 8.5.1 Market Trends
  - 8.5.2 Market Forecast

## **9 MARKET BREAKUP BY END-USER**

## 9.1 Hospitals

### 9.1.1 Market Trends

### 9.1.2 Market Forecast

## 9.2 Ambulatory Surgical Centers

### 9.2.1 Market Trends

### 9.2.2 Market Forecast

## 9.3 Neurological Centers

### 9.3.1 Market Trends

### 9.3.2 Market Forecast

## 9.4 Others

### 9.4.1 Market Trends

### 9.4.2 Market Forecast

## **10 MARKET BREAKUP BY REGION**

### 10.1 North America

#### 10.1.1 Market Trends

#### 10.1.2 Market Forecast

### 10.2 Europe

#### 10.2.1 Market Trends

#### 10.2.2 Market Forecast

### 10.3 Asia Pacific

#### 10.3.1 Market Trends

#### 10.3.2 Market Forecast

### 10.4 Middle East and Africa

#### 10.4.1 Market Trends

#### 10.4.2 Market Forecast

### 10.5 Latin America

#### 10.5.1 Market Trends

#### 10.5.2 Market Forecast

## **11 SWOT ANALYSIS**

### 11.1 Overview

### 11.2 Strengths

### 11.3 Weaknesses

### 11.4 Opportunities

### 11.5 Threats



## **12 VALUE CHAIN ANALYSIS**

## **13 PORTER'S FIVE FORCES ANALYSIS**

### 13.1 Overview

### 13.2 Bargaining Power of Buyers

### 13.3 Bargaining Power of Suppliers

### 13.4 Degree of Competition

### 13.5 Threat of New Entrants

### 13.6 Threat of Substitutes

## **14 PRICE ANALYSIS**

## **15 COMPETITIVE LANDSCAPE**

### 15.1 Market Structure

### 15.2 Key Players

### 15.3 Profiles of Key Players

#### 15.3.1 Boston Scientific

#### 15.3.2 Medtronic

#### 15.3.3 St. Jude Medical

#### 15.3.4 Aleva Neurotherapeutics

#### 15.3.5 Beijing Pins Medical

#### 15.3.6 NeuroPace

#### 15.3.7 Neuro Sigma

## List Of Tables

### LIST OF TABLES

Table 1: Global: Deep Brain Stimulation Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Deep Brain Stimulation Market Forecast: Breakup by Stimulation Type (in Million US\$), 2024-2032

Table 3: Global: Deep Brain Stimulation Market Forecast: Breakup by Product (in Million US\$), 2024-2032

Table 4: Global: Deep Brain Stimulation Market Forecast: Breakup by Application (in Million US\$), 2024-2032

Table 5: Global: Deep Brain Stimulation Market Forecast: Breakup by End-User (in Million US\$), 2024-2032

Table 6: Global: Deep Brain Stimulation Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 7: Global: Deep Brain Stimulation Market: Competitive Structure

Table 8: Global: Deep Brain Stimulation Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Deep Brain Stimulation Market: Major Drivers and Challenges

Figure 2: Global: Deep Brain Stimulation Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Deep Brain Stimulation Market: Breakup by Stimulation Type (in %), 2023

Figure 4: Global: Deep Brain Stimulation Market: Breakup by Product (in %), 2023

Figure 5: Global: Deep Brain Stimulation Market: Breakup by Application (in %), 2023

Figure 6: Global: Deep Brain Stimulation Market: Breakup by End-User (in %), 2023

Figure 7: Global: Deep Brain Stimulation Market: Breakup by Region (in %), 2023

Figure 8: Global: Deep Brain Stimulation Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 9: Global: Deep Brain Stimulation Industry: SWOT Analysis

Figure 10: Global: Deep Brain Stimulation Industry: Value Chain Analysis

Figure 11: Global: Deep Brain Stimulation Industry: Porter's Five Forces Analysis

Figure 12: Global: Deep Brain Stimulation (Subthalamic DBS) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Deep Brain Stimulation (Subthalamic DBS) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Deep Brain Stimulation (Globus Pallidus DBS) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Deep Brain Stimulation (Globus Pallidus DBS) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Deep Brain Stimulation (Thalamic DBS) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Deep Brain Stimulation (Thalamic DBS) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Deep Brain Stimulation (Pedunclopontine Nucleus DBS) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: Deep Brain Stimulation (Pedunclopontine Nucleus DBS) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Global: Deep Brain Stimulation (Single Channel Deep Brain Stimulator) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Deep Brain Stimulation (Single Channel Deep Brain Stimulator) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 22: Global: Deep Brain Stimulation (Dual Channel Deep Brain Stimulator)

Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Deep Brain Stimulation (Dual Channel Deep Brain Stimulator) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Deep Brain Stimulation (Parkinson's Disease) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Deep Brain Stimulation (Parkinson's Disease) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: Deep Brain Stimulation (Epilepsy) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: Deep Brain Stimulation (Epilepsy) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Global: Deep Brain Stimulation (Dystonia) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Global: Deep Brain Stimulation (Dystonia) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Global: Deep Brain Stimulation (Obsessive Compulsive Disorder) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Global: Deep Brain Stimulation (Obsessive Compulsive Disorder) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Global: Deep Brain Stimulation (Other Applications) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Global: Deep Brain Stimulation (Other Applications) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Global: Deep Brain Stimulation (Hospitals) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Global: Deep Brain Stimulation (Hospitals) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: Global: Deep Brain Stimulation (Ambulatory Surgical Centers) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: Global: Deep Brain Stimulation (Ambulatory Surgical Centers) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: Global: Deep Brain Stimulation (Neurological Centers) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: Global: Deep Brain Stimulation (Neurological Centers) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: Global: Deep Brain Stimulation (Other End-Users) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: Global: Deep Brain Stimulation (Other End-Users) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 42: North America: Deep Brain Stimulation Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: North America: Deep Brain Stimulation Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: Europe: Deep Brain Stimulation Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: Europe: Deep Brain Stimulation Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Asia Pacific: Deep Brain Stimulation Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Asia Pacific: Deep Brain Stimulation Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: Middle East and Africa: Deep Brain Stimulation Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: Middle East and Africa: Deep Brain Stimulation Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: Latin America: Deep Brain Stimulation Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: Latin America: Deep Brain Stimulation Market Forecast: Sales Value (in Million US\$), 2024-2032

## I would like to order

Product name: Deep Brain Stimulation Market Report by Stimulation Type (Subthalamic DBS, Globus Pallidus DBS, Thalamic DBS, Pedunculo pontine Nucleus DBS), Product (Single Channel Deep Brain Stimulator, Dual Channel Deep Brain Stimulator), Application (Parkinson's Disease (PD), Epilepsy, Dystonia, Obsessive Compulsive Disorder (OCD), and Others), End-User (Hospitals, Ambulatory Surgical Centers, Neurological Centers, and Others), and Region 2024-2032

Product link: <https://marketpublishers.com/r/D159E09F8937EN.html>

Price: US\$ 3,899.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/D159E09F8937EN.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