

Global Portable Brain Computer Interface Devices Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Portable Brain Computer Interface Devices market size was valued at US\$ 468 million in 2024 and is forecast to a readjusted size of USD 1123 million by 2031 with a CAGR of 13.5% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A portable Brain-Computer Interface (BCI) device is an apparatus that establishes an information exchange pathway between the human or animal brain and external devices. Compared to traditional BCI devices, it is lightweight, portable, easy to use, and wearable, enabling users to interact with external devices in a relatively unrestrained state. In particular, non-invasive devices are typically integrated with the human body through wearable methods such as head-mounted or adhesive applications, significantly lowering the threshold for usage.

Market Key Players and Development Trends

Internationally, key players include Emotiv Inc. (San Francisco, USA), Synchron (New York, USA), and InteraXon (Toronto, Canada). InteraXon's Muse EEG headband is one of the non-invasive BCI products available. Domestic enterprises include BrainCo (Beijing), Zdeer (Wuhan), and Genlight (Hangzhou). Genlight's Epilcure is one of the invasive BCI products used to treat refractory epilepsy, which has achieved significant results in formal clinical trials. Stonehill's YanSi Brain Artificial Intelligence Research

Institute is dedicated to research in cutting-edge fields such as brain state analysis and diagnosis and intervention of non-organic major brain diseases. On November 22, Stonehill Tech announced that some commercial products based on real-time closed-loop brainwave regulation technology have completed principle testing and entered the engineering verification testing phase.

The market size of portable BCI devices is expected to show a trend of continuous growth in the future. With advancements in engineering technology, BCI technology continues to evolve, improving its reliability and ease of use. Meanwhile, the accuracy and speed of BCI technology are also increasing, with improvements in instruments and algorithms contributing to this enhancement.

Market Challenges and Opportunities

BCI is a deeply integrated interdisciplinary technology. Although significant progress has been made, many technical challenges remain to be overcome, and the demand for more natural and complex interactions is difficult to meet. Additionally, BCI involves ethical issues such as personal privacy and maintaining brain autonomy, and relevant laws and regulations are incomplete. In particular, the medical field, where BCI has already been widely applied, still lacks clear standards. The public's understanding and acceptance of this technology are still relatively low.

In terms of opportunities, the growing medical demand is one of the driving factors for market development. The large number of patients with neurological diseases such as Alzheimer's and Parkinson's globally, the gradually increasing aging population, and the rising incidence of degenerative diseases will drive the deepening application of BCI in the medical and healthcare field. An increasing number of companies, including technology giants, startups, and traditional medical equipment manufacturers, are joining the research and development of BCI, intensifying competition and cooperation. With the continuous development of artificial intelligence technologies such as machine learning and deep learning, decoding algorithms have been optimized. The complementarity of resources and advantages among enterprises will contribute to the growth of the market size. On April 26, 2024, the '2024 Zhongguancun Forum | Brain-Computer Interface Innovation Development and Application Forum' themed 'Brain-Computer Connection, Intelligent Integration' was held in Beijing. The forum released the 'Top Ten Cases of Brain-Computer Interface Industry Innovation in 2024,' showcasing China's innovations in BCI technology and industrial applications.

Furthermore, policy support is a significant driving force for the development of portable

BCI devices. Taking Beijing as an example, the 'Action Plan for Accelerating the Development of the Brain-Computer Interface Industry in Beijing (2024-2030) (Consultation Draft)' proposes that by 2030, the scale of Beijing's BCI industry will reach 300 billion yuan, becoming an important growth point for the future industrial economy. Among them, the development of lightweight, portable, easy-to-use, comfortable, and reliable wearable non-invasive brain signal acquisition and recording devices is one of the important directions for promoting industrial development. This will also expand the consumption and application scenarios of portable BCI devices.

This report is a detailed and comprehensive analysis for global Portable Brain Computer Interface Devices market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Portable Brain Computer Interface Devices market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Portable Brain Computer Interface Devices market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Portable Brain Computer Interface Devices market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Portable Brain Computer Interface Devices market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Portable Brain Computer Interface Devices
To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Portable Brain Computer Interface Devices market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Zdeer, DEAYEA, CUSOFT, BrainCo, Genlight, Stonehill Tech, Neurable, Emotiv Inc., Synchron, Neuralink, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Portable Brain Computer Interface Devices market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Invasive

Non-invasive

Market segment by Application

Life Assistance

Medical Rehabilitation

Games and Entertainment

Others

Major players covered

Zdeer

DEAYEA

CUSOFT

BrainCo

Genlight

Stonehill Tech

Neurable

Emotiv Inc.

Synchron

Neuralink

OpenBCI

InteraXon

Neurosky

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Portable Brain Computer Interface Devices product scope,

Global Portable Brain Computer Interface Devices Market 2025 by Manufacturers, Regions, Type and Application,...

market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Portable Brain Computer Interface Devices, with price, sales quantity, revenue, and global market share of Portable Brain Computer Interface Devices from 2020 to 2025.

Chapter 3, the Portable Brain Computer Interface Devices competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Portable Brain Computer Interface Devices breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Portable Brain Computer Interface Devices market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Portable Brain Computer Interface Devices.

Chapter 14 and 15, to describe Portable Brain Computer Interface Devices sales channel, distributors, customers, research findings and conclusion.

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