

Global Brain Computer Interface Market Growth (Status and Outlook) 2024-2030

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Abstracts

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According to this study, the global Brain Computer Interface market size will reach US\$ 449.4 million by 2030.

A brain computer interface (BCI) is a revolutionary system that facilitates a direct communication pathway between a functional brain and peripheral electronic devices that are used to calibrate the movement in physically challenged individuals. A brain computer interface system records the brain signal from the surface of the cortex, through signaling devices implanted within the brain or from the sensors placed over the scalp.

These signals are then transmitted to the connected peripheral device that enables the operator to perform numerous tasks. With the help of a brain computer interface system, the paralyzed and handicapped individuals can overcome their physical challenges and perform various day-to-day tasks. The primary function of a brain computer interface device is to intercept the electrical signals that pass between the neurons and transmit them to an external device. Brain computer interface (BCI) is also referred to as a brain machine interface (BMI), direct neural interface (DNI), or mind machine interface (MMI).

Numerous technological developments in the field of computation, human sensing, along with the application of brain computer interface technology for entertainment, gaming, communication, and control, are some of the major factors that drive the growth of the brain computer interface market size. Intensive research carried out to develop a cure for paralyzing brain disorders and injuries is likely to boost the brain computer

interface market. However, the ethical problem faced during the research, i.e. use of brain computer interface on patients whose informed consent cannot be obtained, can act as a restraint for the brain computer interface industry.

This report presents a comprehensive overview, market shares, and growth opportunities of Brain Computer Interface market by product type, application, key players and key regions and countries.

Segmentation by product type:

Invasive

Non-invasive

Partially invasive

Segmentation by Application:

Healthcare

Communication and control

Entertainment and gaming

Smart home control

Others

This report also splits the market by region:

United States

China

Europe

Other regions:

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

Nihon Kohden Corporation

Mind Solutions

Advanced Brain Monitoring

Quantum Applied Science and Research

Cadwell Laboratories

OpenBCI

Cortech Solutions

NeuroSky

Emotiv

Guger Technologies OEG

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