

Europe Electroencephalography Devices Market Size, Share & Trends Analysis Report By Product (32-Channel, Multichannel), By Type, By Application (Trauma & Surgery, Disease Diagnosis), By End-use, By Country, And Segment Forecasts, 2024 - 2030

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Abstracts

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Europe Electroencephalography Devices Market Growth & Trends

The Europe electroencephalography devices market is anticipated to reach USD 625.8 million by 2030, exhibiting a CAGR of 10.11% from 2024 to 2030, according to a new report by Grand View Research, Inc. The market is driven by the increasing prevalence of neurological disorders, advancements in EEG technology, and growing awareness about mental health.

The rising incidence of neurological disorders, such as epilepsy, Alzheimer's disease, and other dementias, is a major driver for the electroencephalography devices market in Europe. According to the European Brain Council, neurological disorders affect approximately 165 million Europeans, highlighting a critical need for effective diagnostic tools. Furthermore, the growing geriatric population, which is more susceptible to such disorders, is fueling market growth.

Technological advancements in electroencephalography (EEG) devices are playing a crucial role in market expansion. The development of portable and wireless EEG devices has enhanced the ease of use and patient comfort, thereby increasing the adoption of these devices. Additionally, integration with artificial intelligence (AI) and machine learning (ML) for better data analysis and interpretation is a notable trend,

providing more accurate and faster diagnosis.

Wearable EEG devices, such as the Emotiv Epoc+ and the Muse headband, are gaining popularity due to their convenience and ability to monitor brain activity in real-time. These innovations are not only improving patient outcomes but also expanding the application of EEG devices beyond clinical settings to areas like neuromarketing and cognitive research. The increasing focus on mental health is opening new avenues for the EEG devices market.

Governments and healthcare organizations are investing in mental health infrastructure, creating opportunities for market players. The European Union's initiatives for mental health and well-being, including funding for research and innovation in mental health technologies, are expected to drive market growth. Moreover, the COVID-19 pandemic has accelerated the adoption of telemedicine and remote monitoring solutions. EEG devices compatible with telehealth platforms are witnessing higher demand, providing significant growth opportunities for manufacturers.

Europe Electroencephalography Devices Market Report Highlights

- By product, Europe market is categorized into 8-channel EEG, 21-channel EEG, 25-channel EEG, 32-channel EEG, 40-channel EEG, and Multichannel EEG. The 32-channel EEG segment dominated the market in 2023 by capturing a share of around 27.7% and is further expected to continue its dominance over the forecast period.
- By type, the market is classified into standalone devices, portable devices, and wearable devices. The standalone devices segment held the largest market share of 71.9% in 2023 and is expected to continue its dominance over the forecast period.
- By application, the industry is classified into trauma & surgery, disease diagnosis, anesthesia monitoring, sleep monitoring, and others. The disease diagnosis segment held the largest market share of about 32.0% in Europe's market. EEG devices offer valuable insights into brain function and activity by detecting and recording the electrical signals generated by neurons in the brain.
- By end use, the market is segmented into hospitals, diagnostics centers, and others. Among these, Hospitals held the largest market share of about 67.8% in 2023.
- Furthermore, Germany's market dominated by capturing the highest revenue share in 2023 owing to its well-established healthcare infrastructure, high diabetes prevalence,

and strong presence of leading market players.

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