+357 96 030922
info@marketpublishers.com

Electroencephalography Devices Market Forecasts to 2032 – Global Analysis By Product Type (8-channel EEG, 21-channel EEG, 25-channel EEG, 32-channel EEG, 40-channel EEG and Multichannel EEG), Device Type (Standalone Devices, Portable Devices and Wearable Devices), Application and End User and By Geography

https://marketpublishers.com/r/EE859BDF4555EN.html
Date: April 2025
Pages: 150
Price: US$ 4,150.00 (Single User License)
ID: EE859BDF4555EN

Abstracts

According to Stratistics MRC, the Global Electroencephalography Devices Market is accounted for $1.5 billion in 2025 and is expected to reach $3.2 billion by 2032 growing at a CAGR of 11.8% during the forecast period. Electroencephalography (EEG) devices are medical instruments used to measure and record electrical activity in the brain. They detect brain wave patterns through electrodes placed on the scalp, aiding in diagnosing neurological conditions like epilepsy, sleep disorders, and brain injuries. EEG devices range from portable to clinical-grade systems and are essential in research, neurology, and cognitive studies for monitoring brain function and assessing abnormalities in neural activity.

According to the Centers for Disease Control and Prevention (CDC), in 2022, over 5.1 million people in the U.S. had a history of epilepsy, with 3.4 million currently affected.

Market Dynamics:

Driver:

Increasing prevalence of neurological disorders

+357 96 030922
info@marketpublishers.com

The rising incidence of neurological conditions such as epilepsy, Alzheimer's, and Parkinson's disease significantly drives the demand for EEG devices. Furthermore, the growing geriatric population and increased awareness about early diagnosis contribute to market growth. Additionally, advancements in EEG technology enhance its appeal for non-invasive diagnostics, making it a preferred choice for monitoring brain activity. This trend is expected to continue, bolstering the market's expansion.

Restraint:

Limited access in developing regions

Limited access to advanced EEG technology in developing regions hinders market growth. High costs and inadequate healthcare infrastructure discourage investments in these areas. Moreover, restricted reimbursement policies for EEG services further limit adoption. Smaller hospitals and clinics often lack the resources to purchase and maintain sophisticated EEG systems, creating barriers to widespread adoption.

Opportunity:

Integration of Ai and machine learning

The integration of AI and machine learning in EEG analysis presents significant opportunities for market growth. These technologies enhance diagnostic accuracy and enable predictive insights, fostering innovation in personalized medicine. Furthermore, AI-driven EEG systems can automate data interpretation, reducing the need for specialized expertise. Additionally, strategic collaborations and research funding are crucial for capitalizing on these opportunities, driving the development of more sophisticated EEG devices.

Threat:

Competition from alternative neuroimaging techniques

EEG devices face competition from advanced neuroimaging tools like MRI, CT, and PET scans, which offer higher spatial resolution for structural brain assessments. While EEG excels in temporal resolution and cost-effectiveness, preference for multi-modal diagnostics in complex cases challenges its standalone use. Additionally, rising R&D investments in alternative technologies may divert focus, necessitating continuous innovation in EEG systems to maintain relevance.

+357 96 030922
info@marketpublishers.com

Covid-19 Impact:

The COVID-19 pandemic highlighted the importance of remote monitoring technologies, including EEG devices. However, supply chain disruptions and budget constraints initially slowed market growth. As economies recover, the focus on telehealth and home-based monitoring solutions has increased, benefiting the EEG market. Furthermore, the pandemic accelerated the adoption of digital health technologies, positioning EEG devices for long-term growth.

The hospitals and clinics segment is expected to be the largest during the forecast period

The hospitals and clinics segment is expected to account for the largest market share during the forecast period, due to high patient footfall, advanced infrastructure, and skilled personnel. These settings utilize EEG for critical diagnoses, surgical monitoring, and research, supported by favorable reimbursement policies. Additionally, partnerships with academic institutions for clinical trials reinforce segment leadership. The U.S. led in hospital-based EEG adoption, driven by robust healthcare frameworks and rising neurological disorder prevalence.

The wearable devices segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the wearable devices segment is predicted to witness the highest growth rate, fueled by demand for home-based monitoring and chronic disease management. Lightweight, wireless designs enhance patient comfort, enabling long-term data collection. Moreover, integration with smartphones and IoT platforms supports real-time analytics, appealing to both consumers and clinicians. Startups focusing on epilepsy and sleep disorder wearables drive innovation, positioning this segment for rapid expansion.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share, due to advanced healthcare systems, high R&D investments, and strong presence of key players like Natus Medical and Cadwell Industries. High neurological disorder prevalence and insurance coverage further propel demand. Additionally, FDA approvals for AI-enhanced EEG devices and government funding for brain research

+357 96 030922
info@marketpublishers.com

sustain market dominance.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR, driven by improving healthcare access, rising neurological disease awareness, and expanding medical tourism. Countries like India and China invest in modernizing diagnostics, while Japan's aging population boosts demand. Furthermore, local manufacturers offering cost-effective EEG systems and partnerships with global firms accelerate market penetration, positioning the region as a high-growth hub.

Key players in the market

Some of the key players in Electroencephalography Devices Market include Natus Medical Incorporated, Medtronic plc, Nihon Kohden Corporation, Cadwell Industries, Inc., NeuroWave Systems Inc., Electrical Geodesics, Inc. (EGI), Compumedics Limited, Koninklijke Philips N.V., GE Healthcare, Advanced Brain Monitoring, Inc., Brain Products GmbH, BioSemi, Emotiv, NeuroSky, g.tec medical engineering GmbH, ANT Neuro, Cephalon A/S and Noraxon U.S.A., Inc.

Key Developments:

In January 2025, Brain Products released BrainVision Recorder 1.27.0001 and BrainVision Recorder for CGX 2.01.0102.

In January 2025, Emotiv, a global leader in EEG technology, announces its next-generation EEG Active Noise-Cancelling Earphones. These smart earphones enhance personal wellness by integrating advanced EEG technology to provide insights into cognitive performance and overall well-being—alongside exceptional sound quality.

In January 2024, Compumedics Limited is pleased to announce new MEG orders from Tsinghua and Tianjin Universities in China. These sales are via Compumedics' long-term Chinese distributor and partner, Beijing Fistar. The MEG systems, along with a host of peripherals including simultaneous EEG, stimulators, computers, and CURRY neuroimaging software, will ship to both sites in 2025. One order is for two single-helmet MEG systems, and the other is for a dual-helmet MEG system. Both will be configured for hyperscanning.

Product Types Covered:

+357 96 030922
info@marketpublishers.com

8-channel EEG

21-channel EEG

25-channel EEG

32-channel EEG

40-channel EEG

Multichannel EEG

Device Types Covered:

Standalone Devices

Portable Devices

Wearable Devices

Applications Covered:

Epilepsy Diagnosis

Sleep Disorder Diagnosis

Brain Injury Diagnosis

Dementia Diagnosis

Monitoring Anesthesia

Brain-Computer Interface (BCI)

Other Applications

+357 96 030922
info@marketpublishers.com

End Users Covered:

- Hospitals and Clinics
- Diagnostic Centers
- Research Laboratories
- Academic Institutions
- Home Healthcare

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France
  - Spain
  - Rest of Europe
- Asia Pacific

+357 96 030922
info@marketpublishers.com

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa
- Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments

+357 96 030922
info@marketpublishers.com

- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

9 GLOBAL ELECTROENCEPHALOGRAPHY DEVICES MARKET, BY GEOGRAPHY

10 KEY DEVELOPMENTS

+357 96 030922
info@marketpublishers.com

11 COMPANY PROFILING

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Electroencephalography Devices Market Forecasts to 2032 – Global Analysis By Product Type (8-channel EEG, 21-channel EEG, 25-channel EEG, 32-channel EEG, 40-channel EEG and Multichannel EEG), Device Type (Standalone Devices, Portable Devices and Wearable Devices), Application and End User and By Geography

Product link: https://marketpublishers.com/r/EE859BDF4555EN.html

Price: US$ 4,150.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/EE859BDF4555EN.html