

Global Electroencephalography and Electromyography Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Electroencephalography and Electromyography market size is expected to reach \$ 1554 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Electroencephalography and Electromyography refer to two major neurophysiological diagnostic technologies used to detect, record, and analyze the electrical activity generated by the brain, nerves, and muscles. Electroencephalography (EEG) is primarily used to monitor brainwave activity through electrodes placed on the scalp, enabling evaluation of brain function, neural activity, and neurological disorders. Electromyography (EMG) is mainly used to assess muscle and peripheral nerve activity by recording electrical signals generated during muscle contraction and nerve stimulation through surface or needle electrodes. Together, EEG and EMG technologies form essential components of modern clinical neurophysiology and are widely used in neurological diagnosis, rehabilitation medicine, sleep medicine, movement disorder assessment, and neuroscience research.

EEG and EMG systems generally include electrodes, signal amplifiers, acquisition modules, monitoring displays, data storage systems, and advanced analysis software. EEG technologies are commonly applied in epilepsy diagnosis, sleep disorder monitoring, cognitive neuroscience, and brain-computer interface research, while EMG technologies are widely used in neuromuscular disease diagnosis, nerve conduction assessment, rehabilitation evaluation, and motor function analysis. With advancements in digital healthcare and intelligent medical technologies, EEG and EMG systems are increasingly integrating AI-assisted signal analysis, wireless monitoring, cloud-based data management, and portable or wearable architectures to improve long-term

monitoring efficiency and diagnostic precision.

In 2025, global Electroencephalography and Electromyography production reached approximately 82.4 thousand units, with an average market price of around US\$12,200 per unit.

The global Electroencephalography and Electromyography market has experienced steady expansion in recent years due to increasing demand for neurological diagnosis, neuromuscular assessment, and long-term physiological monitoring. Rising prevalence of epilepsy, sleep disorders, stroke, neurodegenerative diseases, peripheral neuropathy, spinal disorders, and movement disorders has significantly increased the adoption of EEG and EMG technologies in hospitals, neurological centers, rehabilitation facilities, and research institutions. Growing awareness of early neurological intervention and functional monitoring is also supporting broader clinical utilization of neurophysiological diagnostic systems.

Several growth factors continue to drive market development. Technological advancements in wireless monitoring, AI-assisted waveform interpretation, wearable neuro-monitoring devices, cloud-based healthcare systems, and high-density signal acquisition are improving diagnostic efficiency and patient monitoring capability. Portable and ambulatory EEG and EMG systems are increasingly used in home healthcare, remote neurological assessment, rehabilitation training, and continuous sleep monitoring applications. In addition, increasing investment in neuroscience research, neurotechnology, brain-computer interfaces, and intelligent rehabilitation systems is creating new commercial opportunities for advanced EEG and EMG technologies.

Regionally, North America remains one of the largest and most technologically advanced markets due to strong healthcare infrastructure, widespread adoption of neurodiagnostic technologies, and active neuroscience research programs. Europe also maintains stable market demand supported by growing applications in sleep medicine, epilepsy diagnosis, and neuromuscular assessment. Meanwhile, Asia-Pacific is becoming one of the fastest-growing regional markets driven by improving healthcare systems, increasing awareness of neurological diseases, expanding patient populations, and rapid growth of domestic medical electronics manufacturing industries in China, Japan, South Korea, and India.

Despite strong market prospects, several limiting factors remain. High costs of advanced neurophysiological systems, shortage of trained neurophysiology specialists,

complex waveform interpretation requirements, and technical challenges associated with long-term synchronized monitoring continue to affect broader market penetration. In developing regions, limited healthcare funding and insufficient neurological diagnostic infrastructure also restrict adoption of high-end EEG and EMG technologies. Looking ahead, future industry trends are expected to focus on wearable monitoring platforms, AI-driven real-time neurological analysis, multimodal neuro-monitoring integration, cloud-based remote diagnostic systems, and highly integrated portable neurophysiological platforms capable of supporting precision neurological assessment and next-generation brain-machine interaction applications.

This report studies the global Electroencephalography and Electromyography production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Electroencephalography and Electromyography and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Electroencephalography and Electromyography that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Electroencephalography and Electromyography total production and demand, 2021-2032, (Units)

Global Electroencephalography and Electromyography total production value, 2021-2032, (USD Million)

Global Electroencephalography and Electromyography production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Electroencephalography and Electromyography consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Electroencephalography and Electromyography domestic production, consumption, key domestic manufacturers and share

Global Electroencephalography and Electromyography production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Electroencephalography and Electromyography production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Electroencephalography and Electromyography production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Electroencephalography and Electromyography market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Nihon Kohden, Natus, Medtronic, Masimo, Micromed, Cadwell, Neurosoft, EGI, EB Neuro, Shanghai NCC Medical, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Electroencephalography and Electromyography market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Electroencephalography and Electromyography Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electroencephalography and Electromyography Market, Segmentation by Type:

EEG Equipment

EMG Equipment

Global Electroencephalography and Electromyography Market, Segmentation by Portability:

Portable Equipment

Stationary Equipment

Wearable Equipment

Global Electroencephalography and Electromyography Market, Segmentation by Automation Level:

Conventional Analysis Equipment

Intelligent Analysis Equipment

Global Electroencephalography and Electromyography Market, Segmentation by Application:

Hospital

Home Care Facilities and Diagnostic Centers

Others

Companies Profiled:

Nihon Kohden

Natus

Medtronic

Masimo

Micromed

Cadwell

Neurosoft

EGI

EB Neuro

Shanghai NCC Medical

Compumedics

Boruikang Medical

Beijing Syntop Instrument

Zhuhai Delica Medical

Haishen Medical

Henan Million Medical

CONTEC Medical

Clarity Medical

Key Questions Answered:

1. How big is the global Electroencephalography and Electromyography market?
2. What is the demand of the global Electroencephalography and Electromyography market?

3. What is the year over year growth of the global Electroencephalography and Electromyography market?
4. What is the production and production value of the global Electroencephalography and Electromyography market?
5. Who are the key producers in the global Electroencephalography and Electromyography market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Electroencephalography and Electromyography Introduction
- 1.2 World Electroencephalography and Electromyography Supply & Forecast
 - 1.2.1 World Electroencephalography and Electromyography Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Electroencephalography and Electromyography Production (2021-2032)
 - 1.2.3 World Electroencephalography and Electromyography Pricing Trends (2021-2032)
- 1.3 World Electroencephalography and Electromyography Production by Region (Based on Production Site)
 - 1.3.1 World Electroencephalography and Electromyography Production Value by Region (2021-2032)
 - 1.3.2 World Electroencephalography and Electromyography Production by Region (2021-2032)
 - 1.3.3 World Electroencephalography and Electromyography Average Price by Region (2021-2032)
 - 1.3.4 North America Electroencephalography and Electromyography Production (2021-2032)
 - 1.3.5 Europe Electroencephalography and Electromyography Production (2021-2032)
 - 1.3.6 China Electroencephalography and Electromyography Production (2021-2032)
 - 1.3.7 Japan Electroencephalography and Electromyography Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Electroencephalography and Electromyography Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Electroencephalography and Electromyography Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Electroencephalography and Electromyography Demand (2021-2032)
- 2.2 World Electroencephalography and Electromyography Consumption by Region
 - 2.2.1 World Electroencephalography and Electromyography Consumption by Region (2021-2026)
 - 2.2.2 World Electroencephalography and Electromyography Consumption Forecast by Region (2027-2032)
- 2.3 United States Electroencephalography and Electromyography Consumption (2021-2032)

- 2.4 China Electroencephalography and Electromyography Consumption (2021-2032)
- 2.5 Europe Electroencephalography and Electromyography Consumption (2021-2032)
- 2.6 Japan Electroencephalography and Electromyography Consumption (2021-2032)
- 2.7 South Korea Electroencephalography and Electromyography Consumption (2021-2032)
- 2.8 ASEAN Electroencephalography and Electromyography Consumption (2021-2032)
- 2.9 India Electroencephalography and Electromyography Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Electroencephalography and Electromyography Production Value by Manufacturer (2021-2026)
- 3.2 World Electroencephalography and Electromyography Production by Manufacturer (2021-2026)
- 3.3 World Electroencephalography and Electromyography Average Price by Manufacturer (2021-2026)
- 3.4 Electroencephalography and Electromyography Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Electroencephalography and Electromyography Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Electroencephalography and Electromyography in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Electroencephalography and Electromyography in 2025
- 3.6 Electroencephalography and Electromyography Market: Overall Company Footprint Analysis
 - 3.6.1 Electroencephalography and Electromyography Market: Region Footprint
 - 3.6.2 Electroencephalography and Electromyography Market: Company Product Type Footprint
 - 3.6.3 Electroencephalography and Electromyography Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Electroencephalography and Electromyography Production Value Comparison

4.1.1 United States VS China: Electroencephalography and Electromyography Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Electroencephalography and Electromyography Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Electroencephalography and Electromyography Production Comparison

4.2.1 United States VS China: Electroencephalography and Electromyography Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Electroencephalography and Electromyography Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Electroencephalography and Electromyography Consumption Comparison

4.3.1 United States VS China: Electroencephalography and Electromyography Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Electroencephalography and Electromyography Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Electroencephalography and Electromyography Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Electroencephalography and Electromyography Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Electroencephalography and Electromyography Production Value (2021-2026)

4.4.3 United States Based Manufacturers Electroencephalography and Electromyography Production (2021-2026)

4.5 China Based Electroencephalography and Electromyography Manufacturers and Market Share

4.5.1 China Based Electroencephalography and Electromyography Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Electroencephalography and Electromyography Production Value (2021-2026)

4.5.3 China Based Manufacturers Electroencephalography and Electromyography Production (2021-2026)

4.6 Rest of World Based Electroencephalography and Electromyography Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Electroencephalography and Electromyography Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Electroencephalography and Electromyography Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Electroencephalography and Electromyography Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Electroencephalography and Electromyography Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 EEG Equipment

5.2.2 EMG Equipment

5.3 Market Segment by Type

5.3.1 World Electroencephalography and Electromyography Production by Type (2021-2032)

5.3.2 World Electroencephalography and Electromyography Production Value by Type (2021-2032)

5.3.3 World Electroencephalography and Electromyography Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY PORTABILITY

6.1 World Electroencephalography and Electromyography Market Size Overview by Portability: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Portability

6.2.1 Portable Equipment

6.2.2 Stationary Equipment

6.2.3 Wearable Equipment

6.3 Market Segment by Portability

6.3.1 World Electroencephalography and Electromyography Production by Portability (2021-2032)

6.3.2 World Electroencephalography and Electromyography Production Value by Portability (2021-2032)

6.3.3 World Electroencephalography and Electromyography Average Price by Portability (2021-2032)

7 MARKET ANALYSIS BY AUTOMATION LEVEL

7.1 World Electroencephalography and Electromyography Market Size Overview by

Automation Level: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Automation Level

7.2.1 Conventional Analysis Equipment

7.2.2 Intelligent Analysis Equipment

7.3 Market Segment by Automation Level

7.3.1 World Electroencephalography and Electromyography Production by Automation Level (2021-2032)

7.3.2 World Electroencephalography and Electromyography Production Value by Automation Level (2021-2032)

7.3.3 World Electroencephalography and Electromyography Average Price by Automation Level (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Electroencephalography and Electromyography Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Hospital

8.2.2 Home Care Facilities and Diagnostic Centers

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Electroencephalography and Electromyography Production by Application (2021-2032)

8.3.2 World Electroencephalography and Electromyography Production Value by Application (2021-2032)

8.3.3 World Electroencephalography and Electromyography Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Nihon Kohden

9.1.1 Nihon Kohden Details

9.1.2 Nihon Kohden Major Business

9.1.3 Nihon Kohden Electroencephalography and Electromyography Product and Services

9.1.4 Nihon Kohden Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Nihon Kohden Recent Developments/Updates

9.1.6 Nihon Kohden Competitive Strengths & Weaknesses

9.2 Natus

9.2.1 Natus Details

9.2.2 Natus Major Business

9.2.3 Natus Electroencephalography and Electromyography Product and Services

9.2.4 Natus Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Natus Recent Developments/Updates

9.2.6 Natus Competitive Strengths & Weaknesses

9.3 Medtronic

9.3.1 Medtronic Details

9.3.2 Medtronic Major Business

9.3.3 Medtronic Electroencephalography and Electromyography Product and Services

9.3.4 Medtronic Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Medtronic Recent Developments/Updates

9.3.6 Medtronic Competitive Strengths & Weaknesses

9.4 Masimo

9.4.1 Masimo Details

9.4.2 Masimo Major Business

9.4.3 Masimo Electroencephalography and Electromyography Product and Services

9.4.4 Masimo Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Masimo Recent Developments/Updates

9.4.6 Masimo Competitive Strengths & Weaknesses

9.5 Micromed

9.5.1 Micromed Details

9.5.2 Micromed Major Business

9.5.3 Micromed Electroencephalography and Electromyography Product and Services

9.5.4 Micromed Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Micromed Recent Developments/Updates

9.5.6 Micromed Competitive Strengths & Weaknesses

9.6 Cadwell

9.6.1 Cadwell Details

9.6.2 Cadwell Major Business

9.6.3 Cadwell Electroencephalography and Electromyography Product and Services

9.6.4 Cadwell Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 Cadwell Recent Developments/Updates

9.6.6 Cadwell Competitive Strengths & Weaknesses

9.7 Neurosoft

9.7.1 Neurosoft Details

9.7.2 Neurosoft Major Business

9.7.3 Neurosoft Electroencephalography and Electromyography Product and Services

9.7.4 Neurosoft Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Neurosoft Recent Developments/Updates

9.7.6 Neurosoft Competitive Strengths & Weaknesses

9.8 EGI

9.8.1 EGI Details

9.8.2 EGI Major Business

9.8.3 EGI Electroencephalography and Electromyography Product and Services

9.8.4 EGI Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 EGI Recent Developments/Updates

9.8.6 EGI Competitive Strengths & Weaknesses

9.9 EB Neuro

9.9.1 EB Neuro Details

9.9.2 EB Neuro Major Business

9.9.3 EB Neuro Electroencephalography and Electromyography Product and Services

9.9.4 EB Neuro Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 EB Neuro Recent Developments/Updates

9.9.6 EB Neuro Competitive Strengths & Weaknesses

9.10 Shanghai NCC Medical

9.10.1 Shanghai NCC Medical Details

9.10.2 Shanghai NCC Medical Major Business

9.10.3 Shanghai NCC Medical Electroencephalography and Electromyography Product and Services

9.10.4 Shanghai NCC Medical Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Shanghai NCC Medical Recent Developments/Updates

9.10.6 Shanghai NCC Medical Competitive Strengths & Weaknesses

9.11 Compumedics

9.11.1 Compumedics Details

9.11.2 Compumedics Major Business

9.11.3 Compumedics Electroencephalography and Electromyography Product and Services

- 9.11.4 Compumedics Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Compumedics Recent Developments/Updates
- 9.11.6 Compumedics Competitive Strengths & Weaknesses
- 9.12 Boruikang Medical
 - 9.12.1 Boruikang Medical Details
 - 9.12.2 Boruikang Medical Major Business
 - 9.12.3 Boruikang Medical Electroencephalography and Electromyography Product and Services
 - 9.12.4 Boruikang Medical Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Boruikang Medical Recent Developments/Updates
 - 9.12.6 Boruikang Medical Competitive Strengths & Weaknesses
- 9.13 Beijing Symtop Instrument
 - 9.13.1 Beijing Symtop Instrument Details
 - 9.13.2 Beijing Symtop Instrument Major Business
 - 9.13.3 Beijing Symtop Instrument Electroencephalography and Electromyography Product and Services
 - 9.13.4 Beijing Symtop Instrument Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Beijing Symtop Instrument Recent Developments/Updates
 - 9.13.6 Beijing Symtop Instrument Competitive Strengths & Weaknesses
- 9.14 Zhuhai Delica Medical
 - 9.14.1 Zhuhai Delica Medical Details
 - 9.14.2 Zhuhai Delica Medical Major Business
 - 9.14.3 Zhuhai Delica Medical Electroencephalography and Electromyography Product and Services
 - 9.14.4 Zhuhai Delica Medical Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Zhuhai Delica Medical Recent Developments/Updates
 - 9.14.6 Zhuhai Delica Medical Competitive Strengths & Weaknesses
- 9.15 Haishen Medical
 - 9.15.1 Haishen Medical Details
 - 9.15.2 Haishen Medical Major Business
 - 9.15.3 Haishen Medical Electroencephalography and Electromyography Product and Services
 - 9.15.4 Haishen Medical Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Haishen Medical Recent Developments/Updates

- 9.15.6 Haishen Medical Competitive Strengths & Weaknesses
- 9.16 Henan Million Medical
 - 9.16.1 Henan Million Medical Details
 - 9.16.2 Henan Million Medical Major Business
 - 9.16.3 Henan Million Medical Electroencephalography and Electromyography Product and Services
 - 9.16.4 Henan Million Medical Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Henan Million Medical Recent Developments/Updates
 - 9.16.6 Henan Million Medical Competitive Strengths & Weaknesses
- 9.17 CONTEC Medical
 - 9.17.1 CONTEC Medical Details
 - 9.17.2 CONTEC Medical Major Business
 - 9.17.3 CONTEC Medical Electroencephalography and Electromyography Product and Services
 - 9.17.4 CONTEC Medical Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.17.5 CONTEC Medical Recent Developments/Updates
 - 9.17.6 CONTEC Medical Competitive Strengths & Weaknesses
- 9.18 Clarity Medical
 - 9.18.1 Clarity Medical Details
 - 9.18.2 Clarity Medical Major Business
 - 9.18.3 Clarity Medical Electroencephalography and Electromyography Product and Services
 - 9.18.4 Clarity Medical Electroencephalography and Electromyography Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.18.5 Clarity Medical Recent Developments/Updates
 - 9.18.6 Clarity Medical Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Electroencephalography and Electromyography Industry Chain
- 10.2 Electroencephalography and Electromyography Upstream Analysis
 - 10.2.1 Electroencephalography and Electromyography Core Raw Materials
 - 10.2.2 Main Manufacturers of Electroencephalography and Electromyography Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Electroencephalography and Electromyography Production Mode

10.6 Electroencephalography and Electromyography Procurement Model

10.7 Electroencephalography and Electromyography Industry Sales Model and Sales Channels

10.7.1 Electroencephalography and Electromyography Sales Model

10.7.2 Electroencephalography and Electromyography Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Electroencephalography and Electromyography Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Electroencephalography and Electromyography Production Value by Region (2021-2026) & (USD Million)

Table 3. World Electroencephalography and Electromyography Production Value by Region (2027-2032) & (USD Million)

Table 4. World Electroencephalography and Electromyography Production Value Market Share by Region (2021-2026)

Table 5. World Electroencephalography and Electromyography Production Value Market Share by Region (2027-2032)

Table 6. World Electroencephalography and Electromyography Production by Region (2021-2026) & (Units)

Table 7. World Electroencephalography and Electromyography Production by Region (2027-2032) & (Units)

Table 8. World Electroencephalography and Electromyography Production Market Share by Region (2021-2026)

Table 9. World Electroencephalography and Electromyography Production Market Share by Region (2027-2032)

Table 10. World Electroencephalography and Electromyography Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Electroencephalography and Electromyography Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Electroencephalography and Electromyography Major Market Trends

Table 13. World Electroencephalography and Electromyography Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Electroencephalography and Electromyography Consumption by Region (2021-2026) & (Units)

Table 15. World Electroencephalography and Electromyography Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Electroencephalography and Electromyography Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Electroencephalography and Electromyography Producers in 2025

Table 18. World Electroencephalography and Electromyography Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Electroencephalography and Electromyography Producers in 2025

Table 20. World Electroencephalography and Electromyography Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Electroencephalography and Electromyography Company Evaluation Quadrant

Table 22. World Electroencephalography and Electromyography Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Electroencephalography and Electromyography Production Site of Key Manufacturer

Table 24. Electroencephalography and Electromyography Market: Company Product Type Footprint

Table 25. Electroencephalography and Electromyography Market: Company Product Application Footprint

Table 26. Electroencephalography and Electromyography Competitive Factors

Table 27. Electroencephalography and Electromyography New Entrant and Capacity Expansion Plans

Table 28. Electroencephalography and Electromyography Mergers & Acquisitions Activity

Table 29. United States VS China Electroencephalography and Electromyography Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Electroencephalography and Electromyography Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Electroencephalography and Electromyography Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Electroencephalography and Electromyography Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Electroencephalography and Electromyography Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Electroencephalography and Electromyography Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Electroencephalography and Electromyography Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Electroencephalography and Electromyography Production Market Share (2021-2026)

Table 37. China Based Electroencephalography and Electromyography Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Electroencephalography and Electromyography Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Electroencephalography and Electromyography Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Electroencephalography and Electromyography Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Electroencephalography and Electromyography Production Market Share (2021-2026)

Table 42. Rest of World Based Electroencephalography and Electromyography Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Electroencephalography and Electromyography Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Electroencephalography and Electromyography Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Electroencephalography and Electromyography Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Electroencephalography and Electromyography Production Market Share (2021-2026)

Table 47. World Electroencephalography and Electromyography Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Electroencephalography and Electromyography Production by Type (2021-2026) & (Units)

Table 49. World Electroencephalography and Electromyography Production by Type (2027-2032) & (Units)

Table 50. World Electroencephalography and Electromyography Production Value by Type (2021-2026) & (USD Million)

Table 51. World Electroencephalography and Electromyography Production Value by Type (2027-2032) & (USD Million)

Table 52. World Electroencephalography and Electromyography Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Electroencephalography and Electromyography Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Electroencephalography and Electromyography Production Value by Portability, (USD Million), 2021 & 2025 & 2032

Table 55. World Electroencephalography and Electromyography Production by Portability (2021-2026) & (Units)

Table 56. World Electroencephalography and Electromyography Production by Portability (2027-2032) & (Units)

Table 57. World Electroencephalography and Electromyography Production Value by Portability (2021-2026) & (USD Million)

Table 58. World Electroencephalography and Electromyography Production Value by

Portability (2027-2032) & (USD Million)

Table 59. World Electroencephalography and Electromyography Average Price by Portability (2021-2026) & (US\$/Unit)

Table 60. World Electroencephalography and Electromyography Average Price by Portability (2027-2032) & (US\$/Unit)

Table 61. World Electroencephalography and Electromyography Production Value by Automation Level, (USD Million), 2021 & 2025 & 2032

Table 62. World Electroencephalography and Electromyography Production by Automation Level (2021-2026) & (Units)

Table 63. World Electroencephalography and Electromyography Production by Automation Level (2027-2032) & (Units)

Table 64. World Electroencephalography and Electromyography Production Value by Automation Level (2021-2026) & (USD Million)

Table 65. World Electroencephalography and Electromyography Production Value by Automation Level (2027-2032) & (USD Million)

Table 66. World Electroencephalography and Electromyography Average Price by Automation Level (2021-2026) & (US\$/Unit)

Table 67. World Electroencephalography and Electromyography Average Price by Automation Level (2027-2032) & (US\$/Unit)

Table 68. World Electroencephalography and Electromyography Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Electroencephalography and Electromyography Production by Application (2021-2026) & (Units)

Table 70. World Electroencephalography and Electromyography Production by Application (2027-2032) & (Units)

Table 71. World Electroencephalography and Electromyography Production Value by Application (2021-2026) & (USD Million)

Table 72. World Electroencephalography and Electromyography Production Value by Application (2027-2032) & (USD Million)

Table 73. World Electroencephalography and Electromyography Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Electroencephalography and Electromyography Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Nihon Kohden Basic Information, Manufacturing Base and Competitors

Table 76. Nihon Kohden Major Business

Table 77. Nihon Kohden Electroencephalography and Electromyography Product and Services

Table 78. Nihon Kohden Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 79. Nihon Kohden Recent Developments/Updates

Table 80. Nihon Kohden Competitive Strengths & Weaknesses

Table 81. Natus Basic Information, Manufacturing Base and Competitors

Table 82. Natus Major Business

Table 83. Natus Electroencephalography and Electromyography Product and Services

Table 84. Natus Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Natus Recent Developments/Updates

Table 86. Natus Competitive Strengths & Weaknesses

Table 87. Medtronic Basic Information, Manufacturing Base and Competitors

Table 88. Medtronic Major Business

Table 89. Medtronic Electroencephalography and Electromyography Product and Services

Table 90. Medtronic Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Medtronic Recent Developments/Updates

Table 92. Medtronic Competitive Strengths & Weaknesses

Table 93. Masimo Basic Information, Manufacturing Base and Competitors

Table 94. Masimo Major Business

Table 95. Masimo Electroencephalography and Electromyography Product and Services

Table 96. Masimo Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Masimo Recent Developments/Updates

Table 98. Masimo Competitive Strengths & Weaknesses

Table 99. Micromed Basic Information, Manufacturing Base and Competitors

Table 100. Micromed Major Business

Table 101. Micromed Electroencephalography and Electromyography Product and Services

Table 102. Micromed Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Micromed Recent Developments/Updates

Table 104. Micromed Competitive Strengths & Weaknesses

Table 105. Cadwell Basic Information, Manufacturing Base and Competitors

Table 106. Cadwell Major Business

Table 107. Cadwell Electroencephalography and Electromyography Product and Services

Table 108. Cadwell Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Cadwell Recent Developments/Updates

Table 110. Cadwell Competitive Strengths & Weaknesses

Table 111. Neurosoft Basic Information, Manufacturing Base and Competitors

Table 112. Neurosoft Major Business

Table 113. Neurosoft Electroencephalography and Electromyography Product and Services

Table 114. Neurosoft Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Neurosoft Recent Developments/Updates

Table 116. Neurosoft Competitive Strengths & Weaknesses

Table 117. EGI Basic Information, Manufacturing Base and Competitors

Table 118. EGI Major Business

Table 119. EGI Electroencephalography and Electromyography Product and Services

Table 120. EGI Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. EGI Recent Developments/Updates

Table 122. EGI Competitive Strengths & Weaknesses

Table 123. EB Neuro Basic Information, Manufacturing Base and Competitors

Table 124. EB Neuro Major Business

Table 125. EB Neuro Electroencephalography and Electromyography Product and Services

Table 126. EB Neuro Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. EB Neuro Recent Developments/Updates

Table 128. EB Neuro Competitive Strengths & Weaknesses

Table 129. Shanghai NCC Medical Basic Information, Manufacturing Base and Competitors

Table 130. Shanghai NCC Medical Major Business

Table 131. Shanghai NCC Medical Electroencephalography and Electromyography Product and Services

Table 132. Shanghai NCC Medical Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Shanghai NCC Medical Recent Developments/Updates

Table 134. Shanghai NCC Medical Competitive Strengths & Weaknesses

Table 135. Compumedics Basic Information, Manufacturing Base and Competitors

Table 136. Compumedics Major Business

Table 137. Compumedics Electroencephalography and Electromyography Product and Services

Table 138. Compumedics Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Compumedics Recent Developments/Updates

Table 140. Compumedics Competitive Strengths & Weaknesses

Table 141. Boruikang Medical Basic Information, Manufacturing Base and Competitors

Table 142. Boruikang Medical Major Business

Table 143. Boruikang Medical Electroencephalography and Electromyography Product and Services

Table 144. Boruikang Medical Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Boruikang Medical Recent Developments/Updates

Table 146. Boruikang Medical Competitive Strengths & Weaknesses

Table 147. Beijing Symtop Instrument Basic Information, Manufacturing Base and Competitors

Table 148. Beijing Symtop Instrument Major Business

Table 149. Beijing Symtop Instrument Electroencephalography and Electromyography Product and Services

Table 150. Beijing Symtop Instrument Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Beijing Symtop Instrument Recent Developments/Updates

Table 152. Beijing Symtop Instrument Competitive Strengths & Weaknesses

Table 153. Zhuhai Delica Medical Basic Information, Manufacturing Base and Competitors

Table 154. Zhuhai Delica Medical Major Business

Table 155. Zhuhai Delica Medical Electroencephalography and Electromyography Product and Services

Table 156. Zhuhai Delica Medical Electroencephalography and Electromyography

Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Zhuhai Delica Medical Recent Developments/Updates

Table 158. Zhuhai Delica Medical Competitive Strengths & Weaknesses

Table 159. Haishen Medical Basic Information, Manufacturing Base and Competitors

Table 160. Haishen Medical Major Business

Table 161. Haishen Medical Electroencephalography and Electromyography Product and Services

Table 162. Haishen Medical Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Haishen Medical Recent Developments/Updates

Table 164. Haishen Medical Competitive Strengths & Weaknesses

Table 165. Henan Million Medical Basic Information, Manufacturing Base and Competitors

Table 166. Henan Million Medical Major Business

Table 167. Henan Million Medical Electroencephalography and Electromyography Product and Services

Table 168. Henan Million Medical Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Henan Million Medical Recent Developments/Updates

Table 170. Henan Million Medical Competitive Strengths & Weaknesses

Table 171. CONTEC Medical Basic Information, Manufacturing Base and Competitors

Table 172. CONTEC Medical Major Business

Table 173. CONTEC Medical Electroencephalography and Electromyography Product and Services

Table 174. CONTEC Medical Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. CONTEC Medical Recent Developments/Updates

Table 176. CONTEC Medical Competitive Strengths & Weaknesses

Table 177. Clarity Medical Basic Information, Manufacturing Base and Competitors

Table 178. Clarity Medical Major Business

Table 179. Clarity Medical Electroencephalography and Electromyography Product and Services

Table 180. Clarity Medical Electroencephalography and Electromyography Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Clarity Medical Recent Developments/Updates

Table 182. Clarity Medical Competitive Strengths & Weaknesses

Table 183. Global Key Players of Electroencephalography and Electromyography
Upstream (Raw Materials)

Table 184. Global Electroencephalography and Electromyography Typical Customers

Table 185. Electroencephalography and Electromyography Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Electroencephalography and Electromyography Picture
- Figure 2. World Electroencephalography and Electromyography Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Electroencephalography and Electromyography Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Electroencephalography and Electromyography Production (2021-2032) & (Units)
- Figure 5. World Electroencephalography and Electromyography Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Electroencephalography and Electromyography Production Value Market Share by Region (2021-2032)
- Figure 7. World Electroencephalography and Electromyography Production Market Share by Region (2021-2032)
- Figure 8. North America Electroencephalography and Electromyography Production (2021-2032) & (Units)
- Figure 9. Europe Electroencephalography and Electromyography Production (2021-2032) & (Units)
- Figure 10. China Electroencephalography and Electromyography Production (2021-2032) & (Units)
- Figure 11. Japan Electroencephalography and Electromyography Production (2021-2032) & (Units)
- Figure 12. Electroencephalography and Electromyography Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Electroencephalography and Electromyography Consumption (2021-2032) & (Units)
- Figure 15. World Electroencephalography and Electromyography Consumption Market Share by Region (2021-2032)
- Figure 16. United States Electroencephalography and Electromyography Consumption (2021-2032) & (Units)
- Figure 17. China Electroencephalography and Electromyography Consumption (2021-2032) & (Units)
- Figure 18. Europe Electroencephalography and Electromyography Consumption (2021-2032) & (Units)
- Figure 19. Japan Electroencephalography and Electromyography Consumption (2021-2032) & (Units)

Figure 20. South Korea Electroencephalography and Electromyography Consumption (2021-2032) & (Units)

Figure 21. ASEAN Electroencephalography and Electromyography Consumption (2021-2032) & (Units)

Figure 22. India Electroencephalography and Electromyography Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Electroencephalography and Electromyography by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Electroencephalography and Electromyography Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Electroencephalography and Electromyography Markets in 2025

Figure 26. United States VS China: Electroencephalography and Electromyography Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Electroencephalography and Electromyography Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Electroencephalography and Electromyography Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Electroencephalography and Electromyography Production Market Share 2025

Figure 30. China Based Manufacturers Electroencephalography and Electromyography Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Electroencephalography and Electromyography Production Market Share 2025

Figure 32. World Electroencephalography and Electromyography Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Electroencephalography and Electromyography Production Value Market Share by Type in 2025

Figure 34. EEG Equipment

Figure 35. EMG Equipment

Figure 36. World Electroencephalography and Electromyography Production Market Share by Type (2021-2032)

Figure 37. World Electroencephalography and Electromyography Production Value Market Share by Type (2021-2032)

Figure 38. World Electroencephalography and Electromyography Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Electroencephalography and Electromyography Production Value by Portability, (USD Million), 2021 & 2025 & 2032

Figure 40. World Electroencephalography and Electromyography Production Value

Market Share by Portability in 2025

Figure 41. Portable Equipment

Figure 42. Stationary Equipment

Figure 43. Wearable Equipment

Figure 44. World Electroencephalography and Electromyography Production Market Share by Portability (2021-2032)

Figure 45. World Electroencephalography and Electromyography Production Value Market Share by Portability (2021-2032)

Figure 46. World Electroencephalography and Electromyography Average Price by Portability (2021-2032) & (US\$/Unit)

Figure 47. World Electroencephalography and Electromyography Production Value by Automation Level, (USD Million), 2021 & 2025 & 2032

Figure 48. World Electroencephalography and Electromyography Production Value Market Share by Automation Level in 2025

Figure 49. Conventional Analysis Equipment

Figure 50. Intelligent Analysis Equipment

Figure 51. World Electroencephalography and Electromyography Production Market Share by Automation Level (2021-2032)

Figure 52. World Electroencephalography and Electromyography Production Value Market Share by Automation Level (2021-2032)

Figure 53. World Electroencephalography and Electromyography Average Price by Automation Level (2021-2032) & (US\$/Unit)

Figure 54. World Electroencephalography and Electromyography Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 55. World Electroencephalography and Electromyography Production Value Market Share by Application in 2025

Figure 56. Hospital

Figure 57. Home Care Facilities and Diagnostic Centers

Figure 58. Others

Figure 59. World Electroencephalography and Electromyography Production Market Share by Application (2021-2032)

Figure 60. World Electroencephalography and Electromyography Production Value Market Share by Application (2021-2032)

Figure 61. World Electroencephalography and Electromyography Average Price by Application (2021-2032) & (US\$/Unit)

Figure 62. Electroencephalography and Electromyography Industry Chain

Figure 63. Electroencephalography and Electromyography Procurement Model

Figure 64. Electroencephalography and Electromyography Sales Model

Figure 65. Electroencephalography and Electromyography Sales Channels, Direct

Sales, and Distribution

Figure 66. Methodology

Figure 67. Research Process and Data Source

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