

Global ECoG Electrodes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global ECoG Electrodes market size is expected to reach \$ 1518 million by 2032, rising at a market growth of 17.8% CAGR during the forecast period (2026-2032).

ECoG Electrodes are sensors used to record electrical activity directly from the surface of the brain (cerebral cortex). Unlike EEG, which measures signals through the scalp, ECoG electrodes are placed subdurally or epidurally, providing higher spatial and temporal resolution for neural signals. They are widely used in clinical monitoring (e.g., epilepsy) and research for brain-computer interfaces (BCIs). In 2025, global ECoG electrode production reached approximately 0.13 M units, with an average global market price of around US\$ 3,500 per unit. Annual production capacity is 0.14 M units. Gross Profit Margin: 32.35%. The ECoG electrode industry chain includes upstream raw materials, midstream manufacturing, and downstream applications. Upstream materials mainly consist of biocompatible metals like platinum and gold, as well as flexible polymers for electrode substrates. Midstream involves the design and production of grids, strips, and depth electrodes, integrating connectors, amplifiers, and acquisition systems. Downstream, these electrodes are applied in clinical fields such as epilepsy monitoring and neurosurgical planning, as well as in research and brain-computer interface development. ECoG electrodes occupy a unique position in neural interfacing, offering high spatial and temporal resolution between non-invasive EEG and invasive single-unit recordings. Their applications in clinical monitoring, BCI research, and functional cortical mapping make them highly valuable. Future growth depends on innovations in flexible, minimally invasive designs and scalable manufacturing, which could significantly expand adoption beyond specialized clinical and research settings.

This report studies the global ECoG Electrodes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for ECoG Electrodes 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 ECoG Electrodes that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global ECoG Electrodes total production and demand, 2021-2032, (Units)

Global ECoG Electrodes total production value, 2021-2032, (USD Million)

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

Global ECoG Electrodes consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: ECoG Electrodes domestic production, consumption, key domestic manufacturers and share

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

Global ECoG Electrodes production by Form Factor, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global ECoG Electrodes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global ECoG Electrodes 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 NeuroNexus Technologies, G.Tec Medical Engineering GmbH, Blackrock Neurotech, NeuroOne Medical Technologies Corporation, MicroProbes For Life Science, Ripple Neuro, Ad?Tech Medical Instrument Corporation, PMT Corporation, Integra LifeSciences Holdings Corporation, CorTec GmbH, 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 ECoG Electrodes market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Form Factor, 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 ECoG Electrodes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global ECoG Electrodes Market, Segmentation by Form Factor:

Grid Electrodes

Strip Electrodes

Depth Electrodes

Global ECoG Electrodes Market, Segmentation by Placement:

Subdural Electrodes

Epidural Electrodes

Global ECoG Electrodes Market, Segmentation by Material:

Metal-based Electrodes

Polymer-based / Flexible Electrodes

High-Density / Micro-ECoG Electrodes (μ ECoG)

Global ECoG Electrodes Market, Segmentation by Application:

Neurology

Neurosurgery

Neurorehabilitation

Cognitive Neuroscience

Biomedical Engineering

Others

Companies Profiled:

NeuroNexus Technologies

G.Tec Medical Engineering GmbH

Blackrock Neurotech

NeuroOne Medical Technologies Corporation

MicroProbes For Life Science

Ripple Neuro

Ad?Tech Medical Instrument Corporation

PMT Corporation

Integra LifeSciences Holdings Corporation

CorTec GmbH

Natus Medical Incorporated

Inomed Medizintechnik GmbH

Spike Neuro

Neurosoft Bioelectronics

Precision Neuroscience

Paradromics Inc

Cir?Tech Inc

Keystone Technologies

Sigenics

Alpha Med Sciences

Key Questions Answered:

1. How big is the global ECoG Electrodes market?
2. What is the demand of the global ECoG Electrodes market?
3. What is the year over year growth of the global ECoG Electrodes market?
4. What is the production and production value of the global ECoG Electrodes market?
5. Who are the key producers in the global ECoG Electrodes market?
6. What are the growth factors driving the market demand?

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