

Global Non-invasive Cerebral Oxygen Monitor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Non-invasive Cerebral Oxygen Monitor market size is expected to reach \$ 1270 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

Non-invasive brain oximetry monitors utilize optical technologies such as near-infrared spectroscopy (NIRS). Through a forehead patch probe, they emit/receive near-infrared light on the body surface to estimate the real-time oxygen saturation (rSO₂) and its changes in brain tissue regions. This is used to assess cerebral perfusion and hypoxia risk and is commonly used in anesthesia and intensive care.

Upstream: Near-infrared LEDs/lasers, photodetectors and filters, analog front-ends/MCUs, optical fibers and connectors, medical adhesives and non-woven substrates, algorithm software and calibration materials. Downstream: Surgical anesthesia, ICU/NICU, cardiac/neurosurgery, emergency transport, stroke and rehabilitation departments, and research institutions.

In 2025, the global unit price of a brain oximetry monitor was US\$278,800, with sales of 2,967 units and a global annual production capacity of 3,000 units. The industry profit margin was 20-25%.

Global Market Future Development Trends:

First, clinical monitoring is shifting from 'optional monitoring' to 'standard equipment for high-risk patients.' Increased involvement in cardiac and vascular surgery, aging populations, and comorbidities necessitates greater emphasis on perioperative brain protection and complication prevention. Non-invasive brain oxygenation will increasingly integrate with multiple parameters such as blood pressure, SpO₂, and EEG, forming a closed-loop management and pathway-based usage.

Second, technological approaches are iterating towards greater accuracy, stability, and usability. Multi-wavelength/multi-distance, dynamic baseline calibration, and anti-motion/anti-external light algorithms reduce interference from scalp blood flow. AI-based

early warning based on trend and threshold combinations improves interpretability and consistency, and promotes guideline and evidence accumulation. Third, the commercial and supply sides are increasingly driven by 'consumables + digitalization.' Disposable low-allergenic patches and traceable consumables are becoming growth engines. Device networking with ICU platforms and EMR supports remote quality control. Increased surgical volume and improved payment methods in emerging markets will drive continued expansion.

This report studies the global Non-invasive Cerebral Oxygen Monitor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Non-invasive Cerebral Oxygen Monitor 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 Non-invasive Cerebral Oxygen Monitor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Non-invasive Cerebral Oxygen Monitor total production and demand, 2021-2032, (Units)

Global Non-invasive Cerebral Oxygen Monitor total production value, 2021-2032, (USD Million)

Global Non-invasive Cerebral Oxygen Monitor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Non-invasive Cerebral Oxygen Monitor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Non-invasive Cerebral Oxygen Monitor domestic production, consumption, key domestic manufacturers and share

Global Non-invasive Cerebral Oxygen Monitor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Non-invasive Cerebral Oxygen Monitor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Non-invasive Cerebral Oxygen Monitor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Non-invasive Cerebral Oxygen Monitor 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 GE Healthcare, Medtronic, HAMAMATSU, Masimo Corporation, Mespere LifeSciences, Artinis Medical Systems, Nonin Medical, Ornim Medical, CAS Medical Systems, ENGINMED, 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 Non-invasive Cerebral Oxygen Monitor 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 Non-invasive Cerebral Oxygen Monitor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Non-invasive Cerebral Oxygen Monitor Market, Segmentation by Type:

Portable Type

Wearable Type

Global Non-invasive Cerebral Oxygen Monitor Market, Segmentation by Monitoring Principles:

Continuous Wave NIRS (CW-NIRS)

Frequency Domain NIRS (FD-NIRS)

Time-Resolved NIRS (TD-NIRS)

Global Non-invasive Cerebral Oxygen Monitor Market, Segmentation by Channel Configuration:

Single Channel

Dual Channel

Multi-Channel

Global Non-invasive Cerebral Oxygen Monitor Market, Segmentation by Application:

Hospital

Clinic

Household

Companies Profiled:

GE Healthcare

Medtronic

HAMAMATSU

Masimo Corporation

Mespere LifeSciences

Artinis Medical Systems

Nonin Medical

Ornim Medical

CAS Medical Systems

ENGINMED

CASIBRAIN TECHNOLOGY

Chongqing Mingxi Medical Instrument

Hebei JinKangAn Medical Device Technology

Key Questions Answered:

1. How big is the global Non-invasive Cerebral Oxygen Monitor market?
2. What is the demand of the global Non-invasive Cerebral Oxygen Monitor market?
3. What is the year over year growth of the global Non-invasive Cerebral Oxygen Monitor market?
4. What is the production and production value of the global Non-invasive Cerebral Oxygen Monitor market?
5. Who are the key producers in the global Non-invasive Cerebral Oxygen Monitor market?
6. What are the growth factors driving the market demand?

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