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Global fNIRS System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global fNIRS System market size is expected to reach $ 469 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

A functional near-infrared spectroscopy system is a non-invasive brain function imaging device based on near-infrared spectroscopy technology. It emits near-infrared light onto the scalp and receives the light signals reflected or transmitted by brain tissue, then analyzes changes in the concentrations of oxygenated hemoglobin and deoxygenated hemoglobin in the cerebral cortex to reflect local cerebral blood flow and oxygen metabolism changes associated with neural activity. The system typically consists of light sources, detectors, head-mounted probes or optical fiber caps, signal acquisition modules, and data analysis software. With advantages such as high safety, strong portability, and relatively low restrictions on subject movement, it is widely used in neuroscience research, cognitive psychology research, clinical research, rehabilitation assessment, human factors engineering, and brain-computer interface applications. The global annual sales volume of functional near-infrared spectroscopy systems is estimated at around 1,000 units, with an average selling price of approximately USD 270,000 per unit, indicating a high-value equipment market mainly driven by research institutions, universities, and medical organizations.

The upstream supply chain of functional near-infrared spectroscopy systems mainly includes near-infrared light sources, photodetectors, optical fibers and probes, electronic signal acquisition modules, head-mounted wearing structures, algorithm software, and data analysis platforms. Among these components, optical devices, low-noise signal acquisition, and cerebral oxygenation analysis algorithms are key factors affecting system performance and cost. The downstream market mainly consists of universities and academic institutions, medical institutions, independent research

institutes, and enterprise R&D users. Major application scenarios include neuroscience, cognitive psychology, clinical research, rehabilitation assessment, child development studies, human factors engineering, brain-computer interfaces, and wearable brain monitoring. Demand is mainly driven by research projects, clinical research platform construction, and interdisciplinary laboratory procurement.

Functional near-infrared spectroscopy systems represent a promising segment within the brain science research and neurological function assessment equipment market. Compared with traditional large-scale brain imaging equipment, fNIRS systems offer advantages such as non-invasiveness, portability, and the ability to collect brain activity data under more natural task conditions, which supports their expansion in cognitive science, rehabilitation medicine, pediatric research, human factors engineering, and brain-computer interface applications. At present, the market is still mainly driven by research and clinical study demand, while large-scale diagnostic use in hospitals remains in the early stage of exploration. In the future, with the development of wearable designs, high-channel configurations, multimodal integration, and more advanced analytical algorithms, the application scope of fNIRS systems is expected to expand further, and market competition will gradually shift from hardware performance alone toward system integration, software algorithms, and application-oriented solutions.

This report studies the global fNIRS System production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study
Global fNIRS System total production and demand, 2021-2032, (Units)
Global fNIRS System total production value, 2021-2032, (USD Million)
Global fNIRS System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)
Global fNIRS System consumption by region & country, CAGR, 2021-2032 & (Units)
U.S. VS China: fNIRS System domestic production, consumption, key domestic manufacturers and share
Global fNIRS System production by manufacturer, production, price, value and market

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share 2021-2026, (USD Million) & (Units)
Global fNIRS System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)
Global fNIRS System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global fNIRS System 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 Hitachi, Shimadzu, Artinis Medical Systems, NIRx, OBELAB, Biopac, Huichuang Medical, Gowerlabs, Spectratech, Kingfar International, 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 fNIRS System 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 fNIRS System Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Global fNIRS System Market, Segmentation by Type:

Stationary

Portable

Global fNIRS System Market, Segmentation by Number of Channels:

Low-channel fNIRS System

Mid-channel fNIRS System

High-channel fNIRS System

Global fNIRS System Market, Segmentation by Detection Coverage:

Regional Brain Monitoring fNIRS System

Multi-region fNIRS System

Whole-head fNIRS System

Global fNIRS System Market, Segmentation by Application:

Universities and Academic Institutions

Hospitals and Medical Institutions

Independent Research Institutes

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Enterprises and Others

Companies Profiled:

Hitachi

Shimadzu

Artinis Medical Systems

NIRx

OBELAB

Biopac

Huichuang Medical

Gowerlabs

Spectratech

Kingfar International

Key Questions Answered:
1. How big is the global fNIRS System market?
2. What is the demand of the global fNIRS System market?
3. What is the year over year growth of the global fNIRS System market?
4. What is the production and production value of the global fNIRS System market?
5. Who are the key producers in the global fNIRS System market?
6. What are the growth factors driving the market demand?

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