

Global fNIRS System Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global fNIRS System market size was valued at US\$ 291 million in 2025 and is forecast to a readjusted size of US\$ 469 million by 2032 with a CAGR of 7.0% during review period.

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 is a detailed and comprehensive analysis for global fNIRS System market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global fNIRS System market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global fNIRS System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global fNIRS System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global fNIRS System market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for fNIRS System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global fNIRS System market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

fNIRS System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Stationary

Portable

Market segment by Number of Channels

Low-channel fNIRS System

Mid-channel fNIRS System

High-channel fNIRS System

Market segment by Detection Coverage

Regional Brain Monitoring fNIRS System

Multi-region fNIRS System

Whole-head fNIRS System

Market segment by Application

Universities and Academic Institutions

Hospitals and Medical Institutions

Independent Research Institutes

Enterprises and Others

Major players covered

Hitachi

Shimadzu

Artinis Medical Systems

NIRx

OBELAB

Biopac

Huichuang Medical

Gowerlabs

Spectratech

Kingfar International

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe fNIRS System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of fNIRS System, with price, sales quantity, revenue, and global market share of fNIRS System from 2021 to 2026.

Chapter 3, the fNIRS System competitive situation, sales quantity, revenue, and global

market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the fNIRS System breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and fNIRS System market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of fNIRS System.

Chapter 14 and 15, to describe fNIRS System sales channel, distributors, customers, research findings and conclusion.

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