

# Global Functional Near-Infrared Spectroscopy (fNIRS) Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Functional Near-Infrared Spectroscopy (fNIRS) market size was valued at US\$ 189 million in 2024 and is forecast to a readjusted size of USD 389 million by 2031 with a CAGR of 10.9% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Functional Near-Infrared Spectroscopy (fNIRS) is a non-invasive imaging technique used to measure brain activity by detecting changes in blood oxygenation and volume in the cerebral cortex. This technique utilizes near-infrared light, which penetrates the skull and is absorbed differently by oxygenated and deoxygenated hemoglobin. By placing sensors on the scalp, fNIRS can capture the hemodynamic responses associated with neural activity, providing insights into brain function during various cognitive tasks. fNIRS is portable, relatively inexpensive, and less restrictive than other neuroimaging methods like fMRI, making it suitable for studying populations that are difficult to assess with traditional imaging techniques, such as infants, elderly individuals, and patients with movement disorders. It is commonly used in cognitive neuroscience, psychology, and clinical research to study brain functions like language, memory, and attention.

This report is a detailed and comprehensive analysis for global Functional Near-Infrared Spectroscopy (fNIRS) 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 Functional Near-Infrared Spectroscopy (fNIRS) market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Functional Near-Infrared Spectroscopy (fNIRS) market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Functional Near-Infrared Spectroscopy (fNIRS) market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Functional Near-Infrared Spectroscopy (fNIRS) market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

### **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 Functional Near-Infrared Spectroscopy (fNIRS)
- 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 Functional Near-Infrared Spectroscopy (fNIRS) 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 NIRx, Artinis Medical Systems, OBELAB, Hitachi, Shimadzu, BIOPAC Systems, Gowerlabs, Huichuang Medical, Spectratech, etc.

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

### **Market Segmentation**

*Global Functional Near-Infrared Spectroscopy (fNIRS) Market 2025 by Manufacturers, Regions, Type and Applicati...*

Functional Near-Infrared Spectroscopy (fNIRS) market is split by Type and by Application. For the period 2020-2031, 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**

Desktop

Floor-standing

### **Market segment by Application**

Clinical Diagnosis

Research

### **Major players covered**

NIRx

Artinis Medical Systems

OBELAB

Hitachi

Shimadzu

BIOPAC Systems

Gowerlabs

Huichuang Medical

## Spectratech

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 Functional Near-Infrared Spectroscopy (fNIRS) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Functional Near-Infrared Spectroscopy (fNIRS), with price, sales quantity, revenue, and global market share of Functional Near-Infrared Spectroscopy (fNIRS) from 2020 to 2025.

Chapter 3, the Functional Near-Infrared Spectroscopy (fNIRS) competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Functional Near-Infrared Spectroscopy (fNIRS) breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Functional Near-Infrared Spectroscopy (fNIRS) market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Functional Near-Infrared Spectroscopy (fNIRS).

Chapter 14 and 15, to describe Functional Near-Infrared Spectroscopy (fNIRS) sales channel, distributors, customers, research findings and conclusion.

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