

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Functional Near-infrared Spectroscopy Imaging (fNIRS) 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 Imaging (fNIRS) 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 Imaging (fNIRS)s 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 Imaging (fNIRS)s 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.

This report studies the global Functional Near-infrared Spectroscopy Imaging (fNIRS) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Functional Near-infrared Spectroscopy Imaging (fNIRS) 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 Functional Near-infrared Spectroscopy Imaging (fNIRS) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) total production and demand, 2021-2032, (Units)

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) total production value, 2021-2032, (USD Million)

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Functional Near-infrared Spectroscopy Imaging (fNIRS) domestic production, consumption, key domestic manufacturers and share

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Functional Near-infrared Spectroscopy

Imaging (fNIRS) 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 Functional Near-infrared Spectroscopy Imaging (fNIRS) 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 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 Functional Near-infrared Spectroscopy Imaging (fNIRS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) Market, Segmentation by Type:

Stationary

Portable

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) Market, Segmentation by Number of Channels:

Low-channel fNIRS System

Mid-channel fNIRS System

High-channel fNIRS System

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) Market, Segmentation by Detection Coverage:

Regional Brain Monitoring fNIRS System

Multi-region fNIRS System

Whole-head fNIRS System

Global Functional Near-infrared Spectroscopy Imaging (fNIRS) Market, Segmentation by Application:

Universities and Academic Institutions

Hospitals and Medical Institutions

Independent Research Institutes

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 Functional Near-infrared Spectroscopy Imaging (fNIRS) market?
2. What is the demand of the global Functional Near-infrared Spectroscopy Imaging (fNIRS) market?
3. What is the year over year growth of the global Functional Near-infrared Spectroscopy Imaging (fNIRS) market?
4. What is the production and production value of the global Functional Near-infrared Spectroscopy Imaging (fNIRS) market?
5. Who are the key producers in the global Functional Near-infrared Spectroscopy Imaging (fNIRS) market?
6. What are the growth factors driving the market demand?

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