

Global Functional Near-Infrared Spectroscopy Imaging Device Market Growth 2026-2032

<https://marketpublishers.com/r/G8D6EF3B6354EN.html>

Date: July 2026

Pages: 95

Price: US\$ 3,660.00 (Single User License)

ID: G8D6EF3B6354EN

Abstracts

The global Functional Near-Infrared Spectroscopy Imaging Device market size is predicted to grow from US\$ 276 million in 2025 to US\$ 457 million in 2032; it is expected to grow at a CAGR of 7.5% from 2026 to 2032.

A Functional Near-Infrared Spectroscopy Imaging Device 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 Devices 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 Devices 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.

United States market for Functional Near-Infrared Spectroscopy Imaging Device is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Functional Near-Infrared Spectroscopy Imaging Device is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Functional Near-Infrared Spectroscopy Imaging Device is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Functional Near-Infrared Spectroscopy Imaging Device players cover Hitachi, Shimadzu, Artinis Medical Systems, NIRx, OBELAB, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Functional Near-Infrared Spectroscopy Imaging Device Industry Forecast" looks at past sales and reviews total world Functional Near-Infrared Spectroscopy Imaging Device sales in 2025, providing a comprehensive analysis by region and market sector of projected Functional Near-Infrared Spectroscopy Imaging Device sales for 2026 through 2032. With Functional Near-Infrared Spectroscopy Imaging Device sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Functional Near-Infrared Spectroscopy Imaging Device industry.

This Insight Report provides a comprehensive analysis of the global Functional Near-Infrared Spectroscopy Imaging Device landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Functional Near-Infrared Spectroscopy Imaging Device portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an

accelerating global Functional Near-Infrared Spectroscopy Imaging Device market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Functional Near-Infrared Spectroscopy Imaging Device and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Functional Near-Infrared Spectroscopy Imaging Device.

This report presents a comprehensive overview, market shares, and growth opportunities of Functional Near-Infrared Spectroscopy Imaging Device market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Stationary

Portable

Segmentation by Number of Channels:

Low-channel fNIRS System

Mid-channel fNIRS System

High-channel fNIRS System

Segmentation by Detection Coverage:

Regional Brain Monitoring fNIRS System

Multi-region fNIRS System

Whole-head fNIRS System

Segmentation by Application:

Universities and Academic Institutions

Hospitals and Medical Institutions

Independent Research Institutes

Enterprises and Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Hitachi

Shimadzu

Artinis Medical Systems

NIRx

OBELAB

Biopac

Huichuang Medical

Gowerlabs

Spectratech

Kingfar International

Key Questions Addressed in this Report

What is the 10-year outlook for the global Functional Near-Infrared Spectroscopy Imaging Device market?

What factors are driving Functional Near-Infrared Spectroscopy Imaging Device market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Functional Near-Infrared Spectroscopy Imaging Device market opportunities vary by end market size?

How does Functional Near-Infrared Spectroscopy Imaging Device break out by Type, by Application?

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