

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

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Abstracts

The global Functional Near-Infrared Spectroscopy (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 (fNIRS) 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 (fNIRS) 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 (fNIRS) 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 (fNIRS) 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 Functional Near-Infrared Spectroscopy (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 (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 (fNIRS) that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

site)

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

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

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

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

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

This report profiles key players in the global Functional Near-Infrared Spectroscopy (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 (fNIRS) 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 Functional Near-Infrared Spectroscopy (fNIRS) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Stationary

Portable

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

Low-channel fNIRS System

Mid-channel fNIRS System

High-channel fNIRS System

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

Regional Brain Monitoring fNIRS System

Multi-region fNIRS System

Whole-head fNIRS System

Global Functional Near-Infrared Spectroscopy (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 (fNIRS) market?
2. What is the demand of the global Functional Near-Infrared Spectroscopy (fNIRS) market?

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

Contents

1 SUPPLY SUMMARY

- 1.1 Functional Near-Infrared Spectroscopy (fNIRS) Introduction
- 1.2 World Functional Near-Infrared Spectroscopy (fNIRS) Supply & Forecast
 - 1.2.1 World Functional Near-Infrared Spectroscopy (fNIRS) Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2032)
 - 1.2.3 World Functional Near-Infrared Spectroscopy (fNIRS) Pricing Trends (2021-2032)
- 1.3 World Functional Near-Infrared Spectroscopy (fNIRS) Production by Region (Based on Production Site)
 - 1.3.1 World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Region (2021-2032)
 - 1.3.2 World Functional Near-Infrared Spectroscopy (fNIRS) Production by Region (2021-2032)
 - 1.3.3 World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Region (2021-2032)
 - 1.3.4 North America Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2032)
 - 1.3.5 Europe Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2032)
 - 1.3.6 China Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2032)
 - 1.3.7 Japan Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Functional Near-Infrared Spectroscopy (fNIRS) Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Functional Near-Infrared Spectroscopy (fNIRS) Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Functional Near-Infrared Spectroscopy (fNIRS) Demand (2021-2032)
- 2.2 World Functional Near-Infrared Spectroscopy (fNIRS) Consumption by Region
 - 2.2.1 World Functional Near-Infrared Spectroscopy (fNIRS) Consumption by Region (2021-2026)
 - 2.2.2 World Functional Near-Infrared Spectroscopy (fNIRS) Consumption Forecast by Region (2027-2032)
- 2.3 United States Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032)

- 2.4 China Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032)
- 2.5 Europe Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032)
- 2.6 Japan Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032)
- 2.7 South Korea Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032)
- 2.8 ASEAN Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032)
- 2.9 India Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Manufacturer (2021-2026)
- 3.2 World Functional Near-Infrared Spectroscopy (fNIRS) Production by Manufacturer (2021-2026)
- 3.3 World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Manufacturer (2021-2026)
- 3.4 Functional Near-Infrared Spectroscopy (fNIRS) Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Functional Near-Infrared Spectroscopy (fNIRS) in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Functional Near-Infrared Spectroscopy (fNIRS) in 2025
- 3.6 Functional Near-Infrared Spectroscopy (fNIRS) Market: Overall Company Footprint Analysis
 - 3.6.1 Functional Near-Infrared Spectroscopy (fNIRS) Market: Region Footprint
 - 3.6.2 Functional Near-Infrared Spectroscopy (fNIRS) Market: Company Product Type Footprint
 - 3.6.3 Functional Near-Infrared Spectroscopy (fNIRS) Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Production Value Comparison

4.1.1 United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Production Comparison

4.2.1 United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Consumption Comparison

4.3.1 United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Functional Near-Infrared Spectroscopy (fNIRS) Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Functional Near-Infrared Spectroscopy (fNIRS) Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Value (2021-2026)

4.4.3 United States Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2026)

4.5 China Based Functional Near-Infrared Spectroscopy (fNIRS) Manufacturers and Market Share

4.5.1 China Based Functional Near-Infrared Spectroscopy (fNIRS) Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Value (2021-2026)

4.5.3 China Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2026)

4.6 Rest of World Based Functional Near-Infrared Spectroscopy (fNIRS) Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Functional Near-Infrared Spectroscopy (fNIRS) Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Functional Near-Infrared Spectroscopy (fNIRS) Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Stationary

5.2.2 Portable

5.3 Market Segment by Type

5.3.1 World Functional Near-Infrared Spectroscopy (fNIRS) Production by Type (2021-2032)

5.3.2 World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Type (2021-2032)

5.3.3 World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY NUMBER OF CHANNELS

6.1 World Functional Near-Infrared Spectroscopy (fNIRS) Market Size Overview by Number of Channels: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Number of Channels

6.2.1 Low-channel fNIRS System

6.2.2 Mid-channel fNIRS System

6.2.3 High-channel fNIRS System

6.3 Market Segment by Number of Channels

6.3.1 World Functional Near-Infrared Spectroscopy (fNIRS) Production by Number of Channels (2021-2032)

6.3.2 World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Number of Channels (2021-2032)

6.3.3 World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Number of Channels (2021-2032)

7 MARKET ANALYSIS BY DETECTION COVERAGE

7.1 World Functional Near-Infrared Spectroscopy (fNIRS) Market Size Overview by

Detection Coverage: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Detection Coverage

7.2.1 Regional Brain Monitoring fNIRS System

7.2.2 Multi-region fNIRS System

7.2.3 Whole-head fNIRS System

7.3 Market Segment by Detection Coverage

7.3.1 World Functional Near-Infrared Spectroscopy (fNIRS) Production by Detection Coverage (2021-2032)

7.3.2 World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Detection Coverage (2021-2032)

7.3.3 World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Detection Coverage (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Functional Near-Infrared Spectroscopy (fNIRS) Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Universities and Academic Institutions

8.2.2 Hospitals and Medical Institutions

8.2.3 Independent Research Institutes

8.2.4 Enterprises and Others

8.3 Market Segment by Application

8.3.1 World Functional Near-Infrared Spectroscopy (fNIRS) Production by Application (2021-2032)

8.3.2 World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Application (2021-2032)

8.3.3 World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Hitachi

9.1.1 Hitachi Details

9.1.2 Hitachi Major Business

9.1.3 Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

9.1.4 Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Hitachi Recent Developments/Updates

- 9.1.6 Hitachi Competitive Strengths & Weaknesses
- 9.2 Shimadzu
 - 9.2.1 Shimadzu Details
 - 9.2.2 Shimadzu Major Business
 - 9.2.3 Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Product and Services
 - 9.2.4 Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Shimadzu Recent Developments/Updates
 - 9.2.6 Shimadzu Competitive Strengths & Weaknesses
- 9.3 Artinis Medical Systems
 - 9.3.1 Artinis Medical Systems Details
 - 9.3.2 Artinis Medical Systems Major Business
 - 9.3.3 Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Product and Services
 - 9.3.4 Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Artinis Medical Systems Recent Developments/Updates
 - 9.3.6 Artinis Medical Systems Competitive Strengths & Weaknesses
- 9.4 NIRx
 - 9.4.1 NIRx Details
 - 9.4.2 NIRx Major Business
 - 9.4.3 NIRx Functional Near-Infrared Spectroscopy (fNIRS) Product and Services
 - 9.4.4 NIRx Functional Near-Infrared Spectroscopy (fNIRS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 NIRx Recent Developments/Updates
 - 9.4.6 NIRx Competitive Strengths & Weaknesses
- 9.5 OBELAB
 - 9.5.1 OBELAB Details
 - 9.5.2 OBELAB Major Business
 - 9.5.3 OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Product and Services
 - 9.5.4 OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 OBELAB Recent Developments/Updates
 - 9.5.6 OBELAB Competitive Strengths & Weaknesses
- 9.6 Biopac
 - 9.6.1 Biopac Details
 - 9.6.2 Biopac Major Business
 - 9.6.3 Biopac Functional Near-Infrared Spectroscopy (fNIRS) Product and Services
 - 9.6.4 Biopac Functional Near-Infrared Spectroscopy (fNIRS) Production, Price, Value,

Gross Margin and Market Share (2021-2026)

9.6.5 Biopac Recent Developments/Updates

9.6.6 Biopac Competitive Strengths & Weaknesses

9.7 Huichuang Medical

9.7.1 Huichuang Medical Details

9.7.2 Huichuang Medical Major Business

9.7.3 Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

9.7.4 Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Huichuang Medical Recent Developments/Updates

9.7.6 Huichuang Medical Competitive Strengths & Weaknesses

9.8 Gowerlabs

9.8.1 Gowerlabs Details

9.8.2 Gowerlabs Major Business

9.8.3 Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

9.8.4 Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Gowerlabs Recent Developments/Updates

9.8.6 Gowerlabs Competitive Strengths & Weaknesses

9.9 Spectratech

9.9.1 Spectratech Details

9.9.2 Spectratech Major Business

9.9.3 Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

9.9.4 Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 Spectratech Recent Developments/Updates

9.9.6 Spectratech Competitive Strengths & Weaknesses

9.10 Kingfar International

9.10.1 Kingfar International Details

9.10.2 Kingfar International Major Business

9.10.3 Kingfar International Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

9.10.4 Kingfar International Functional Near-Infrared Spectroscopy (fNIRS) Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Kingfar International Recent Developments/Updates

9.10.6 Kingfar International Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Functional Near-Infrared Spectroscopy (fNIRS) Industry Chain
- 10.2 Functional Near-Infrared Spectroscopy (fNIRS) Upstream Analysis
 - 10.2.1 Functional Near-Infrared Spectroscopy (fNIRS) Core Raw Materials
 - 10.2.2 Main Manufacturers of Functional Near-Infrared Spectroscopy (fNIRS) Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Functional Near-Infrared Spectroscopy (fNIRS) Production Mode
- 10.6 Functional Near-Infrared Spectroscopy (fNIRS) Procurement Model
- 10.7 Functional Near-Infrared Spectroscopy (fNIRS) Industry Sales Model and Sales Channels
 - 10.7.1 Functional Near-Infrared Spectroscopy (fNIRS) Sales Model
 - 10.7.2 Functional Near-Infrared Spectroscopy (fNIRS) Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source
- 12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Region (2021-2026) & (USD Million)

Table 3. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Region (2027-2032) & (USD Million)

Table 4. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share by Region (2021-2026)

Table 5. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share by Region (2027-2032)

Table 6. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Region (2021-2026) & (Units)

Table 7. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Region (2027-2032) & (Units)

Table 8. World Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share by Region (2021-2026)

Table 9. World Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share by Region (2027-2032)

Table 10. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Functional Near-Infrared Spectroscopy (fNIRS) Major Market Trends

Table 13. World Functional Near-Infrared Spectroscopy (fNIRS) Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Functional Near-Infrared Spectroscopy (fNIRS) Consumption by Region (2021-2026) & (Units)

Table 15. World Functional Near-Infrared Spectroscopy (fNIRS) Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Functional Near-Infrared Spectroscopy (fNIRS) Producers in 2025

Table 18. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Functional Near-Infrared Spectroscopy (fNIRS) Producers in 2025

Table 20. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Functional Near-Infrared Spectroscopy (fNIRS) Company Evaluation Quadrant

Table 22. World Functional Near-Infrared Spectroscopy (fNIRS) Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Functional Near-Infrared Spectroscopy (fNIRS) Production Site of Key Manufacturer

Table 24. Functional Near-Infrared Spectroscopy (fNIRS) Market: Company Product Type Footprint

Table 25. Functional Near-Infrared Spectroscopy (fNIRS) Market: Company Product Application Footprint

Table 26. Functional Near-Infrared Spectroscopy (fNIRS) Competitive Factors

Table 27. Functional Near-Infrared Spectroscopy (fNIRS) New Entrant and Capacity Expansion Plans

Table 28. Functional Near-Infrared Spectroscopy (fNIRS) Mergers & Acquisitions Activity

Table 29. United States VS China Functional Near-Infrared Spectroscopy (fNIRS) Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Functional Near-Infrared Spectroscopy (fNIRS) Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Functional Near-Infrared Spectroscopy (fNIRS) Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Functional Near-Infrared Spectroscopy (fNIRS) Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share (2021-2026)

Table 37. China Based Functional Near-Infrared Spectroscopy (fNIRS) Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share (2021-2026)

Table 42. Rest of World Based Functional Near-Infrared Spectroscopy (fNIRS) Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share (2021-2026)

Table 47. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Type (2021-2026) & (Units)

Table 49. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Type (2027-2032) & (Units)

Table 50. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Type (2021-2026) & (USD Million)

Table 51. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Type (2027-2032) & (USD Million)

Table 52. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Number of Channels, (USD Million), 2021 & 2025 & 2032

Table 55. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Number of Channels (2021-2026) & (Units)

Table 56. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Number of Channels (2027-2032) & (Units)

Table 57. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Number of Channels (2021-2026) & (USD Million)

Table 58. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by

Number of Channels (2027-2032) & (USD Million)

Table 59. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Number of Channels (2021-2026) & (US\$/Unit)

Table 60. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Number of Channels (2027-2032) & (US\$/Unit)

Table 61. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Detection Coverage, (USD Million), 2021 & 2025 & 2032

Table 62. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Detection Coverage (2021-2026) & (Units)

Table 63. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Detection Coverage (2027-2032) & (Units)

Table 64. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Detection Coverage (2021-2026) & (USD Million)

Table 65. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Detection Coverage (2027-2032) & (USD Million)

Table 66. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Detection Coverage (2021-2026) & (US\$/Unit)

Table 67. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Detection Coverage (2027-2032) & (US\$/Unit)

Table 68. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Application (2021-2026) & (Units)

Table 70. World Functional Near-Infrared Spectroscopy (fNIRS) Production by Application (2027-2032) & (Units)

Table 71. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Application (2021-2026) & (USD Million)

Table 72. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Application (2027-2032) & (USD Million)

Table 73. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Hitachi Basic Information, Manufacturing Base and Competitors

Table 76. Hitachi Major Business

Table 77. Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

Table 78. Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Hitachi Recent Developments/Updates

Table 80. Hitachi Competitive Strengths & Weaknesses

Table 81. Shimadzu Basic Information, Manufacturing Base and Competitors

Table 82. Shimadzu Major Business

Table 83. Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

Table 84. Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Shimadzu Recent Developments/Updates

Table 86. Shimadzu Competitive Strengths & Weaknesses

Table 87. Artinis Medical Systems Basic Information, Manufacturing Base and Competitors

Table 88. Artinis Medical Systems Major Business

Table 89. Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

Table 90. Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Artinis Medical Systems Recent Developments/Updates

Table 92. Artinis Medical Systems Competitive Strengths & Weaknesses

Table 93. NIRx Basic Information, Manufacturing Base and Competitors

Table 94. NIRx Major Business

Table 95. NIRx Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

Table 96. NIRx Functional Near-Infrared Spectroscopy (fNIRS) Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. NIRx Recent Developments/Updates

Table 98. NIRx Competitive Strengths & Weaknesses

Table 99. OBELAB Basic Information, Manufacturing Base and Competitors

Table 100. OBELAB Major Business

Table 101. OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

Table 102. OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. OBELAB Recent Developments/Updates

Table 104. OBELAB Competitive Strengths & Weaknesses

Table 105. Biopac Basic Information, Manufacturing Base and Competitors

Table 106. Biopac Major Business

Table 107. Biopac Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

Table 108. Biopac Functional Near-Infrared Spectroscopy (fNIRS) Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Biopac Recent Developments/Updates

Table 110. Biopac Competitive Strengths & Weaknesses

Table 111. Huichuang Medical Basic Information, Manufacturing Base and Competitors

Table 112. Huichuang Medical Major Business

Table 113. Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

Table 114. Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Huichuang Medical Recent Developments/Updates

Table 116. Huichuang Medical Competitive Strengths & Weaknesses

Table 117. Gowerlabs Basic Information, Manufacturing Base and Competitors

Table 118. Gowerlabs Major Business

Table 119. Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

Table 120. Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Gowerlabs Recent Developments/Updates

Table 122. Gowerlabs Competitive Strengths & Weaknesses

Table 123. Spectratech Basic Information, Manufacturing Base and Competitors

Table 124. Spectratech Major Business

Table 125. Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

Table 126. Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Spectratech Recent Developments/Updates

Table 128. Spectratech Competitive Strengths & Weaknesses

Table 129. Kingfar International Basic Information, Manufacturing Base and Competitors

Table 130. Kingfar International Major Business

Table 131. Kingfar International Functional Near-Infrared Spectroscopy (fNIRS) Product and Services

Table 132. Kingfar International Functional Near-Infrared Spectroscopy (fNIRS) Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Kingfar International Recent Developments/Updates

Table 134. Kingfar International Competitive Strengths & Weaknesses

Table 135. Global Key Players of Functional Near-Infrared Spectroscopy (fNIRS) Upstream (Raw Materials)

Table 136. Global Functional Near-Infrared Spectroscopy (fNIRS) Typical Customers

Table 137. Functional Near-Infrared Spectroscopy (fNIRS) Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Functional Near-Infrared Spectroscopy (fNIRS) Picture
- Figure 2. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2032) & (Units)
- Figure 5. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share by Region (2021-2032)
- Figure 7. World Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share by Region (2021-2032)
- Figure 8. North America Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2032) & (Units)
- Figure 9. Europe Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2032) & (Units)
- Figure 10. China Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2032) & (Units)
- Figure 11. Japan Functional Near-Infrared Spectroscopy (fNIRS) Production (2021-2032) & (Units)
- Figure 12. Functional Near-Infrared Spectroscopy (fNIRS) Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032) & (Units)
- Figure 15. World Functional Near-Infrared Spectroscopy (fNIRS) Consumption Market Share by Region (2021-2032)
- Figure 16. United States Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032) & (Units)
- Figure 17. China Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032) & (Units)
- Figure 18. Europe Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032) & (Units)
- Figure 19. Japan Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032) & (Units)

Figure 20. South Korea Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032) & (Units)

Figure 21. ASEAN Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032) & (Units)

Figure 22. India Functional Near-Infrared Spectroscopy (fNIRS) Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Functional Near-Infrared Spectroscopy (fNIRS) by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Functional Near-Infrared Spectroscopy (fNIRS) Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Functional Near-Infrared Spectroscopy (fNIRS) Markets in 2025

Figure 26. United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Functional Near-Infrared Spectroscopy (fNIRS) Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share 2025

Figure 30. China Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share 2025

Figure 32. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share by Type in 2025

Figure 34. Stationary

Figure 35. Portable

Figure 36. World Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share by Type (2021-2032)

Figure 37. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share by Type (2021-2032)

Figure 38. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Number of Channels, (USD Million), 2021 & 2025 & 2032

Figure 40. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value

Market Share by Number of Channels in 2025

Figure 41. Low-channel fNIRS System

Figure 42. Mid-channel fNIRS System

Figure 43. High-channel fNIRS System

Figure 44. World Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share by Number of Channels (2021-2032)

Figure 45. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share by Number of Channels (2021-2032)

Figure 46. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Number of Channels (2021-2032) & (US\$/Unit)

Figure 47. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Detection Coverage, (USD Million), 2021 & 2025 & 2032

Figure 48. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share by Detection Coverage in 2025

Figure 49. Regional Brain Monitoring fNIRS System

Figure 50. Multi-region fNIRS System

Figure 51. Whole-head fNIRS System

Figure 52. World Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share by Detection Coverage (2021-2032)

Figure 53. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share by Detection Coverage (2021-2032)

Figure 54. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Detection Coverage (2021-2032) & (US\$/Unit)

Figure 55. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 56. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share by Application in 2025

Figure 57. Universities and Academic Institutions

Figure 58. Hospitals and Medical Institutions

Figure 59. Independent Research Institutes

Figure 60. Enterprises and Others

Figure 61. World Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share by Application (2021-2032)

Figure 62. World Functional Near-Infrared Spectroscopy (fNIRS) Production Value Market Share by Application (2021-2032)

Figure 63. World Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Application (2021-2032) & (US\$/Unit)

Figure 64. Functional Near-Infrared Spectroscopy (fNIRS) Industry Chain

Figure 65. Functional Near-Infrared Spectroscopy (fNIRS) Procurement Model

Figure 66. Functional Near-Infrared Spectroscopy (fNIRS) Sales Model

Figure 67. Functional Near-Infrared Spectroscopy (fNIRS) Sales Channels, Direct Sales, and Distribution

Figure 68. Methodology

Figure 69. Research Process and Data Source

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