

Global Functional Near-Infrared Spectroscopy (fNIRS) Market Research Report 2024, Forecast to 2032

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Abstracts

Report Overview

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.

The global Functional Near-Infrared Spectroscopy (fNIRS) market size was estimated at USD 166 million in 2023 and is projected to reach USD 431.57 million by 2032, exhibiting a CAGR of 11.20% during the forecast period.

North America Functional Near-Infrared Spectroscopy (fNIRS) market size was estimated at USD 51.96 million in 2023, at a CAGR of 9.60% during the forecast period of 2024 through 2032.

This report provides a deep insight into the global Functional Near-Infrared Spectroscopy (fNIRS) market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT

analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Functional Near-Infrared Spectroscopy (fNIRS) Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Functional Near-Infrared Spectroscopy (fNIRS) market in any manner.

Global Functional Near-Infrared Spectroscopy (fNIRS) Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

NIRx

Artinis Medical Systems

OBELAB

Hitachi

Shimadzu

BIOPAC Systems

Gowerlabs

Huichuang Medical

Spectratech

Market Segmentation (by Type)

Desktop

Floor-standing

Market Segmentation (by Application)

Clinical Diagnosis

Research

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Functional Near-Infrared Spectroscopy (fNIRS) Market

Overview of the regional outlook of the Functional Near-Infrared Spectroscopy (fNIRS) Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Functional Near-Infrared Spectroscopy (fNIRS) Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the

market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region from the consumer side and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Functional Near-Infrared Spectroscopy (fNIRS), their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region during the forecast period.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment during the forecast period.

Chapter 13 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Functional Near-Infrared Spectroscopy (fNIRS)
- 1.2 Key Market Segments
 - 1.2.1 Functional Near-Infrared Spectroscopy (fNIRS) Segment by Type
 - 1.2.2 Functional Near-Infrared Spectroscopy (fNIRS) Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 FUNCTIONAL NEAR-INFRARED SPECTROSCOPY (FNIRS) MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size (M USD) Estimates and Forecasts (2019-2032)
 - 2.1.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Estimates and Forecasts (2019-2032)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 FUNCTIONAL NEAR-INFRARED SPECTROSCOPY (FNIRS) MARKET COMPETITIVE LANDSCAPE

- 3.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Manufacturers (2019-2024)
- 3.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Manufacturers (2019-2024)
- 3.3 Functional Near-Infrared Spectroscopy (fNIRS) Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.4 Global Functional Near-Infrared Spectroscopy (fNIRS) Average Price by Manufacturers (2019-2024)
- 3.5 Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Sales Sites, Area Served, Product Type

3.6 Functional Near-Infrared Spectroscopy (fNIRS) Market Competitive Situation and Trends

3.6.1 Functional Near-Infrared Spectroscopy (fNIRS) Market Concentration Rate

3.6.2 Global 5 and 10 Largest Functional Near-Infrared Spectroscopy (fNIRS) Players
Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 FUNCTIONAL NEAR-INFRARED SPECTROSCOPY (FNIRS) INDUSTRY CHAIN ANALYSIS

4.1 Functional Near-Infrared Spectroscopy (fNIRS) Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF FUNCTIONAL NEAR-INFRARED SPECTROSCOPY (FNIRS) MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

6 FUNCTIONAL NEAR-INFRARED SPECTROSCOPY (FNIRS) MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Type (2019-2024)

6.3 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size Market Share by Type (2019-2024)

6.4 Global Functional Near-Infrared Spectroscopy (fNIRS) Price by Type (2019-2024)

7 FUNCTIONAL NEAR-INFRARED SPECTROSCOPY (FNIRS) MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Sales by Application (2019-2024)
- 7.3 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size (M USD) by Application (2019-2024)
- 7.4 Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Growth Rate by Application (2019-2024)

8 FUNCTIONAL NEAR-INFRARED SPECTROSCOPY (FNIRS) MARKET CONSUMPTION BY REGION

- 8.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Region
 - 8.1.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Region
 - 8.1.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Region
- 8.2 North America
 - 8.2.1 North America Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country
 - 8.2.2 U.S.
 - 8.2.3 Canada
 - 8.2.4 Mexico
- 8.3 Europe
 - 8.3.1 Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country
 - 8.3.2 Germany
 - 8.3.3 France
 - 8.3.4 U.K.
 - 8.3.5 Italy
 - 8.3.6 Russia
- 8.4 Asia Pacific
 - 8.4.1 Asia Pacific Functional Near-Infrared Spectroscopy (fNIRS) Sales by Region
 - 8.4.2 China
 - 8.4.3 Japan
 - 8.4.4 South Korea
 - 8.4.5 India
 - 8.4.6 Southeast Asia
- 8.5 South America
 - 8.5.1 South America Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country

8.5.2 Brazil

8.5.3 Argentina

8.5.4 Columbia

8.6 Middle East and Africa

8.6.1 Middle East and Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales by Region

8.6.2 Saudi Arabia

8.6.3 UAE

8.6.4 Egypt

8.6.5 Nigeria

8.6.6 South Africa

9 FUNCTIONAL NEAR-IRRED SPECTROSCOPY (FNIRS) MARKET PRODUCTION BY REGION

9.1 Global Production of Functional Near-Infrared Spectroscopy (fNIRS) by Region (2019-2024)

9.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Region (2019-2024)

9.3 Global Functional Near-Infrared Spectroscopy (fNIRS) Production, Revenue, Price and Gross Margin (2019-2024)

9.4 North America Functional Near-Infrared Spectroscopy (fNIRS) Production

9.4.1 North America Functional Near-Infrared Spectroscopy (fNIRS) Production Growth Rate (2019-2024)

9.4.2 North America Functional Near-Infrared Spectroscopy (fNIRS) Production, Revenue, Price and Gross Margin (2019-2024)

9.5 Europe Functional Near-Infrared Spectroscopy (fNIRS) Production

9.5.1 Europe Functional Near-Infrared Spectroscopy (fNIRS) Production Growth Rate (2019-2024)

9.5.2 Europe Functional Near-Infrared Spectroscopy (fNIRS) Production, Revenue, Price and Gross Margin (2019-2024)

9.6 Japan Functional Near-Infrared Spectroscopy (fNIRS) Production (2019-2024)

9.6.1 Japan Functional Near-Infrared Spectroscopy (fNIRS) Production Growth Rate (2019-2024)

9.6.2 Japan Functional Near-Infrared Spectroscopy (fNIRS) Production, Revenue, Price and Gross Margin (2019-2024)

9.7 China Functional Near-Infrared Spectroscopy (fNIRS) Production (2019-2024)

9.7.1 China Functional Near-Infrared Spectroscopy (fNIRS) Production Growth Rate (2019-2024)

9.7.2 China Functional Near-Infrared Spectroscopy (fNIRS) Production, Revenue, Price and Gross Margin (2019-2024)

10 KEY COMPANIES PROFILE

10.1 NIRx

10.1.1 NIRx Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

10.1.2 NIRx Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

10.1.3 NIRx Functional Near-Infrared Spectroscopy (fNIRS) Product Market

Performance

10.1.4 NIRx Business Overview

10.1.5 NIRx Functional Near-Infrared Spectroscopy (fNIRS) SWOT Analysis

10.1.6 NIRx Recent Developments

10.2 Artinis Medical Systems

10.2.1 Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

10.2.2 Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

10.2.3 Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Product Market Performance

10.2.4 Artinis Medical Systems Business Overview

10.2.5 Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) SWOT Analysis

10.2.6 Artinis Medical Systems Recent Developments

10.3 OBELAB

10.3.1 OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

10.3.2 OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

10.3.3 OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Product Market

Performance

10.3.4 OBELAB Functional Near-Infrared Spectroscopy (fNIRS) SWOT Analysis

10.3.5 OBELAB Business Overview

10.3.6 OBELAB Recent Developments

10.4 Hitachi

10.4.1 Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

10.4.2 Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

10.4.3 Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Product Market

Performance

10.4.4 Hitachi Business Overview

10.4.5 Hitachi Recent Developments

10.5 Shimadzu

10.5.1 Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

10.5.2 Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

10.5.3 Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Product Market

Performance

10.5.4 Shimadzu Business Overview

10.5.5 Shimadzu Recent Developments

10.6 BIOPAC Systems

10.6.1 BIOPAC Systems Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

10.6.2 BIOPAC Systems Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

10.6.3 BIOPAC Systems Functional Near-Infrared Spectroscopy (fNIRS) Product Market Performance

10.6.4 BIOPAC Systems Business Overview

10.6.5 BIOPAC Systems Recent Developments

10.7 Gowerlabs

10.7.1 Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

10.7.2 Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

10.7.3 Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Product Market

Performance

10.7.4 Gowerlabs Business Overview

10.7.5 Gowerlabs Recent Developments

10.8 Huichuang Medical

10.8.1 Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

10.8.2 Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

10.8.3 Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Product Market Performance

10.8.4 Huichuang Medical Business Overview

10.8.5 Huichuang Medical Recent Developments

10.9 Spectratech

10.9.1 Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

10.9.2 Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

10.9.3 Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Product Market

Performance

10.9.4 Spectratech Business Overview

10.9.5 Spectratech Recent Developments

11 FUNCTIONAL NEAR-INFRARED SPECTROSCOPY (FNIRS) MARKET FORECAST BY REGION

- 11.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast
- 11.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Country
 - 11.2.3 Asia Pacific Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Region
 - 11.2.4 South America Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Consumption of Functional Near-Infrared Spectroscopy (fNIRS) by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2032)

- 12.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Forecast by Type (2025-2032)
 - 12.1.1 Global Forecasted Sales of Functional Near-Infrared Spectroscopy (fNIRS) by Type (2025-2032)
 - 12.1.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Type (2025-2032)
 - 12.1.3 Global Forecasted Price of Functional Near-Infrared Spectroscopy (fNIRS) by Type (2025-2032)
- 12.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Forecast by Application (2025-2032)
 - 12.2.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units) Forecast by Application
 - 12.2.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size (M USD) Forecast by Application (2025-2032)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Functional Near-Infrared Spectroscopy (fNIRS) Market Size Comparison by Region (M USD)

Table 5. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units) by Manufacturers (2019-2024)

Table 6. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Manufacturers (2019-2024)

Table 7. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue (M USD) by Manufacturers (2019-2024)

Table 8. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Share by Manufacturers (2019-2024)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Functional Near-Infrared Spectroscopy (fNIRS) as of 2022)

Table 10. Global Market Functional Near-Infrared Spectroscopy (fNIRS) Average Price (USD/Unit) of Key Manufacturers (2019-2024)

Table 11. Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Sales Sites and Area Served

Table 12. Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Product Type

Table 13. Global Functional Near-Infrared Spectroscopy (fNIRS) Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Industry Chain Map of Functional Near-Infrared Spectroscopy (fNIRS)

Table 16. Market Overview of Key Raw Materials

Table 17. Midstream Market Analysis

Table 18. Downstream Customer Analysis

Table 19. Key Development Trends

Table 20. Driving Factors

Table 21. Functional Near-Infrared Spectroscopy (fNIRS) Market Challenges

Table 22. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type (K Units)

Table 23. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size by Type (M USD)

Table 24. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units) by

Type (2019-2024)

Table 25. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Type (2019-2024)

Table 26. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size (M USD) by Type (2019-2024)

Table 27. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size Share by Type (2019-2024)

Table 28. Global Functional Near-Infrared Spectroscopy (fNIRS) Price (USD/Unit) by Type (2019-2024)

Table 29. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units) by Application

Table 30. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size by Application

Table 31. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application (2019-2024) & (K Units)

Table 32. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Application (2019-2024)

Table 33. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application (2019-2024) & (M USD)

Table 34. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Share by Application (2019-2024)

Table 35. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Growth Rate by Application (2019-2024)

Table 36. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Region (2019-2024) & (K Units)

Table 37. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Region (2019-2024)

Table 38. North America Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country (2019-2024) & (K Units)

Table 39. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country (2019-2024) & (K Units)

Table 40. Asia Pacific Functional Near-Infrared Spectroscopy (fNIRS) Sales by Region (2019-2024) & (K Units)

Table 41. South America Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country (2019-2024) & (K Units)

Table 42. Middle East and Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales by Region (2019-2024) & (K Units)

Table 43. Global Functional Near-Infrared Spectroscopy (fNIRS) Production (K Units) by Region (2019-2024)

- Table 44. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue (US\$ Million) by Region (2019-2024)
- Table 45. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Region (2019-2024)
- Table 46. Global Functional Near-Infrared Spectroscopy (fNIRS) Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 47. North America Functional Near-Infrared Spectroscopy (fNIRS) Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 48. Europe Functional Near-Infrared Spectroscopy (fNIRS) Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 49. Japan Functional Near-Infrared Spectroscopy (fNIRS) Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 50. China Functional Near-Infrared Spectroscopy (fNIRS) Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 51. NIRx Functional Near-Infrared Spectroscopy (fNIRS) Basic Information
- Table 52. NIRx Functional Near-Infrared Spectroscopy (fNIRS) Product Overview
- Table 53. NIRx Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 54. NIRx Business Overview
- Table 55. NIRx Functional Near-Infrared Spectroscopy (fNIRS) SWOT Analysis
- Table 56. NIRx Recent Developments
- Table 57. Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Basic Information
- Table 58. Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Product Overview
- Table 59. Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 60. Artinis Medical Systems Business Overview
- Table 61. Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) SWOT Analysis
- Table 62. Artinis Medical Systems Recent Developments
- Table 63. OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Basic Information
- Table 64. OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Product Overview
- Table 65. OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)
- Table 66. OBELAB Functional Near-Infrared Spectroscopy (fNIRS) SWOT Analysis
- Table 67. OBELAB Business Overview
- Table 68. OBELAB Recent Developments
- Table 69. Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

Table 70. Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

Table 71. Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 72. Hitachi Business Overview

Table 73. Hitachi Recent Developments

Table 74. Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

Table 75. Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

Table 76. Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 77. Shimadzu Business Overview

Table 78. Shimadzu Recent Developments

Table 79. BIOPAC Systems Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

Table 80. BIOPAC Systems Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

Table 81. BIOPAC Systems Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 82. BIOPAC Systems Business Overview

Table 83. BIOPAC Systems Recent Developments

Table 84. Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

Table 85. Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

Table 86. Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 87. Gowerlabs Business Overview

Table 88. Gowerlabs Recent Developments

Table 89. Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

Table 90. Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

Table 91. Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 92. Huichuang Medical Business Overview

Table 93. Huichuang Medical Recent Developments

Table 94. Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Basic Information

Table 95. Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Product Overview

Table 96. Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2019-2024)

Table 97. Spectratech Business Overview

Table 98. Spectratech Recent Developments

Table 99. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Region (2025-2032) & (K Units)

Table 100. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Region (2025-2032) & (M USD)

Table 101. North America Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Country (2025-2032) & (K Units)

Table 102. North America Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Country (2025-2032) & (M USD)

Table 103. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Country (2025-2032) & (K Units)

Table 104. Europe Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Country (2025-2032) & (M USD)

Table 105. Asia Pacific Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Region (2025-2032) & (K Units)

Table 106. Asia Pacific Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Region (2025-2032) & (M USD)

Table 107. South America Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Country (2025-2032) & (K Units)

Table 108. South America Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Country (2025-2032) & (M USD)

Table 109. Middle East and Africa Functional Near-Infrared Spectroscopy (fNIRS) Consumption Forecast by Country (2025-2032) & (Units)

Table 110. Middle East and Africa Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Country (2025-2032) & (M USD)

Table 111. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Type (2025-2032) & (K Units)

Table 112. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Type (2025-2032) & (M USD)

Table 113. Global Functional Near-Infrared Spectroscopy (fNIRS) Price Forecast by Type (2025-2032) & (USD/Unit)

Table 114. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units) Forecast by Application (2025-2032)

Table 115. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Application (2025-2032) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Functional Near-Infrared Spectroscopy (fNIRS)
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size (M USD), 2019-2032
- Figure 5. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size (M USD) (2019-2032)
- Figure 6. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units) & (2019-2032)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Functional Near-Infrared Spectroscopy (fNIRS) Market Size by Country (M USD)
- Figure 11. Functional Near-Infrared Spectroscopy (fNIRS) Sales Share by Manufacturers in 2023
- Figure 12. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Share by Manufacturers in 2023
- Figure 13. Functional Near-Infrared Spectroscopy (fNIRS) Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2023
- Figure 14. Global Market Functional Near-Infrared Spectroscopy (fNIRS) Average Price (USD/Unit) of Key Manufacturers in 2023
- Figure 15. The Global 5 and 10 Largest Players: Market Share by Functional Near-Infrared Spectroscopy (fNIRS) Revenue in 2023
- Figure 16. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 17. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Share by Type
- Figure 18. Sales Market Share of Functional Near-Infrared Spectroscopy (fNIRS) by Type (2019-2024)
- Figure 19. Sales Market Share of Functional Near-Infrared Spectroscopy (fNIRS) by Type in 2023
- Figure 20. Market Size Share of Functional Near-Infrared Spectroscopy (fNIRS) by Type (2019-2024)
- Figure 21. Market Size Market Share of Functional Near-Infrared Spectroscopy (fNIRS) by Type in 2023
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 23. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Share by Application

Figure 24. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Application (2019-2024)

Figure 25. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Application in 2023

Figure 26. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Share by Application (2019-2024)

Figure 27. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Share by Application in 2023

Figure 28. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Growth Rate by Application (2019-2024)

Figure 29. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Region (2019-2024)

Figure 30. North America Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 31. North America Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Country in 2023

Figure 32. U.S. Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 33. Canada Functional Near-Infrared Spectroscopy (fNIRS) Sales (K Units) and Growth Rate (2019-2024)

Figure 34. Mexico Functional Near-Infrared Spectroscopy (fNIRS) Sales (Units) and Growth Rate (2019-2024)

Figure 35. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 36. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Country in 2023

Figure 37. Germany Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 38. France Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 39. U.K. Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 40. Italy Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 41. Russia Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 42. Asia Pacific Functional Near-Infrared Spectroscopy (fNIRS) Sales and

Growth Rate (K Units)

Figure 43. Asia Pacific Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Region in 2023

Figure 44. China Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 45. Japan Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 46. South Korea Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 47. India Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 48. Southeast Asia Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 49. South America Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (K Units)

Figure 50. South America Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Country in 2023

Figure 51. Brazil Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 52. Argentina Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 53. Columbia Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 54. Middle East and Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (K Units)

Figure 55. Middle East and Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Region in 2023

Figure 56. Saudi Arabia Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 57. UAE Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 58. Egypt Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 59. Nigeria Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 60. South Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales and Growth Rate (2019-2024) & (K Units)

Figure 61. Global Functional Near-Infrared Spectroscopy (fNIRS) Production Market Share by Region (2019-2024)

Figure 62. North America Functional Near-Infrared Spectroscopy (fNIRS) Production (K Units) Growth Rate (2019-2024)

Figure 63. Europe Functional Near-Infrared Spectroscopy (fNIRS) Production (K Units) Growth Rate (2019-2024)

Figure 64. Japan Functional Near-Infrared Spectroscopy (fNIRS) Production (K Units) Growth Rate (2019-2024)

Figure 65. China Functional Near-Infrared Spectroscopy (fNIRS) Production (K Units) Growth Rate (2019-2024)

Figure 66. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Volume (2019-2032) & (K Units)

Figure 67. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Value (2019-2032) & (M USD)

Figure 68. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share Forecast by Type (2025-2032)

Figure 69. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Share Forecast by Type (2025-2032)

Figure 70. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Application (2025-2032)

Figure 71. Global Functional Near-Infrared Spectroscopy (fNIRS) Market Share Forecast by Application (2025-2032)

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