

# Global Functional Near-Infrared Spectroscopy (fNIRS) Market Growth 2026-2032

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## Abstracts

The global Functional Near-Infrared Spectroscopy (fNIRS) market size is predicted to grow from US\$ 198 million in 2025 to US\$ 422 million in 2032; it is expected to grow at a CAGR of 11.6% from 2026 to 2032.

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.

United States market for Functional Near-Infrared Spectroscopy (fNIRS) 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 (fNIRS) 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 (fNIRS) 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 (fNIRS) players cover NIRx, Artinis Medical Systems, OBELAB, Hitachi, Shimadzu, 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 (fNIRS) Industry Forecast” looks at past sales and reviews total world Functional Near-Infrared Spectroscopy (fNIRS) sales in 2025, providing a comprehensive analysis by region and market sector of projected Functional Near-Infrared Spectroscopy (fNIRS) sales for 2026 through 2032. With Functional Near-Infrared Spectroscopy (fNIRS) 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 (fNIRS) industry.

This Insight Report provides a comprehensive analysis of the global Functional Near-Infrared Spectroscopy (fNIRS) 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 (fNIRS) 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 (fNIRS) market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Functional Near-Infrared Spectroscopy (fNIRS) 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 (fNIRS).

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

### **Segmentation by Type:**

Desktop

Floor-standing

**Segmentation by Application:**

Clinical Diagnosis

Research

**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.

NIRx

Artinis Medical Systems

OBELAB

Hitachi

Shimadzu

BIOPAC Systems

Gowerlabs

Huichuang Medical

Spectratech

## **Key Questions Addressed in this Report**

What is the 10-year outlook for the global Functional Near-Infrared Spectroscopy (fNIRS) market?

What factors are driving Functional Near-Infrared Spectroscopy (fNIRS) market growth, globally and by region?

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

How do Functional Near-Infrared Spectroscopy (fNIRS) market opportunities vary by end market size?

How does Functional Near-Infrared Spectroscopy (fNIRS) break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

#### 2.1 World Market Overview

- 2.1.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Functional Near-Infrared Spectroscopy (fNIRS) by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Functional Near-Infrared Spectroscopy (fNIRS) by Country/Region, 2021, 2025 & 2032

#### 2.2 Functional Near-Infrared Spectroscopy (fNIRS) Segment by Type

- 2.2.1 Desktop
- 2.2.2 Floor-standing
- 2.2.3 Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type
  - 2.2.3.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Type (2021-2026)
  - 2.2.3.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue and Market Share by Type (2021-2026)
  - 2.2.3.3 Global Functional Near-Infrared Spectroscopy (fNIRS) Sale Price by Type (2021-2026)

#### 2.3 Functional Near-Infrared Spectroscopy (fNIRS) Segment by Application

- 2.3.1 Clinical Diagnosis
- 2.3.2 Research
- 2.3.3 Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application
  - 2.3.3.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Sale Market Share by Application (2021-2026)
  - 2.3.3.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue and Market Share by Application (2021-2026)

2.3.3.3 Global Functional Near-Infrared Spectroscopy (fNIRS) Sale Price by Application (2021-2026)

### **3 GLOBAL BY COMPANY**

3.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Breakdown Data by Company

3.1.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Annual Sales by Company (2021-2026)

3.1.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Company (2021-2026)

3.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Annual Revenue by Company (2021-2026)

3.2.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Company (2021-2026)

3.2.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Company (2021-2026)

3.3 Global Functional Near-Infrared Spectroscopy (fNIRS) Sale Price by Company

3.4 Key Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Product Location Distribution

3.4.2 Players Functional Near-Infrared Spectroscopy (fNIRS) Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

### **4 WORLD HISTORIC REVIEW FOR FUNCTIONAL NEAR-IRRED SPECTROSCOPY (FNIRS) BY GEOGRAPHIC REGION**

4.1 World Historic Functional Near-Infrared Spectroscopy (fNIRS) Market Size by Geographic Region (2021-2026)

4.1.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Functional Near-Infrared Spectroscopy (fNIRS) Market Size by

Country/Region (2021-2026)

4.2.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Annual Sales by Country/Region (2021-2026)

4.2.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Annual Revenue by Country/Region (2021-2026)

4.3 Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales Growth

4.4 APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales Growth

4.5 Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales Growth

4.6 Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales Growth

## **5 AMERICAS**

5.1 Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country

5.1.1 Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country (2021-2026)

5.1.2 Americas Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Country (2021-2026)

5.2 Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type (2021-2026)

5.3 Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales by Region

6.1.1 APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales by Region (2021-2026)

6.1.2 APAC Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Region (2021-2026)

6.2 APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type (2021-2026)

6.3 APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe Functional Near-Infrared Spectroscopy (fNIRS) by Country

7.1.1 Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country (2021-2026)

7.1.2 Europe Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Country (2021-2026)

7.2 Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type (2021-2026)

7.3 Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

## **8 MIDDLE EAST & AFRICA**

8.1 Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) by Country

8.1.1 Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country (2021-2026)

8.1.2 Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Country (2021-2026)

8.2 Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type (2021-2026)

8.3 Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Functional Near-Infrared Spectroscopy (fNIRS)
- 10.3 Manufacturing Process Analysis of Functional Near-Infrared Spectroscopy (fNIRS)
- 10.4 Industry Chain Structure of Functional Near-Infrared Spectroscopy (fNIRS)

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

- 11.1 Sales Channel
  - 11.1.1 Direct Channels
  - 11.1.2 Indirect Channels
- 11.2 Functional Near-Infrared Spectroscopy (fNIRS) Distributors
- 11.3 Functional Near-Infrared Spectroscopy (fNIRS) Customer

## **12 WORLD FORECAST REVIEW FOR FUNCTIONAL NEAR-INFRARED SPECTROSCOPY (FNIRS) BY GEOGRAPHIC REGION**

- 12.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Market Size Forecast by Region
  - 12.1.1 Global Functional Near-Infrared Spectroscopy (fNIRS) Forecast by Region (2027-2032)
  - 12.1.2 Global Functional Near-Infrared Spectroscopy (fNIRS) Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Functional Near-Infrared Spectroscopy (fNIRS) Forecast by Type (2027-2032)
- 12.7 Global Functional Near-Infrared Spectroscopy (fNIRS) Forecast by Application (2027-2032)

## 13 KEY PLAYERS ANALYSIS

### 13.1 NIRx

13.1.1 NIRx Company Information

13.1.2 NIRx Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

13.1.3 NIRx Functional Near-Infrared Spectroscopy (fNIRS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 NIRx Main Business Overview

13.1.5 NIRx Latest Developments

### 13.2 Artinis Medical Systems

13.2.1 Artinis Medical Systems Company Information

13.2.2 Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

13.2.3 Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Artinis Medical Systems Main Business Overview

13.2.5 Artinis Medical Systems Latest Developments

### 13.3 OBELAB

13.3.1 OBELAB Company Information

13.3.2 OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

13.3.3 OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 OBELAB Main Business Overview

13.3.5 OBELAB Latest Developments

### 13.4 Hitachi

13.4.1 Hitachi Company Information

13.4.2 Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

13.4.3 Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Hitachi Main Business Overview

13.4.5 Hitachi Latest Developments

### 13.5 Shimadzu

13.5.1 Shimadzu Company Information

13.5.2 Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

13.5.3 Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Sales, Revenue,

## Price and Gross Margin (2021-2026)

### 13.5.4 Shimadzu Main Business Overview

### 13.5.5 Shimadzu Latest Developments

## 13.6 BIOPAC Systems

### 13.6.1 BIOPAC Systems Company Information

### 13.6.2 BIOPAC Systems Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

### 13.6.3 BIOPAC Systems Functional Near-Infrared Spectroscopy (fNIRS) Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.6.4 BIOPAC Systems Main Business Overview

### 13.6.5 BIOPAC Systems Latest Developments

## 13.7 Gowerlabs

### 13.7.1 Gowerlabs Company Information

### 13.7.2 Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

### 13.7.3 Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.7.4 Gowerlabs Main Business Overview

### 13.7.5 Gowerlabs Latest Developments

## 13.8 Huichuang Medical

### 13.8.1 Huichuang Medical Company Information

### 13.8.2 Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

### 13.8.3 Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.8.4 Huichuang Medical Main Business Overview

### 13.8.5 Huichuang Medical Latest Developments

## 13.9 Spectratech

### 13.9.1 Spectratech Company Information

### 13.9.2 Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

### 13.9.3 Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Sales, Revenue, Price and Gross Margin (2021-2026)

### 13.9.4 Spectratech Main Business Overview

### 13.9.5 Spectratech Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Functional Near-Infrared Spectroscopy (fNIRS) Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Functional Near-Infrared Spectroscopy (fNIRS) Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Desktop

Table 4. Major Players of Floor-standing

Table 5. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type (2021-2026) & (Units)

Table 6. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Type (2021-2026)

Table 7. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Type (2021-2026) & (\$ million)

Table 8. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Type (2021-2026)

Table 9. Global Functional Near-Infrared Spectroscopy (fNIRS) Sale Price by Type (2021-2026) & (US\$/Unit)

Table 10. Global Functional Near-Infrared Spectroscopy (fNIRS) Sale by Application (2021-2026) & (Units)

Table 11. Global Functional Near-Infrared Spectroscopy (fNIRS) Sale Market Share by Application (2021-2026)

Table 12. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Application (2021-2026) & (\$ million)

Table 13. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Application (2021-2026)

Table 14. Global Functional Near-Infrared Spectroscopy (fNIRS) Sale Price by Application (2021-2026) & (US\$/Unit)

Table 15. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Company (2021-2026) & (Units)

Table 16. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Company (2021-2026)

Table 17. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Company (2021-2026) & (\$ millions)

Table 18. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Company (2021-2026)

Table 19. Global Functional Near-Infrared Spectroscopy (fNIRS) Sale Price by

Company (2021-2026) & (US\$/Unit)

Table 20. Key Manufacturers Functional Near-Infrared Spectroscopy (fNIRS) Producing Area Distribution and Sales Area

Table 21. Players Functional Near-Infrared Spectroscopy (fNIRS) Products Offered

Table 22. Functional Near-Infrared Spectroscopy (fNIRS) Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 23. New Products and Potential Entrants

Table 24. Market M&A Activity & Strategy

Table 25. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Geographic Region (2021-2026) & (Units)

Table 26. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share Geographic Region (2021-2026)

Table 27. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 28. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Geographic Region (2021-2026)

Table 29. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country/Region (2021-2026) & (Units)

Table 30. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Country/Region (2021-2026)

Table 31. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Country/Region (2021-2026) & (\$ millions)

Table 32. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Country/Region (2021-2026)

Table 33. Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country (2021-2026) & (Units)

Table 34. Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Country (2021-2026)

Table 35. Americas Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Country (2021-2026) & (\$ millions)

Table 36. Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type (2021-2026) & (Units)

Table 37. Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application (2021-2026) & (Units)

Table 38. APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales by Region (2021-2026) & (Units)

Table 39. APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Region (2021-2026)

Table 40. APAC Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Region

(2021-2026) & (\$ millions)

Table 41. APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type

(2021-2026) & (Units)

Table 42. APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application

(2021-2026) & (Units)

Table 43. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country

(2021-2026) & (Units)

Table 44. Europe Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Country

(2021-2026) & (\$ millions)

Table 45. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type

(2021-2026) & (Units)

Table 46. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application

(2021-2026) & (Units)

Table 47. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales by Country (2021-2026) & (Units)

Table 48. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Country (2021-2026)

Table 49. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales by Type (2021-2026) & (Units)

Table 50. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales by Application (2021-2026) & (Units)

Table 51. Key Market Drivers & Growth Opportunities of Functional Near-Infrared Spectroscopy (fNIRS)

Table 52. Key Market Challenges & Risks of Functional Near-Infrared Spectroscopy (fNIRS)

Table 53. Key Industry Trends of Functional Near-Infrared Spectroscopy (fNIRS)

Table 54. Functional Near-Infrared Spectroscopy (fNIRS) Raw Material

Table 55. Key Suppliers of Raw Materials

Table 56. Functional Near-Infrared Spectroscopy (fNIRS) Distributors List

Table 57. Functional Near-Infrared Spectroscopy (fNIRS) Customer List

Table 58. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Region (2027-2032) & (Units)

Table 59. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 60. Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Country (2027-2032) & (Units)

Table 61. Americas Functional Near-Infrared Spectroscopy (fNIRS) Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 62. APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by

Region (2027-2032) & (Units)

Table 63. APAC Functional Near-Infrared Spectroscopy (fNIRS) Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 64. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Country (2027-2032) & (Units)

Table 65. Europe Functional Near-Infrared Spectroscopy (fNIRS) Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 66. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Country (2027-2032) & (Units)

Table 67. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 68. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Type (2027-2032) & (Units)

Table 69. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 70. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Forecast by Application (2027-2032) & (Units)

Table 71. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 72. NIRx Basic Information, Functional Near-Infrared Spectroscopy (fNIRS) Manufacturing Base, Sales Area and Its Competitors

Table 73. NIRx Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

Table 74. NIRx Functional Near-Infrared Spectroscopy (fNIRS) Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 75. NIRx Main Business

Table 76. NIRx Latest Developments

Table 77. Artinis Medical Systems Basic Information, Functional Near-Infrared Spectroscopy (fNIRS) Manufacturing Base, Sales Area and Its Competitors

Table 78. Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

Table 79. Artinis Medical Systems Functional Near-Infrared Spectroscopy (fNIRS) Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 80. Artinis Medical Systems Main Business

Table 81. Artinis Medical Systems Latest Developments

Table 82. OBELAB Basic Information, Functional Near-Infrared Spectroscopy (fNIRS) Manufacturing Base, Sales Area and Its Competitors

Table 83. OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

Table 84. OBELAB Functional Near-Infrared Spectroscopy (fNIRS) Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 85. OBELAB Main Business

Table 86. OBELAB Latest Developments

Table 87. Hitachi Basic Information, Functional Near-Infrared Spectroscopy (fNIRS) Manufacturing Base, Sales Area and Its Competitors

Table 88. Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

Table 89. Hitachi Functional Near-Infrared Spectroscopy (fNIRS) Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Hitachi Main Business

Table 91. Hitachi Latest Developments

Table 92. Shimadzu Basic Information, Functional Near-Infrared Spectroscopy (fNIRS) Manufacturing Base, Sales Area and Its Competitors

Table 93. Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

Table 94. Shimadzu Functional Near-Infrared Spectroscopy (fNIRS) Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Shimadzu Main Business

Table 96. Shimadzu Latest Developments

Table 97. BIOPAC Systems Basic Information, Functional Near-Infrared Spectroscopy (fNIRS) Manufacturing Base, Sales Area and Its Competitors

Table 98. BIOPAC Systems Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

Table 99. BIOPAC Systems Functional Near-Infrared Spectroscopy (fNIRS) Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 100. BIOPAC Systems Main Business

Table 101. BIOPAC Systems Latest Developments

Table 102. Gowerlabs Basic Information, Functional Near-Infrared Spectroscopy (fNIRS) Manufacturing Base, Sales Area and Its Competitors

Table 103. Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

Table 104. Gowerlabs Functional Near-Infrared Spectroscopy (fNIRS) Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 105. Gowerlabs Main Business

Table 106. Gowerlabs Latest Developments

Table 107. Huichuang Medical Basic Information, Functional Near-Infrared Spectroscopy (fNIRS) Manufacturing Base, Sales Area and Its Competitors

Table 108. Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Product

## Portfolios and Specifications

Table 109. Huichuang Medical Functional Near-Infrared Spectroscopy (fNIRS) Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 110. Huichuang Medical Main Business

Table 111. Huichuang Medical Latest Developments

Table 112. Spectratech Basic Information, Functional Near-Infrared Spectroscopy (fNIRS) Manufacturing Base, Sales Area and Its Competitors

Table 113. Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Product Portfolios and Specifications

Table 114. Spectratech Functional Near-Infrared Spectroscopy (fNIRS) Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 115. Spectratech Main Business

Table 116. Spectratech Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Functional Near-Infrared Spectroscopy (fNIRS)
- Figure 2. Functional Near-Infrared Spectroscopy (fNIRS) Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Functional Near-Infrared Spectroscopy (fNIRS) Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Country/Region (2025)
- Figure 10. Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Desktop
- Figure 12. Product Picture of Floor-standing
- Figure 13. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Type in 2026
- Figure 14. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Type (2021-2026)
- Figure 15. Functional Near-Infrared Spectroscopy (fNIRS) Consumed in Clinical Diagnosis
- Figure 16. Global Functional Near-Infrared Spectroscopy (fNIRS) Market: Clinical Diagnosis (2021-2026) & (Units)
- Figure 17. Functional Near-Infrared Spectroscopy (fNIRS) Consumed in Research
- Figure 18. Global Functional Near-Infrared Spectroscopy (fNIRS) Market: Research (2021-2026) & (Units)
- Figure 19. Global Functional Near-Infrared Spectroscopy (fNIRS) Sale Market Share by Application (2025)
- Figure 20. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Application in 2026
- Figure 21. Functional Near-Infrared Spectroscopy (fNIRS) Sales by Company in 2026 (Units)
- Figure 22. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share

by Company in 2026

Figure 23. Functional Near-Infrared Spectroscopy (fNIRS) Revenue by Company in 2026 (\$ millions)

Figure 24. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Company in 2026

Figure 25. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Geographic Region (2021-2026)

Figure 26. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Geographic Region in 2026

Figure 27. Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales 2021-2026 (Units)

Figure 28. Americas Functional Near-Infrared Spectroscopy (fNIRS) Revenue 2021-2026 (\$ millions)

Figure 29. APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales 2021-2026 (Units)

Figure 30. APAC Functional Near-Infrared Spectroscopy (fNIRS) Revenue 2021-2026 (\$ millions)

Figure 31. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales 2021-2026 (Units)

Figure 32. Europe Functional Near-Infrared Spectroscopy (fNIRS) Revenue 2021-2026 (\$ millions)

Figure 33. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales 2021-2026 (Units)

Figure 34. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Revenue 2021-2026 (\$ millions)

Figure 35. Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Country in 2026

Figure 36. Americas Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Country (2021-2026)

Figure 37. Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Type (2021-2026)

Figure 38. Americas Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Application (2021-2026)

Figure 39. United States Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 40. Canada Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 41. Mexico Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 42. Brazil Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 43. APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Region in 2026

Figure 44. APAC Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Region (2021-2026)

Figure 45. APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Type (2021-2026)

Figure 46. APAC Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Application (2021-2026)

Figure 47. China Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 48. Japan Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 49. South Korea Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 50. Southeast Asia Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 51. India Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 52. Australia Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 53. China Taiwan Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 54. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Country in 2026

Figure 55. Europe Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share by Country (2021-2026)

Figure 56. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Type (2021-2026)

Figure 57. Europe Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Application (2021-2026)

Figure 58. Germany Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 59. France Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 60. UK Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 61. Italy Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth

2021-2026 (\$ millions)

Figure 62. Russia Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth

2021-2026 (\$ millions)

Figure 63. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Country (2021-2026)

Figure 64. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Type (2021-2026)

Figure 65. Middle East & Africa Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share by Application (2021-2026)

Figure 66. Egypt Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 67. South Africa Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 68. Israel Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 69. Turkey Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 70. GCC Countries Functional Near-Infrared Spectroscopy (fNIRS) Revenue Growth 2021-2026 (\$ millions)

Figure 71. Manufacturing Cost Structure Analysis of Functional Near-Infrared Spectroscopy (fNIRS) in 2026

Figure 72. Manufacturing Process Analysis of Functional Near-Infrared Spectroscopy (fNIRS)

Figure 73. Industry Chain Structure of Functional Near-Infrared Spectroscopy (fNIRS)

Figure 74. Channels of Distribution

Figure 75. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Forecast by Region (2027-2032)

Figure 76. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share Forecast by Region (2027-2032)

Figure 77. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share Forecast by Type (2027-2032)

Figure 78. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share Forecast by Type (2027-2032)

Figure 79. Global Functional Near-Infrared Spectroscopy (fNIRS) Sales Market Share Forecast by Application (2027-2032)

Figure 80. Global Functional Near-Infrared Spectroscopy (fNIRS) Revenue Market Share Forecast by Application (2027-2032)

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