

Global Non-invasive Vagus Nerve Stimulator Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Non-invasive Vagus Nerve Stimulator market size is expected to reach \$ 80.25 million by 2032, rising at a market growth of 12.2% CAGR during the forecast period (2026-2032).

Non-invasive Vagus Nerve Stimulator refers to a class of non-implantable neuromodulation medical devices that regulate vagus nerve activity through external electrical stimulation applied to the body surface. The products mainly include transcutaneous cervical vagus nerve stimulation (tcVNS) devices and transcutaneous auricular vagus nerve stimulation (taVNS) devices, typically consisting of a stimulation unit, electrodes, control module and supporting software. By adjusting stimulation intensity, frequency, pulse width and treatment programs, these devices modulate autonomic nervous system activity and neural pathways. The market primarily covers commercially available medical and home-use devices applied in neurological disorders, pain management, mental health support, sleep regulation and autonomic function modulation.

Key Findings

The global average selling price of non-invasive vagus nerve stimulators was approximately US\$700–1,200 per unit in 2025.

The industry gross margin was approximately 35%–50%. Portable handheld devices remained the dominant product form.

Wearable and connected devices became an important product upgrade

direction.

North America and Europe remained the major global regions for technology development and commercialization.

Transcutaneous cervical vagus nerve stimulation and transcutaneous auricular vagus nerve stimulation remained the two major technology routes.

Neurological disorders remained the most commercially mature application area.

Market Trends

The non-invasive vagus nerve stimulation industry is transitioning from research-oriented development toward broader clinical adoption and home healthcare applications. Product development is increasingly focused on improving stimulation precision, portability, treatment personalization and digital connectivity. Wearable stimulation systems integrated with mobile applications and remote monitoring functions are becoming important development directions.

Clinical application expansion remains a major industry trend. Existing commercial applications are mainly concentrated in neurological disorders, while depression, anxiety, sleep disorders, inflammatory regulation and autonomic function modulation continue to represent potential growth areas. The future expansion of the market will depend on clinical validation, treatment effectiveness and broader healthcare acceptance.

Market Dynamics

Drivers

The increasing demand for non-surgical alternatives to implantable neuromodulation devices is a major growth driver. Compared with implanted VNS systems, non-invasive devices reduce surgical risks, improve patient acceptance and support long-term home-based treatment. Growing demand for chronic disease management and personalized healthcare solutions further supports market development.

The integration of digital healthcare technologies is also accelerating product

innovation. Devices with connectivity, treatment data tracking and personalized stimulation management capabilities are expected to enhance long-term patient management and create additional value beyond traditional hardware.

Restraints

The market remains constrained by differences in clinical evidence maturity among applications. While headache-related applications have achieved stronger commercialization progress, other indications remain under clinical evaluation. Regulatory differences and limited reimbursement coverage across regions may also slow market penetration.

Compared with implantable VNS systems, non-invasive devices generally provide lower stimulation intensity, which may limit adoption in certain severe neurological applications.

Opportunities

Expansion of home healthcare represents a major opportunity for non-invasive vagus nerve stimulation devices. Increasing demand for convenient and continuous treatment solutions is expected to support wider adoption of portable stimulation systems.

Mental health management, sleep improvement and autonomic regulation represent additional growth opportunities. Integration with wearable devices, artificial intelligence-based treatment optimization and digital therapeutics may further expand future applications.

Challenges

The industry faces challenges related to clinical validation, reimbursement adoption and technology differentiation. Establishing standardized treatment protocols and demonstrating long-term therapeutic benefits remain important for broader medical acceptance. Competition from other neuromodulation technologies may also influence future market positioning.

Industry Chain Analysis

The industry chain includes upstream electronic components, electrodes, semiconductor components and medical-grade materials; midstream device manufacturers responsible for stimulation hardware, software control and regulatory compliance; and downstream healthcare providers, research institutions and home users. Value creation is mainly concentrated in stimulation technology, clinical validation, regulatory approval and specialized healthcare channels.

Value Chain Analysis

Upstream suppliers provide electronic components, batteries, electrodes and supporting materials. Midstream manufacturers create differentiation through stimulation waveform design, device integration, software algorithms and clinical product development. Downstream value realization depends on physician adoption, reimbursement mechanisms, patient acceptance and long-term treatment adherence.

Segment Insights

By technology route, tcVNS and taVNS represent the two major market segments. tcVNS currently contributes greater commercial value due to stronger clinical commercialization, while taVNS maintains growth potential through research adoption and application expansion.

By product form, portable handheld devices represent the largest segment, supported by home healthcare demand and patient accessibility. Wearable and connected devices are expected to achieve faster growth as digital healthcare integration increases.

By application, neurological disorders remain the largest established application area, while mental health and sleep-related applications represent emerging growth opportunities.

Downstream Market Opportunities

Hospitals and clinics remain important purchasing channels for medical-grade systems, particularly in neurological and rehabilitation applications. Home healthcare represents a rapidly expanding downstream opportunity as patients seek convenient and continuous treatment solutions. Research institutions continue to support technology validation and indication expansion.

Regional Insights

North America represents the leading commercial market due to earlier regulatory development, established neuromodulation adoption and stronger healthcare infrastructure. Europe maintains technological advantages in auricular stimulation research and medical device innovation. Asia Pacific represents a high-potential growth region supported by increasing healthcare investment, neurological disease management demand and expanding local medical device capabilities.

Competitive Landscape Analysis

The competitive landscape is mainly concentrated in North America and Europe. Companies in these regions benefit from earlier regulatory experience, accumulated clinical evidence and specialized neuromodulation capabilities. North America focuses more on clinically validated therapeutic applications, while Europe maintains strong activity in auricular stimulation and research-oriented applications. Asia Pacific remains an emerging competitive region, with local companies gradually increasing participation through product localization and regional healthcare demand.

Report Scope

This report studies the global Non-invasive Vagus Nerve Stimulator production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Non-invasive Vagus Nerve Stimulator 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 Non-invasive Vagus Nerve Stimulator that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Non-invasive Vagus Nerve Stimulator total production and demand,
2021-2032, (Units)

Global Non-invasive Vagus Nerve Stimulator total production value, 2021-2032, (USD Million)

Global Non-invasive Vagus Nerve Stimulator production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Non-invasive Vagus Nerve Stimulator consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Non-invasive Vagus Nerve Stimulator domestic production, consumption, key domestic manufacturers and share

Global Non-invasive Vagus Nerve Stimulator production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Non-invasive Vagus Nerve Stimulator production by Technology Route, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Non-invasive Vagus Nerve Stimulator production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Non-invasive Vagus Nerve Stimulator 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 electroCore, Inc., Parasymp Ltd., tVNS Technologies GmbH, NEMOS GmbH, NeuroSigma, Inc., Jiangsu Yuyue Medical Equipment & Supply Co., Ltd., Jiangxi Xinzhi Medical Technology Co., Ltd., Hangzhou Yijian Technology Co., Ltd., Hangzhou Ralway Technology Co., Ltd., NEURIVE Co., Ltd., 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 Non-invasive Vagus Nerve Stimulator market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Technology Route, 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 Non-invasive Vagus Nerve Stimulator Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Non-invasive Vagus Nerve Stimulator Market, Segmentation by Technology Route:

Transcutaneous Cervical Vagus Nerve Stimulation (tcVNS)

Transcutaneous Auricular Vagus Nerve Stimulation (taVNS)

Others

Global Non-invasive Vagus Nerve Stimulator Market, Segmentation by Product Form:

Portable Handheld Devices

Wearable Devices

Others

Global Non-invasive Vagus Nerve Stimulator Market, Segmentation by Application:

Neurological Disorders

Mental Health Disorders

Pain Management

Sleep Disorders

Inflammation and Autonomic Regulation

Others

Companies Profiled:

electroCore, Inc.

Parasym Ltd.

tVNS Technologies GmbH

NEMOS GmbH

NeuroSigma, Inc.

Jiangsu Yuyue Medical Equipment & Supply Co., Ltd.

Jiangxi Xinzhi Medical Technology Co., Ltd.

Hangzhou Yijian Technology Co., Ltd.

Hangzhou Ralway Technology Co., Ltd.

NEURIVE Co., Ltd.

Key Questions Answered

1. How big is the global Non-invasive Vagus Nerve Stimulator market?
2. What is the demand of the global Non-invasive Vagus Nerve Stimulator market?
3. What is the year over year growth of the global Non-invasive Vagus Nerve Stimulator market?
4. What is the total value of the global Non-invasive Vagus Nerve Stimulator market?
5. Who are the Major Players in the global Non-invasive Vagus Nerve Stimulator market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Non-invasive Vagus Nerve Stimulator Demand (2021-2032)
- 2.2 World Non-invasive Vagus Nerve Stimulator Consumption by Region
 - 2.2.1 World Non-invasive Vagus Nerve Stimulator Consumption by Region (2021-2026)
 - 2.2.2 World Non-invasive Vagus Nerve Stimulator Consumption Forecast by Region (2027-2032)
- 2.3 United States Non-invasive Vagus Nerve Stimulator Consumption (2021-2032)
- 2.4 China Non-invasive Vagus Nerve Stimulator Consumption (2021-2032)
- 2.5 Europe Non-invasive Vagus Nerve Stimulator Consumption (2021-2032)
- 2.6 Japan Non-invasive Vagus Nerve Stimulator Consumption (2021-2032)
- 2.7 South Korea Non-invasive Vagus Nerve Stimulator Consumption (2021-2032)

2.8 ASEAN Non-invasive Vagus Nerve Stimulator Consumption (2021-2032)

2.9 India Non-invasive Vagus Nerve Stimulator Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Non-invasive Vagus Nerve Stimulator Production Value by Manufacturer (2021-2026)

3.2 World Non-invasive Vagus Nerve Stimulator Production by Manufacturer (2021-2026)

3.3 World Non-invasive Vagus Nerve Stimulator Average Price by Manufacturer (2021-2026)

3.4 Non-invasive Vagus Nerve Stimulator Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Non-invasive Vagus Nerve Stimulator Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Non-invasive Vagus Nerve Stimulator in 2025

3.5.3 Global Concentration Ratios (CR8) for Non-invasive Vagus Nerve Stimulator in 2025

3.6 Non-invasive Vagus Nerve Stimulator Market: Overall Company Footprint Analysis

3.6.1 Non-invasive Vagus Nerve Stimulator Market: Region Footprint

3.6.2 Non-invasive Vagus Nerve Stimulator Market: Company Product Type Footprint

3.6.3 Non-invasive Vagus Nerve Stimulator 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: Non-invasive Vagus Nerve Stimulator Production Value Comparison

4.1.1 United States VS China: Non-invasive Vagus Nerve Stimulator Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Non-invasive Vagus Nerve Stimulator Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Non-invasive Vagus Nerve Stimulator Production Comparison

4.2.1 United States VS China: Non-invasive Vagus Nerve Stimulator Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Non-invasive Vagus Nerve Stimulator Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Non-invasive Vagus Nerve Stimulator Consumption Comparison

4.3.1 United States VS China: Non-invasive Vagus Nerve Stimulator Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Non-invasive Vagus Nerve Stimulator Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Non-invasive Vagus Nerve Stimulator Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Non-invasive Vagus Nerve Stimulator Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Value (2021-2026)

4.4.3 United States Based Manufacturers Non-invasive Vagus Nerve Stimulator Production (2021-2026)

4.5 China Based Non-invasive Vagus Nerve Stimulator Manufacturers and Market Share

4.5.1 China Based Non-invasive Vagus Nerve Stimulator Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Value (2021-2026)

4.5.3 China Based Manufacturers Non-invasive Vagus Nerve Stimulator Production (2021-2026)

4.6 Rest of World Based Non-invasive Vagus Nerve Stimulator Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Non-invasive Vagus Nerve Stimulator Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Non-invasive Vagus Nerve Stimulator Production (2021-2026)

5 MARKET ANALYSIS BY TECHNOLOGY ROUTE

5.1 World Non-invasive Vagus Nerve Stimulator Market Size Overview by Technology Route: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Technology Route

5.2.1 Transcutaneous Cervical Vagus Nerve Stimulation (tcVNS)

5.2.2 Transcutaneous Auricular Vagus Nerve Stimulation (taVNS)

5.2.3 Others

5.3 Market Segment by Technology Route

5.3.1 World Non-invasive Vagus Nerve Stimulator Production by Technology Route (2021-2032)

5.3.2 World Non-invasive Vagus Nerve Stimulator Production Value by Technology Route (2021-2032)

5.3.3 World Non-invasive Vagus Nerve Stimulator Average Price by Technology Route (2021-2032)

6 MARKET ANALYSIS BY PRODUCT FORM

6.1 World Non-invasive Vagus Nerve Stimulator Market Size Overview by Product Form: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Product Form

6.2.1 Portable Handheld Devices

6.2.2 Wearable Devices

6.2.3 Others

6.3 Market Segment by Product Form

6.3.1 World Non-invasive Vagus Nerve Stimulator Production by Product Form (2021-2032)

6.3.2 World Non-invasive Vagus Nerve Stimulator Production Value by Product Form (2021-2032)

6.3.3 World Non-invasive Vagus Nerve Stimulator Average Price by Product Form (2021-2032)

7 MARKET ANALYSIS BY APPLICATION

7.1 World Non-invasive Vagus Nerve Stimulator Market Size Overview by Application: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Application

7.2.1 Neurological Disorders

7.2.2 Mental Health Disorders

7.2.3 Pain Management

7.2.4 Sleep Disorders

7.2.5 Inflammation and Autonomic Regulation

7.2.6 Others

7.3 Market Segment by Application

7.3.1 World Non-invasive Vagus Nerve Stimulator Production by Application
(2021-2032)

7.3.2 World Non-invasive Vagus Nerve Stimulator Production Value by Application
(2021-2032)

7.3.3 World Non-invasive Vagus Nerve Stimulator Average Price by Application
(2021-2032)

8 COMPANY PROFILES

8.1 electroCore, Inc.

8.1.1 electroCore, Inc. Details

8.1.2 electroCore, Inc. Major Business

8.1.3 electroCore, Inc. Non-invasive Vagus Nerve Stimulator Product and Services

8.1.4 electroCore, Inc. Non-invasive Vagus Nerve Stimulator Production, Price, Value,
Gross Margin and Market Share (2021-2026)

8.1.5 electroCore, Inc. Recent Developments/Updates

8.1.6 electroCore, Inc. Competitive Strengths & Weaknesses

8.2 Parasym Ltd.

8.2.1 Parasym Ltd. Details

8.2.2 Parasym Ltd. Major Business

8.2.3 Parasym Ltd. Non-invasive Vagus Nerve Stimulator Product and Services

8.2.4 Parasym Ltd. Non-invasive Vagus Nerve Stimulator Production, Price, Value,
Gross Margin and Market Share (2021-2026)

8.2.5 Parasym Ltd. Recent Developments/Updates

8.2.6 Parasym Ltd. Competitive Strengths & Weaknesses

8.3 tVNS Technologies GmbH

8.3.1 tVNS Technologies GmbH Details

8.3.2 tVNS Technologies GmbH Major Business

8.3.3 tVNS Technologies GmbH Non-invasive Vagus Nerve Stimulator Product and
Services

8.3.4 tVNS Technologies GmbH Non-invasive Vagus Nerve Stimulator Production,
Price, Value, Gross Margin and Market Share (2021-2026)

8.3.5 tVNS Technologies GmbH Recent Developments/Updates

8.3.6 tVNS Technologies GmbH Competitive Strengths & Weaknesses

8.4 NEMOS GmbH

8.4.1 NEMOS GmbH Details

- 8.4.2 NEMOS GmbH Major Business
- 8.4.3 NEMOS GmbH Non-invasive Vagus Nerve Stimulator Product and Services
- 8.4.4 NEMOS GmbH Non-invasive Vagus Nerve Stimulator Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 8.4.5 NEMOS GmbH Recent Developments/Updates
- 8.4.6 NEMOS GmbH Competitive Strengths & Weaknesses
- 8.5 NeuroSigma, Inc.
 - 8.5.1 NeuroSigma, Inc. Details
 - 8.5.2 NeuroSigma, Inc. Major Business
 - 8.5.3 NeuroSigma, Inc. Non-invasive Vagus Nerve Stimulator Product and Services
 - 8.5.4 NeuroSigma, Inc. Non-invasive Vagus Nerve Stimulator Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.5.5 NeuroSigma, Inc. Recent Developments/Updates
 - 8.5.6 NeuroSigma, Inc. Competitive Strengths & Weaknesses
- 8.6 Jiangsu Yuyue Medical Equipment & Supply Co., Ltd.
 - 8.6.1 Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Details
 - 8.6.2 Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Major Business
 - 8.6.3 Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Non-invasive Vagus Nerve Stimulator Product and Services
 - 8.6.4 Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Non-invasive Vagus Nerve Stimulator Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.6.5 Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Recent Developments/Updates
 - 8.6.6 Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Competitive Strengths & Weaknesses
- 8.7 Jiangxi Xinzhi Medical Technology Co., Ltd.
 - 8.7.1 Jiangxi Xinzhi Medical Technology Co., Ltd. Details
 - 8.7.2 Jiangxi Xinzhi Medical Technology Co., Ltd. Major Business
 - 8.7.3 Jiangxi Xinzhi Medical Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Product and Services
 - 8.7.4 Jiangxi Xinzhi Medical Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 8.7.5 Jiangxi Xinzhi Medical Technology Co., Ltd. Recent Developments/Updates
 - 8.7.6 Jiangxi Xinzhi Medical Technology Co., Ltd. Competitive Strengths & Weaknesses
- 8.8 Hangzhou Yijian Technology Co., Ltd.
 - 8.8.1 Hangzhou Yijian Technology Co., Ltd. Details
 - 8.8.2 Hangzhou Yijian Technology Co., Ltd. Major Business
 - 8.8.3 Hangzhou Yijian Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator

Product and Services

8.8.4 Hangzhou Yijian Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.8.5 Hangzhou Yijian Technology Co., Ltd. Recent Developments/Updates

8.8.6 Hangzhou Yijian Technology Co., Ltd. Competitive Strengths & Weaknesses

8.9 Hangzhou Ralaway Technology Co., Ltd.

8.9.1 Hangzhou Ralaway Technology Co., Ltd. Details

8.9.2 Hangzhou Ralaway Technology Co., Ltd. Major Business

8.9.3 Hangzhou Ralaway Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Product and Services

8.9.4 Hangzhou Ralaway Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.9.5 Hangzhou Ralaway Technology Co., Ltd. Recent Developments/Updates

8.9.6 Hangzhou Ralaway Technology Co., Ltd. Competitive Strengths & Weaknesses

8.10 NEURIVE Co., Ltd.

8.10.1 NEURIVE Co., Ltd. Details

8.10.2 NEURIVE Co., Ltd. Major Business

8.10.3 NEURIVE Co., Ltd. Non-invasive Vagus Nerve Stimulator Product and Services

8.10.4 NEURIVE Co., Ltd. Non-invasive Vagus Nerve Stimulator Production, Price, Value, Gross Margin and Market Share (2021-2026)

8.10.5 NEURIVE Co., Ltd. Recent Developments/Updates

8.10.6 NEURIVE Co., Ltd. Competitive Strengths & Weaknesses

9 INDUSTRY CHAIN ANALYSIS

9.1 Non-invasive Vagus Nerve Stimulator Industry Chain

9.2 Non-invasive Vagus Nerve Stimulator Upstream Analysis

9.2.1 Non-invasive Vagus Nerve Stimulator Core Raw Materials

9.2.2 Main Manufacturers of Non-invasive Vagus Nerve Stimulator Core Raw Materials

9.3 Midstream Analysis

9.4 Downstream Analysis

9.5 Non-invasive Vagus Nerve Stimulator Production Mode

9.6 Non-invasive Vagus Nerve Stimulator Procurement Model

9.7 Non-invasive Vagus Nerve Stimulator Industry Sales Model and Sales Channels

9.7.1 Non-invasive Vagus Nerve Stimulator Sales Model

9.7.2 Non-invasive Vagus Nerve Stimulator Typical Distributors

10 RESEARCH FINDINGS AND CONCLUSION

11 APPENDIX

11.1 Methodology

11.2 Research Process and Data Source

11.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Non-invasive Vagus Nerve Stimulator Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Non-invasive Vagus Nerve Stimulator Production Value by Region (2021-2026) & (USD Million)

Table 3. World Non-invasive Vagus Nerve Stimulator Production Value by Region (2027-2032) & (USD Million)

Table 4. World Non-invasive Vagus Nerve Stimulator Production Value Market Share by Region (2021-2026)

Table 5. World Non-invasive Vagus Nerve Stimulator Production Value Market Share by Region (2027-2032)

Table 6. World Non-invasive Vagus Nerve Stimulator Production by Region (2021-2026) & (Units)

Table 7. World Non-invasive Vagus Nerve Stimulator Production by Region (2027-2032) & (Units)

Table 8. World Non-invasive Vagus Nerve Stimulator Production Market Share by Region (2021-2026)

Table 9. World Non-invasive Vagus Nerve Stimulator Production Market Share by Region (2027-2032)

Table 10. World Non-invasive Vagus Nerve Stimulator Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Non-invasive Vagus Nerve Stimulator Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Non-invasive Vagus Nerve Stimulator Major Market Trends

Table 13. World Non-invasive Vagus Nerve Stimulator Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Non-invasive Vagus Nerve Stimulator Consumption by Region (2021-2026) & (Units)

Table 15. World Non-invasive Vagus Nerve Stimulator Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Non-invasive Vagus Nerve Stimulator Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Non-invasive Vagus Nerve Stimulator Producers in 2025

Table 18. World Non-invasive Vagus Nerve Stimulator Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Non-invasive Vagus Nerve Stimulator Producers in 2025

Table 20. World Non-invasive Vagus Nerve Stimulator Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Non-invasive Vagus Nerve Stimulator Company Evaluation Quadrant

Table 22. World Non-invasive Vagus Nerve Stimulator Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Non-invasive Vagus Nerve Stimulator Production Site of Key Manufacturer

Table 24. Non-invasive Vagus Nerve Stimulator Market: Company Product Type Footprint

Table 25. Non-invasive Vagus Nerve Stimulator Market: Company Product Application Footprint

Table 26. Non-invasive Vagus Nerve Stimulator Competitive Factors

Table 27. Non-invasive Vagus Nerve Stimulator New Entrant and Capacity Expansion Plans

Table 28. Non-invasive Vagus Nerve Stimulator Mergers & Acquisitions Activity

Table 29. United States VS China Non-invasive Vagus Nerve Stimulator Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Non-invasive Vagus Nerve Stimulator Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Non-invasive Vagus Nerve Stimulator Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Non-invasive Vagus Nerve Stimulator Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Non-invasive Vagus Nerve Stimulator Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Market Share (2021-2026)

Table 37. China Based Non-invasive Vagus Nerve Stimulator Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Non-invasive Vagus Nerve Stimulator Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Market Share (2021-2026)

Table 42. Rest of World Based Non-invasive Vagus Nerve Stimulator Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Non-invasive Vagus Nerve Stimulator Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Market Share (2021-2026)

Table 47. World Non-invasive Vagus Nerve Stimulator Production Value by Technology Route, (USD Million), 2021 & 2025 & 2032

Table 48. World Non-invasive Vagus Nerve Stimulator Production by Technology Route (2021-2026) & (Units)

Table 49. World Non-invasive Vagus Nerve Stimulator Production by Technology Route (2027-2032) & (Units)

Table 50. World Non-invasive Vagus Nerve Stimulator Production Value by Technology Route (2021-2026) & (USD Million)

Table 51. World Non-invasive Vagus Nerve Stimulator Production Value by Technology Route (2027-2032) & (USD Million)

Table 52. World Non-invasive Vagus Nerve Stimulator Average Price by Technology Route (2021-2026) & (K US\$/Unit)

Table 53. World Non-invasive Vagus Nerve Stimulator Average Price by Technology Route (2027-2032) & (K US\$/Unit)

Table 54. World Non-invasive Vagus Nerve Stimulator Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Non-invasive Vagus Nerve Stimulator Production by Product Form (2021-2026) & (Units)

Table 56. World Non-invasive Vagus Nerve Stimulator Production by Product Form (2027-2032) & (Units)

Table 57. World Non-invasive Vagus Nerve Stimulator Production Value by Product Form (2021-2026) & (USD Million)

Table 58. World Non-invasive Vagus Nerve Stimulator Production Value by Product Form (2027-2032) & (USD Million)

Table 59. World Non-invasive Vagus Nerve Stimulator Average Price by Product Form

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

Table 60. World Non-invasive Vagus Nerve Stimulator Average Price by Product Form (2027-2032) & (K US\$/Unit)

Table 61. World Non-invasive Vagus Nerve Stimulator Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World Non-invasive Vagus Nerve Stimulator Production by Application (2021-2026) & (Units)

Table 63. World Non-invasive Vagus Nerve Stimulator Production by Application (2027-2032) & (Units)

Table 64. World Non-invasive Vagus Nerve Stimulator Production Value by Application (2021-2026) & (USD Million)

Table 65. World Non-invasive Vagus Nerve Stimulator Production Value by Application (2027-2032) & (USD Million)

Table 66. World Non-invasive Vagus Nerve Stimulator Average Price by Application (2021-2026) & (K US\$/Unit)

Table 67. World Non-invasive Vagus Nerve Stimulator Average Price by Application (2027-2032) & (K US\$/Unit)

Table 68. electroCore, Inc. Basic Information, Manufacturing Base and Competitors

Table 69. electroCore, Inc. Major Business

Table 70. electroCore, Inc. Non-invasive Vagus Nerve Stimulator Product and Services

Table 71. electroCore, Inc. Non-invasive Vagus Nerve Stimulator Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. electroCore, Inc. Recent Developments/Updates

Table 73. electroCore, Inc. Competitive Strengths & Weaknesses

Table 74. Parasymp Ltd. Basic Information, Manufacturing Base and Competitors

Table 75. Parasymp Ltd. Major Business

Table 76. Parasymp Ltd. Non-invasive Vagus Nerve Stimulator Product and Services

Table 77. Parasymp Ltd. Non-invasive Vagus Nerve Stimulator Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. Parasymp Ltd. Recent Developments/Updates

Table 79. Parasymp Ltd. Competitive Strengths & Weaknesses

Table 80. tVNS Technologies GmbH Basic Information, Manufacturing Base and Competitors

Table 81. tVNS Technologies GmbH Major Business

Table 82. tVNS Technologies GmbH Non-invasive Vagus Nerve Stimulator Product and Services

Table 83. tVNS Technologies GmbH Non-invasive Vagus Nerve Stimulator Production

(Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. tVNS Technologies GmbH Recent Developments/Updates

Table 85. tVNS Technologies GmbH Competitive Strengths & Weaknesses

Table 86. NEMOS GmbH Basic Information, Manufacturing Base and Competitors

Table 87. NEMOS GmbH Major Business

Table 88. NEMOS GmbH Non-invasive Vagus Nerve Stimulator Product and Services

Table 89. NEMOS GmbH Non-invasive Vagus Nerve Stimulator Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. NEMOS GmbH Recent Developments/Updates

Table 91. NEMOS GmbH Competitive Strengths & Weaknesses

Table 92. NeuroSigma, Inc. Basic Information, Manufacturing Base and Competitors

Table 93. NeuroSigma, Inc. Major Business

Table 94. NeuroSigma, Inc. Non-invasive Vagus Nerve Stimulator Product and Services

Table 95. NeuroSigma, Inc. Non-invasive Vagus Nerve Stimulator Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 96. NeuroSigma, Inc. Recent Developments/Updates

Table 97. NeuroSigma, Inc. Competitive Strengths & Weaknesses

Table 98. Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 99. Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Major Business

Table 100. Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Non-invasive Vagus Nerve Stimulator Product and Services

Table 101. Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Non-invasive Vagus Nerve Stimulator Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 102. Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Recent Developments/Updates

Table 103. Jiangsu Yuyue Medical Equipment & Supply Co., Ltd. Competitive Strengths & Weaknesses

Table 104. Jiangxi Xinzhi Medical Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 105. Jiangxi Xinzhi Medical Technology Co., Ltd. Major Business

Table 106. Jiangxi Xinzhi Medical Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Product and Services

Table 107. Jiangxi Xinzhi Medical Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Production (Units), Price (K US\$/Unit), Production Value (USD Million),

Gross Margin and Market Share (2021-2026)

Table 108. Jiangxi Xinzhibe Medical Technology Co., Ltd. Recent Developments/Updates

Table 109. Jiangxi Xinzhibe Medical Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 110. Hangzhou Yijian Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 111. Hangzhou Yijian Technology Co., Ltd. Major Business

Table 112. Hangzhou Yijian Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Product and Services

Table 113. Hangzhou Yijian Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 114. Hangzhou Yijian Technology Co., Ltd. Recent Developments/Updates

Table 115. Hangzhou Yijian Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 116. Hangzhou Ralway Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 117. Hangzhou Ralway Technology Co., Ltd. Major Business

Table 118. Hangzhou Ralway Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Product and Services

Table 119. Hangzhou Ralway Technology Co., Ltd. Non-invasive Vagus Nerve Stimulator Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Hangzhou Ralway Technology Co., Ltd. Recent Developments/Updates

Table 121. Hangzhou Ralway Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 122. NEURIVE Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 123. NEURIVE Co., Ltd. Major Business

Table 124. NEURIVE Co., Ltd. Non-invasive Vagus Nerve Stimulator Product and Services

Table 125. NEURIVE Co., Ltd. Non-invasive Vagus Nerve Stimulator Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. NEURIVE Co., Ltd. Recent Developments/Updates

Table 127. NEURIVE Co., Ltd. Competitive Strengths & Weaknesses

Table 128. Global Key Players of Non-invasive Vagus Nerve Stimulator Upstream (Raw Materials)

Table 129. Global Non-invasive Vagus Nerve Stimulator Typical Customers

Table 130. Non-invasive Vagus Nerve Stimulator Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Non-invasive Vagus Nerve Stimulator Picture
- Figure 2. World Non-invasive Vagus Nerve Stimulator Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Non-invasive Vagus Nerve Stimulator Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Non-invasive Vagus Nerve Stimulator Production (2021-2032) & (Units)
- Figure 5. World Non-invasive Vagus Nerve Stimulator Average Price (2021-2032) & (K US\$/Unit)
- Figure 6. World Non-invasive Vagus Nerve Stimulator Production Value Market Share by Region (2021-2032)
- Figure 7. World Non-invasive Vagus Nerve Stimulator Production Market Share by Region (2021-2032)
- Figure 8. North America Non-invasive Vagus Nerve Stimulator Production (2021-2032) & (Units)
- Figure 9. Europe Non-invasive Vagus Nerve Stimulator Production (2021-2032) & (Units)
- Figure 10. China Non-invasive Vagus Nerve Stimulator Production (2021-2032) & (Units)
- Figure 11. South Korea Non-invasive Vagus Nerve Stimulator Production (2021-2032) & (Units)
- Figure 12. Non-invasive Vagus Nerve Stimulator Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Non-invasive Vagus Nerve Stimulator Consumption (2021-2032) & (Units)
- Figure 15. World Non-invasive Vagus Nerve Stimulator Consumption Market Share by Region (2021-2032)
- Figure 16. United States Non-invasive Vagus Nerve Stimulator Consumption (2021-2032) & (Units)
- Figure 17. China Non-invasive Vagus Nerve Stimulator Consumption (2021-2032) & (Units)
- Figure 18. Europe Non-invasive Vagus Nerve Stimulator Consumption (2021-2032) & (Units)
- Figure 19. Japan Non-invasive Vagus Nerve Stimulator Consumption (2021-2032) & (Units)
- Figure 20. South Korea Non-invasive Vagus Nerve Stimulator Consumption

(2021-2032) & (Units)

Figure 21. ASEAN Non-invasive Vagus Nerve Stimulator Consumption (2021-2032) & (Units)

Figure 22. India Non-invasive Vagus Nerve Stimulator Consumption (2021-2032) & (Units)

Figure 23. Producer Shipments of Non-invasive Vagus Nerve Stimulator by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Non-invasive Vagus Nerve Stimulator Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Non-invasive Vagus Nerve Stimulator Markets in 2025

Figure 26. United States VS China: Non-invasive Vagus Nerve Stimulator Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Non-invasive Vagus Nerve Stimulator Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Non-invasive Vagus Nerve Stimulator Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Market Share 2025

Figure 30. China Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Non-invasive Vagus Nerve Stimulator Production Market Share 2025

Figure 32. World Non-invasive Vagus Nerve Stimulator Production Value by Technology Route, (USD Million), 2021 & 2025 & 2032

Figure 33. World Non-invasive Vagus Nerve Stimulator Production Value Market Share by Technology Route in 2025

Figure 34. Transcutaneous Cervical Vagus Nerve Stimulation (tcVNS)

Figure 35. Transcutaneous Auricular Vagus Nerve Stimulation (taVNS)

Figure 36. Others

Figure 37. World Non-invasive Vagus Nerve Stimulator Production Market Share by Technology Route (2021-2032)

Figure 38. World Non-invasive Vagus Nerve Stimulator Production Value Market Share by Technology Route (2021-2032)

Figure 39. World Non-invasive Vagus Nerve Stimulator Average Price by Technology Route (2021-2032) & (K US\$/Unit)

Figure 40. World Non-invasive Vagus Nerve Stimulator Production Value by Product Form, (USD Million), 2021 & 2025 & 2032

Figure 41. World Non-invasive Vagus Nerve Stimulator Production Value Market Share

by Product Form in 2025

Figure 42. Portable Handheld Devices

Figure 43. Wearable Devices

Figure 44. Others

Figure 45. World Non-invasive Vagus Nerve Stimulator Production Market Share by Product Form (2021-2032)

Figure 46. World Non-invasive Vagus Nerve Stimulator Production Value Market Share by Product Form (2021-2032)

Figure 47. World Non-invasive Vagus Nerve Stimulator Average Price by Product Form (2021-2032) & (K US\$/Unit)

Figure 48. World Non-invasive Vagus Nerve Stimulator Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 49. World Non-invasive Vagus Nerve Stimulator Production Value Market Share by Application in 2025

Figure 50. Neurological Disorders

Figure 51. Mental Health Disorders

Figure 52. Pain Management

Figure 53. Sleep Disorders

Figure 54. Inflammation and Autonomic Regulation

Figure 55. Others

Figure 56. World Non-invasive Vagus Nerve Stimulator Production Market Share by Application (2021-2032)

Figure 57. World Non-invasive Vagus Nerve Stimulator Production Value Market Share by Application (2021-2032)

Figure 58. World Non-invasive Vagus Nerve Stimulator Average Price by Application (2021-2032) & (K US\$/Unit)

Figure 59. Non-invasive Vagus Nerve Stimulator Industry Chain

Figure 60. Non-invasive Vagus Nerve Stimulator Procurement Model

Figure 61. Non-invasive Vagus Nerve Stimulator Sales Model

Figure 62. Non-invasive Vagus Nerve Stimulator Sales Channels, Direct Sales, and Distribution

Figure 63. Methodology

Figure 64. Research Process and Data Source

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