

South Korea Neuromodulation Market Size, Share, Trends and Forecast by Technology, Biomaterial, Application, and Region, 2026-2034

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Abstracts

The South Korea neuromodulation market size reached USD 167.7 Million in 2025. The market is projected to reach USD 331.6 Million by 2034, exhibiting a growth rate (CAGR) of 7.55% during 2026-2034. Rising cases of neurological disorders like epilepsy are catalyzing the demand for advanced minimally invasive treatments, involving neuromodulation. In addition, the broadening of specialized hospitals and neurology clinics aids in improving access to expert care and modern equipment. These centers are enhancing treatment success and supporting patient trust, thereby fueling the South Korea neuromodulation market share.

SOUTH KOREA NEUROMODULATION MARKET TRENDS:

Growing prevalence of neurological disorders

Rising prevalence of neurological disorders is positively influencing the market in South Korea. Conditions, such as epilepsy, Parkinson's disease, chronic pain, and treatment-resistant depression, are becoming more common due to an aging population and lifestyle-related risk factors. According to the data released by the Ministry of the Interior and Safety, as of December 2024, the number of individuals aged 65 and above was 10.24 Million, representing 20% of South Korea's total population of 51 Million. As neurological disorders often lead to reduced quality of life, long-term disability, and high healthcare costs, patients and healthcare providers are actively seeking alternative therapies. Neuromodulation offers targeted, minimally invasive treatment for many of these conditions, making it the preferred option. As awareness is growing among both doctors and patients, more people are considering neuromodulation devices like spinal cord stimulators and vagus nerve stimulators as reliable solutions. Traditional

treatments, including medication and surgery, may not work for every patient or may cause side effects, which further boosts interest in neuromodulation. With neurological conditions being chronic and progressive, the requirement for long-term, controllable, and adjustable therapies is rising steadily.

Broadening of specialized hospitals and neurology clinics

Expansion of specialized hospitals and neurology clinics is impelling the South Korea neuromodulation market growth. As more dedicated centers are opening across the country, patients with complex neurological disorders can receive expert care. In December 2024, Seoul National University Bundang Hospital (SNUBH), together with CurePSP, Inc. and GemVax & KAEL Co., Ltd., revealed plans to create South Korea's first 'International Progressive Supranuclear Palsy (PSP) Research and Treatment Centre'. The facility would utilize the organization's skills and facilities to promote education, treatment, and research. It would also tackle associated issues, such as behavioral and neurological disorders linked to addiction, emphasizing substance misuse. These specialized facilities are equipped with modern diagnostic tools, skilled neurologists, and trained staff who are capable of managing and delivering neuromodulation therapies effectively. With better infrastructure and clinical support, the success rate and safety of neuromodulation procedures improve, making them more acceptable to both doctors and patients. Specialized hospitals also play an important role in spreading awareness, conducting research, and training healthcare professionals, which boosts confidence in neuromodulation treatments. In urban areas, the growing number of such clinics helps reduce waiting times and makes advanced care more accessible. In addition, collaboration between the public and private sectors is facilitating the expansion of these facilities across regions.

SOUTH KOREA NEUROMODULATION MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on technology, biomaterial, and application.

Technology Insights:

Internal Neuromodulation

Spinal Cord Stimulation (SCS)

Deep Brain Stimulation (DBS)

Vagus Nerve Stimulation (VNS)

Sacral Nerve Stimulation (SNS)

Gastric Electrical Stimulation (GES)

External Neuromodulation

Transcutaneous Electrical Nerve Stimulation (TENS)

Transcranial Magnetic Stimulation (TMS)

Others

The report has provided a detailed breakup and analysis of the market based on the technology. This includes internal neuromodulation (spinal cord stimulation (SCS), deep brain stimulation (DBS), vagus nerve stimulation (VNS), sacral nerve stimulation (SNS), and gastric electrical stimulation (GES)) and external neuromodulation (transcutaneous electrical nerve stimulation (TENS), transcranial magnetic stimulation (TMS), and others).

Biomaterial Insights:

Metallic Biomaterials

Polymeric Biomaterials

Ceramic Biomaterials

A detailed breakup and analysis of the market based on the biomaterial have also been provided in the report. This includes metallic biomaterials, polymeric biomaterials, and ceramic biomaterials.

Application Insights:

Parkinson's Disease

Epilepsy

Depression

Dystonia

Pain Management

The report has provided a detailed breakup and analysis of the market based on the application. This includes Parkinson's disease, epilepsy, depression, dystonia, pain management, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

South Korea Neuromodulation Market Size, Share, Trends and Forecast by Technology, Biomaterial, Application, a...

How has the South Korea neuromodulation market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea neuromodulation market on the basis of technology?

What is the breakup of the South Korea neuromodulation market on the basis of biomaterial?

What is the breakup of the South Korea neuromodulation market on the basis of application?

What is the breakup of the South Korea neuromodulation market on the basis of region?

What are the various stages in the value chain of the South Korea neuromodulation market?

What are the key driving factors and challenges in the South Korea neuromodulation market?

What is the structure of the South Korea neuromodulation market and who are the key players?

What is the degree of competition in the South Korea neuromodulation market?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 SOUTH KOREA NEUROMODULATION MARKET - INTRODUCTION

- 4.1 Overview
- 4.2 Market Dynamics
- 4.3 Industry Trends
- 4.4 Competitive Intelligence

5 SOUTH KOREA NEUROMODULATION MARKET LANDSCAPE

- 5.1 Historical and Current Market Trends (2020-2025)
- 5.2 Market Forecast (2026-2034)

6 SOUTH KOREA NEUROMODULATION MARKET - BREAKUP BY TECHNOLOGY

- 6.1 Internal Neuromodulation
 - 6.1.1 Overview
 - 6.1.2 Historical and Current Market Trends (2020-2025)
 - 6.1.3 Market Segmentation
 - 6.1.3.1 Spinal Cord Stimulation (SCS)
 - 6.1.3.2 Deep Brain Stimulation (DBS)
 - 6.1.3.3 Vagus Nerve Stimulation (VNS)

- 6.1.3.4 Sacral Nerve Stimulation (SNS)
- 6.1.3.5 Gastric Electrical Stimulation (GES)
- 6.1.4 Market Forecast (2026-2034)
- 6.2 External Neuromodulation
 - 6.2.1 Overview
 - 6.2.2 Historical and Current Market Trends (2020-2025)
 - 6.2.3 Market Segmentation
 - 6.2.3.1 Transcutaneous Electrical Nerve Stimulation (TENS)
 - 6.2.3.2 Transcranial Magnetic Stimulation (TMS)
 - 6.2.3.3 Others
 - 6.2.4 Market Forecast (2026-2034)

7 SOUTH KOREA NEUROMODULATION MARKET - BREAKUP BY BIOMATERIAL

- 7.1 Metallic Biomaterials
 - 7.1.1 Overview
 - 7.1.2 Historical and Current Market Trends (2020-2025)
 - 7.1.3 Market Forecast (2026-2034)
- 7.2 Polymeric Biomaterials
 - 7.2.1 Overview
 - 7.2.2 Historical and Current Market Trends (2020-2025)
 - 7.2.3 Market Forecast (2026-2034)
- 7.3 Ceramic Biomaterials
 - 7.3.1 Overview
 - 7.3.2 Historical and Current Market Trends (2020-2025)
 - 7.3.3 Market Forecast (2026-2034)

8 SOUTH KOREA NEUROMODULATION MARKET - BREAKUP BY APPLICATION

- 8.1 Parkinson's Disease
 - 8.1.1 Overview
 - 8.1.2 Historical and Current Market Trends (2020-2025)
 - 8.1.3 Market Forecast (2026-2034)
- 8.2 Epilepsy
 - 8.2.1 Overview
 - 8.2.2 Historical and Current Market Trends (2020-2025)
 - 8.2.3 Market Forecast (2026-2034)
- 8.3 Depression
 - 8.3.1 Overview

8.3.2 Historical and Current Market Trends (2020-2025)

8.3.3 Market Forecast (2026-2034)

8.4 Dystonia

8.4.1 Overview

8.4.2 Historical and Current Market Trends (2020-2025)

8.4.3 Market Forecast (2026-2034)

8.5 Pain Management

8.5.1 Overview

8.5.2 Historical and Current Market Trends (2020-2025)

8.5.3 Market Forecast (2026-2034)

8.6 Others

8.6.1 Historical and Current Market Trends (2020-2025)

8.6.2 Market Forecast (2026-2034)

9 SOUTH KOREA NEUROMODULATION MARKET – BREAKUP BY REGION

9.1 Seoul Capital Area

9.1.1 Overview

9.1.2 Historical and Current Market Trends (2020-2025)

9.1.3 Market Breakup by Technology

9.1.4 Market Breakup by Biomaterial

9.1.5 Market Breakup by Application

9.1.6 Key Players

9.1.7 Market Forecast (2026-2034)

9.2 Yeongnam (Southeastern Region)

9.2.1 Overview

9.2.2 Historical and Current Market Trends (2020-2025)

9.2.3 Market Breakup by Technology

9.2.4 Market Breakup by Biomaterial

9.2.5 Market Breakup by Application

9.2.6 Key Players

9.2.7 Market Forecast (2026-2034)

9.3 Honam (Southwestern Region)

9.3.1 Overview

9.3.2 Historical and Current Market Trends (2020-2025)

9.3.3 Market Breakup by Technology

9.3.4 Market Breakup by Biomaterial

9.3.5 Market Breakup by Application

9.3.6 Key Players

9.3.7 Market Forecast (2026-2034)

9.4 Hoseo (Central Region)

9.4.1 Overview

9.4.2 Historical and Current Market Trends (2020-2025)

9.4.3 Market Breakup by Technology

9.4.4 Market Breakup by Biomaterial

9.4.5 Market Breakup by Application

9.4.6 Key Players

9.4.7 Market Forecast (2026-2034)

9.5 Others

9.5.1 Historical and Current Market Trends (2020-2025)

9.5.2 Market Forecast (2026-2034)

10 SOUTH KOREA NEUROMODULATION MARKET – COMPETITIVE LANDSCAPE

10.1 Overview

10.2 Market Structure

10.3 Market Player Positioning

10.4 Top Winning Strategies

10.5 Competitive Dashboard

10.6 Company Evaluation Quadrant

11 PROFILES OF KEY PLAYERS

11.1 Company A

11.1.1 Business Overview

11.1.2 Services Offered

11.1.3 Business Strategies

11.1.4 SWOT Analysis

11.1.5 Major News and Events

11.2 Company B

11.2.1 Business Overview

11.2.2 Services Offered

11.2.3 Business Strategies

11.2.4 SWOT Analysis

11.2.5 Major News and Events

11.3 Company C

11.3.1 Business Overview

11.3.2 Services Offered

- 11.3.3 Business Strategies
- 11.3.4 SWOT Analysis
- 11.3.5 Major News and Events
- 11.4 Company D
 - 11.4.1 Business Overview
 - 11.4.2 Services Offered
 - 11.4.3 Business Strategies
 - 11.4.4 SWOT Analysis
 - 11.4.5 Major News and Events
- 11.5 Company E
 - 11.5.1 Business Overview
 - 11.5.2 Services Offered
 - 11.5.3 Business Strategies
 - 11.5.4 SWOT Analysis
 - 11.5.5 Major News and Events

12 SOUTH KOREA NEUROMODULATION MARKET - INDUSTRY ANALYSIS

- 12.1 Drivers, Restraints, and Opportunities
 - 12.1.1 Overview
 - 12.1.2 Drivers
 - 12.1.3 Restraints
 - 12.1.4 Opportunities
- 12.2 Porters Five Forces Analysis
 - 12.2.1 Overview
 - 12.2.2 Bargaining Power of Buyers
 - 12.2.3 Bargaining Power of Suppliers
 - 12.2.4 Degree of Competition
 - 12.2.5 Threat of New Entrants
 - 12.2.6 Threat of Substitutes
- 12.3 Value Chain Analysis

13 APPENDIX

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